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October 15, 2014

VIA HAND DELIVERY

Mr. Jeff R. Derouen
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602

RECEIVED

OCT 15 2014

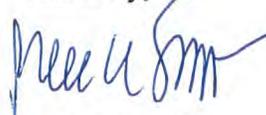
**PUBLIC SERVICE
COMMISSION**

Re: Jessamine-South Elkhorn Water District Notice of Filing

Dear Mr. Derouen:

Delivered under cover of this letter is an original and ten (10) copies of **Jessamine-South Elkhorn Water District's Responses to the Forest Hills Residents' Association, Inc.'s First Requests for Information.**

Sincerely,



Bruce E. Smith

Enclosures

cc: Robert M. Watt, III, Esq. (Via UPS)
Jennifer Black Hans, Esq.(Hand Delivery)

g:\...\JSEWD\Forest Hills\Derouen ltr 101414

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

OCT 15 2014
PUBLIC SERVICE
COMMISSION

In the Matter of:

APPLICATION OF JESSAMINE-SOUTH ELKHORN)
WATER DISTRICT FOR A CERTIFICATE OF)
PUBLIC CONVENIENCE AND NECESSITY TO)
CONSTRUCT AND FINANCE A WATERWORKS) CASE NO 2012-00084
IMPROVEMENTS PROJECT PURSUANT TO KRS)
278.020 AND 278.300

JESSAMINE-SOUTH ELKHORN WATER DISTRICT'S RESPONSES TO FOREST
HILLS RESIDENTS' ASSOCIATION, INC.'S FIRST REQUESTS FOR INFORMATION

VOLUME 1 of 2

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

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OCT 15 2014

PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF JESSAMINE-SOUTH ELKHORN)
WATER DISTRICT FOR A CERTIFICATE OF)
PUBLIC CONVENIENCE AND NECESSITY TO)
CONSTRUCT AND FINANCE A WATERWORKS)
IMPROVEMENTS PROJECT PURSUANT TO KRS)
278.020 AND 278.300)

CASE NO 2012-00084

JESSAMINE-SOUTH ELKHORN WATER DISTRICT'S RESPONSES TO FOREST HILLS RESIDENTS' ASSOCIATION, INC.'S FIRST REQUESTS FOR INFORMATION

Comes the Jessamine-South Elkhorn Water District ("Water District"), by counsel, and for its Responses to the First Requests for Information from the Forest Hills Residents' Association, Inc. ("Forest Hills", or "Residents' Association"), answer as follows:

Facts, documents and things now known may be imperfectly understood and, accordingly, such facts, documents, and things may not be included in the following responses. The Water District reserves the right to reference, discover, or offer into evidence at a later time any and all facts, documents and things notwithstanding the initial responses and objections interposed herein. The Water District also reserves the right to reference, discover, or offer into evidence at a later time any and all facts, documents, and things that it does not presently recall but may recall at some time in the future.

GENERAL OBJECTIONS

1. The Water District objects to Forest Hills' Requests on the grounds that it seeks disclosure of information protected by the attorney-client, work product, and any other applicable privileges. To the extent that The Water District inadvertently discloses information

that may arguably be protected from discovery under attorney-client privilege, the work product doctrine, or any other applicable privilege, such inadvertent disclosure does not constitute a waiver of any such privilege.

2. The Water District objects to Forest Hills' Requests insofar as they seek information concerning matters unrelated to the subject matter of this proceeding, on the grounds that they are overly broad, unduly burdensome, and seek information that is neither relevant to the subject matter of this proceeding nor reasonably calculated to lead to discovery of admissible evidence.

3. The Water District objects to Forest Hills' Requests insofar as they seek confidential proprietary and/or trade secret information of the Water District that, if disclosed, could irreparably harm the Water District. Accordingly, the Water District objects to producing any such information absent entry of an appropriate Protective Order.

4. The Water District objects to Forest Hills' Requests on the grounds that they are not limited in time frame and are overly broad and unduly burdensome because they are more than inclusive of the time period at issue at this case.

5. The Water District objects to Forest Hills' Requests to the extent that they call for information or documents that are not currently in the Water District's possession, custody or control or that are currently filed in the record.

6. The responses set forth below are made without in any manner waiving (1) the right to object to the use of any response for any purpose, in this proceeding or any other action, on the grounds of privilege, relevance, materiality, or any other appropriate grounds; (2) the right to object to any other documents requests involving or relating to the subject matter of the responses herein; and (3) the right to revise, correct, supplement or clarify any of the responses

provided below, at any time.

7. The District objects to the “Instructions” provided by Forest Hills to the extent that such instructions exceed, modify or present additional instructions to those stated by the Commission in its Order of September 26, 2014 or those contained in applicable Commission statutes or regulations.

8. The District further objects generally to Forest Hills’ Requests in that they are overly broad, unduly burdensome and will result in unjustifiable expense and delay in this proceeding. In addition, numerous requests seek information with respect to tangential issues that were already fully explored in Case No. 2012 -00470, the record of which has already been incorporated by reference into this proceeding at the request of the District. The District continues to object to any effort on the part of Forest Hills to relitigate its siting complaint, which the PSC has already determined in Case No. 2012-00470 is not a primary issue in a water tank CPCN application. The requests are also objectionable to the extent that they seek compilations of lists of privileged communications, and seek masses of documents without sufficiently identifying the nature of the documents sought or the purpose of the request with respect to this application.

The General Objections are applicable to each and every one of the following responses and objections, and failure to repeat an objection in response to a specific request shall not be deemed a waiver of the objection. Further, when The Water District specifically repeats one or more of these General Objections in response to a specific request, such specific request cannot be a waiver of these General Objections.

Subject to and without waiving these General Objections, and subject to and without waiving the specific objections noted below, the Water District responds as follows to Forest

Hills' Requests for Information in accordance with the Water District's understanding of the fair meaning of those Requests. The respondent or witness for each Response will be shown in bold-faced type following the Response or that portion of the Response for which the individual is responsible.

RESPONSES TO REQUESTS FOLLOW ON THE NEXT PAGE

Jessamine-South Elkhorn Water District

Information Request No. 1: Please provide a copy of any and all analyses, studies, reports or other documents that analyze or review the selection of the proposed site for the water tank and any and all alternative sites considered not previously produced in Case No. 2012-00470.

Answer: The District objects to being required to conduct any further review of the proposed site for this proposed water tank. See the District's Response of September 16, 2014 to Forest Hills' Request for a hearing, and the voluminous record already created in Case No. 2012-00470 on siting and related issues, in which Forest Hills was afforded an unlimited opportunity to present all of its objections to the site proposed in this application. See also General Objections.

[Applicant's Counsel]

Notwithstanding the foregoing objection, none.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 2: Please provide all paper correspondence, e-mails or other documentation not previously produced in Case No. 2012-00470 in the possession of the District, John Horne, Christopher Horne, Nick Strong, Dallam B. Harper, Jr., or William Berkley, Jr., that relates in any way to the storage of water or the decision to construct a water storage tank on the site proposed in this proceeding.

Answer: **Objection. This request is unduly broad and burdensome. The request seeks production of any document in possession of these individuals with respect to the “storage of water”, without any limitation or relation to any issue before the Commission in this particular application. Further, the tangential siting issue sought to be re-explored by Forest Hills was fully developed in Case No. 2012-00470, the record of which has been incorporated by reference into this proceeding at the request of the District. The Application and subsequent filings contains extensive documentation and testimony with respect to this Application. See also General Objections and Response to Question 1, above. Notwithstanding the Objections, see the attached.**

[Applicant’s Counsel, John G. Horne and L. Nicholas Strong]

4049

Thacker, Judy

From: jessaminesouth@windstream.net
Sent: Wednesday, July 23, 2014 8:06 AM
To: judy@horneeng.com
Subject: plans

All I got was the letter. No signed plans.

Spoke w/ Lusia - not been sent she's to
email me when she's sent them

Horne, Christopher

From: Doss, Lissa (EEC) <Lissa.Doss@ky.gov>
Sent: Wednesday, June 11, 2014 9:49 AM
To: 'christopher@horneeng.com'
Cc: 'jessaminesouth@windstream.net'; Sarabi, Fred (EEC)
Subject: AI#33936-Jessamine S Elkhorn Water District-Catnip Hill Pike 750,000 Gallon Elevated Storage Tank-Project Assigned

FILE COPY

Good Morning Mr. Horne,

We received the above named submittal and it has been assigned today to Fred Sarabi at extension 4825 or email Fred.Sarabi@ky.gov . If you have any questions please call or email us anytime.

Thank you and have a nice day.
Lissa

Lissa Doss

Division of Water
Water Infrastructure Branch
Engineering Section
200 Fair Oaks Lane
4th Floor
Frankfort, KY 40601
502-564-3410 ext. 4801

Horne, John

From: Horne, John <john@horneeng.com>
Sent: Friday, March 28, 2014 1:04 PM
Subject: Bruce Smith (bsmith@smithlawoffice.net); Nick Strong (nickocis@aol.com)
FW: Catnip Hill Tank Project - WX21113016, 229N-2008

See emails below.

John G. Horne
Horne Engineering, Inc.
216 S. Main Street
Nicholasville, KY 40356
859-885-9441

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND PROHIBITED FROM DISCLOSURE UNDER APPLICABLE LAW. If the reader of this message is not the intended recipient or is not the employee of agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, forwarding or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by e-mail or telephone and DELETE the original message immediately. Thank you for your cooperation.

From: Milton, Debby (KIA) [mailto:Debby.Milton@ky.gov]
Sent: Friday, March 28, 2014 10:48 AM
To: john@horneeng.com
Subject: RE: Catnip Hill Tank Project - WX21113016, 229N-2008

Yes, CH is required. Contact Lee Nalley at 502-573-2382 or email her, see below, to see if you can amend the current view (KY20070813-1128) or if a new one is required. Thanks.

Lee.Nalley@ky.gov

From: Horne, John [mailto:john@horneeng.com]
Sent: Friday, March 28, 2014 10:40 AM
To: Milton, Debby (KIA)
Subject: RE: Catnip Hill Tank Project - WX21113016, 229N-2008

Debby:

PSC approval request for CPCN for the 1.0 million gallon tank was denied and now requires resizing to 750,000 gallon. The Clearinghouse approval has expired, which requires a new application. However, the question now arises as to whether or not Clearinghouse approval is even needed for this project

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From: Milton, Debby (KIA) [mailto:Debby.Milton@ky.gov]
Sent: Friday, March 28, 2014 10:03 AM

To: john@horneeng.com

Subject: RE: Catnip Hill Tank Project - v\X21113016, 229N-2008

John:

.m showing this project has been through clearinghouse. You may now request up to 50% of planning and design. Once you submit the as-bid budget you may request remaining funds. Please include back-up invoices with all requests. Thanks.

From: Horne, John [<mailto:john@horneeng.com>]

Sent: Friday, March 28, 2014 9:50 AM

To: Milton, Debby (KIA)

Subject: Catnip Hill Tank Project - WX21113016, 229N-2008

Debbie:

Please advise if State Clearinghouse approval is required for you to release legislative grant funds for this project.

John G. Horne

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216 S. Main Street
Nicholasville, KY 40356
859-885-9441

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To: john@horneeng.com
Subject: RE: Catnip Hill Tank Project - WX21113016, 229N-2008

email to Bruce & Nick

Yes, CH is required. Contact Lee Nalley at 502-573-2382 or email her, see below, to see if you can amend the current review (KY20070813-1128) or if a new one is required. Thanks.

Lee.Nalley@ky.gov

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Subject: RE: Catnip Hill Tank Project - WX21113016, 229N-2008

John:

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Subject: Catnip Hill Tank Project - WX21113016, 229N-2008

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John G. Horne

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Horne Engineering, Inc.

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ENGINEERS • LAND SURVEYORS • PLANNERS
email@homeeng.com

MEMORANDUM

To: Board of Commissioners
Jessamine South Elkhorn Water District

From: John G. Horne, PE, PLS
Consulting Engineer

Date: March 27, 2014

Subject: Catnip Hill Pike, Elevated Storage Tank, Northwest Service Area, Jessamine-South Elkhorn Water District

On March 24, 2014, the Public Service Commission (PSC) issued two (2) orders, a copy of each is enclosed. One order was to grant the full intervention by the Attorney General via the Office of Rate Intervention.

The other was in response to the District's application for an elevated storage tank. Bruce and Nick may have had recent contact with the PSC or other parties and may possibly be able to furnish additional insight. However, to my untrained eye, it appears to be PSC's position that in the future they might approve a 750,000 gallon tank, as stipulated by paragraph 7, page 5, which states:

"The Application tendered by JSEWD on March 7, 2014, shall not be considered filed until JSEWD files the plans and specifications, copies of permits, and specific financing arrangements, including the amount of anticipated grants and the anticipated amount of issuance of indebtedness to support its request to construction a 750,000-gallon elevated water storage tank."

Accordingly, I have attempted to outline the various sequential steps, from present through contract signing, that will be required for a project of this nature.

- Project Profile
- 409 Council Approval - April 25, 2014
- State Clearinghouse
- Archeological Survey
- Biological Survey
- FAA Permit
- KYTC Entrance Permit
- Geotechnical Survey

- Plans/Specifications
- Kentucky Division of Water Approval
- Passage of 2014 Budget
- KRWFC Financing Plan
- Wage Rates
- PSC - CPCN
- KIA Authorization to Bid
- Bid Advertisement
- Receipt of Bids
- KIA Authorization to Award
- KRWFC Bond Sale
- Contract Award
- Contract and Bonds

Although the PSC order is not point specific, I am of the assumption that the financing plan is to be based on an estimate of construction cost and not actual bids. This is important insofar as the time frame for the above list is at a minimum of six (6) months.

However, anticipating that this project was going to proceed in some manner, we submitted an amended Project Profile for a 750,000 gallon tank to the Bluegrass Water Management (409) Council, shortly after Bruce filed the PSC application. One of the impetuses for filing the amended Project Profile was to allow us to file the State Clearinghouse Application for this project. The Clearinghouse application procedure takes several months and must receive a sign-off before KIA will authorize bidding.

The amended Project Profile has been amended at the BGADD level. However, BGADD must forward this document to KIA for them to enter onto the WRIS data base before the State Clearinghouse will accept applications. We anticipate that this will occur this week and our filing the State Clearinghouse the first week of April. Judy has been in close contact and coordination with the Director and we are hopeful that it can be expedited. Regarding plans and specifications, we are confident we can have documents sufficient for Kentucky Division of Water review by early May.

JGH/jt

enc.

cc: Glenn T. Smith
Richard Decker
Diana Clark
Bruce E. Smith
Engr/4049
Engr/4044
Corr.

Q:\ProjectDir\Jsewd\WO4049\JSEWD-BOC,PSC-Orders.mem

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF JESSAMINE-SOUTH)	
ELKHORN WATER DISTRICT FOR A)	CASE NO.
CERTIFICATE OF PUBLIC CONVENIENCE AND)	2014-00084
NECESSITY TO CONSTRUCT AND FINANCE A)	
WATERWORKS IMPROVEMENT PROJECT)	
PURSUANT TO KRS 278.020 AND 278.300)	

ORDER

On March 7, 2014, Jessamine-South Elkhorn Water District ("JSEWD") tendered an Application for a Certificate of Public Convenience and Necessity ("CPCN") and approval of financing arrangements for construction of a 750,000-gallon elevated water storage tank and related appurtenances, or in the alternative, a 500,000-gallon elevated water storage tank. The Attorney General of the Commonwealth of Kentucky has intervened.

JSEWD requested that the record of Case No. 2012-00470¹ be incorporated into this case. In Case No. 2012-00470, the Commission found that JSEWD failed to demonstrate the need for a million-gallon water storage tank and denied JSEWD's application for a CPCN.²

Pursuant to 807 KAR 5:001, Section 22, JSEWD requested a deviation from the application requirements that it file plans and specifications for the proposed

¹ Case No. 2012-00470, *Application of Jessamine-South Elkhorn Water District for a Certificate of Public Convenience and Necessity to Construct and Finance a Waterworks Improvements Project pursuant to KRS 278.020 and 278.300* (filed Oct. 26, 2012).

² Case No. 2012-00470 (KY. PSC Apr. 30, 2013).

construction,³ copies of permits,⁴ and specific financing arrangements.⁵ JSEWD also requested that it not be required to file financial data for a 12-month period ending within 90 days of the filing of the application.⁶

A utility having less than \$5,000,000 in gross annual revenues is no longer required to provide financial data for a 12-month period ending within 90 days of the filing of the application if the utility's most recent annual report is on file with the Commission, and the application contains information regarding any changes that have occurred since the period covered in the annual report.⁷ For the calendar year ending December 31, 2012, JSEWD had total operating revenues of \$2,322,318.⁸ JSEWD stated in its Application that there has been no material change in its financial condition or operation since December 31, 2012.⁹

In support of its request for deviation from the requirement to file plans and specifications, copies of permits, and specific financing arrangements, JSEWD contends that a 750,000-gallon elevated water storage tank is justified. Should the Commission determine that JSEWD failed to demonstrate the need for a 750,000-gallon elevated water storage tank, JSEWD has proposed an alternative in its Application for a 500,000-gallon elevated water storage tank. JSEWD contends it will prepare and file

³ Required by 807 KAR 5:001, Section 15(2)(c), and 807 KAR 5:001, Section 15(2)(d).

⁴ Required by 807 KAR 5:001, Section 15(2)(b).

⁵ Required by 807 KAR 5:001, Section 18.

⁶ Application at 6.

⁷ 807 KAR 5:001, Section 12(1)(b).

⁸ Annual Report of Jessamine-South Elkhorn Water District (Water Division) to the Kentucky Public Service Commission for the Year Ended December 31, 2012 at 11.

⁹ Application at 6.

the plans and specifications, copies of permits, and specific financing arrangements once the Commission approves either the 750,000- or 500,000-gallon elevated water storage tank.

JSEWD states that preparing plans and specifications and specific financing arrangements for both a 750,000-gallon elevated water storage tank and a 500,000-gallon elevated water storage tank would be unnecessarily expensive. To obtain the necessary permits from the various public authorities, JSEWD has to submit plans and specifications. Specific financing arrangements cannot be provided until JSEWD knows the size of the water tank that will be constructed.

JSEWD has the obligation and burden to prove its infrastructure needs. JSEWD needs to show that a 750,000-gallon elevated water storage tank is needed and will not result in excessive or wasteful investment.¹⁰ Additionally, JSEWD needs to provide plans and specifications, copies of permits, and specific financing arrangements for a 750,000-gallon elevated water storage tank.

The Commission's role is to review all evidence submitted in a case and make a determination based on that evidence. JSEWD requests the Commission make a determination prior to submission of relevant and required evidence by JSEWD. The Commission cannot make a decision based on an application that proposes alternative project proposals that have not been fully developed and fail to meet the Commission's minimum filing requirements.

¹⁰ *Kentucky Utilities Co. v. Pub. Ser. Com'n*, 252 S.W.2d 885 (Ky. 1952).

Having considered JSEWD's requests, the Commission finds that:

1. JSEWD's request to incorporate the record of Case No. 2012-00470 into this case should be granted.

2. JSEWD is not required to submit a financial exhibit covering a 12-month period ending not more than 90 days prior to the date the application is filed.

3. JSEWD's deviation request to delay filing of plans and specifications until the Commission issues a determination regarding the appropriate size of the elevated water storage tank should be denied.

4. JSEWD's deviation request to delay filing copies of permits until the Commission issues a determination regarding the appropriate size of the elevated water storage tank should be denied.

5. JSEWD's deviation request to delay filing specific financing arrangements until the Commission issues a determination regarding the appropriate size of the elevated water storage tank should be denied.

6. To the extent that JSEWD has requested the Commission issue a determination of the appropriate size of the elevated water storage tank prior to submission of required documents, that request should be denied.

7. Based on JSEWD's belief that their infrastructure requirements support the need for a 750,000-gallon elevated water storage tank, JSEWD should submit plans and specifications, copies of permits, and specific financing arrangements, including the amount of anticipated grants and anticipated amount of issuance of indebtedness, for a 750,000-gallon elevated water storage tank.

IT IS THEREFORE ORDERED that:

1. JSEWD's request to incorporate the record of Case No. 2012-00470 into this case is granted.

2. JSEWD's request for a deviation from the requirement to submit a financial exhibit covering a 12-month period ending not more than 90 days prior to the date the application is filed is denied as moot.

3. JSEWD's request for a deviation from filing plans and specifications until the Commission issues a determination regarding the appropriate size of the elevated water storage tank is denied.

4. JSEWD's request for a deviation from filing copies of permits until the Commission issues a determination regarding the appropriate size of the elevated water storage tank is denied.

5. JSEWD's request for a deviation from filing specific financing arrangements until the Commission issues a determination regarding the appropriate size of the elevated water storage tank is denied.

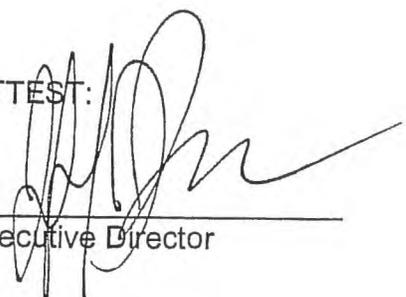
6. To the extent that JSEWD has requested the Commission to issue a determination regarding the appropriate size of the elevated water storage tank, that request is denied.

7. The Application tendered by JSEWD on March 7, 2014, shall not be considered filed until JSEWD files the plans and specifications, copies of permits, and specific financing arrangements, including the amount of anticipated grants and the anticipated amount of issuance of indebtedness to support its request to construct a 750,000-gallon elevated water storage tank.

By the Commission

ENTERED
MAR 24 2014
KENTUCKY PUBLIC
SERVICE COMMISSION

ATTEST:



Executive Director

Case No. 2014-00084

Jennifer B Hans
Assistant Attorney General's Office
1024 Capital Center Drive, Ste 200
Frankfort, KENTUCKY 40601-8204

Bruce E Smith
201 South Main Street
Nicholasville, KENTUCKY 40356

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

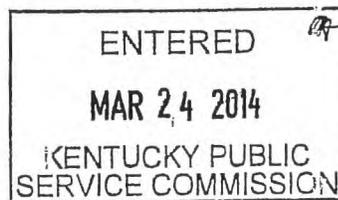
APPLICATION OF JESSAMINE-SOUTH)
ELKHORN WATER DISTRICT FOR A)
CERTIFICATE OF PUBLIC CONVENIENCE AND) CASE NO.
NECESSITY TO CONSTRUCT AND FINANCE A) 2014-00084
WATERWORKS IMPROVEMENT PROJECT)
PURSUANT TO KRS 278.020 AND 278.300)

ORDER

This matter arises upon the motion of the Attorney General of the Commonwealth of Kentucky, by and through his Office of Rate Intervention ("Attorney General"), filed March 17, 2014, pursuant to KRS 367.150(8), for full intervention. Such intervention is authorized by statute. The Commission, being otherwise sufficiently advised, finds that the motion should be granted.

IT IS HEREBY ORDERED that the motion is granted, and the Attorney General is hereby made a party to these proceedings.

By the Commission:



ATTEST:



Executive Director

Jennifer B Hans
Assistant Attorney General's Office
1024 Capital Center Drive, Ste 200
Frankfort, KENTUCKY 40601-8204

Bruce E Smith
201 South Main Street
Nicholasville, KENTUCKY 40356

Horne, John

From: Nalley, Lee (DLG) <Lee.Nalley@ky.gov>
Sent: Tuesday, February 11, 2014 2:07 PM
To: 'bruce@smithlawoffice.net'; 'john@horneeng.com'
Subject: KY201104270603, WX21113016

FILE COPY
3569 + 4049

Bruce, This project because of the age in the eclearinghouse and the change of the size of the tank will have to be put back into the eclearinghouse.

John, you will need to withdraw this from the eclearinghouse and then call the Area Development District and make the changes in the WRIS Project Profile. Then you can put it back into the ech for a new review.

If you have any questions please give me a call. Thanks, Lee

Ms. Lee Nalley
Department for Local Government
Office of the Governor
KY State Clearinghouse, Office of Federal Grants
1024 Capital Center Dr., Suite 340
Frankfort, KY 40601
(502)573-2382 ext. 274
FAX (502)573-1519
<https://eclearinghouse.ky.gov/>

Horne Engineering, Inc.

216 SOUTH MAIN STREET • NICHOLASVILLE, KENTUCKY 40356

PH. (859)885-9441 • FAX (859)885-5160

email@horneeng.com



ENGINEERS
LAND SURVEYORS
PLANNERS

July 25, 2014

Bruce Smith
Bruce E. Smith Law Office, PLLC
201 S. Main Street
Nicholasville, KY 40356

Re: Catnip Hill Pike 750,000 Gallon
Elevated Storage Tank
Approvals/Permits
Jessamine South Elkhorn Water District

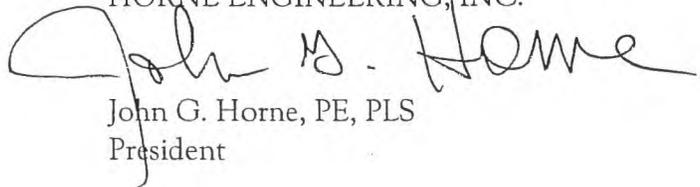
Dear Bruce:

Enclosed please find the following permits and/or approvals required for the subject project.

- KDOW Approval Letter and Plans - AI# 33936
- Kentucky State Clearing House with Kentucky Heritage Council Approval - SAI# KY20140407-0323
- KYTC Permit - Jessamine County RS 057-3375-000.847
- FAA Aeronautical No. 2014-ASO-3798-OE
- Technical Specifications with stamped and signed plans

Should you have any questions, comments, or need any further information, please contact me at (859) 885-9441.

Sincerely,
HORNE ENGINEERING, INC.



John G. Horne, PE, PLS
President

JGH/jt
enc.

cc: Board of Commissioners
Glenn T. Smith
Richard Decker
Diana Clark

Engr/4049
Engr/4044
Corr.



Thacker, Judy

From: Doss, Lissa (EEC) <Lissa.Doss@ky.gov>
Sent: Friday, July 18, 2014 9:28 AM
To: 'jessaminesouth@windstream.net'; 'christopher@horneeng.com'; 'judy@horneeng.com'
Subject: Approval letter for AI#33936-Catnip Hill Pike Tank
Attachments: AI#33936-Approval.pdf

Good Morning,
Hard copies will be mailed out today.
Thanks and have a nice weekend.
Lissa

Lissa Doss

LISSA DOSS
ENGINEERING SECTION
WATER INFRASTRUCTURE BRANCH
DIVISION OF WATER
200 FAIR OAKS LANE
4TH FLOOR
FRANKFORT, KY 40601
502-564-3410 EXT. 4801
LISSA.DOSS@KY.GOV

FILE COPY
4049
&
4044

STEVEN L. BESHEAR
GOVERNOR



LEONARD K. PETERS
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
200 FAIR OAKS LANE, 4TH FLOOR
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

July 17, 2014

Mr. Glenn Smith
Jessamine S Elkhorn Water District
802 S Main St
Nicholasville, KY 40356

RE: Jessamine S Elkhorn Water District
AI # 33936, APE20140001
PWSID # 0570249-14-001
Catnip Hill Pike 750,000 Gallon Elevated
Storage Tank
Jessamine County, KY

Dear Mr. Smith:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of a 750,000 Drinking Water Elevated Storage Tank and approximately 90 linear ft of 12-inch PVC water line. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

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

Sincerely,

A handwritten signature in cursive script that reads "Mark Rasche".

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

MR:FS

Enclosures

C: Horne Engineering
Jessamine County Health Department
Public Service Commission (by e-mail only)
Division of Plumbing (by e-mail only)

Horne, John

From: jessaminesouth@windstream.net
Sent: Tuesday, February 25, 2014 12:32 PM
: John@HorneEng.com
Subject: water loss

2006 8.3%
2007 9.7%
2008 14.7%
2009 20.3%
2010 16.8%
2011 20.7%
2012 14.1%
2013 10.2%

This is what I can get to right now. Is this enough? If you need further back, I have to go to paper copies and do some digging in boxes. These are NW totals.

Mon 2008

Thacker, Judy

Subject: JT - Clearinghouse letter - Catnip Tank # 3569 Expires March 4, 2014 Will have to be withdrawn and resubmitted per Lee Nalley
Location: KIA
Start: Wed 2/26/2014 8:00 AM
End: Wed 2/26/2014 8:30 AM
Recurrence: (none)
Organizer: Thacker, Judy

March 4, 2013 email from Lee says cannot be renewed again, must be withdrawn and resubmitted.

Horne, Christopher

From: Kristen Millard [kristen.millard@RaymondJames.com]
Sent: Tuesday, February 25, 2014 11:47 AM
To: christopher@horneeng.com
Cc: Andy Lange
Subject: RE: Jessamine South Elkhorn
Attachments: Jessamine S Elkhorn 20 2.25.14.XLS; Jessamine S Elkhorn 25 2.25.14.XLS; Jessamine S Elkhorn 30 2.25.14.XLS

Hi Christopher, Since you have a variety of options, I just used the \$1,675,000. The average rates and debt service will depend on how long JSE wants to take out the debt, so I attached numbers for a 20, 25 and 30 year term. Also, open market bonds have ascending rates, but I've listed the average rates for each term below. Feel free to call or email me with any questions. When do you think that funding will be needed?

20: 4.12%
 25: 4.38%
 30: 4.60%

Kristen Millard
 First Vice President

Public Finance
 T: 859.232.8249 F: 859.232.8255
 489 East Main Street, Lexington KY 40507

From: Horne, Christopher [mailto:christopher@horneeng.com]
Sent: Tuesday, February 25, 2014 9:57 AM
To: Kristen Millard
Subject: RE: Jessamine South Elkhorn

Kristen,

I need to do some present worth analysis on various alternatives and I am not yet sure which alternatives I will need to consider. So I am including the budget prices for various sized tanks as provided by Caldwell Tanks below. What I need is an interest rate for the PW analysis.

1,000,000 Gallon 70.0' diameter x 38.75' operating head range = \$1,675,000
 750,000 Gallon 60.0' diameter x 38.75' operating head range = \$1,350,000
 500,000 Gallon 50.0' diameter x 37.00' operating head range = \$1,025,000
 400,000 Gallon 50.0' diameter x 30.00' operating head range = \$ 925,000
 250,000 Gallon 43.0' diameter x 25.5' operating head range = \$775,000

The Project Profile currently listed with the KIA is for a 1 million gallon tank and shows project expenses in addition to construction as \$567K. Let me know if you need anything else. Thanks for your quick response, we are under a deadline.

Christopher Horne
 Horne Engineering

Net Present Value Initial Construction and Major Repaint Operations

Input:

Date: **2/26/2014**
 Job Name: **Jessamine County, KY**
 Capacity: **250,000** gallons
 Style: **Multi-Column**
 Initial Cost: **\$ 775,000**

Surface Areas	Surface Area	Repaint Cost	Coating Life
	(sf)	(\$/sf)	Expectency (yrs)
Interior Wet	8,000	7.00	15
Interior Dry	0	7.00	15
Topcoat Only		2.75	
Exterior	15,000	6.50	15
Topcoat Only		2.75	

Interest Rates
 Inflation: **3.00%**
 Discount: **5.00%**

Output:

Interior Wet

Year	Activity	Future Value	Net Present Value
15	Full Repaint	\$ 87,246	\$ 41,967
30	Full Repaint	\$ 135,927	\$ 31,450
45	Full Repaint	\$ 211,769	\$ 23,569
60	Full Repaint	\$ 329,930	\$ 17,663
TOTAL			\$ 114,649

Interior Dry

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ -	\$ -
30	Full Repaint	\$ -	\$ -
45	Topcoat	\$ -	\$ -
60	Full Repaint	\$ -	\$ -
TOTAL			\$ -

Exterior

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ 64,266	\$ 30,913
30	Full Repaint	\$ 236,658	\$ 54,757
45	Topcoat	\$ 155,991	\$ 17,361
60	Full Repaint	\$ 574,431	\$ 30,752
TOTAL			\$ 133,784

Initial Cost \$ 775,000
 NPV Repaint \$ 248,434

Total \$ 1,023,434

The information above summarizes the Net Present Value of initial construction and major repaint operations over a 60 year period. The cycles are based on the "Expected Service Life" document produced by KTA-Tator, Inc. over a 60 year period.

Notes: (\$/sf) values are entered as a budget price in 2014 dollars; routine maintenance and inspection is not included in this amount though should not vary widely based on the tank style; changing coatings life expectancy or interest rates (both inflation and discount) would have a significant impact.

Net Present Value Initial Construction and Major Repaint Operations

Input:

Date: **2/26/2014**
 Job Name: **Jessamine County, KY**
 Capacity: **400,000** gallons
 Style: **Multi-Column**
 Initial Cost: **\$ 925,000**

Surface Areas	Surface Area (sf)	Repaint Cost (\$/sf)	Coating Life Expectency (yrs)
Interior Wet	10,000	7.00	15
Interior Dry	0	7.00	15
Topcoat Only		2.75	
Exterior	19,000	6.50	15
Topcoat Only		2.75	

Interest Rates
 Inflation: **3.00%**
 Discount: **5.00%**

Output:

Interior Wet

Year	Activity	Future Value	Net Present Value
15	Full Repaint	\$ 109,058	\$ 52,459
30	Full Repaint	\$ 169,908	\$ 39,313
45	Full Repaint	\$ 264,712	\$ 29,461
60	Full Repaint	\$ 412,412	\$ 22,079
TOTAL			\$ 143,312

Interior Dry

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ -	\$ -
30	Full Repaint	\$ -	\$ -
45	Topcoat	\$ -	\$ -
60	Full Repaint	\$ -	\$ -
TOTAL			\$ -

Exterior

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ 81,404	\$ 39,157
30	Full Repaint	\$ 299,767	\$ 69,359
45	Topcoat	\$ 197,588	\$ 21,991
60	Full Repaint	\$ 727,613	\$ 38,953
TOTAL			\$ 169,460

Initial Cost \$ 925,000
 NPV Repaint \$ 312,772

Total \$ 1,237,772

The information above summarizes the Net Present Value of initial construction and major repaint operations over a 60 year period. The cycles are based on the "Expected Service Life" document produced by KTA-Tator, Inc. over a 60 year period.

Notes: (\$/sf) values are entered as a budget price in 2014 dollars; routine maintenance and inspection is not included in this analysis though should not vary widely based on the tank style; changing coatings life expectancy or interest rates (both inflation and discount) would have a significant impact.

Net Present Value Initial Construction and Major Repaint Operations

Input:

Date: 2/26/2014
 Job Name: Jessamine County, KY
 Capacity: 500,000 gallons
 Style: Multi-Column
 Initial Cost: \$ 1,025,000

Surface Areas	Surface Area (sf)	Repaint Cost (\$/sf)	Coating Life Expectancy (yrs)
Interior Wet	11,000	7.00	15
Interior Dry	0	7.00	15
Topcoat Only		2.75	
Exterior	21,000	6.50	15
Topcoat Only		2.75	

Interest Rates
 Inflation: 3.00%
 Discount: 5.00%

Output:

Interior Wet

Year	Activity	Future Value	Net Present Value
15	Full Repaint	\$ 119,963	\$ 57,704
30	Full Repaint	\$ 186,899	\$ 43,244
45	Full Repaint	\$ 291,183	\$ 32,408
60	Full Repaint	\$ 453,653	\$ 24,287
TOTAL			\$ 157,643

Interior Dry

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ -	\$ -
30	Full Repaint	\$ -	\$ -
45	Topcoat	\$ -	\$ -
60	Full Repaint	\$ -	\$ -
TOTAL			\$ -

Exterior

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ 89,973	\$ 43,278
30	Full Repaint	\$ 331,321	\$ 76,660
45	Topcoat	\$ 218,387	\$ 24,306
60	Full Repaint	\$ 804,204	\$ 43,053
TOTAL			\$ 187,298

Initial Cost \$ 1,025,000
 NPV Repaint \$ 344,941

Total \$ 1,369,941

The information above summarizes the Net Present Value of initial construction and major repaint operations over a 60 year period. The cycles are based on the "Expected Service Life" document produced by KTA-Tator, Inc. over a 60 year period.

Notes: (\$/sf) values are entered as a budget price in 2014 dollars; routine maintenance and inspection is not included in this analysis though should not vary widely based on the tank style; changing coatings life expectancy or interest rates (both inflation and discount) would have a significant impact.

Net Present Value Initial Construction and Major Repaint Operations

Input:

Date: 2/26/2014
 Job Name: Jessamine County, KY
 Capacity: 750,000 gallons
 Style: Multi-Column
 Initial Cost: \$ 1,350,000

Surface Areas	Surface Area (sf)	Repaint Cost (\$/sf)	Coating Life Expectency (yrs)
Interior Wet	14,000	7.00	15
Interior Dry	0	7.00	15
Topcoat Only		2.75	
Exterior	26,000	6.50	15
Topcoat Only		2.75	

Interest Rates
 Inflation: 3.00%
 Discount: 5.00%

Output:

Interior Wet

Year	Activity	Future Value	Net Present Value
15	Full Repaint	\$ 152,681	\$ 73,442
30	Full Repaint	\$ 237,872	\$ 55,038
45	Full Repaint	\$ 370,596	\$ 41,246
60	Full Repaint	\$ 577,377	\$ 30,910
TOTAL			\$ 200,637

Interior Dry

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ -	\$ -
30	Full Repaint	\$ -	\$ -
45	Topcoat	\$ -	\$ -
60	Full Repaint	\$ -	\$ -
TOTAL			\$ -

Exterior

Year	Activity	Future Value	Net Present Value
15	Topcoat	\$ 111,395	\$ 53,583
30	Full Repaint	\$ 410,207	\$ 94,913
45	Topcoat	\$ 270,384	\$ 30,093
60	Full Repaint	\$ 995,681	\$ 53,304
TOTAL			\$ 231,893

Initial Cost \$ 1,350,000
 NPV Repaint \$ 432,529

Total **\$ 1,782,529**

The information above summarizes the Net Present Value of initial construction and major repaint operations over a 60 year period. The cycles are based on the "Expected Service Life" document produced by KTA-Tator, Inc. over a 60 year period.

Notes: (\$/sf) values are entered as a budget price in 2014 dollars; routine maintenance and inspection is not included in this analysis though should not vary widely based on the tank style; changing coatings life expectancy or interest rates (both inflation and discount) would have a significant impact.

Horne, John

From: Rusty Spangler <rspangler@caldwelltanks.com>
Sent: Friday, February 14, 2014 3:10 PM
To: john@horneeng.com
Subject: Jessamine-South Elkhorn Water District, KY

FILE COPY

Good afternoon Mr. Horne. I appreciate the call today and the opportunity to talk with you about the Jessamine-South Elkhorn Water District elevated tank.

I am happy to provide updated budget pricing on the proposed elevated tank that original bid in July of 2012. Our budget pricing is assuming the same scope of work as originally detailed in the project plans and specifications. As requested, we have also provided budget pricing on alternate tank capacities. The pricing below is based on a Multi-Column style elevated tank with a high water elevation of 148' as measured from top of tank foundation. If alternate tank styles are considered, please advise and we will be happy to provide.

1,000,000 Gallon 70.0' diameter x 38.75' operating head range = \$1,675,000
750,000 Gallon 60.0' diameter x 38.75' operating head range = \$1,350,000
500,000 Gallon 50.0' diameter x 37.00' operating head range = \$1,025,000
400,000 Gallon 50.0' diameter x 30.00' operating head range = \$ 925,000

As I mentioned in our phone conversation, I will be happy to meet with you and the water district if I can be of any help.

Again, thank you for the call. It was a pleasure to talk with you again.

Rusty

C. R. Spangler
Sales Manager - Water Division



Caldwell Tanks, Inc.
4000 Tower Road
Louisville, KY 40219
(502) 964-3361
(502) 810-0963 {Fax to my inbox}
(502) 966-8732 {FAX to Louisville, KY Office}
rspangler@CaldwellTanks.com

www.caldwellwatertanks.com
www.caldwell1887.com

Jessamine-South Elkhorn Water District

Information Request No. 3: Please provide all economic studies that support the decision to build the proposed water storage tank on the site proposed in this proceeding. If none exist, explain why not.

Answer: See General Objections and Response to Question 1 above, including Objection. Notwithstanding the Objections, there are no studies other than those already filed in the record. As to an explanation why no such studies exist, see Objections.

[Applicant's Counsel and John G. Horne]

Jessamine-South Elkhorn Water District

Information Request No. 4: Please provide all responses to any RFPs; all requests for bids; and all bids received for the construction of a water storage tank at the site proposed in this proceeding. If no RFPs were issued and/or no bids were requested and/or received, explain why not.

Answer: None. RFPs and bids unnecessary at this point in the application process. Same will be submitted when required by the PSC.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 5: Please list each and every potential site the District considered and rejected for the water tank proposed in this proceeding since September 22, 2013.

For each site, please provide:

(a) A map showing the location of the potential site. If a map is unavailable, provide the address of the site or other description so as to permit reasonable identification of the location;

(b) All documents on which the District relied in evaluating and/or considering each site; and

(c) All documents the District provided to or received from Horne Engineering, Inc. or any other person or entity providing engineering or consulting services with regard to each site.

Answer: For each question, see **General Objections and Response to Question 1** above, including Objection. Notwithstanding the objections, not applicable.

[Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 6: For each potential site identified in response to Data Request No. 5, please provide a detailed explanation as to why it was not selected and/or deemed unacceptable.

Answer: See General Objections and Response to Question 1 above, including Objection. Notwithstanding the objections, not applicable.

[Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 7: Please produce all documents not previously produced in Case No. 2012-00470 containing or relating to communications by representatives of the District with property owners affected by the water tank proposed in this proceeding, including residents of Forest Hills subdivision.

Answer: See objection to Request No. 1 above, including Objection and the General Objections. Notwithstanding these objections, see attached documents.

[John G. Horne and Applicant's Counsel]

PHONE CALL

FOR Christopher DATE 4-21-14 TIME 10:16 ^{A.M.} P.M.

M Jo

OF JCHD

PHONE 885 4149 CELL 1010

MESSAGE Are you attending tomorrow's Pkg Health meeting?

SIGNED J

TELEPHONED

RETURNED YOUR CALL

PLEASE CALL

WILL CALL AGAIN

CAME TO SEE YOU

WANTS TO SEE YOU

PHONE CALL

FOR John DATE 4-21-14 TIME 2:37 ^{A.M.} P.M.

M Mike Haley 505 Burn Oak Dr

OF Lewis in Forest Hills

PHONE 859-333-1965 CELL

MESSAGE When will tank construction begin to rezone with the other residents -

SIGNED J

TELEPHONED

RETURNED YOUR CALL

PLEASE CALL

WILL CALL AGAIN

CAME TO SEE YOU

WANTS TO SEE YOU

PHONE CALL

FOR Christopher DATE 4-21-14 TIME 3:40 ^{A.M.} P.M.

M Mike Atkins

OF Bldg Insp.

PHONE 885 09385 CELL

MESSAGE Storage facility on Virginia Ave

SIGNED J

TELEPHONED

RETURNED YOUR CALL

PLEASE CALL

WILL CALL AGAIN

CAME TO SEE YOU

WANTS TO SEE YOU

PHONE CALL

4/22/14 on Mack 500 pm

FOR Christopher DATE 4-23-14 TIME 7:32 ^{A.M.} P.M.

M Brent Owen

OF

PHONE CELL

MESSAGE Will try tomorrow (today)

SIGNED

TELEPHONED

RETURNED YOUR CALL

PLEASE CALL

WILL CALL AGAIN

CAME TO SEE YOU

Mike Haley
505 Burr Oak

859-333-1985

1. Meeting last week - to proceed
and he fought against but was
overruled by the Board.
2. He wanted some definite statement
that it was going to happen. I
responded not qualified to make that
response. But common sense tells
you that District was going to
back down.
3. Was not able to give him a definite
time table - Explained PSC has not
set a schedule.
4. He exhibit strong resentment that
the Board was spending his money.
Especially when he didn't see
a boundaries

5-1-14 3:00 pm

1. PSC has allowed intervention of Board -
2. AG offered - to represent group
3. 11. ...

5/2/14 - 9:50 AM

Mike Haley returned call - we discussed tank PSC request major point were

- He and some neighbors are going door/door to campaign not to waste money fighting a long legal battle
- I brought out was my understanding that A office had offered to re-neighborhood group at no cost They are reg'd by statute to intervene
- Apparently neighborhood group decline A's offer.
- Brought out again Developer was aware of site and actually had worked w/ District to upsize a line to serve tank.
- District has large value investment of US-68 line replacement, etc with purpose to serve tank proposed at this site i.e.; several hundred thousand investment

- Asked permission to show our conversation with Board at Wednesday meet. Mike agreeable.
- Mike said I might expect calls from others asking questions about situation.
- Discussed prior hearing and opposing aesthetic and equating to high voltage line which isn't applicable.
- Conclusion - If Board receptive to meet with neighborhood group maybe they want to meet. I'll report after Wednesday meet and Mike will respond after his survey.

Jennifer Black Hans

AG OFFICE

502 696-5408

Greg DuHou

502-696-5453

Ass to Jennifer

MIKE Haley 333-1965

* Since another month to Bd meet - Mike
#1 can meet w/ his group.

* District can file motion to determine
precisely who in Association supports
Bates' intervention, will this help Mike?

* How many against

* How was intervention determined
(Bruce review by-laws - says they have
to budget legal cost at the annual meeting)

post minutes of HOA 8-10 only attend

5/10/14 PM - 2:12 (Sat)

Received call from Mike Haley - long
discussion following major points:

- He is route return home - back
out again Tues - for Gordon/Chine
- New date set for a vote on
whether to intervene - Mike
does recall date.
- He wanting info to formulate
a letter to distribute in
opps -

- Charming House cleared
- Arc & Historic
- Fed wildlife - ok
- 50k site too small
- District Committed to build
- PSC order camp must have more storage
- explain 1st & 2nd App
- District will meet

Conclusion - general impression does not have the substantial support that first appeared. Also, doesn't appear to have time or fire to achieve reversal.

5/12/14 - 10:07 AM.

Called Bruce to report on call from Mike and gave him a verbal report. Over concerns, not probable to reverse. But may be helpful. Bruce & Tony did not file any motions -

PHONE CALL

FOR	JOHN	DATE	7/28	TIME	9:15 A.M.
M.	MARK HUTCHINS				
OF	859-333-0345				
PHONE	859-333-0345	FAX/CELL			
MESSAGE	<input type="checkbox"/> TELEPHONED				
RE: WATER TANK -	<input type="checkbox"/> RETURNED YOUR CALL				
FOURPOST HILLS	<input checked="" type="checkbox"/> PLEASE CALL				
	<input type="checkbox"/> WILL CALL AGAIN				
	<input type="checkbox"/> CAME TO SEE YOU				
SIGNED	BRAD	<input type="checkbox"/> WANTS TO SEE YOU			

PHONE CONVERSATION LOG

-HORNE ENGINEERING, INC.-

FILE COPY

WO# 4049

DATE: 7-28-14

TIME: 3:55 pm

SPOKE WITH: MARK HUTCHINS initiated call
 returned call

HEI-Name: JOHN

COMPANY NAME Self received call

PHONE NUMBER 859-333-0345

SUBJECT His proposed residence construction @ Catnip Tank site.

Discussion:

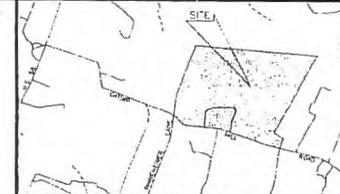
Returned Mr. Hutchins phone call - he wanted to discuss issues relating to the District's distribution and proposed tank construction. Following are some of the points

- The JSEWD has a 6" main along crest of Plume and going east on north side of Catnip
- There is a 12" main in the Clays Mill old roadbed going from Catnip to tank site
- The access easement was placed on Mrs Switzer's plat prior to FH being developed.
- The access is still available for construction access - I'm not sure Bruce/Rick opinion of using 1/2 roadbed (adjointer) is possible
- The design of tank site has a storm drain on his side of R extending to swale that flows NW to FH
- Timing of bid const is hampered by PSC & FH objections
- HEI is available for further questions and to cooperate where/when possible.

[Handwritten signature]

PLAT CAB 10 SLIDE 230

CURVE	STATION	ARC	CHORD	CHORD BEARING	CHORD DIST
C1	173.51	300.00	127.81	N 101° 17' 24" E	315.8
C2	170.48	140.00	72.41	N 137° 06' 12" E	144.90
C3	77.73	150.00	58.73	N 22° 20' 00" E	150.00



VICINITY MAP (1"=1000')

METHOD OF SURVEY

THIS PLAT IS BASED ON A FIELD SURVEY PERFORMED BY LOCAL ENGINEERS IN ACCORDANCE WITH THE SURVEYING ACT OF 1978. THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH THE SURVEYING ACT OF 1978 AND THE SURVEYING BOARD OF THE COMMONWEALTH OF KENTUCKY. THE SURVEY IS BASED ON A CLASS B SURVEY AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE REQUIREMENTS OF THIS CLASS.

CERTIFICATE OF OWNERSHIP AND DEDICATION

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREIN AND THAT I HAVE HERETOFORE ACCEPTED THIS PLAN OF SUBDIVISION WITH MY FULL AND FREE CONSENT. I ESTABLISH THE BOUNDARY RESTRICTION LINES AND ESTATE ALL RIGHTS, ALIEN, EASEMENTS, AND OTHER INTERESTS TO THE PROPERTY SHOWN HEREIN TO THE EXTENT OF THE JESSAMINE COUNTY ENGINEER ON AUTHORIZED OFFICIALS.

CERTIFICATE OF APPROVAL FOR RECORDING

I HEREBY CERTIFY THAT THE SUBDIVISION PLAN SHOWN HEREIN HAS BEEN FOUND TO COMPLY WITH THE SUBDIVISION REGULATIONS OF THE JESSAMINE COUNTY, KENTUCKY, WITH THE EXCEPTION OF SUCH VARIANCES AS MAY BE NOTED IN THE COMMENTS OF THE ENGINEER ON AUTHORIZED OFFICIALS AND THAT IT HAS BEEN APPROVED FOR RECORDING IN THE OFFICE OF THE COUNTY CLERK.

CERTIFICATE OF ACCURACY

I DO HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREIN IS A TRUE AND CORRECT COPY TO THE ACCURACY REQUIRED BY THE JESSAMINE COUNTY ENGINEER ON AUTHORIZED OFFICIALS AND THAT THE INFORMATION HAS BEEN PROVIDED TO THE ENGINEER ON AUTHORIZED OFFICIALS.

PURPOSE OF PLAT

THE PURPOSE OF THIS PLAT IS TO RETRACE THE BOUNDARY AND TO CREATE TRACT "1" AS SHOWN HEREON.

SITE STATISTICS

TOTAL AREA	140.63 ACRES
AREA IN TRACT 1	140.63 ACRES
AREA IN TRACT 2	0.00 ACRES
AREA IN TRACT 3	0.00 ACRES
TOTAL	140.63 ACRES

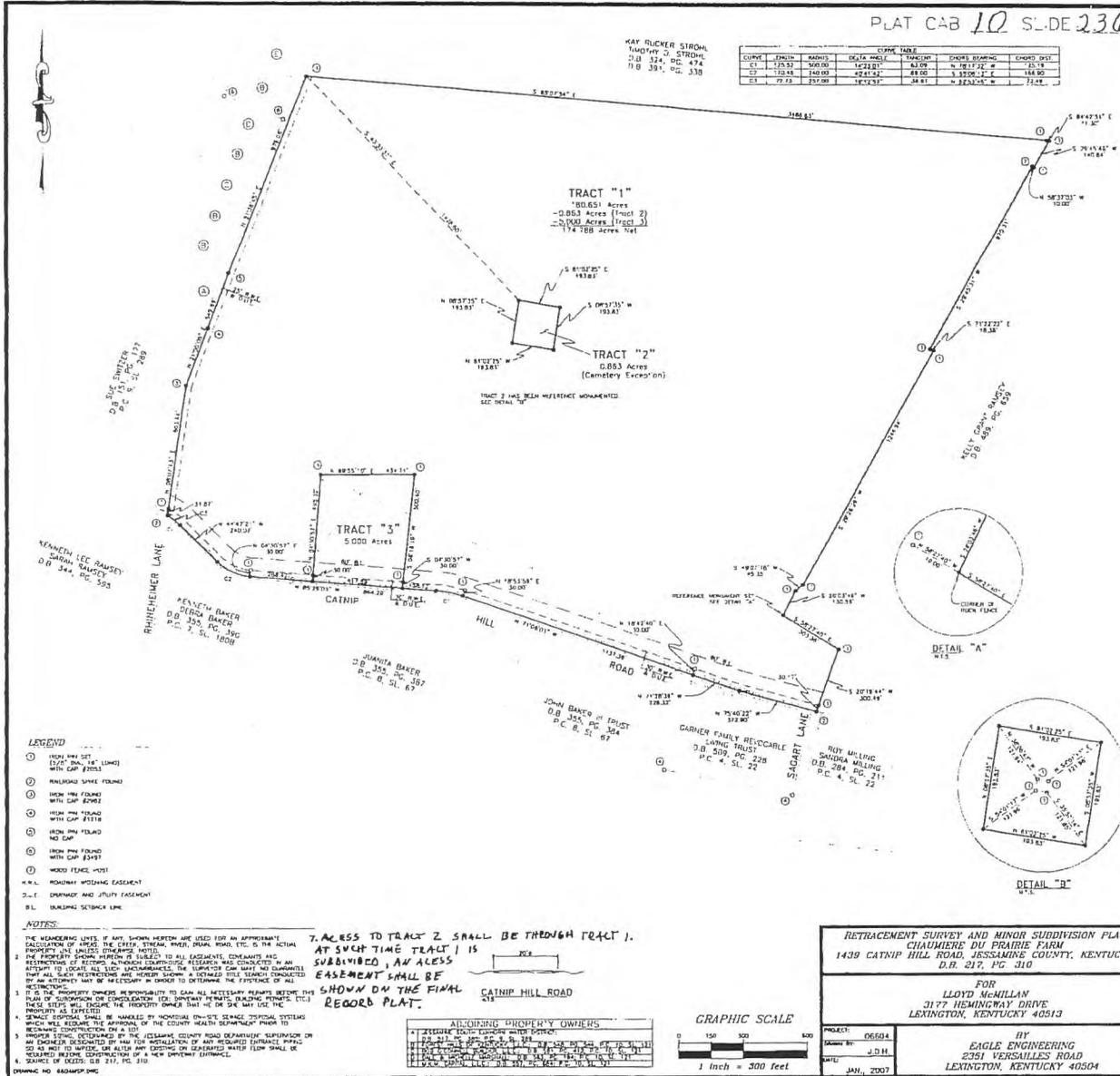
BUILDING SETBACKS

FRONT YARD	40 FEET
REAR YARD	20 FEET
SIDE YARD	10 FEET

RECORDERS CERTIFICATION

DOCUMENT NO: 2013781
 RECORDED ON: FEBRUARY 21, 2017 08:32:43AM
 TOTAL FEES: \$20.00
 COUNTY CLERK: EVA L. MCDONNELL, CLC
 COUNTY: JESSAMINE COUNTY
 DEPUTY CLERK: TOMMIE S. COLLINGS
 BOOK CAB10 PAGES 236 - 236

JESSAMINE COUNTY
 CAB10 Pg 236



LEGEND

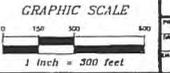
- ① HIGHWAY SET WITH CAP #2025
- ② RAILROAD SPUR FOLDED WITH CAP #2025
- ③ HIGHWAY FOLDED WITH CAP #2025
- ④ HIGHWAY FOLDED WITH CAP #2025
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NOTES

1. THE BOUNDARY LINES OF THIS SURVEY HEREON ARE BASED ON AN APPROXIMATE CALCULATION OF THE CENTER STREAM, RIVER, BEAR, ROAD, ETC. IS THE ACTUAL PROPERTY LINE UNLESS OTHERWISE NOTED.
2. RESTRICTIONS OF RECORD, ALIEN, EASEMENTS, RIGHTS AND CLAIMS IN AN ATTEMPT TO LOCATE ALL SUCH INTERESTS, THE SURVEYOR HAS MADE NO CLAIMS THAT ALL SUCH RESTRICTIONS AND INTERESTS ARE FULLY DISCLOSED TO THE PROPERTY OWNER AND THAT ALL SUCH RESTRICTIONS AND INTERESTS ARE FULLY DISCLOSED TO THE PROPERTY OWNER.
3. IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS BEFORE THIS PLAN OF SUBDIVISION OR DEVELOPMENT (OR OTHERWISE) IS CONSTRUCTED. THE SURVEYOR HAS NO LIABILITY FOR SUCH PERMITS, FEES, OR OTHER CHARGES.
4. THE SURVEYOR HAS NO LIABILITY FOR SUCH PERMITS, FEES, OR OTHER CHARGES.
5. THE SURVEYOR HAS NO LIABILITY FOR SUCH PERMITS, FEES, OR OTHER CHARGES.
6. THE SURVEYOR HAS NO LIABILITY FOR SUCH PERMITS, FEES, OR OTHER CHARGES.
7. ACCESS TO TRACT 2 SHALL BE THROUGH TRACT 1. AT SUCH TIME TRACT 1 IS SUBDIVIDED, AN ACCESS EASEMENT SHALL BE SHOWN ON THE FINAL RECORD PLAT.

7. ACCESS TO TRACT 2 SHALL BE THROUGH TRACT 1. AT SUCH TIME TRACT 1 IS SUBDIVIDED, AN ACCESS EASEMENT SHALL BE SHOWN ON THE FINAL RECORD PLAT.

ALLOTTING PROPERTY OWNERS	
1. JESSAMINE COUNTY HEALTH DEPARTMENT	2. JESSAMINE COUNTY HEALTH DEPARTMENT
3. JESSAMINE COUNTY HEALTH DEPARTMENT	4. JESSAMINE COUNTY HEALTH DEPARTMENT
5. JESSAMINE COUNTY HEALTH DEPARTMENT	6. JESSAMINE COUNTY HEALTH DEPARTMENT
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97. JESSAMINE COUNTY HEALTH DEPARTMENT	98. JESSAMINE COUNTY HEALTH DEPARTMENT
99. JESSAMINE COUNTY HEALTH DEPARTMENT	100. JESSAMINE COUNTY HEALTH DEPARTMENT



RETRACEMENT SURVEY AND MINOR SUBDIVISION PLAT CHAUMIERE DU PRAIRIE FARM 1439 CATNIP HILL ROAD, JESSAMINE COUNTY, KENTUCKY D.B. 217, P.G. 310		COMPILED BY: J.D.H.
FOR LLOYD McWILLIAN 3177 HEMINGWAY DRIVE LEXINGTON, KENTUCKY 40513		BY EAGLE ENGINEERING 2051 VERSAILLES ROAD LEXINGTON, KENTUCKY 40504
PROJECT: 05624 DRAWN BY: J.D.H. DATE: JAN, 2007		

Horne Engineering, Inc.

216 SOUTH MAIN STREET • NICHOLASVILLE, KENTUCKY 40356

PH. (859)885-9441 • FAX (859)885-5160

email@horneeng.com



ENGINEERS
LAND SURVEYORS
PLANNERS

August 29, 2014

4049

Mr. Mark A. Hutchens
508 Thames Drive
Nicholasville, KY 40356

Re: Lots 7 & 8
Sue C. Switzer Property
Catnip Hill Pike

Dear Mr. Hutchens:

In preparation to our proposed meeting, I made a copy of certain documents which I thought were pertinent to your concerns. However, since we were unable to meet onsite, I am forwarding said documents with the following explanation(s).

SITE PLAN - Sheet 1 of 7 - This is a plan sheet from the current draft of the proposed elevated storage tank, showing the location of the tank and storm drain pipe. The current design shows the exit to be located in the center of what is now your proposed driveway. Needless to say, we will need to reposition this exit by extending the pipe to a point on the northerly side of your proposed driveway.

I have been onsite and noticed what I assume is your cordoned off area for your proposed septic field. The new position of the storm drain exit should not impact your septic field since it is downgrade, and all waters will flow northeasterly and away from your field. Neither should your proposed field impact on the proposed storm drain, insofar as subsurface disposal regulations prohibit leach lines in a utility easement.

SUE SWITZER PLAT 2004 (Horne Engineering, Inc.) - When the District purchased the tank site from Ms. Switzer, we prepared a minor plat showing the existing boundary and the proposed 1-Acre tank site. This plat added various easements. The ones of your concern being the 25' road widening easement along the eastern boundary and a 20' access and UE (i.e., utility easement) located contiguous to the western edge of the 25' road widening easement. In addition, please refer to Survey Note #1 which addresses the permanent access easement. Needless to say, this plat predated the development of Forest Hills Subdivision and the subsequent easement associated with that development.

SUE SWITZER PLAT 2005 (Rice-Ransdell, Inc.) - Subsequent to the above recorded plat, Jeff Ransdell completed a subdivision plat for Ms. Switzer which further subdivided



Mr. Mark A. Hutchens
August 29, 2014
Page 2

her property into additional 5-Acre lots. This is the plat that is referenced in your deed of conveyance from Ms. Switzer.

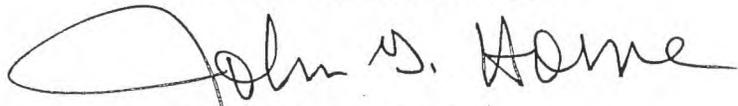
Unfortunately, this plat incorrectly shows the access easement along the easterly boundary (i.e., in Lot 7) as was depicted on the prior record plat. Mr. Ransdell's plat shows the access as 25' (rather than 20') and superimposed on the 25' road widening easement rather than be 20' and contiguous to and west of the 25' road widening.

Furthermore, no mentioning is made or replication of Survey Note #1 which entails a permanent 10' access easement.

