Project Planning Document

City of Kalamazoo FY 2024 Drinking Water Project Planning Document

Prepared for City of Kalamazoo

April 2023

2230314

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1 INTRODUCTION

The City of Kalamazoo (City) owns and operates a public water supply consisting of 90 active wells, ten storage tanks, and 13 pump stations, which serves approximately 100 square miles and is supplied through a water distribution network consisting of over 800 miles of watermain. The City has been in the process of identifying and replacing all lead or potential lead services in the City of Kalamazoo water system for the past several years. Pursuant with current State of Michigan requirements, the City has implemented a program to replace all the lead lines in their water system. There is also aging water main within the City's system that requires either lining or replacement. By completing a Water System Reliability Study and an Asset Management Plan, the City has prioritized the following water system improvements for completion in the next five years.

- a. Lead Service Line Replacements (FY2024-2029)
- b. Knollwood Water Main Lining Projects (FY2024)
- c. Water Main Replacement in Various Streets Project (FY2025)

The purpose of the Project Planning Document (PPD) is to determine the needs for the 20-year period, conduct alternatives analysis, estimate project costs, conduct environmental evaluations, and include the public in the planning process. This PPD is prepared on behalf of the City of Kalamazoo in Kalamazoo County, Michigan for the purpose of obtaining a Drinking Water State Revolving Fund (DWSRF) loan from the State of Michigan Department of Environment, Great Lakes, and Energy (EGLE) for the construction of improvements to the City of Kalamazoo water system.

2 BACKGROUND

2.1 Study Area

The extent of the project area is illustrated in Figure 1. The area is bounded on the east by Sprinkle Road and extends west along Stadium Drive and West Michigan Ave. The northern boundary is East Kalamazoo Avenue and the area extends south to Kilgore Road. All existing water services, suspected to potentially contain lead, will be material confirmed and replaced in the project area. Figure 1 illustrates the proposed multi-year project areas proposed for lead service replacement implementation.



2.2 Existing Environmental Evaluation

2.2.1 Cultural and Historic Resources

We have contacted all of the local Tribal Organizations who have confirmed there are no know cultural resources which may be impacted within the project areas. Copies of these correspondences are included in Appendix A.

A historical and environmental evaluation was performed by Orbis Environmental Consulting who is a State of Michigan approved consultant for this work. Their report of no impact is included in Appendix B.

2.2.2 Air Quality

There are no project activities which will affect air quality.

2.2.3 Wetlands

There is no project work proposed in wetland areas.

2.2.4 Great Lakes Shorelands, Coastal Zones, and Coastal Management Areas

There is no project work which will affect these areas.

2.2.5 Floodplains

Although some of the service replacements are within Kalamazoo River floodplain areas, no cut or fill activities are proposed so there will be no impact to the floodplain. Floodplain and project area are shown in Figure 2.

2.2.6 Natural or Wild and Scenic Rivers

There is no project work which will affect these areas.

2.2.7 Major Surface Waters

There is no project work which will affect either the Kalamazoo River or Portage Creek.

2.2.8 Topography

There are no proposed topographical changes in the project.



2.2.9 Geology

There are no proposed changes to local geology nor is any dewatering anticipated.

2.2.10 Soil Types

Local soils consist primarily of sand and gravels. No import or export of native material is anticipated.

2.2.11 Agricultural Resources

All of the proposed water services will be placed within existing road right-of-way and will not impact any adjacent farmlands.

2.2.12 Fauna and Flora

The proposed project work is within and directly adjacent to existing road right-of-way and will not impact fauna or flora within the project areas. Although the habitats of the Indiana bat (endangered) and the Northern long-eared bat (threatened) have the potential to be encountered as they typically roost under bark or in crevices in trees, no tree removals or trimming are planned as part of the project. If tree removal or trimming is required, it will be performed between October 15 and March 31.

2.3 Existing System

The Kalamazoo water system has approximately 43,376 Residential Equivalent Units currently served. In review of current system records, approximately 12,000 potential non-copper water services were identified. The City of Kalamazoo has either replaced, or is in the process of replacing, approximately 4,000 of those services. The proposed project will complete the replacement of the remaining 8,000 non-copper water services. A full summary and analysis of the Kalamazoo water system is available in the 2016 Water Reliability Study. Additionally, the system is working to identify existing cast iron water mains which do not have a cement mortar lining and where tuberculation is discoloring the water and causing water quality concerns or high break history.



2.4 Summary of Project Needs

2.4.1 Standards Compliance and Reliability

The City of Kalamazoo water system is currently in compliance with all drinking water standards and has the capacity to serve the affected area. However, the water service replacements are needed to meet the requirements of the State of Michigan Lead and Copper Rule. Additionally, the water main lining will address water quality concerns.