During the course of my involvement with various discussions regarding this subject, it does not appear that you are cognizant of these facts. For that reason, I felt it was appropriate to bring them to your attention.

Upon receipt and review, if you have any questions or require further explanation, please contact me at (859) 885-9441.

Sincerely,
HORNE ENGINEERING, INC.



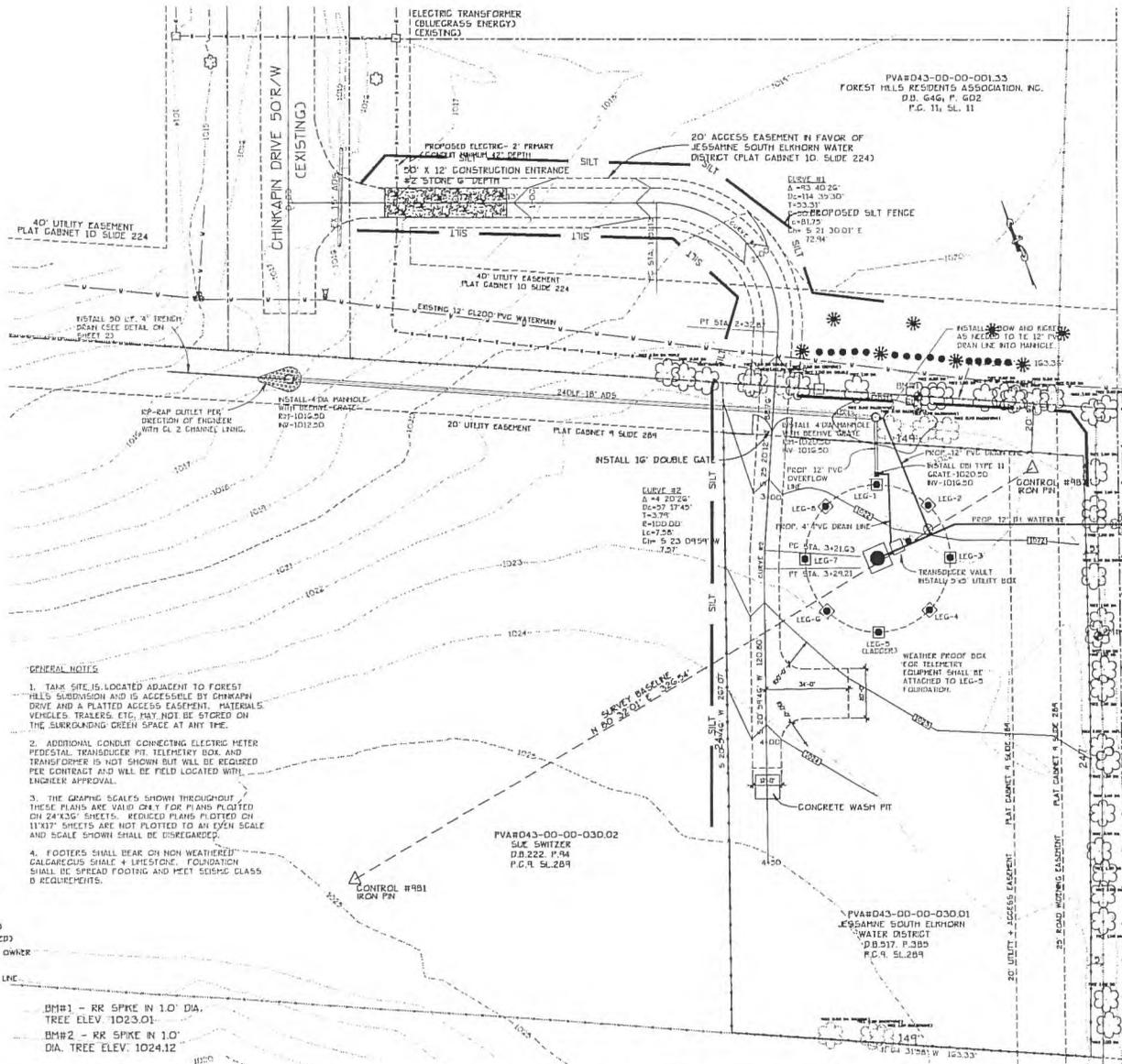
John G. Horne, PE, PLS
President

JGH/jt
enc.

cc: Board of Commissioners
Glenn T. Smith
Richard Decker
Diana Clark w/enc.
Bruce E. Smith
Engr/4044
Engr/4049
Corr.



3:\SCCESWORK\WO4049\WO4049.dwg, 10/13/2014 8:33:03 AM



NO.	REVISED	BY	DATE	DESCRIPTION
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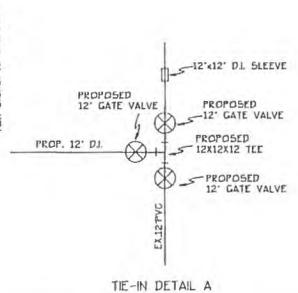
- GENERAL NOTES**
1. TANK SITE IS LOCATED ADJACENT TO FOREST HILLS SUBDIVISION AND IS ACCESSIBLE BY CHINKAPIN DRIVE AND A PLATTED ACCESS EASEMENT. MATERIALS, VEHICLES, TRAILERS, ETC., MAY NOT BE STORED ON THE SURROUNDING GREEN SPACE AT ANY TIME.
 2. ADDITIONAL CONDUIT CONNECTING ELECTRIC METER PEDestal TRANSDUCER PI, TELEMETRY BOX, AND TRANSFORMER IS NOT SHOWN BUT WILL BE REQUIRED PER CONTRACT AND WILL BE FIELD LOCATED WITH ENGINEER APPROVAL.
 3. THE GRAPHIC SCALES SHOWN THROUGHOUT THESE PLANS ARE VALID ONLY FOR PLANS PLOTTED ON 24"x36" SHEETS. REDUCED PLANS PLOTTED ON 11"x17" SHEETS ARE NOT PLOTTED TO AN EVEN SCALE AND SCALE SHOWN SHALL BE DISREGARDED.
 4. FOOTERS SHALL BEAR ON NON WEATHERED CALICAREOUS SHALE + LIFESTONE. FOUNDATION SHALL BE SPREAD FOOTING AND MEET SEISMIC CLASS D REQUIREMENTS.

- LEGEND**
- - - EASEMENT LINE
 - - - EXISTING WATERMAIN
 - - - PROPERTY LINE
 - - - PROPOSED WATERMAIN
 - - - ROAD CENTERLINE
 - GATE VALVE
 - FIRE HYDRANT (EXISTING)
 - FIRE HYDRANT (PROPOSED)
 - NOTES SAME PROPERTY OWNER
 - AIR RELEASE VALVE
 - UNDERGROUND ELECTRIC LINE
 - EXISTING TREE

BM#1 - RR SPIKE IN 1.0' DIA.
TREE ELEV. 1023.01
BM#2 - RR SPIKE IN 1.0' DIA.
TREE ELEV. 1024.12

PVA#003-00-000.00
MARGARET RASH + LLOYD + LINDA MCILLEN
D.B.217, P.330
P.C.I.O. 5L.236

TE-IN NOTE
THIS CONTRACTOR SHALL FURNISH ALL MATERIALS REQUIRED FOR THE TE-IN AND THE DISTRICT'S CONTRACTOR SHALL FURNISH LABOR AND EQUIPMENT AND COMPLETE THE ACTUAL TE-IN. THIS CONTRACTOR SHALL INCLUDE AN ALLOWANCE COST OF \$1500.00 FOR THIS WORK AND SHALL PAY THE DISTRICT'S MAINTENANCE CONTRACTOR DIRECT. THIS \$1500.00 ALLOWANCE SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR THE TE-IN.



NO.	REVISED	BY	DATE	DESCRIPTION

SCALE 1" = 20'

CATNIP HILL PIKE 750,000 GAL. ELEVATED STORAGE TANK
JESSAMINE SOUTH ELKHORN WATER DISTRICT
802 SOUTH MAIN STREET, NICHOLASVILLE, KY. 40356

HORNE ENGINEERING, INC.
ENGINEERS - PLANNERS - LAND SURVEYORS
216 SOUTH MAIN STREET - NICHOLASVILLE, KY. 40356
(606) 885-9441 FAX (606) 885-3160

SITE PLAN
SHEET 1 OF 7

METHOD OF SURVEY

THIS SURVEY WAS CONDUCTED VIA RANDOM OFFSET TRAVERSE WITH RADIAL CORNER TIES. AT AN UNADJUSTED TRVERSE PRECISION OF 1:13,350 USING A TOPCON GTS 3 G TOTAL STATION ADJUSTMENT OF TRAVERSE BY CRANDALL METHOD. COMPUTATIONS WERE COMPLETED USING SURV-CADD SOFTWARE. BEARINGS DETERMINED FROM MEASURED ANGLES, NORTH ROTATED TO BEARING OF N 82°15'00" E (TRAVERSE OF A PREVIOUS SURVEY). THIS SURVEY CONSTITUTES A CLASS "B" SURVEY.

ENTRANCE PIPE NOTE

PURSUANT TO SECTION 4.02 OF THE JESSAMINE COUNTY SUBDIVISION REGULATIONS AN INSTALLED ENTRANCE PIPE SHALL BE APPROPRIATELY SIZED PER REQUIREMENTS OF THE JESSAMINE COUNTY ROAD DEPARTMENT SUPERVISOR. A MINIMUM SIZE OF 15" SHALL BE REQUIRED.

CERTIFICATE OF ACCURACY

I HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON IS A TRUE AND CORRECT SURVEY TO THE ACCURACY REQUIRED BY THE WILMORE-JESSAMINE COUNTY JOINT PLANNING COMMISSION AND THAT THE MONUMENTS HAVE BEEN PLACED AS SHOWN HEREON TO THE SPECIFICATIONS OF THE JESSAMINE COUNTY ENGINEER OR OTHER AUTHORIZED OFFICER.

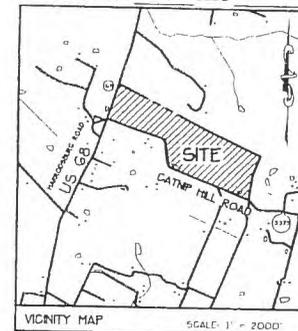
John G. Horne 5-10-04

CERTIFICATE OF OWNERSHIP AND DEDICATION

I (WE) HEREBY CERTIFY THAT I AM (WE ARE) THE OWNER(S) OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT I (WE) HEREBY ADOPT THIS PLAN OF THE SUBDIVISION WITH MY (OUR) FREE CONSENT. ESTABLISH THE MINIMUM BUILDING RESTRICTION LINES, AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS AND OTHER OPEN SPACES TO PUBLIC OR PRIVATE USE AS SHOWN IN ACCORDANCE WITH THE WILMORE AND JESSAMINE COUNTY SUBDIVISION REGULATIONS, UNLESS OTHERWISE NOTED.

John C. Switzer 5/10/04

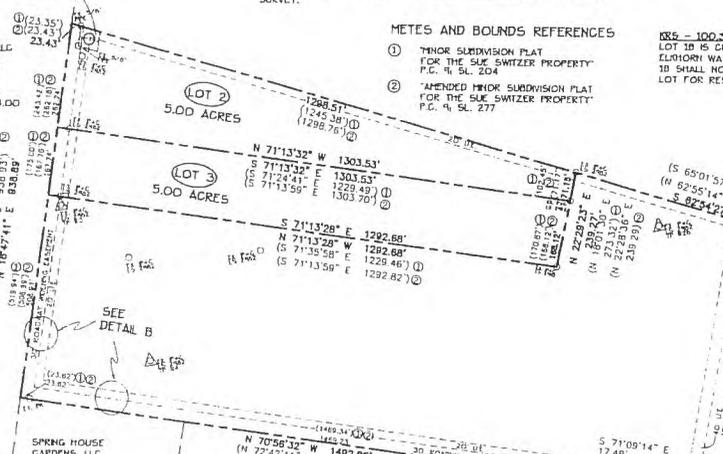
PLAT CABINET 9 SLIDE



J.S.E.W.D. WATER TOWER LEASE D.B. 111, P. 204 D.B. 115, P. 564 043-00-00-003.00

HARRDROS GULLB. LLC D.B. 303, P. 533 D.B. 303, P. 529 D.B. 434, P. 304 D.B. 71, SL. 155-043-00-00-004.00

CAULUS CB HARRODSBURG ROAD (N 18°01'30" E 938.861' (N 18°01'30" E 938.861' (N 18°47'11" E 938.861' (N 18°47'11" E 938.861'



METES AND BOUNDS REFERENCES

- 1. PRIOR SUBDIVISION PLAT FOR THE SUE SWITZER PROPERTY P.C. 9, SL. 204
2. AMENDED PRIOR SUBDIVISION PLAT FOR THE SUE SWITZER PROPERTY P.C. 9, SL. 277

KRS - 100.261 NOTE

LOT 1B IS CREATED FOR USE BY JESSAMINE SOUTH ELUMORH WATER DISTRICT WHICH IS A UTILITY. LOT 1B SHALL NOT BE USED AS A SEPARATE BUILDING LOT FOR RESIDENTIAL PURPOSES.

STATE OF KENTUCKY JOHN G. HORNE 1218 LICENSED PROFESSIONAL LAND SURVEYOR

WILKINSON DEVELOPMENT, LLC D.B. 496, P. 560 D.B. 496, P. 566 D.B. 496, P. 572 043-00-00-001.00

PURPOSE OF PLAT THE PURPOSE OF THIS PLAT IS TO AMEND THE PLAT OF RECORD, TITLED "AMENDED PRIOR SUBDIVISION PLAT FOR THE SUE SWITZER PROPERTY..."

SURVEY NOTES

1. THIS SURVEY RECOGNIZES AND CREATES A TEN (10') FOOT WIDE ACCESS EASEMENT FROM SUE SWITZER IN FAVOR OF AND TO THE JESSAMINE SOUTH ELUMORH WATER DISTRICT...

2. THERE IS AN APPARENT TYPOGRAPHICAL ERROR IN THE RECORDED DISTANCE (1228.92') OF THIS CALL. COMPLETING A BOUNDARY CLOSURE CALCULATION DERIVES A CLOSURE ERROR OF 245.36', GIVING A TOTAL DISTANCE OF 1524.28'.

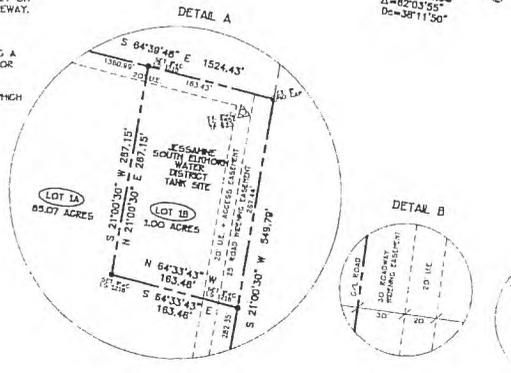
3. NINE SPIKE WAS MISSING BUT FOUND APPARENT HOLE, WHICH WAS MARKED WITH PAINT.

SITE STATISTICS

Table with 2 columns: Description and Value. Includes Total Area (86.06 ACRES), No. of Lots (1), and Lot Areas (86.06, 85.06, 1.00).

CURVE DATA

Table with 4 columns: Curve, P.C., S.L., P.T., and This Survey. Includes Curve 1 and Curve 2 data.



LEGEND

- UTILITY LINE, UTILITY POLE, EASEMENT LINE, PROPERTY LINE, SET MONUMENT, CHORD, BR, EXISTING MONUMENT, FENCE LOCATION, FENCE, TRAVERSE POINT NO. 6

CERTIFICATE OF APPROVAL FOR RECORDING

I HEREBY CERTIFY THAT THE SUBDIVISION PLAN SHOWN HEREON HAS BEEN FOUND TO COMPLY WITH THE SUBDIVISION REGULATIONS FOR JESSAMINE COUNTY, KENTUCKY...

Signature and date: 5/13/04

OWNER SUE SWITZER 1121 CATNIP HILL ROAD NICHOLASVILLE, KENTUCKY 40356

D.B. 151, P. 77 D.B. 222, P. 94

SECOND AMENDED MINOR SUBDIVISION PLAT OF THE SUE SWITZER PROPERTY

PLAT CABINET 9, SLIDE 277 1121 CATNIP HILL ROAD JESSAMINE COUNTY, KENTUCKY

HORNE ENGINEERING, INC.

ENGINEERS - PLANNERS - LAND SURVEYORS 210 SOUTH MAIN STREET - NICHOLASVILLE, KY. 40356

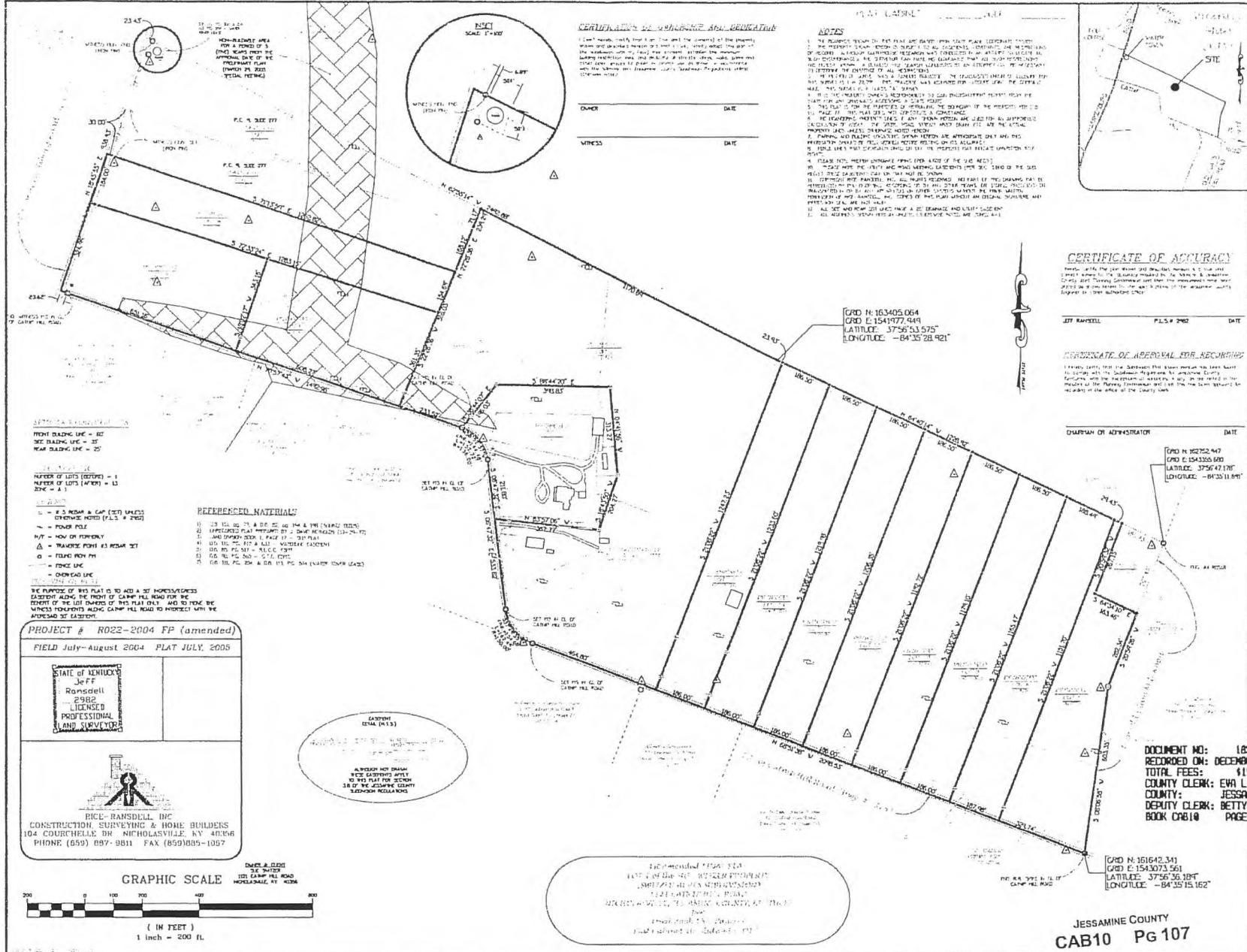
SCALE: 1" = 200' DATE: 04/29/2004 FIELD BOOK: 1556-2 - 2003, 1556-1 - 2004 DATE OF SURVEY: 02/18/02

GRAPHIC SCALE: 1" = 200'



JESSAMINE COUNTY CAB 9 Pg 289

DOCUMENT NO: 15912 RECORDED ON: MAY 14, 2004 18:27:13PM TOTAL FEES: \$55.00 COUNTY CLERK: EMM L. McNEEL, CLC COUNTY ENGINEER: JESSAMINE COUNTY DEPUTY CLERK: BEITH E. COOLETT



CERTIFICATE OF ACCURACY AND VERIFICATION

I, Jeff Ransdell, Surveyor, do hereby certify that the contents of this plat... OWNER: DATE: WITNESS: DATE:

- NOTES: 1. THE PLANNED... 2. THE PROPERTY... 3. THE PROPERTY... 4. THE PROPERTY... 5. THE PROPERTY... 6. THE PROPERTY... 7. THE PROPERTY... 8. THE PROPERTY... 9. THE PROPERTY... 10. THE PROPERTY...



CERTIFICATE OF ACCURACY

I hereby certify that the plat shown has been found to comply with the provisions of the Surveying Act... JEFF RANSDELL P.L.S. # 2962 DATE:

CERTIFICATE OF APPROVAL FOR RECORDING

I hereby certify that the plat shown has been found to comply with the provisions of the Surveying Act... CHAIRMAN OF ADMINISTRATION DATE:

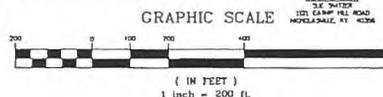
FRONT EASEMENT LINE - 80' SIDE EASEMENT LINE - 20' REAR EASEMENT LINE - 20' NUMBER OF LOTS (SHOWING) = 4 NUMBER OF LOTS (APPROX) = 13 20' x 4 = 80'

- REFERENCED MATERIALS: 1. 23 JUL 00, P. 3 & 4 OF PG. 40, 41 & 42 (NORTH PLAT) 2. UNRECORDED PLAT PREPARED BY J. RANSDELL (10-23-00) 3. SAME SHOWING BOOK 1, PAGE 17 - 20 (PLAT) 4. 015 JUL 00, PG. 102 & 103 - VESTING EASEMENT 5. 015 JUL 00, PG. 107 - RELOC. CORN. 6. 015 JUL 00, PG. 108 - 110, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

PROJECT # R022-2004 FP (amended) FIELD July-August 2004 PLAT JULY, 2005

STATE OF KENTUCKY Jeff Ransdell 2982 LICENSED PROFESSIONAL LAND SURVEYOR

PRICE-RANSDELL, INC CONSTRUCTION SURVEYING & HOME BUILDERS 104 COURTHOUSE DR. NICHOLASVILLE, KY 40108 PHONE (609) 887-9811 FAX (859)985-1057



Recommended PLAT FOR THE 100' WIDE EASEMENT... JEFF RANSDELL, SURVEYOR... JESSAMINE COUNTY, KY... PLAT # 107

DOCUMENT NO: 182977 RECORDED ON: DECEMBER 05, 2005 10:14:27AM TOTAL FEES: \$12.00 COUNTY CLERK: EVA L MCCARTHEL, CJC COUNTY: JESSAMINE COUNTY DEPUTY CLERK: BETTY C GOODLETT BOOK CAB10 PAGES 107 - 107 JESSAMINE COUNTY CAB10 Pg 107

Jessamine-South Elkhorn Water District

Information Request No. 8: Please produce all documents not previously produced in Case No. 2012-00470 containing or relating to studies, evaluations, discussions and/or communications, prepared by or on behalf of the District with regard to the water tank proposed in this proceeding.

Answer: **Objection – overbroad and unduly burdensome. The District has filed voluminous support for its Application, including pre-filed testimony and responses filed herein with respect to Forest Hill's 61 information requests, many with subparts. Depending on the information sought, it may include documents protected by attorney/client privilege or attorney work product, and if any such documents are sought by this request, the District objects to such request. Notwithstanding the Objections, see the attachments to Request No. 2.**

[Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 9: Please explain any changes in the District's methodology and/or criteria for siting water tanks since the Commission's final order in Case No. 2012-00470.

Answer: See General Objection and Response to Question 1 above, including Objection. Notwithstanding this objection, no changes.

[John G. Horne and Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 10: Please provide a copy of each geotechnical analysis that was performed after the geotechnical analysis that was produced in Case No. 2012-00470 on a potential site for the water tank proposed in this proceeding.

Answer: See General Objection and Response to Question 1 above, including Objection. Notwithstanding the objection, none.

[John G. Horne and Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 11: Please produce all photographs, diagrams, drawings, renderings or other depictions of the water tank proposed in this proceeding.

Answer: See the construction plans filed with the Kentucky Public Service Commission ("PSC") in this proceeding.

[John G. Horne]

Jessamine-South Elkhorn Water District

Information Request No. 12: Please produce all surveys, plats, or similar documents pertaining to the water tank proposed in this proceeding.

Answer: See attached.

[John G. Horne]

THIS DEED OF CONVEYANCE is executed this 10th day of May, 2004, by and between Sue C. Switzer, a single person, whose mailing address is 1121 Catnip Hill Road, Nicholasville, Kentucky 40356, hereinafter GRANTOR; and Jessamine-South Elkhorn Water District, a Kentucky rural water district created under KRS Chapter 74 whose mailing address is 117 South Main Street, Nicholasville, Kentucky 40356, hereinafter GRANTEE.

WITNESSETH:

That the GRANTOR, for and in consideration of Forty Thousand and NO/100 Dollars (\$40,000.00), cash in hand paid, receipt of all of which is hereby acknowledged;

DOES HEREBY SELL, GRANT AND CONVEY unto the GRANTEE, its successors and assigns in fee simple absolute forever, all of GRANTOR'S right, title and interest in and to the following described real estate located in Jessamine County, Kentucky, to-wit:

All of that certain lot or parcel of land known and designated as Lot 1-B on the Second Amended Minor Subdivision Plat of the Sue Switzer Property, which is recorded in Plat Cabinet 9, Slide 289, in the Jessamine County Clerk's Office and to which plat reference is made and incorporated herein for a more particular description.

Also conveyed herein is a ten (10') foot wide access easement from Sue C. Switzer in favor of and to the Jessamine-South Elkhorn Water District, its successors and assigns in fee simple absolute forever, that is appurtenant to and is a covenant running with the land, leading from Catnip Hill Road to Lot 1-B and running parallel with the common boundary of Lot 1-A, and that of Margaret Rash. This easement shall be located inside the eastern boundary of the 25' wide road widening easement and the western boundary of the 20' W. E. depicted on this Plat and it shall extend five (5') feet on either side of the centerline of a future gravel driveway, to be and as constructed.

Being a portion of the same property conveyed to Ronald Switzer and Sue Switzer, then husband and wife, by deed of Anne Moffett Meece and Clifford Meece, wife and husband, dated January 6, 1978, and recorded in Deed Book 151, Page 77, in the Jessamine County Clerk's Office. Thereafter, Ronald C. Switzer (aka Ronald Switzer), then single, conveyed his interest in the subject property to Sue C. Switzer (aka Sue Switzer), then single, by deed dated December 18, 1986, and recorded in Deed Book 222, Page 94, in the aforesaid Clerk's Office.

TO HAVE AND TO HOLD, the same with all rights, privileges and appurtenances thereunto belonging or in anywise appertaining unto the GRANTEE, its successors and assigns, in fee simple absolute forever, and the GRANTOR does hereby COVENANT to and with the GRANTEE that GRANTOR is lawfully seized in fee simple absolute of the property herein described; that GRANTOR has a good and legal right to sell and convey the same as herein done;

MAIL TO:
117 South Main
Nich Ky
*Mailed
6-1-04*

1 of 3
JESSAMINE COUNTY
D517 PG 385

that the title thereto is free and clear from all encumbrances of record, except as herein provided; and that GRANTOR will **WARRANT GENERALLY** the title thereto.

PROVIDED HOWEVER, there is excepted from the foregoing covenants and warranties, and this conveyance is made subject to, all easements and restrictions of record affecting said property.

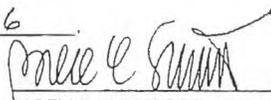
IN TESTIMONY WHEREOF, witness the hand of the GRANTOR on the day first above written.


Sue C. Switzer

COMMONWEALTH OF KENTUCKY
COUNTY OF JESSAMINE, SCT...

The foregoing instrument was subscribed, sworn to, and acknowledged before me by Sue C. Switzer, a single person, on the 10th day of May, 2004.

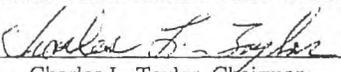
My Commission expires: 12-10-06

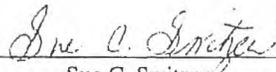

NOTARY PUBLIC - STATE AT LARGE

CONSIDERATION CERTIFICATE

We, the undersigned, hereby certify that the consideration reflected in this deed is the full consideration paid for the property.

Jessamine-South Elkhorn Water District

BY: 
Charles L. Taylor, Chairman


Sue C. Switzer

2 of 3

JESSAMINE COUNTY
D517 PG 386

COMMONWEALTH OF KENTUCKY
COUNTY OF JESSAMINE, SCT...

The foregoing Consideration Certificate was acknowledged and sworn to before me this 10th day of May, 2003, by Sue C. Switzer, a single person, as GRANTOR, and Charles L. Taylor, Chairman of and by and on behalf of Jessamine-South Elkhorn Water District, as GRANTEE.

My Commission expires: 3/28/04

Batricia J. Simpson
NOTARY PUBLIC - STATE AT LARGE

PREPARED BY:

Bruce E. Smith
BRUCE E. SMITH
MOYNAHAN, IRVIN & SMITH, P.S.C.
110 NORTH MAIN STREET
NICHOLASVILLE, KY 40356
(859) 887-1200
2911.000

JESSAMINE COUNTY
D517 Pg 387

3 of 3

DOCUMENT ID: 000000
RECORDED ON: 04/20/04 11:25:45AM
TOTAL FEES: \$18.00
TRANSFER TAX: \$48.00
COUNTY CLERK: EVA L. MCBRIDE, CLERK
COUNTY: JESSAMINE COUNTY
DEPUTY CLERK: BETTY D. GOODLET
BOOK 2007 PAGES 385 - 387

METHOD OF SURVEY

THIS SURVEY WAS CONDUCTED VIA RANDOM OFFSET TRAVERSE WITH RADIAL CORNER TIES AT AN UNADJUSTED TRAVERSE PRECISION OF 1:38355 USING A TOPCON GTS 3 C TOTAL STATION ADJUSTMENT OF TRAVERSE BY CRANIAL METHOD. COMPUTATIONS WERE COMPLETED USING SURV-CADD SOFTWARE. BEARINGS DETERMINED FROM MEASURED ANGLES, NORTH ROTATED TO BEARING OF N 02°15'00" E (TRAVERSE OF A PREVIOUS SURVEY). THIS SURVEY CONSTITUTES A CLASS 'D' SURVEY.

ENTRANCE PIPE NOTE

PURSUANT TO SECTION 4202 OF THE JESSAMINE COUNTY SUBDIVISION REGULATIONS ANY INSTALLED ENTRANCE PIPE SHALL BE APPROPRIATELY SIZED PER REQUIREMENTS OF THE JESSAMINE COUNTY ROAD DEPARTMENT SUPERVISOR. A MINIMUM SIZE OF 15" SHALL BE REQUIRED.

CERTIFICATE OF ACCURACY

I HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON IS A TRUE AND CORRECT SURVEY TO THE ACCURACY REQUIRED BY THE WILMORE-JESSAMINE COUNTY JOINT PLANNING COMMISSION AND THAT THE MONUMENTS HAVE BEEN PLACED AS SHOWN HEREON TO THE SPECIFICATIONS OF THE JESSAMINE COUNTY ENGINEER OR OTHER AUTHORIZED OFFICER.

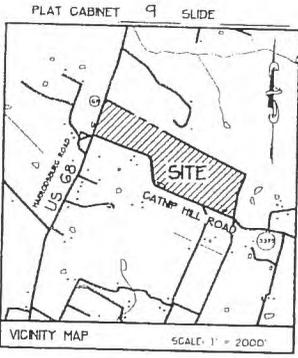
STATE OF KENTUCKY JOHN G. HORNE 1218 LICENSED PROFESSIONAL LAND SURVEYOR

John G. Horne 5-10-04 DATE

CERTIFICATE OF OWNERSHIP AND DEDICATION

I CWD HEREBY CERTIFY THAT I AM ONE OF THE OWNERS(S) OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT I CWD HEREBY ADOPT THIS PLAN OF THE SUBDIVISION WITH MY LOU'S FREE CONSENT, ESTABLISH THE PUBLIC BUILDING RESTRICTION LINES, AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS AND OTHER OPEN SPACES TO PUBLIC OR PRIVATE USE AS SHOWN IN ACCORDANCE WITH THE WILMORE AND JESSAMINE COUNTY SUBDIVISION REGULATIONS, UNLESS OTHERWISE NOTED.

John C. Switzer 5/10/04 DATE



J.S.E.W.D. WATER TOWER LEASE D.B. 111, P. 204 D.B. 113, P. 564 043-00-00-003.00

HARRDROS G.L.B. LLC D.B. 383, P. 533 D.B. 383, P. 528 D.B. 434, P. 304 P.C. 7, SL. 155-A 043-00-00-004.00

METES AND BOUNDS REFERENCES

- 1. "MINOR SUBDIVISION PLAT FOR THE SUE SWITZER PROPERTY" P.C. 9, SL. 204
2. "AMENDED MINOR SUBDIVISION PLAT FOR THE SUE SWITZER PROPERTY" P.C. 9, SL. 277

RES - 100.351 NOTE LOT 1B IS CREATED FOR USE BY JESSAMINE SOUTH ELKHORN WATER DISTRICT, WHICH IS A UTILITY. LOT 1B SHALL NOT BE USED AS A SEPARATE BUILDING LOT FOR RESIDENTIAL PURPOSES.

WILKINSON DEVELOPMENT LLC D.B. 496, P. 560 D.B. 496, P. 566 D.B. 496, P. 572 043-00-00-001.00



CURVE DATA

Table with 4 columns: ARC LENGTH, CHORD LENGTH, BEARING, and THIS SURVEY. It lists data for Curve 1 and Curve 2.

ROBERT K. & GNDI G. SALLEY D.B. 337, P. 189 D.B. 337, P. 185 P.C. 8, SL. 23 043-00-00-005.01

R=136.00' L=152.40' BRG=S 38°52'44" E (BRG=S 39°37'05" E) CH=LH=144.55' (CH=LH=144.48) DELTA=84°12'11" DELTA=42°07'45"

ROBERT K. & GNDI G. SALLEY D.B. 370, P. 590 043-00-00-029.00

PURPOSE OF PLAT THE PURPOSE OF THIS PLAT IS TO AMEND THE PLAT OF RECORD TITLED 'AMENDED MINOR SUBDIVISION PLAT FOR THE SUE SWITZER PROPERTY'...

SURVEY NOTES 1. THIS SURVEY RECOGNIZES AND CREATES A TEN (10') FOOT WIDE ACCESS EASEMENT FROM SUE SWITZER IN FAVOR OF AND TO THE JESSAMINE SOUTH ELKHORN WATER DISTRICT...

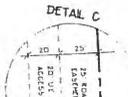
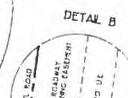
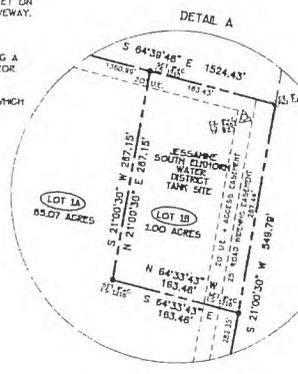
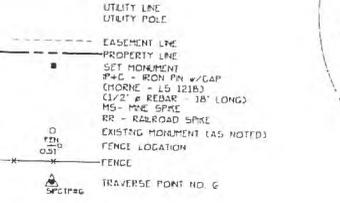
SITE STATISTICS

- TOTAL AREA 86.06 ACRES (EXISTING)
NO. OF LOTS 1
LOT 1 86.06 ACRES (PROPOSED)
NO. OF LOTS 2
LOT 1A 85.06 ACRES
LOT 1B 1.00 ACRES
TOTAL AREA 86.06 ACRES

2. THERE IS AN APPARENT TYPOGRAPHICAL ERROR IN THE RECORDED DISTANCE (3228.72') OF THIS CALL. COMPLETING A BOUNDARY CLOSURE CALCULATION YIELDS A CLOSURE ERROR OF 249.36', GIVING A TOTAL DISTANCE OF 3242.28'.

3. NINE SPIKE WAS MISSING BUT FOUND APPARENT HOLE, WHICH WAS MARKED WITH PAINT.

LEGEND



CERTIFICATE OF APPROVAL FOR RECORDING

I HEREBY CERTIFY THAT THE SUBDIVISION PLAN SHOWN HEREON HAS BEEN FOUND TO COMPLY WITH THE SUBDIVISION REGULATIONS FOR JESSAMINE COUNTY, KENTUCKY, WITH THE EXCEPTION OF SUCH VARIANCES, IF ANY, AS ARE NOTED IN THE WRITINGS OF THE PLANNING COMMISSION AND THAT IT HAS BEEN APPROVED FOR RECORDING IN THE OFFICE OF THE COUNTY CLERK.

Signature of John G. Horne 5/13/04 DATE

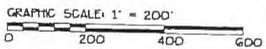
OWNER SUE SWITZER 1121 CATNIP HILL ROAD NICHOLASVILLE, KENTUCKY 40356

SECOND AMENDED MINOR SUBDIVISION PLAT OF THE SUE SWITZER PROPERTY

PLAT CABINET 9, SLIDE 277 1121 CATNIP HILL ROAD JESSAMINE COUNTY, KENTUCKY

HORNE ENGINEERING, INC.

ENGINEERS - PLANNERS - LAND SURVEYORS 218 SOUTH MAIN STREET - NICHOLASVILLE, KY. 40356



JESSAMINE COUNTY CAB 9 Pg 289

RECORDED NO: 15912 RECORDED ON: MAY 14, 2004 18:29:13PM TOTAL FEES: 415.00 COUNTY CLERK: EUN L. MCNEEL, CJC COUNTY ENGINEER: JESSAMINE COUNTY DEPUTY CLERK: RUTH G. BOKSLETT

SCALE: 1" = 200' DWG. BY: BC DWG. NO: 04-04-0354G R00K D09 PAGES: 289 - 289 DATE: 04/24/2004 CWD BY: JCH FILE: C:\S\CEC\SWOR\W03546\PLAT.DWG FIELD BOOK: REG. 2 - 2003, REG. 1 - 2004 DATE OF SURVEY: 02/08/02



Property Search Display

CATNIP HILL

Property Information

Owner: JESSAMINE-SOUTH ELKHORN WATER DISTRICT
Mailing Address: 117 S MAIN ST
NICHOLASVILLE KY 40356

Legal Description: Lot: 1-B
Block:
Unit:
Section:
DB/PG: 517/385 PC/SL: PC9/289

B 517 / 385
PC 9 / 289

Subdivision:
Tax District: A at 1.127 / \$100 of assessed value
Parcel ID#: 043-00-00-030.01
Property Class: Franchise
Lot Size:
Acreage:

Property Characteristics

Square Feet:	Style:	Year Built:
Bedrooms:	Full Bath:	Half Bath:
Basement:	Bsmt Total Sq Ft:	Bsmt % Finished:
Exterior:	Garage/Carport:	
HeatType:	Central Air:	
Fireplace:	Pool:	

Assessment

Cash Value Total: \$ 0
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 2013: \$ 0
Taxable Assessment for 2012: \$

Sales History

Date: 05/24/2004 Price: \$ 40000 DB/PG: 517/385
Buyer's Name: JESSAMINE-SOUTH ELKHORN WATER DISTRICT
Seller's Name: SWITZER SUE

Photo

(click photo to enlarge)

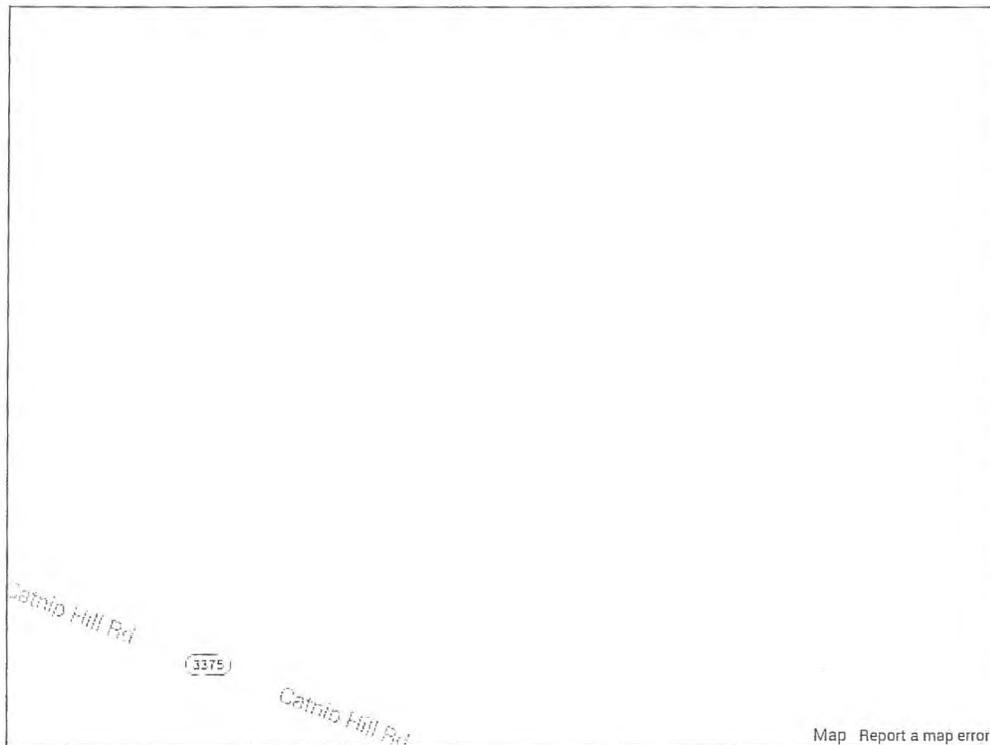


Sketch

(click sketch to enlarge)



GIS Map



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Jessamine-South Elkhorn Water District

Information Request No. 13: Please produce statistics regarding the size of the water tank proposed in this proceeding, including the capacity, height, width of the legs and the diameter of the tank.

Answer: See the construction plans filed with the Kentucky Public Service Commission ("PSC") in this proceeding. Unclear as to the meaning of statistics, insofar as, this science is not pertinent or applicable to storage tank design. Refer to Answer to Request No. 11 for sizes. However, accurate and detailed dimensions are not established until preparation of shop and erection drawing, and these are only prepared by the contractor subsequent to award and execution of a construction contract.

[John G. Horne]

Jessamine-South Elkhorn Water District

Information Request No. 14: Please describe all steps taken by the District to reduce the visual impact of the water tank proposed in this proceeding.

Answer: See General Objection and Response to Question 1 above, including Objection. Notwithstanding the objection, see the following:

1. Site selected is bounded on two (2) sides by mature fence row trees.
2. Additional landscaping designated on construction plans (see 13).
3. District's policy is to select a neutral sky color for tank coating.

[Applicant's Counsel - John G. Horne]

Jessamine-South Elkhorn Water District

Information Request No. 15: Please produce all documents containing or relating to studies, reports or other written documentation of any problems supplying customers of the District with water since January 1, 2013.

Answer: See attached.

[Glenn T. Smith]

Complaint Form

Location: 740 Perkins Pike Date: 1-30-12 Time: 10:00am

Person making complaint: KLAZINA R. HOWARD

Address: 740 Perkins P.ike

Phone: (Res) 254-4081 (Work) _____

Person receiving the complaint: Patty

COMPLAINT: Bad Taste + Smell

PROPERTY DAMAGE: NONE

ACTION TAKEN BY SERVICEMAN: Flushed Main

Date problem corrected 1-30-12 Time: 2:00pm

Person making service call: Tom Smith

Additional information: Tom flushed main. Possible cause
by new line.

COMPLAINT FORM

Location: Rhineheimer Date: June 2, 14 Time: _____

Person making complaint: Rence Rhineheimer

Address: Rhineheimer Ln last house

Phone: (Res) 885-7668 Work: _____

Person receiving the complaint: Tom Smith

COMPLAINT:

Mud on Road New construction

PROPERTY DAMAGE:

None

ACTION TAKEN BY SERVICEMAN:

Called Akins construction Contractor cleaned and
swept Road made straw bale retaining wall to
keep mud off Road

Date problem corrected June 3, 14 Time: _____

Person making service call: Akins construction

Additional information: _____

Location: 2695 Pollard Date: May 30, 14 Time: _____

Person making complaint: Home owner (David Taylor)

Address: 2695 Pollard

Phone: (Res) 859-421-5609 Work: _____

Person receiving the complaint: OFFICE

COMPLAINT:

low water pressure

PROPERTY DAMAGE:

NONE

ACTION TAKEN BY SERVICEMAN:

~~checked~~ took water pressure at house

went to tank ^{site} ~~site~~ Found transducer Bad send

false info. Replaced transducer

Date problem corrected June 2, 14 Time: 12:30 PM

Person making service call: TOM Smith

Additional information: _____

Jessamine-South Elkhorn Water District

Information Request No. 16: Please identify, explain in detail and provide all facts and documents that record, describe, support, refer to or relate to the District's best estimate of the annual cost it will incur to operate the water tank proposed in this proceeding and describe any problems it will experience if this proposed water tank is not constructed at the proposed site.

Answer: See General Objection and Response to Question 1 above, including Objection. Notwithstanding the Objections, see Section 7 at page 37 of the Storage Analysis filed with the Application filed herein for the annual cost. Further, the problems which will be experienced by the Water District if the proposed water tank is not built on the proposed site are as follows: (1) The additional engineering, legal and acquisition costs of purchasing a new site; (2) the loss which the District will likely suffer when it disposes of the current site; (3) the loss of the use of the funds expended in connecting the current tank site to the main on Catnip Hill Road; (4) the additional legal and engineering costs of filing and overcoming possible resistance of adjoining property owners in another CPCN application; (5) the potential of losing \$1,140,000.00 in grant funds if this Application is not approved and the Water District is delayed in its efforts to comply with PSC regulations by constructing a water storage facility; and (6) the diminution in the Water District's level of service provided to its customers in drought and emergency situations.

[L. Christopher Horne and Glenn T. Smith]

Jessamine-South Elkhorn Water District

Information Request No. 17: Please list the number of meters each year on the District's system from the date of the last meter reported in Case No. 2012-00470 to date, setting forth the information for the Northwest Service Area in the manner provided in response to Forest Hills' Supplemental Request for Information No. 22 in Case No. 2012-00470.

Answer:

Summary of Meter Services
Jessamine South-Elkhorn Water District

Year	Meter Services						
	Northwest		Southeast		Total		Total All Services
	Residential	Commercial	Residential	Commercial	Residential	Commercial	
2006	1976	62	377	1	2353	63	2416
2007	2060	67	380	1	2440	68	2508
2008	2115	65	424	1	2539	66	2605
2009	2109	68	436	1	2545	69	2614
2010	2149	69	435	1	2584	70	2654
2011	2158	66	435	1	2593	67	2660
2012	2212	63	444	1	2656	64	2720
2013	2245	65	444	1	2689	66	2755
2014	2349	73	459	0	2808	73	2881

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 18: From the date last reported in Case No. 2012-00470 to date, please update Table 12 that was provided in response to Forest Hills' Supplemental Request for Information No. 26, setting forth the usage in the Northwest Service Area.

Answer: See table attached.

[L. Nicholas Strong]

Table - 12
2006-2014
Average Daily Use Per Customer
Northwest Service Area
Jessamine South Elkhorn Water District

Month	Total Monthly Use (GPD)	Average GPD Daily	Number of Customers	Average Daily Use Per Customer (GPD)	Month	Total Monthly Use (GPD)	Average GPD Daily	Number of Customers	Average Daily Use Per Customer (GPD)
Jan-06	13129990	423548	1939	218	Jan-10	13602900	438803	2173	202
Feb-06	10929280	390331	1945	201	Feb-10	13288630	428665	2169	198
Mar-06	10878220	350910	1959	179	Mar-10	12191520	393275	2167	181
Apr-06	12212340	407078	1970	207	Apr-10	12261520	395533	2174	182
May-06	12185550	393082	1986	198	May-10	15827230	510556	2231	229
Jun-06	17315540	577185	1994	289	Jun-10	19052120	614585	2251	273
Jul-06	22931920	739739	2038	363	Jul-10	26395820	851478	2261	377
Aug-06	21929880	707415	2035	348	Aug-10	20847890	672513	2265	297
Sep-06	25334100	844470	2048	412	Sep-10	30414170	981102	2274	431
Oct-06	14290170	460973	2063	223	Oct-10	28647350	924108	2268	407
Nov-06	13741020	458034	2054	223	Nov-10	21045610	678891	2259	301
Dec-06	12233620	394633	2038	194	Dec-10	12489090	402874	2218	182
Jan-07	13035090	420487	2037	206	Jan-11	13334610	430149	2203	195
Feb-07	12463420	445122	2042	218	Feb-11	12191420	393272	2198	179
Mar-07	11474270	370138	2044	181	Mar-11	11946390	385367	2200	175
Apr-07	12400020	413334	2050	202	Apr-11	10420610	336149	2209	152
May-07	13204900	425965	2079	205	May-11	12307180	397006	2221	179
Jun-07	29796750	993225	2119	469	Jun-11	19486700	628603	2254	279
Jul-07	29868880	963512	2136	451	Jul-11	25959840	837414	2310	363
Aug-07	27907180	900232	2147	419	Aug-11	28009970	903547	2309	391
Sep-07	38981080	1299369	2152	604 **	Sep-11	24852160	801683	2283	351
Oct-07	26155970	843741	2164	390	Oct-11	14507050	467969	2294	204
Nov-07	24003280	800109	2165	370	Nov-11	13753490	443661	2259	196
Dec-07	13567560	437663	2127	206	Dec-11	7576940	244417	2227	110 *
Jan-08	12514910	403707	2111	191	Jan-12	11468580	369954	2223	166
Feb-08	12453760	444777	2108	211	Feb-12	12303890	396900	2218	179
Mar-08	11877300	383139	2115	181	Mar-12	11492550	370727	2224	167
Apr-08	12376300	412543	2122	194	Apr-12	12846440	414401	2229	186
May-08	14679080	473519	2158	219	May-12	15233600	491406	2254	218
Jun-08	19377440	645915	2196	294	Jun-12	24110230	777749	2316	336
Jul-08	27272080	879745	2220	396	Jul-12	39867690	1286055	2332	551
Aug-08	29908580	964793	2239	431	Aug-12	23293890	751416	2346	320
Sep-08	34693200	1156440	2234	518	Sep-12	26637660	859279	2338	368
Oct-08	33646010	1085355	2230	487	Oct-12	18595750	599863	2333	257
Nov-08	23849320	794977	2235	356	Nov-12	16300240	525814	2300	229
Dec-08	11637480	375403	2181	172	Dec-12	15488420	499626	2275	220
Jan-09	14613430	471401	2152	219	Jan-13	15426885	497641	2268	219
Feb-09	14647690	523132	2153	243	Feb-13	14747250	526688	2266	232
Mar-09	9741100	314229	2146	146	Mar-13	14739400	475465	2264	210
Apr-09	12009830	400328	2150	186	Apr-13	15307200	510240	2267	225
May-09	13447160	433779	2183	199	May-13	18178630	586407	2285	257
Jun-09	20250450	675015	2224	304	Jun-13	22016460	733882	2324	316
Jul-09	21982750	709121	2241	316	Jul-13	20481320	660688	2346	282
Aug-09	22983510	741404	2243	331	Aug-13	22028070	710583	2354	302
Sep-09	19796830	659894	2248	294	Sep-13	21531570	694567	2362	294
Oct-09	20403150	658166	2237	294	Oct-13	18270240	589363	2362	250
Nov-09	12470170	415672	2199	189	Nov-13	13939565	464652	2320	200
Dec-09	12203710	393668	2177	181	Dec-13	13404620	432407	2310	187
					Jan-14	17101745	551669	2297	240
					Feb-14	14778795	527814	2303	229
					Mar-14	14911920	481030	2304	209
					Apr-14	15705955	523532	2303	227
					May-14	21248900	685448	2330	294
					Jun-14	23964820	798827	2384	335
					Jul-14	27376705	883120	2399	368
					Aug-14	25461840	821350	2394	343
					Sep-14	20904890	696830	2422	288

* Low use 110 GPD - Dec-11
** High use 604 GPD - Sep-07

Jessamine-South Elkhorn Water District

Information Request No. 19: Please produce any and all studies, analyses, projections and forecasts of the future demand for water by customers of the District prepared after the date of studies, analyses, projections and forecasts of future demand for water in Case No. 2012-00470.

Answer: See Application and Supplemental filings.

[L. Christopher Horne and Dallam B. Harper, Jr.]

Jessamine-South Elkhorn Water District

Information Request No. 20: Please produce all documents not previously produced in Case No. 2012-00470 containing or relating to communications with the City of Nicholasville relating to the provision of storage of water for the District by the City or to the purchase of water by the Water District from the City.

Answer: See General Objection and Response to Question 1 above, including Objection. JSEWD further objects to discovery concerning a hypothetical or theoretical future water supply connection, particularly one that would not include a reservation for storage. As demonstrated in the attached letter from Nicholasville's Utility Manager, any such hypothetical connection as raised here would not include any reservation for storage to meet the needs of the District.

JSEWD further objects to providing the requested information to Forest Hills' counsel, who also represent the interests of KAWC in other matters, concerning the status of any discussions or negotiations involving hypothetical potential new sources of supply for the District, where KAWC is JSEWD's current water supplier and has a potential direct adverse economic interest in any such contacts or discussions.

Notwithstanding the objection, see attached.

[L. Nicholas Strong and Applicant's Counsel]

Jessamine-South Elkhorn Water District

802 South Main Street, P.O. Box 731

Nicholasville, Kentucky 40356

Phone: (859) 881-0589 Fax: (859) 881-5080

May 2, 2014

Mayor Russell A. Meyer
City of Nicholasville
517 N. Main Street
Nicholasville, KY 40356

Re: Nicholasville - Jessamine-South Elkhorn Water District
Interconnection Project - WS21113041

Dear Mayor Meyer:

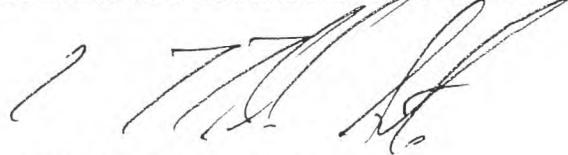
As you are aware, the District is in the process of final design on a 750,000 gallon elevated storage tank to provide additional storage in our system. An integral phase of this design is a computer model, 72-hour simulation, of the tank operation. This model simulation will be performed using KYPIPE software. It is mandatory that the modeling analysis consider not only supply from Kentucky American Water Company, but also the City of Nicholasville connection, if it occurs.

In order for the District to proceed to final design, we will need for the City of Nicholasville to provide an electronic copy of the City's KYPIPE model by June 1, 2014 to:

Horne Engineering, Inc.
c/o Christopher Horne
216 South Main Street
Nicholasville, KY 40356
859-885-9441

The District looks forward to working with you and the City on this project of great importance to our community.

Best Regards,
JESSAMINE-SOUTH ELKHORN WATER DISTRICT



L. Nicholas Strong, Chairman

LNS/jt
cc. Christopher Horne
Diana Clark
Glenn T. Smith
Richard Decker



Nicholasville

October 2, 2014

Mr. Nick Strong, Chairman
Jessamine-South Elkhorn Water District
802 South Main Street
Nicholasville, Kentucky 40356

Re: PSC Information Request

Dear Mr. Strong:

In response to your counsel's inquiry, I can state without reservation that the City of Nicholasville does not have excess water storage capacity which can be allocated or shared with your District or any other water purveyor. Although it is true that the City is investigating the possibility of providing a connection between the City's and the District's water systems, there are no final plans, financing or agreements to do so.

Sincerely,



Tom Calkins

Public Utilities Director

Horne Engineering, Inc.

6 SOUTH MAIN STREET • NICHOLASVILLE, KENTUCKY 40356 • (859)885-9441 • FAX (859)885-5160

ENGINEERS • LAND SURVEYORS • PLANNERS
email@hormeeng.com

MEMORANDUM

FILE COPY

To: Board of Commissioners
Jessamine South Elkhorn Water District

From: John G. Horne, PE, PLS 
Consulting Engineer

Date: May 2, 2014

Subject: CON/JSEWD Interconnection Hydraulic Model

We are in the final design of the proposed 750,000 gallon elevated storage tank, and one phase of the design requires a 72-hour hydraulic simulation to demonstrate that the design is workable and acceptable.

I believe that it is mandatory that we consider the relevancy and impact that the proposed CON Interconnect would have on this simulation, if it occurs. Insofar as Kentucky American Water Company and City of Nicholasville operate in two (2) distinct and completely separate hydraulic gradients, the impact on the District's system could be catastrophic.

Therefore, it is imperative that we be provided a copy of the CON/JSEWD Interconnect hydraulic model. To that end, I have prepared a draft of a letter requesting this information, and attach it for your review and consideration.

JGH/jt

cc: Glenn T. Smith
Richard Decker
Diana Clark
Bruce E. Smith
Engr/4049
Engr/4044
Corr.

Jessamine-South Elkhorn Water District

802 South Main Street, P.O. Box 731

Nicholasville, Kentucky 40356

Phone: (859) 881-0589 Fax: (859) 881-5080

May 2, 2014

Mayor Russell A. Meyer
City of Nicholasville
517 N. Main Street
Nicholasville, KY 40356

Re: Nicholasville - Jessamine-South Elkhorn Water District
Interconnection Project - WS21113041

Dear Mayor Meyer:

As you are aware, the District is in the process of final design on a 750,000 gallon elevated storage tank to provide additional storage in our system. An integral phase of this design is a computer model, 72-hour simulation, of the tank operation. This model simulation will be performed using KYPIPE software. It is mandatory that the modeling analysis consider not only supply from Kentucky American Water Company, but also the City of Nicholasville connection, if it occurs.

In order for the District to proceed to final design, we will need for the City of Nicholasville to provide an electronic copy of the City's KYPIPE model by June 1, 2014 to:

Horne Engineering, Inc.
c/o Christopher Horne
216 South Main Street
Nicholasville, KY 40356
859-885-9441

The District looks forward to working with you and the City on this project of great importance to our community.

Best Regards,
JESSAMINE-SOUTH ELKHORN WATER DISTRICT

L. Nicholas Strong, Chairman

LNS/jt

cc. Christopher Horne
Diana Clark
Glenn T. Smith
Richard Decker

February 13, 2014

Mr. Nick Strong, Chairman
Jessamine South Elkhorn Water District
802 South Main Street
Nicholasville, Kentucky 40356

FILE COPY

**Re: Nicholasville – Jessamine South Elkhorn Water District
Interconnection Project – WX21113041**

Dear Mr. Strong:

As you are aware the City of Nicholasville is in the process of conducting the initial hydraulic analysis as part of the planning and design effort for the above mentioned project. The hydraulic analysis will be performed using KYPIPE software, starting with the existing models that will be provided by the City, the District and related information supplied by Kentucky American Water Company.

Prior to proceeding with final design, a Preliminary Engineering Report (PER) that documents the hydraulic analysis, route and pump station site selection, and preliminary cost estimates will be made available. If the desired flows can be achieved at an acceptable cost, then the detailed design will be completed, followed by construction.

In order for us to begin construction by the end of this year, we will need for the District to provide an electronic copy of the District's KYPIPE model by March 1, 2014 to:

Hazen & Sawyer, PC
c/o John Steinmetz
444 Lewis Hargett Circle, Suite 260
Lexington, KY 40503
859-219-1134

The City looks forward to working with you and the District on this project of great importance to our community.

Best Regards,
City of Nicholasville


Russell A. Meyer
Mayor


Doug Blackford
Commissioner


Kentucky
UNRAILED SPIRIT

Horne, John

From: Tom Calkins <tom_calkins@nicholasville.org>
Sent: Wednesday, December 18, 2013 4:04 PM
To: Chris Horne
Cc: Diana Clark; John Horne; Nick Strong; 'Steinmetz, John'; ragan_cobb@nicholasville.org; danny_johnson@nicholasville.org
Subject: JSEWD/City of Nich Interconnection Project
Attachments: H&SLet121313.pdf

FILE COPY

Christopher:

Please see the attached and give John Steinmetz a call at 219-1126. I have already mentioned to Kentucky American that we will be needing information from them as well.

Merry Christmas,

Tom

December 13, 2013

Mr. Tom Calkins, PE
City of Nicholasville Public Utilities
601 North Main Street
Nicholasville, KY 40356

RE: Jessamine South Elkhorn Water District
Interconnection Project

Mr. Calkins:

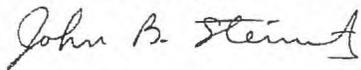
We are beginning work on Jessamine South Elkhorn Water District Interconnection Project, which we were recently awarded by the City of Nicholasville. As you are aware, part of this project includes hydraulic feasibility evaluation of the interconnect using the existing models of these two systems.

We request delivery of the digital model files for the Jessamine-South Elkhorn Water District (JSEWD). The files should include Kentucky Pipe modeling files (or similar), boundary conditions of the Kentucky American Water storage tank and master meter on Clays Mill Road, and all related data, reports, and mapping for a complete, calibrated, hydraulic model.

If you have any questions, please contact us. We look forward to working with the City of Nicholasville on this project.

Sincerely,

Hazen and Sawyer, P.S.C



John B. Steinmetz, PE
Senior Associate

JBS/am

BRUCE E. SMITH LAW OFFICES, PLLC
201 SOUTH MAIN STREET
NICHOLASVILLE, KENTUCKY 40356
(859) 885-3393 + (859) 885-1152 FAX

FILE COPY
4044
&
4049
HENRY E. SMITH
henry@smithlawoffice.net

BRUCE E. SMITH
bruce@smithlawoffice.net

July 9, 2014

Mr. Mark Hutchins
508 Thames Circle
Nicholasville, Kentucky 40356

Re: Jessamine-South Elkhorn Water District ("District")
Catnip Hill Water Tower Site ("Site")

Dear Mark:

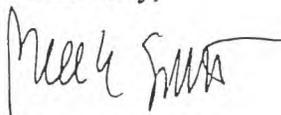
This letter will confirm our telephone conversation of July 8, 2014 during which we discussed the location and future construction of an above-ground water storage tank ("Tank") on a one-acre lot which adjoins one of the two lots recently purchased by you off Catnip Hill Pike. As I understood your response, you were aware of the future use of this Site for a Tank prior to your purchase of the two lots.

You are correct that the District's access to the Site from Forest Hills Subdivision does not cross your property, but is located entirely on a parcel in Forest Hills. As to the District's access easement from Catnip Hill Pike, which runs along and inside the eastern boundary of one of your lots, it will be the tank construction contractor's decision whether or not a graveled roadway is constructed in that easement to aid in the construction of the Tank. Alternatively, the contractor could decide to use the access easement at the end of Chinkapin Drive for construction purposes, depending on the circumstances.

After construction of the Tank on the Site and in the event the Catnip Hill access is used, it is highly unlikely that the constructed gravel roadway would ever be paved with asphalt due to the expenses involved. As I advised you, my prediction is no guarantee because the decision to pave is left to the Board of Commissioners, a body that changes composition over time.

Please call me if you have further questions. I enjoyed talking with you.

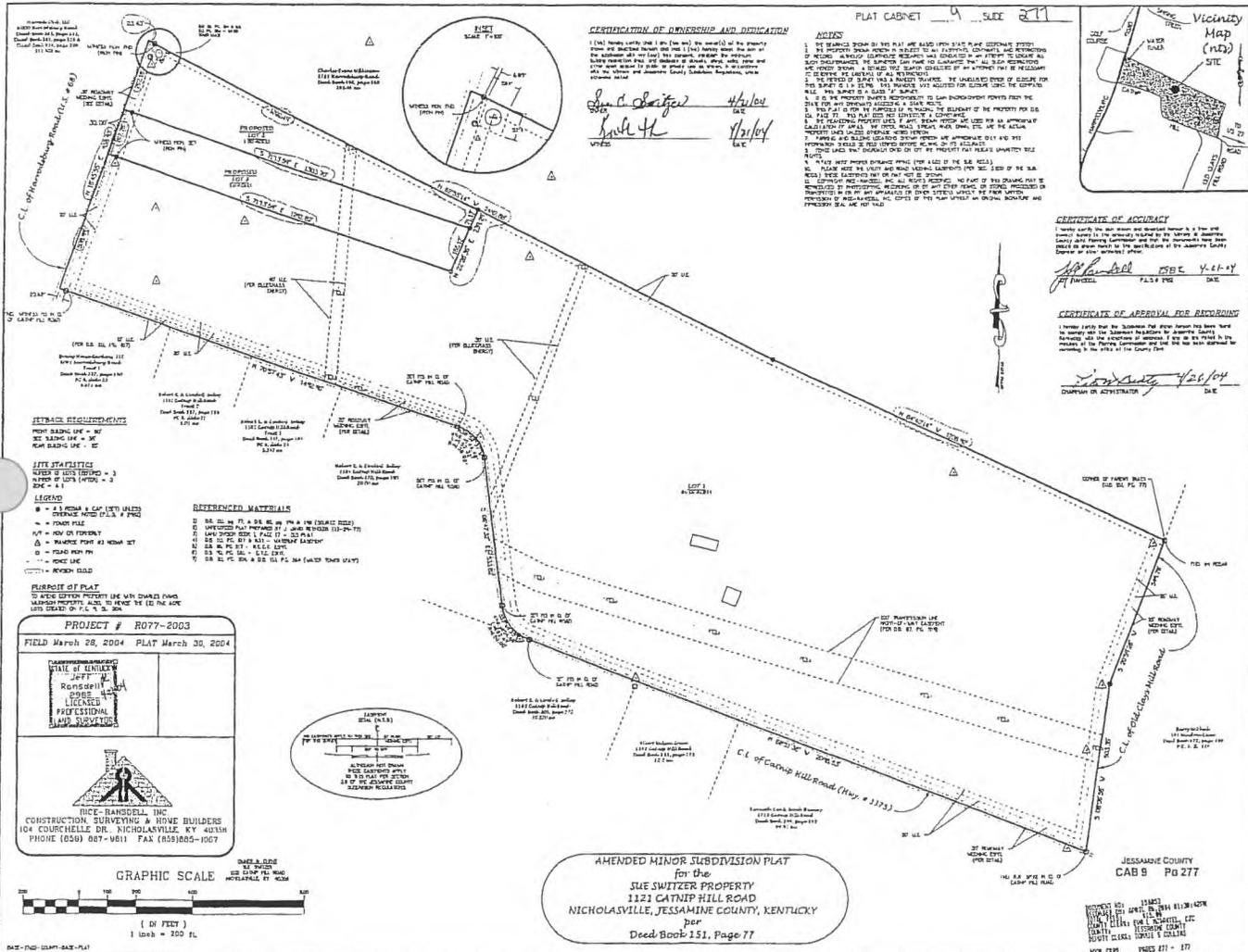
Sincerely,



Bruce E. Smith

cc: Mr. Nick Strong
Mr. John G. Horne

FILE COPY
W04049



PLAT CAB 10 S-DE 236

COMP. DATE	AMOUNT	DATE	REMARKS
01	10.000	01/01/00	INITIAL SURVEY
02	10.000	01/01/00	INITIAL SURVEY
03	10.000	01/01/00	INITIAL SURVEY
04	10.000	01/01/00	INITIAL SURVEY
05	10.000	01/01/00	INITIAL SURVEY
06	10.000	01/01/00	INITIAL SURVEY
07	10.000	01/01/00	INITIAL SURVEY
08	10.000	01/01/00	INITIAL SURVEY
09	10.000	01/01/00	INITIAL SURVEY
10	10.000	01/01/00	INITIAL SURVEY

447 BUCKLER STREET
 110 317.3' 3" 100.00'
 110 317.3' 3" 100.00'
 110 317.3' 3" 100.00'

TRACT "1"
 10.0551 Acres
 2.0863 Acres (Tract 2)
 174.888 Acres (Net)

TRACT "2"
 (Courtesy Extension)
 100' x 100' x 100' x 100'

TRACT "3"
 5.000 Acres



- LEGEND**
- ① 100' x 100' x 100' x 100'
 - ② 100' x 100' x 100' x 100'
 - ③ 100' x 100' x 100' x 100'
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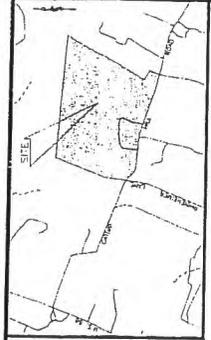
NOTES:

1. THE SHOWN AREAS ARE NOT TO BE CONSIDERED AS A GUARANTEE OF THE ACCURACY OF THE SURVEY.
2. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.
3. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.
4. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.
5. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.
6. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.
7. ACCESS TO TRACT 2 SHALL BE THROUGH TRACT 1. AT SUCH TIME TRACT 1 IS SUBDIVIDED, AN ALIAS EASEMENT SHALL BE SHOWN ON THE FINAL RECORD PLAT.

ALIASING PROPERTY OWNERS

TRACT	OWNER	ADDRESS	CITY	STATE	ZIP
1	CHANDLER DU PRAIRIE FARM	1409 CATRIP HILL	JESSAMINE COUNTY	KENTUCKY	40310
2	CHANDLER DU PRAIRIE FARM	1409 CATRIP HILL	JESSAMINE COUNTY	KENTUCKY	40310
3	CHANDLER DU PRAIRIE FARM	1409 CATRIP HILL	JESSAMINE COUNTY	KENTUCKY	40310

GRAPHIC SCALE
 1 inch = 200 feet



METHOD OF SURVEY
 (11-2000)

THIS PLAT IS BASED ON A FIELD SURVEY CONDUCTED BY SAUL WOODRUFF, JR., REGISTERED PROFESSIONAL SURVEYOR, IN 1999. THE SURVEY WAS CONDUCTED USING A TOTAL STATION AND A GPS RECEIVER. THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.

CERTIFICATE OF OWNERSHIP AND DEDICATION

I, SAUL WOODRUFF, JR., REGISTERED PROFESSIONAL SURVEYOR, DO HEREBY CERTIFY THAT THE SURVEYOR HAS CONDUCTED A FIELD SURVEY OF THE PROPERTY SHOWN ON THIS PLAT AND THAT THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.

CERTIFICATE OF APPROVAL FOR RECORDING

I, SAUL WOODRUFF, JR., REGISTERED PROFESSIONAL SURVEYOR, DO HEREBY CERTIFY THAT THE SURVEYOR HAS CONDUCTED A FIELD SURVEY OF THE PROPERTY SHOWN ON THIS PLAT AND THAT THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.

CERTIFICATE OF ACCURACY

I, SAUL WOODRUFF, JR., REGISTERED PROFESSIONAL SURVEYOR, DO HEREBY CERTIFY THAT THE SURVEYOR HAS CONDUCTED A FIELD SURVEY OF THE PROPERTY SHOWN ON THIS PLAT AND THAT THE SURVEYOR HAS NOT BEEN ADVISED OF ANY INTERESTS IN THE PROPERTY OTHER THAN THOSE SHOWN ON THIS PLAT.

PURPOSE OF PLAT

TO SHOW THE LOCATION OF THE PROPERTY SHOWN ON THIS PLAT AND TO DEFINE THE BOUNDARY AND TO DEFINE TRACT 1.

SITE STATISTICS

AREA	AREA	AREA	AREA
100' x 100'	100' x 100'	100' x 100'	100' x 100'
100' x 100'	100' x 100'	100' x 100'	100' x 100'
100' x 100'	100' x 100'	100' x 100'	100' x 100'
100' x 100'	100' x 100'	100' x 100'	100' x 100'

RETRACEMENT SURVEY AND MINOR SUBDIVISION PLAT
 CHANDLER DU PRAIRIE FARM
 1409 CATRIP HILL
 JESSAMINE COUNTY, KENTUCKY
 JOB NO. 217, PG. 310

FOR
 LLOYD HULLMAN
 3177 HEMINGWAY DRIVE
 LEXINGTON, KENTUCKY 40513

BY
 EAGLE ENGINEERING
 1000 WOODLAND AVENUE
 LEXINGTON, KENTUCKY 40504

DATE: JUL 2003

RECORDED IN: 201701
 RECORDED ON: FEBRUARY 21, 2007 08:32:43 AM
 COUNTY CLERK: EVA L. McMINNIE, CLC
 COUNTY CLERK: JESSAMINE COUNTY
 COUNTY CLERK: TOMMIE S. COLLINS
 BOOK: CAB10 PAGES 236 - 236

Jessamine-South Elkhorn Water District

Information Request No. 21: Please produce all documents not previously produced in Case No. 2012-00470 containing or relating to communications with Kentucky-American Water Company ("KAWC") relating to the provision of storage of water for the District by KAWC or relating to any changes or differences in the purchase of water from KAWC by the District.

Answer: KAWC's letter to the PSC concerning its inability to meet JSEWD's storage requirements has already been filed of record. The District objects to continuing to have to respond to speculative claims by Forest Hills that KAWC is an alternative storage supplier for JSEWD. JSEWD further reiterates its objection to Forest Hills' counsel, who also represent the interests of KAWC, advocating for any potential KAWC economic interest in this proceeding.

[Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 22: Please produce all documents prepared after December 1, 2012, containing or relating to the District's Capital Improvement Programs.

Answer: None.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 23: Please provide a map(s) of the District's distribution system prepared after December 1, 2012, that includes the size of the waterlines.

Answer: None.

[John G. Horne]

Jessamine-South Elkhorn Water District

Information Request No. 24: Please produce all documents submitted to or received from the Kentucky Infrastructure Authority relating to a water storage tank proposed to be constructed by the District at the site described in the Application or any other site within the District's service area.

Answer: See attached.

[L. Nicholas Strong]



KENTUCKY INFRASTRUCTURE AUTHORITY

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

John E. Covington III
Executive Director

Steven L. Beshear
Governor

May 21, 2014

Mr. Nick Strong, Chairman
South Elkhorn Water District
P.O. Box 731
Nicholasville, Kentucky 40356

RE: **HB235 REAUTHORIZATION REALLOCATION**
Jessamine-South Elkhorn Water District – Catnip Hill Pike 1.0MG Elevated Storage Tank Project
\$440,000 - WX21113016 (3N-2014)

Dear Mr. Strong:

Congratulations on the grant you received from Governor Steven L. Beshear and the General Assembly of the Commonwealth of Kentucky awarded during the 2014 Legislative Session of the General Assembly. The Kentucky Infrastructure Authority (KIA) will be administering these funds appropriated for your agency.

No funds can be released until your project meets all grant requirements, is reviewed by Capital Projects and Bond Oversight Committee and has a fully executed grant assistance agreement. Detailed project requirements are outlined in the grant assistance agreement and will be provided to your project administrator.

Please designate your project administrator on Exhibit 1. The project administrator will work with KIA and be responsible for completion of all of the grant documentation and requirements. Your project administrator will be responsible for coordinating proper procurement of all necessary contracts and for completing all requirements of the grant. Please be assured that you will be copied on all essential correspondence and consulted on all decisions regarding your grant.

Your grant funds must be used for the project as identified in the 2014-2016 Biennial Budget of the Commonwealth and as listed above.

Please fill out the attached Exhibit and return to KIA. Once we receive your designation for project administrator, we will contact that person regarding the requirements for receipt of your grant funds. If you have any questions please contact Debby Milton at KIA, 502-573-0260 or Debby.Milton@ky.gov.

Again, we are pleased to be a part of this important effort to improve infrastructure for citizens throughout the Commonwealth. We pledge our full cooperation and look forward to working with you and your project administrator in the coming months.

Sincerely,

John E. Covington, III
Executive Director

Attachments

C: Representative Robert R. Damron
Senator Tom Buford
Karen Leverenz, BGADD
KentuckyUnbridledSpirit.com



An Equal Opportunity Employer M/F/D

EXHIBIT 1

HB235 REAUTHORIZATION REALLOCATION

**Lexington-South Elkhorn Water District – Catnip Hill Pike 1.0MG Elevated Storage Tank Project
\$440,000 - WX21113016 (3N-2014)**

DESIGNATION OF PROJECT ADMINISTRATOR

(Please print or type)

Name: _____

Company or Organization: _____

Address: _____

P.O. Box: _____

City/State/Zip: _____

Phone (include area code): _____

Fax (include area code): _____

E-mail (please print large): _____

WX/SX NUMBER: **WX21113016**

Project administration is an extremely important element of any successful infrastructure project. The Project Administrator will be responsible for assisting the Grantee with procurement of all necessary services and gathering, collating, and presenting all appropriate information necessary for complete project documentation. This individual will serve as the communications link between members of the Project Team and as the principal point of contact for state agencies. This individual will be responsible for keeping all members of the local Project Team on task, setting up and maintaining project files, securing additional resources, and for trouble-shooting whenever necessary. Other duties to be performed by the Project Administrator may include: documenting Project Team meetings; conducting and maintaining records of public meetings; preparing the Environmental Assessment; organizing the effort to secure easements and rights of way; and providing necessary clerical and support services as required.

The services performed by a Project Administrator are professional in nature and must be assigned by the Project Owner/Grantee to a qualified staff person with appropriate time to dedicate to the position or to an individual who specializes in this service. Most often these responsibilities are entrusted to a qualified individual secured either through the standard procurement process pursuant to KRS 45A or through an Area Development District.

**Complete and mail or fax to:
Kentucky Infrastructure Authority
1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601
Phone: 502-573-0260
Fax: 502-573-0157**

H o r n e
E n g i n e e r i n g
n c .

215 South Main Street
Nicholasville, Kentucky 40356
Phone: (859) 885-9441
Fax: (859) 885-5180



W.O.F. 4049

FAXED
2:03 PM

FAX COVER SHEET

DATE: 6-9-14

TO: KIA

COMPANY: Kentucky Infrastructure Authority

FAX #: 502-573-0157

FROM: J. Thacker

SUBJECT: Exhibit 1 - HB 235 Reauthorization
Reallocation

Number of Pages Including Cover Page 2



H o r n e
E n g i n e e r i n g
I n c .

216 South Main Street
Nicholasville, Kentucky 40356
Phone: (859) 885-8441
Fax: (859) 885-5160

W.O.# 4049

FAX COVER SHEET

DATE: 6-9-14

TO: Diana

COMPANY: JSEWD

FAX #: 881-5080

FROM: Judy/NEI

SUBJECT: Proj. Adm form - see attached
which was faxed to KIA
6-9-14 @ 2:03pm

Number of Pages Including Cover Page 3

EXHIBIT 1

HB236 REAUTHORIZATION REALLOCATION

**Jessamine-South Elkhorn Water District - Catnip Hill Pike 1.0MG Elevated Storage Tank Project
3440,000 - WX21113018 (3N-2014)**

DESIGNATION OF PROJECT ADMINISTRATOR

(Please print or type)

Name: John G Horne

Company or Organization: Horne Engineering, Inc.

Address: 216 South Main Street

P.O. Box: _____

City/State/Zip: Nicholasville, Ky 40354

Phone (include area code): 859-885-9441

Fax (include area code): 859-885-5160

E-mail (please print large): john@horneeng.com

WX/SX NUMBER: **WX21113018**

Project administration is an extremely important element of any successful infrastructure project. The Project Administrator will be responsible for assisting the Grantee with procurement of all necessary services and gathering, collating, and presenting all appropriate information necessary for complete project documentation. This individual will serve as the communications link between members of the Project Team and as the principal point of contact for state agencies. This individual will be responsible for keeping all members of the local Project Team on task, setting up and maintaining project files, securing additional resources, and for trouble-shooting whenever necessary. Other duties to be performed by the Project Administrator may include: documenting Project Team meetings, conducting and maintaining records of public meetings; preparing the Environmental Assessment; organizing the effort to secure easements and rights of way; and providing necessary clerical and support services as required.

The services performed by a Project Administrator are professional in nature and must be assigned by the Project Owner/Grantee to a qualified staff person with appropriate time to dedicate to the position or to an individual who specializes in this service. Most often these responsibilities are entrusted to a qualified individual secured either through the standard procurement process pursuant to KRS 35A or through an Area Development District.

Complete and mail or fax to:
Kentucky Infrastructure Authority
1024 Capital Center Drive, Suite 340
Frankfort, Kentucky 40601
Phone: 502-573-0280
Fax: 502-573-0167

Horne Engineering, Inc.

216 SOUTH MAIN STREET • NICHOLASVILLE, KENTUCKY 40356

PH. (859)885-9441 • FAX (859)885-5160

email@horneeng.com



ENGINEERS
LAND SURVEYORS
PLANNERS

July 3, 2014

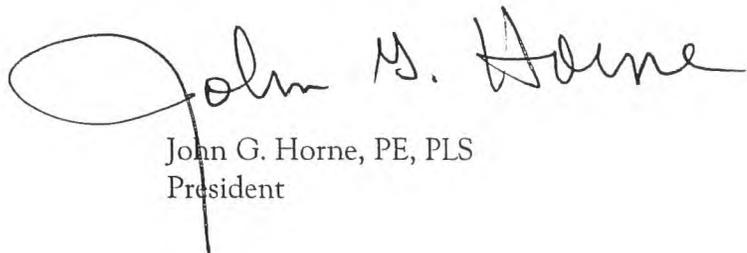
Debby Milton
Kentucky Infrastructure Authority
1024 Capital Center Drive, Suite 340
Frankfort, KY 40601

Re: Catnip Hill Pike
750,000 Gallon Elevated Storage Tank
WX21113016
Grant ID# 3N-2014
Jessamine-South Elkhorn Water District

Dear Debby:

Enclosed please find the Grant Assistance Agreement for the subject project. Upon your review, should you have any questions, comments and/or require additional material, please contact me at (859) 885-9441.

Sincerely,
HORNE ENGINEERING, INC.



John G. Horne, PE, PLS
President

JGH/jt
enc.

cc: Diana Clark w/enc.
Board of Commissioners
Engr/4049
Engr/4044
Corr.

Q:\Projectdir\jsewd\WO4049\KIA-MiltonGrantAgreement.Ltr.Docx



KENTUCKY INFRASTRUCTURE AUTHORITY

2014 GENERAL ASSEMBLY
HOUSE BILL 235
(REAUTHORIZATION REALLOCATION)

GRANT ASSISTANCE AGREEMENT

WRIS NUMBER: WX21113016
PROJECT ID #: 3N-2014
GRANT AMOUNT: \$440,000
GRANTEE: JESSAMINE-SOUTH ELKHORN
WATER DISTRICT
DATE OF AGREEMENT: _____

This agreement will be added to and augments the existing Grant Assistance Agreement Grant ID# 229N-2008. Both will be combined and applied as one project – WX21113016 “Catnip Hill Pike 750,000 Gallon Elevated Storage Tank” (formerly 1MG Elevated Storage Tank).

GRANT ASSISTANCE AGREEMENT

This Grant Assistance Agreement ("Agreement") is made and entered into this date, _____, 2014, by and between the KENTUCKY INFRASTRUCTURE AUTHORITY ("Authority"), a body corporate and politic, constituting a public corporation and governmental agency and instrumentality of the Commonwealth of Kentucky, and the JESSAMINE-SOUTH ELKHORN WATER DISTRICT ("Grantee").

WITNESS

WHEREAS, the General Assembly of the Commonwealth of Kentucky, at its 1988 Regular Session, amended Chapter 224A of the Kentucky Revised Statutes (the "Act"), creating the "Kentucky Infrastructure Authority" to serve the public purposes identified in the Act; and

WHEREAS, the Authority, an agency of the Commonwealth attached to the Governor's Office, is charged pursuant to KRS 224A.300 with coordinating the implementation of infrastructure projects and to this end maintains within the Water Resource Information System, a comprehensive database of profiles of each community's water and wastewater projects; and

WHEREAS, the 2014 General Assembly included in the Commonwealth's 2014-2016 biennial Budget Reauthorization and Reallocation for the Grantee's infrastructure project, the subject of this Agreement; and

WHEREAS, the Grantee now seeks to implement the Project as identified in the 2014-2016 Budget of the Commonwealth and the Authority has determined that the Project is a Project within the meaning of the Act, and has been shown to be consistent with the Area Water Management Plan where applicable; and

WHEREAS, the Grantee and the Authority desire to enter into this Agreement which sets forth their respective duties, rights, covenants, and obligations with respect to the acquisition, construction and financing of the Project described in the Grantee's Project Profile.

NOW THEREFORE, in consideration of the mutual covenants and conditions contained herein and for the other good and valuable consideration, the receipt, mutuality and sufficiency of all of which is hereby acknowledged by the parties hereto, the Authority and the Grantee each agree as follows:

SECTION 1 – DEFINITIONS

All terms utilized herein shall have the same definitions and meaning as ascribed to them in the Act, which are hereby incorporated in this Agreement by reference, the same as if set forth hereby verbatim; provided, however, that those definitions utilized in the Act having general application are hereby modified in certain instances to apply specifically to the Grantee and its Project.

Act shall mean Chapter 224A of the Kentucky Revised Statutes, as amended.

Agreement shall mean this Agreement made and entered into by and between the Grantee and the Authority, as authorized by the Act, providing for a Grant to the governmental agency, unit of government, or private, investor-owned water system by the Authority.

Area Water Management Council shall mean the council designated as the planning body for the area, which shall prepare the Area Water Management Plan and approve all Project Profiles for water and wastewater projects.

Area Water Management Plan shall mean the plan that identifies current and future water supply, drinking water, and wastewater service needs of the area.

Authority shall mean the Kentucky Infrastructure Authority created by the Act as amended, a body corporate and politic, constituting a public corporation and a governmental agency and instrumentality of the Commonwealth of Kentucky, or such other designation as may be effected by future amendments to the Act.

Engineer(s) shall mean the professional engineer or firm of professional engineers properly procured by the Grantee in connection with the Project identified in the Project Profile Database.

Grantee shall mean the JESSAMINE-SOUTH ELKHORN WATER DISTRICT or the designee that is a governmental agency or unit of government or any private, investor owned utility within the Commonwealth eligible for funding under the Program in accordance with the Act, now having been or hereafter being granted the authority and power to finance, acquire, construct, or operate a Project, and for the purposes of this Agreement shall mean that the JESSAMINE-SOUTH ELKHORN WATER DISTRICT identified in the Project Profile or the 2012-2014 biennial Budget of the Commonwealth.

Grant shall mean the funds effected under this Agreement from the Authority to the Grantee in the principal amount set forth in the 2014-2016 Budget of the Commonwealth, for the purpose of defraying the costs incidental to the Project.

Kentucky Water Management Plan shall mean the guide and strategy that incorporates and analyzes each Area Water Management Plan and provides an assessment of future needs and allocation of funding for water and wastewater services throughout the Commonwealth.

Program shall mean the program authorized by KRS 224A.035 for the Authority to engage in a program of assistance to designated entities with respect to the construction and acquisition of water and wastewater infrastructure projects.

Project shall mean, when used generally, water, wastewater or other infrastructure project authorized pursuant to the Act, and when used in specific reference to the Grantee, the Project described in the Project Profile.

Project Administrator shall mean that individual designated in writing to the Authority by the Grantee, who has the responsibility of supervising the Project and coordinating the preparation of all documentation with respect to the Project.

Project Budget shall mean a list of Project expenses and funding sources, in the form set forth in **Exhibit 1**.

Project Profile shall mean those specific details of the Project, approved by the Area Water Management Council as being consistent with the Area Water Management Plan, as applicable.

Rates and Charges shall mean an approved schedule of charges, based on actual cost of service, to adequately provide for retirement of any related debt obligation and to provide for proper operation of the Project.

System shall mean the utility system owned and operated by the Grantee of which the Project shall become a part and from the earnings of which System shall be operated, maintained and insured.

SECTION 2 - OBLIGATIONS OF THE AUTHORITY

The Authority covenants and agrees, conditioned upon the timely performance by the other party of its respective obligations, to undertake the following obligations:

- A. The Authority shall pay to the Grantee the grant sum in an amount not to exceed \$440,000.
- B. The Authority may make periodic reviews of the Project progress and may make inspections of the Project and send inspection reports to the Grantee. Deficiencies identified in the inspection report shall be corrected by the Grantee and the correction reported in writing to the Authority within two weeks of receipt of the Authority's inspection report.
- C. The Authority shall cooperate with the Grantee in order to facilitate the obligations set out in this Agreement.

SECTION 3 - OBLIGATIONS OF THE GRANTEE

The Grantee covenants and agrees to undertake the following obligations:

- A. The Grantee shall, before any funds are released, sign and submit the Agreement, and complete and include the following Exhibits which are incorporated herein and made a part hereof:
1. **Before the Project is bid**, the Grantee shall complete and submit to the Authority the following:
 - a) A Project description in the form of a Project Profile together with the estimated Project Budget, as **Exhibit 1**.
 - b) A copy of the Grantee's Resolution, as **Exhibit 2**, accepting the grant award, amending its budget to allow for receipt and expenditures of these funds, and authorizing a designated individual to execute the Agreement and all other documentation related to the Project.
 - c) A Statement of Agreement to adopt and use the Kentucky Uniform System of Accounting (KUSoA) and assure that rates and charges for water service are based upon the cost or providing such service as **Exhibit 3**, if applicable.
 - d) A schedule of current rates and charges. If there will be a change in the current rate structure as a result of this project, provide the proposed schedule of rates and charges.
 - e) Documentation of **Clearinghouse Endorsement** and Clearinghouse Comments.
 - f) An Application for Electronic Transfer of Funds, as **Exhibit 4**.
 - g) Any additional covenants or agreements that may be required included in **Exhibit 5**.
 2. **After Project is bid**, the Grantee shall complete and submit to the Authority the following:
 - a) A revised Project Budget based on Project bids, as **Exhibit 1**.

The Grantee may request receipt of Grant funds after completion of items in Sections 3. A. 1. and 2. above and full execution of the Agreement. The Authority, upon receipt of Request for Payment and Project Status Report, will release funds. The Request for Payment and Project Status Report must include copies of invoices for costs incurred. The Authority may withhold release of funds until receipt of Administrative Fee pursuant to Section 7.

- B. The Grantee shall perform and/or cause to be performed all necessary acts (consistent with KRS 45A and in accordance with applicable laws) to plan, design and construct the Project including: the procurement of land, easements and rights of way; professional services including engineering fees, including but not limited to architectural and engineering services; construction contractor(s); and equipment and/or materials.
- C. Documentation of **Clearinghouse Endorsement and Clearinghouse Comments**.
- D. The Grantee shall obtain all necessary permits, licenses and approvals from the appropriate federal, state, and/or local governmental entities prior to construction of the Project. Further, the Grantee shall require all construction contractors to pay wages pursuant to applicable prevailing wage rates (federal or state) for all work relating to the subject Project.
- E. The Grantee shall comply with all applicable federal and state statutes, executive orders, regulatory requirements, and policies relating to the planning and construction of the Project.
- F. The Grantee shall provide to the Authority access to all records related to the Project for review in determining compliance with the Grant Agreement and all applicable laws and regulations. The Grantee shall retain all records, including all invoices, relating to the Project for three years after full execution of **Exhibit 6** - Certificate of Completion.
- G. The Grantee shall cooperate fully with the Authority and provide any documentation requested by the Authority in order to facilitate the obligations set out in this Agreement.
- H. Any unauthorized or improper expenditure of funds, or expenditure of funds other than in accordance with the terms of this Agreement, shall be deemed a default of this Agreement by the Grantee.
- I. The Grantee will proceed expeditiously with and complete the Project in accordance with the approved final design, plans and specifications or amendments thereto, prepared by the Project Engineer for the Grantee and as approved by the appropriate state and federal agencies.
- J. The Grantee agrees that throughout the reasonable life of the infrastructure facilities developed under this Project it will retain ownership of, operate, and

maintain these facilities, and all appurtenances thereto, keeping them in good and sound repair and good operating condition at its own expense so that the completed Project will continue to provide the services for which it was designed. Change of ownership or disposal of the Project facilities may occur only with written approval of the Authority.

- K. The Grantee agrees that it will at all times impose, charge and collect sufficient customer Rates and Charges.
- M. The Grantee shall submit the fully executed Certificate of Completion once all Project construction related activities are complete.
- N. The Grantee shall submit a digital copy (pdf) of the record drawings directly to KIA within three months of construction completion.
- O. Upon completion of project, the Area Development District will conduct an Onsite Inspection/Certification of the project.

SECTION 4 - MUTUALITY OF OBLIGATIONS

- A. The parties agree that the funds granted by the Commonwealth to the Grantee are to be used solely for the purposes of implementing the Project. Further the parties agree that the obligations imposed upon them are for their respective benefit and the timely fulfillment of each and every obligation in accordance with this Agreement is necessary. The failure of either party to fulfill its obligations under this Agreement shall constitute a breach of same.
- B. In the event of default by the Grantee, including the failure to take actions directed herein and/or to comply with time deadlines set out in this Agreement, the Authority may declare this Agreement void from the beginning without further obligation to the Grantee and may commence appropriate legal action to enforce its rights under this Agreement including action for recovery of funds expended hereunder.
- C. Except as may otherwise be provided herein, the parties to this Agreement shall be solely responsible for any costs incurred in fulfilling their respective obligations under this Agreement and neither party shall have any claim against the other party for reimbursement of costs whether or not a party is in default.

SECTION 5 - TERMS OF AGREEMENT

- A. All funds made available under this Agreement are subject to reauthorization by subsequent General Assemblies of the Commonwealth of Kentucky. Should funding for the Project not be reauthorized this agreement shall terminate.
- B. This Agreement shall be valid only after all signatories have signed.

- C. This Agreement may be terminated by either party at any time for cause and may be terminated by either party without cause upon 30 days written notice to the other party. Termination of this Agreement shall not diminish or in any other manner affect any other remedy that may be available to the parties for any breach of the Agreement that occurs prior to the termination.
- D. If additional financial assistance for this project becomes available to the Grantee after execution of this agreement, the amount of the assistance from the Authority shall be recalculated with the inclusion of the additional assistance, and the Grantee shall pay to the Authority the amount, if any, by which the grant actually made, exceeds the grant as determined by the recalculation.

SECTION 6 - ADVANCE FUNDING FOR PROJECT PLANNING AND DESIGN

- A. The Grantee may request, in writing, that a portion of the grant funds be disbursed prior to Project bidding to pay a portion of the cost of Project planning and design directly related to submission of the Project plans and specifications for review by the Division of Water and the Public Service Commission, as may be required.
- B. Funds disbursed under this Section of the Agreement shall not exceed 50% of the Project planning and design amount as established in the guidelines as set forth in the Engineering Contract between the Grantee and the Engineering Firm.
- C. Funds received under provisions of this Section shall be used solely for planning and design costs of the Project.
- D. No funds shall be released under this Section until the requirements of Section 3. A. 1. of this Agreement have been met.

SECTION 7 - ADMINISTRATIVE FEE

The Grantee agrees to pay to the Authority an administrative fee (the "Administrative Fee") equal to $\frac{1}{2}$ of 1% of the principal amount of the Grant. The Administrative Fee shall be due and payable on the date the Grantee's initial Request for Payment and Project Status Report is submitted to the Authority. Administrative fees are applicable for Grantees identified under the Sections of the 2014-2016 Budget of the Commonwealth as Coal Producing Counties and Non-Coal Producing Counties only.

SECTION 8 - MISCELLANEOUS PROVISIONS

- A. This Agreement may be signed by each party on a separate copy, and in such case one counterpart of this Agreement shall consist of a sufficient number of

such copies to reflect the signature of each party hereto. This Agreement may be executed in two or more counterparts each of that shall be deemed an original, and it shall not be necessary in making proof of this Agreement or the terms and conditions hereof to produce or account for more than one of such counterparts.

- B. The headings set forth in this Agreement are only for convenience or reference and the words contained therein shall in no way be held to explain, modify, amplify or aid in the interpretation, construction or meaning of the provisions of this Agreement.
- C. The terms and conditions of this Agreement shall be binding upon and shall inure to the benefit of the successor and assigns, respectively, of the parties. This provision shall not be construed to permit an assignment by any party of any of its rights and duties under this Agreement which assignment shall be prohibited except with the prior written consent of the parties hereto.
- D. This Agreement sets forth the entire understanding of the parties with respect to the subject matter hereof, and may be modified only by a written instrument duly executed by each of the parties hereto.
- E. Timely and accurate performance of all actions by the respective parties are mutually recognized by the parties hereto to be of great importance to the citizens of the Commonwealth generally, and particularly to those citizens directly affected by the Project subject of this Agreement.
- F. The parties agree that any suit, action or proceeding with respect to this Agreement may only be brought into or entered by, as the case may be, the courts of the Commonwealth of Kentucky situated in Frankfort, Franklin County, Kentucky or the United States District Court for the Eastern District of Kentucky, Frankfort Division.
- G. The Authority may audit or review all documentation and records of the Grantee relating to this Project pursuant to the provisions of KRS 45A.150.
- H. The Grantee agrees that the Authority, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Furthermore, any books, documents, papers records, or other evidence provided to the Commonwealth, the Finance and Administration Cabinet, the Auditor of Public Accounts, or the Legislative Research Commission which are directly pertinent to the contract shall be subject to public disclosure regardless of the proprietary nature of the information, unless specific information is identified and exempted and agreed to by the Secretary of the Finance and Administration Cabinet as meeting the provisions of KRS 61.878(1)(c) prior to the execution of the contract. The Secretary of the Finance and Administration Cabinet shall not restrict the

public release of any information which would otherwise be subject to public release if a state government agency was providing the services.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective duly authorized officers as of the day and year above written.

DATE: _____

EXAMINED:

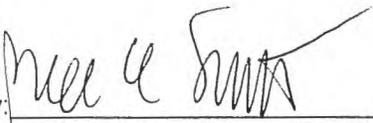
KENTUCKY INFRASTRUCTURE AUTHORITY

LEGAL COUNSEL TO THE
KENTUCKY INFRASTRUCTURE AUTHORITY

By: _____
EXECUTIVE DIRECTOR

GRANTEE: JESSAMINE-SOUTH ELKHORN WATER DISTRICT

ATTEST

By: 

LEGAL COUNSEL TO THE GRANTEE

By: 

AUTHORIZED OFFICIAL

REQUIRED EXHIBITS - CHECKLIST

STEP 1, Before Project is Bid:

- | | |
|---|-----|
| 1. Executed Grant Assistance Agreement | Yes |
| 2. Assignment & Assumption Agreement or Interlocal Agreement (if applicable) | N/A |
| 3. Exhibit 1 - Project Profile and Estimated Project Budget | Yes |
| 4. Exhibit 2 – Resolution | Yes |
| 5. Exhibit 3 - Statement of Agreement re KUSOA & Cost-based Rates | Yes |
| 6. Schedule of Current (and proposed if applicable) Rates and Charges | Yes |
| 7. State Applicator Identifier # (SAI) assigned to project prior to Clearinghouse Endorsement | Yes |
| 8. Exhibit 4 - Application for Electronic Transfer of Funds | Yes |

STEP 2, After Project is Bid:

- | | |
|--|-----|
| 1. Exhibit 1 - Revised Project Budget based on Project Bids | |
| 3. Exhibit 5 – Additional Covenants and Agreements (if applicable) | |
| 4. Other Funding Commitment (if applicable) | |
| 6. Documentation of Clearinghouse Endorsement and Comments | Yes |

STEP 3, Project Closeout:

- | | |
|--|--|
| 1. Final Design (within three months of construction completion, please provide directly to KIA a digital copy (pdf) of the record drawings from of the project. | |
| 3. Fully executed Certificate of Completion | |
| 4. Fully executed Onsite Inspection/Certification (to be conducted by the ADD along with project administrator) | |

EXHIBIT 1

PROJECT PROFILE & PROJECT BUDGET

Please attach the WX21113016 Project Profile and Project Budget

PROJECT ID # 3N-2014
and
PROJECT ID# 229N-2008

The Project Profile and Project Budget apply to both Grant Assistance Agreements. The project profile was updated March 21, 2014 and the GIS was updated March 24, 2014 to reflect the decrease in the tank size and the commitment of the \$440,000.00 to the project.



Drinking Water Project Profile

Legal Applicant: **Jessamine-South Elkhorn Water District**

Project Title: **Catnip Hill Pike 750,000 Gallon Elevated Storage Tank**

Project Number: **WX21113016** [View Map](#)

Submitted By: **BGADD**

Funding Status: **Partially Funded**

Primary County: **Jessamine**

Project Status: **Approved**

Planning Unit: **Unit 6**

Project Schedule: **0-2 Years**

Multi-County: **No**

E-Clearinghouse SAI: **KY201404070323**

ECH Status: **Endorse With Condition**

Applicant Entity Type: **Water District (KRS 74)**

ADD WMC Contact: **Karyn Leverenz**

Date Approved (AWMPC): **10-21-2005**

Project Description:

Jessamine South Elkhorn Water District proposes to construct a 750,000 gallon elevated storage tank on property which they own on Catnip hill pike. The proposed site is in close proximity to the district's existing elevated storage for the northwest service area and adjacent to an existing 12" main. Therefore, no line extensions or pumpstations will be required.

Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The proposed 750,000 gallon tank will provide additional storage capacity to allow the District to meet PSC regulations and also provide fire and emergency storage.

Project Alternatives:

Alternate A:

Construct a smaller tank at lesser cost.

Alternate B:

Purchase storage volume from supplier (Kentucky American Water Company).

Alternate C:

Initiate water purchase contract with dedicated storage from the City of Wilmore.

Legal Applicant:

Entity Type: **Water District (KRS 74)**

PSC Group ID: **24300**

Entity Name: **Jessamine-South Elkhorn Water District**

Web URL:

Office EMail: **jessaminesouth@windstream.net**

Office Phone: **859-881-5080**

Toll Free:

Fax:

Mail Address Line 1: **PO Box 731**

Phys Address Line 1:

Mail Address Line 2:

Phys Address Line 2:

Mail City, State Zip: **Nicholasville, KY 40356**

Phys City, State Zip:

Contact: **Diana Clark**

Auth Official: **Nick Strong**

Contact Title: **Office Manager**

Auth Official Title: **Chairman**

Contact EMail: **jessaminesouth@windstream.net**

Auth Official EMail: **nickocis@aol.com**

Contact Phone: **859-881-0589**

Auth Official Phone: **859-621-6200**

Contact Cell:

Auth Official Cell:

Data Source: **Kentucky Infrastructure Authority**

Date Last Modified: **10.03.2012**



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Project Administrator (PA) Information

Name: **John G Horne**

Title: **Consulting Engineer**

Organization: **Horne Engineering**

Address Line 1: **216 South Main Street**

Address Line 2:

City: **Nicholasville** State: **KY** Zip: **40356**

Phone: **859-885-9441** Fax: **859-885-5160**

Applicant Contact (AC) Information

Name: **Richard Decker**

Title: **Assistant District Manager**

Organization: **Jessamine-South Elkhorn Water District**

Address Line 1: **802 S Main St**

Address Line 2:

City: **Nicholasville** State: **KY** Zip: **40340**

Phone: **859-881-0589** Fax: **859-881-5080**

Project Engineer (PE) Information:

This project requires a licensed Professional Engineer.

License No: **PE 6510**

PE Name: **John G. Horne**

Phone: **859-885-9441** Fax:

E-Mail: **john@horneeng.com**

Firm Name: **Horne Engineering, Inc.**

Addr Line 1: **Horne Engineering, Inc.**

Addr Line 2: **216 South Main St.**

Addr Line 3:

City: **Nicholasville** State: **KY** Zip: **40356**

Status: **Current** Disciplinary Actions: **NO**

Issued: **04-10-1967** Expires: **06-30-2015**

Engineering Firm Information:

Permit No: **677**

Firm Name: **Horne Engineering, Inc.**

Phone: **859-885-9441** Fax: **859-885-5160**

Web URL:

E-Mail: **john@horneeng.com**

Addr Line 1: **216 South Main Street**

Addr Line 2:

City: **Nicholasville** State: **KY** Zip: **40356**

Status: **Current** Disciplinary Actions: **NO**

Issued: **11-09-1993** Expires: **12-31-2014**



Drinking Water Project Profile
 WX21113016 - Jessamine-South Elkhorn Water District
 Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Estimated Budget

Project Cost Classification:

Administrative Exp.:	\$ 35,000
Legal Exp.:	\$ 25,000
Land, Appraisals, Easements:	
Relocation Exp. & Payments:	
Planning:	
Engineering Fees - Design:	\$ 125,000
Engineering Fees - Construction:	\$ 45,000
Engineering Fees - Inspection:	\$ 85,000
Engineering Fees - Other:	
Construction:	\$ 1,510,000
Equipment:	
Miscellaneous:	
Contingencies:	\$ 175,000
Total Project Cost:	\$ 2,000,000

Construction Cost Categories:

Treatment:	
Transmission & Distribution:	
Source:	
Storage:	\$ 1,510,000
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Catagorized:	
Total Construction:	\$ 1,510,000

Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

Project Funding Sources:

Total Project Cost:	\$2,000,000
Total Committed Funding:	\$1,440,000
Funding Gap:	\$560,000 (Partially Funded)

This project will be requesting SRF funding for Federal FY 2015.

Detailed Project Schedule:

Environmental Review Status:	
RD Approval Date:	
CDBG Approval Date:	
No approval, but Cross-Cutter Scoping Completed:	06-01-2014
Construction Permit Application Date:	06-15-2014
Construction Permit Application Status:	Submitted
Estimated Bid Date:	09-01-2014
Estimated Construction Start Date:	11-15-2014

Funding Source	Amount	Funding Status	Applicable Date
HB 608 Non-Coal Grant	\$1,000,000	Committed	4/28/2008
HB 380 Non-Coal Grant	\$110,000	Committed	4/24/2006
HB 380 Community Development Grant	\$180,000	Committed	4/24/2006
HB 380 Non-Coal Grant	\$150,000	Committed	4/24/2006
KRWA Loan	\$560,000	Applied For	8/1/2012
Total:	\$2,000,000		



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Following systems are beneficiaries of this project:

KY0570249 Jessamine- South Elkhorn Water District

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:

Regional Ranking(s):

Planning Unit Ranking:

Total Points:

Plans and specs have been sent to DOW.

Plans and specs have been reviewed by DOW.

Plans and specs have been sent to PSC.

Plans and specs have been reviewed by PSC.

Economic, Demographic and Geographic Impacts

Economic Impacts	
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Serviceable Demographic	Project Area	Included Systems	Included Utilities
Population:		7,690	7,690
Households:		2,977	2,977
MHI:		\$90,427	*\$90,427

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset. MHI Source is from the American Community Survey 2008-2012 5Yr Estimates (Table B19013) *(for the primary system operated by the above listed beneficiary utilities).

Geographic Impacts For Project Area	
Counties	
Jessamine	
Legislative Districts	
District Name	Legislator
House 039	Robert R. Damron
Senate 22	Tom Buford
Congressional 6	Andy Barr
HUC 11 Watersheds	
HUC Code	Watershed Name
05100205220	Clear Creek

Geographic Impacts For Included System(s)	
Counties	
Fayette	
Jessamine	
Woodford	
Legislative Districts	
District Name	Legislator
House 039	Robert R. Damron
House 045	Stan Lee
House 056	James Kay
Senate 07	Julian M. Carroll
Senate 12	Alice Forgy Kerr
Senate 22	Tom Buford
Congressional 2	Brett Guthrie
Congressional 6	Andy Barr

New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	2,400	
To Total Households:	2,400	
** Cost Per Household:	\$833	

* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

** Cost per household is based on surveyed household counts, not GIS overlay values.

DW Specific Impacts:

- This project relates to a public health emergency.
- This project will assist a non-compliant system to achieve compliance.
- This project will assist a compliant system to meet future requirements
- This project will provide assistance not compliance related.
- This project will address the terms of the Court Order and/or Agreed Order.
- The system(s) involved with this project have achieved voluntary compliance with violations before being referred for an enforcement case.



Drinking Water Project Profile
 WX21113016 - Jessamine-South Elkhorn Water District
 Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Project Inventory (Mapped Features):

Point Features:

DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units
KY0570249	1	WATER TANK	TANK - INCREASE STORAGE	NEW		750,000.00	GALLONS

Administrative Components:

- Planning
 Design
 Construction
 Management

Regionalization Components:

Public Water Systems Eliminated:

- This project includes the elimination of public water system(s) through merger or acquisition.

Water Treatment Plants Eliminated:

- This project includes the elimination of water treatment plant(s) through interconnect(s).

Supplementation of Raw Water Supply:

- This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

- This project includes supplementing the existing potable water supply.

Emergency Only Water Supply:

- This project provides emergency only water supply.

Water Source Protection:

- This project includes land acquisition for water source protection.

Water Treatment Components:

- This project includes water treatment components

Treatment Activities:

- This project includes a new water treatment plant.
- This project includes an expansion of an existing water treatment plant.
- This project includes rehabilitation of an existing water treatment plant.
- This project includes upgrades to an existing water treatment plant.
- This project includes emergency power generators for treatment activities.
- This project includes redundant treatment processes.



Drinking Water Project Profile
WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Acute Public Health Risk:

- This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.
- This project includes infrastructure options to meet CT inactivation requirements.

Chronic Public Health Risk:

- This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant.
- This project will provide treatment modifications for VOCs, IOC, SOC, or Radionuclides.

Secondary Contaminants:

- This project includes treatment modifications to address Secondary Contaminants.

Security:

- This project includes security components for water treatment facilities.

Water Distribution and Storage:

- This project includes water distribution and/or storage components.

Water Line Extensions:

- This project includes water line extension(s).

Redundancy Components:

- This project includes emergency power generators for distribution and/or storage activities.

Number of units provided: 0

- This project includes redundant distribution and/or storage processes.

Finished Water Quality:

- This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).

Number of loops created:

- This project includes a tank mixing system.

Proper line sizing, flushing hydrants

- This project includes infrastructure to address inability to maintain disinfection residual.

Proper line sizing, proper tank size.

Water Line Replacement:

- This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines.



Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

Component	Cost
<input type="checkbox"/> Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	
<input type="checkbox"/> Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	
<input type="checkbox"/> Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	
<input type="checkbox"/> Retrofitting/adding AMR capabilities or leak equipment to existing meters.	
<input type="checkbox"/> Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	
<input type="checkbox"/> Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	
<input type="checkbox"/> Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	
<input type="checkbox"/> Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	
<input type="checkbox"/> Water meter replacement with traditional water meters.*	
<input type="checkbox"/> Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	
<input type="checkbox"/> Storage tank replacement/rehabilitation to reduce water loss.*	
<input type="checkbox"/> New water efficient landscape irrigation system, where there currently is not one.*	
Total Water Efficiency Cost:	\$0

** Indicates a business case may be required for this item.*

There are no Water Efficiency components specified for this project.

Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

Component	Cost
<input type="checkbox"/> Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	
<input type="checkbox"/> Utility-owned or publicly-owned renewable energy projects.	
<input type="checkbox"/> Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	
<input type="checkbox"/> Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs)).*	
<input type="checkbox"/> Pump refurbishment to optimize pump efficiency.*	
<input type="checkbox"/> Projects that result from an energy efficient related assessment.*	
<input type="checkbox"/> Projects that cost effectively eliminate pumps or pumping stations.*	
<input type="checkbox"/> Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	
<input type="checkbox"/> Upgrade of lighting to energy efficient sources.*	
<input type="checkbox"/> Automated and remote control systems (SCADA) that achieve substantial energy savings.*	
Total Energy Efficiency Cost:	\$0

** Indicates a business case may be required for this item.*

There are no Energy Efficiency components specified for this project.



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

Component	Cost
<input type="checkbox"/> Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	
<input type="checkbox"/> Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	
<input type="checkbox"/> Source water protection planning (delineation, monitoring, modeling).	
<input type="checkbox"/> Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	
<input type="checkbox"/> Utility sustainability plan consistent with EPA's sustainability policy.	
<input type="checkbox"/> Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	
<input type="checkbox"/> Construction of US Building Council LEED certified buildings, or renovation of an existing building.	
<input type="checkbox"/> Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	
<input type="checkbox"/> Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	
<input type="checkbox"/> Trenchless or low impact construction technology.*	
<input type="checkbox"/> Using recycled materials or re-using materials on-site.*	
<input type="checkbox"/> Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	
<input type="checkbox"/> Projects that achieve the goals/objectives of utility asset management plans.*	
Total Environmentally Innovative Cost:	
\$0	

* Indicates a business case may be required for this item.

There are no Environmentally Innovative components specified for this project.

Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Amanda Yeary (Amanda.Yeary@ky.gov) for DW projects.

Component

- The system(s) has a Capital Improvement Plan or similar planning document.
- The system(s) involved in this project have developed appropriate rate structures to build, operate, and maintain.
- The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

There are no Asset Management components specified for this project.

Project Status: Approved

Date Approved: 10-21-2005

Date Revised:



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

KENTUCKY INFRASTRUCTURE AUTHORITY

DESSAMINE-SOUTH ELKHORN WATER DISTRICT

WX21113016

Project ID# 3N-2014

Estimated

As Bid

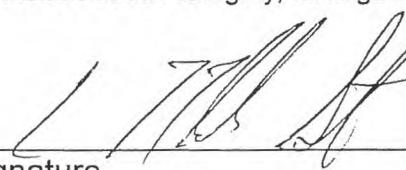
Revised

Cost Classification		Amount
1	Administrative Expenses (1)	\$35,000
2	Legal Expenses	\$25,000
3	Land, Appraisals, Easements	-0-
4	Relocation Expense & Payments	-0-
5	Planning (2)	-0-
6	Engineering Fees - Design	\$125,000
7	Engineering Fees - Construction	\$45,000
8	Engineering Fees - Inspection	\$85,000
9	Construction	\$1,510,000
10	Equipment	-0-
11	Contingency	\$175,000
12	Other	-0-
	Total	\$2,000,000

Funding Sources		Amount	Date Committed
1	HB 608 Non-Coal Grant (229N-2008)	\$1,000,000	04/28/2008
2	HB 235 Reauthorization/Reallocation (3N-2014)	\$440,000	April 2014
3	KRWA Loan	\$560,000	Applied For
4			
5			
6			
	Total	\$2,000,000	

(1) Include Interim Financing

(2) Include in this category, all negotiated fees not included in the RD fee scale calculation



 Signature

Chairman

 Title

7-2-14

 Date

EXHIBIT 2

PROJECT ID # *3N-2014*

RESOLUTION OF THE JESSAMINE-SOUTH ELKHORN WATER DISTRICT (GRANTEE) ACCEPTING THE GRANT, APPROVING THE GRANT AGREEMENT, AUTHORIZING THE AMENDMENT OF LOCAL BUDGET, AND AUTHORIZING A REPRESENTATIVE TO SIGN ALL RELATED DOCUMENTS

WHEREAS, the General Assembly has appropriated funds for infrastructure projects in the 2014-2016 Budget of the Commonwealth; and

WHEREAS, the Grantee has previously determined that it is in the public interest to acquire and construct certain facilities and improvements to the Grantee's utility system (the "Project"); and

WHEREAS, the Grantee desires funding from the Kentucky Infrastructure Authority (the "Authority") for the purpose of acquisition and construction of the Project.

NOW, THEREFORE, BE IT RESOLVED by the Commissioners of the Jessamine-South Elkhorn Water District as follows:

SECTION 1. That the Grantee hereby accepts the grant award and approves the Agreement between the Grantee and the Authority substantially in the form on file with the Grantee for the purpose of providing a portion of the necessary financing to the Grantee for the acquisition and construction of the Project.

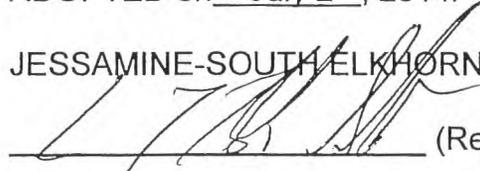
SECTION 2. That L. Nicholas Strong, Chairman is hereby authorized, directed and empowered by the Grantee to execute the Agreement and all other necessary documents or agreements, and to otherwise act on behalf of the Grantee to implement the Project.

SECTION 3. That the Grantee hereby includes in its annual budget the receipt and expenditures of funds subject to the Agreement with the Authority.

SECTION 4. This Agreement shall take effect immediately upon passage.

ADOPTED on July 2, 2014.

JESSAMINE-SOUTH ELKHORN WATER DISTRICT (Grantee)



(Representative)

Title Chairman

CERTIFICATE

I, the undersigned, hereby certify that I am the duly qualified and acting Secretary of the Jessamine-South Elkhorn Water District; that the foregoing is a full, true and correct copy of a Resolution adopted by the governing authority of said Grantee at a meeting duly held on July 2, 2014; that said official action appears as a matter of public record in the official records or journal of the governing authority; that said meeting was held in accordance with all applicable requirements of Kentucky law, including KRS 61.810, 61.815, 61.820 and 61.825; that a quorum was present at said meeting; that said official action has not been modified, amended, ~~repealed~~ or repealed and is now in full force and effect.

IN TESTIMONY WHEREOF, witness by me this 2nd day of July, 2014.

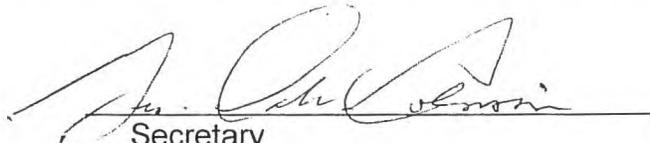

Secretary

EXHIBIT 3

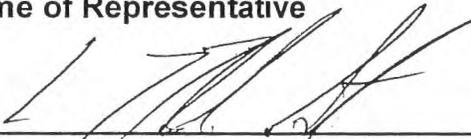
**STATEMENT OF AGREEMENT
TO UTILIZE
KENTUCKY UNIFORM SYSTEM OF ACCOUNTING AND COST-BASED RATES**

I hereby certify that the Grantee cited below agrees, as a condition of fund award, to adopt and use, within 12 months of the end of the Grantee's current fiscal year, the Kentucky Uniform System of Accounting or an alternative process (to be approved by the Kentucky Infrastructure Authority) unless grantee has previously certified adoption by an earlier date, if that being the case I certify that grantee is in compliance with the previously executed agreement. I also certify that rates and charges for water service will be based upon the cost of providing such service. The Kentucky Uniform System of Accounting may be viewed at: <http://wris.state.ky.us/kia/KUSoA.htm>.

Signed:

Jessamine-South Elkhorn Water District
Name of Grantee

Nick Strong, Chairman
Name of Representative


Signature

July 2, 2014
Date

**SCHEDULE OF CURRENT (AND PROPOSED IF APPLICABLE)
RATES AND CHARGES**

WX21113016

3N-2013

\$440,000

229N-2008

\$1,000,000

Rates Attached

FOR Northwest & Southeast Jessamine County
Community, Town or City

P.S.C. K.Y. NO. 2

20th Revised SHEET NO. 2

CANCELLING P.S.C. K.Y. NO. 2

19th Revised SHEET NO. 2

Jessamine-South Elkhorn Water District
(Name of Utility)

RATES & CHARGES

A. Monthly Rates:

5/8" x 3/4" Meter:

First 2,000 gallons	\$26.28	Minimum Bill
Next 2,000 gallons	7.49	per 1,000 gallons
Next 2,000 gallons	7.39	per 1,000 gallons
Next 10,000 gallons	7.29	per 1,000 gallons
Next 8,000 gallons	7.19	per 1,000 gallons
Over 24,000 gallons	7.09	per 1,000 gallons

1" Meter:

First 10,000 gallons	\$85.20	Minimum Bill
Next 6,000 gallons	7.29	per 1,000 gallons
Next 8,000 gallons	7.19	per 1,000 gallons
Over 24,000 gallons	7.09	per 1,000 gallons

2" Meter:

First 24,000 gallons	\$186.46	Minimum Bill
Over 24,000 gallons	7.09	per 1,000 gallons

A \$6.50 per month surcharge will be assessed to all Southeast users served by the water expansion project.

All meters shall be read to the nearest ten gallons each month.

DATE OF ISSUE April 16, 2014
Month / Date / Year

DATE EFFECTIVE November 5, 2013
Month / Date / Year

ISSUED BY [Signature]
(Signature of Officer)

TITLE Chairman

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION

IN CASE NO. 2013-00401 DATED December 3, 2013

KENTUCKY PUBLIC SERVICE COMMISSION
JEFF R. DEROUEN EXECUTIVE DIRECTOR
TARIFF BRANCH <u>Brent Kirtley</u>
EFFECTIVE 11/5/2013
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

JSEWD RATES
 (EFFECTIVE NOVEMBER 5, 2013)

5/8" Meter - Connection Fee \$950.00 (effective July 10, 2013)

First 2,000 gallons	26.28	Minimum Bill	26.28
Next 2,000 gallons	7.49	per 1000 gals	14.98
Next 2,000 gallons	7.39	per 1000 gals	14.78
Next 10,000 gallons	7.29	per 1000 gals	72.90
Next 8,000 gallons	7.19	per 1000 gals	57.52
Over 24,000 gallons	7.09	per 1000 gals	

1" Meter - Connection Fee \$1200.00 (effective July 10, 2013)

First 10,000 gallons	85.20	Minimum Bill	85.20
Next 6,000 gallons	7.29	per 1000 gals	43.74
Next 8,000 gallons	7.19	per 1000 gals	57.52
Over 24,000 gallons	7.09	per 1000 gals	

2" Meter

First 24,000 gallons	186.46	Minimum Bill	186.46
Over 24,000 gallons	7.09	per 1000 gals	

Sewer

First 2,000 gallons	20.14	Minimum Bill	20.14
Over 2,000 gallons	10.07	per 1000 gals	

* 3% Utility Tax on all usage

** 6% Sales Tax on Commercial usage

*** \$6.50/per month Surcharge on all Southeast customers

**** All Water Renters - \$50.00 Reimbursable Deposit

**** All Sewer Renters - \$75.00 Reimbursable Deposit

***** Billing 20th of each month - 10% penalty after 10 days
 service locked after 20 days - \$25 reconnecting fee

STATE APPLICATOR IDENTIFIER # (SAI)

**Catnip Hill Pike 750,000 Gallon Elevated Storage Tank
WX21113016
3N-2014
229N-2008
SAI# KY20140407-0323**

**Clearinghouse Endorsement
With Heritage Council Concurrence**



STEVEN L. BESHEAR
GOVERNOR

DEPARTMENT FOR LOCAL GOVERNMENT
OFFICE OF THE GOVERNOR
1024 CAPITAL CENTER DRIVE, SUITE 340
FRANKFORT, KENTUCKY 40601-8204
PHONE (502) 573-2382 FAX (502) 573-2939
TOLL FREE (800) 346-5606
WWW.DLG.KY.GOV

TONY WILDER
COMMISSIONER

April 25, 2014

Mr. John Horne
Horne Engineering, Inc.
216 S. Main Street
Nicholasville, KY 40356

RE: Catnip Hill Pike 750,000 Gallon Elevated Storage Tank
WX21113016
SAI# KY20140407-0323
CFDA# 10.760

Dear Mr. Horne:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, has completed its evaluation of your proposal. The clearinghouse review of this proposal indicates there are no identifiable conflicts with any state or local plan, goal, or objective. Therefore, the State Clearinghouse recommends this project be approved for assistance by the cognizant federal agency.