2.4.2 Orders of Enforcement Action

The City of Kalamazoo is working with the State of Michigan on meeting the requirements of a current Administrative Consent Order dated December 3, 2020.

2.4.3 Drinking Water Quality Problems

The proposed project is required to provide potable water, free of lead, to the City of Kalamazoo residents in the affected areas. The number of service lines requiring replacement are summarized as follows:

Fiscal Year	2024	2025	2026	2027	2028
Services	2,500	1,700	1,500	1,200	1,100

2.5 Projected Needs for the Next 20 Years

The area is currently nearly fully developed and land use is not expected to change. A comprehensive review of the current and future needs can be found in the 2016 City of Kalamazoo Water Reliability Study.

3 ANALYSIS OF ALTERNATIVES

3.1 Lead Service Line Replacements

The City has prioritized the need for replacement of existing lead service lines as required in the SDWA. Below is an evaluation of alternatives to fulfill this project need.

3.1.1 Regionalization

The City of Kalamazoo is the regional water provider and will continue to be in the future. No other regional alternatives exist.

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3.1.2 Replacement

The proposed project will replace existing water services as required for compliance with the State of Michigan Lead and Copper Rule.

3.1.3 Monetary Evaluation

The proposed project will replace existing water services as required for compliance with the State of Michigan Lead and Copper Rule. No alternative evaluation is required.

3.1.4 Environmental Evaluation

The proposed project will replace existing water services as required for compliance with the State of Michigan Lead and Copper Rule. The service replacements will be completed using trenchless technology which is the least intrusive method and causes the least amount of surface impact.

3.2 Knollwood Water Main Lining Projects

3.2.1 No Action

The existing water mains proposed for relining are of sufficient diameter to meet the desired water demands and there are currently recorded water main breaks in the project area so the water main must be either replaced or lined. Interior tuberculation has decreased the aesthetic quality of the potable water. No action will not address the future structural needs or the water quality concerns of the local residents.

3.2.2 Optimum Performance of Existing System

There are no options for increased optimization of the existing system.

3.2.3 Regionalization

The City of Kalamazoo is the regional water provider and will continue to be in the future. No other regional alternatives exist.

3.2.4 Monetary Evaluation

The only alternative to lining the water mains is full replacement which, because it requires significant surface restoration, is estimated at three to five times more expensive than in-situ lining in this case. Because the existing water mains are adequately sized, lining is a more cost effective option than replacement.

3.2.5 Environmental Evaluation

The proposed water main lining will be completed using trenchless technology which is the least intrusive method and causes the least amount of surface impact of all the available improvement methods.

3.2.6 Technical Considerations

3.2.6.1 Cured-In-Place Piping

The CIPP lining is a joint-less, seam-less tube that is bonded to the existing pipe using resin. This method required limited excavation.

3.2.6.2 Pipe Bursting

Pipe bursting passes the new pipe through the existing piping, "bursting" the existing pipe in the process. Launching and receiving pits need to be dug and laterals need to be re-instated. This method requires significant surface restoration for reconnection of the service laterals.

3.2.6.3 Full Replacement

Full replacement of the water main will require significant excavation and surface disruption/restoration.

4 SELECTED ALTERNATIVE

4.1 Lead Service Line Replacements

4.1.1 Design Parameters

Number of non-copper water services proposed for replacement:

Fiscal Year	2024	2025	2026	2027	2028
Services	2,500	1,700	1,500	1,200	1,100

4.1.2 Useful Life

The new copper water services are expected to have a useful life of 75 years.

4.1.3 Schedule for Design and Construction

Final service replacement address lists will be completed in the fall of each year for bidding with service replacement to take place in the beginning of the following year in accordance with the replacement schedule noted in Section 4.1.1.

4.1.4 Project and User Costs

Appendix C contains a detailed cost estimate for the proposed water system improvements (both Lead Service Line replacement and water main lining). The estimated \$20,500,000 dollar project costs for FY 2024 includes both construction costs and construction administration/inspection costs.

If the estimated DWRF loan is \$20,500,000 with an estimated 1.875 % interest rate for a 20 year period, the expected annual debt service for the proposed project based on the DWRF loan criteria will be approximately \$610,300 per year.

The City typically bases its cost allocations on a Residential Equivalent Unit (REU). One REU is the designation given to a single family residential household which has an average water use of approximately 250 gallons per day and a water meter size of 1-inch. For businesses or industries with larger meters, the number of Residential Equivalent units is calculated based on the meter size serving that entity. The larger the meter, the larger the

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number of equivalent units assigned to that meter. The assigned REU is directly proportional to the larger meter's capacity as compared to the capacity of a residential meter.

With the current number of approximately 42,376 REU, there will be a usage cost increase of approximately \$14.40 per year per REU.