Although the primary function of the State Single Point of Contact is to coordinate the state and local evaluation of your proposal, the Kentucky State Clearinghouse also utilizes this process to apprise the applicant of statutory and regulatory requirements or other types of information which could prove to be useful in the event the project is approved for assistance. Information of this nature, if any, concerning this particular proposal will be attached to this correspondence.

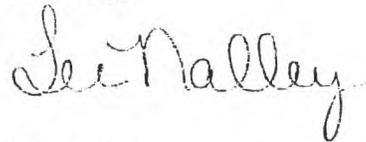
You should now continue with the application process prescribed by the appropriate funding agency. This process may include a detailed review by state agencies that have authority over specific types of projects.

This letter signifies only that the project has been processed through the State Single Point of Contact. It is neither a commitment of funds from this agency or any other state or federal agency.

The results of this review are valid for one year from the date of this letter.
Continuation or renewal applications must be submitted to the State Clearinghouse annually.
An application not submitted to the funding agency, or not approved within one year after
completion of this review, must be re-submitted to receive a valid intergovernmental review.

If you have any questions regarding this letter, please feel free to contact my office at
502-573-2382.

Sincerely,

A handwritten signature in cursive script that reads "Lee Nalley". The signature is written in black ink and is positioned below the word "Sincerely,".

Lee Nalley
Kentucky State Clearinghouse

Attachments

The KY Dept. of Transportation has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

Blair (7), Bret: In the event construction activities encroach upon state maintained right of way, it may become necessary to obtain a standard encroachment permit. Permit requests and questions may be directed to: Ricky Sizemore, District Seven Highway Dept. Permits Engineer, 763 W New Circle Road, Lexington, KY 40512 (859.246.2355 / ricky.sizemore@ky.gov).
[Reviewer: Bret Blair, D7-Planning / 859.246.2355 / bret.blair@ky.gov]

The Kentucky Housing Corporation has made the following advisory comment pertaining to State Application Identifier Number KY201404070323
No comments.

The Kentucky Infrastructure Agency has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

Project reviewed in the WRIS Project Profile by KIA staff.

The Labor Cabinet has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

PW RATES MAY APPLY IF PROJECT COST EXCEEDS \$250,000.00. CONTACT KY LABOR CABINET AT 502 564 3534

The KY State Fish & Wildlife has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

Based on the information provided, the Kentucky Department of Fish & Wildlife Resources has no comments concerning the proposed project. Please contact Dan Stoelb @ 502-564-7109 ex. 4453 or Daniel.Stoelb@ky.gov if you have further questions or require additional information.

The Natural Resources has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

This review is based upon the information that was provided by the applicant through the Clearinghouse for this project. An endorsement of this project does not satisfy, or imply, the acceptance or issuance of any permits, certifications, or approvals that may be required from this agency under Kentucky Revised Statutes or Kentucky Administrative Regulations. Such endorsement means this agency has found no major concerns from the review of the proposed project as presented other than those stated as conditions or comments.

The Jessamine South Elkhorn Water District will need to get this tank approved by the Public Service Commission. A 1,000,000 gallon water storage tank in this area was previously denied by the Public Service Commission. Mark Rasche, Water Infrastructure Branch, (502) 564-3410, Mark.Rasche@ky.gov.

The proposed project is subject to Division of Water (DOW) jurisdiction because the following are or appear to be involved: water storage tank construction. Prior approval must be obtained from the DOW before construction can begin. The applicant must cite the State Application Identifier (SAI #KY201404070323) when submitting plans and specifications.

This project is consistent with the Jessamine County Water Management Plan. It is approved for water management planning. It is approved for water withdrawal by the Water Quantity Management Section of DOW. From the application data, DOW ascertains that the proposed project is not located in a floodplain area; therefore, a floodplain construction permit is not required for this project. Julia Harrod, Watershed Management Branch, (502) 564-3410, Julia.Harrod@ky.gov.

Jessamine South Elkhorn Water District proposes to construct a 750,000 gallon elevated storage tank on property which they own on Catnip Hill Pike. The proposed site is in close proximity to the district's existing elevated storage for the northwest service area and adjacent to an existing 12-inch main; therefore, no line extensions or pump stations will be required. Completion of this project will provide improved water service to 2,400 households, 60 commercial entities, and 3 miscellaneous entities (schools, churches, etc.).

The Engineering Section of the Water Infrastructure Branch of the DOW will review this project when it is submitted for a construction permit. Since this project as described mentions another tank in the same area and the Public Service Commission concerns, hydraulic calculations will need to be submitted with how all tanks in this pressure zone will operate. DOW wants all tanks to cycle completely within seventy-two hours. Excessive storage may result in the tanks not being able to cycle completely within seventy-two hours and could lead to the formation of disinfection byproducts (DBPs), even with water disinfected with chloramines. The Engineering Section will approve this project if it is satisfied that the construction of this tank will not result in disinfection byproducts or nitrification of the water. Construction shall not begin until written approval is received from the DOW. Mark Rasche, Water Infrastructure Branch, (502) 564-3410, Mark.Rasche@ky.gov.

After speaking with the engineer representing the utility, there are not any objections to this project. Byron Bland, Water Infrastructure Branch, (502) 564-3410, Byron.Bland@ky.gov.

Best management practices shall be utilized to reduce runoff from the project into adjacent surface waters. John Brumley, Water Quality Branch, (502) 564-3410, John.Brumley@ky.gov.

No comment. Phil O'dell, Watershed Management Branch, (502) 564-3410, Phillip.O'Dell@ky.gov.

No comment. Sarah Gaddis, Compliance and Technical Assistance Branch, (502) 564-3410, Sarah.Gaddis@ky.gov.

The Division of Enforcement does not object to the project proposed by the applicant. Tim Harrod, Division of Enforcement, (502) 564-2150, Timothy.Harrod@ky.gov.

If the construction area disturbed is equal to or greater than 1 acre, the applicant will need to apply for a Kentucky Pollutant Discharge Elimination System (KPDES) storm water discharge permit.

Utility line projects that cross a stream will require a Section 404 permit from the US Army Corps of Engineers and a 401 Water Quality Certification from DOW.

The Kentucky Division of Water supports the goals of EPA's Sustainable Infrastructure Initiative. This Initiative seeks to promote sustainable practices that will help to reduce the potential gap between funding needs and spending at the local and national level. The Sustainable Infrastructure Initiative will guide our efforts in changing how Kentucky views, values, manages, and invests in its water infrastructure. This website, www.epa.gov/waterinfrastructure/, contains information that will help you ensure your facility and operations are consistent with and can benefit from the aims of the Sustainable Infrastructure Initiative.

The Heritage Council has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

The applicant must ensure compliance with the Advisory Council on Historic Preservation's Rules and Regulations for the Protection of Historic and Cultural Properties (36CRF, Part 800) pursuant to the National Historic Preservation Act of 1966, the National Environmental Policy Act of 1969, and Executive Order 11593.

Thank you for submitting your project for review. Currently, you have not provided enough information to determine this project's potential to impact sites listed or eligible for listing on the National Register of Historic Places.

Per the Section 106 regulations, it is expected that the applicant or responsible agency provide appropriate base information to our office to facilitate a review—including previously identified cultural resources that may be impacted by the proposed undertaking. You may not be aware, but effective July 8, 2013 we instituted a new Section 106 submission process to assist applicants and agencies in providing us the appropriate level of information to make our comments. Please refer to the following website

<http://www.heritage.ky.gov/siteprotect/> where you will find three separate documents to assist you in submitting additional information to our office for review. Those documents include a memo outlining the standardized Section 106 submission process, a Section 106 Cover sheet that must be included with all submissions to our office, and instructions for the proper completion of the required cover sheet and associated information. Please include the SA# when submitting additional information to the Kentucky Heritage Council.

If you have questions, please contact Yvonne Sherrick of my staff at 502.564.7005, extension 113.

The Housing, Building, Construction has made the following advisory comment pertaining to State Application Identifier Number KY201404070323
no comments



STEVEN L. BESHEAR
GOVERNOR

TOURISM, ARTS AND HERITAGE CABINET
KENTUCKY HERITAGE COUNCIL

BOB STEWART
SECRETARY

THE STATE HISTORIC PRESERVATION OFFICE
300 WASHINGTON STREET
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-7005
FAX (502) 564-5820
www.heritage.ky.gov

CRAIG A. POTTS
EXECUTIVE DIRECTOR AND
STATE HISTORIC PRESERVATION OFFICER

May 20, 2014

Judith I. Thacker
Horne Engineering, Inc.
216 South Main Street
Nicholasville, KY 40356

**RE: Proposed 750,000 Gallon Elevated Water Storage Facility, SAI # KY20140407-0323
Catnip Hill Pike, City of Nicholasville, Jessamine County, Kentucky**

Dear Ms. Thacker,

Thank you for providing additional information regarding the above referenced project. Based on the information provided, we would not expect any adverse effect from the project as described. At this time, it is our assessment that the proposed project will not require further cultural resources investigation. However, should the project design or boundaries change this office should be contacted to determine if further consultation is necessary.

Should you have any questions, feel free to contact Yvonne Sherrick of my staff at 502- 564-7005 ext 113.

Sincerely,

Craig Potts, Executive Director
Kentucky Heritage Council and
State Historic Preservation Officer

CP:41570-2

EXHIBIT 4

AUTHORIZATION FOR ELECTRONIC DEPOSIT
OF GRANTEE PAYMENT
KENTUCKY INFRASTRUCTURE AUTHORITY

WRIS #: WX21113016

Project ID#: 3N-2014

Grantee: JESSAMINE-SOUTH ELKHORN WATER DISTRICT

Address: P o B o x 731
City: Nicholasville State: Ky Zip: 40340
Telephone: 859/881-0589 Contact: Diana Clark
E-mail address: jessaminesouth@windstream.net
Federal I.D. #: [REDACTED]

Financial Institution Information:

Bank Name: United Bank
Branch: _____ Phone No: 859/885-0900
City: Nicholasville State: Ky Zip: 40356
Transit / ABA No.: [REDACTED]
Account Name: JSEWA Capital Construction
Account Number: [REDACTED]

I, the undersigned, authorize payments directly to the account indicated above and to correct any errors which may occur from the transactions. I also authorize the Financial Institution to post these transactions to that account.

Signature: Diana Clark Date: 6-27-14
Name Printed: Diana Clark Job Title: Office Manager

Please return completed form to: Kentucky Infrastructure Authority
1024 Capital Center Drive, Suite 340
Frankfort, KY 40601
phone: 502-573-0260
fax: 502-573-0157

EXHIBIT 5

Additional Covenants or Conditions (if applicable)

To be completed after Project is bid

EXHIBIT 6
CERTIFICATE OF COMPLETION
JESSAMINE-SOUTH ELKHORN WATER DISTRICT
HB235
WX21113016
PROJECT ID # 3N-2014

Pursuant to the Agreement between the Kentucky Infrastructure Authority and the JESSAMINE-SOUTH ELKHORN WATER DISTRICT (the Grantee) for the Project as described in Exhibit 1 of the Agreement, this certificate, signed by the authorized official and the Project Administrator of the Grantee confirms that the following activities are complete.

1. The Project construction has been completed and payment has been made to all vendors and/or contractors for labor, services, materials, supplies, machinery and equipment included in the above referenced Project.
2. All lands, easements, rights of ways, permits or other facilities necessary in connection with the Project have been acquired, constructed, equipped and installed and all costs and expenses incurred in connection therewith have been paid.
3. The Project is complete and is available for the provision of services which are expected to commence on or about _____.

Project Administrator: _____

Authorized Official: _____

Date: _____

Acceptance of Certificate of Completion by Kentucky Infrastructure Authority:

By: _____

Date: _____



KENTUCKY INFRASTRUCTURE AUTHORITY

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

Steven L. Beshear
Governor

John E. Covington III
Executive Director

July 15, 2014

Mr. Nick Strong, Chairman
Jessamine-South Elkhorn Water District
P.O. Box 731
Nicholasville, Kentucky 40356

RE: Jessamine-South Elkhorn Water District
WX21113016 - \$440,000 (3N-2014) HB235 Reauthorization and Reallocation
Catnip Hill Pike Elevated Storage Tank Project

Dear Mr. Strong:

Enclosed is a copy of the fully executed Grant Assistance Agreement for the above grant.

The following items remain outstanding:

- As-bid Budget
- KIA Administrative Fee

You may now request up to 50% of planning and design fees. The KIA adm fee is due upon receipt of the first request for payment. The remaining funds can be released once we have the as-bid budget. Please include back-up invoices with all requests for payment.

Please note, you will have till June 30, 2016 to complete this project. If you have any questions or need further assistance, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Debby Milton".

Debby Milton
Financial Analyst

C: Representative Robert R. Damron
Senator Tom Buford
John Horne, Horne Engineering



KENTUCKY INFRASTRUCTURE AUTHORITY

Steven L. Beshear
Governor

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

John E. Covington III
Executive Director

Jessamine-South Elkhorn Water District
John Horne
john@horneeng.com

Fee Billed Date: 07/15/2014

Payment Request

Infrastructure for Economic Development Fund Grant-Coal/Tobacco Counties

WRIS ID: WX21113016

Grant ID: 3N-2014

Catnip Hill Pike 1.0 MG Elevated Storage Tank

Administrative Fee: \$2,200.00

Due Date: Upon Submittal of First Draw Request

Make check payable to: **The Kentucky Infrastructure Authority** and mail to the attention of Fiscal Officer at 1024 Capital Center Drive Suite 340, Frankfort, KY 40601.
Please include a copy of this request to ensure proper credit.

KENTUCKY INFRASTRUCTURE AUTHORITY

2014 GENERAL ASSEMBLY
HOUSE BILL 235
(REAUTHORIZATION REALLOCATION)

GRANT ASSISTANCE AGREEMENT

WRIS NUMBER: WX21113016
PROJECT ID #: 3N-2014
GRANT AMOUNT: \$440,000
GRANTEE: JESSAMINE-SOUTH ELKHORN
WATER DISTRICT
DATE OF AGREEMENT: 7-15-14

RECEIVED
KENTUCKY INFRASTRUCTURE
AUTHORITY

2014 JUL 7 AM 9 44

This agreement will be added to and augments the existing Grant Assistance Agreement Grant ID# 229N-2008. Both will be combined and applied as one project – WX21113016 “Catnip Hill Pike 750,000 Gallon Elevated Storage Tank” (formerly 1MG Elevated Storage Tank).

GRANT ASSISTANCE AGREEMENT

This Grant Assistance Agreement ("Agreement") is made and entered into this date, 7-15, 2014, by and between the KENTUCKY INFRASTRUCTURE AUTHORITY ("Authority"), a body corporate and politic, constituting a public corporation and governmental agency and instrumentality of the Commonwealth of Kentucky, and the JESSAMINE-SOUTH ELKHORN WATER DISTRICT ("Grantee").

WITNESS

WHEREAS, the General Assembly of the Commonwealth of Kentucky, at its 1988 Regular Session, amended Chapter 224A of the Kentucky Revised Statutes (the "Act"), creating the "Kentucky Infrastructure Authority" to serve the public purposes identified in the Act; and

WHEREAS, the Authority, an agency of the Commonwealth attached to the Governor's Office, is charged pursuant to KRS 224A.300 with coordinating the implementation of infrastructure projects and to this end maintains within the Water Resource Information System, a comprehensive database of profiles of each community's water and wastewater projects; and

WHEREAS, the 2014 General Assembly included in the Commonwealth's 2014-2016 biennial Budget Reauthorization and Reallocation for the Grantee's infrastructure project, the subject of this Agreement; and

WHEREAS, the Grantee now seeks to implement the Project as identified in the 2014-2016 Budget of the Commonwealth and the Authority has determined that the Project is a Project within the meaning of the Act, and has been shown to be consistent with the Area Water Management Plan where applicable; and

WHEREAS, the Grantee and the Authority desire to enter into this Agreement which sets forth their respective duties, rights, covenants, and obligations with respect to the acquisition, construction and financing of the Project described in the Grantee's Project Profile.

NOW THEREFORE, in consideration of the mutual covenants and conditions contained herein and for the other good and valuable consideration, the receipt, mutuality and sufficiency of all of which is hereby acknowledged by the parties hereto, the Authority and the Grantee each agree as follows:

SECTION 1 – DEFINITIONS

All terms utilized herein shall have the same definitions and meaning as ascribed to them in the Act, which are hereby incorporated in this Agreement by reference, the same as if set forth hereby verbatim; provided, however, that those definitions utilized in the Act having general application are hereby modified in certain instances to apply specifically to the Grantee and its Project.

Act shall mean Chapter 224A of the Kentucky Revised Statutes, as amended.

Agreement shall mean this Agreement made and entered into by and between the Grantee and the Authority, as authorized by the Act, providing for a Grant to the governmental agency, unit of government, or private, investor-owned water system by the Authority.

Area Water Management Council shall mean the council designated as the planning body for the area, which shall prepare the Area Water Management Plan and approve all Project Profiles for water and wastewater projects.

Area Water Management Plan shall mean the plan that identifies current and future water supply, drinking water, and wastewater service needs of the area.

Authority shall mean the Kentucky Infrastructure Authority created by the Act as amended, a body corporate and politic, constituting a public corporation and a governmental agency and instrumentality of the Commonwealth of Kentucky, or such other designation as may be effected by future amendments to the Act.

Engineer(s) shall mean the professional engineer or firm of professional engineers properly procured by the Grantee in connection with the Project identified in the Project Profile Database.

Grantee shall mean the JESSAMINE-SOUTH ELKHORN WATER DISTRICT or the designee that is a governmental agency or unit of government or any private, investor owned utility within the Commonwealth eligible for funding under the Program in accordance with the Act, now having been or hereafter being granted the authority and power to finance, acquire, construct, or operate a Project, and for the purposes of this Agreement shall mean that the JESSAMINE-SOUTH ELKHORN WATER DISTRICT identified in the Project Profile or the 2012-2014 biennial Budget of the Commonwealth.

Grant shall mean the funds effected under this Agreement from the Authority to the Grantee in the principal amount set forth in the 2014-2016 Budget of the Commonwealth, for the purpose of defraying the costs incidental to the Project.

Kentucky Water Management Plan shall mean the guide and strategy that incorporates and analyzes each Area Water Management Plan and provides an assessment of future needs and allocation of funding for water and wastewater services throughout the Commonwealth.

Program shall mean the program authorized by KRS 224A.035 for the Authority to engage in a program of assistance to designated entities with respect to the construction and acquisition of water and wastewater infrastructure projects.

Project shall mean, when used generally, water, wastewater or other infrastructure project authorized pursuant to the Act, and when used in specific reference to the Grantee, the Project described in the Project Profile.

Project Administrator shall mean that individual designated in writing to the Authority by the Grantee, who has the responsibility of supervising the Project and coordinating the preparation of all documentation with respect to the Project.

Project Budget shall mean a list of Project expenses and funding sources, in the form set forth in **Exhibit 1**.

Project Profile shall mean those specific details of the Project, approved by the Area Water Management Council as being consistent with the Area Water Management Plan, as applicable.

Rates and Charges shall mean an approved schedule of charges, based on actual cost of service, to adequately provide for retirement of any related debt obligation and to provide for proper operation of the Project.

System shall mean the utility system owned and operated by the Grantee of which the Project shall become a part and from the earnings of which System shall be operated, maintained and insured.

SECTION 2 - OBLIGATIONS OF THE AUTHORITY

The Authority covenants and agrees, conditioned upon the timely performance by the other party of its respective obligations, to undertake the following obligations:

- A. The Authority shall pay to the Grantee the grant sum in an amount not to exceed \$440,000.
- B. The Authority may make periodic reviews of the Project progress and may make inspections of the Project and send inspection reports to the Grantee. Deficiencies identified in the inspection report shall be corrected by the Grantee and the correction reported in writing to the Authority within two weeks of receipt of the Authority's inspection report.
- C. The Authority shall cooperate with the Grantee in order to facilitate the obligations set out in this Agreement.

SECTION 3 - OBLIGATIONS OF THE GRANTEE

The Grantee covenants and agrees to undertake the following obligations:

- A. The Grantee shall, before any funds are released, sign and submit the Agreement, and complete and include the following Exhibits which are incorporated herein and made a part hereof:
 1. **Before the Project is bid**, the Grantee shall complete and submit to the Authority the following:
 - a) A Project description in the form of a Project Profile together with the estimated Project Budget, as **Exhibit 1**.
 - b) A copy of the Grantee's Resolution, as **Exhibit 2**, accepting the grant award, amending its budget to allow for receipt and expenditures of these funds, and authorizing a designated individual to execute the Agreement and all other documentation related to the Project.
 - c) A Statement of Agreement to adopt and use the Kentucky Uniform System of Accounting (KUSoA) and assure that rates and charges for water service are based upon the cost or providing such service as **Exhibit 3**, if applicable.
 - d) A schedule of current rates and charges. If there will be a change in the current rate structure as a result of this project, provide the proposed schedule of rates and charges.
 - e) Documentation of **Clearinghouse Endorsement** and Clearinghouse Comments.
 - f) An Application for Electronic Transfer of Funds, as **Exhibit 4**.
 - g) Any additional covenants or agreements that may be required included in **Exhibit 5**.
 2. **After Project is bid**, the Grantee shall complete and submit to the Authority the following:
 - a) A revised Project Budget based on Project bids, as **Exhibit 1**.

The Grantee may request receipt of Grant funds after completion of items in Sections 3. A. 1. and 2. above and full execution of the Agreement. The Authority, upon receipt of Request for Payment and Project Status Report, will release funds. The Request for Payment and Project Status Report must include copies of invoices for costs incurred. The Authority may withhold release of funds until receipt of Administrative Fee pursuant to Section 7.

- B. The Grantee shall perform and/or cause to be performed all necessary acts (consistent with KRS 45A and in accordance with applicable laws) to plan, design and construct the Project including: the procurement of land, easements and rights of way; professional services including engineering fees, including but not limited to architectural and engineering services; construction contractor(s); and equipment and/or materials.
- C. Documentation of **Clearinghouse Endorsement and Clearinghouse Comments**.
- D. The Grantee shall obtain all necessary permits, licenses and approvals from the appropriate federal, state, and/or local governmental entities prior to construction of the Project. Further, the Grantee shall require all construction contractors to pay wages pursuant to applicable prevailing wage rates (federal or state) for all work relating to the subject Project.
- E. The Grantee shall comply with all applicable federal and state statutes, executive orders, regulatory requirements, and policies relating to the planning and construction of the Project.
- F. The Grantee shall provide to the Authority access to all records related to the Project for review in determining compliance with the Grant Agreement and all applicable laws and regulations. The Grantee shall retain all records, including all invoices, relating to the Project for three years after full execution of **Exhibit 6** - Certificate of Completion.
- G. The Grantee shall cooperate fully with the Authority and provide any documentation requested by the Authority in order to facilitate the obligations set out in this Agreement.
- H. Any unauthorized or improper expenditure of funds, or expenditure of funds other than in accordance with the terms of this Agreement, shall be deemed a default of this Agreement by the Grantee.
- I. The Grantee will proceed expeditiously with and complete the Project in accordance with the approved final design, plans and specifications or amendments thereto, prepared by the Project Engineer for the Grantee and as approved by the appropriate state and federal agencies.
- J. The Grantee agrees that throughout the reasonable life of the infrastructure facilities developed under this Project it will retain ownership of, operate, and

maintain these facilities, and all appurtenances thereto, keeping them in good and sound repair and good operating condition at its own expense so that the completed Project will continue to provide the services for which it was designed. Change of ownership or disposal of the Project facilities may occur only with written approval of the Authority.

- K. The Grantee agrees that it will at all times impose, charge and collect sufficient customer Rates and Charges.
- M. The Grantee shall submit the fully executed Certificate of Completion once all Project construction related activities are complete.
- N. The Grantee shall submit a digital copy (pdf) of the record drawings directly to KIA within three months of construction completion.
- O. Upon completion of project, the Area Development District will conduct an Onsite Inspection/Certification of the project.

SECTION 4 - MUTUALITY OF OBLIGATIONS

- A. The parties agree that the funds granted by the Commonwealth to the Grantee are to be used solely for the purposes of implementing the Project. Further the parties agree that the obligations imposed upon them are for their respective benefit and the timely fulfillment of each and every obligation in accordance with this Agreement is necessary. The failure of either party to fulfill its obligations under this Agreement shall constitute a breach of same.
- B. In the event of default by the Grantee, including the failure to take actions directed herein and/or to comply with time deadlines set out in this Agreement, the Authority may declare this Agreement void from the beginning without further obligation to the Grantee and may commence appropriate legal action to enforce its rights under this Agreement including action for recovery of funds expended hereunder.
- C. Except as may otherwise be provided herein, the parties to this Agreement shall be solely responsible for any costs incurred in fulfilling their respective obligations under this Agreement and neither party shall have any claim against the other party for reimbursement of costs whether or not a party is in default.

SECTION 5 - TERMS OF AGREEMENT

- A. All funds made available under this Agreement are subject to reauthorization by subsequent General Assemblies of the Commonwealth of Kentucky. Should funding for the Project not be reauthorized this agreement shall terminate.
- B. This Agreement shall be valid only after all signatories have signed.

- C. This Agreement may be terminated by either party at any time for cause and may be terminated by either party without cause upon 30 days written notice to the other party. Termination of this Agreement shall not diminish or in any other manner affect any other remedy that may be available to the parties for any breach of the Agreement that occurs prior to the termination.
- D. If additional financial assistance for this project becomes available to the Grantee after execution of this agreement, the amount of the assistance from the Authority shall be recalculated with the inclusion of the additional assistance, and the Grantee shall pay to the Authority the amount, if any, by which the grant actually made, exceeds the grant as determined by the recalculation.

SECTION 6 - ADVANCE FUNDING FOR PROJECT PLANNING AND DESIGN

- A. The Grantee may request, in writing, that a portion of the grant funds be disbursed prior to Project bidding to pay a portion of the cost of Project planning and design directly related to submission of the Project plans and specifications for review by the Division of Water and the Public Service Commission, as may be required.
- B. Funds disbursed under this Section of the Agreement shall not exceed 50% of the Project planning and design amount as established in the guidelines as set forth in the Engineering Contract between the Grantee and the Engineering Firm.
- C. Funds received under provisions of this Section shall be used solely for planning and design costs of the Project.
- D. No funds shall be released under this Section until the requirements of Section 3. A. 1. of this Agreement have been met.

SECTION 7 - ADMINISTRATIVE FEE

The Grantee agrees to pay to the Authority an administrative fee (the "Administrative Fee") equal to ½ of 1% of the principal amount of the Grant. The Administrative Fee shall be due and payable on the date the Grantee's initial Request for Payment and Project Status Report is submitted to the Authority. Administrative fees are applicable for Grantees identified under the Sections of the 2014-2016 Budget of the Commonwealth as Coal Producing Counties and Non-Coal Producing Counties only.

SECTION 8 - MISCELLANEOUS PROVISIONS

- A. This Agreement may be signed by each party on a separate copy, and in such case one counterpart of this Agreement shall consist of a sufficient number of

such copies to reflect the signature of each party hereto. This Agreement may be executed in two or more counterparts each of that shall be deemed an original, and it shall not be necessary in making proof of this Agreement or the terms and conditions hereof to produce or account for more than one of such counterparts.

- B. The headings set forth in this Agreement are only for convenience or reference and the words contained therein shall in no way be held to explain, modify, amplify or aid in the interpretation, construction or meaning of the provisions of this Agreement.
- C. The terms and conditions of this Agreement shall be binding upon and shall inure to the benefit of the successor and assigns, respectively, of the parties. This provision shall not be construed to permit an assignment by any party of any of its rights and duties under this Agreement which assignment shall be prohibited except with the prior written consent of the parties hereto.
- D. This Agreement sets forth the entire understanding of the parties with respect to the subject matter hereof, and may be modified only by a written instrument duly executed by each of the parties hereto.
- E. Timely and accurate performance of all actions by the respective parties are mutually recognized by the parties hereto to be of great importance to the citizens of the Commonwealth generally, and particularly to those citizens directly affected by the Project subject of this Agreement.
- F. The parties agree that any suit, action or proceeding with respect to this Agreement may only be brought into or entered by, as the case may be, the courts of the Commonwealth of Kentucky situated in Frankfort, Franklin County, Kentucky or the United States District Court for the Eastern District of Kentucky, Frankfort Division.
- G. The Authority may audit or review all documentation and records of the Grantee relating to this Project pursuant to the provisions of KRS 45A.150.
- H. The Grantee agrees that the Authority, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Furthermore, any books, documents, papers records, or other evidence provided to the Commonwealth, the Finance and Administration Cabinet, the Auditor of Public Accounts, or the Legislative Research Commission which are directly pertinent to the contract shall be subject to public disclosure regardless of the proprietary nature of the information, unless specific information is identified and exempted and agreed to by the Secretary of the Finance and Administration Cabinet as meeting the provisions of KRS 61.878(1)(c) prior to the execution of the contract. The Secretary of the Finance and Administration Cabinet shall not restrict the

public release of any information which would otherwise be subject to public release if a state government agency was providing the services.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective duly authorized officers as of the day and year above written.

DATE: 7-15-14

EXAMINED:

KENTUCKY INFRASTRUCTURE AUTHORITY



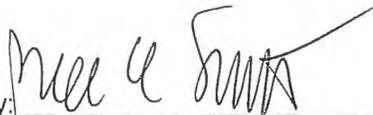
LEGAL COUNSEL TO THE
KENTUCKY INFRASTRUCTURE AUTHORITY

By: 

EXECUTIVE DIRECTOR

GRANTEE: JESSAMINE-SOUTH ELKHORN WATER DISTRICT

ATTEST

By: 

LEGAL COUNSEL TO THE GRANTEE

By: 

AUTHORIZED OFFICIAL

REQUIRED EXHIBITS - CHECKLIST

STEP 1, Before Project is Bid:

- | | |
|---|-----|
| 1. Executed Grant Assistance Agreement | Yes |
| 2. Assignment & Assumption Agreement or Interlocal Agreement (if applicable) | N/A |
| 3. Exhibit 1 - Project Profile and Estimated Project Budget | Yes |
| 4. Exhibit 2 – Resolution | Yes |
| 5. Exhibit 3 - Statement of Agreement re KUSOA & Cost-based Rates | Yes |
| 6. Schedule of Current (and proposed if applicable) Rates and Charges | Yes |
| 7. State Applicator Identifier # (SAI) assigned to project prior to Clearinghouse Endorsement | Yes |
| 8. Exhibit 4 - Application for Electronic Transfer of Funds | Yes |

STEP 2, After Project is Bid:

- | | |
|--|-----|
| 1. Exhibit 1 - Revised Project Budget based on Project Bids | |
| 3. Exhibit 5 – Additional Covenants and Agreements (if applicable) | |
| 4. Other Funding Commitment (if applicable) | |
| 6. Documentation of Clearinghouse Endorsement and Comments | Yes |

STEP 3, Project Closeout:

- | | |
|--|--|
| 1. Final Design (within three months of construction completion, please provide directly to KIA a digital copy (pdf) of the record drawings from of the project. | |
| 3. Fully executed Certificate of Completion | |
| 4. Fully executed Onsite Inspection/Certification (to be conducted by the ADD along with project administrator) | |

EXHIBIT 1

PROJECT PROFILE & PROJECT BUDGET

Please attach the WX21113016 Project Profile and Project Budget

PROJECT ID # 3N-2014
and
PROJECT ID# 229N-2008

The Project Profile and Project Budget apply to both Grant Assistance Agreements. The project profile was updated March 21, 2014 and the GIS was updated March 24, 2014 to reflect the decrease in the tank size and the commitment of the \$440,000.00 to the project.



Drinking Water Project Profile

Legal Applicant: **Jessamine-South Elkhorn Water District**

Project Title: **Catnip Hill Pike 750,000 Gallon Elevated Storage Tank**

Project Number: **WX21113016** [View Map](#)

Submitted By: **BGADD**

Funding Status: **Partially Funded**

Primary County: **Jessamine**

Project Status: **Approved**

Planning Unit: **Unit 6**

Project Schedule: **0-2 Years**

Multi-County: **No**

E-Clearinghouse SAI: **KY201404070323**

ECH Status: **Endorse With Condition**

Applicant Entity Type: **Water District (KRS 74)**

ADD WMC Contact: **Karyn Leverenz**

Date Approved (AWMPC): **10-21-2005**

Project Description:

Jessamine South Elkhorn Water District proposes to construct a 750,000 gallon elevated storage tank on property which they own on Catnip hill pike. The proposed site is in close proximity to the district's existing elevated storage for the northwest service area and adjacent to an existing 12" main. Therefore, no line extensions or pumpstations will be required.

Need for Project:

Briefly describe how this project promotes public health or achieves and/or maintains compliance with the Clean Water Act or Safe Drinking Water Act:

The proposed 750,000 gallon tank will provide additional storage capacity to allow the District to meet PSC regulations and also provide fire and emergency storage.

Project Alternatives:

Alternate A:

Construct a smaller tank at lesser cost.

Alternate B:

Purchase storage volume from supplier (Kentucky American Water Company).

Alternate C:

Initiate water purchase contract with dedicated storage from the City of Wilmore.

Legal Applicant:

Entity Type: **Water District (KRS 74)**

PSC Group ID: **24300**

Entity Name: **Jessamine-South Elkhorn Water District**

Web URL:

Office EMail: **jessaminesouth@windstream.net**

Office Phone: **859-881-5080**

Toll Free:

Fax:

Mail Address Line 1: **PO Box 731**

Phys Address Line 1:

Mail Address Line 2:

Phys Address Line 2:

Mail City, State Zip: **Nicholasville, KY 40356**

Phys City, State Zip:

Contact: **Diana Clark**

Auth Official: **Nick Strong**

Contact Title: **Office Manager**

Auth Official Title: **Chairman**

Contact EMail: **jessaminesouth@windstream.net**

Auth Official EMail: **nickocis@aol.com**

Contact Phone: **859-881-0589**

Auth Official Phone: **859-621-6200**

Contact Cell:

Auth Official Cell:

Data Source: **Kentucky Infrastructure Authority**

Date Last Modified: 10.03.2012



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Project Administrator (PA) Information

Name: **John G Horne**

Title: **Consulting Engineer**

Organization: **Horne Engineering**

Address Line 1: **216 South Main Street**

Address Line 2:

City: **Nicholasville** State: **KY** Zip: **40356**

Phone: **859-885-9441** Fax: **859-885-5160**

Applicant Contact (AC) Information

Name: **Richard Decker**

Title: **Assistant District Manager**

Organization: **Jessamine-South Elkhorn Water District**

Address Line 1: **802 S Main St**

Address Line 2:

City: **Nicholasville** State: **KY** Zip: **40340**

Phone: **859-881-0589** Fax: **859-881-5080**

Project Engineer (PE) Information:

This project requires a licensed Professional Engineer.

License No: **PE 6510**

PE Name: **John G. Horne**

Phone: **859-885-9441** Fax:

E-Mail: **john@horneeng.com**

Firm Name: **Horne Engineering, Inc.**

Addr Line 1: **Horne Engineering, Inc.**

Addr Line 2: **216 South Main St.**

Addr Line 3:

City: **Nicholasville** State: **KY** Zip: **40356**

Status: **Current** Disciplinary Actions: **NO**

Issued: **04-10-1967** Expires: **06-30-2015**

Engineering Firm Information:

Permit No: **677**

Firm Name: **Horne Engineering, Inc.**

Phone: **859-885-9441** Fax: **859-885-5160**

Web URL:

E-Mail: **john@horneeng.com**

Addr Line 1: **216 South Main Street**

Addr Line 2:

City: **Nicholasville** State: **KY** Zip: **40356**

Status: **Current** Disciplinary Actions: **NO**

Issued: **11-09-1993** Expires: **12-31-2014**



Drinking Water Project Profile
 WX21113016 - Jessamine-South Elkhorn Water District
 Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Estimated Budget

Project Cost Classification:

Administrative Exp.:	\$ 35,000
Legal Exp.:	\$ 25,000
Land, Appraisals, Easements:	
Relocation Exp. & Payments:	
Planning:	
Engineering Fees - Design:	\$ 125,000
Engineering Fees - Construction:	\$ 45,000
Engineering Fees - Inspection:	\$ 85,000
Engineering Fees - Other:	
Construction:	\$ 1,510,000
Equipment:	
Miscellaneous:	
Contingencies:	\$ 175,000
Total Project Cost:	\$ 2,000,000

Construction Cost Categories:

Treatment:	
Transmission & Distribution:	
Source:	
Storage:	\$ 1,510,000
Purchase of Systems:	
Restructuring:	
Land Acquisition:	
Non-Catagorized:	
Total Construction:	\$ 1,510,000

Total Sustainable Infrastructure Costs:

Note: Total Sustainability Infrastructure Costs are included within construction and other costs reported in this section. This breakout is provided for SRF review purposes.

Project Funding Sources:

Total Project Cost: **\$2,000,000**
 Total Committed Funding: **\$1,440,000**
 Funding Gap: **\$560,000 (Partially Funded)**

This project will be requesting SRF funding for Federal FY 2015.

Detailed Project Schedule:

Environmental Review Status:
 RD Approval Date:
 CDBG Approval Date:
 No approval, but Cross-Cutter Scoping Completed: **06-01-2014**
 Construction Permit Application Date: **06-15-2014**
 Construction Permit Application Status: **Submitted**
 Estimated Bid Date: **09-01-2014**
 Estimated Construction Start Date: **11-15-2014**

Funding Source	Amount	Funding Status	Applicable Date
HB 608 Non-Coal Grant	\$1,000,000	Committed	4/28/2008
HB 380 Non-Coal Grant	\$110,000	Committed	4/24/2006
HB 380 Community Development Grant	\$180,000	Committed	4/24/2006
HB 380 Non-Coal Grant	\$150,000	Committed	4/24/2006
KRWA Loan	\$560,000	Applied For	8/1/2012
Total:	\$2,000,000		



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

The following systems are beneficiaries of this project:

KY0570249 Jessamine- South Elkhorn Water District

Note: Check mark indicates primary system for this project.

Project Ranking by AWMPC:

Regional Ranking(s):
Planning Unit Ranking:
Total Points:

- Plans and specs have been sent to DOW.
- Plans and specs have been reviewed by DOW.
- Plans and specs have been sent to PSC.
- Plans and specs have been reviewed by PSC.

Economic, Demographic and Geographic Impacts

Economic Impacts	
Jobs Created:	
Jobs Retained:	

*Demographic Impacts (GIS Census Overlay)			
Serviceable Demographic	Project Area	Included Systems	Included Utilities
Population:		7,690	7,690
Households:		2,977	2,977
MHI:		\$90,427	*\$90,427

Population and household counts are based on 2010 census block values from the SF1 (100%) dataset. MHI Source is from the American Community Survey 2008-2012 5Yr Estimates (Table B19013) *(for the primary system operated by the above listed beneficiary utilities).

Geographic Impacts For Project Area	
Counties	
Jessamine	
Legislative Districts	
District Name	Legislator
House 039	Robert R. Damron
Senate 22	Tom Buford
Congressional 6	Andy Barr
HUC 11 Watersheds	
HUC Code	Watershed Name
05100205220	Clear Creek

Geographic Impacts For Included System(s)	
Counties	
Fayette	
Jessamine	
Woodford	
Legislative Districts	
District Name	Legislator
House 039	Robert R. Damron
House 045	Stan Lee
House 056	James Kay
Senate 07	Julian M. Carroll
Senate 12	Alice Forgy Kerr
Senate 22	Tom Buford
Congressional 2	Brett Guthrie
Congressional 6	Andy Barr

New or Improved Service		
Service Demographic	Survey Based	Census Overlay*
To Unserved Households:		
To Underserved Households:	2,400	
To Total Households:	2,400	
** Cost Per Household:		\$833

* GIS Census block overlay figures are estimates of population and households potentially served by systems and projects based on a proximity analysis of relevant service lines to census block boundaries.

** Cost per household is based on surveyed household counts, not GIS overlay values.

DW Specific Impacts:

- This project relates to a public health emergency.
- This project will assist a non-compliant system to achieve compliance.
- This project will assist a compliant system to meet future requirements
- This project will provide assistance not compliance related.
- This project will address the terms of the Court Order and/or Agreed Order.
- The system(s) involved with this project have achieved voluntary compliance with violations before being referred for an enforcement case.



Drinking Water Project Profile
 WX21113016 - Jessamine-South Elkhorn Water District
 Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Project Inventory (Mapped Features):

Point Features:

DOW Permit ID	Count	FeatureType	Purpose	Status	Existing Capacity	Proposed Capacity	Units
KY0570249	1	WATER TANK	TANK - INCREASE STORAGE	NEW		750,000.00	GALLONS

Administrative Components:

- Planning
 Design
 Construction
 Management

Regionalization Components:

Public Water Systems Eliminated:

- This project includes the elimination of public water system(s) through merger or acquisition.

Water Treatment Plants Eliminated:

- This project includes the elimination of water treatment plant(s) through interconnect(s).

Supplementation of Raw Water Supply:

- This project includes supplementing the existing raw water supply.

Supplementation of Potable Water Supply:

- This project includes supplementing the existing potable water supply.

Emergency Only Water Supply:

- This project provides emergency only water supply.

Water Source Protection:

- This project includes land acquisition for water source protection.

Water Treatment Components:

- This project includes water treatment components

Treatment Activities:

- This project includes a new water treatment plant.
- This project includes an expansion of an existing water treatment plant.
- This project includes rehabilitation of an existing water treatment plant.
- This project includes upgrades to an existing water treatment plant.
- This project includes emergency power generators for treatment activities.
- This project includes redundant treatment processes.



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Acute Public Health Risk:

- This project includes infrastructure options to meet Cryptosporidium removal/inactivation requirements.
- This project includes infrastructure options to meet CT inactivation requirements.

Chronic Public Health Risk:

- This project includes treatment modifications to meet the Disinfectants/Disinfection Byproducts Rule at the water treatment plant.
- This project will provide treatment modifications for VOCs, IOCs, SOC, or Radionuclides.

Secondary Contaminants:

- This project includes treatment modifications to address Secondary Contaminants.

Security:

- This project includes security components for water treatment facilities.

Water Distribution and Storage:

- This project includes water distribution and/or storage components.

Water Line Extensions:

- This project includes water line extension(s).

Redundancy Components:

- This project includes emergency power generators for distribution and/or storage activities.

Number of units provided: 0

- This project includes redundant distribution and/or storage processes.

Finished Water Quality:

- This project includes infrastructure to address inadequate water turnover and disinfection byproducts (DBPs).

Number of loops created:

- This project includes a tank mixing system.

Proper line sizing, flushing hydrants

- This project includes infrastructure to address inability to maintain disinfection residual.

Proper line sizing, proper tank size.

Water Line Replacement:

- This project replaces problem water lines (breaks, leaks, or restrictive flows due to age), water lines consisting of lead and/or asbestos-cement (AC), and/or inadequately sized water lines.



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Sustainable Infrastructure - Water Efficiency:

The use of improved technologies and practices to deliver equal or better services with less water. Water efficiency encompasses conservation and reuse efforts, as well as water loss reduction and prevention, to protect water resources for the future. Examples include:

Component	Cost
<input type="checkbox"/> Installing or retrofitting water efficient devices such as plumbing fixtures and appliances (toilets, showerheads, urinals).	
<input type="checkbox"/> Installing any type of water meter in previously unmetered areas (can include backflow prevention if in conjunction with meter replacement).	
<input type="checkbox"/> Replacing existing broken/malfunctioning water meters with AMR or smart meters, meters with leak detection, backflow prevention.	
<input type="checkbox"/> Retrofitting/adding AMR capabilities or leak equipment to existing meters.	
<input type="checkbox"/> Conducting water utility audits, leak detection studies, and water use efficiency baseline studies, which are reasonably expected to result in a capital project or in a reduction in demand to alleviate the need for additional capital investment.	
<input type="checkbox"/> Developing conservation plans/programs reasonable expected to result in a water conserving capital project or in a reduction in demand to alleviate the need for capital investment.	
<input type="checkbox"/> Recycling and water reuse projects that replace potable sources with non-potable sources (Gray water, condensate, and wastewater effluent reuse systems, extra treatment or distribution costs associated with water reuse).	
<input type="checkbox"/> Retrofit or replacement of existing landscape irrigation systems to more efficient landscape irrigation systems.	
<input type="checkbox"/> Water meter replacement with traditional water meters.*	
<input type="checkbox"/> Distribution pipe replacement or rehabilitation to reduce water loss and prevent water main breaks.*	
<input type="checkbox"/> Storage tank replacement/rehabilitation to reduce water loss.*	
<input type="checkbox"/> New water efficient landscape irrigation system, where there currently is not one.*	
Total Water Efficiency Cost:	\$0

* Indicates a business case may be required for this item.

There are no Water Efficiency components specified for this project.

Sustainable Infrastructure - Energy Efficiency:

Energy efficiency is the use of improved technologies and practices to reduce the energy consumption of water projects, use energy in a more efficient way, and/or produce/utilize renewable energy. Examples include:

Component	Cost
<input type="checkbox"/> Renewable energy projects, which are part of a public health project, such as wind, solar, geothermal, and micro-hydroelectric that provides power to a utility.	
<input type="checkbox"/> Utility-owned or publicly-owned renewable energy projects.	
<input type="checkbox"/> Utility energy management planning, including energy assessments, energy audits, optimization studies, and sub-metering of individual processes to determine high energy use areas.	
<input type="checkbox"/> Energy efficient retrofits, upgrades, or new pumping systems and treatment processes (including variable frequency drives (VFDs)).*	
<input type="checkbox"/> Pump refurbishment to optimize pump efficiency.*	
<input type="checkbox"/> Projects that result from an energy efficient related assessment.*	
<input type="checkbox"/> Projects that cost effectively eliminate pumps or pumping stations.*	
<input type="checkbox"/> Projects that achieve the remaining increments of energy efficiency in a system that is already very efficient.*	
<input type="checkbox"/> Upgrade of lighting to energy efficient sources.*	
<input type="checkbox"/> Automated and remote control systems (SCADA) that achieve substantial energy savings.*	
Total Energy Efficiency Cost:	\$0

* Indicates a business case may be required for this item.

There are no Energy Efficiency components specified for this project.



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

Sustainable Infrastructure - Environmentally Innovative:

Environmentally innovative projects include those that demonstrate new and/or innovative approaches to delivering services or managing water resources in a more sustainable way. Examples include:

Component	Cost
<input type="checkbox"/> Total integrated water resources management planning, or other planning framework where project life cycle costs are minimized, which enables communities to adopt more efficient and cost-effective infrastructure solutions.	
<input type="checkbox"/> Plans to improve water quantity and quality associated with water system technical, financial, and managerial capacity.	
<input type="checkbox"/> Source water protection planning (delineation, monitoring, modeling).	
<input type="checkbox"/> Planning activities to prepare for adaptation to the long-term effects of climate change and/or extreme weather.	
<input type="checkbox"/> Utility sustainability plan consistent with EPA's sustainability policy.	
<input type="checkbox"/> Greenhouse gas inventory or mitigation plan and submission of a GHG inventory to a registry as long as it is being done for an SRF eligible facility.	
<input type="checkbox"/> Construction of US Building Council LEED certified buildings, or renovation of an existing building.	
<input type="checkbox"/> Projects that significantly reduce or eliminate the use of chemicals in water treatment.*	
<input type="checkbox"/> Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals.*	
<input type="checkbox"/> Trenchless or low impact construction technology.*	
<input type="checkbox"/> Using recycled materials or re-using materials on-site.*	
<input type="checkbox"/> Educational activities and demonstration projects for water or energy efficiency (such as rain gardens).*	
<input type="checkbox"/> Projects that achieve the goals/objectives of utility asset management plans.*	

Total Environmentally Innovative Cost: \$0

** Indicates a business case may be required for this item.*

There are no Environmentally Innovative components specified for this project.

Sustainable Infrastructure - Asset Management:

If a category is selected, the applicant must provide proof to substantiate claims. The documents must be submitted to Amanda Yeary (Amanda.Yeary@ky.gov) for DW projects.

Component

<input type="checkbox"/> The system(s) has a Capital Improvement Plan or similar planning document.
<input type="checkbox"/> The system(s) involved in this project have developed appropriate rate structures to build, operate, and maintain.
<input type="checkbox"/> The system(s) involved in this project have specifically allocated funds for the rehabilitation and replacement of aging and deteriorating infrastructure.

There are no Asset Management components specified for this project.

Project Status: Approved

Date Approved: 10-21-2005

Date Revised:



Drinking Water Project Profile

WX21113016 - Jessamine-South Elkhorn Water District
Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

KENTUCKY INFRASTRUCTURE AUTHORITY

JESSAMINE-SOUTH ELKHORN WATER DISTRICT

WX21113016

Project ID# 3N-2014

Estimated

As Bid

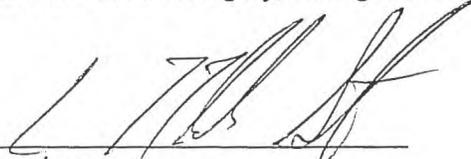
Revised

Cost Classification		Amount
1	Administrative Expenses (1)	\$35,000
2	Legal Expenses	\$25,000
3	Land, Appraisals, Easements	-0-
4	Relocation Expense & Payments	-0-
5	Planning (2)	-0-
6	Engineering Fees - Design	\$125,000
7	Engineering Fees - Construction	\$45,000
8	Engineering Fees - Inspection	\$85,000
9	Construction	\$1,510,000
10	Equipment	-0-
11	Contingency	\$175,000
12	Other	-0-
Total		\$2,000,000

Funding Sources		Amount	Date Committed
1	HB 608 Non-Coal Grant (229N-2008)	\$1,000,000	04/28/2008
2	HB 235 Reauthorization/Reallocation (3N-2014)	\$440,000	April 2014
3	KRWA Loan	\$560,000	Applied For
4			
5			
6			
Total		\$2,000,000	

(1) Include Interim Financing

(2) Include in this category, all negotiated fees not included in the RD fee scale calculation



 Signature

Chairman

 Title

7-2-14

 Date

EXHIBIT 2

PROJECT ID # *3N-2014*

RESOLUTION OF THE JESSAMINE-SOUTH ELKHORN WATER DISTRICT (GRANTEE) ACCEPTING THE GRANT, APPROVING THE GRANT AGREEMENT, AUTHORIZING THE AMENDMENT OF LOCAL BUDGET, AND AUTHORIZING A REPRESENTATIVE TO SIGN ALL RELATED DOCUMENTS

WHEREAS, the General Assembly has appropriated funds for infrastructure projects in the 2014-2016 Budget of the Commonwealth; and

WHEREAS, the Grantee has previously determined that it is in the public interest to acquire and construct certain facilities and improvements to the Grantee's utility system (the "Project"); and

WHEREAS, the Grantee desires funding from the Kentucky Infrastructure Authority (the "Authority") for the purpose of acquisition and construction of the Project.

NOW, THEREFORE, BE IT RESOLVED by the Commissioners of the Jessamine-South Elkhorn Water District as follows:

SECTION 1. That the Grantee hereby accepts the grant award and approves the Agreement between the Grantee and the Authority substantially in the form on file with the Grantee for the purpose of providing a portion of the necessary financing to the Grantee for the acquisition and construction of the Project.

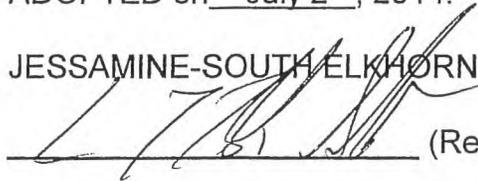
SECTION 2. That L. Nicholas Strong, Chairman is hereby authorized, directed and empowered by the Grantee to execute the Agreement and all other necessary documents or agreements, and to otherwise act on behalf of the Grantee to implement the Project.

SECTION 3. That the Grantee hereby includes in its annual budget the receipt and expenditures of funds subject to the Agreement with the Authority.

SECTION 4. This Agreement shall take effect immediately upon passage.

ADOPTED on July 2, 2014.

JESSAMINE-SOUTH ELKHORN WATER DISTRICT (Grantee)



(Representative)

Title Chairman

CERTIFICATE

I, the undersigned, hereby certify that I am the duly qualified and acting Secretary of the Jessamine-South Elkhorn Water District; that the foregoing is a full, true and correct copy of a Resolution adopted by the governing authority of said Grantee at a meeting duly held on July 2, 2014; that said official action appears as a matter of public record in the official records or journal of the governing authority; that said meeting was held in accordance with all applicable requirements of Kentucky law, including KRS 61.810, 61.815, 61.820 and 61.825; that a quorum was present at said meeting; that said official action has not been modified, amended, revoked or repealed and is now in full force and effect.

IN TESTIMONY WHEREOF, witness by me this 2nd day of July, 2014.


Secretary

EXHIBIT 3

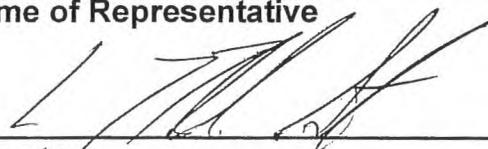
**STATEMENT OF AGREEMENT
TO UTILIZE
KENTUCKY UNIFORM SYSTEM OF ACCOUNTING AND COST-BASED RATES**

I hereby certify that the Grantee cited below agrees, as a condition of fund award, to adopt and use, within 12 months of the end of the Grantee's current fiscal year, the Kentucky Uniform System of Accounting or an alternative process (to be approved by the Kentucky Infrastructure Authority) unless grantee has previously certified adoption by an earlier date, if that being the case I certify that grantee is in compliance with the previously executed agreement. I also certify that rates and charges for water service will be based upon the cost of providing such service. The Kentucky Uniform System of Accounting may be viewed at: <http://wris.state.ky.us/kia/KUSoA.htm>.

Signed:

Jessamine-South Elkhorn Water District
Name of Grantee

Nick Strong, Chairman
Name of Representative


Signature

July 2, 2014
Date

**SCHEDULE OF CURRENT (AND PROPOSED IF APPLICABLE)
RATES AND CHARGES**

WX21113016

**3N-2013
\$440,000**

**229N-2008
\$1,000,000**

Rates Attached

FOR Northwest & Southeast Jessamine County
Community, Town or City

P.S.C. KY. NO. 2

20th Revised SHEET NO. 2

Jessamine-South Elkhorn Water District
(Name of Utility)

CANCELLING P.S.C. KY. NO. 2

19th Revised SHEET NO. 2

RATES & CHARGES

A. Monthly Rates:

5/8" x 3/4" Meter:

First 2,000 gallons	\$26.28	Minimum Bill
Next 2,000 gallons	7.49	per 1,000 gallons
Next 2,000 gallons	7.39	per 1,000 gallons
Next 10,000 gallons	7.29	per 1,000 gallons
Next 8,000 gallons	7.19	per 1,000 gallons
Over 24,000 gallons	7.09	per 1,000 gallons

1" Meter:

First 10,000 gallons	\$85.20	Minimum Bill
Next 6,000 gallons	7.29	per 1,000 gallons
Next 8,000 gallons	7.19	per 1,000 gallons
Over 24,000 gallons	7.09	per 1,000 gallons

2" Meter:

First 24,000 gallons	\$186.46	Minimum Bill
Over 24,000 gallons	7.09	per 1,000 gallons

A \$6.50 per month surcharge will be assessed to all Southeast users served by the water expansion project.

All meters shall be read to the nearest ten gallons each month.

DATE OF ISSUE April 16, 2014
Month / Date / Year

DATE EFFECTIVE November 5, 2013
Month / Date / Year

ISSUED BY X [Signature]
(Signature of Officer)

TITLE Chairman

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION
IN CASE NO. 2013-00401 DATED December 3, 2013

KENTUCKY PUBLIC SERVICE COMMISSION
JEFF R. DEROUEN EXECUTIVE DIRECTOR
TARIFF BRANCH <u>[Signature]</u>
EFFECTIVE 11/5/2013
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

JSEWD RATES
(EFFECTIVE NOVEMBER 5, 2013)

5/8" Meter - Connection Fee \$950.00 (effective July 10, 2013)

First 2,000 gallons	26.28	Minimum Bill	26.28
Next 2,000 gallons	7.49	per 1000 gals	14.98
Next 2,000 gallons	7.39	per 1000 gals	14.78
Next 10,000 gallons	7.29	per 1000 gals	72.90
Next 8,000 gallons	7.19	per 1000 gals	57.52
Over 24,000 gallons	7.09	per 1000 gals	

1" Meter - Connection Fee \$1200.00 (effective July 10, 2013)

First 10,000 gallons	85.20	Minimum Bill	85.20
Next 6,000 gallons	7.29	per 1000 gals	43.74
Next 8,000 gallons	7.19	per 1000 gals	57.52
Over 24,000 gallons	7.09	per 1000 gals	

2" Meter

First 24,000 gallons	186.46	Minimum Bill	186.46
Over 24,000 gallons	7.09	per 1000 gals	

Sewer

First 2,000 gallons	20.14	Minimum Bill	20.14
Over 2,000 gallons	10.07	per 1000 gals	

* 3% Utility Tax on all usage

** 6% Sales Tax on Commercial usage

*** \$6.50/per month Surcharge on all Southeast customers

**** All Water Renters - \$50.00 Reimbursable Deposit

**** All Sewer Renters - \$75.00 Reimbursable Deposit

***** Billing 20th of each month - 10% penalty after 10 days
 service locked after 20 days - \$25 reconnecting fee

STATE APPLICATOR IDENTIFIER # (SAI)

Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

WX21113016

3N-2014

229N-2008

SAI# KY20140407-0323

**Clearinghouse Endorsement
With Heritage Council Concurrence**



STEVEN L. BESHEAR
GOVERNOR

DEPARTMENT FOR LOCAL GOVERNMENT
OFFICE OF THE GOVERNOR
1024 CAPITAL CENTER DRIVE, SUITE 340
FRANKFORT, KENTUCKY 40601-8204
PHONE (502) 573-2382 FAX (502) 573-2939
TOLL FREE (800) 346-5606
WWW.DLG.KY.GOV

TONY WILDER
COMMISSIONER

April 25, 2014

Mr. John Horne
Horne Engineering, Inc.
216 S. Main Street
Nicholasville, KY 40356

RE: Catnip Hill Pike 750,000 Gallon Elevated Storage Tank
WX21113016
SAI# KY20140407-0323
CFDA# 10.760

Dear Mr. Horne:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, has completed its evaluation of your proposal. The clearinghouse review of this proposal indicates there are no identifiable conflicts with any state or local plan, goal, or objective. Therefore, the State Clearinghouse recommends this project be approved for assistance by the cognizant federal agency.

Although the primary function of the State Single Point of Contact is to coordinate the state and local evaluation of your proposal, the Kentucky State Clearinghouse also utilizes this process to apprise the applicant of statutory and regulatory requirements or other types of information which could prove to be useful in the event the project is approved for assistance. Information of this nature, if any, concerning this particular proposal will be attached to this correspondence.

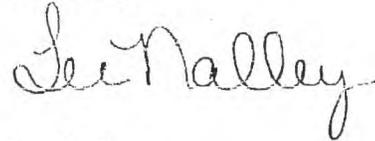
You should now continue with the application process prescribed by the appropriate funding agency. This process may include a detailed review by state agencies that have authority over specific types of projects.

This letter signifies only that the project has been processed through the State Single Point of Contact. It is neither a commitment of funds from this agency or any other state or federal agency.

The results of this review are valid for one year from the date of this letter.
Continuation or renewal applications must be submitted to the State Clearinghouse annually. An application not submitted to the funding agency, or not approved within one year after completion of this review, must be re-submitted to receive a valid intergovernmental review.

If you have any questions regarding this letter, please feel free to contact my office at 502-573-2382.

Sincerely,

A handwritten signature in cursive script that reads "Lee Nalley". The signature is written in black ink and is positioned to the right of the word "Sincerely,".

Lee Nalley
Kentucky State Clearinghouse

Attachments

The KY Dept. of Transportation has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

Blair (7), Bret: In the event construction activities encroach upon state maintained right of way, it may become necessary to obtain a standard encroachment permit. Permit requests and questions may be directed to: Ricky Sizemore, District Seven Highway Dept. Permits Engineer, 763 W New Circle Road, Lexington, KY 40512 (859.246.2355 / ricky.sizemore@ky.gov).
[Reviewer: Bret Blair, D7-Planning / 859.246.2355 / bret.blair@ky.gov]

The Kentucky Housing Corporation has made the following advisory comment pertaining to State Application Identifier Number KY201404070323
No comments.

The Kentucky Infrastructure Agency has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

Project reviewed in the WRIS Project Profile by KIA staff.

The Labor Cabinet has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

PW RATES MAY APPLY IF PROJECT COST EXCEEDS \$250,000.00. CONTACT KY LABOR CABINET AT 502 564 3534

The KY State Fish & Wildlife has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

Based on the information provided, the Kentucky Department of Fish & Wildlife Resources has no comments concerning the proposed project. Please contact Dan Stoelb @ 502-564-7109 ex. 4453 or Daniel.Stoelb@ky.gov if you have further questions or require additional information.

The Natural Resources has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

This review is based upon the information that was provided by the applicant through the Clearinghouse for this project. An endorsement of this project does not satisfy, or imply, the acceptance or issuance of any permits, certifications, or approvals that may be required from this agency under Kentucky Revised Statutes or Kentucky Administrative Regulations. Such endorsement means this agency has found no major concerns from the review of the proposed project as presented other than those stated as conditions or comments.

The Jessamine South Elkhorn Water District will need to get this tank approved by the Public Service Commission. A 1,000,000 gallon water storage tank in this area was previously denied by the Public Service Commission. Mark Rasche, Water Infrastructure Branch, (502) 564-3410, Mark.Rasche@ky.gov.

The proposed project is subject to Division of Water (DOW) jurisdiction because the following are or appear to be involved: water storage tank construction. Prior approval must be obtained from the DOW before construction can begin. The applicant must cite the State Application Identifier (SAI #KY201404070323) when submitting plans and specifications.

This project is consistent with the Jessamine County Water Management Plan. It is approved for water management planning. It is approved for water withdrawal by the Water Quantity Management Section of DOW. From the application data, DOW ascertains that the proposed project is not located in a floodplain area; therefore, a floodplain construction permit is not required for this project. Julia Harrod, Watershed Management Branch, (502) 564-3410, Julia.Harrod@ky.gov.

Jessamine South Elkhorn Water District proposes to construct a 750,000 gallon elevated storage tank on property which they own on Catnip Hill Pike. The proposed site is in close proximity to the district's existing elevated storage for the northwest service area and adjacent to an existing 12-inch main; therefore, no line extensions or pump stations will be required. Completion of this project will provide improved water service to 2,400 households, 60 commercial entities, and 3 miscellaneous entities (schools, churches, etc.).

The Engineering Section of the Water Infrastructure Branch of the DOW will review this project when it is submitted for a construction permit. Since this project as described mentions another tank in the same area and the Public Service Commission concerns, hydraulic calculations will need to be submitted with how all tanks in this pressure zone will operate. DOW wants all tanks to cycle completely within seventy-two hours. Excessive storage may result in the tanks not being able to cycle completely within seventy-two hours and could lead to the formation of disinfection byproducts (DBPs), even with water disinfected with chloramines. The Engineering Section will approve this project if it is satisfied that the construction of this tank will not result in disinfection byproducts or nitrification of the water. Construction shall not begin until written approval is received from the DOW. Mark Rasche, Water Infrastructure Branch, (502) 564-3410, Mark.Rasche@ky.gov.

After speaking with the engineer representing the utility, there are not any objections to this project. Byron Bland, Water Infrastructure Branch, (502) 564-3410, Byron.Bland@ky.gov.

Best management practices shall be utilized to reduce runoff from the project into adjacent surface waters. John Brumley, Water Quality Branch, (502) 564-3410, John.Brumley@ky.gov.

No comment. Phil O'dell, Watershed Management Branch, (502) 564-3410, Phillip.O'Dell@ky.gov.

No comment. Sarah Gaddis, Compliance and Technical Assistance Branch, (502) 564-3410, Sarah.Gaddis@ky.gov.

The Division of Enforcement does not object to the project proposed by the applicant. Tim Harrod, Division of Enforcement, (502) 564-2150, Timothy.Harrod@ky.gov.

If the construction area disturbed is equal to or greater than 1 acre, the applicant will need to apply for a Kentucky Pollutant Discharge Elimination System (KPDES) storm water discharge permit.

Utility line projects that cross a stream will require a Section 404 permit from the US Army Corps of Engineers and a 401 Water Quality Certification from DOW.

The Kentucky Division of Water supports the goals of EPA's Sustainable Infrastructure Initiative. This Initiative seeks to promote sustainable practices that will help to reduce the potential gap between funding needs and spending at the local and national level. The Sustainable Infrastructure Initiative will guide our efforts in changing how Kentucky views, values, manages, and invests in its water infrastructure. This website, www.epa.gov/waterinfrastructure/, contains information that will help you ensure your facility and operations are consistent with and can benefit from the aims of the Sustainable Infrastructure Initiative.

The Heritage Council has made the following advisory comment pertaining to State Application Identifier Number KY201404070323

The applicant must ensure compliance with the Advisory Council on Historic Preservation's Rules and Regulations for the Protection of Historic and Cultural Properties (36CRF, Part 800) pursuant to the National Historic Preservation Act of 1966, the National Environmental Policy Act of 1969, and Executive Order 11593.

Thank you for submitting your project for review. Currently, you have not provided enough information to determine this project's potential to impact sites listed or eligible for listing on the National Register of Historic Places.

Per the Section 106 regulations, it is expected that the applicant or responsible agency provide appropriate base information to our office to facilitate a review—including previously identified cultural resources that may be impacted by the proposed undertaking. You may not be aware, but effective July 8, 2013 we instituted a new Section 106 submission process to assist applicants and agencies in providing us the appropriate level of information to make our comments. Please refer to the following website

<http://www.heritage.ky.gov/siteprotect/> where you will find three separate documents to assist you in submitting additional information to our office for review. Those documents include a memo outlining the standardized Section 106 submission process, a Section 106 Cover sheet that must be included with all submissions to our office, and instructions for the proper completion of the required cover sheet and associated information. Please include the SAI# when submitting additional information to the Kentucky Heritage Council.

If you have questions, please contact Yvonne Sherrick of my staff at 502.564.7005, extension 113.

The Housing, Building, Construction has made the following advisory comment pertaining to State Application Identifier Number KY201404070323
no comments



STEVEN L. BESHEAR
GOVERNOR

**TOURISM, ARTS AND HERITAGE CABINET
KENTUCKY HERITAGE COUNCIL**

BOB STEWART
SECRETARY

THE STATE HISTORIC PRESERVATION OFFICE
300 WASHINGTON STREET
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-7005
FAX (502) 564-5820
www.heritage.ky.gov

CRAIG A. POTTS
EXECUTIVE DIRECTOR AND
STATE HISTORIC PRESERVATION OFFICER

May 20, 2014

Judith I. Thacker
Horne Engineering, Inc.
216 South Main Street
Nicholasville, KY 40356

**RE: Proposed 750,000 Gallon Elevated Water Storage Facility, SAI # KY20140407-0323
Catnip Hill Pike, City of Nicholasville, Jessamine County, Kentucky**

Dear Ms. Thacker,

Thank you for providing additional information regarding the above referenced project. Based on the information provided, we would not expect any adverse effect from the project as described. At this time, it is our assessment that the proposed project will not require further cultural resources investigation. However, should the project design or boundaries change this office should be contacted to determine if further consultation is necessary.

Should you have any questions, feel free to contact Yvonne Sherrick of my staff at 502- 564-7005 ext 113.

Sincerely,

Craig Potts, Executive Director
Kentucky Heritage Council and
State Historic Preservation Officer

CP:41570-2

EXHIBIT 5

Additional Covenants or Conditions (if applicable)

To be completed after Project is bid

EXHIBIT 6
CERTIFICATE OF COMPLETION
JESSAMINE-SOUTH ELKHORN WATER DISTRICT
HB235
WX21113016
PROJECT ID # 3N-2014

Pursuant to the Agreement between the Kentucky Infrastructure Authority and the JESSAMINE-SOUTH ELKHORN WATER DISTRICT (the Grantee) for the Project as described in Exhibit 1 of the Agreement, this certificate, signed by the authorized official and the Project Administrator of the Grantee confirms that the following activities are complete.

1. The Project construction has been completed and payment has been made to all vendors and/or contractors for labor, services, materials, supplies, machinery and equipment included in the above referenced Project.
2. All lands, easements, rights of ways, permits or other facilities necessary in connection with the Project have been acquired, constructed, equipped and installed and all costs and expenses incurred in connection therewith have been paid.
3. The Project is complete and is available for the provision of services which are expected to commence on or about _____.

Project Administrator: _____

Authorized Official: _____

Date: _____

Acceptance of Certificate of Completion by Kentucky Infrastructure Authority:

By: _____

Date: _____

EXHIBIT 4

AUTHORIZATION FOR ELECTRONIC DEPOSIT
OF GRANTEE PAYMENT
KENTUCKY INFRASTRUCTURE AUTHORITY

WRIS #: WX21113016

Project ID#: 3N-2014

Grantee: JESSAMINE-SOUTH ELKHORN WATER DISTRICT

Address: P o Box 731
City: Nicholasville State: Ky Zip: 40340
Telephone: 859/881-0589 Contact: Diana Clark
E-mail address: jessaminesouth@windstream.net
Federal I.D. #: [REDACTED]

Financial Institution Information:

Bank Name: United Bank
Branch: _____ Phone No: 859/885-0900
City: Nicholasville State: Ky Zip: 40356
Transit / ABA No.: [REDACTED]
Account Name: JSEWD Capital Construction
Account Number: [REDACTED]

I, the undersigned, authorize payments directly to the account indicated above and to correct any errors which may occur from the transactions. I also authorize the Financial Institution to post these transactions to that account.

Signature: Diana Clark Date: 6-27-14
Name Printed: Diana Clark Job Title: Office Manager

Please return completed form to: Kentucky Infrastructure Authority
1024 Capital Center Drive, Suite 340
Frankfort, KY 40601
phone: 502-573-0260
fax: 502-573-0157

Date: Tuesday, October 7, 2014 11:13 AM
From: Karyn Leverenz <kleverenz@bgadd.org>
To: 'John Horne' <john@horneeng.com>, jessaminesouth@windstream.net
Subject: JSEWD - Catnip Hill Pike 750,000 Gallon Elevated Storage Tank

ADD_ID	PNum	Funding_Source	Project_Status	Amount	Applicable_Date
BGADD	WX21113016	HB 380 Community Development Grant	Approved	\$ 180,000.00	4/24/2006
BGADD	WX21113016	HB 380 Non-Coal Grant	Approved	\$ 150,000.00	4/24/2006
BGADD	WX21113016	HB 380 Non-Coal Grant	Approved	\$ 110,000.00	4/24/2006

John,

KIA is making some changes/updates to the funding sources portion of project profiles. Could you confirm that this project has the above funding sources actually committed? If so can you send me what t need this no later than Friday.

Thanks,

Karyn Leverenz, MPA
Water Management Planner
Bluegrass Area Development District
p: 859-269-8021
f: 8592697917

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Jessamine-South Elkhorn Water District

Information Request No. 25: Please produce all documents in the possession, custody or control of the District that were submitted to or received from either house of the Kentucky General Assembly or to or from any committee of either house of the Kentucky General Assembly or to or from any member of the General Assembly or to or from any aides or employees on the staff of any member of the General Assembly relating to the storage of water by the District or the legislative grants described in paragraph 7, 12(e), and 16 of the Application in this proceeding.

Answer: See separate volume.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 26: Please provide all documents the District submitted to or received from the Kentucky Rural Water Finance Corporation with regard to loans and/or funding for the project proposed in this proceeding.

Answer: All such documents have been previously filed in the record.

[Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 27: Please provide the minutes and attendance logs from any and all meetings of District representatives in which the water tank proposed in this proceeding or the storage of water was mentioned or discussed since the date of the most recent minutes produced in Case No. 2012-00470.

Answer: See attached.

[L. Nicholas Strong]

January 3, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on January 3, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson, Jerry Haws, Tom Beall and J F Hall. Bruce Smith, John Horne, Christopher Horne, Tom Smith, Richard Decker and Diana Clark were also present.

There was a review of the Aged Receivables.

Mr. Smith reported that a conference call with Wuetcher and Moore was scheduled for this morning to discuss the **Forest Creek** proposed settlement; however, neither Wuetcher nor Moore called. All but one of the Forest Creek signees has signed the agreement.

Mr. Strong reported that Bob Damron suggested a meeting with a PSC representative concerning the **Catnip Tank** / Forest Hills complaint. A future meeting will be scheduled.

There was a discussion on supplying the City of Nicholasville with a District Hydraulic Model with regard to the proposed interconnection. It was suggested to meet with Calkins and the Mayor to discuss the project before releasing any hydraulics. It was also suggested that any information released be protected by a confidentiality agreement signed by the City and the City's engineer.

Mr. Horne recommended 1/30/14 as the bid date for the **Northwest/Dixon Project**. The project will be one contract with the construction divided into two contracts designated as East and West. This is due to the area of the project. A motion to approve the bid date and authorize Horne Engineering to advertise the project was made by Mr. Hall, seconded by Mr. Beall – approved.

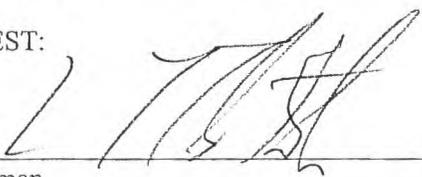
A motion to approve the minutes of the December meeting was made by Mr. Hall, seconded by Mr. Haws – approved.

A motion to approve the December bills and pre-approval for the contractual payables was made by Mr. Robinson, seconded by Mr. Hall – approved.

The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

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

ATTEST:



Chairman

February 5, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on February 5, 2014, with the following Commissioners present: Nick Strong, Jerry Haws, Tom Beall and J F Hall. Bruce Smith, John Horne, Christopher Horne, Ron Eldridge, Richard Decker and Diana Clark were also present.

Roger Griffis, 1805 Watts Mill, addressed the Board concerning a high water usage. Mr. Griffis was offered an adjustment by the staff (\$380.00 to \$197.11) and the meter was pulled and tested and it tested within normal limits. The Board told Mr. Griffis that the adjustment was all that could be done because the meter accurately registered the usage. It is not the responsibility of the District to determine where the water went after passing through the meter.

There was a review of the Aged Receivables.

Mr. Smith reported that the **Forest Creek** proposed settlement is still not fully signed by all of the Forest Creek parties.

There was a lengthy discussion on the **Catnip Tank** second application. March 1st is set as the deadline for submitting the application to PSC in order to hopefully receive a decision from PSC by June 1st on approval to construct the tank.

Mr. Strong is arranging a meeting with Tom Calkins and the involved parties to discuss the interconnection line.

Mr. Strong reported that **Ron Eldridge Excavating** has resigned from the District's Maintenance Contract. **H & M Construction** has requested to fulfill the contract, with Eldridge as heavy equipment backup, since they have been handling most of the maintenance as subcontractors for Eldridge. A motion to approve an annual contract at existing rates with H & M was made by Mr. Haws, seconded by Mr. Beall – approved.

Richard Decker will be the District's contact between the customer and H & M for all maintenance and repairs. The work orders will be supplied and approved, as well as, approval of the invoice by Richard. A motion to approve an increase effective immediately of \$7500 to Richard's salary was made by Mr. Haws, seconded by Mr. Hall – approved.

Mr. Horne reported that Akins Construction was the low bid for both the East and West Contracts for the **Northwest/Dixon Project**. The procedure is to request approval on the contractor from Division of Water for this SRF project. Mr. Horne will check the contractor's references.

The Board agreed that Tom Smith could buy the junked meters from the District for \$2 per 5/8" meter. It was later agreed by Tom and Richard that Tom would pay \$3 per 1" meter and \$4 per 2" meter.

There was a discussion on taking bids for the 2014 auditor. Mr. Smith will contact three auditors about offers to bid.

A motion to approve the minutes of the January meeting was made by Mr. Hall, seconded by Mr. Beall – approved.

A motion to approve the January bills and pre-approval for the contractual payables was made by Mr. Haws, seconded by Mr. Hall – approved.

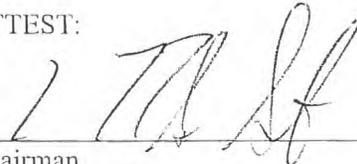
Minutes
February 5, 2014
Page 2

There was a discussion about using the sewer grants on the Ichthus project for the Catnip Hill Tank project since the Ichthus project is not going forward. Motion by Haws, second by Beall to request reallocation of the sewer grants to the Catnip Hill Tank project by resolution - approved

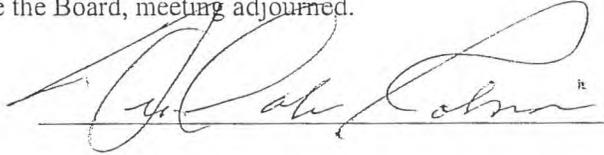
The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

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

ATTEST:



Chairman



Secretary

March 5, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on March 5, 2014, with the following Commissioners present: Nick Strong, Jerry Haws, Tom Beall and J F Hall. Bruce Smith, John Horne, Christopher Horne, Tom Smith, Richard Decker, Steve Hudson, Johnnie McCollum and Diana Clark were also present.

There was a review of the Aged Receivables.

Mr. Smith reported that the **Forest Creek** proposed settlement is still ongoing.

Mr. Strong reported that bond interest rates had increased; therefore, the District will stay with the present loans.

Mr. Smith presented the re-application on the **Catnip Hill Tank** for the Chairman to sign. This application is requesting a 750K tank with an alternative 500K tank.

A motion to approve Akins Construction as the contractor for the East and West Contracts for the **Northwest/Dixon Project** was made by Mr. Hall, seconded by Mr. Beall- approved.

There was a brief discussion on auditors for 2014.

A motion to approve the minutes of the February meeting was made by Mr. Haws, seconded by Mr. Beall – approved.

A motion to approve the February bills and pre-approval for the contractual payables was made by Mr. Hall, seconded by Mr. Haws – approved.

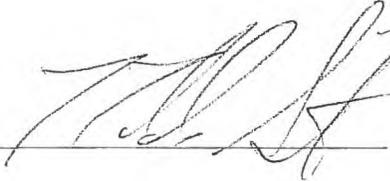
The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

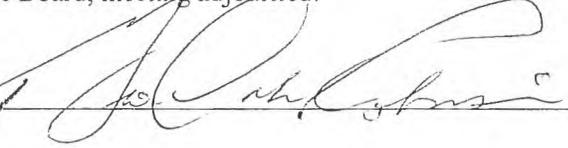
A motion to go into closed session to discuss Patty Hazelett's evaluation was made by Mr. Beall, seconded by Mr. Hall – approved.

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

ATTEST:


Chairman


Secretary


Treasurer

April 2, 2014

The Board of Commissioners of the Jessamine South Elkhorn Sewer Division met on April 2, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson and Tom Beall. Bruce Smith, John Horne, Tom Smith, Richard Decker, Christopher Horne, Johnnie McCollum, Jennifer Rodgers and Diana Clark were also present.

Randall Wright, Collins Wright Benefits Group, addressed the Board with insurance renewal information. A motion to approve the Humana policy was made by Mr. Beall, seconded by Mr. Robinson – approved.

There was a review of the Aged Receivables.

Mr. Smith reported that the **Brannon Crossing, Noland Farm Phase 5, and Noland Phase 6, 2nd Amended** bond litigation is still ongoing.

Mr. Smith reported that the **Southland Christian Church** conveyance of the sewer line is still ongoing. Mr. Smith is informing SCC that the line would be monitored daily; the District does have the means to pull the pump, if necessary; the cost to tie in that system to the District's telemetry would be the responsibility of SCC; and the District would not pay for the order-control chemicals.

There was discussion on the MOU request by Ashtree, Unit 3. A motion to approve the signing of the SSEA for **Ashtree, Unit 3** was made by Mr. Robinson, seconded by Mr. Beall-approved.

Mr. Smith presented the signed contract from **H & M Construction** for the Chairman to sign.

Mr. Smith informed the Board that the three previously awarded grants (\$440,000) for sewer projects have been approved for transfer to the **Catnip Hill Tank** project.

A motion to approve the amended minutes of the March meeting was made by Mr. Robinson, seconded by Mr. Beall – approved.

The motion to approve the March bills and pre-approval of contractual payables was made as a Water item.

The Commissioners were given the following reports for review: Income Statement and Balance Sheet.

A motion to go into closed session to discuss Diana Clark's evaluation was made by Mr. Beall, seconded by Mr. Robinson – approved.

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

ATTEST:



Chairman



April 2, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on April 2, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson and Tom Beall. Bruce Smith, John Horne, Christopher Horne, Tom Smith, Richard Decker, Johnnie McCollum, Jennifer Rodgers and Diana Clark were also present.

Randall Wright, Collins Wright Benefits Group, addressed the Board with insurance renewal information. A motion to approve the Humana policy was made by Mr. Beall, seconded by Mr. Robinson – approved.

There was a review of the Aged Receivables.

Mr. Smith reported that the **Forest Creek** proposed settlement has still not been fully signed by Forest Creek; therefore, the case is still pending with PSC. Smith also advised that the younger James Kelley had contacted the staff lawyer for the PSC (Ann Ramser) to complain about lack of progress on the matter. There is a conference call scheduled with the PSC (Ramser), Smith and Forest Creek counsel on April 22, 2014.

Mr. Smith reported that the PSC issued an Order requiring the submission of plans, specs and permits for a 750,000 gallon tank before it would proceed with the Catnip Hill Tank CPCN. The Attorney General's office has intervened and Forest Hills also filed a motion to intervene which the District will oppose.

A motion to approve Change Order #1 for the **Northwest/Dixon Project, East Contract** was made by Mr. Robinson, seconded by Mr. Beall- approved.

A motion to approve Change Order #1 for the **Northwest/Dixon Project, West Contract** was made by Mr. Robinson, seconded by Mr. Beall- approved.

Mr. Smith reported that a complaint had been filed with EEOC by Brenda Myers who was employed part time by the District for a short period of time in August of 2013. Mediation is not recommended and EEOC has no jurisdiction with employers with less than fifteen (15) employees. A motion will be filed to dismiss this claim.

Mr. Smith presented the signed contract from **H & M Construction** for the Chairman to sign.

Mr. Smith informed the Board that the three previously awarded grants (\$440,000) for sewer projects have been approved for transfer to the **Catnip Hill Tank** project and that the \$1,000,000.00 grant for the tank project had been extended.

Mr. Strong reported that Tom Calkins, City of Nicholasville, stated that the **Interconnection** design would be completed by the end of April and would probably go to bid by the end of 2014.

A motion to approve the minutes of the March meeting was made by Mr. Beall, seconded by Mr. Robinson – approved.

A motion to approve the March bills and pre-approval for the contractual payables was made by Mr. Robinson, seconded by Mr. Beall – approved.

The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

A motion to go into closed session to discuss Diana Clark's evaluation was made by Mr. Beall, seconded by Mr. Robinson – approved.

May 7, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on May 7, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson, Jerry Haws, J F Hall and Tom Beall. Bruce Smith, John Horne, Tom Smith, Richard Decker and Diana Clark were also present.

Leta Mattingly and Nancy Clark, Fain Mattingly and Associates, addressed the Board with a review of the 2013 Audit.

There was a review of the Aged Receivables.

Motion made, seconded and unanimously approved to adjourn to closed session to discuss the Forest Creek litigation. Closed session was conducted. Motion made, seconded and unanimously approved to return to open session. No motions made in open session regarding Forest Creek.

Two **Open Records Requests** regarding Forest Creek have been sent to the District, one by WLEX-18 TV and the Jessamine Journal. Mr. Smith will respond to these Requests.

Mr. Smith reported that he had moved to dismiss **the EEOC complaint** filed on behalf of Brenda Myers due to the total number of employees of the District's not meeting the employment number threshold permitting the EEOC to exercise jurisdiction.

Motion made, seconded and unanimously approved to adjourn to closed session to discuss the **Forest Hills – Catnip Hill Tank** litigation. Closed session was conducted. Motion made, seconded and unanimously approved to return to open session. No motions made in open session regarding Forest Hills.

Mr. Smith reported that letters had been sent on bids for the 2014 Auditor.

A motion to approve Pay Estimate #1 on the **Northwest/Dixon Project** for Akins Excavating was made by Mr. Robinson, seconded by Mr. Beall- approved.

A motion to approve the request to the City of Nicholasville to provide its Hydraulic Model on the **City of Nicholasville Interconnect** was made by Mr. Hall, seconded by Mr. Robinson – approved.

There was a brief discussion on the water loss.

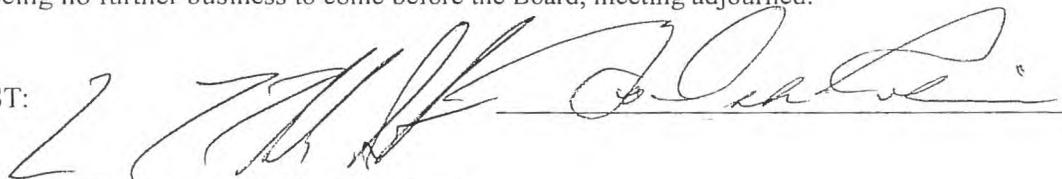
A motion to approve the minutes of the April meeting was made by Mr. Robinson, seconded by Mr. Hall – approved.

A motion to approve the April bills and pre-approval for the contractual payables was made by Mr. Haws, seconded by Mr. Hall – approved.

The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

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

ATTEST:



Chairman

June 4, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on June 4, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson, and Jerry Haws. Bruce Smith, John Horne, Christopher Horne, Tom Smith, Richard Decker and Diana Clark were also present.

There was a review of the Aged Receivables.

A motion was made to adjourn to closed session to discuss the Forest Creek litigation by Mr. Robinson, seconded by Mr. Haws - approved. Closed session was conducted. A motion was made to return to open session by Mr. Robinson, seconded by Mr. Haws – approved. No motions made in open session regarding Forest Creek

The City of Nicholasville Interconnect was reviewed. No action taken.

Mr. Smith reported that he had received two responses from the request for bids for a new **Auditor**. A motion to approve the submittal from Ray, Foley, Hensley & Co and engage Ray, Foley on a one –year contract was made by Mr. Haws, seconded by Mr. Robinson – approved.

A motion for Mr. Strong to sign Pay Estimate #2 for the **Northwest Hydraulic Project – East Contract** was made by Mr. Haws, seconded by Mr. Robinson – approved.

A motion for Mr. Horne to submit the application to the Kentucky Division of Water for the **Catnip Tank** was made by Mr. Robinson, seconded by Mr. Haws – approved.

There was a brief discussion on the procedure for calculating Overhead between the water and sewer divisions. This will be left up to the new auditor to determine if changes need to be made.

A motion to approve the minutes of the May meeting was made by Mr. Haws, seconded by Mr. Robinson – approved.

A motion to approve the May bills and pre-approval for the contractual payables was made by Mr. Robinson, seconded by Mr. Haws – approved.

The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

The Board went into Executive Session to discuss Larry Wagoner’s evaluation and the status of Jennifer Rodgers.

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

ATTEST:

Chairman

July 2, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on July 2, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson, Tom Beall and JF Hall. Bruce Smith, John Horne, Christopher Horne, Tom Smith, Richard Decker, Jennifer Rodgers and Diana Clark were also present.

There was a review of the Aged Receivables.

A motion was made to adjourn to closed session to discuss the Forest Creek litigation by Mr. Hall, seconded by Mr. Robinson - approved. Closed session was conducted. A motion was made to return to open session by Mr. Hall, seconded by Mr. Robinson – approved. No motions made in open session regarding Forest Creek

There was a brief discussion regarding the **Catnip Hill Tank**. A letter is to be sent to a new property owner that may be unaware of the tank going in next to his property.

Mr. Strong updated that the City of Nicholasville Interconnect is progressing.

A motion for Mr. Strong to sign Pay Estimate #3 for the **Northwest Hydraulic Project – East Contract** was made by Mr. Robinson, seconded by Mr. Hall – approved.

A motion for Mr. Strong to sign Pay Estimate #1 for the **Northwest Hydraulic Project – West Contract** was made by Mr. Hall, seconded by Mr. Robinson – approved.

A motion to adopt **KIA Resolution for Project ID 3N-2014** was made by Mr. Robinson, seconded by Mr. Beall – approved.

A motion to accept **KIA Grant Assistance Agreement of Project ID #3N-2014** in the amount of \$440,000 for WRIS Number WX21113016 and authorize Chairman Strong to execute necessary documents was made by Mr. Robinson, seconded by Mr. Beall – approved.

A motion to approve the agreement for Engineering Services with Horne Engineering, Inc. for the 0.75MG **Catnip Hill Tank Project** (WX21113016) which is to replace the current engineering agreement was made by Mr. Robinson, seconded by Mr. Beall – approved.

A motion to approve the amendment of the Project Administrators Agreement with Horne Engineering, Inc. for project WX21113016 to include the additional grant of \$440,000 (Grant ID: 3N-2014) at no increase in fee was made by Mr. Robinson, seconded by Mr. Beall – approved.

Mr. Smith reported that the EEOC declined to take any action on the complaint received by Mrs. Meyers. Meyers will have 90 days from the date of the notice (June 23, 2014) in which to file suit in the federal district court. Otherwise, the matter will be closed.

Mr. Strong discussed reviewing both **Commercial Loans** we have. A motion for Mr. Strong to solicit additional loan terms was made by Mr. Beall, seconded by Mr. Robinson – approved.

A motion to approve the minutes of the June meeting was made by Mr. Hall, seconded by Mr. Beall – approved.

A motion to approve the June bills and pre-approval for the contractual payables was made by Mr. Beall, seconded by Mr. Robinson – approved.

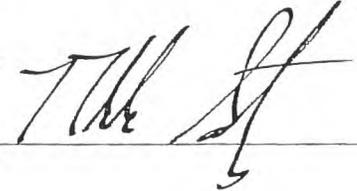
The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

The August meeting date was re-scheduled to Wednesday, August 13, 2014.

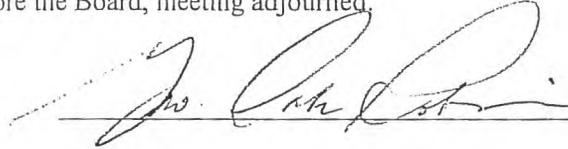
The Board went into Executive Session to discuss status of Jennifer Rodgers.

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

ATTEST:



Chairman



August 13, 2014

The Board of Commissioners of the Jessamine South Elkhorn **Water** District met on August 13, 2014, with the following Commissioners present: Nick Strong, George Dale Robinson, Tom Beall, Jerry Haws, and JF Hall. Bruce Smith, John Horne, Christopher Horne, Richard Decker, and Diana Clark were also present.

There was a review of the Aged Receivables.

A motion was made to adjourn to closed session to discuss the Forest Creek litigation by Mr. Hall, seconded by Mr. Haws - approved. Closed session was conducted. A motion was made to return to open session by Mr. Hall, seconded by Mr. Haws – approved. No motions made in open session regarding Forest Creek

There was a brief discussion regarding the **Catnip Hill Tank**. Mr. Smith reported that we have submitted the plans, specs and approvals to PSC and are waiting on a scheduling order from the PSC.

There was a brief discussion regarding the City of Nicholasville Interconnect. Tom Calkins is to provide a letter outlining points of agreement.

There was a brief discussion regarding two Commercial Loans currently held by Farmer's Bank. More research is needed. 1.) Does District currently have a RD water loan? 2.) Does RD protection extend to RD sewer loan in North Jessamine service area.

A motion for Mr. Strong to sign Pay Estimate #4 for the **Northwest Hydraulic Project – East Contract** was made by Mr. Robinson, seconded by Mr. Beall – approved.

A motion for Mr. Strong to sign Pay Estimate #2 for the **Northwest Hydraulic Project – West Contract** was made by Mr. Robinson, seconded by Mr. Hall – approved.

A motion for Mr. Strong to sign Change Order #3 for the **Northwest Hydraulic Project – East Contract** for Almahurst Lane was made by Mr. Haws, seconded by Mr. Robinson – approved.

There was a brief discussion regarding access to the **Catnip Hill Tank**. Mark Hutchins does not want the district to use its easement to put a gravel driveway on his 5 acre lot. Alternate option is for Mr. Hutchens to gain permission from Mr. McMillian for the District to utilize the eastern one-half of Old Clay Mills roadbed. If not, District will have to utilize the platted access easement.

A motion to amend the personnel policy to exclude board members from employment practices liability was made by Mr. Robinson, seconded by Mr. Beall – approved.

A motion to approve the minutes of the July meeting was made by Mr. Hall, seconded by Mr. Robinson – approved.

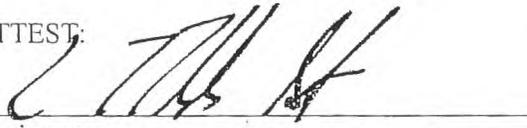
A motion to approve the July bills and pre-approval for the contractual payables was made by Mr. Robinson, seconded by Mr. Hall – approved.

The Commissioners were given the following reports for review: Income Statement, Balance Sheet, Water Loss Report, Aged Receivables, and contractual payables for pre-approval.

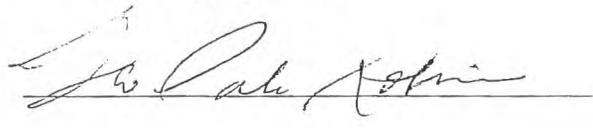
There being no further business to come before the Board, meeting adjourned.

ATTEST:

Chairman



A handwritten signature in black ink, appearing to be 'J. M. H.', written over a horizontal line.



A handwritten signature in black ink, appearing to be 'J. W. Pate', written over a horizontal line.

Jessamine-South Elkhorn Water District

Information Request No. 28: Please identify all persons that participated in the preparation of the Storage Analysis dated March 1, 2014, and attached to the Application in this proceeding and state in detail what each person did in the preparation of the Storage Analysis.

Answer: Dallam Harper prepared the population projections, John G. Horne prepared the History and Fire Flows portion, L. Christopher Horne prepared the Storage Requirements and Present Worth Analysis.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 29: Please provide all workpapers, spreadsheets, analyses, source documents and other documents utilized in the preparation of the Storage Analysis dated March 1, 2014, and attached to the Application in this proceeding.

Answer: Subject to the General Objections previously made herein, see attached. Additionally, other documents considered were various publications of the American Water Works Association, which are copyrighted and cannot be reproduced, but are as follows and can be seen on the AWWA website: *Principles and Practices of Water Supply Operations—Water Transmission and Distribution—Fourth Edition*, *Distribution Systems and Operation Management*, *Steel Water-Storage Tanks—Manual of Water Supply Practices M42—Revised Edition*, *Water Resources Planning—Manual of Water Supply Practices M50—Second Edition*, *Computer Modeling of Water Distribution Systems—Third Edition*, *Emergency Planning for Water Utilities—Fourth Edition*, *Distribution System Requirements for Fire Protection—AWWA Manual M31—Fourth Edition*, *American Water Works Association Journal*, February 2013, Volume 105, No. 2—*Projecting demand extremes under climate change using extreme analysis and 2014 Water Shortage Preparedness Survey Results*. Other copyrighted material considered was the *Water Distribution Systems Handbook—2004* authored by Larry W. Mays and published by McGraw-Hill and *Comprehensive Water Distribution Systems Analysis Handbook for Engineers and Planners*, published by MWH Soft, Inc. Other documents considered were the monthly report forms submitted by Kentucky American Water Company from January 2013–December 2013 to the Commonwealth of Kentucky, Division of Water, which can be obtained from said agency; *Kentucky—American Water Company Storage Capacity Analysis—November 15, 2002*, which can be found at the PSC website; *U.S. Fire Administration—Water Supply Systems and Evaluation Methods, Volumes I and II: Water Supply System Concepts*, October 2008, which can be obtained online at the FEMA website; and *Manual of Individual Water Supply Systems*, which can be found at the U.S. EPA website.

[L. Christopher Horne]

Horne, Christopher

From: Kristen Millard [kristen.millard@RaymondJames.com]
Sent: Tuesday, February 25, 2014 11:47 AM
To: christopher@horneeng.com
Cc: Andy Lange
Subject: RE: Jessamine South Elkhorn
Attachments: Jessamine S Elkhorn 20 2.25.14.XLS; Jessamine S Elkhorn 25 2.25.14.XLS; Jessamine S Elkhorn 30 2.25.14.XLS

Hi Christopher, Since you have a variety of options, I just used the \$1,675,000. The average rates and debt service will depend on how long JSE wants to take out the debt, so I attached numbers for a 20, 25 and 30 year term. Also, open market bonds have ascending rates, but I've listed the average rates for each term below. Feel free to call or email me with any questions. When do you think that funding will be needed?

20: 4.12%
 25: 4.38%
 30: 4.60%

Kristen Millard
 First Vice President

Public Finance
 T: 859.232.8249 F: 859.232.8255
 489 East Main Street, Lexington KY 40507

From: Horne, Christopher [mailto:christopher@horneeng.com]
Sent: Tuesday, February 25, 2014 9:57 AM
To: Kristen Millard
Subject: RE: Jessamine South Elkhorn

Kristen,

I need to do some present worth analysis on various alternatives and I am not yet sure which alternatives I will need to consider. So I am including the budget prices for various sized tanks as provided by Caldwell Tanks below. What I need is an interest rate for the PW analysis.

1,000,000 Gallon 70.0' diameter x 38.75' operating head range = \$1,675,000
 750,000 Gallon 60.0' diameter x 38.75' operating head range = \$1,350,000
 500,000 Gallon 50.0' diameter x 37.00' operating head range = \$1,025,000
 400,000 Gallon 50.0' diameter x 30.00' operating head range = \$ 925,000
 250,000 Gallon 43.0' diameter x 25.5' operating head range = \$775,000

The Project Profile currently listed with the KIA is for a 1 million gallon tank and shows project expenses in addition to construction as \$567K. Let me know if you need anything else. Thanks for your quick response, we are under a deadline.

Christopher Horne
 Horne Engineering

2/27/2014

216 South Main Street
Nicholasville, Kentucky 40356
(859) 885-9441 office

From: Kristen Millard [<mailto:kristen.millard@RaymondJames.com>]
Sent: Tuesday, February 25, 2014 9:32 AM
To: Christopher@Horneeng.com
Subject: FW: Jessamine South Elkhorn

Hi Christopher,

Andy Lange with KY Rural Water emailed that you're looking for some numbers for Jessamine South Elkhorn's PSC application. Do you have a construction amount that I can use in the numbers?

Kristen Millard
First Vice President

Public Finance
T: 859.232.8249 F: 859.232.8255
489 East Main Street, Lexington KY 40507

From: Andy Lange [<mailto:a.lange@krwa.org>]
Sent: Monday, February 24, 2014 4:20 PM
To: Kristen Millard
Subject: Jessamine South Elkhorn

Kristen,

Could you send Christopher Horne of Horne Engineering an estimate of interest rates for their tank project? He said he needs something in writing to include in his PSC filing.

His email is: Christopher@Horneeng.com

Thank you!

--

Andy Lange
Assistant Director
Kentucky Rural Water Association
270.843.2291

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Raymond James & Associates, Inc. The information contained herein is solely intended to suggest/discuss potentially applicable financing applications and is not intended to be a specific buy/sell recommendation, nor is it an official confirmation of terms. Any terms discussed herein are preliminary

2/27/2014

until confirmed in a definitive written agreement. Changes to any prices, levels, or assumptions contained herein may have a material impact on results. Any estimates or assumptions contained herein represent our best judgment as of the date indicated and are subject to change without notice. Examples are merely representative and are not meant to be all-inclusive. Investors, borrowers, or other market participants should not rely upon this information in making their investment/financing decisions. The information set forth herein was gathered from sources which we believe, but do not guarantee, to be accurate.

Horne, Christopher

From: janakypipe@gmail.com on behalf of Jana Faith [jana@kypipe.com]
Sent: Monday, February 17, 2014 10:50 AM
To: christopher@horneeng.com
Cc: Gilbert, Bill
Subject: Re: Future Demand Projections

Christopher,

Of course you can apply global demand factors in the program as you describe and these can be any % you deem appropriate. But unfortunately, I don't know of any growth standards that I have heard of and I'm not sure how useful they'd be. The population in the rural county where I live might even be decreasing, for example, so I think this would be hard to generalize. The census projections sound like your best bet.

If you need any help implementing these global demand factors, let me know. Sorry I don't have a better answer for you.

Regards,

Jana Faith
Pipe2012 Tech Support

On Mon, Feb 17, 2014 at 9:12 AM, Horne, Christopher <christopher@horneeng.com> wrote:

Bill, Jana,

I need to run a model that projects future demands for a system at 10, 20 and 30 years out. I am not aware of any standards or methods to predict future demands. I will be presenting my analysis to the PSC in a contentious case, so I asked the PSC engineering staff if they had any guidance for projecting future demand. They did not have any information. Do either of you know of any methods or standards that would be accepted in the industry for this? Without guidelines, I would think I should just apply a global demand factor to the model with a % increase equal to the census projections. I will have census projections from a third party for the Water District boundary.

Christopher Horne

Horne Engineering

216 South Main Street

Nicholasville, Kentucky 40356

(859) 885-9441 office

Subject CONSIDERATIONS FOR SIZING A TANK

EQUALIZATION ANALYSIS

PSC REGULATIONS

WATER QUALITY

2010 N/A

AVG DD = 743,659 GAL

• NEW TANK = 200,000

RUN KY PIPE:
TANK USES 60% OF VOLUME
IN ORDER TO TURN OVER
IN 72 HOURS
(1.0 M GALLON TANK)

2015

ES = 578,812
FF = 590,000
EM = 191,827 (33% OF
2012 ADD)

N/A

N/A

1,310,639

NEED 760,639 GAL

• NEW TANK = 1,000,000 GAL

ADD = 743,659 (2010)
x 1.3264 (32% INCR)
986,384 GALLONS

RUN KY PIPE TO SEE
HOW MUCH OF THE TANK
IS USED W/ PROJECTED
ADD. ALSO MAY NEED
TO MOVE UPSIZED PUMP
TO KEEP UP W/ NEW DEMAND.
(1.0 M GALLON TANK)

• 500,000 GAL MEETS
MINIMUM REQUIREMENT

2020 N/A

ADD: 986,384
x 1.2380
1,221,144 GAL

↑
SAME

• 750,000 GAL MEETS
MINIMUM REQUIREMENT

IF THIS SHOWS 100% OF TANK
TURN OVER, NO FUTURE MOVING
NECESSARY

2030 N/A

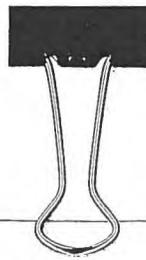
1,221,144
x 1.1804
1,441,438 GAL

↑
↑

• 1,000,000 GAL MEETS
MINIMUM REQUIREMENT

SAME (IF NECESSARY)

2040 N/A



Subject _____

EQUALIZATION STORAGE

AWWA M-32 : ... EQUALIZATION STORAGE COULD EXCEED 30% FOR SMALL SERVICE AREAS...

(WALSKI) HYD DESIGN ... : TYPE OF OPERATION EQ VOL NEEDED (% OF MDD)
OFF PEAK PUMPING 0.25 - 0.50

SPRING HILL, CT : ... TYPICALLY ... BETWEEN 15 AND 30% OF MDD
PRELIM ENG. RPT

MHW SOFT, INC : ... ACCORDING TO THE AWWA MANUAL, THIS STORAGE TYPICALLY VARIES BTW 25% - 35% OF MDD.
COMP. H₂O DIST SYSTEMS ANALYSIS HANDBK

SO:	AWWA	> 30%	} AVG FACTOR = 0.30 OR 30%
	WALSKI	0.25 - 0.50	
	SPRING HILL	15% - 30%	
	MHW SOFT	25% - 35%	

USE 0.30 AS EQUALIZATION FACTOR

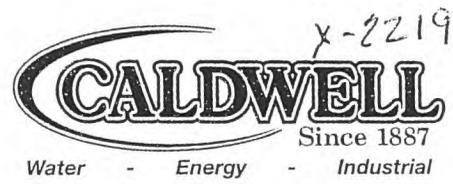
$$\begin{aligned}
 ES &= MDD \times 0.30 \\
 &= \cancel{1,929,375} \times 0.3 = \cancel{578,812} \text{ GALLONS} \\
 &\rightarrow 1,784,250 \times 0.3 = \boxed{535,275}
 \end{aligned}$$

(2010 MDD)

WHERE ES = EQUALIZATION STORAGE (GAL)
MDD = MAXIMUM DAY DEMAND = ~~1,929,375 GAL (JULY 1, 2012)~~
(2010 AND PRIOR) = 1,784,250 GAL (JULY 6, 2010)

AVAILABILITY CERTS
-
REFERENCES NOTE #7
-
-
-

Availability
TPO, B...



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Sales Manager

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Cell: (502) 974-3737
www.caldwelltanks.com
rspangler@caldwelltanks.com

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P.O. Box 35770
Louisville, KY 40232

Maximum Daily Demand (GPD)
2001 - 2012

Date	Demand (GPD)						
09/27/08	1,291,875	08/31/10	1,167,375	07/27/11	1,094,250	07/10/12	1,145,250
09/28/08	1,276,125	09/01/10	1,104,000	07/29/11	1,197,375	* 07/11/12	1,559,250
09/29/08	1,153,875	09/02/10	1,423,875	07/30/11	1,204,875	07/13/12	1,173,000
09/30/08	1,340,625	09/05/10	1,312,500	08/01/11	1,056,000	08/02/12	1,215,375
10/04/08	1,064,750	09/06/10	1,356,750	08/02/11	1,091,250	08/08/12	1,081,875
10/05/08	1,176,000	09/07/10	1,099,125	08/03/11	1,184,250	08/13/12	1,054,875
10/06/08	1,215,375	09/10/10	1,168,125	08/06/11	1,256,250	08/19/12	1,152,750
10/07/08	1,461,750	09/12/10	1,147,500	08/29/11	1,064,250	08/25/12	1,126,875
10/14/08	1,115,250	09/13/10	1,095,375	09/01/11	1,086,375	08/26/12	1,097,625
10/16/08	1,282,500	09/15/10	1,141,875	09/02/11	1,229,625	08/27/12	1,098,350
05/25/09	1,202,625	09/19/10	1,104,000	09/03/11	1,135,500	08/31/12	1,077,375
06/01/09	1,076,250	09/20/10	1,249,875	09/04/11	1,258,125	* 09/02/12	1,718,625
06/02/09	1,192,875	09/22/10	1,158,750	05/26/12	1,655,250	10/15/12	1,169,250
06/07/09	1,520,250	09/24/10	1,198,500	05/28/12	1,185,750		
06/10/09	1,162,875	10/01/10	1,224,750	05/29/12	1,271,250		
06/22/09	1,096,875	10/08/10	1,176,750	06/08/12	1,117,500		
06/24/09	1,076,625	10/11/10	1,299,500	06/09/12	1,172,250		
07/04/09	1,131,375	10/18/10	1,122,375	06/10/12	1,214,625		
07/09/09	1,158,375	10/22/10	1,063,875	06/16/12	1,199,625		
07/10/09	1,093,125	10/24/10	1,138,125	06/17/12	1,172,625		
07/13/09	1,055,250	05/30/11	1,175,250	06/20/12	1,157,625		
07/14/09	1,301,250	06/06/11	1,339,575	06/21/12	1,348,500		
07/20/09	1,201,125	06/07/11	1,219,875	06/22/12	1,595,250		
09/07/09	1,152,750	06/08/11	1,465,125	06/23/12	1,336,875		
* 09/12/09	1,671,000	06/09/11	1,370,250	06/24/12	1,362,000		
06/09/10	1,137,375	06/11/11	1,103,625	* 06/25/12	1,550,250		
06/27/10	1,237,350	06/12/11	1,218,750	06/26/12	1,276,875		
06/30/10	1,055,625	* 06/13/11	1,638,750	06/27/12	1,510,500		
* 07/06/10	1,784,250	07/01/11	1,410,375	06/28/12	1,512,000		
07/08/10	1,392,375	07/02/11	1,296,000	* 06/29/12	1,693,125		
07/09/10	1,378,125	07/03/11	1,249,500	* 06/30/12	1,581,000		
08/06/10	1,250,250	07/05/11	1,289,250	* 07/01/12	1,929,375		
08/07/10	1,537,500	07/06/11	1,178,250	07/02/12	1,510,875		
08/10/10	1,308,875	07/08/11	1,103,250	* 07/03/12	1,777,500		
08/11/10	1,440,000	07/12/11	1,322,250	* 07/04/12	1,601,625		
08/13/10	1,256,250	07/16/11	1,095,375	07/05/12	1,339,875		
08/14/10	1,436,250	07/21/11	1,103,625	* 07/06/12	1,576,125		
08/24/10	1,160,625	07/22/11	1,288,500	* 07/07/12	1,667,250		
08/28/10	1,072,125	07/23/11	1,230,750	* 07/08/12	1,806,000		
08/30/10	1,375,500	07/24/11	1,301,750	07/09/12	1,197,375		

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Comprehensive Water Distribution Systems Analysis Handbook for Engineers and Planners

By Boulos/Lansley/Karney

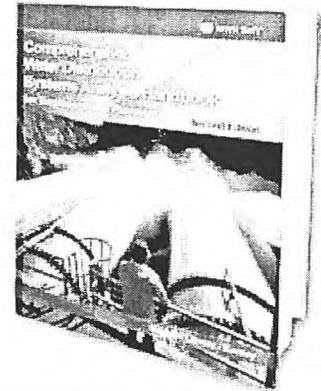
Second Edition: 2006, Hardback, 660 pp.

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Note: Shipping is \$15 within the US (FedEx 2 day)

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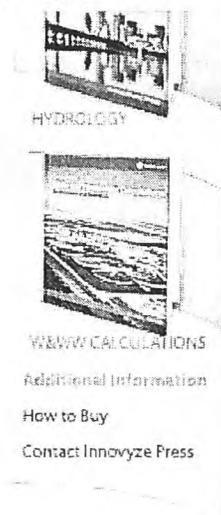
Second Edition Now Available. Place Your Order Today!

The single, go-to resource for water distribution engineering. This comprehensive 660-page instructional textbook covers everything students, professional engineers, managers, modelers, health department officials, government agencies, consultants, researchers and GIS professionals need to know about how to reliably construct, load, and calibrate systems and use rigorous network models to optimize system planning, design, and complex operational activities. Topics range from in-depth coverage of basic network flow theory and dynamic water quality assessment to sophisticated transient flow and pressure calculations.

Written by world-renowned industry experts, **Comprehensive Water Distribution Systems Analysis Handbook For Engineers and Planners** covers the latest in theoretical scientific foundations, advanced technological issues, and real-world network analysis and optimization applications — supported by extensive modeling exercises. Focused on bridging the gap between advanced modeling theory and practical application, the book includes over 100 worked out example problems, detailed hydraulic principles, and step-by-step guidance that walks readers through the complete modeling process from start to successful finish and interpretation of results. It features in-depth examinations of state-of-the-art network modeling and optimization techniques, explores the most current knowledge and technologies, and provides the detailed explanations needed to become a master modeler.

The book is arranged into ten chapters and is written using both SI and US customary units. Its objective is to present the basic principles of water distribution engineering and management and the application of these principles to solving practical, real-life problems. The book can be used to teach water distribution modeling at both the undergraduate and graduate levels, as well as an excellent reference for any water utility professional and engineering consultant.

*"This is definitely a must-have reference textbook. **Comprehensive Water Distribution Systems Analysis Handbook For Engineers and Planners** provides excellent coverage of all important aspects of network modeling and analysis in incredible detail. It is filled with solved problems and practical guidance designed to keep students and modeling professionals engaged, stimulated, and empowered to acquire the state-of-the-art*



to keep students and modeling professionals engaged, stimulated, and empowered to acquire the state-of-the-art knowledge they need to succeed."

-- **Dr. Don J. Wood**, Professor and Director Civil Engineering Software Center, University of Kentucky, Lexington, KY

"In terms of water distribution, this is the most thorough text available for the practicing professional. No kidding; I'm really impressed by the topics covered. The numerous solved problems give the reader the added benefit of seeing and understanding the application of theoretical presentations. It's also great to see so many important realistic topics that are closely associated with the traditional hydraulics aspect of distribution, but are often not covered in water distribution texts (e.g., water quality, master planning, optimization, and even the depth of discussion on hydraulic transients)."

-- **Dr. John W. Nicklow**, P.E., P.H., Assoc. Professor of Civil and Environmental Engineering, Southern Illinois University at Carbondale, IL

"The book is an excellent book. Each chapter contains information that I'm looking for. I'm going to use it to prepare my comprehensive exam. It's a very good handbook and text book. Thanks again."

-- **Jeanne Huang**, Doctorate Student, University of Guelph, Canada

"*Comprehensive Water Distribution Systems Analysis Handbook For Engineers and Planners* is a great resource for professionals involved in all aspects of water distribution systems management. It provides an excellent coverage from basic hydraulic concepts to the latest technologies, along with practical examples in a methodic, easy to grasp language. I found it an extremely useful guide to water systems modeling, planning, design and operation. I give it my highest possible recommendation."

-- **Paul D. Romano**, P.E., Senior Managing Engineer, Shumaker Consulting Engineering and Land Surveying, P.C., Utica, NY

"I got a copy of your new book. It would have been nice to have the book 20 years ago. Nicely written..."

-- **Dr. John Nichols**, Professor of Construction Science, College of Architecture, Texas A&M University, College Station, TX

150

Windhaven

103 Windhaven

OFFICE

$$A = 8320 \text{ SF}$$

$$F = (C-1) \quad 1.5$$

$$O = (C-2) \quad 0.85$$

$$X = \quad \quad \quad 0.13.08$$

$$P = 0$$

$$C = 18(F)(A)^{.5}$$
$$18(1.5)(8320)^{.5}$$

$$18(1.5)(91)$$

$$= 2463$$

$$NFF = (C)(O) [1.0 + (X+P)]$$

$$2463(0.85) [1.0 + (0.13 + 0)]$$

$$2463(0.85) [1.13]$$

$$= 2365 \quad 2261$$

$$= 2500$$

$$\times 120$$

$$= 300,000$$

$$G = \text{VOLUME} \div 100$$

$$(8320 \times 12) \div 100 = 998 = 1,000 \times 120 = 120,000$$



US 68
HARRODSBURG ROAD

- PVA #041-10-04-011.OA
959 SQ. FT.
- PVA #041-10-04-011.OB
899 SQ. FT.
- PVA #041-10-04-011.OC
975 SQ. FT.
- PVA #041-10-04-011.OD
899 SQ. FT.

PVA #041-10-04-010.OO
8320 SQ. FT.

41'

19'

WIND HAVEN DRIVE

8" PVC

#WHO11
2141 GPM

AERIAL 8
WINDHAVEN
SUBDIVISION
(COMMERCIAL)

Street #

SCALE: 1" = 100'

WIND HAVEN DRIVE AND
US 68 - HARRODSBURG ROAD

Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

103 WIND HAVEN DR

Property Information

Owner: 103 WH L L C
 Mailing Address: 535 WELLINGTON WAY #240
 LEXINGTON KY 405031388

Legal Description: Lot: 25R& PAR A
 Block:
 Unit:
 Section:
 DB/PG: 459/404 PC/SL: 631/107

Subdivision: WIND HAVEN
 Tax District: C at 1.016 / \$100 of assessed value
 Parcel ID#: 041-10-04-010.00
 Property Class: Commerical/Industiral
 Lot Size: 150 X 162 IR
 Acreage:

Property Characteristics

Square Feet:	8320	Style:	2 STORY	Year Built:	2000
Bedrooms:	20	Full Bath:	0	Half Bath:	4
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	MAS VEN	Garage/Carport:	N		
HeatType:	FORCAIR	Central Air:	Y		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: \$ 751000
 Homestead Exemption: \$
 Disability Exemption: \$

Taxable Assessment for 2013: \$ 751000
 Taxable Assessment for 2012: \$ 751000

Sales History

Date: 11/09/2001 Price: \$ 751000 DB/PG: 459/404
 Buyer's Name: 103 WH LLC
 Seller's Name: WHITE DON C

Photo

(click photo to enlarge)

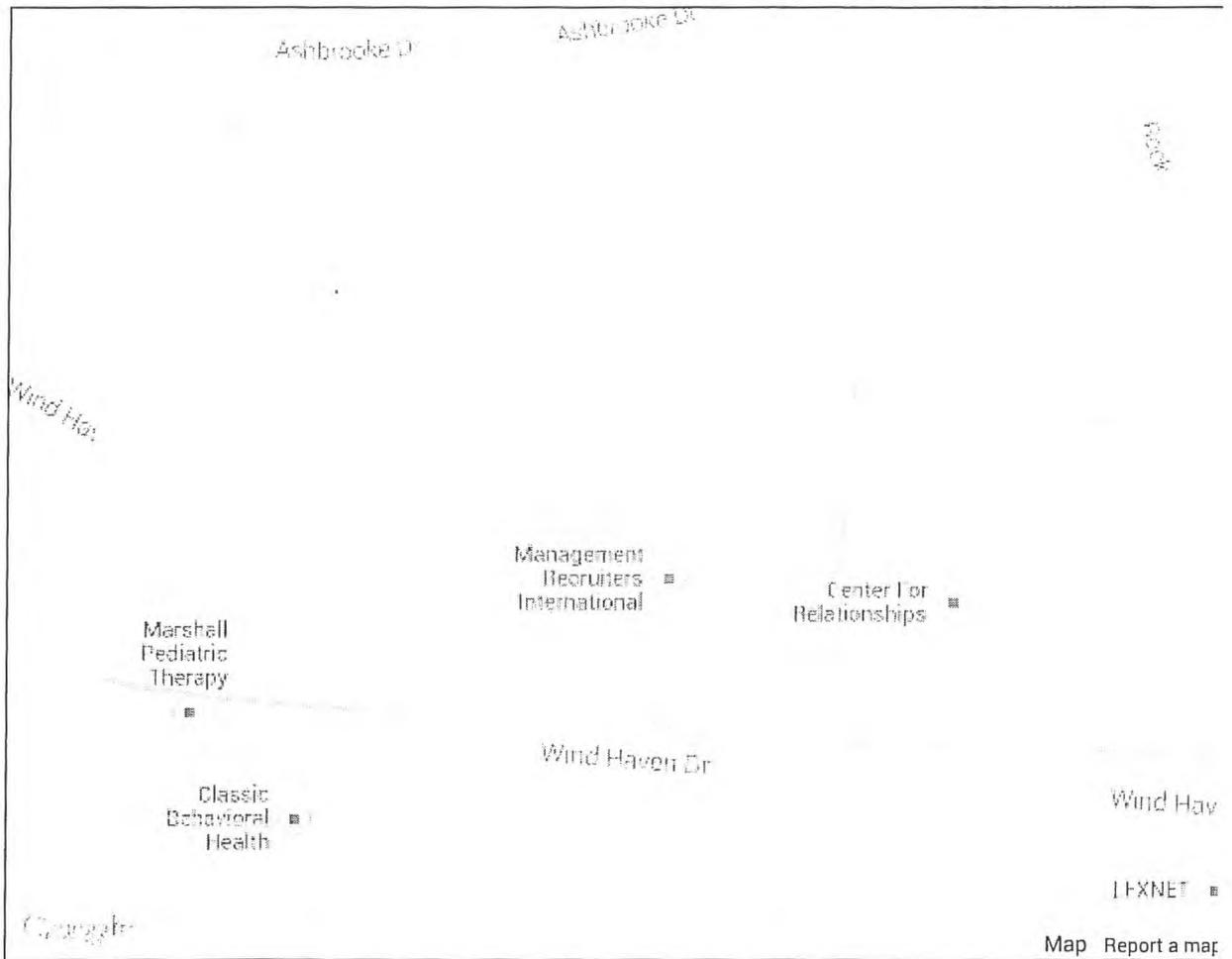


Sketch

(click sktech to enlarge)

<p>103 Wind Haven Drive</p> <p>First Floor 4500 sq ft</p> <p>Second Floor 4500 sq ft</p>	<p>103 Wind Haven Drive</p> <p>First Floor 4500 sq ft</p> <p>Second Floor 4500 sq ft</p>	<p>103 Wind Haven Drive</p> <p>First Floor 4500 sq ft</p> <p>Second Floor 4500 sq ft</p>
<p>✕ Property Sketches</p>		

GIS Map



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Hydrant: Number: WH003

Location: WIND HAVEN 1/2 MI. W. U/S 68

Section or District: NW

Cross Street:

Main Size: 6

Barrel Size: 5.25 inches

Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3 - WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 95 psi

Pitot (Flow): 50 psi

Residual: 50 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 1,186

Potential GPM of this Water Main if taken to 20 psi residual: 1,563

Potential GPM of this Water Main if taken to 0 psi residual: 1,775

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

Hydrant: Number: WH011 Location: WINDHAVEN DR-420' WEST US68

Section or District: NW Cross Street:

Main Size: 8 Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 2 Outlet Sizes: 2-WAY

Self-Draining: Yes

Direction to Open: CCW ± Elevation: 0

Specs: Discharge Opening: 2.50 (inches) Co-Efficient (.70 thru .99): .90

Static: 96 psi Pitot (Flow): 64 psi Residual: 64 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 1,342

Potential GPM of this Water Main if taken to 20 psi residual: 2,141

Potential GPM of this Water Main if taken to 0 psi residual: 2,428

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N
Longitude: 000° 00' 00" W

150

Harrods Ridge
201 Eagle Inn
President

$$A = 5080$$

$$F = 1.0$$

$$O = (C-2) 0.85$$

$$X = 0$$

$$P = 0$$

$$C = 18(F)(A)^{.5}$$
$$18(1.0)(5080)^{.5}$$

$$18(1.0)(71.27)$$

$$= 1283$$

$$NFF = (C)(O)[1.0 + (X+P)]$$

$$= 1283(0.85)[1.0]$$

$$= 1090$$

$$1000 \times 120 = 120,000$$



#HRG007
1007 GPM

PVA #043-00-00-004.04
4608 SQ. FT.

PVA #043-00-00-004.14
4317 SQ. FT.