4.2 Knollwood Water Main Lining

4.2.1 Design Parameters

The selected alternative should restore the original flow capacity of the existing water mains and improve local water quality.

4.2.2 Useful Life

For asset Management purposes, the water main liner is expected to provide a 75 year life cycle.

4.2.3 Schedule for Design and Construction

The lining project is scheduled to be bid in fall of 2023 and implemented during the 2024 construction season.

4.2.4 Cost Summary

Estimated project costs are included in Appendix C. User rate impacts are indicated in Section 4.1.4 of this report.

4.2.5 Implementability

There are no physical, legal, or managerial issues which will prevent or affect the implementation of the proposed water main lining.

5 Environmental and Public Health Impacts

5.1 Direct, Indirect, and Cumulative Impacts

5.1.1 Social/Economic Impact

The proposed projects will have a massively positive impact on the economics of the project area. Residents with services affected by high levels of lead have been recommended to not utilize the water for drinking or food preparation/canning. Given the multiple impacts of lead on humans and other organisms, there is an atmosphere of fear which reduced the current quality of life in the area and is potentially affecting property values. The proposed installation of copper water services and connection to a reliable, safe potable water supply will significantly reduce or eliminate the current social and economic impacts of the lead contamination. Additionally, the water main lining will have a direct, positive impact on the perceived water quality in the municipal system as it will eliminate the impacts of the water main tuberculation.

5.1.2 Construction/Operational Impact

5.1.2.1 Natural and Man-made Features

The proposed water service installations will either follow the path of the existing service or be directly adjacent to the existing service. The service paths are previously disturbed space and efforts will be taken during design and construction to minimize construction impacts. The water main lining will not affect any existing features.

5.1.2.2 Contamination

It is not anticipated that contamination will affect the construction of the proposed project as all work will be within existing utility corridors and utilize primarily trenchless technology.

5.2 Indirect Impacts

No long-term impacts to the environment are anticipated.

5.3 Other impacts

Once construction is completed, there are no anticipated permanent, detrimental impacts to the community.

6 MITIGATION

6.1 Short Term Construction Related Mitigation

Standard procedures used in the construction industry will be included in the construction contract documents to mitigate construction activities.

6.1.1 Traffic Disruption

The proposed projects are located in road rights-of-way where streets and driveways will be impacted. All components of the project will be coordinated carefully with residences and businesses in the area, and construction methods will be selected to minimize disruptions.

Standard traffic and safety control devices such as barricades and lighted barrels will be in place to warn and protect residents during construction activities.

6.1.2 Dust and Noise

Given the use of trenchless installation techniques, no dust control is anticipated. All public roadways will be maintained to assure residents access to the area. Construction equipment will be maintained in good condition to decrease noise.

6.1.3 Soil Erosion

Given the use of trenchless installation techniques, no dust control is anticipated. All public roadways will be maintained to assure residents access to the area. Construction equipment will be maintained in good condition to decrease noise.

6.1.4 Water Service Disruption

During construction of new water services and connection to home water systems, drinking water will be provided to the residents and connection to the municipal system made as quickly as possible.

6.1.5 Potential Loss of Wildlife / Habitat

Given the potential for tree removal within the road right-of-way, tree removal can be limited to the time periods between October 1 and March 31, in order to protect young bats that are not able to fly. If tree cutting is performed outside of this season, surveys of the trees will be performed in order to determine whether they are roost trees for the endangered Indiana bat or the threatened Northern long-eared bat. No other habitat impacts are anticipated.

7 Public Participation

As noted in the Project Need section, the proposed project work is in response to discovered lead contamination. The scope of the proposed project is based on the current testing data available and the public input received to date.

7.1 Public Meetings

A public meeting was held at a regular meeting of the City of Kalamazoo City Commission on April 17, 2023.

7.1.1 Public Meeting Advertisement

A Notice of Public meeting was published prior to the Public Meeting. The Project Planning Document was posted on the city's website. The city received no comments or questions during the public advertisement period. A copy of the Meeting Notice is included in Appendix D.

7.1.2 Public Meeting Summary

A presentation was given by the City of Kalamazoo staff during which a description of the DWSRF program and general comments on the Project Planning Document were presented. It was noted that the Project Planning Document contained cost estimates for projects and potential impacts. The Public Meeting summary is provided in Appendix E.

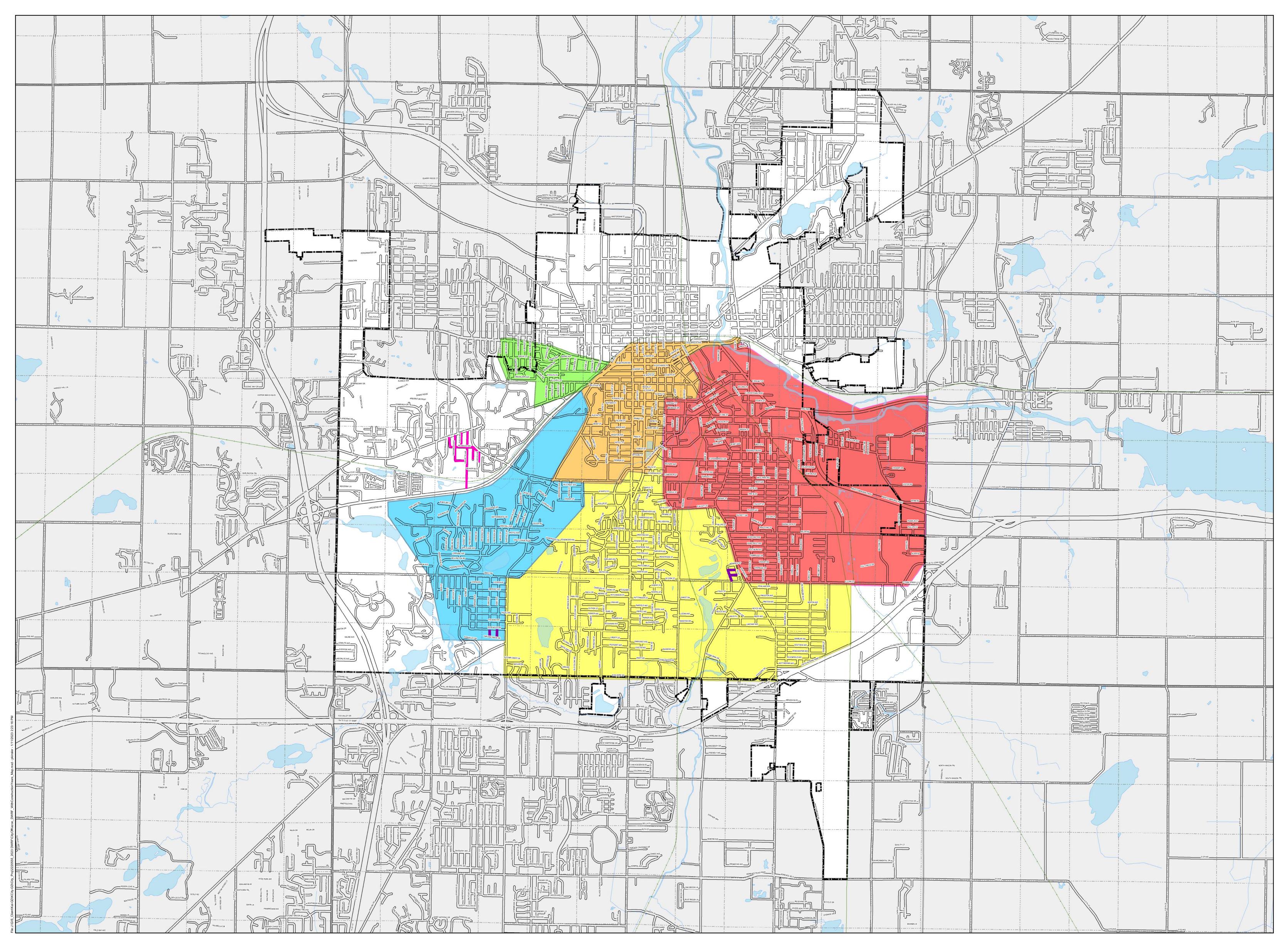
7.2 Adoption of Project Planning Document

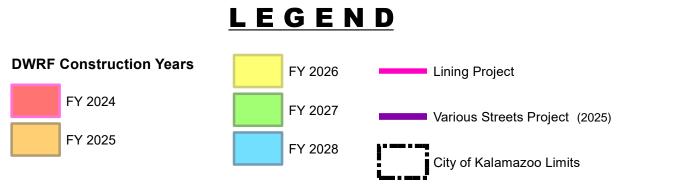
On Monday, April 17, 2023, the City of Kalamazoo City Commission passed a resolution adopting the Project Planning Document. A copy of the signed resolution is provided in Appendix F.