SILVER FOX DRIVE

#HRG014
1665 GPM

EAGLE DRIVE

#HRG008
1223 GPM

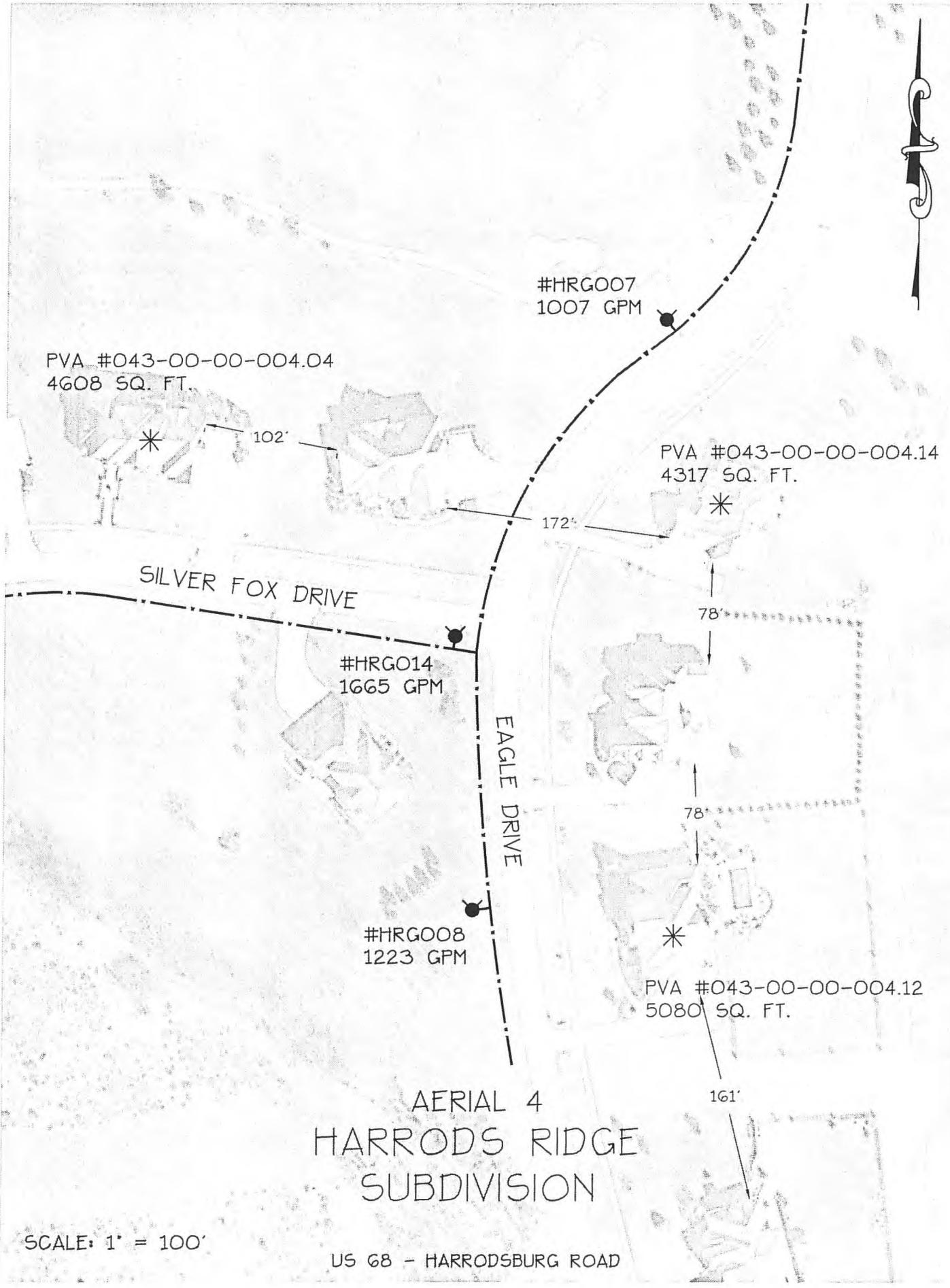
PVA #043-00-00-004.12
5080 SQ. FT.

AERIAL 4
HARRODS RIDGE
SUBDIVISION

SCALE: 1" = 100'

US 68 - HARRODSBURG ROAD

Q:\SCCESWORK\W...re flow Aerial Exhibits.dwg, 2/14/2014 8:40:24 AM





#HRG007
1007 GPM

PVA #043-00-00-004.04
4608 SQ. FT.

* 102'

PVA #043-00-00-004.14
4317 SQ. FT.

172'

78'

SILVER FOX DRIVE

#HRG014
1665 GPM

EAGLE DRIVE

78'

#HRG008
1223 GPM

*

PVA #043-00-00-004.12
5080 SQ. FT.

161'

AERIAL 4
HARRODS RIDGE
SUBDIVISION

SCALE: 1' = 100'

US 68 - HARRODSBURG ROAD

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

201 EAGLE DRIVE

Property Information

Owner: WADDLES RYAN MD & SMITH-WADDLES KANDI MD
Mailing Address: 201 EAGLE DR
NICHOLASVILLE KY 40356

Legal Description: Lot: 33
Block:
Unit: 2
Section:
DB/PG:554/82 PC/SL:PC 9/343

Subdivision: HARRODS RIDGE
Tax District: D at 0.918 / \$100 of assessed value
Parcel ID#: 043-00-00-004.14
Property Class: Residential
Lot Size: 282 X 245 IR
Acreage:

Property Characteristics

Square Feet:	4317	Style:	1.5 STORY	Year Built:	2005
Bedrooms:	4	Full Bath:	3	Half Bath:	2
Basement:	SUNKEN	Bsmt Total Sq Ft:	2841	Bsmt % Finished:	0
Exterior:	MAS VEN	Garage/Carport:	ATTCHD 3		
HeatType:	FORCAIR	Central Air:	Y		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: ~~81~~5000
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 2013: ~~81~~5000
Taxable Assessment for 2012: ~~80~~0000

Sales History

Date: 12/30/2005 Price: \$728320 DB/PG:554/82
Buyer's Name: WADDLES RYAN D MD & SMITH-WADDLES KANDI D MD
Seller's Name: COLLIER CUSTOM HOMES INC

Date: 05/25/2005 Price: \$179000 DB/PG:539/611
Buyer's Name: COLLIER CUSTOM HOMES INC
Seller's Name: DESIGN TRADITIONS INC

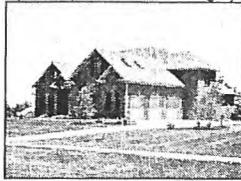
Date: 11/17/2004 Price: \$1540000 DB/PG:528/504

Buyer's Name: DESIGN TRADITIONS
INC

Seller's Name: CORMAN-MCQUEEN
GOLF

Photo

(click photo to enlarge)

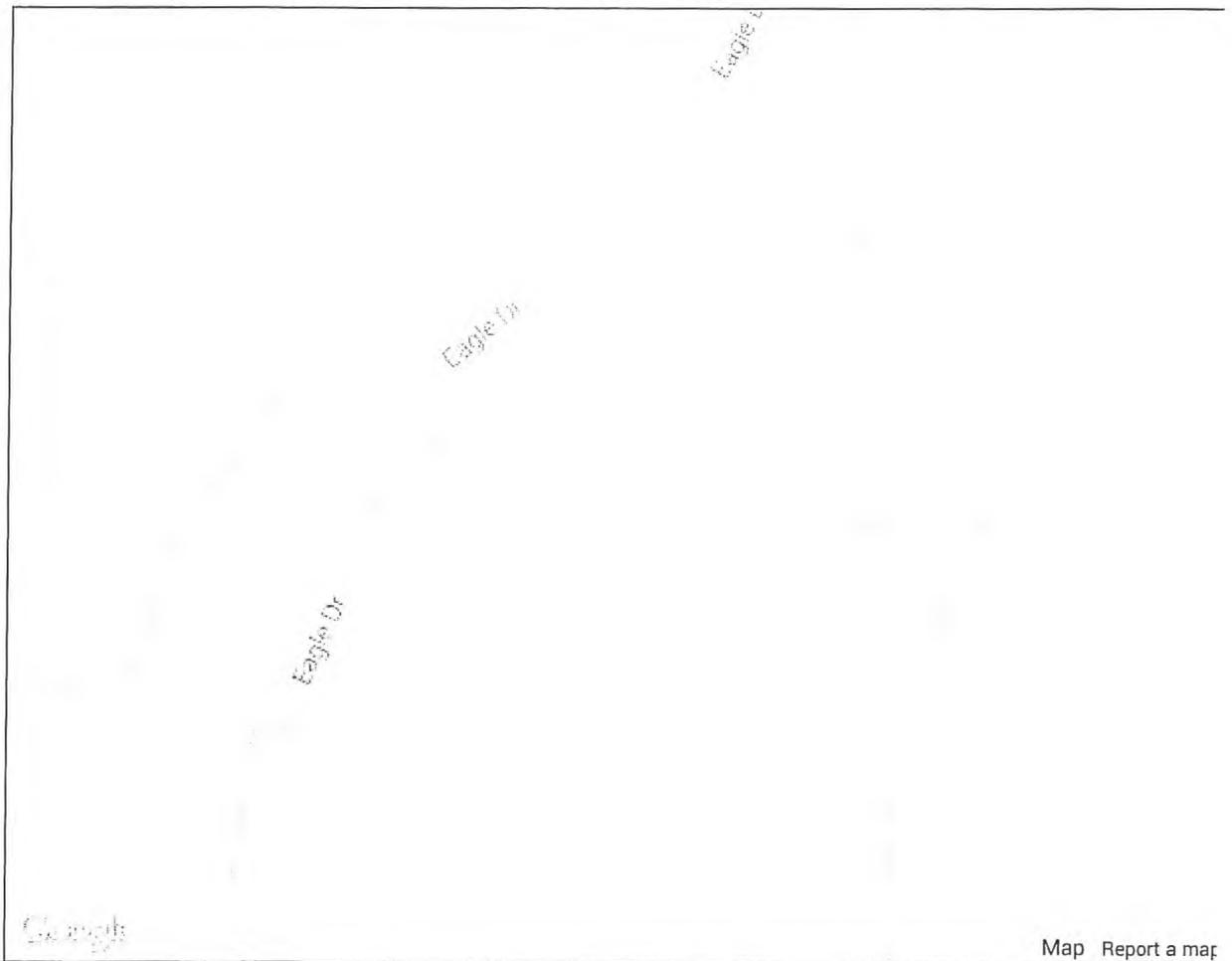


Sketch

(click sktech to enlarge)



GIS Map



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Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

205 EAGLE DRIVE

Property Information

Owner: SIDDIQI MUNAWAR & SAMINA
 Mailing Address: 205 EAGLE DRIVE
 NICHOLASVILLE KY 40356

Legal Description: Lot: 35
 Block:
 Unit: 2
 Section:
 DB/PG:689/424 PC/SL:PC 9/343

Subdivision: HARRODS RIDGE
 Tax District: D at 0.918 / \$100 of assessed value
 Parcel ID#: 043-00-00-004.12
 Property Class: Residential
 Lot Size: 174 X 250
 Acreage:

Property Characteristics

Square Feet:	5080	Style:	1.5 STORY	Year Built:	2005
Bedrooms:	4	Full Bath:	4	Half Bath:	1
Basement:	SUNKEN	Bsmt Total Sq Ft:	3265	Bsmt % Finished:	0
Exterior:	MAS VEN	Garage/Carport:	ATTCHD 4		
HeatType:	FORCAIR	Central Air:	Y		
Fireplace:	2	Pool:	N		

Assessment

Fair Cash Value Total: ~~77~~5000
 Homestead Exemption: \$
 Disability Exemption: \$

Taxable Assessment for 2013: ~~77~~5000
 Taxable Assessment for 2012: ~~11~~34000

Sales History

Date: 05/02/2013 Price: \$698000 DB/PG:689/424
 Buyer's Name: SIDDIQI MUNAWAR & SAMINA
 Seller's Name: CLYMER SAMUEL H III & MARY LOU

Date: 06/30/2006 Price: \$1074000 DB/PG:564/620
 Buyer's Name: CLYMER SAMUEL H III & MARY LOU
 Seller's Name: MONDELLI-BLAIR VENTURES LLC

Date: 04/18/2005 Price: \$179000 DB/PG:537/456

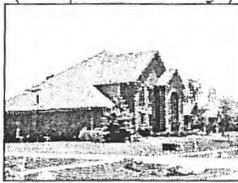
Buyer's Name: MONDELLI-BLAIR VENTURES
LLC

Seller's Name: DESIGN TRADITIONS
INC

Date: 11/17/2004 Price: 1540000 DB/PG:528/504 Buyer's Name:
\$ DESIGN TRADITIONS Seller's Name:
INC CORMAN-MCQUEEN
GOLF

Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



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Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

102 SILVER FOX DR

Property Information

Owner: NOVAK ROBERT ALAN & SUZANNE ELIZABETH
Mailing Address: 102 SILVER FOX DR
NICHOLASVILLE KY 40356

Legal Description: Lot: 44
Block:
Unit: 2
Section:
DB/PG:688/172 PC/SL:PC9/343

Subdivision: HARRODS RIDGE
Tax District: D at 0.918 / \$100 of assessed value
Parcel ID#: 043-00-00-004.04
Property Class: Residential
Lot Size: 152 X 245 IR
Acreage:

Property Characteristics

Square Feet: 4608	Style: 1.5 STORY	Year Built: 2006
Bedrooms: 4	Full Bath: 3	Half Bath: 0
Basement: WALKOUT	Bsmt Total Sq Ft: 2993	Bsmt % Finished: 100
Exterior: MAS/VEN	Garage/Carport: ATTCHD 3	
Heat Type: FORCAIR	Central Air: Y	
Fireplace: 0	Pool: N	

Assessment

Fair Cash Value Total: ~~740000~~
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 2013: ~~740000~~
Taxable Assessment for 2012: ~~600000~~

Sales History

Date: 04/11/2013 Price: \$740000 DB/PG:688/172
Buyer's Name: NOVAK ROBERT ALAN & SUZANNE ELIZABETH
Seller's Name: COMMUNITY TRUST BANK INC

Date: 08/29/2007 Price: \$835615 DB/PG:589/103
Buyer's Name: COMMUNITY TRUST BANK INC
Seller's Name: DREW RICE CONSTRUCTION LLC

Date: 07/27/2005 Price: \$179000 DB/PG:544/148

Buyer's Name: DREW RICE CONSTRUCTION
LLC

Seller's Name: DESIGN TRADITIONS
INC

Date: 11/17/2004 Price: 1540000
\$

DB/PG:528/504

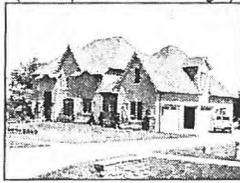
Buyer's Name:

DESIGN TRADITIONS
INC

Seller's Name:
CORMAN-MCQUEEN GOLF
INC

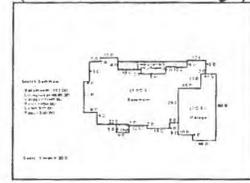
Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



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Hydrant: Number: HRG007

Location: EAGLE DRIVE PL 100

Section or District: NW

Cross Street:

Main Size: 6

Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3 WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 50 psi

Pitot (Flow): 27 psi

Residual: 27 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 872

Potential GPM of this Water Main if taken to 20 psi residual: 1,007

Potential GPM of this Water Main if taken to 0 psi residual: 1,326

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

Hydrant: Number: HRG008

Location: EAGLE OPPOSITE 205

Section or District: NW

Cross Street:

Main Size: 6

Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3 WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 48 psi

Pitot (Flow): 31 psi

Residual: 31 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 934

Potential GPM of this Water Main if taken to 20 psi residual: 1,223

Potential GPM of this Water Main if taken to 0 psi residual: 1,635

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

150

Good Samaritan Lodge

HISTORIC

$$A = 4558$$

$$F = 1.5$$

$$O = \begin{matrix} @-2 & 0.85 \\ @-3 & \overbrace{1.0} \end{matrix}$$

$$X = 0.17$$

$$P = 0$$

$$\begin{aligned} C &= 18 F (A)^2 \\ &= 18 (1.5) (4558)^2 \\ &= 18 (1.5) (67.5) \\ &= 1823 \end{aligned}$$

$$\begin{aligned} NFF &= (C)(O) [1.0 + (X+P)] \\ &= (1823)(0.85) [1.0 + (0.17 + 0)] \\ &= 1823 (0.85) [1.17] \end{aligned}$$

$$= \textcircled{1800} \times \textcircled{120} = \textcircled{216,000}$$

~~@ 0=10 2250 × 120 = 270,000~~

$$= \textcircled{1823} (1.0) [1.17] = 2133 = \textcircled{2250}$$



#KKO20
1333 GPM

1 STORY

2 STORY

4558± SQ. FT.

#KKO18
1362 GPM

6" PVC
KY 1267 - KEENE-TROY PIKE

AERIAL 13
KEENE PARK
(JESSAMINE COUNTY FISCAL COURT)

PVA #020-40-05-020.00

SCALE: 1" = 50'

KY 1267 - KEENE-TROY PIKE AND
KINGSTON ROAD NORTH

Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

KEENE TROY PIKE

Property Information

Owner: JESSAMINE CO FISCAL COURT
 Mailing Address: 101 N MAIN ST
 NICHOLASVILLE KY 403560000

Legal Description: Lot:
 Block:
 Unit:
 Section:
 DB/PG:432/544 PC/SL:

Subdivision:
 Tax District: D at 0.918 / \$100 of assessed value
 Parcel ID#: 020-40-05-020.00
 Property Class: Tax Exempt
 Lot Size: 100 X 250
 Acreage:

Property Characteristics

Square Feet:	2280	Style:	2 STORY	Year Built:	
Bedrooms:	0	Full Bath:	0	Half Bath:	2
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	WOOD	Garage/Carport:			
HeatType:	PROPANE	Central Air:	N		
Fireplace:	2	Pool:	N		

Assessment

Fair Cash Value Total: 0\$
 Homestead Exemption: 0\$
 Disability Exemption: \$

Taxable Assessment for 2013 0 \$

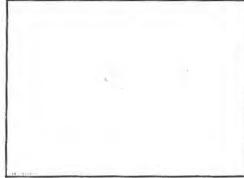
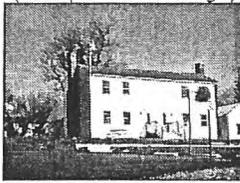
Taxable Assessment for 2012 0 \$

Sales History

Date: 07/27/2000 Price: \$0 DB/PG:432/544
 Buyer's Name: JESSAMINE COUNTY FISCAL COURT
 Seller's Name: ST JOHNS LODGE #19

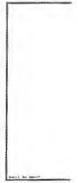
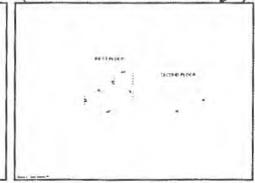
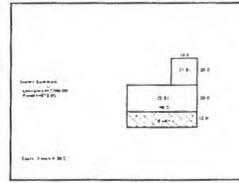
Photo

(click photo to enlarge)

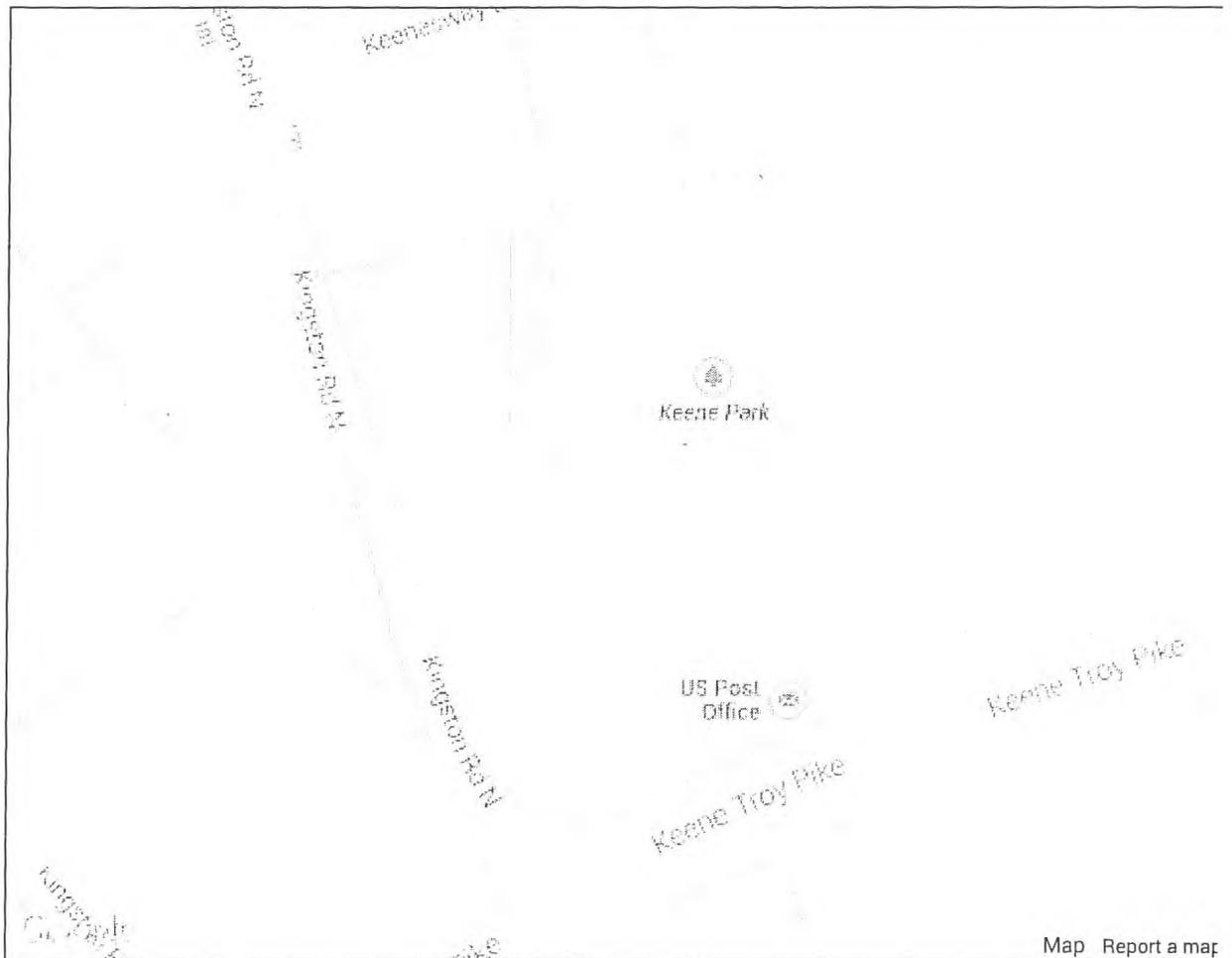


Sketch

(click sktech to enlarge)



GIS Map



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150

RAMSEY
K1-169 Boms

STABLE

$$A = 6820$$

$$F = (C-1) 1.5$$

$$O = (C-4) 1.15$$

$$X = 0.15$$

$$P = 0$$

$$C = 18 F(A)^{.5}$$
$$18(1.5)(6820)^{.5}$$
$$= 2230$$

$$NFF = (C)(O) [1.0 + (X+P)]$$
$$2230(1.15)[1.0 + (0.15 + 0)]$$
$$2230(1.15)[1.15]$$
$$= 2949 \approx 3000$$

$$(\times 180) = 540,000$$

14

$$Q = \text{VOLUME} \div 100$$

$$6820(20) \div 100$$

$$= 1364$$

$$1500$$

$$\times 120$$

$$= 180,000$$

KY 169 - KEENE ROAD

10" PVC

#AHO01
503 GPM

6820 SQ. FT.

4" PVC

27'

#AHO02
531 GPM

6820 SQ. FT.

28'

#AHO03
531 GPM

6820 SQ. FT.



AERIAL 10 RAMSEY FARM

PVA #032-00-00-007.00

KY 169 • ALMAHURST LANE

SCALE: 1" = 100'

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

HARRODSBURG RD

Property Information

Owner: RAMSEY KENNETH LEE & SARAH
Mailing Address: 6915 HARRODSBURG RD
NICHOLASVILLE KY 40356

Legal Description: Lot:
Block:
Unit:
Section:
DB/PG:344/595 PC/SL:

Subdivision:
Tax District: D at 0.918 / \$100 of assessed value
Parcel ID#: 032-00-00-007.00
Property Class: Farm
Lot Size:
Acreage:

Property Characteristics

Square Feet:	11780	Style:	1.5 STORY	Year Built:	
Bedrooms:	20	Full Bath:	0	Half Bath:	1
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	AL/VINL	Garage/Carport:			
HeatType:		Central Air:	N		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: 0\$
Homestead Exemption: 0\$
Disability Exemption: \$

Taxable Assessment for 2013 0 \$
Taxable Assessment for 2012 75387

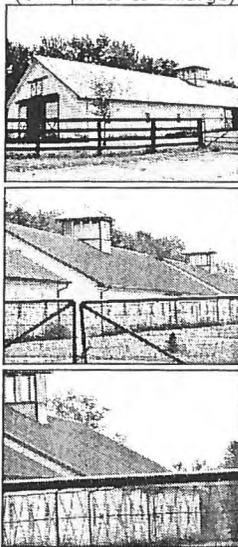
Sales History

Date: 10/07/1994 Price: \$3000000 DB/PG:327/380
Buyer's Name: RAMSEY FARM INC
Seller's Name: FIRST AMERICAN NATIONAL BANK

Date: 05/20/1994 Price: \$3500000 DB/PG:321/179
Buyer's Name: FIRST AMERICAN NATIONAL BANK
Seller's Name: P J BAUGH INDUSTRIES INC

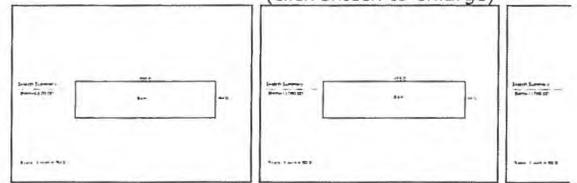
Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



Map Report a map

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Hydrant: Number: AH001

Location: ALMAHURST FARM-160' S. KY 169

Section or District: NW

Cross Street:

Main Size: 4

Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3-WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 94 psi

Pitot (Flow): 9 psi

Residual: 9 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 503

Potential GPM of this Water Main if taken to 9 psi residual: 503

Potential GPM of this Water Main if taken to 0 psi residual: 531

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

Hydrant: Number: AH002 Location: ALMAHURSTFARM 240',S.OF KY169
Section or District: NW Cross Street:
Main Size: 4 Barrel Size: 5.25 inches Mfg: MULLER
Nmbr Outlets: 3 Outlet Sizes: STANDARD 3-WAY
Self-Draining: Yes
Direction to Open: CCW ± Elevation: 0

Specs: Discharge Opening: 2.50 (inches) Co-Efficient (.70 thru .99): .90

Static: 95 psi Pitot (Flow): 10 psi Residual: 10 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 531

Potential GPM of this Water Main if taken to 10 psi residual: 531

Potential GPM of this Water Main if taken to 0 psi residual: 563

000

Remarks:

Special Instructions: NEEDS 12" EXTENSION

Global Positioning

Latitude: 00° 00' 00" N
Longitude: 000° 00' 00" W

Kreene Springs

Historic

$$A = \frac{150}{13,718} \text{ SF}$$

$$F = 1.5$$

$$O = (C-3) \quad 1.00$$

$$X = 0.080$$

$$P = 0$$

$$C = 18F(A)^{.5}$$

$$= 18(1.5)(13,718)^{.5}$$

$$= ~~10,541~~ 3162$$

$$NFF = (C)(O) [1.0 + (X+P)]$$

$$= ~~10,541~~ (1.0) [1.0 + (0.08+0)]$$

$$= ~~10,541~~ (1.0) [1.08]$$

$$= ~~3415~~ 3162$$

$$= \frac{3162}{3000} \text{ gpm}$$

$$\textcircled{3000} \times \textcircled{180} = \textcircled{540,000}$$

$$\textcircled{540,000} - \textcircled{569,160} = \textcircled{630,000}$$

$$G = \frac{14}{\text{VOLUME} \div 100}$$

$$= (13,718 \times 9) \div 100 =$$

$$= 1234$$



PVA #020-30-03-011.00
13718 SQ. FT.

#KKO10
1254 GPM

HILL STREET
6" PVC

6" PVC
KY 1267 - KEENE TROY PIKE

PVA #020-40-07-004.00
4644 SQ. FT.

AERIAL 14
KEENE SPRINGS HOTEL
AND ENVIRONS

SCALE: 1" = 50'

KY 1267 - KEENE-TROY PIKE

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

KEENE TROY PIKE

Property Information

Owner: WILSON JAMES R JR & ANN
Mailing Address: P O BOX 157
KEENE, KY 403399999

Legal Description: Lot:
Block:
Unit:
Section:
DB/PG:PC/SL:

Subdivision:
Tax District: D at 0.918 / \$100 of assessed value
Parcel ID#: 020-40-07-004.00
Property Class: Commerical/Industiral
Lot Size: 220 X 100
Acreage:

Property Characteristics

Square Feet: 4644	Style: 1 STORY	Year Built:
Bedrooms: 0	Full Bath: 0	Half Bath: 2
Basement: N/A	Bsmt Total Sq Ft:	Bsmt % Finished:
Exterior: C BLOCK	Garage/Carport:	
HeatType: ELECTRC	Central Air: Y	
Fireplace: 0	Pool: N	

Assessment

Fair Cash Value Total: ~~13~~5000
Homestead Exemption: 0\$
Disability Exemption: \$

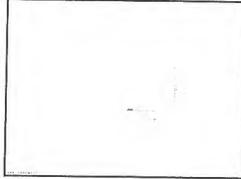
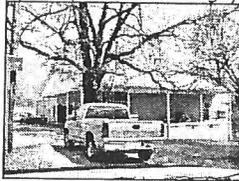
Taxable Assessment for 2013: ~~13~~5000
Taxable Assessment for 2012: ~~13~~5000

Sales History

No Sales History.

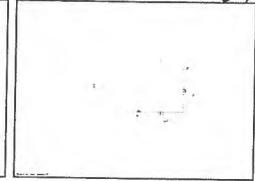
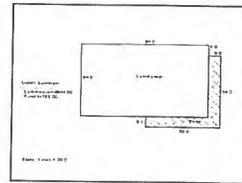
Photo

(click photo to enlarge)

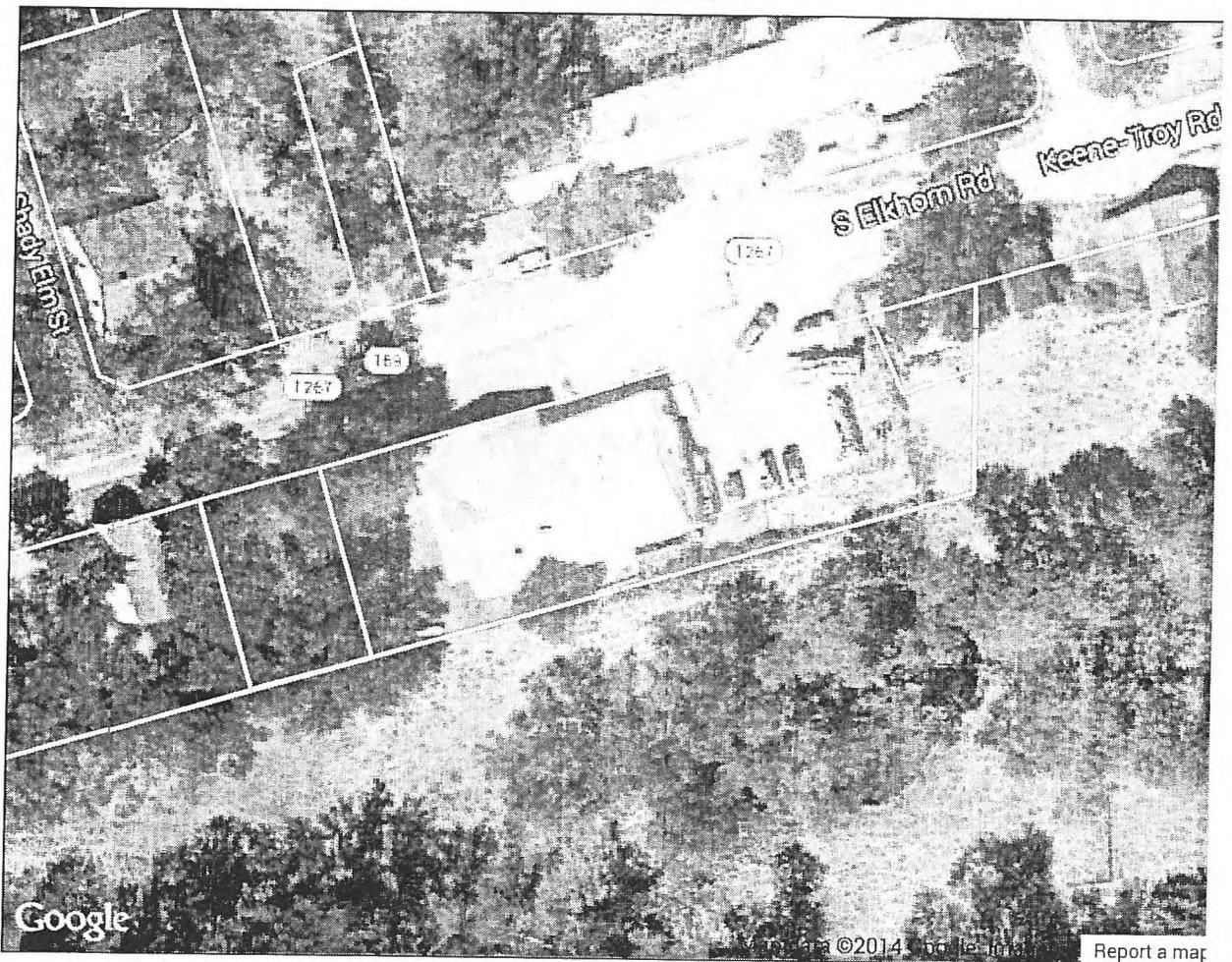


Sketch

(click sktech to enlarge)



GIS Map



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Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

KEENE TROY PIKE

Property Information

Owner: WILSON JAMES R JR
Mailing Address: P O BOX 157
KEENE KY 40339

Legal Description: Lot:
Block:
Unit:
Section:
DB/PG:PC/SL:

Subdivision:
Tax District: D at 0.918 / \$100 of assessed value
Parcel ID#: 020-30-03-011.00
Property Class: Commerical/Industiral
Lot Size: 260 X 150
Acreage:

Property Characteristics

Square Feet: 13718	Style: 2 STORY	Year Built: 1848
Bedrooms: 12	Full Bath: 4	Half Bath: 0
Basement: N/A	Bsmt Total Sq Ft:	Bsmt % Finished:
Exterior: WOOD	Garage/Carport:N	
HeatType: PROPANE	Central Air: N	
Fireplace: 5	Pool: N	

Assessment

Fair Cash Value Total: ~~96500~~
Homestead Exemption: 0\$
Disability Exemption: \$

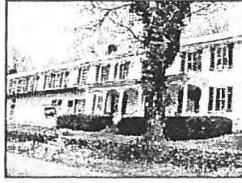
Taxable Assessment for 2013: ~~96500~~
Taxable Assessment for 2012: ~~96500~~

Sales History

No Sales History.

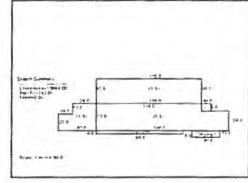
Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



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Map Report a map

ISO

101 Windward
~~Windward~~

$$A = 4620$$

28'

Resident

$$F = 1.0$$

$$O = (C-2) \quad 0.85$$

$$X = 0.15$$

$$P = 0$$

$$C = 18 F (A)^{.5}$$
$$18 (1.0) (4620)^{.5}$$
$$18 (1.0) (68)$$

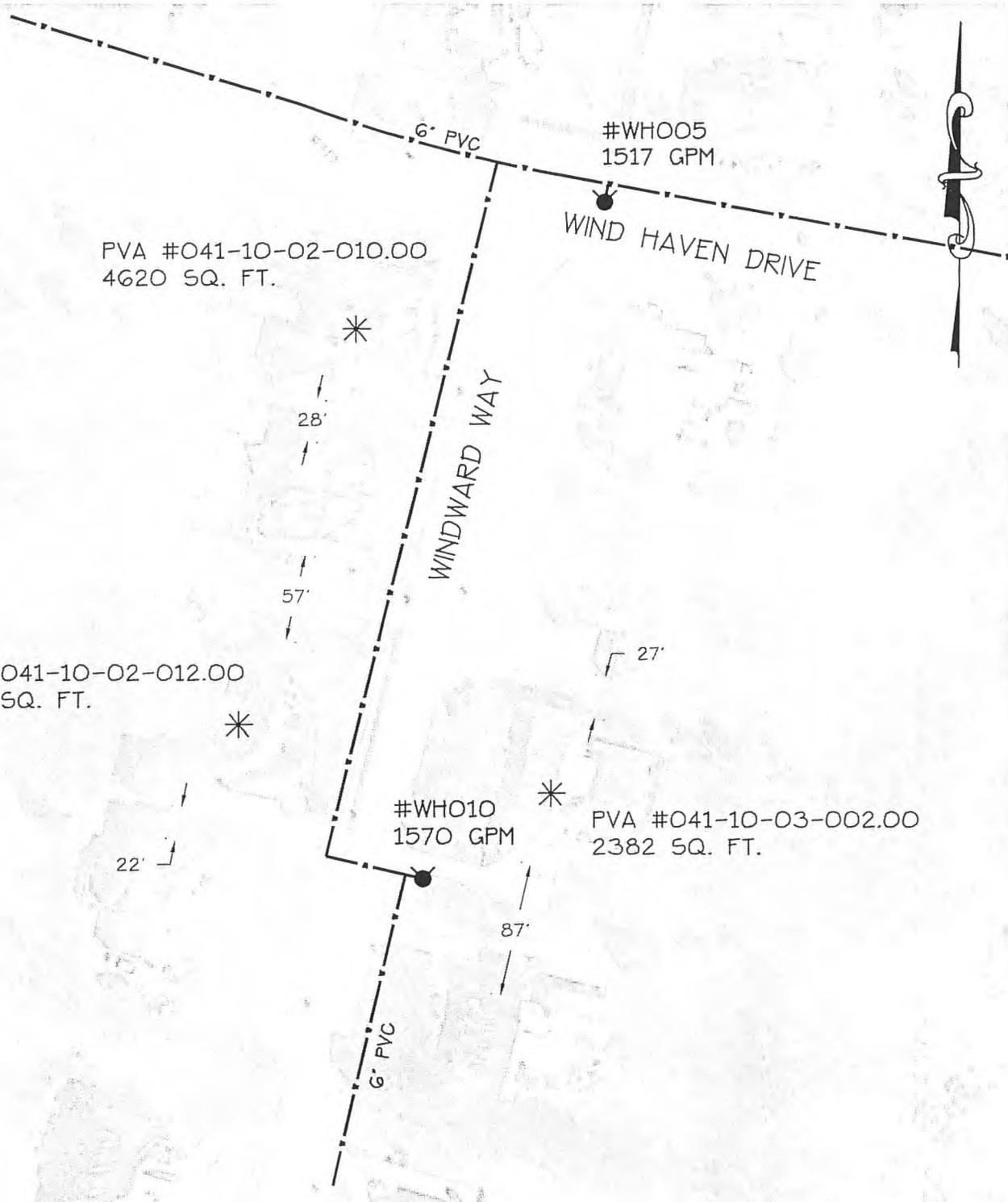
$$= 1223$$

$$NFF = (C)(O) [1.0 + (X+P)]$$

$$(1223)(0.85) [1.0 + (0.15+0)]$$

$$(1223)(0.85) [1.15]$$

$$1195 = \textcircled{1200} \times \textcircled{120} = \textcircled{144,000 \text{ gal}}$$



PVA #041-10-02-010.00
4620 SQ. FT.

#WH005
1517 GPM

WIND HAVEN DRIVE

WINDWARD WAY

PVA #041-10-02-012.00
2968 SQ. FT.

#WH010
1570 GPM

PVA #041-10-03-002.00
2382 SQ. FT.

AERIAL 7
WINDHAVEN
SUBDIVISION
(RESIDENTIAL)

SCALE: 1' = 100'

WIND HAVEN DRIVE AND
WINDWARD WAY

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

101 WINDWARD WAY

Property Information

Owner: SCHUSTER WAYNE C & CYNTHIA A
Mailing Address: 101 WINDWARD WAY
NICHOLASVILLE KY 403560000

Legal Description: Lot: 38
Block:
Unit:
Section:
DB/PG:370/365 PC/SL:

Subdivision: WIND HAVEN
Tax District: C at 1.016 / \$100 of assessed value
Parcel ID#: 041-10-02-010.00
Property Class: Residential
Lot Size: 117 X 313 IR
Acreage:

Property Characteristics

Square Feet:	4620	Style:	2 STORY	Year Built:	1997
Bedrooms:	3	Full Bath:	3	Half Bath:	1
Basement:	SUNKEN	Bsmt Total Sq Ft:	2218	Bsmt % Finished:	100
Exterior:	MAS VEN	Garage/Carport:	ATTCHD 2		
HeatType:	FORCAIR	Central Air:	Y		
Fireplace:	1	Pool:	Y		

Assessment

Fair Cash Value Total: ~~48~~80000
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 2013: ~~48~~80000
Taxable Assessment for 2012: ~~47~~75000

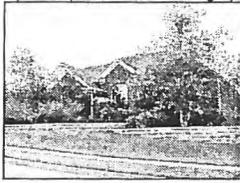
Sales History

Date: 08/04/1997 Price: \$344000 DB/PG:370/365
Buyer's Name: SCHUSTER WAYNE C & CYNTHIA A
Seller's Name: TAULBEE STEVE & CHARLANE

Date: 12/06/1996 Price: \$47900 DB/PG:360/266
Buyer's Name: TAULBEE STEVE & CHARLANE
Seller's Name: WHITE DON C

Photo

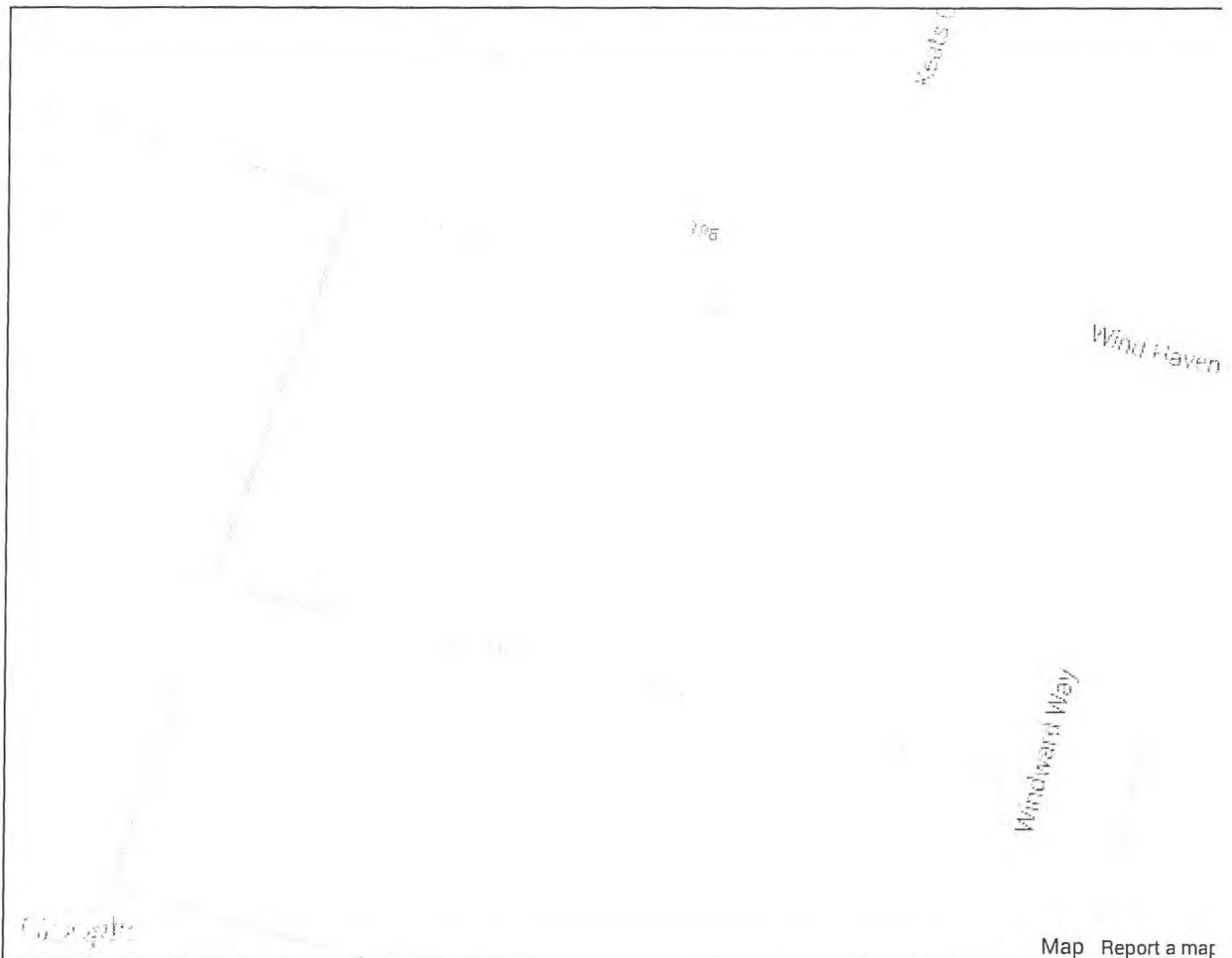
(click photo to enlarge)



Sketch

(click sktech to enlarge)

GIS Map



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CROSSWOOD PAVIST

101 BRANNON

CHURCH

$$F = 1.5 \quad A = 11,560$$

$$O = (C-2) \quad 0.85$$

$$X = 0.18$$

$$P = 0$$

$$C = 18 F (A)^{0.5}$$

$$18 (1.5) 11,560^{.5}$$

$$C = 18 (1.5) (107.5)$$

$$C = \cancel{2902.96} \quad 2903$$

$$NFF = (C)(O) [1.0 + (X+P)]$$

$$NFF = (2903)(0.85) [1.0 + (0.18+0)]$$

$$(2903)(0.85) [1.18]$$

$$= 2911.7 = \textcircled{3000}$$

14

$$G = \text{VOLUME} \div 100$$

$$G = (11,560 \times 30) \div 100$$

$$G = 3468 = 3500$$

$$3000 \times 180 = \textcircled{540,000}$$

Table 11.1

duration = 3 hrs
180m

$$3500 \times 180 = 630,000$$

AERIAL 6
CROSSW DS BAPTIST
CHURCH, INC

PVA #042-00-00-006.00

US 68 - HARRODSBURG ROAD



US 68
HARRODSBURG ROAD

12" PVC

11560 SQ. FT.

6" PVC

2652 SQ. FT.

BRANNON ROAD

4" PVC

NO # - LCM/
SAYS ~~NEEDED~~ WAS
WAS NO INFO
NEED HYD. INFO
JOHN TO CHECK
FOR #
GPM

SCALE: 1" = 60'

US 68 HARRODSBURG ROAD

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

101 BRANNON RD

Property Information

Owner: CROSSWOODS BAPTIST CHURCH INC
Mailing Address: 101 BRANNON RD
NICHOLASVILLE, KY 403560000

Legal Description: Lot:
Block:
Unit:
Section:
DB/PG: 171/191 PC/SL: 408/382

Subdivision: CROSSWOODS
Tax District: C at 1.016 / \$100 of assessed value
Parcel ID#: 042-00-00-006.00
Property Class: Tax Exempt
Lot Size:
Acreage: 11.30

Property Characteristics

Square Feet:	11560	Style:	1 STORY	Year Built:	1999
Bedrooms:		Full Bath:		Half Bath:	
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	MAS VEN	Garage/Carport:	N		
HeatType:	FORCAIR	Central Air:	Y		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: \$ 0
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 2013: \$ 0
Taxable Assessment for 2012: \$ 0

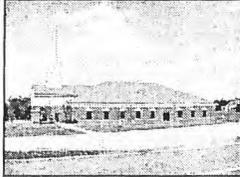
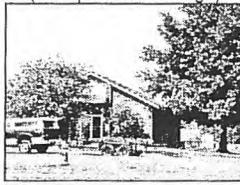
Sales History

Date: 04/30/2001 Price: \$ 113725 DB/PG: CM13/438
Buyer's Name: COMMONWEALTH OF KENTUCKY
Seller's Name: CROSSWOODS BAPTIST CHURCH INC

Date: 06/23/1999 Price: \$ 0 DB/PG: 408/382
Buyer's Name: CROSSWOODS BAPTIST CHURCH INC
Seller's Name: CROSSWOODS BAPTIST CHURCH

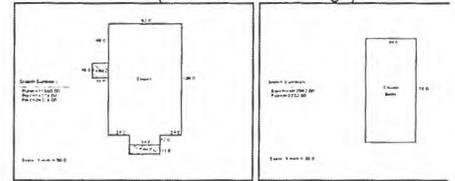
Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



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150

~~Forest Hills~~

- Res -

724 Chinkapin Dr

President

$$A = 3360$$

$$F = (C-2) 1.0$$

$$O = (C-2) 0.85$$

$$X = (0.10)$$

$$P = 0$$

$$\begin{aligned} C &= 18 F(A)^{.5} \\ &= 18 (1.0) (3360)^{.5} \\ &= 18 (1.0) (58) \\ &= 1043 \end{aligned}$$

$$NFF = (C)(O) [1.0 + (X+P)]$$

$$1043 (.85) [1.0 + (0.10+0)]$$

$$1043 (.85) [1.10]$$

$$= 975 = 1000 \times 120 = 120,000$$



PVA #043-00-00-001.17
3360 SQ. FT.

#FHO08
411 GPM

53'

41'

CHINKAPIN DRIVE

6" PVC

AERIAL 9 FOREST HILLS SUBDIVISION

SCALE: 1" = 100'

CHINKAPIN DRIVE

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

724 CHINKAPIN DR

Property Information

Owner: DAVIS THOMAS L & CARRIE A
Mailing Address: 724 CHINKAPIN
NICHOLASVILLE KY 40356

Legal Description: Lot: 17
Block:
Unit:
Section:
DB/PG:680/605 PC/SL:PC10/121

Subdivision: FOREST HILLS
Tax District: C at 1.016 / \$100 of assessed value
Parcel ID#: 043-00-00-001.17
Property Class: Residential
Lot Size:
Acreage:

Property Characteristics

Square Feet:	3360	Style:	1 STORY	Year Built:	2008
Bedrooms:	4	Full Bath:	4	Half Bath:	1
Basement:	WALKOUT	Bsmt Total Sq Ft:	3360	Bsmt % Finished:	0%
Exterior:	MAS/VEN	Garage/Carport:	ATTCHD 3		
HeatType:	ELECTRC	Central Air:	Y		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: ~~650000~~
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 2013: ~~50000~~
Taxable Assessment for 2012: ~~20000~~

Sales History

Date: 12/03/2012 Price: \$0 DB/PG:680/605
Buyer's Name: DAVIS THOMAS L & CARRIE A
Seller's Name: DISTINCTIVE CUSTOM HOMES LLC

Date: 01/16/2007 Price: \$175000 DB/PG:575/550
Buyer's Name: DISTINCTIVE CUSTOM HOMES LLC
Seller's Name: PAUL VANCE CONSTRUCTION INC

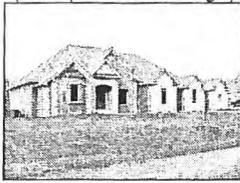
Date: 08/10/2006 Price: \$170000 DB/PG:567/289

Buyer's Name: PAUL VANCE CONSTRUCTION
INC
FOREST HILLS OF KENTUCKY
LLC

Seller's Name:

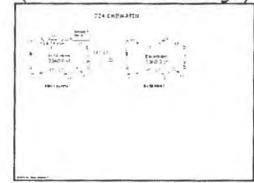
Photo

(click photo to enlarge)

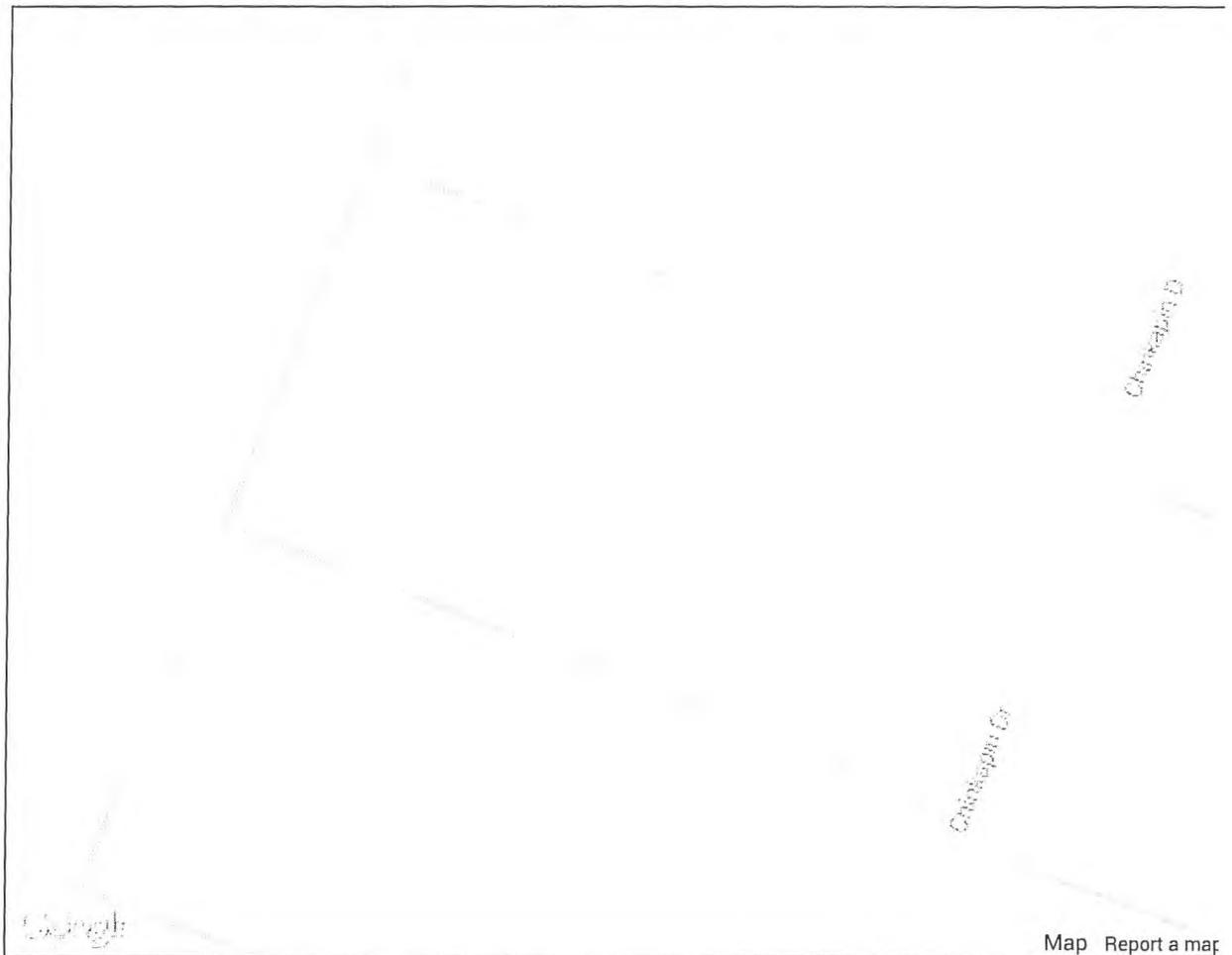


Sketch

(click sktech to enlarge)



GIS Map



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Hydrant: Number: FH008

Location: CHINKAPIN 150' NORTH OF RD END

Section or District: NW

Cross Street:

Main Size: 6

Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3 WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 52 psi

Pitot (Flow): 6 psi

Residual: 6 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 411

Potential GPM of this Water Main if taken to 6 psi residual: 411

Potential GPM of this Water Main if taken to 0 psi residual: 439

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

150

~~Ramsey Rinkham~~

$$A = \frac{4224}{\cancel{5124}}$$

Alvine hammer same
Stable

$$F = 1.5$$

$$O = (C-4) 1.15$$

$$X = 0$$

$$X = 0$$

$$C = 18(F)(A)^{.5}$$

$$18(1.5) \left(\frac{4224}{\cancel{5124}} \right)^{.5}$$

1754

$$(C)(O) [1.10 + (X+M)]$$

$$NFF = (1754) 1.15 (1)$$

2018

$$(2000) \times (120) = 240,000$$



4224
5124± SQ. FT.

#AHO07
1113 GPM

AERIAL 11
RAMSEY FARM

PVA #044-00-00-003.00

SCALE: 1" = 100'

1500' SOUTH OF RHINEHEIMER LANE
FARM ENTRANCE

Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

HARRODSBURG RD

Property Information

Owner: RAMSEY KENNETH LEE & SARAH
 Mailing Address: 6915 HARRODSBURG RD
 NICHOLASVILLE KY 40356

Legal Description: Lot:
 Block:
 Unit:
 Section:
 DB/PG:344/595 PC/SL:

Subdivision:
 Tax District: D at 0.918 / \$100 of assessed value
 Parcel ID#: 044-00-00-003.00
 Property Class: Farm
 Lot Size:
 Acreage:

Property Characteristics

Square Feet:	4500	Style:	1 STORY	Year Built:	
Bedrooms:		Full Bath:		Half Bath:	0
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	AL/VINL	Garage/Carport:	N		
HeatType:		Central Air:	N		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: 0\$
 Homestead Exemption: 0\$
 Disability Exemption: \$

Taxable Assessment for 2013: 0 \$
 Taxable Assessment for 2012: 1748334

Sales History

Date: 12/23/1995 Price: \$0 DB/PG:344/595
 Buyer's Name: RAMSEY KENNETH & SARAH KATHERN
 Seller's Name: RAMSEY FARM

Date: 10/07/1994 Price: \$3000000 DB/PG:327/380
 Buyer's Name: RAMSEY FARM INC
 Seller's Name: FIRST AMERICAN NATIONAL BANK

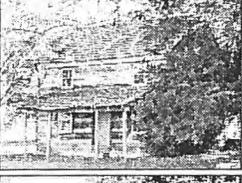
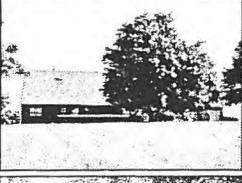
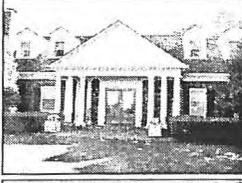
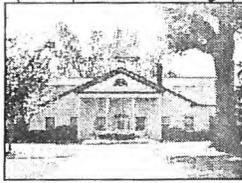
Date: 05/20/1994 Price: \$3500000 DB/PG:321/179

Buyer's Name: FIRST AMERICAN NATIONAL
BANK

Seller's Name: ALMAHURST FARM
DIVISION

Photo

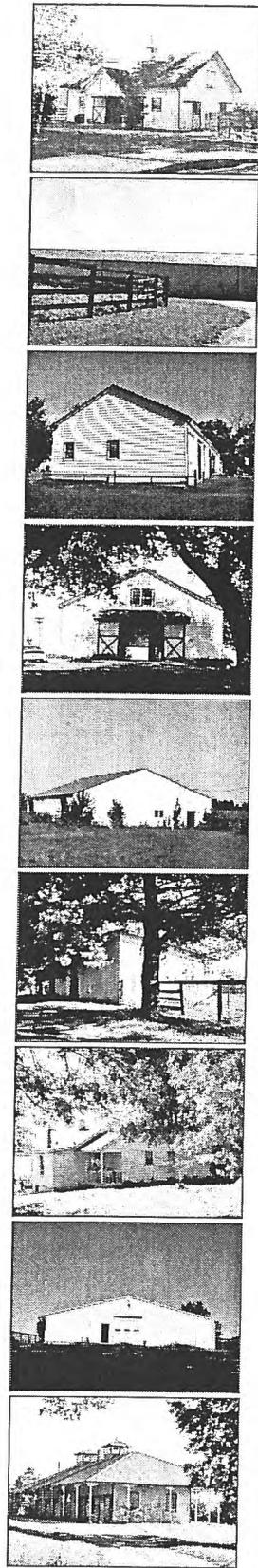
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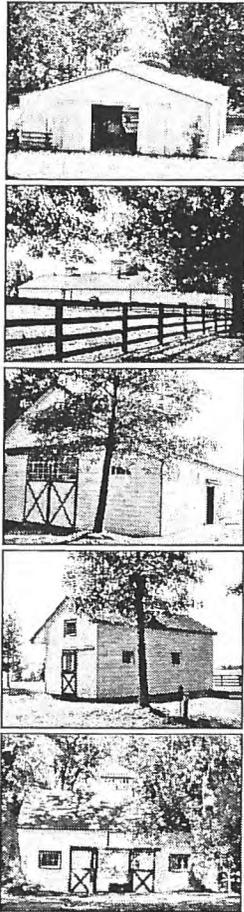


Sketch

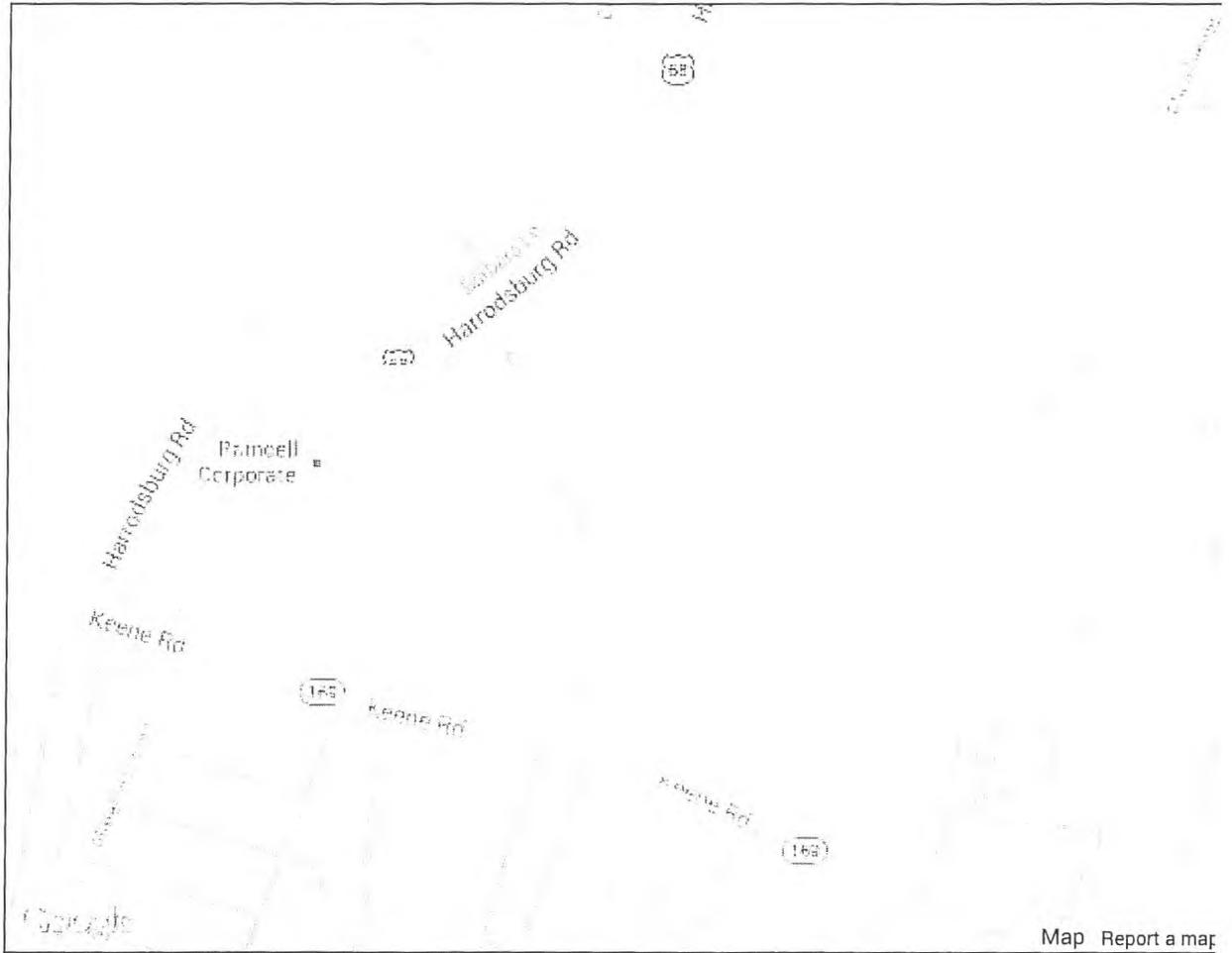
(click sktech to enlarge)







GIS Map



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150

$$A = 15,824$$

$$F = (C-2) 1.0$$

$$O = (C-4) 1.15$$

$$X = .06$$

$$P = 0$$

$$= 1 (F(A))^{.5}$$

$$18 (1.0) (15,824)^{.5}$$

$$18 (1.0) (126)$$

$$= 2264$$

$$NFF = (C)(O) [1.0 + (X+P)]$$

$$(2264)(1.15) [1.0 + (0.06 + 0)]$$

$$2760 = 2750 \times 120 = 330,000$$

124

$$G = \text{VOLUME} \div 100$$

$$15,824 (20) \div 100 = 3164 = 3250 \times 180$$

$$= 585,000$$

~~Ramsay Barman~~

~~-Farm-~~

Catcamp Hill Pike

Stable



15824 SQ. FT.

#AHO07
650 GPM

AERIAL 12
RAMSEY FARM

PVA #044-00-00-001.01

CATNIP HILL AND RHINEHEIMER LANE

SCALE: 1" = 100'

Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

HARRODSBURG RD

Property Information

Owner: RAMSEY KENNETH LEE & SARAH
 Mailing Address: 6915 HARRODSBURG RD
 NICHOLASVILLE KY 40356

Legal Description: Lot:
 Block:
 Unit:
 Section:
 DB/PG:344/595 PC/SL:

Subdivision:
 Tax District: D at 0.918 / \$100 of assessed value
 Parcel ID#: 044-00-00-001.01
 Property Class: Farm
 Lot Size:
 Acreage: 188.87

Property Characteristics

Square Feet:	1072	Style:	1 STORY	Year Built:	
Bedrooms:	2	Full Bath:	1	Half Bath:	0
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	AL/VINL	Garage/Carport:	ATTCHD1		
HeatType:		Central Air:	Y		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: ~~3208300~~
 Agricultural Value Total: ~~485902~~
 Homestead Exemption: \$
 Disability Exemption: \$

Taxable Assessment for 2013: ~~485902~~
 Taxable Assessment for 2012: \$

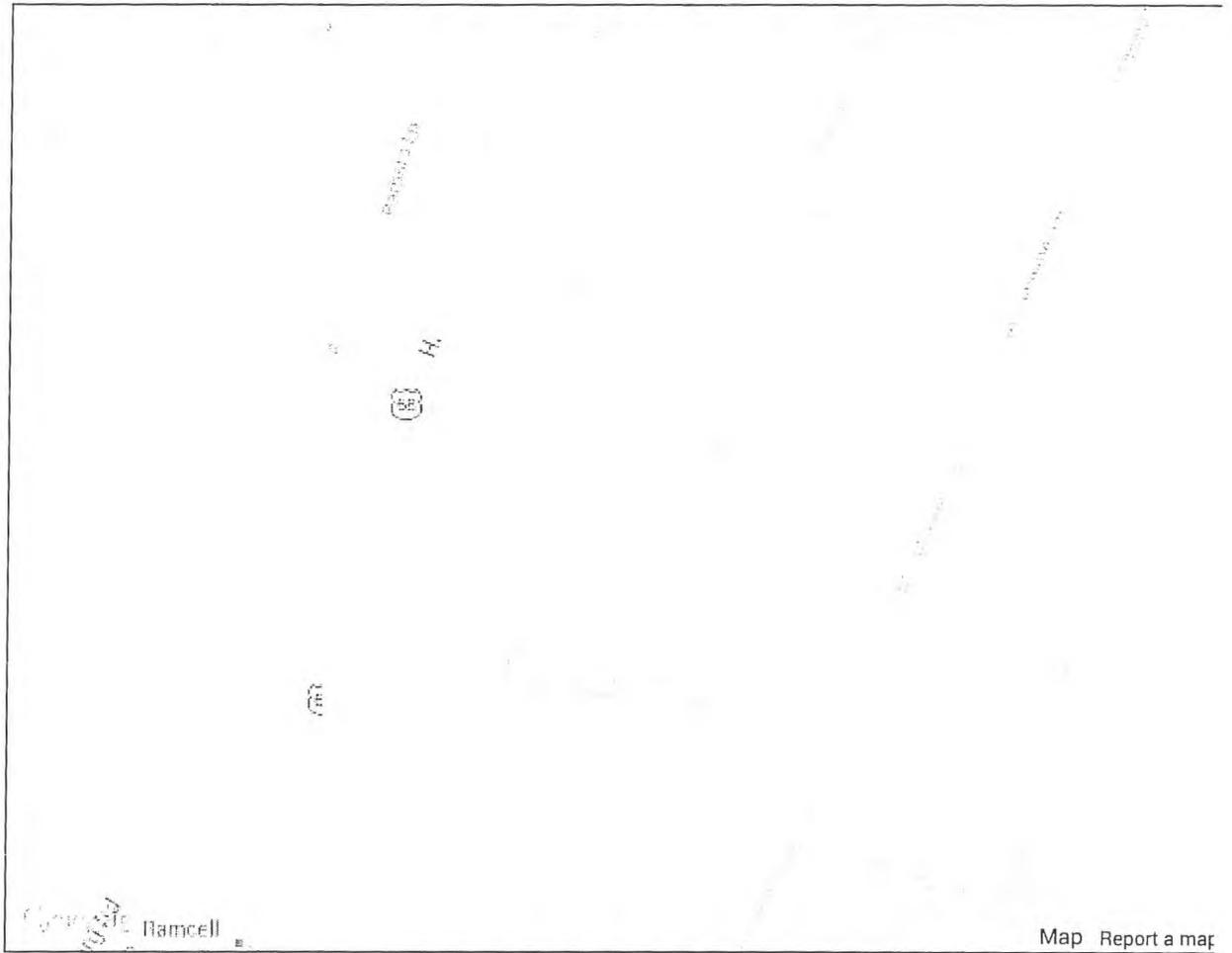
Sales History

Date:	12/29/1995	Price:	\$0	DB/PG:	344/595
Buyer's Name:	RAMSEY KENNETH & SARAH KATHERN				
Seller's Name:	RAMSEY FARM INC				
Date:	04/25/1995	Price:	\$1000000	DB/PG:	334/434
Buyer's Name:	RAMSEY FARM INC				
Seller's Name:	MUSKOKA INDUSTRIES INC				
Date:	02/14/1992	Price:	\$500000	DB/PG:	283/127

Buyer's Name: MUSKOKA INDUSTRIES
INC

Seller's Name: P J BAUGH
IND

GIS Map



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Hydrant: Number: AH004 Location: GR.DRV. 0.5 MILE OFF CATNIP H.
Section or District: NW Cross Street:
Main Size: 4 Barrel Size: 5.25 inches Mfg: MULLER
Nmbr Outlets: 3 Outlet Sizes: STANDARD 3-WAY
Self-Draining: Yes
Direction to Open: CCW ± Elevation: 0

Specs: Discharge Opening: 2.50 (inches) Co-Efficient (.70 thru .99): .90
Static: 80 psi Pitot (Flow): 15 psi Residual: 15 psi
Calculated GPM of Hydrant from a single 2.50 " discharge: 650
Potential GPM of this Water Main if taken to 15 psi residual: 650
Potential GPM of this Water Main if taken to 0 psi residual: 727
000

Remarks:

Special Instructions: STRIPPED THREADS

Global Positioning

Latitude: 00° 00' 00" N
Longitude: 000° 00' 00" W

$$A = \frac{150}{8000}$$

$$F = (C-2) 1.0$$

$$= (C-2) 0.85$$

$$X = 0$$

$$P = 0$$

$$\begin{aligned} C &= 18 F (A)^{.5} \\ &= 18 (1.0) (8000)^{.5} \\ &= 18 (1.0) (89) \\ &= 1609 \end{aligned}$$

$$NFF = (C)(0) [1.0 + (X+P)]$$

$$(1609)(0.85) [1 + 0]$$

$$1609 (.85) [1.0]$$

$$= 1365 =$$

$$\textcircled{1500}$$

$$\textcircled{X 170}$$

$$\textcircled{180,000}$$

Champions-

56 Avenue Champions S.

Resident



PVA #030-10-02-007.00
8000 SQ. FT.



112'

6" PVC 275'

AVENUE OF CHAMPIONS

350'

#C5008
650 GPM

290'

6" PVC

PVA #030-10-03-020.00
3574 SQ. FT.



AERIAL 3 CHAMPIONS SUBDIVISION

SCALE: 1" = 100'

DELANEYS FERRY ROAD



PVA #030-10-02-007.00
8000 SQ. FT.



112'

6" PVC 275'

AVENUE OF CHAMPIONS

350'

#C5008
650 GPM

290'



6" PVC

PVA #030-10-03-020.00
3574 SQ. FT.

AERIAL 3 CHAMPIONS SUBDIVISION

030-10-02-007.00
DELANEYS FERRY ROAD

SCALE: 1' = 100'

Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

56 AVENUE OF CHAMPIONS

Property Information

Owner: PULLIAM ROYCE G & TOMI A
 Mailing Address: 56 AVENUE OF CHAMPIONS
 NICHOLASVILLE KY 40356

Legal Description: Lot: 62
 Block:
 Unit:
 Section:
 DB/PG:PC3/128 PC/SL: 594/76

Subdivision: CHAMPIONS
 Tax District: C at 1.016 / \$100 of assessed value
 Parcel ID#: 030-10-02-007.00
 Property Class: Residential
 Lot Size:
 Acreage:

Property Characteristics

Square Feet:	8000	Style:	2 STORY	Year Built:	1993
Bedrooms:	3	Full Bath:	7	Half Bath:	1
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	N/A
Exterior:	MAS VEN	Garage/Carport:	ATTCHD 3		
HeatType:	FORCAIR	Central Air:	y		
Fireplace:	4	Pool:	N		

Assessment

Fair Cash Value Total: ~~295~~50000
 Homestead Exemption: 0\$
 Disability Exemption: \$

Taxable Assessment for 2013: ~~295~~50000
 Taxable Assessment for 2012: ~~295~~50000

Sales History

Date:	11/30/2007	Price:	\$1800000	DB/PG:	594/76
Buyer's Name:	PULLIAM ROYCE G & TOMI A				
Seller's Name:	FIFTH THIRD BANK				
Date:	12/29/2004	Price:	\$1950000	DB/PG:	530/694
Buyer's Name:	WHETSTONE L ERIC & ILONA				
Seller's Name:	GRAHAM MERRY C				
Date:	08/18/2000	Price:	\$0	DB/PG:	434/133

Buyer's Name: GRAHAM MERRY
C

Seller's Name: GRAHAM JACK
W

Date:

08/18/2000 Price: 0
\$

DB/PG:434/130

Buyer's Name: GRAHAM JACK
W

Seller's Name: GRAHAM JACK W
TRUSTEE

Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



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~~First~~

Fig 5-1

~~Fig~~ Table 5-1

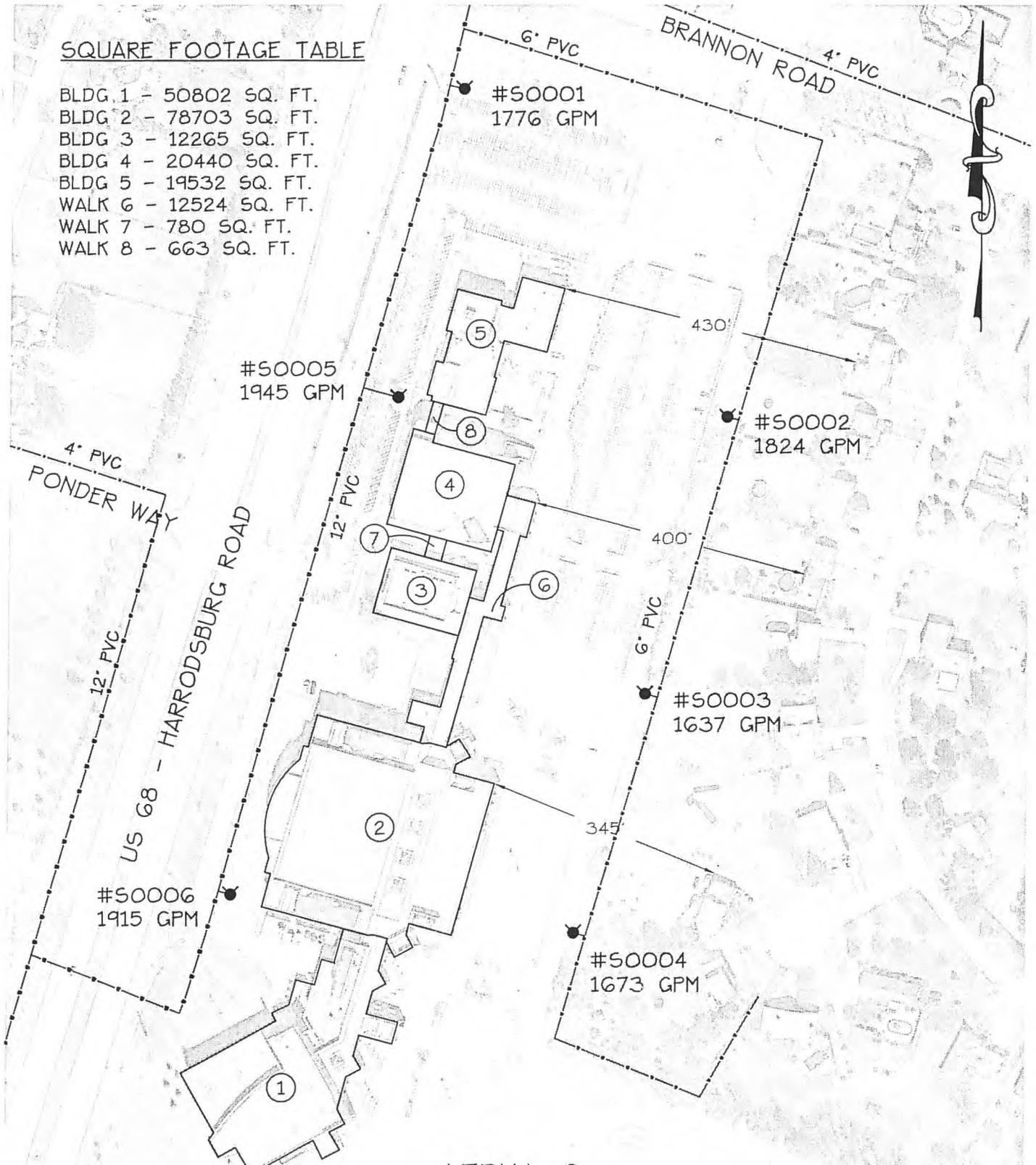
Some Calc as Krozes

63,000

~~62,100~~

SQUARE FOOTAGE TABLE

BLDG 1	-	50802 SQ. FT.
BLDG 2	-	78703 SQ. FT.
BLDG 3	-	12265 SQ. FT.
BLDG 4	-	20440 SQ. FT.
BLDG 5	-	19532 SQ. FT.
WALK 6	-	12524 SQ. FT.
WALK 7	-	780 SQ. FT.
WALK 8	-	663 SQ. FT.



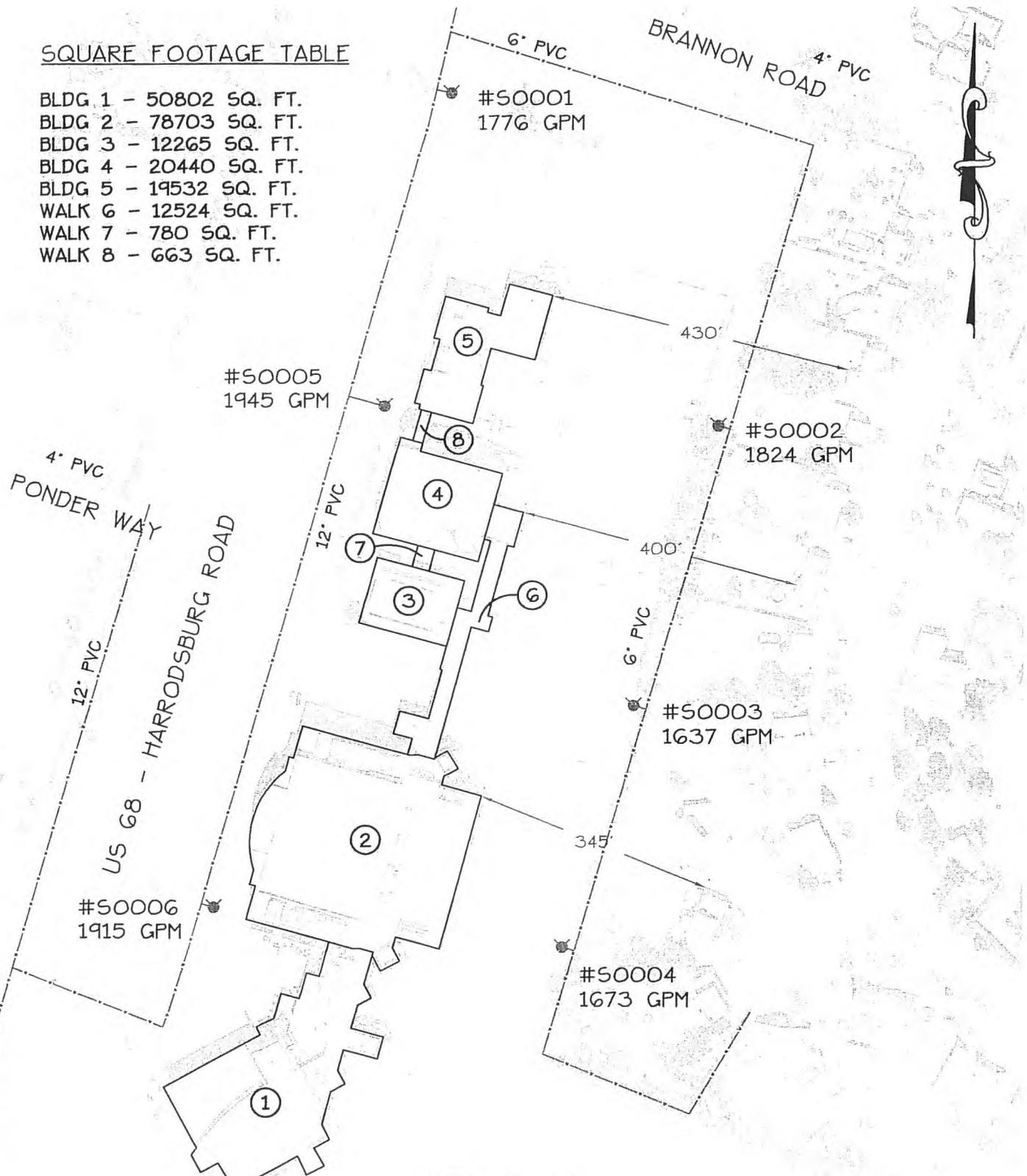
AERIAL 2
SOUTHLAND CHRISTIAN
CHURCH

PVA #042-00-00-007.00
US 68 - HARRODSBURG ROAD

SCALE: 1" = 200'

SQUARE FOOTAGE TABLE

- BLDG 1 - 50802 SQ. FT.
- BLDG 2 - 78703 SQ. FT.
- BLDG 3 - 12265 SQ. FT.
- BLDG 4 - 20440 SQ. FT.
- BLDG 5 - 19532 SQ. FT.
- WALK 6 - 12524 SQ. FT.
- WALK 7 - 780 SQ. FT.
- WALK 8 - 663 SQ. FT.



AERIAL 2
**SOUTHLAND CHRISTIAN
 CHURCH**

PVA #042-00-00-007.00

US 68 - HARRODSBURG ROAD

SCALE: 1" = 200'

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

5075 HARRODSBURG

Property Information

Owner: SOUTHLAND CHRISTIAN CHURCH
Mailing Address: 5001 HARRODSBURG RD
NICHOLASVILLE, KY 403561750

Legal Description: Lot:
Block:
Unit:
Section:
DB/PG:133/324 PC/SL:290/465

Subdivision:
Tax District: C at 1.016 / \$100 of assessed value
Parcel ID#: 042-00-00-007.00
Property Class: Tax Exempt
Lot Size:
Acreage:

Property Characteristics

Square Feet:	3360	Style:	1 STORY	Year Built:	
Bedrooms:	5	Full Bath:	0	Half Bath:	0
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	C BLOCK	Garage/Carport:	N		
HeatType:		Central Air:	N		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: 0\$
Homestead Exemption: 0\$
Disability Exemption: \$

Taxable Assessment for 2013: 0 \$
Taxable Assessment for 2012: 0 \$

Sales History

Date: 10/25/1999 Price: \$0 DB/PG:416/106
Buyer's Name: COMMONWEALTH OF KENTUCKY
Seller's Name: SOUTHLAND CHRISTIAN CHURCH

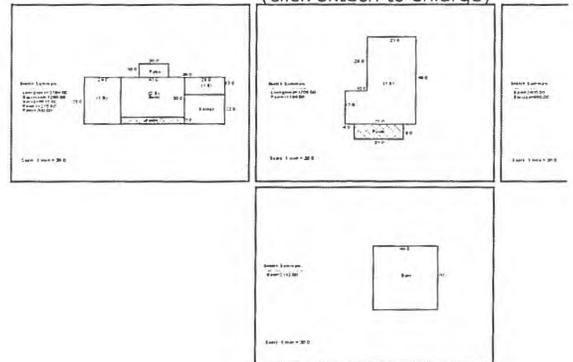
Photo

(click photo to enlarge)



Sketch

(click sketch to enlarge)



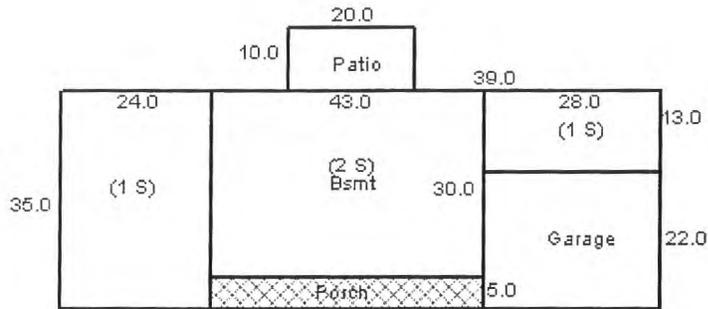
GIS Map



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Sketch Summary

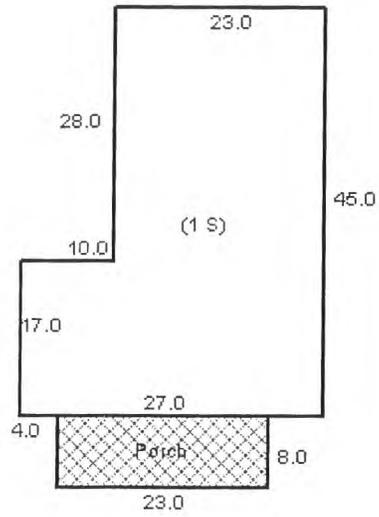
LivingArea=3784.00
Basement=1290.00
Garage=616.00
Porch1=215.00
Patio=200.00



Scale: 1 inch = 30.0

Sketch Summary

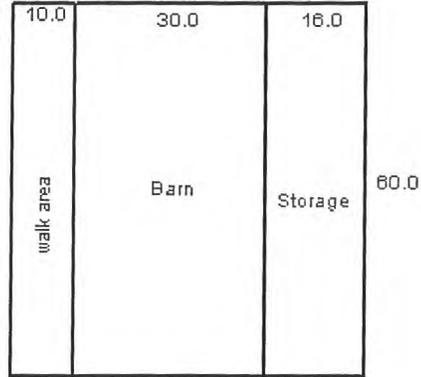
LivingArea=1205.00
Porch1=184.00



Scale: 1 inch = 20.0

Sketch Summary

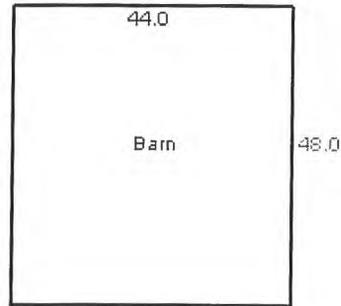
Barn=2400.00
Storage=960.00



Scale: 1 inch = 30.0

Sketch Summary

Barn=2112.00



Scale: 1 inch = 30.0

Hydrant: Number: SO001

Location: SOUTHLAND NW COR. P-LOT

Section or District: NW

Cross Street:

Main Size: 12

Barrel Size: 5.25 inches

Mfg: MUELLER

Nmbr Outlets: 2

Outlet Sizes: 2-WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 78 psi

Pitot (Flow): 49 psi

Residual: 51 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 1,175

Potential GPM of this Water Main if taken to 20 psi residual: 1,776

Potential GPM of this Water Main if taken to 0 psi residual: 2,083

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

Hydrant: Number: SO003

Location: SOUTHLAND P-LOT EAST SIDE

Section or District: NW

Cross Street:

Main Size: 6

Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3-WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 67 psi

Pitot (Flow): 44 psi

Residual: 44 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 1,113

Potential GPM of this Water Main if taken to 20 psi residual: 1,637

Potential GPM of this Water Main if taken to 0 psi residual: 1,982

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

Hydrant: Number: SO006

Location: SOUTHLAND P-LOT SW CORNER

Section or District: NW

Cross Street:

Main Size: 12

Barrel Size: 5.25 inches

Mfg: MUELLER

Nmbr Outlets: 2

Outlet Sizes: 2-WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 71 psi

Pitot (Flow): 50 psi

Residual: 50 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 1,186

Potential GPM of this Water Main if taken to 20 psi residual: 1,915

Potential GPM of this Water Main if taken to 0 psi residual: 2,289

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N

Longitude: 000° 00' 00" W

Amount

M 31

Bellemeir Plaza

Table Fig 5-1

$$4000 \text{ SF} @ .1 \text{ gpm/ft}^2 + 10\% = 440 \text{ gpm}$$

Table 5-1

~~Duration =~~

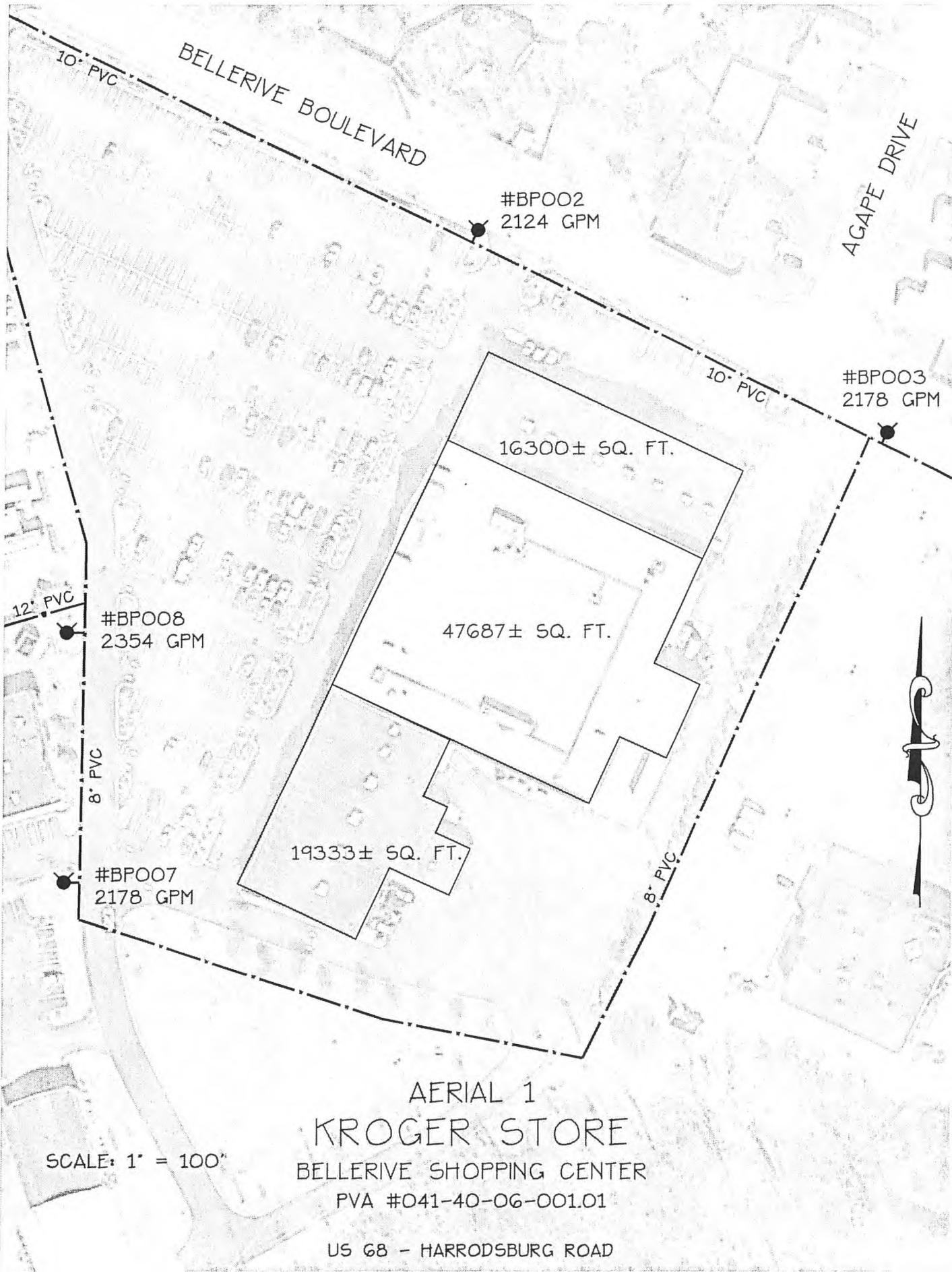
$$\text{Hose Stream} = 250 \text{ gpm}$$

$$\text{Duration} \quad 90 \text{ min}$$

$$\text{NFF} = (\text{Sprinkler} + \text{Hose Stream}) \text{ Duration}$$

$$\begin{matrix} 690 = 700 \\ (440 \text{ gpm} + 250 \text{ gpm}) \quad 90 \text{ min} \end{matrix}$$

$$= \begin{matrix} 631000 \\ \cancel{621000} \end{matrix} \text{ gal}$$



Q:\SCCESWORK\WC...re flow Aerial Exhibits.dwg, 2/14/2014 8:40:45 AM

SCALE: 1" = 100'

AERIAL 1
KROGER STORE
BELLERIVE SHOPPING CENTER
PVA #041-40-06-001.01
US 68 - HARRODSBURG ROAD



10" PVC

BELLERIVE BOULEVARD

AGAPE DRIVE

#BPOO2
2124 GPM

#BPOO3
2178 GPM

10" PVC

16300± SQ. FT.

47687± SQ. FT.

12" PVC

#BPOO8
2354 GPM

8" PVC

#BPOO7
2178 GPM

19333± SQ. FT.

8" PVC



AERIAL 1

KROGER STORE

BELLERIVE SHOPPING CENTER

PVA #041-40-06-001.01

US 68 - HARRODSBURG ROAD

SCALE: 1" = 100'

Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

130 BELLERIVE BLVD

Property Information

Owner: INLAND AMERICAN LEXINGTON BELLERIVE LLC
Mailing Address: P O BOX 9271
OAK BROOK IL 60523

Legal Description: Lot: 1A
Block:
Unit:
Section:
DB/PG:500/259 PC/SL:

Subdivision: BELLERIVE PLAZA
Tax District: C at 1.016 / \$100 of assessed value
Parcel ID#: 041-40-06-001.01
Property Class: Commerical/Industiral
Lot Size:
Acreage:

Property Characteristics

Square Feet:	2400	Style:	1 STORY	Year Built:	1999
Bedrooms:	0	Full Bath:	0	Half Bath:	3
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	MAS VEN	Garage/Carport:	N		
HeatType:	FORCAIR	Central Air:	Y		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: \$
Homestead Exemption: \$
Disability Exemption: \$

Taxable Assessment for 20130 \$
Taxable Assessment for 20124500000

Sales History

Date: 04/23/2007 Price: \$10210885 DB/PG:580/634
Buyer's Name: INLAND AMERICAN LEXINGTON BELLERIVE L L C
Seller's Name: SOUTHEAST U S RETAIL FUND LP
Date: 08/28/2003 Price: \$7510000 DB/PG:500/259
Buyer's Name: SOUTHEAST U S RETAIL FUND L P
Seller's Name: CROSSWOODS CENTER % SOUTH EAST RETAIL FD

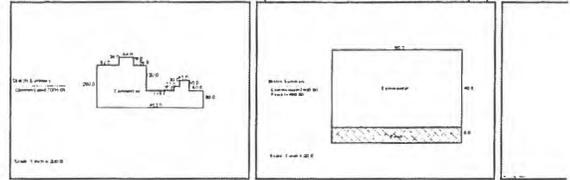
Photo

(click photo to enlarge)

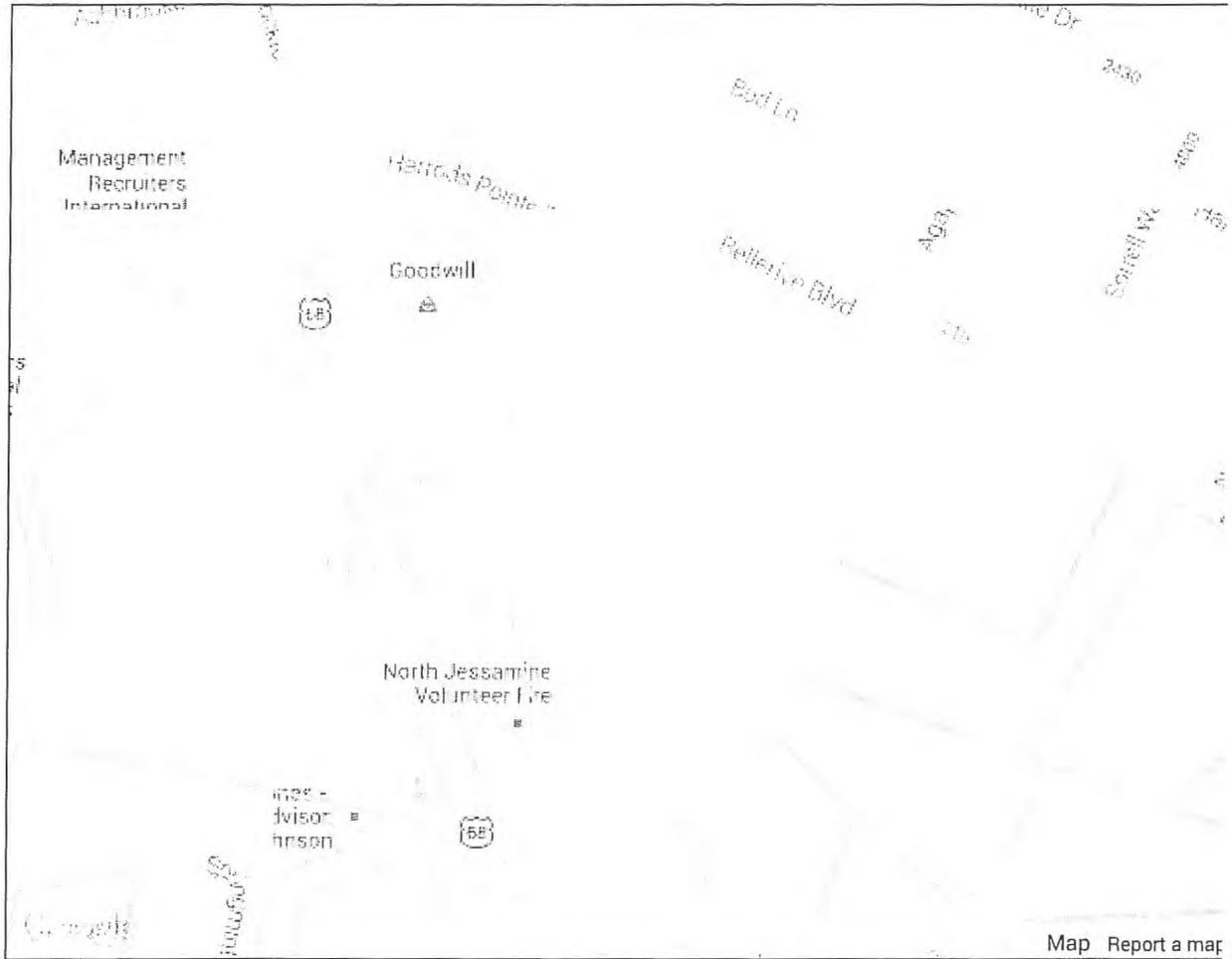


Sketch

(click sktech to enlarge)



GIS Map

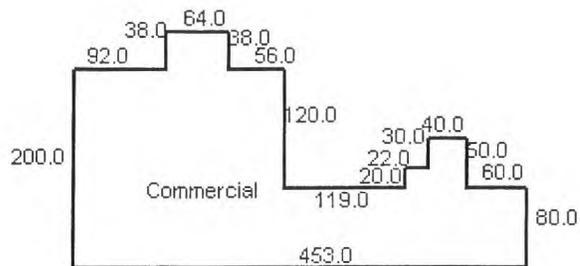


Map Report a map

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Sketch Summary

Commercial=67005.01



Scale: 1 inch = 200.0

Hydrant: Number: BP002

Location: BELLERIVE B. @ SHOP. CTR. ENT

Section or District: NW

Cross Street:

Main Size:

Barrel Size: 5.25 inches Mfg: MUELLER

Nmbr Outlets: 3

Outlet Sizes: STANDARD 3 - WAY

Self-Draining: Yes

Direction to Open: CCW

± Elevation: 0

Specs: Discharge Opening: 2.50 (inches)

Co-Efficient (.70 thru .99): .90

Static: 87 psi

Pitot (Flow): 60 psi

Residual: 60 psi

Calculated GPM of Hydrant from a single 2.50 " discharge: 1,300

Potential GPM of this Water Main if taken to 20 psi residual: 2,124

Potential GPM of this Water Main if taken to 0 psi residual: 2,445

000

Remarks:

Special Instructions:

Global Positioning

Latitude: 00° 00' 00" N
Longitude: 000° 00' 00" W

Table 1-6

①

11-30 Separation

1000 gpm

Table 1-1

②

2500 gpm <

2 hrs.

$$\therefore 1000 \times 120 = 120,000 \text{ gal}$$



PVA #022-40-00-003.00
1025 SQ. FT.



20'



17'

BRUNER LANE

#BLOO1
411 GPM

4" PVC

13'

13'

PVA #022-40-00-008.00
1125 SQ. FT.



PVA #022-40-00-011.00
1125 SQ. FT.

19'

40'

4" PVC

US 68 - HARRODSBURG ROAD

AERIAL 5 BRUNER SUBDIVISION

SCALE: 1" = 60'

US 68 - HARRODSBURG ROAD



PVA #022-40-00-003.00 *
1025 SQ. FT.

* PVA #022-40-00-008.00
1125 SQ. FT.

#BLOO1
411 GPM

BRUNER LANE

4" PVC

* PVA #022-40-00-011.00
1125 SQ. FT.

4" PVC

US 68 - HARRODSBURG ROAD

AERIAL 5 BRUNER SUBDIVISION

SCALE: 1" = 60'

US 68 - HARRODSBURG ROAD

Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

104 BRUNER LN

Property Information

Owner: COLLINS CHARLES V & ALICE
 Mailing Address: 1601 WILMORE RD
 NICHOLASVILLE KY 40356

Legal Description: Lot: 11
 Block:
 Unit:
 Section:
 DB/PG:CM15/240 PC/SL:PC6/40-B

Subdivision: ARMSTER BRUNER
 Tax District: D at 0.918 / \$100 of assessed value
 Parcel ID#: 022-40-00-011.00
 Property Class: Residential
 Lot Size: 60 X 98
 Acreage:

Property Characteristics

Square Feet:	1125	Style:	1 STORY	Year Built:	
Bedrooms:	3	Full Bath:	2	Half Bath:	0
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	MAS VEN	Garage/Carport:			
HeatType:	ELECTRC	Central Air:	N		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: ~~85000~~ \$5000
 Homestead Exemption: 0\$
 Disability Exemption: \$

Taxable Assessment for 2013: ~~85000~~ \$5000
 Taxable Assessment for 2012: ~~85000~~ \$5000

Sales History

Date: 11/23/2004 Price: \$58500 DB/PG:CM15/240
 Buyer's Name: COLLINS CHARLES V & ALICE
 Seller's Name: MORGAN CLARENCE W & CHARLENE K

Date: 07/16/2001 Price: \$84000 DB/PG:452/396
 Buyer's Name: MORGAN CLARENCE W & CHARLENE K
 Seller's Name: GAINNEY DANNY & HOLLY

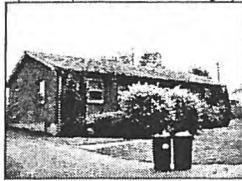
Date: 08/29/1995 Price: \$0 DB/PG:339/521

Buyer's Name: GAINY DANNY &
HOLLY

Seller's Name: BRUNER ARMSTER JR &
BETTY

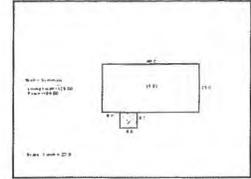
Photo

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Sketch

(click sktech to enlarge)



GIS Map



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Jessamine County, Kentucky
 Property Valuation Administrator
 Brad Freeman



Property Search Display

105 BRUNER LN

Property Information

Owner: KIDWELL LESTER & JEWELL
 Mailing Address: 105 BRUNER LN
 WILMORE, KY 403909725

Legal Description: Lot: 3
 Block:
 Unit:
 Section:
 DB/PG:166/570 PC/SL:PC6/40-B

Subdivision: ARMSTER BRUNER
 Tax District: D at 0.918 / \$100 of assessed value
 Parcel ID#: 022-40-00-003.00
 Property Class: Residential
 Lot Size: 60 X 150
 Acreage:

Property Characteristics

Square Feet:	1025	Style:	1 STORY	Year Built:	
Bedrooms:	3	Full Bath:	1	Half Bath:	0
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	AL/VINL	Garage/Carport:			
HeatType:	ELECTRC	Central Air:	N		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: ~~70000~~
 Homestead Exemption: ~~0~~\$36000
 Disability Exemption: \$

Taxable Assessment for 2013: ~~34000~~
 Taxable Assessment for 2012: ~~51000~~

Sales History

No Sales History.

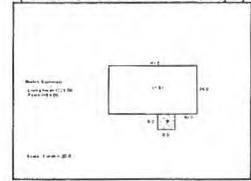
Photo

(click photo to enlarge)



Sketch

(click sktech to enlarge)



GIS Map



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Jessamine County, Kentucky
Property Valuation Administrator
Brad Freeman



Property Search Display

110 BRUNER LN

Property Information

Owner: COLLINS C V & ALICE F
Mailing Address: 1601 WILMORE RD
NICHOLASVILLE KY 40356

Legal Description: Lot: 8
Block:
Unit:
Section:
DB/PG:610/147 PC/SL:PC6/58

Subdivision: ARMSTER BRUNER
Tax District: D at 0.918 / \$100 of assessed value
Parcel ID#: 022-40-00-008.00
Property Class: Residential
Lot Size: 60 X 96
Acreage:

Property Characteristics

Square Feet:	1125	Style:	1 STORY	Year Built:	
Bedrooms:	3	Full Bath:	2	Half Bath:	0
Basement:	N/A	Bsmt Total Sq Ft:		Bsmt % Finished:	
Exterior:	MAS VEN	Garage/Carport:			
HeatType:	FORA/PRO	Central Air:	N		
Fireplace:	0	Pool:	N		

Assessment

Fair Cash Value Total: ~~70000~~
Homestead Exemption: 0\$
Disability Exemption: \$

Taxable Assessment for 2013: ~~70000~~
Taxable Assessment for 2012: ~~54000~~

Sales History

Date:	10/03/2008	Price:	\$54000	DB/PG:	610/147
Buyer's Name:	COLLINS C V & ALICE F				
Seller's Name:	FEDERAL NATIONAL MORTGAGE ASSOC				
Date:	03/18/2008	Price:	\$71965	DB/PG:	CM17/298
Buyer's Name:	FEDERAL NATIONAL MORTGAGE ASSN				
Seller's Name:	POWELL JUSTIN				
Date:	06/27/2005	Price:	\$82400	DB/PG:	542/128

Buyer's Name: POWELL JUSTIN
Seller's Name: PORTER AARON & TAMARA
Date: 10/01/2004 Price: \$55200 DB/PG:525/575
Buyer's Name: PORTER AARON & TAMARA
Seller's Name: BANK OF NEW YORK
Date: 05/10/1994 Price: \$54000 DB/PG:320/413
Buyer's Name: AKERS LESTON WADE & NINA
Seller's Name: HUMPHREYS TRAUOGOTT T
Date: 07/29/1992 Price: \$47000 DB/PG:290/380
Buyer's Name: HUMPHREYS TRAUOGOTT
Seller's Name: FERN FRED K & LENA RAE

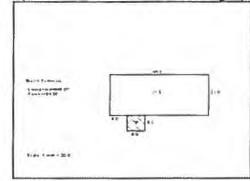
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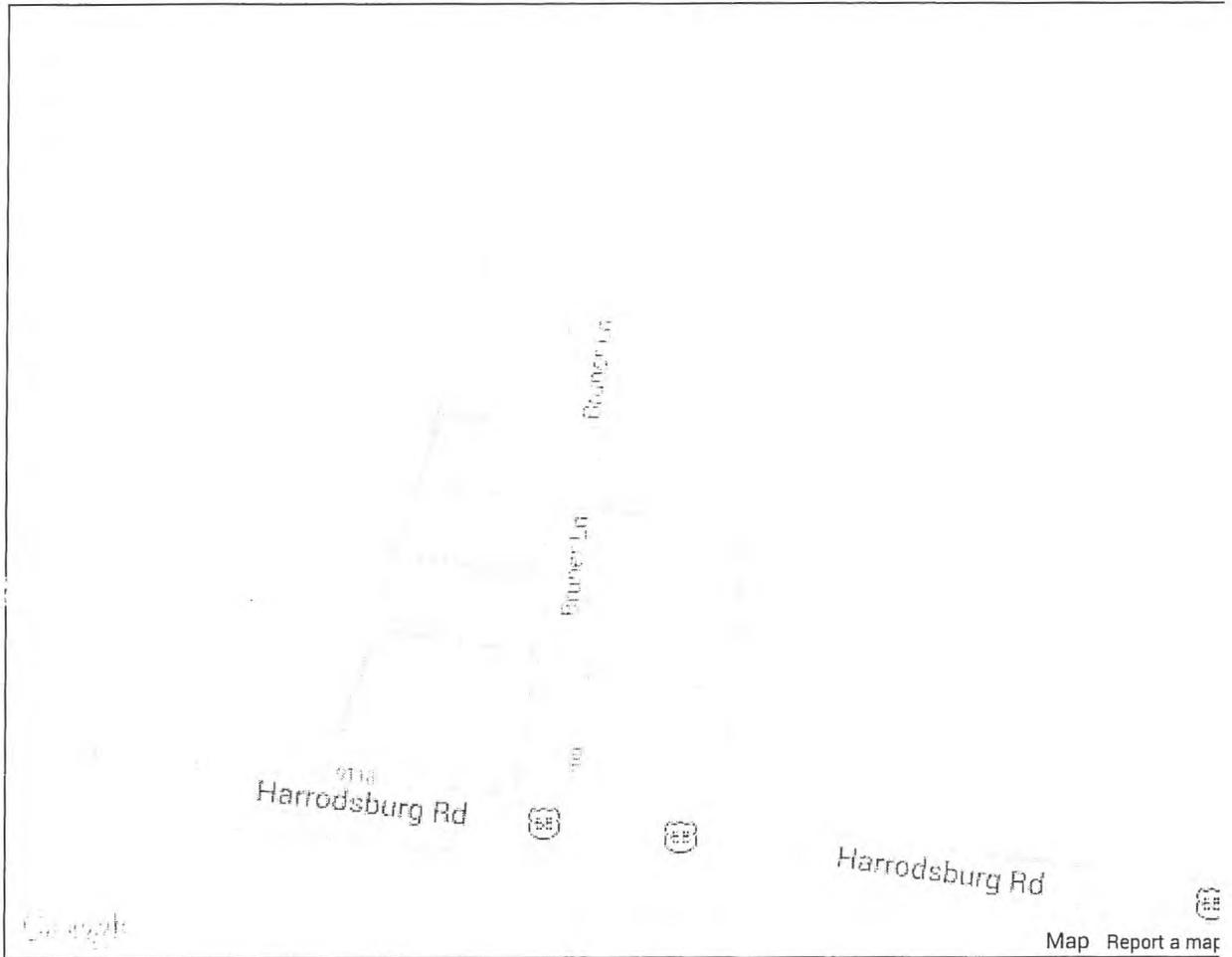


Sketch

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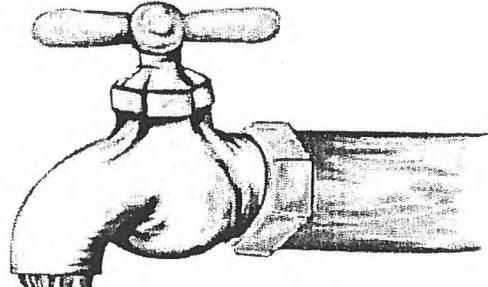


GIS Map



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2012 Edition



Recommended Standards for Water Works

**Great Lakes – Upper Mississippi River Board of State and
Provincial Public Health and Environmental Managers**

Illinois Indiana Iowa Michigan Minnesota Missouri
New York Ohio Ontario Pennsylvania Wisconsin

- d. unusual occurrences;
- e. current percent of unaccounted water for the system and the estimated reduction of unaccounted for water after project completion if applicable, i.e., project is to replace aged water mains, leaking storage, or other improvements that will result in reduced water loss.

1.1.6 Flow requirements,

Including:

- a. hydraulic analyses based on flow demands and pressure requirements (See Section 8.2.1)
- b. fire flows, when fire protection is provided, meeting the recommendations of the Insurance Services Office or other similar agency for the service area involved.

1.1.7 Sources of water supply

Describe the proposed source or sources of water supply to be developed, the reasons for their selection, and provide information as follows:

1.1.7.1 Surface water sources,

Including:

- a. hydrological data, stream flow and weather records;
- b. safe yield, including all factors that may affect it;
- c. maximum flood flow, together with approval for safety features of the spillway and dam from the appropriate reviewing authority;
- d. description of the watershed, noting any existing or potential sources of contamination (such as highways, railroads, chemical facilities, land/water use activities, etc.) which may affect water quality;
- e. summarized quality of the raw water with special reference to fluctuations in quality, changing meteorological conditions, etc.;
- f. source water protection issues or measures, including erosion and siltation control structures, that need to be considered or implemented.

1.1.7.2 Groundwater sources,

Including:

- a. sites considered;
- b. advantages of the site selected;
- c. elevations with respect to surroundings;
- d. probable character of formations through which the source is to be developed;
- e. geologic conditions affecting the site, such as anticipated interference between proposed and existing wells;
- f. summary of source exploration, test well depth, and method of construction; placement

- a. all confined rooms, compartments, pits and other enclosures below ground floor;
- b. any area where unsafe atmosphere may develop or where excessive heat may be built up.

6.2.6 Dehumidification

Dehumidification shall be provided in areas where excess moisture could cause hazards for operator safety, or damage to equipment.

6.2.7 Lighting

Pump stations shall be adequately lighted throughout to deter vandalism and facilitate maintenance. All electrical work shall conform to the requirements of the National Electrical Code or to relevant state and/or local codes.

6.2.8 Sanitary and other conveniences

All pumping stations that are manned for extended periods should be provided with potable water, lavatory and toilet facilities as allowed by state and /or local codes. Plumbing must be so installed as to prevent contamination of a public water supply. Wastes shall be discharged in accordance with Part 9.

6.3 PUMPS

At least two pumping units shall be provided. With any pump out of service, the remaining pump or pumps shall be capable of providing the maximum pumping demand of the system. The pumping units shall:

- a. have ample capacity to supply the peak demand against the required distribution system pressure without dangerous overloading;
- b. be driven by prime movers able to meet the maximum horsepower condition of the pumps;
- c. be provided with readily available spare parts and tools;
- d. be served by control equipment that has proper heater and overload protection for air temperature encountered.

6.3.1 Suction lift

Suction lift shall:

- a. be avoided, if possible;
- b. be within allowable limits, preferably less than 15 feet.

If suction lift is necessary, provision shall be made for priming the pumps.

6.3.2 Pump Priming

Prime water must not be of lesser sanitary quality than that of the water being pumped. Means shall be provided to prevent either backpressure or backsiphonage backflow. When an

7.0 GENERAL

The materials and designs used for finished water storage structures shall provide stability and durability as well as protect the quality of the stored water. Steel structures shall follow the current AWWA standards concerning steel tanks, standpipes, reservoirs, and elevated tanks wherever they are applicable. Other materials of construction are acceptable when properly designed to meet the requirements of Part 7.

7.0.1 Sizing

Storage facilities should have sufficient capacity, as determined from engineering studies, to meet domestic demands, and where fire protection is provided, fire flow demands.

- FIRE
- a. The minimum storage capacity (or equivalent capacity) for systems not providing fire protection shall be equal to the average daily consumption. This requirement may be reduced when the source and treatment facilities have sufficient capacity with standby power to supplement peak demands of the system.
 - b. Excessive storage capacity should be avoided to prevent potential water quality deterioration problems.
 - c. Fire flow requirements established by the appropriate state Insurance Services Office should be satisfied where fire protection is provided.

7.0.2 Location of reservoirs

- a. The lowest elevation of the floor and sump floor of ground level reservoirs shall be placed above the 100 year flood elevation or the highest flood of record, whichever is higher, and at least two feet above the groundwater table. Sewers, drains, standing water, and similar sources of possible contamination must be kept at least 50 feet from the reservoir. Gravity sewers constructed of water main quality pipe, pressure tested in place without leakage, may be used at distances greater than 20 feet but less than 50 feet.
- b. The bottom of ground level reservoirs and standpipes should be placed at the normal ground surface. If the bottom of a storage reservoir must be below the normal ground surface, at least 50 percent of the water depth must be above grade. The top of a partially buried storage structure shall not be less than two feet above normal ground surface. Clearwells constructed under filters may be exempted from this requirement when the design provides adequate protection from contamination.

7.0.3 Protection from contamination

All finished water storage structures shall have suitable watertight roofs which exclude birds, animals, insects, and excessive dust. The installation of appurtenances, such as antenna, shall be done in a manner that ensures no damage to the tank, coatings or water quality, or corrects any damage that occurred.

7.0.4 Protection from trespassers

Fencing, locks on access manholes, and other necessary precautions shall be provided to prevent trespassing, vandalism, and sabotage. Consideration should be given to the installation of high strength, cut resistant locks or lock covers to prevent direct cutting of a lock.

7.0.5 Drains

No drain on a water storage structure may have a direct connection to a sewer or storm drain. The design shall allow draining the storage facility for cleaning or maintenance without causing loss of pressure in the distribution system.

7.0.6 Stored Water Age

Finished water storage designed to facilitate fire flow requirements and meet average daily consumption should be designed to facilitate turnover of water in the finished water storage to minimize stagnation and/or stored water age. Consideration should be given to separate inlet and outlet pipes mixing, or other acceptable means to avoid stagnation and freezing. Poor water circulation and long detention times can lead to loss of disinfectant residual, microbial growth, formation of disinfectant byproducts, taste and odor problems, and other water quality problems.

7.0.7 Overflow

All water storage structures shall be provided with an overflow which is brought down to an elevation between 12 and 24 inches above the ground surface, and discharges over a drainage inlet structure or a splash plate. No overflow may be connected directly to a sewer or a storm drain. All overflow pipes shall be located so that any discharge is visible.

- a. When an internal overflow pipe is used on elevated tanks, it should be located in the access tube. For vertical drops on other types of storage facilities, the overflow pipe should be located on the outside of the structure.
- b. The overflow for a ground-level storage reservoir shall open downward and be screened with twenty-four mesh non-corrodible screen. The screen shall be installed within the overflow pipe at a location least susceptible to damage by vandalism.
- c. The overflow for an elevated tank shall open downward and be screened with a four mesh, non-corrodible screen or mechanical device, such as a flap valve or duckbill valve, to keep animals or insects. The screen shall be installed within the overflow pipe at a location least susceptible to damage by vandalism.
- d. The overflow pipe shall be of sufficient diameter to permit waste of water in excess of the filling rate.
- e. When a flapper or duckbill valve is used, a screen shall be provided inside the valve. In cold climates, use of a flapper or duckbill should be considered to minimize air movement and hence ice formation in the tank. In cold climates, provisions must be included to prevent the flapper or duckbill from freezing shut.

7.0.8 Access

Finished water storage structures shall be designed with reasonably convenient access to the interior for cleaning and maintenance. At least two (2) manholes shall be provided above the waterline at each water compartment where space permits.

7.0.8.1 Elevated Storage or Dome Roof Structures

- a. At least one of the access manholes shall be framed at least four inches above the surface of the roof at the opening. They shall be fitted with a solid water tight cover which

7.2.2 System sizing

- a. The capacity of the wells and pumps in a hydropneumatic system should be at least ten times the average daily consumption rate.
- b. The gross volume of the hydropneumatic tank, in gallons, should be at least ten times the capacity of the largest pump, rated in gallons per minute. For example, a 250 gpm pump should have a 2,500 gallon pressure tank, unless other measures (e.g., variable speed drives in conjunction with the pump motors) are provided to meet the maximum demand.
- c. Sizing of hydropneumatic storage tanks must consider the need for disinfectant contact time.

7.2.3 Piping

The hydropneumatic tank(s) shall have bypass piping to permit operation of the system while the tank is being repaired or painted.

7.2.4 Appurtenances

Each tank shall have an access manhole, a drain, and control equipment consisting of a pressure gauge, water sight glass, automatic or manual air blow-off, means for adding air, and pressure operated start-stop controls for the pumps. A pressure relief valve shall be installed and be capable of handling the full pumpage rate of flow at the pressure vessel design limit. Where practical the access manhole should be 24 inches in diameter.

7.3 DISTRIBUTION SYSTEM STORAGE

The applicable design standards of Section 7.0 shall be followed for distribution system storage.

7.3.1 Pressures

The maximum variation between high and low levels in storage structures providing pressure to a distribution system should not exceed 30 feet. The minimum working pressure in the distribution system should be 35 psi (240 kPa) and the normal working pressure should be approximately 60 to 80 psi (410 - 550 kPa). When static pressures exceed 100 psi (690 kPa), pressure reducing devices shall be provided on mains or as part of the meter setting on individual service lines in the distribution system.

7.3.2 Drainage

Finished water storage structures which provide pressure directly to the distribution system shall be designed so they can be isolated from the distribution system and drained for cleaning or maintenance without causing a loss of pressure in the distribution system. The storage structure drain shall discharge to the ground surface with no direct connection to a sewer or storm drain.

7.3.3 Level controls

Adequate controls shall be provided to maintain levels in distribution system storage structures. Level indicating devices should be provided at a central location.

- a. Pumps should be controlled from tank levels with the signal transmitted by telemetering equipment when any appreciable head loss occurs in the distribution system between the source and the storage structure.

PRELIMINARY
ENGINEERING
REPORT

Spring Hill Water System Reliability
Improvements

THIS ANALYSIS GIVES
EQUIVATION TO BE CHECKED
BTR 0.15 & 0.30 OF MPD

First Taxing District Water
Department

Norwalk, Connecticut

December 2012

**CDM
Smith**



Section 3

Section 3

Needs Analysis

3.1 General

During the 2010 evaluation of their water supply and distribution system, the District assessed water distribution system piping, pumping, and storage facilities to determine whether the existing system can meet all current and future water demands. As a benchmark for this evaluation, system analysis criteria were established to set minimum requirements for service pressures and flow capacity. For the water system evaluation, the District assessed the system's capability to meet these criteria using their calibrated hydraulic model as a tool.

During the system-wide evaluation, the District developed improvements to address distribution system needs using the calibrated model. In this Section, the District presents water system needs within the Spring Hill High Service area and recommended improvements, which will immediately enhance supply reliability and satisfy future water demands. These improvements were established with the sole purpose of enhancing safety and supporting the health and well-being of the District's customers.