Figures

- Figure 1 Map of Proposed Project Areas
- Figure 2 Floodplain and Project Area

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1,000 2,000 4,000 6,000 Feet Scale: 1" = 2,000' City of Kalamazoo Kalamazoo County, Michigan

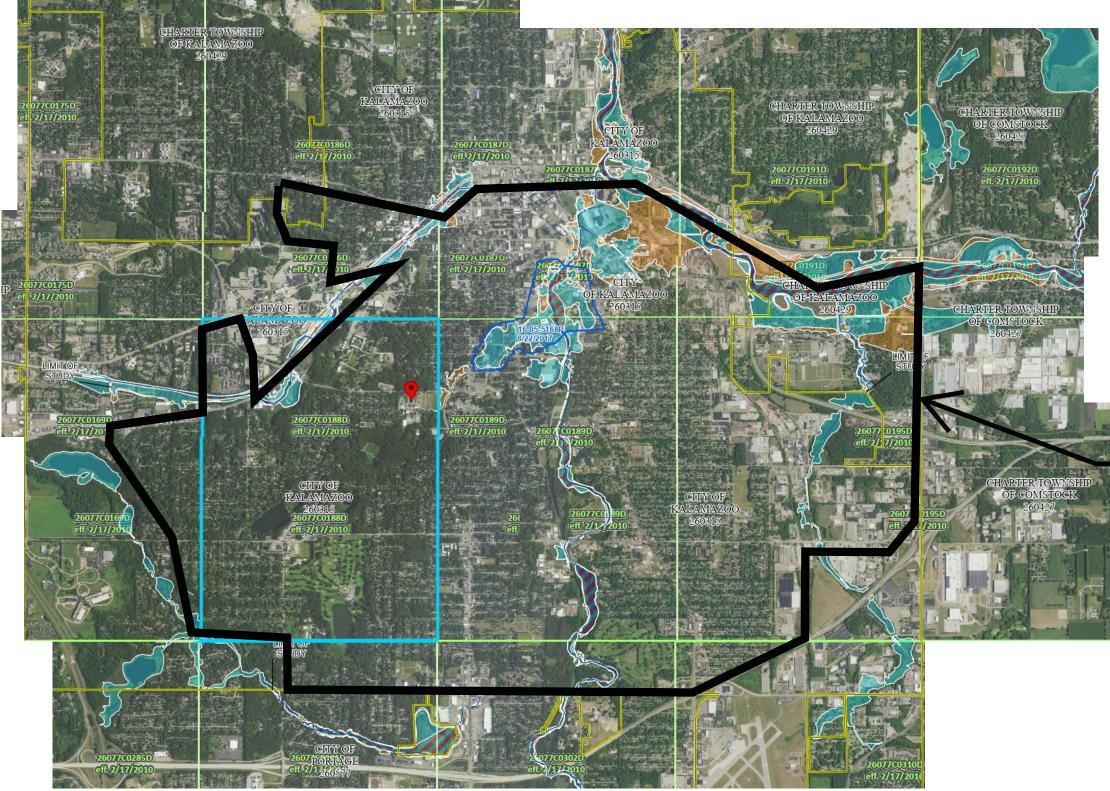
Water Distribution System

DWRF Construction Year Map

Prein&Newhof

January 2023 2220555

Figure 2 Floodplain and Project Area





Project Area

Appendix A

THPO Review





March 10, 2023 2230314

Match-E-Be-Nash-Shee-Wish Band of Pottawatomi Indians2872 Mission DriveShelbyville, MI 49344Iakota.pochedley@glt-nsn.govkaila.akina@glt-nsn.govshawn.mckenney@glt-nsn.govR

This correspondence was duplicated and sent to all of the potentially affected tribal organizations. Responses are pending as of March, 31, 2023.

RE: Notice and Opportunity to Comment City of Kalamazoo Lead Service Line Replacement

Lakota/Kaila/Shawn:

On behalf of the City of Kalamazoo, we are submitting the information noted below for the City of Kalamazoo Non-copper Service Line Replacement Project for which we are completing a Section 106 review. This is required as part of the environmental review process associated with a State of Michigan Drinking Water State Revolving Fund (DWSRF) project. The City will be using the DWSRF funds to replace non-copper water services in various locations throughout the City.

In a similar 2019 and 2022 submittal to you, the currently developed neighborhoods in the City of Kalamazoo and parts of Kalamazoo Township were cleared for service replacement. We are proposing to expand the project area to cover replacement within Sections 17, 23, 24, and 25 in Township 2 South, Range 11 West. The work will be limited to replacing existing non-copper water services from the water main into the homes, so it will only involve the disturbance of the surface area directly over the existing services.

We would appreciate your response within 30 days of this request, so that we might include the correspondence with the environmental application submittal and have time to respond to any questions you might have.

We appreciate your time to review this matter. If you need any additional information to complete your review, please feel free to contact me at (269) 372-1158, rrussell@preinnewhof.com.

Sincerely,

Prein&Newhof

Ay aunt

Ryan Russell, P.E.

JMD:rmr:dlj

Enclosure: Project Location Maps

Tribal Contact List

The following Tribal email addresses should be included in the CE/FNSI Notice of Public Comment Period transmittal email when a project will take place in the following counties in the state of Michigan: Allegan, Barry, Berrien, Branch, Calhoun, Cass, Hillsdale, Ionia, Jackson, Kalamazoo, Kent, Ottawa, St. Joseph, and Van Buren counties. Please include the following Tribal email addresses:

Molly Meshigaud	Cory Sagataw	Michael Schuster	
Molly.Meshigaud@hannahville.org	csagataw@hicservices.org	mschuster@hicservices.org	
Jay Sam	Frank Beaver	Lakota Pochedley	
<u>jonniesam@lrboi-nsn.gov</u>	williambeaver@lrboi-nsn.gov	Lakota.Pochedley@glt-nsn.gov	
Kaila Akina	Shawn Mckenney	Douglas Taylor	
<u>Kaila.Akina@glt-nsn.gov</u>	Shawn.mckenney@glt-nsn.gov	Douglas.Taylor@nhbp-nsn.gov	
John Rodwan	Matthew Bussler	Jennifer Kanine	
john.rodwan@nhbp-nsn.gov	Matthew.Bussler@pokagonband-nsn.gov	Jennifer.Kanine@pokagonband-nsn.gov	



February 25, 2022 2180551

Hannahville Potawatomi Indian Community N-14911 Hannahville B-1 Road Wilson, MI 49896 mschuster@hicservices.org This correspondence was duplicated and sent to all of the potentially affected tribal organizations.

RE: Notice and Opportunity to Comment

City of Kalamazoo Lead Service Line Replacement

Mr. Mike Schuster,

On behalf of the City of Kalamazoo, we are submitting the information noted below for the City Kalamazoo Non-copper Service Line Replacement Project for which we are completing a Section 106 review. This is required as part of the environmental review process associated with a State of Michigan Drinking Water Revolving Fund (DWRF) project. The City will be using the DWRF funds to replace non-copper water services in various locations throughout the City.

In a similar 2019 submittal to you, the following areas were cleared for service replacement work: City of Kalamazoo and Kalamazoo Township, Town 02S, Range 11W, and Sections 11,12,13,14, and 15. We are proposing to expand the project area to cover all the currently developed neighborhoods in the City of Kalamazoo. The work will be limited to replacing existing non-copper water services from the water main into the homes so will only involve disturbance of the surface area directly over the existing services.

We would appreciate your response within 30 days of this request for environmental review so that we might include the correspondence with the environmental application submittal and have time to respond to any questions you may have.

We appreciate your time to review this matter. If you need any additional information in order to complete your review, please feel free to contact me at (616) 364-8491.

Sincerely,

Prein&Newhof

Juan & Vilmont

Brian G. Vilmont, P.E.

BGV

Brian Vilmont

From:	Mike Schuster <mschuster@hicservices.org></mschuster@hicservices.org>			
Sent:	Monday, February 28, 2022 1:06 PM			
То:	Brian Vilmont			
Subject:	[External] Re: City of Kalamazoo Lead Service Line Replacement			

Caution: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. When in doubt, contact your IT Department.

Hi Brian, we won't be requiring any more correspondence on this project. Thank you for notifying us of your project.

Mike Schuster Environmental coordinator Hannahville Indian Community

From: Brian Vilmont <bvilmont@preinnewhof.com>
Sent: Friday, February 25, 2022 1:49 PM
To: Mike Schuster <mschuster@hicservices.org>
Subject: City of Kalamazoo Lead Service Line Replacement

Good afternoon Mr. Schuster,

Please see attached letter requesting your review of the City of Kalamazoo Lead Service Line Replacement project. Please let me know if you have any questions or need additional information. Thank you and have a good weekend. Brian

Brian Vilmont, P.E. Prein&Newhof t. 616-364-8491 Ext. 1108 c. 616-250-2486 Website | Blog | LinkedIn



2872 Mission Drive, Shelbyville, MI 49344 | {p} 269.397.1780 | gunlaketribe-nsn.gov

April 19, 2022

Brian G. Vilmont Prein & Newhof 3355 Evergreen Drive Grand Rapids, MI 49512 bvilmont@preinnewhof.com

Re: THPO Response to consultation for the City of Kalamazoo Lead Service Line Replacement Project

Dear Mr. Vilmont:

As the Tribal Historic Preservation Officer (THPO), we have received your request for consultation regarding the proposed undertaking in Kalamazoo County, MI. We have not identified any information concerning the presence of any cultural resources significant to the Match-E-Be-Nash-She-Wish Band of Pottawatomi Indians (MBPI). This is not to say that such a site may not exist, just that this office does not have any available information for the area(s) at this time.

However, we request to be informed if the scope of the projects or Area of Potential Effect changes. In the event of a discovery of Native American artifacts, human remains, or funerary objects, we request to be notified within three (3) days. At that time, the Tribe will determine our participation in any further consultation.