3.2 Water Distribution System Requirements

For public water suppliers in Connecticut, the Connecticut Department of Public Health (CTDPH) has established *Guidelines for the Design and Operations of Public Water System Treatment, Works, and Sources* which are intended to provide guidance to water suppliers and the public concerning public drinking water regulatory mandates. Although these requirements are merely guidelines, CTDPH has the authority under Connecticut General Statute (CGS), Sections 25-32(a) and 25-33(b), and Sections 19-13-B102(d)(2), and 19-13-B80 of the Public Health Code (PHC) to require a specific entity to comply with any of these guidelines.

CTDPH's guidelines are modeled after the *Recommended Standards for Water Works of the Great Lakes* (popularly referred to as the *Ten State Standards*), with appropriate revisions to reflect the policies and needs of the State. CTDPH's guidelines also incorporate materials from national organizations, including the American Water Works Association (AWWA) and the United States Environmental Protection Agency (USEPA). The following paragraphs discuss the criteria and guidelines for water supply system design as they relate to sizing and locating the proposed storage tank and booster station for the Spring Hill high service area.

3.2.1 Pressure Requirements

Accepted industry standards require that water pressure be neither too low nor too high in consumer residences or places of business. The optimal domestic service pressure generally ranges between 60 to 80 pounds per square inch (psi) and pressure fluctuations should be limited to less than 30 psi at all distribution system locations. Customers can encounter plumbing leaks or discharge of hot water heater pressure relief valves with high system pressures. Additionally, abnormally high pressures can result in excess water waste through system leakage and water main breaks. Generally, pressure criteria are used to assess the adequacy of a water distribution system maximum and minimum pressures.

3.2.1.1 Maximum Pressure

Industry standards recommend that the maximum water pressure in a distribution system be no more than 90 to 100 psi. System pressures higher than these limits usually require pressure reducing valves on individual customer service lines.

3.2.1.2 Minimum Domestic Pressure

The minimum pressure during peak hour refers to the minimum domestic pressure that must be maintained in the system during times of high domestic demands, normally during the warm weather months. The Connecticut Department of Public Health (CTDPH) recommends that minimum pressure should not be less than 25 psi conditions at all locations throughout the system during the average day demand (ADD). The Connecticut Department of Public Utilities (CTDPUC) recommends that minimum pressure during the peak hour demand (PHD) should not be less than 35 psi conditions at all locations throughout the system.

3.2.1.3 Minimum Pressure during Fire Flows

The National Fire Protection Association (NFPA) and American Water Works Association (AWWA) require a minimum residual pressure of 20 psi be maintained throughout the entire distribution system during a maximum day plus fire flow demand condition. By maintaining the required minimum pressure of 20 psi during a fire, the water supplier will provide an adequate volume of water for fire department equipment while still providing for the needs of the Norwalk Regional Hospital and other customers.

3.3 Distribution System Storage Requirements

Storage facilities should have sufficient capacity to meet domestic water supply needs and high demand conditions. The volume of storage required can generally be classified into three primary components – equalization storage, fire storage and emergency storage. When storage is properly sized, water supply facilities (i.e., treatment plants and pumping stations) should be sized to provide the service area's maximum day demand (MDD). During brief periods when system demands are greater than maximum day (i.e., peak hour demand conditions), these demands are generally met by the equalization component of active storage.

Distribution system storage facilities are considered adequate if the existing active storage volume meets equalization and fire protection requirements for the community. Active storage, determined by local topography and system hydraulics, represents the volume of water in storage at an elevation that provides a minimum acceptable pressure (i.e., 25 psi during peak hour demands and 20 psi during maximum day demands plus fire flow) at the highest elevation in the service area. The maximum overflow elevation should also be located at the elevation that will not increase pressures above the recommended maximum industry guidelines at the lowest ground elevations in the service area.

The basis for the three major storage requirements and the allocation of these storage requirements is summarized in the following paragraphs. **Figure 3-1** graphically illustrates the three major storage requirements and their respective allocations.

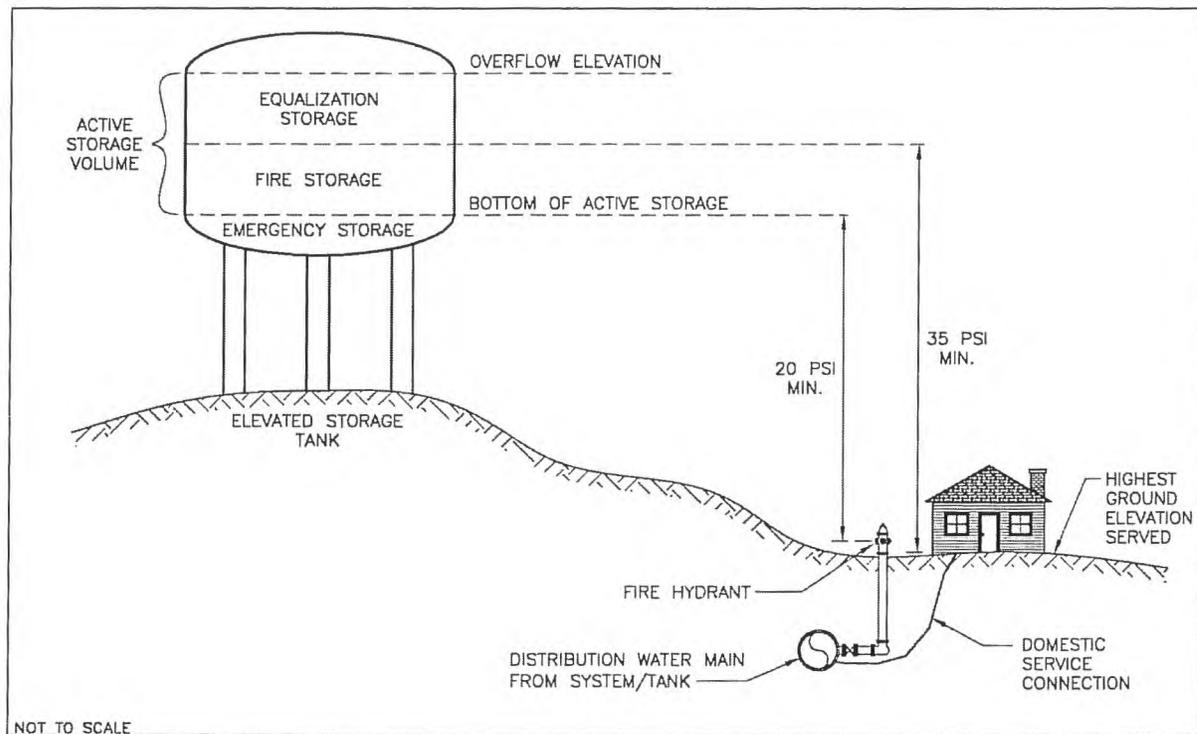


Figure 3-1 Storage Tank Components

3.3.1 Equalization Storage

Equalization storage is the amount of water required to meet demands in excess of production and delivery capabilities of supply sources (i.e., treatment plants and pumping stations). If sized properly, supply sources should be capable of providing the MDD of the service area and any excess demand fluctuations (i.e., peak hour) should be provided by equalization storage. Typically, the equalization storage requirement is between 15 and 30 percent of the MDD. The specific amount of equalization storage for a community is typically determined based on a comparison of the production capabilities versus the demands expected on the system to ensure that equalization storage is sufficient to meet the demands that exceed production capabilities.

Generally, equalization storage occupies the top portion of a storage tank. During the day, this volume decreases as consumption is pulled from the storage facility when demands exceed production or pumping capabilities. As shown on **Figure 3-1**, the equalization storage volume needs to be located above an elevation that will maintain a minimum of 25 psi domestic pressure to the highest ground elevation in the service area.

3.3.2 Fire Storage

The volume of storage required for fire protection is the total volume of water to provide the needed fire flows to a service area. The maximum fire flow within a service area is selected along with the appropriate duration of the fire (typically 2 or 3 hours). Needed fire flows are typically determined by ISO or the local fire marshal or chief. The fire storage volume required is determined by multiplying the required fire flow duration by the needed fire flow in each service area. The needed fire flow for the Spring Hill area is discussed later in this section.

Fire storage is located underneath the equalization storage component. The fire storage volume must be located above an elevation that maintains a minimum of 20 psi to the highest ground elevation in the service area. Under worst case conditions, a fire may occur when equalization storage has been depleted and the remaining HGL must be sufficient to provide the required fire flows while maintaining a residual pressure of 20 psi in the service area during the MDD.

3.3.3 Emergency Storage

Emergency storage provides water during events such as pipeline failures, equipment malfunctions, power outages, water treatment plant failures, raw water contamination events, or other natural disasters. Emergency storage typically occupies the bottom portion of the storage tank, as shown on **Figure 3-1**.

The amount of emergency storage, if required, is a policy decision for each community or water supplier based on an assessment of the risk of failures and the desired degree of system dependability. In many cases, communities that have pumping facilities that are capable of providing demands with adequate emergency stand-by power consider emergency storage a lower priority.

Some state's regulations indicate the minimum emergency storage volume required for a community based on ADD. CTDPH guidelines state that atmospheric storage tank capacity shall be at least 200 gallons per residential customer or equal to the average daily demand of the system, whichever is the greater number (CTDPH Guidelines for the Design and Operations of Public Water System Treatment, Works, and Sources, Chapter VI.C.1.a Sizing). ISO guidelines state that the minimum criteria for a water supply system must be able to deliver at least 250 gpm for a period of two hours in addition to the community's maximum daily rate of consumption for purposes other than firefighting.

Active storage, as shown in **Figure 3-1**, is the volume of water located above an elevation that will provide acceptable pressures to the service area. Storage located below the active storage (i.e., emergency storage) will still provide a volume of water to the service area, albeit at somewhat reduced pressures. Since water utilities would only allow the tank level to drop below the acceptable heights during an emergency, it is not a necessity for the emergency storage component to be considered active storage.

3.4 Other System Considerations

There are many more considerations to take into account when designing a water storage tank, including, but not limited to, site location, tank type, materials of construction, water quality considerations, freezing prevention, disinfection, operation and maintenance, overflow and drains, isolation valves and connection to the distribution system, access and site protection and cathodic protection, to name a few.

3.5 Projected Water Demands

Demand projections are essential to planning for future water system facilities, determining future water supply needs, and developing water supply improvement and rehabilitation programs. **Section 2.7** presents historical consumption and pumping records, which were used to investigate potential growth in the area and estimate future water needs through 2060.

The District met with the Norwalk Regional Hospital officials to review their existing and future potable water requirements. In the spring of 2013, the Hospital will begin construction of the new Maple Street Pavilion. This new Pavilion is estimated to increase current water demands by 220

gallons per minute (gpm) and is estimated to be online by 2015. The hospital has also initiated upgrades to an existing wing. This planned expansion would be in-kind and would not increase the square footage or water usage of the current building.

The additional estimated demand for the Hospital is included in the projections for future water demands. To estimate the project water demands, the District used the percentage increase in projected water consumption, from the Water Supply Plan (WSP), of 17.8, 7.7, and 5.7 percent for the 2015, 2030, and 2060, respectfully.

While reviewing the pumping and consumption data within the Spring Hill high service area, as discussed in Section 2.7, the unaccounted for water percentage represents seven percent of the average daily demands in the Spring Hill area. When projecting future demands, seven percent unaccounted for water was used when projecting future demands for all planning periods in the Spring Hill high service area.

Table 3-1 shows projected water demands for the purpose of this evaluation.

Table 3-1 Projected Average Day Spring Hill High Service Demands

Classification	FY 2012	2015	2030	2060
	Demand (gpd)	Projected Demand (gpd)	Projected Demand (gpd)	Projected Demand (gpd)
Residential	202,863	238,973	257,278	271,917
Commercial	308,225	363,089	390,901	413,144
Hospital (new Pavilion)	-	316,800	316,800	316,800
District Property	66	66	66	66
Sub Total	511,153	918,927	965,045	1,001,926
Unaccounted Water (assumed to be 7% for Spring Hill)	35,781	64,325	67,553	70,135
Total	546,934	983,252	1,032,598	1,072,061

Section 2.7 discusses the historical MDD and PHD peaking factors established for the District, which were found to be 1.51 and 2.83, respectively. These peaking factors were used to project future water demands in the Spring Hill high service area. **Table 3-2** presents the projections for MDD and PHD in millions of gallons per day (mgd) through the 2060 planning period.

Table 3-2 Summary of Projected Demands

Classification	FY 2012	2015	2030	2060
	Demand (mgd)	Projected Demand (mgd)	Projected Demand (mgd)	Projected Demand (mgd)
Average Day (ADD)	0.55	0.98	1.03	1.07
Maximum Day (MDD)	0.83	1.48	1.56	1.62
Peak Hour (PHD)	1.55	2.78	2.92	3.03

3.6 Spring Hill High Service Area Storage Analysis

The Spring Hill Elevated tank was evaluated for its ability to provide the necessary equalization, fire, and emergency storage to the area.

The Spring Hill Elevated Tank has a capacity of 91,210 gallons and is located in the Spring Hill Complex on Grandview Avenue. The tank has an overflow elevation of 302 feet and a base elevation of 280 feet and therefore, provides 22 feet of vertical storage. This tank provides storage for the Spring Hill high service area and is supplied by the Spring Hill pump station, which takes suction from the 3 million gallon (MG) Spring Hill tank in the low service area.

Based on the projected water demands discussed previously, the total required storage needs were estimated for the Spring Hill high service area based on the criteria established in **Section 3.3**. The following paragraphs discuss our estimates for the required equalization, fire protection and emergency storage volumes for the proposed storage tank. **Table 3-3** presents our estimates for the total needed water storage volume.

Table 3-3 Total Needed Storage Capacity

Year	ADD (mgd)	MDD (mgd)	PHD (mgd)	Required Equalization Storage (gallons)	Required Fire Storage (gallons)	Needed Emergency Storage (gallons)	Total Storage (MG)
Fiscal Year 2012	0.55	0.83	1.55	248,000	300,000	45,500	0.59
2015	0.98	1.48	2.78	445,000	300,000	130,000	0.88
2030	1.03	1.56	2.92	468,000	300,000	140,000	0.91
2060	1.07	1.62	3.03	486,000	300,000	150,000	0.94

Notes:

1. Required equalization storage was calculated based on 30% of the projected MDD.
2. Required fire storage was calculated with input from the Norwalk Regional Hospital on their Fire Suppression system design and based on a needed fire flow of 2,500 gpm fire flow for 2 hours.
3. While redundant power, pumping, and additional volume from the 3-MG tank are supplied, the District would also like to provide a minimum emergency volume in the Spring Hill High Service area elevated tank that equals 25 percent of the current and projected ADD demand for the hospital.

3.6.1 Equalization Storage Volume

To supply demands in excess of the delivery capabilities (i.e., booster pumping station) and demand fluctuations (i.e., demands in excess of the MDD, such as peak hour), the equalization storage requirements for Spring Hill high service area were estimated as 30 percent of the MDD, which is on the high end of the range of 15 and 30 percent for equalization storage due to the presence of the hospital and medical facilities. As shown in **Table 3-3**, a total equalization storage volume of about 486,000 gallons is required to supply all of the projected water demands. This volume of equalization storage will help to dampen hourly demand fluctuations and equalize pressure throughout the service area.

3.6.2 Fire Storage Volume

Since there is no available data from ISO for needed fire flows in the Spring Hill High Service area other than a 1,000 gpm residential test, the District and the Norwalk Regional Hospital met to discuss and evaluate needed fire flows and fire suppression system design requirements. ISO's guidelines suggest that the maximum fire flow that a community or public water supplier must deliver to obtain

the best overall insurance rating is 3,500 gpm for a time period of 3 hours. This maximum needed fire flow equates to a total required fire storage volume of 630,000 gallons.

The initial recommendation for the fire storage volume was 630,000 gallons to satisfy the 3,500 gpm/3 hour fire flow guideline. However in discussions with the Norwalk Regional Hospital, it was determined that the maximum flow their fire suppression system would need, including the new pavilion currently under construction, is 2,000 gpm for a time period of 1.5 hours. To provide added security in case of future expansion at the Hospital, the needed fire flow was determined using a 2,500 gpm flow rate for 2 hours.

After determining that the fire protection needs of the Hospital were not at the maximum ISO guideline, concerns were expressed to the District regarding adequate fire flows to critical buildings, such as Kendell Elementary School located on Fallow Street. However, it was determined that since the School is located near the Second Taxing District Water Department and since they are served by a 6-inch fire line that the needed fire protection to the school was not greater than that required for the Hospital.

Accordingly, using 2,500 gpm for 2 hours as the needed fire flow, the projected fire storage volume for the Spring Hill High Service area was determined to be 300,000 gallons.

3.6.3 Emergency Storage Volume

As discussed in Section 3.3.3, the amount of emergency storage is a policy decision for each community or water supplier based on an assessment of the risk of failures and the desired degree of system dependability.

The District met with the Norwalk Regional Hospital to determine the hospitals required water needs during an emergency. The Joint Commission, the accrediting agency for Norwalk Regional Hospital, has the following standards related to 96 hour preparedness and utility preparedness:

*Standard EM.02.01.01: The hospital has an Emergency Operations Plan
Element of Performance (EP)3: The Emergency Operations plan identifies the hospital's capabilities and establishes response procedures for when the hospital cannot be supported by the local community in the hospital's efforts to provide communications, resources and assets, security and safety, staff, utilities or patient care for at least 96 hours.
Note: Hospitals are not required to stockpile supplies to last for more than 96 hours of operation.*

Standard EM.02.02.09: As a part of its Emergency Operations Plan, the hospital prepares for how it will manage utilities during an emergency.

EP3: The hospital identifies alternative means for providing the following: Water needed for consumption and essential care activities

EP4: The hospital identifies alternative means for providing the following: Water needed for equipment and sanitary purposes

The District has made a policy decision to be able to provide water supply to the hospital for at least 96-hours during an emergency. To do this the District has proposed the following in regards to emergency supply.

The Spring Hill pump station will have adequate emergency stand-by power for full facility operation through the 2060 planning period, as well as a back-up diesel driven pump to handle a future

maximum day demand. Furthermore, in the case of a major emergency the District will have the ability to isolate the 3-MG tank from the low service system and utilize the back-up power and pumping to use the 3-MG tank as the emergency volume.

While redundant power, pumping, and additional volume from the 3-MG tank are supplied, the District would also like to provide a minimum emergency volume in the Spring Hill High Service area elevated tank that equals 25 percent of the current and projected ADD demand for the hospital.

This minimum volume allows the District to provide about six hours of the Hospital's future ADD at reduced pressures while the District and the Hospital work to correct the problem. This would require that the District provide about 150,000 gallons of emergency storage to supply all project water demands.

Assuming that the 3-MG tank is full and that the District will reserve the 300,000 gallons of fire flow storage in the elevated tank, the District will be able to provide 3,393,000 gallons of water for the Norwalk Hospital. This volume would be able to provide about 147 hours of storage capacity while just serving the Hospital at the future ADD or about 74 hours of storage capacity while serving the entire high service area.

3.6.4 Total Storage Volume

CDM Smith estimates that the total required storage for the Spring Hill high service area to supply all current and projected future water demands is about 1.0 million gallons (MG). **Table 3-3** (shown again below) summarizes the projected storage requirements discussed in the preceding paragraphs of this section.

Table 3-3 Total Needed Storage Capacity

Year	ADD (mgd)	MDD (mgd)	PHD (mgd)	Required Equalization Storage (gallons)	Required Fire Storage (gallons)	Needed Emergency Storage (gallons)	Total Storage (MG)
Fiscal Year 2012	0.55	0.83	1.55	248,000	300,000	45,500	0.59
2015	0.98	1.48	2.78	445,000	300,000	130,000	0.88
2030	1.03	1.56	2.92	468,000	300,000	140,000	0.91
2060	1.07	1.62	3.03	486,000	300,000	150,000	0.94

Notes:

1. Required equalization storage was calculated based on 30% of the projected MDD.
2. Required fire storage was calculated with input from the Norwalk Regional Hospital on their Fire Suppression system design and based on a needed fire flow of 2,500 gpm fire flow for 2 hours.
3. While redundant power, pumping, and additional volume from the 3-MG tank are supplied, the District would also like to provide a minimum emergency volume in the Spring Hill High Service area elevated tank that equals 25 percent of the current and projected ADD demand for the hospital.

3.6.5 Storage Elevations

Water storage tanks must maintain the necessary hydraulic grade line (HGL) to provide adequate pressures to the entire service area under the conditions discussed earlier. Typically, storage for water distribution systems "float on the system," which means that the storage volumes are located at elevations so that the tank establishes the HGL of the service area and water can flow to and from the tank as demands increase and decrease. For areas where the storage tank can be located at a significantly higher ground elevation than the areas it will serve, a ground storage tank (the base

Jessamine-South Elkhorn Water District

Information Request No. 30: Please explain the status of the legislative grants referred to in paragraphs 7, 12 (e) and 16 of the Application, including without limitation the dates of expiration of the grants and any limitations on the location of the project(s) for which the grants will be utilized.

Answer: It is my understanding that the grants will have to be re-authorized at the 2016 session of the General Assembly or these could be lost by the Water District. It is my further understanding that there is a limitation imposed by KIA as to site location regarding the grants.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 31: Please provide all documents relating to or containing the legislative grants referred to in paragraphs 7, 12(e) and 16 of the Application, including without limitation all documents relating to the District's request that grants 355N-2007, 356-N-2007 and 357N-2007 be reassigned to the "Catnip Hill Project."

Answer: See attachments to Requests 24 and 25.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 32: Explain the basis for the following statement in the letter dated March 7, 2014, from Bruce E. Smith to Jeff R. Derouen that transmitted the Application in this proceeding to the Commission: "Because these grants have been pending for some time, the District also believes that unless some progress is made on or before June 1, 2014 towards bringing this project closer to completion, the grant funds may be reallocated to other entities."

Answer: It was my understanding from conversation with Representative Robert Damron that the grants had to be re-allocated and re-authorized by act of the Kentucky General Assembly in the 2014 session. If the grants were not re-allocated and re-authorized in the 2014 session, they would have been lost by the Water District. Because the re-allocation and re-authorization was a political process, the Water District was uncertain, as of the date of the letter, whether or not the funds would be available when the 2014 session closed. Accordingly, the Water District conveyed this concern to the PSC because the Water District wanted to be in the position of having an approved project to which the funds could be devoted prior the end of the General Assembly's 2014 session.

[Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 33: Please provide all documents relating to fire protection that the District sent to or received from fire underwriter's organizations, Insurance Services Organization Office or the Fire Insurance Rating Office in Kentucky since December 1, 2012.

Answer: There were no documents "sent". Those handbooks referenced in the Storage Analysis from either of the above organizations were obtained and consulted. Object to providing a copy of these materials because it is unduly burdensome and costly to the Water District. Forest Hills is free to contact these organizations and obtain this reference material.

[John G. Horne and Applicant's Counsel]

Jessamine-South Elkhorn Water District

Information Request No. 34: Please provide a description of all professional training received by Dallam B. Harper, Jr., in population protection, including without limitation the name of the institution providing the training the date for each course of training and a curriculum for each course of training.

Answer: My professional training began at the University of Kentucky with the Calculus, Statistics and Computer Science courses that one undertakes while securing a Bachelor's degree in Business Administration from the University of Kentucky. My competence was certified by way of a rigorous testing program by the American Planning Association's Professional Institute of Certified Planners in 2011. See exam outline attached which reflects the areas of testing. The entire Bulletin from which this outline was taken can be accessed at <http://www.planning.org/certification/bulletin>. My Certified Planner Number is 024215.

[Dallam B. Harper, Jr.]

AICP CERTIFICATION EXAM OUTLINE

The AICP Comprehensive Planning Examination consists of 170 multiple choice questions (20 of which are pre-test and do not count toward the final score). The items listed below under each of the major areas are intended to be representative and not inclusive of all subject matter known to the planning profession.

Candidates should note that exam questions do not precisely follow the order listed below. Questions are randomly distributed in the examination to provide an even distribution of questions with respect to degrees of difficulty relative to an individual candidate's education and experience.

The specifications are:

I. History, Theory and Law [15%]

- A. History of planning
- B. Planning law
- C. Theory of planning
- D. Patterns of human settlement

II. Plan Making and Implementation [30%]

- A. Visioning and goal setting
- B. Quantitative and qualitative research methods
- C. Collecting, organizing, analyzing, and reporting data and information
- D. Demographics and economics
- E. Natural and built environment
- F. Land use and development regulations
- G. Application of legal principles
- H. Environmental analysis
- I. Growth management techniques
- J. Budgets and financing options
- K. GIS/spatial analysis and information systems
- L. Policy analysis and decision making
- M. Development plan and project review
- N. Program evaluation
- O. Communications techniques
- P. Intergovernmental relationships
- Q. Stakeholder relationships
- R. Project and program management

III. Functional Areas of Practice [25%]

- A. Community development
- B. Comprehensive or long range planning
- C. Development regulation or administration
- D. Economic development and revitalization
- E. Economic analysis and forecasting
- F. Educational, institutional, or military facilities planning
- G. Energy policy
- H. Food system planning
- I. Growth management
- J. Hazard mitigation and disaster planning
- K. Historic preservation

- L. Housing
- M. Infrastructure
- N. Labor force or employment
- O. Land use
- P. Natural resources and the environment
- Q. Parks, open space and recreation
- R. Planning law
- S. Policy planning
- T. Public services
- U. Social and health services
- V. Transportation
- W. Urban design

IV. Spatial Areas of Practice [15%]

- A. Planning at national level
- B. Planning for multi-state or bi-state regions
- C. Planning for state
- D. Planning for sub-state region
- E. Planning at county level
- F. Planning for urban areas
- G. Planning for suburban areas
- H. Planning for small town
- I. Corridors
- J. Neighborhoods
- K. Waterfronts
- L. Historic districts or areas
- M. Downtowns

V. Public Participation and Social Justice [10%]

- A. Public involvement planning
- B. Public participation techniques
- C. Identifying, engaging, and serving underserved groups
- D. Social justice issues, literature, and practice
- E. Working with diverse communities
- F. Coalition building

VI. AICP Code of Ethics and Professional Conduct [5%]

Jessamine-South Elkhorn Water District

Information Request No. 35: Please provide all workpapers, spreadsheets, analyses, source documents and other documents utilized by Dallam B. Harper, Jr. in preparation of the "Population Projections Jessamine-South Elkhorn Water District 2015-2050" attached to the testimony of Mr. Harper.

Answer: See attached.

[Dallam B. Harper, Jr.]

Worksheet 1A - Total Population, Census 2000 and 2010, Projections 2015-2050: State, ADDs, and Counties

	Census	Census	Projections							
	2000	2010	2015	2020	2025	2030	2035	2040	2045	2050
Kentucky	4,041,769	4,339,367	4,509,429	4,672,754	4,820,390	4,951,178	5,063,331	5,162,292	5,254,876	5,349,720
ADDs										
Barren River	255,225	284,195	300,141	316,297	331,190	345,129	357,537	368,896	379,680	390,454
Big Sandy	160,532	154,093	151,480	148,051	143,741	138,745	133,256	127,600	122,034	116,752
Bluegrass	686,003	770,404	816,391	862,521	907,898	951,537	992,872	1,032,497	1,071,606	1,111,847
Buffalo Trace	55,229	56,478	57,508	58,306	58,798	58,876	58,625	58,128	57,517	56,880
Cumberland Valley	238,270	236,618	237,699	237,501	235,987	233,300	229,507	225,037	220,224	215,447
FIVCO	135,849	137,884	138,868	139,098	138,456	137,131	135,310	133,151	130,781	128,458
Gateway	76,237	81,652	84,781	87,651	90,220	92,584	94,633	96,517	98,328	100,257
Green River	207,377	213,472	217,407	220,544	222,747	224,020	224,313	223,771	222,843	222,077
Kentuckiana	869,306	959,091	1,008,643	1,058,343	1,105,339	1,149,085	1,189,123	1,226,628	1,263,008	1,300,202
Kentucky River	120,656	114,762	113,343	111,267	108,501	105,150	101,458	97,648	93,889	90,263
Lake Cumberland	193,452	207,256	214,745	221,481	227,197	231,910	235,533	238,403	240,873	243,421
Lincoln Trail	243,202	269,117	282,481	295,040	306,439	316,231	324,309	330,905	336,547	341,812
Northern KY	391,417	438,647	463,305	488,377	511,667	533,079	552,228	569,385	585,039	600,098
Pennyrile	215,519	219,305	223,324	226,580	228,965	230,248	230,566	230,332	229,907	229,613
Purchase	193,495	196,393	199,313	201,697	203,245	204,153	204,061	203,394	202,600	202,139
Counties										
Adair	17,244	18,656	19,391	20,052	20,622	21,095	21,459	21,733	21,942	22,130
Allen	17,800	19,956	21,205	22,366	23,399	24,318	25,122	25,831	26,448	26,993
Anderson	19,111	21,421	22,538	23,555	24,486	25,255	25,875	26,369	26,782	27,144
Ballard	8,286	8,249	8,244	8,217	8,167	8,073	7,935	7,770	7,607	7,459
Barren	38,033	42,173	44,305	46,361	48,320	50,105	51,721	53,180	54,521	55,867
Bath	11,085	11,591	11,893	12,132	12,286	12,360	12,381	12,342	12,269	12,178
Bell	30,060	28,691	28,248	27,648	26,875	25,983	24,994	23,987	22,993	22,026
Boone	85,991	118,811	135,584	153,933	172,101	190,270	207,901	224,687	240,683	256,223
Bourbon	19,360	19,985	20,303	20,530	20,687	20,753	20,702	20,552	20,349	20,143
Boyd	49,752	49,542	49,608	49,446	49,000	48,378	47,635	46,843	46,009	45,219
Boyle	27,697	28,432	28,782	29,048	29,176	29,126	28,842	28,390	27,839	27,264
Bracken	8,279	8,488	8,637	8,744	8,804	8,810	8,763	8,672	8,564	8,455
Breathitt	16,100	13,878	13,216	12,495	11,750	11,000	10,275	9,600	8,979	8,410
Breckinridge	18,648	20,059	20,819	21,489	22,065	22,485	22,716	22,820	22,877	22,940
Bullitt	61,236	74,319	81,358	88,508	95,623	102,461	108,891	114,952	120,801	126,708
Butler	13,010	12,690	12,658	12,544	12,345	12,060	11,708	11,305	10,883	10,471
Caldwell	13,060	12,984	12,996	12,948	12,864	12,707	12,492	12,246	11,985	11,744
Calloway	34,177	37,191	38,816	40,411	41,904	43,618	45,136	46,607	48,097	49,767
Campbell	88,616	90,336	91,199	91,642	91,475	90,731	89,524	88,012	86,323	84,589
Carlisle	5,351	5,104	5,036	4,947	4,843	4,721	4,581	4,423	4,255	4,095
Carroll	10,155	10,811	11,140	11,440	11,691	11,886	12,056	12,197	12,317	12,427
Carter	26,889	27,720	28,180	28,459	28,535	28,411	28,146	27,788	27,365	26,910
Casey	15,447	15,955	16,228	16,433	16,550	16,562	16,473	16,323	16,152	15,990
Christian	72,265	73,955	75,962	77,840	79,580	81,015	82,081	82,947	83,726	84,474

Worksheet 1A - Total Population, Census 2000 and 2010, Projections 2015-2050: State, ADDs, and Counties

	Census	Census	Projections							
	2000	2010	2015	2020	2025	2030	2035	2040	2045	2050
Clark	33,144	35,613	36,892	37,985	38,836	39,423	39,756	39,933	39,988	39,977
Clay	24,556	21,730	21,059	20,289	19,431	18,496	17,541	16,598	15,697	14,851
Clinton	9,634	10,272	10,614	10,896	11,109	11,268	11,381	11,471	11,538	11,609
Crittenden	9,384	9,315	9,254	9,156	9,017	8,839	8,655	8,459	8,273	8,107
Cumberland	7,147	6,856	6,764	6,649	6,491	6,313	6,126	5,935	5,749	5,573
Daviess	91,545	96,656	99,601	102,214	104,393	106,153	107,434	108,317	108,963	109,612
Edmonson	11,644	12,161	12,429	12,628	12,750	12,769	12,692	12,559	12,380	12,189
Elliott	6,748	7,852	7,992	8,078	8,126	8,127	8,094	8,013	7,903	7,789
Estill	15,307	14,672	14,560	14,359	14,057	13,666	13,206	12,709	12,212	11,717
Fayette	260,512	295,803	315,249	334,733	355,224	375,986	396,970	418,413	440,701	464,503
Fleming	13,792	14,348	14,649	14,880	15,028	15,057	14,973	14,817	14,613	14,394
Floyd	42,441	39,451	38,438	37,153	35,628	34,001	32,309	30,618	28,961	27,400
Franklin	47,687	49,285	50,148	50,777	51,185	51,323	51,198	50,917	50,609	50,375
Fulton	7,752	6,813	6,528	6,223	5,893	5,535	5,159	4,785	4,422	4,081
Gallatin	7,870	8,589	8,945	9,264	9,525	9,695	9,801	9,863	9,892	9,906
Garrard	14,792	16,912	18,030	19,122	20,106	20,954	21,677	22,255	22,716	23,123
Grant	22,384	24,662	25,832	26,917	27,912	28,768	29,496	30,090	30,593	31,069
Graves	37,028	37,121	37,433	37,630	37,685	37,560	37,297	36,946	36,557	36,174
Grayson	24,053	25,746	26,476	27,048	27,465	27,703	27,816	27,827	27,791	27,747
Green	11,518	11,258	11,217	11,112	10,943	10,733	10,497	10,235	9,946	9,669
Greenup	36,891	36,910	37,002	36,923	36,661	36,231	35,660	35,008	34,317	33,670
Hancock	8,392	8,565	8,716	8,843	8,936	8,996	9,007	8,980	8,952	8,944
Hardin	94,174	105,543	111,225	116,612	121,541	125,898	129,612	132,691	135,310	137,667
Harlan	33,202	29,278	27,726	26,099	24,361	22,589	20,846	19,191	17,641	16,216
Harrison	17,983	18,846	19,282	19,640	19,877	19,980	19,921	19,710	19,398	19,057
Hart	17,445	18,199	18,508	18,690	18,745	18,691	18,528	18,286	17,995	17,685
Henderson	44,829	46,250	47,017	47,600	47,992	48,122	47,975	47,576	47,072	46,635
Henry	15,060	15,416	15,706	15,915	16,037	16,110	16,062	15,946	15,802	15,693
Hickman	5,262	4,902	4,767	4,625	4,465	4,292	4,109	3,923	3,745	3,570
Hopkins	46,519	46,920	47,557	48,007	48,214	48,204	48,067	47,836	47,593	47,409
Jackson	13,495	13,494	13,690	13,771	13,709	13,538	13,251	12,886	12,461	12,009
Jefferson	693,604	741,096	768,000	793,817	817,427	838,053	855,909	872,231	888,125	904,790
Jessamine	39,041	48,586	53,645	58,928	63,999	68,933	73,722	78,323	82,721	87,040
Johnson	23,445	23,356	23,376	23,265	22,999	22,605	22,091	21,533	20,978	20,438
Kenton	151,464	159,720	164,307	168,458	171,990	174,699	176,571	177,963	179,079	180,193
Knott	17,649	16,346	16,036	15,635	15,139	14,562	13,943	13,322	12,723	12,159
Knox	31,795	31,883	32,115	32,132	31,970	31,622	31,103	30,467	29,754	29,030
Larue	13,373	14,193	14,596	14,961	15,265	15,512	15,696	15,826	15,918	15,999
Laurel	52,715	58,849	61,944	64,713	67,209	69,425	71,252	72,751	74,007	75,168
Lawrence	15,569	15,860	16,086	16,192	16,134	15,984	15,775	15,499	15,187	14,870
Lee	7,916	7,887	7,872	7,820	7,739	7,607	7,430	7,224	7,012	6,788
Leslie	12,401	11,310	10,981	10,603	10,181	9,730	9,265	8,809	8,375	7,973
Letcher	25,277	24,519	24,464	24,237	23,829	23,300	22,716	22,126	21,551	20,994
Lewis	14,092	13,870	13,904	13,899	13,818	13,637	13,385	13,097	12,794	12,494
Lincoln	23,361	24,742	25,509	26,170	26,675	26,997	27,150	27,178	27,119	27,014

Worksheet 1A - Total Population, Census 2000 and 2010, Projections 2015-2050: State, ADDs, and Counties

	Census	Census	Projections							
	2000	2010	2015	2020	2025	2030	2035	2040	2045	2050
Livingston	9,804	9,519	9,510	9,438	9,280	9,018	8,699	8,374	8,055	7,754
Logan	26,573	26,835	27,158	27,382	27,464	27,325	26,997	26,557	26,086	25,624
Lyon	8,080	8,314	8,450	8,523	8,506	8,402	8,255	8,110	7,988	7,886
McCracken	65,514	65,565	66,188	66,621	66,781	66,567	65,958	65,105	64,214	63,428
McCreary	17,080	18,306	18,373	18,314	18,111	17,789	17,377	16,901	16,396	15,881
McLean	9,938	9,531	9,423	9,271	9,083	8,864	8,608	8,332	8,046	7,773
Madison	70,872	82,916	89,055	95,333	101,543	107,665	113,562	119,341	125,131	131,067
Magoffin	13,332	13,333	13,496	13,587	13,580	13,469	13,259	12,967	12,646	12,321
Marion	18,212	19,820	20,637	21,424	22,152	22,757	23,256	23,653	23,951	24,212
Marshall	30,125	31,448	32,301	33,023	33,507	33,787	33,886	33,835	33,703	33,565
Martin	12,578	12,929	12,504	12,055	11,551	10,991	10,399	9,801	9,219	8,665
Mason	16,800	17,490	17,991	18,419	18,779	19,031	19,193	19,265	19,308	19,351
Meade	26,349	28,602	29,819	30,901	31,801	32,481	32,934	33,186	33,285	33,305
Menifee	6,556	6,306	6,194	6,038	5,847	5,613	5,355	5,089	4,821	4,567
Mercer	20,817	21,331	21,615	21,810	21,865	21,741	21,447	21,047	20,588	20,112
Metcalfe	10,037	10,099	10,233	10,329	10,383	10,380	10,322	10,210	10,075	9,938
Monroe	11,756	10,963	10,696	10,405	10,068	9,675	9,244	8,804	8,377	7,979
Montgomery	22,554	26,499	28,607	30,750	32,905	35,042	37,132	39,229	41,343	43,517
Morgan	13,948	13,923	14,020	14,023	13,913	13,707	13,423	13,082	12,708	12,337
Muhlenberg	31,839	31,499	31,548	31,466	31,254	30,858	30,325	29,742	29,172	28,643
Nelson	37,477	43,437	46,791	50,119	53,337	56,309	59,003	61,508	63,952	66,426
Nicholas	6,813	7,135	7,298	7,411	7,490	7,534	7,556	7,557	7,544	7,516
Ohio	22,916	23,842	24,362	24,781	25,073	25,309	25,495	25,611	25,675	25,744
Oldham	46,178	60,316	67,412	74,990	82,306	89,639	96,668	103,223	109,294	115,096
Owen	10,547	10,841	11,125	11,336	11,474	11,541	11,534	11,455	11,323	11,173
Owsley	4,858	4,755	4,738	4,704	4,633	4,529	4,405	4,265	4,122	3,975
Pendleton	14,390	14,877	15,173	15,387	15,499	15,489	15,345	15,118	14,829	14,518
Perry	29,390	28,712	28,520	28,137	27,516	26,682	25,693	24,610	23,489	22,386
Pike	68,736	65,024	63,666	61,991	59,983	57,679	55,198	52,681	50,230	47,928
Powell	13,237	12,613	12,504	12,319	12,063	11,732	11,358	10,967	10,587	10,226
Pulaski	56,217	63,063	67,082	71,036	74,821	78,421	81,718	84,775	87,756	90,817
Robertson	2,266	2,282	2,327	2,364	2,369	2,341	2,311	2,277	2,238	2,186
Rockcastle	16,582	17,056	17,370	17,593	17,712	17,716	17,581	17,318	16,988	16,646
Rowan	22,094	23,333	24,067	24,708	25,269	25,862	26,342	26,775	27,187	27,658
Russell	16,315	17,565	18,208	18,782	19,292	19,721	20,057	20,327	20,553	20,775
Scott	33,061	47,173	55,038	63,984	73,133	82,497	91,779	100,732	109,412	117,889
Shelby	33,337	42,074	46,838	51,944	56,950	61,939	66,835	71,703	76,646	81,762
Simpson	16,405	17,327	17,864	18,342	18,750	19,034	19,178	19,235	19,233	19,232
Spencer	11,766	17,061	20,157	23,655	27,189	30,861	34,587	38,301	41,988	45,725
Taylor	22,927	24,512	25,336	26,079	26,716	27,280	27,756	28,203	28,618	29,062
Todd	11,971	12,460	12,730	12,958	13,144	13,292	13,387	13,439	13,456	13,468
Trigg	12,597	14,339	15,317	16,244	17,106	17,913	18,605	19,179	19,659	20,128
Trimble	8,125	8,809	9,172	9,514	9,807	10,022	10,171	10,272	10,352	10,428
Union	15,637	15,007	14,752	14,436	14,066	13,624	13,129	12,611	12,107	11,634
Warren	92,522	113,792	125,085	137,250	148,966	160,772	172,025	182,929	193,682	204,476

Worksheet 1A - Total Population, Census 2000 and 2010, Projections 2015-2050: State, ADDs, and Counties

	Census	Census	Projections							
	2000	2010	2015	2020	2025	2030	2035	2040	2045	2050
Washington	10,916	11,717	12,118	12,486	12,813	13,086	13,276	13,394	13,463	13,516
Wayne	19,923	20,813	21,532	22,128	22,542	22,728	22,689	22,500	22,223	21,915
Webster	14,120	13,621	13,536	13,399	13,204	12,952	12,665	12,344	12,028	11,735
Whitley	35,865	35,637	35,547	35,256	34,720	33,931	32,939	31,839	30,683	29,501
Wolfe	7,065	7,355	7,516	7,636	7,714	7,740	7,731	7,692	7,638	7,578
Woodford	23,208	24,939	25,943	26,817	27,496	27,972	28,151	28,104	27,910	27,680

Kentucky State Data Center, University of Louisville, 2011

Share of Future Growth Choices
Worksheet #3

	Jessamine County	Population Increase	Percent Growth	H20 District	Population Increase	Percent Growth	H20 District's Share
Census 1990 Population	30,508			3,490			
Census 2000 Population	39,041	8,533	27.97%	4,261	771	22.09%	9.04%**
Census 2010 Population	48,586	9,545	24.45%	6,100	1,839	43.16%	19.26%***
Census Growth 1990 - 2010		18078	59.36%		2,610	74.78%	14.38%****

County - Ky Data Center Projection*	County	Population Increase	Percent Growth		County*	2010 - 2030	2030 - 2050
Population Projection 2015	53,645	5,059		Alt. "A"	District @ 9.04% Share**	41.87%	26.26%
Population Projection 2020	58,928	5,283	21.29%	ALT "C"	District @ 14.38% Share****	30.13%	20.58%
Population Projection 2025	63,999	5,071		ALT"B"	District @ 19.26% share***	49.08%	27.84%
Population Projection 2030	68,933	4,934	15.28%			64.21%	34.80%
Population Projection 2035	73,722	4,789					
Population Projection 2040	78,323	4,601	13.62%				
Population Projection 2045	82,721	4,398					
Population Projection 2050	87,040	4,319	11.12%				

BGADD Projection "A" at 9.04% Share**	H20 District	Population Increase	Percent Growth
Population Projection 2015	6557	457	
Population Projection 2020	7034	477	15.31%
Population Projection 2025	7492	458	
Population Projection 2030	7938	446	12.85%
Population Projection 2035	8370	432	
Population Projection 2040	8785	415	10.67%
Population Projection 2045	9182	397	
Population Projection 2050	9572	390	8.96%

BGADD Projection "B" at 19.26% Share***		Population Increase	Percent Growth
Population Projection 2015	7074	974	
Population Projection 2020	8091	1017	32.63%
Population Projection 2025	9067	976	
Population Projection 2030	10017	950	23.80%
Population Projection 2035	10939	922	
Population Projection 2040	11825	886	18.04%
Population Projection 2045	12672	847	
Population Projection 2050	13503	831	14.19%

BGADD Projection "C" at 14.38% Share****		Population Increase	Percent Growth
Population Projection 2015	6827	727	
Population Projection 2020	7586	759	24.36%
Population Projection 2025	8315	729	
Population Projection 2030	9024	709	18.95%
Population Projection 2035	9712	688	
Population Projection 2040	10373	661	14.94%
Population Projection 2045	11005	632	
Population Projection 2050	11626	621	12.07%

**Jessamine County Population
Worksheet #1**

PEPANNRES: Annual Estimates of the
2012 Population Estimates

Geography	April 1, 2010		Population Estimate (as of July 1)		
	Census	Estimates	2010	2011	2012
Jessamine County, Kentucky	48,586	48,586	48,720	49,020	49,635

Note: The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions. See Geographic Terms and Definitions at <http://www.census.gov/popest/about/geo/terms.html> for a list of the states that are included in each region and division. All geographic boundaries for the 2012 population estimates series are defined as of January 1, 2012. An "(X)" in the 2010 Census field indicates a locality that was formed or incorporated after the 2010 Census. Additional information on these localities can be found in the Geographic Change Notes (see <http://www.census.gov/popest/about/geo/changes.html>). For population estimates methodology statements, see Suggested Citation:
Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2012
Source: U.S. Census Bureau, Population Division
Release Dates: For the United States, regions, divisions, states, and Puerto Rico Commonwealth, December 2012. For counties and Puerto Rico municipios, March 2013. For Cities and Towns (Incorporated Places and Minor Civil

Census Clock Base Population Allocations
Worksheet #2

Block Group*†	1990	2000	Pct. Change	2010	Pct. Change
6001	1999	2641	32.12	3657 ¹	38.47
6002	1225	1292	5.47	1991	54.10
1011	1315	2716	106.54	3144 ²	15.76
1012	1656	2138	29.11	4386 ³	105.14
4001	1903	3209	68.63	3779 ⁴	17.76
4002	2007	2542	26.66	2675	5.23
4003	961	892	-7.18	826	-7.40
Total	11066	15430	39.44	5492	32.59
Study Area	3490	4261	22.09	6100	43.16

*2000 US Census Block Group boundaries used for all years specified in the study.

† Census Block Group numbers are abbreviated from official designation. All numbers are preceded by '21113060'

¹ Combination of 2010 US Census Block Groups 6001 and 6003

² Combination of 2010 US Census Block Groups 1011 and 1013

³ Combination of 2010 US Census Block Groups 1012 and 1014

⁴ Combination of 2010 US Census Block Groups 4001 and 4005

Jessamine-South Elkhorn Water District

Information Request No. 36: Please identify all persons who participated in the preparation of the "Population Projections Jessamine-South Elkhorn Water District 2015-2050" attached to the testimony of Mr. Harper.

Answer: Mapping and GIS assistance was provided by Mr. Rick Hernandez and Mr. Austin Bates from the GIS Department at the Bluegrass Area Development District.

[Dallam B. Harper, Jr.]

Jessamine-South Elkhorn Water District

Information Request No. 37: Aside from the "Population Projections Jessamine-South Elkhorn Water District 2015-2050" attached to the testimony of Mr. Harper:

- (i) State the number of population growth studies that Mr. Harper has prepared;
- (ii) The name of each study;
- (iii) The entity for which each study was prepared; and
- (iv) The date that each study was prepared

Answer:

- (i) Eight +.
- (ii), (iii) and (iv) – [1] *LFUCG Comprehensive Plans" (1996, 2001, and 2007)* for Lexington Fayette Urban County Council and the Lexington-Fayette Urban County Planning Commission; [2] *Danville, Boyle County Comprehensive Plan (2007)* for the Boyle County Fiscal Court, the Danville City Council and the Boyle County Planning Commission; [3] *City of Stanford Comprehensive Plan (2008)* for the Stanford City Council and the Stanford Planning Commission; [4] *Wilmore, Nicholasville Jessamine County Joint Comprehensive Plan" (2011)* for the Wilmore City Council, the Nicholasville City Commission, the Jessamine County Fiscal Court, the Jessamine County – City of Wilmore Planning Commission and the City of Nicholasville Planning Commission; [5] *Lawrenceburg, Anderson County Comprehensive Plan (2013)* for the Lawrenceburg City Council, the Anderson County Fiscal Court and the Anderson County – Lawrenceburg – Joint Planning Commission; and [6] *Danville Small Area Environmental Justice Report (2014)* for the Commonwealth of Kentucky, Transportation Cabinet.

[Dallam B. Harper, Jr.]

Jessamine-South Elkhorn Water District

Information Request No. 38: Refer to the Hydraulic Analysis and accompanying 72-hour EPS Hydraulic Model (collectively, "Model") submitted with the District's Application. State which version of KYPIPE software was used to create the Model.

Answer: KYPIPE, PIPE2012

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 39: Refer to page 4, lines 9-11 of Christopher Horne's testimony that was submitted with the District's Application.

(a) State each and every "standards of the industry" to which Mr. Horne refers.

(b) Provide a complete copy of each and every "standard[]" of the industry" referenced in response to subpart (a) of this request.

Answer:

(a) The standards are identified in Section VI of the "Storage Analysis" report, beginning on page 22. Each reference is footnoted in that section.

(b) As noted above, each reference given in the "Storage Analysis" is footnoted citing the source of the information.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 40: Provide the date that the District decided to pursue constructing a 750,000 gallon elevated water storage tank.

Answer: February 5, 2014.

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 41: Refer to pages 5-6 of Christopher Horne's testimony that was submitted with the District's Application. Provide all calculations, formulas, and analyses on which the District relied to determine the "required storage and volume" of the proposed elevated water storage tank, including all documents related to same.

Answer: The "Storage Analysis" submitted with the application includes numerous formulas and analyses used to determine the required storage. See Section VI, "Storage Requirements" of that document.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 42: Provide all documents on which the District relied in calculating and/or estimating the cost of constructing:

- (a) A 750,000 gallon elevated water storage tank;
- (b) A 500,000 gallon elevated water storage tank; and
- (c) Any other size tank the District has considered since the Commission's Final Order in Case No. 2012-00470.

(d) If no such documents are available, explain fully and in detail how the District estimated the costs of a 750,000 gallon and 500,000 gallon elevated water storage tank in this proceeding.

ANSWER:

(a) See Appendix B of "Storage Analysis" for estimates provided by Caldwell Tank. Estimates are given for a 250,000 gallon tank, 500,000 gallon tank, and 750,000 gallon tank.

(b) See Appendix B of "Storage Analysis" for estimates provided by Caldwell Tank. Estimates are given for a 250,000 gallon tank, 500,000 gallon tank, and 750,000 gallon tank.

(c) 250,000 gallon tank.

(d) Not Applicable.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 43: Have any of the estimated costs of constructing a 750,000 gallon or 500,000 gallon elevated water storage tank changed since the date the District decided to pursue constructing a 750,000 gallon elevated water storage tank?

(a) If yes, please provide each and every change and the reasons for same, including any and all documents on which the District relied.

Answer: Unknown. The estimated costs given were based upon historical data from the bidding which took place and was disclosed in Case No. 2012-00470. Changes can only be identified by bidding which is unnecessary at this time.

[John G. Horne]

Jessamine-South Elkhorn Water District

Information Request No. 44: Refer to Christopher Horne's testimony that was submitted with the District's Application. Fully explain what "equalization" means and how it affects the District's proposed construction in this proceeding.

Answer: See "Storage Analysis" submitted with the application, pages 10 and 22-24 for explanation of equalization.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 45: Refer to page 7 of Christopher Horne's testimony that was submitted with the District's Application. Provide a list of any voluntary or involuntary water restrictions the District has imposed in the Northwest service area since 2004, including:

- (a) The date the restriction was imposed;
- (b) The nature of the restriction;
- (c) The affected customer classes; and the
- (d) The length of the restriction.

Answer: Objection. The compilation of a list of such restrictions not related to storage would be unduly burdensome and a waste of the Water District's time and resources. Notwithstanding the Objections, the Water District generally imposes restrictions when the Kentucky American Water Company imposes restrictions although the District adopted Rule 34 of its Water Rules and Regulations in 1991 which can be viewed on the PSC website.

[Glenn T. Smith]

Jessamine-South Elkhorn Water District

Information Request No. 46: Refer to page 8 of Christopher Horne's testimony that was submitted with the District's Application. Explain fully why a lag pump is an inefficient way to provide storage.

Answer: When a lag pump is operated at the same time as a lead pump, the two identical pumps do not produce double the flow rate. While lag pump operation does increase the flow rate, it also causes greater fluid friction losses which results in a higher discharge pressure, reduces the flow rate provided by each pump, and alters the efficiency of each pump. Therefore, more energy is required to deliver water.

A much more efficient way to meet peak demands is through equalization volume provided by an elevated storage tank where gravity maintains the required hydraulic grade line. In addition to efficiency, elevated storage also provides increased reliability.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 47: Refer to the Model that was submitted with the District's Application. Confirm that the Model is based on demand data from 2010.

Answer: Demand data for the Hydraulic Analysis dated February 2014 is based on demand data from 2010 and is explained, as such, on the first page of the summary. The year 2010 was selected in the hydraulic model in order to remain consistent with calculations made for equalization, fire flow, and emergency storage in sizing the proposed tank. The most recent census data available is for the year 2010 which provides a baseline for projecting future populations, and therefore, future demands on the system.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 48: What demand data did the District use in the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470?

Answer: Originally, a hydraulic analysis was performed in September 2010, which included demand values customarily used for line extensions for the Jessamine-South Elkhorn Water District (JSEWD) system. These demand values err on the side of safety in that they are higher than the actual average demand values.

The Division of Water requested that the model demonstrate a 72-hour turnover in the proposed tank. So, in February 2011, the model was revised and the demands were revised to match the average demand for the year 2010. Those demand values in the February 2011 analysis are based on the same data as the hydraulic analysis submitted with the application.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 49: Provide the District's actual usage totals for calendar years 2011, 2012, and 2013 broken down by usage at:

- (a) Clays Mill Road Meter #1;
- (b) Clays Mill Road Meter #2;
- (c) Keene Road #1; and
- (d) Keene Road #2.

Answer:

	CM #1	CM #2	KR #1	KR #2
Total Usage - 2011	245,154,750	2,983,000	273,525	241,725
Total Usage - 2012	260,430,000	4,152,750	82,425	66,300
Total Usage - 2013	206,423,250	3,499,275	89,400	41,175

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 50: Provide the current actual usage totals for calendar year

2014 broken down by usage at:

- (a) Clays Mill Road Meter #1;
- (b) Clays Mill Road Meter #2;
- (c) Keene Road #1; and
- (d) Keene Road #2.

Answer:

	CM #1	CM #2	KR #1	KR #2
Total Usage - 2014	178,326,750	3,001,725	72,950	40,425

[L. Nicholas Strong]

Jessamine-South Elkhorn Water District

Information Request No. 51: Refer to the Model that was submitted with the District's Application. How did the District determine that February 9, 2011 was "a representative sample of what is expected of from the hydraulic grade line provided to the Jessamine-South Elkhorn Water District pump station."

Answer: February 9, 2011 was chosen as a representative sample of what is expected in the hydraulic grade line provided to the JSEWD pump station for the hydraulic analysis submitted with the application. It was the same day that was selected with the February 2011 hydraulic analysis submitted with the previous PSC Case No. 2012-00470. This date was selected after comparing it to other days and determining it to have an average representation relative to other days considered.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 52: What date did the District use as a representative sample of what is expected of from the hydraulic grade line provided to the District's pump station in the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470?

Answer: As explained in the previous response, the February 9, 2011 hydraulic grade line was used in this case, as well as the February 2011 hydraulic analysis that was submitted in Case No. 2012-00470.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 53: Refer to the Model that was submitted with the District's Application. Describe fully and in detail how the demand factors were calculated, including all documents the District utilized.

Answer: The demand patterns used in the hydraulic analysis are based on engineering judgment over the course of employing 20-years' experience of modeling with Jessamine-South Elkhorn Water District. The basis for the original demand pattern was formed from the tutelage of Dr. Don Wood, the developer of KYPIPE software, as well as Dr. Paul Boulos who is an author referenced in the "Storage Analysis". The demand pattern for this analysis was shared with Dr. Wood and he concurred that it was of sound judgment.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 54: What demand factors did the District use in the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470?

(a) If any of the demand factors are different than those utilized in the hydraulic model in this case, describe fully and in detail the reason(s) for the change(s).

Answer: The demand pattern used in the hydraulic analysis dated February 2011 and submitted with Case No. 2012-00470 is the same demand pattern that is used in the current application

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 55: Refer to the Model that was submitted with the District's Application. How did the District select the initial volumes of water stored in the three tanks at the outset of the EPS?

Answer: The initial hydraulic grade of the three tanks in the hydraulic analysis was selected at 1165 which is roughly midway between the pump on and pump off control switches. Obviously, the tank level for any given day at any given time can and will vary, and cannot be predicted.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 56: Compare the Model that was submitted with the District's Application to the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470. Why do the initial volumes of water stored in the three tanks differ?

Answer: The initial hydraulic grade of the three tanks in the hydraulic analysis submitted with Case No. 2012-00470 was set at 1148 for Tanks A and C, because the switch grades for pump on and pump off ranged from 1140 (pump on) to 1154 (pump off). These switching grades were different because that analysis endeavored to demonstrate that what was then proposed (1,000,000 gallon tank) could be turned over in a 72-hour period during average daily demand by changing switch grades.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 57: Refer to the Model that was submitted with the District's Application. How did the District select the switching grades?

Answer: The switching grades for the analysis submitted with the current application were selected because they concur with the actual switch grades most commonly used by the District, currently.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 58: Why do certain of the switching grades in the Model submitted in this case differ from the switching grades in the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470?

Answer: As explained in the answer to No. 57, the switch grades in the model that was submitted in Case No. 2012-00470 were set to demonstrate that 100% of the tank volume could be turned over in a 72-hour period. The switch grades are raised for the 750,000 gallon proposed tank in the current application because the hydraulic analysis demonstrates that the entire tank volume is turned over in a 72-hour period.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 59: Refer to the Model that was submitted with the District's Application. How did the District select the diameter of the proposed tank?

Answer: The diameter of the proposed tank is based on correspondence with tank contractors, standard dimensions for the selected tank volume were used.

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

Information Request No. 60: List every input, assumption, and/or value selected by the District for use in the Model submitted in this case that differs from the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470. Explain fully and in detail the reason for each difference.

Answer: Input, assumptions, and or values that differ from the hydraulic analysis submitted with Case No. 2012-00470 and the current application, include the size of the tank and the elevations of the switching grades, as well as the initial hydraulic grade for the tanks. These are the only differences that I recall. Refer to responses to Nos. 55-59 for explanation of the reasons for the differences

[L. Christopher Horne]

Jessamine-South Elkhorn Water District

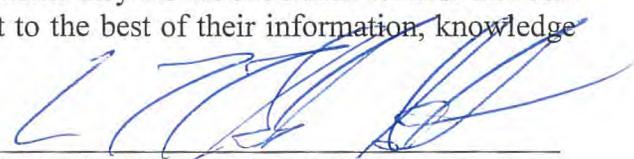
Information Request No. 61: Except for demand data, rerun and provide the results of the Model utilizing the exact inputs, assumptions, and/or values in the hydraulic model that was provided to the Commission on December 12, 2012 in Case No. 2012-00470.

Answer: See General Objections and object on the basis that the Request is unduly burdensome and will result in unjustifiable expense to the Water District. The Water District should not be subject to the compilation and analysis of data for Forest Hills.

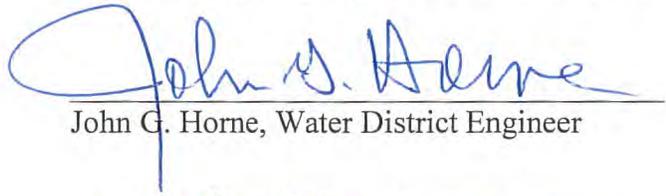
[Applicant's Counsel]

VERIFICATION

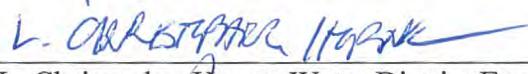
The undersigned being duly sworn, depose and say that they have personal knowledge of the matters set forth in the foregoing responses for which they are the identified witness and that the information contained therein is true and correct to the best of their information, knowledge and belief.



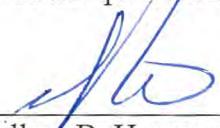
L. Nicholas Strong, Water District Chairman



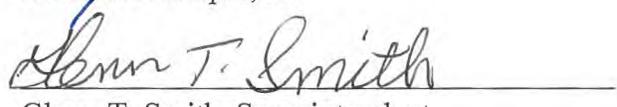
John G. Horne, Water District Engineer



L. Christopher Horne, Water District Engineer



Dallam B. Harper, Jr.



Glenn T. Smith, Superintendent

COMMONWEALTH OF KENTUCKY
COUNTY OF JESSAMINE, SCT...

Acknowledged, subscribed and sworn to me, a Notary Public in and before said County and State by L. Nicholas Strong, John G. Horne, L. Christopher Horne, Dallam B. Harper, Jr. and Glenn T. Smith this the 13 day of October, 2014.



NOTARY PUBLIC

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NO.

Respectfully submitted,

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Lexington, KY 40588

and

Bruce E. Smith, Esq.
Henry E. Smith, Esq.
201 South Main Street
Nicholasville, Kentucky 40356



CO-COUNSEL FOR DISTRICT

CERTIFICATE OF SERVICE

I hereby certify that the foregoing Jessamine-South Elkhorn Water District's Responses to Forest Hills Residents' Association, Inc.'s First Requests for Information with exhibits was served by first class mail, postage prepaid and by e-mail without exhibits, this the 15 day of October, 2014, to:

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