We thank you for including the Match-E-Be-Nash-She-Wish Band of Pottawatomi Indians in your plans.

Sincerely,

Halita Pochiding

Lakota Pochedley THPO 2872 Mission Dr. Shelbyville, Michigan 49344 Lakota.pochedley@glt-nsn.gov Phone: (269) 397-1780

Brian Vilmont

From:	Douglas Taylor <douglas.taylor@nhbp-nsn.gov></douglas.taylor@nhbp-nsn.gov>			
Sent:	Tuesday, March 1, 2022 9:48 AM			
То:	Brian Vilmont			
Subject:	[External] RE: City of Kalamazoo Lead Service Line Replacement			

Caution: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. When in doubt, contact your IT Department.

Greetings Mr. Vilmont,

Ref: City of Kalamazoo Lead Service Line Replacement

Thank you for including the Nottawaseppi Huron Band of the Potawatomi in your consultation process. From the description of your proposed project, it does not appear as if any cultural or religious concerns of the Tribe's will be affected. We therefore have no objection to the project. Of course, if the project scope is significantly changed or inadvertent findings are discovered during the course of the project, please contact us for further consultation.

Very Respectfully Douglas R. Taylor

Douglas R. Taylor | Tribal Historic Preservation Officer (THPO) **Pine Creek Indian Reservation 1301 T Drive S, Fulton, MI 49052** o: 269-704-8347 | c: 269-419-9434 | f: 269-729-5920 Douglas.Taylor@nhbp-nsn.gov | https://link.edgepilot.com/s/1cac4440/RbU-k-F4Ik_r1HhY2_9F5Q?u=http://www.nhbp-nsn.gov/



Please consider the environment before printing this email. This message has been prepared on resources owned by the Nottawaseppi Huron Band of the Potawatomi located in the State of Michigan. It is subject to the Electronic Communications Policy of Nottawaseppi Huron Band of the Potawatomi. This communication may contain confidential (including "protected health information" as defined by HIPAA) or legally privileged information intended for the sole use of the designated recipient(s). If you are not the intended recipient, please notify the sender immediately by reply e-mail and delete all copies of this communication and attachments without reading or saving them. If you are not the named addressee you are notified that disclosing, disseminating, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited

From: Brian Vilmont
bvilmont@preinnewhof.com>
Sent: Friday, February 25, 2022 2:06 PM
To: Douglas Taylor <Douglas.Taylor@nhbp-nsn.gov>
Subject: City of Kalamazoo Lead Service Line Replacement

*** EXTERNAL EMAIL WARNING - USE CAUTION ***

Good afternoon Mr. Taylor,

Please see attached letter requesting your review of the City of Kalamazoo Lead Service Line Replacement project. Please let me know if you have any questions or need additional information. Thank you and have a good weekend. Brian

Brian Vilmont, P.E. Prein&Newhof t. 616-364-8491 Ext. 1108 c. 616-250-2486 Website | Blog | LinkedIn



Pokégnek Bodéwadmik

POKAGON BAND OF POTAWATOMI HISTORY & CULTURE CENTER

03/23/2022

Brian Vilmont, P.E. Prein&Newhof t. 616-364-8491 Ext. 1108 c. 616-250-2486 bvilmont@preinnewhof.com

City of Kalamazoo Lead Service Line Replacement

Dear Responsible Party:

Migwetth for contacting me regarding this project. As THPO, I am responsible for handling Section 106 Consultations on behalf of the tribe. I am writing to inform you that I have reviewed the details for the project referenced above. The proposed work is occurring within a mile of known archaeological sites, historic sites or features that are considered sensitive or recorded in the Pokagon Band Historic Inventory Database. I have made the determination that the project will have **No Adverse Effect** on any historic, religious, or culturally significant resources to the Pokagon Band of Potawatomi Indians.

If any cultural or archaeological resources are uncovered during construction, please stop work, and contact me immediately. Should you have any other questions, please don't hesitate to contact me at your earliest convenience.

Sincerely,

Matthe Bussler

Matthew J.N. Bussler Tribal Historic Preservation Officer Pokagon Band of Potawatomi Indians Office: (269) 462-4316 Cell: (269) 519-0838 Matthew.Bussler@Pokagonband-nsn.gov

59291 Indian Lake Road • PO Box 180 • Dowagiac, MI 49047 • www.PokagonBand-nsn.gov (269) 462-4325 • (800) 517-0777 toll free • (269) 783-2499 fax

SHPO Review

SHPO CLEARANCE DOCUMENTS ARE PENDING AND

WILL BE INCLUDED IN FINAL EGLE SUBMITTAL



Appendix C

Project Costs and Property Addresses

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CITY OF KALAMAZOO FY2024 COST ESTIMATE

Item	Description	Qty	Unit	Unit Price	Extended Price	
1	Mobilization	1	LS	\$ 150,000.00	\$ 150,000	
2	Water Service Potholing	2000	EA	\$ 375.00	\$ 750,000	
3	Water Service - Long	1000	EA	\$ 3,000.00	\$ 3,000,000	
4	Water Service - Short	1000	EA	\$ 2,000.00	\$ 2,000,000	
5	Water Service - Yard	2200	EA	\$ 1,800.00	\$ 3,960,000	
7	Ford Box	100	EA	\$ 1,700.00	\$ 170,000	
11	Abandon Blind	1000	EA	\$ 600.00	\$ 600,000	
12	Plumber	2300	HR	\$ 200.00	\$ 460,000	
13	Sidewalk Remove & Replace	40,000	SF	\$ 10.00	\$ 400,000	
14	Curb Remove & Replace	10,000	LF	\$ 35.00	\$ 350,000	
15	Road or Driveway Remove & Replace	21,000	SY	\$ 120.00	\$ 2,520,000	
17	HMA Driveway Remove & Replace	500	SY	\$ 100.00	\$ 50,000	
19	Traffic Control	1	LS	\$ 300,000.00	\$ 300,000	
20	Meter Setting	2200	EA	\$ 250.00	\$ 550,000	
21	Water Filter	2500	EA	\$ 55.00	\$ 137,500	
22	Water Main Lining	10,000	LF	\$ 200.00	\$ 2,000,000	
	Construction Subtotal					
	Design and Admin					
	PROJECT TOTAL					

SPECIFIC ADDRESS LIST TO BE ADDED PRIOR TO FINAL PROJECT PLAN SUBMITTAL TO EGLE

Appendix D

Public Meeting Notice



The City of Kalamazoo will present the Project Plan for the Fiscal Year 2024 Drinking Water Revolving Fund application for the purpose of receiving comments from interested persons.

The meeting will be held at the regular City Commission meeting scheduled for Monday, April 17, 2023 at 7 p.m. EST at City Hall, 241 W South Street, 49007.

The purpose of the proposed project is to remove lead services in the water system and improve water quality by replace non-copper water services in sections of the water system and place interior lining to extend the life cycle of several watermains.

The project will have temporary impacts to individual homes while their water service is replaced and water main is lined. There will also be temporary traffic impacts in the areas of work.

The estimate costs to water system customers is expected to be around \$3.60 per billing quarter.

The Project Plan document is available for viewing on the City website at www.kalamazoocity.org

Written comments received before the meeting is closed April 17, 2023 will receive responses in the final Project Plan. Written comments should be sent to:

Kalamazoo Public Service Department c/o Department Director 415 East Stockbridge Avenue Kalamazoo MI 49007

Public Meeting Summary

SUMMARY WILL BE COMPLETED AFTERMEETING AND

WILL BE INCLUDED IN FINAL EGLE SUBMITTAL



Appendix F

Project Plan Resolution

Prein&Newhof

CITY OF KALAMAZOO

RESOLUTION NO.

A RESOLUTION ADOPTING A FINAL PROJECT PLAN FOR WATER SYSTEM IMPROVEMENTS AND DESIGNATING AN AUTHORIZED PROJECT REPRESENTATIVE

Minutes of a regular meeting of the City Commission of the City held on April 17, 2023, at 7:00 o'clock p.m., local time, at City Hall.

PRESENT, Commissioners:

ABSENT, Commissioners:

WHEREAS, the City of Kalamazoo recognizes the need to make improvements to its existing water treatment and distribution system; and

WHEREAS, the City of Kalamazoo authorized Prein&Newhof, Inc. to prepare a Project Plan, which recommends the replacement of existing lead/galvanized water services and water main lining in the City of Kalamazoo Water System; and

WHEREAS, said Project Plan was presented at a Public Meeting held on April 17, 2023 and all public comments have been considered and addressed; and

NOW THEREFORE BE IT RESOLVED, that the City of Kalamazoo formally adopts said Project Plan and agrees to implement the replacement of existing lead/galvanized water services and water main lining in the City of Kalamazoo Water System.

BE IT FURTHER RESOLVED, that the City Engineer, a position currently held by James J. Baker, P.E., is designated as the authorized representative for all activities associated with the project referenced above, including the submittal of said Project Plan as the first step in applying to the State of Michigan for a Drinking Water Revolving Fund Loan to assist in the implementation of the selected alternative.

The above resolution was offered by ______ and supported by ______. Yeas:

Nays:

I certify that the above Resolution was adopted the City of Kalamazoo on April 17, 2023.

BY:

Name and Title (*please print or type*)

Signature

Date