Executive Summary

The Village of McConnelsville is located along the Muskingum River in Morgan County, Ohio, in the southeastern region of the state. The village has a combined stormwater and sanitary sewer system and wastewater treatment plant (WWTP) that serves a population of approximately 2,372. The existing sanitary sewer runs south along Kennebec Avenue, discharging into a pump station, which pumps wastewater to the WWTP. During wet weather, in flow in excess of the carrying capacity of the sewer system overflows into the Muskingum River. In addition, when the river water level increases, the river flows into the Combined Sewer Overflow (CSO) structure and floods the sewer system. The village of McConnelsville has recently submitted a Long Term Control Plan to the Ohio EPA which outlines the plan of action to implement the separation of the village's combined stormwater and sanitary sewer system.

The current project is the separation of combined sewers along Kennebec Avenue authroized by Section 594 of the Water Resources Development Act (WRDA) of 1999, (Public Law 106-53) as amended. This would be accomplished by using existing sanitary sewers for wastewater flow and constructing new storm sewers to handle the stormwater flow.

Since the project would take place in easements currently used for combined sewers, there are no significant impacts expected from the proposed project. Best management practices would be used during construction to minimize sediment and erosion during construction, and there would be no significant negative impacts to water quality. There would be beneficial effects from reduced sewage overflow into the Muskingum River. There would be no impact expected to Threatened or Endangered Species, since no suitable habitat for relevant species exists in the project site. McConnelsville is considered a historic district and listed on the National Register of Historic Places. The National Register recognizes the residential and commercial architecture representative of rural Ohio in the 19th century. However, since the proposed project would be located in the street right of way, with many existing utilities already located in these areas, it is unlikely to have a significant impact on existing archaeological resources. Based upon this review, no significant adverse impacts would result with separation of the Kennebec Avenue combined stormwater and sanitary sewer system. However, future separation projects may require further investigation to assess environmental impacts on historical resources.

7.0 SCHEDULE FOR FUTURE PROJECTS

Section 3 of this report identifies wastewater system improvement projects recently completed and currently implemented by the Village. It further outlines projects that will be implemented in the future, which will result in the construction of new storm sewers and, thus, the separation of the combined sewers. Since the results of the Financial Capability Assessment indicate that a "High Burden" will be placed upon the Village's wastewater customers, the Village initially proposed a schedule slightly exceeding 20 years for the implementation of the Long-Term Control Plan. However, as a result of negotiations and discussions with the Ohio EPA, the Village has agreed to a schedule of eleven years for the full implementation of the Plan. The schedule is presented below:

- *Kennebec Avenue West and Seventh Street, Phase III.* This project is to be completed by December 31, 2011. To accomplish this goal, the design of the proposed improvements should be completed by the end of 2010.

- *Eighth Street Project, Phase IV.* This project is to be completed by December 31, 2015. To accomplish this goal, the design of the proposed improvements should be completed by the end of 2014.

- *Tenth Street Project, Phase V.* This Project is to be completed by December 31, 2017. To accomplish this goal, the design of the proposed improvements should be completed by the end of 2016.

CSO outlet improvements necessary to reduce the backflow of the Muskingum River into the wastewater system will be completed with the grant funds received from the U.S. Army Corps of Engineers. The balance of the remaining grant funds will be utilized to complete as much of the Kennebec Avenue project (Phase II) as possible. The CSO outlet improvements and the Kennebec Avenue project (Phase II) will be completed by the end of 2008. However, if the existing amount of funds is inadequate to complete the Kennebec Avenue project (Phase II), then the remaining balance of that project will be completed by the end of 2009.

8.0 RECOMMENDATIONS

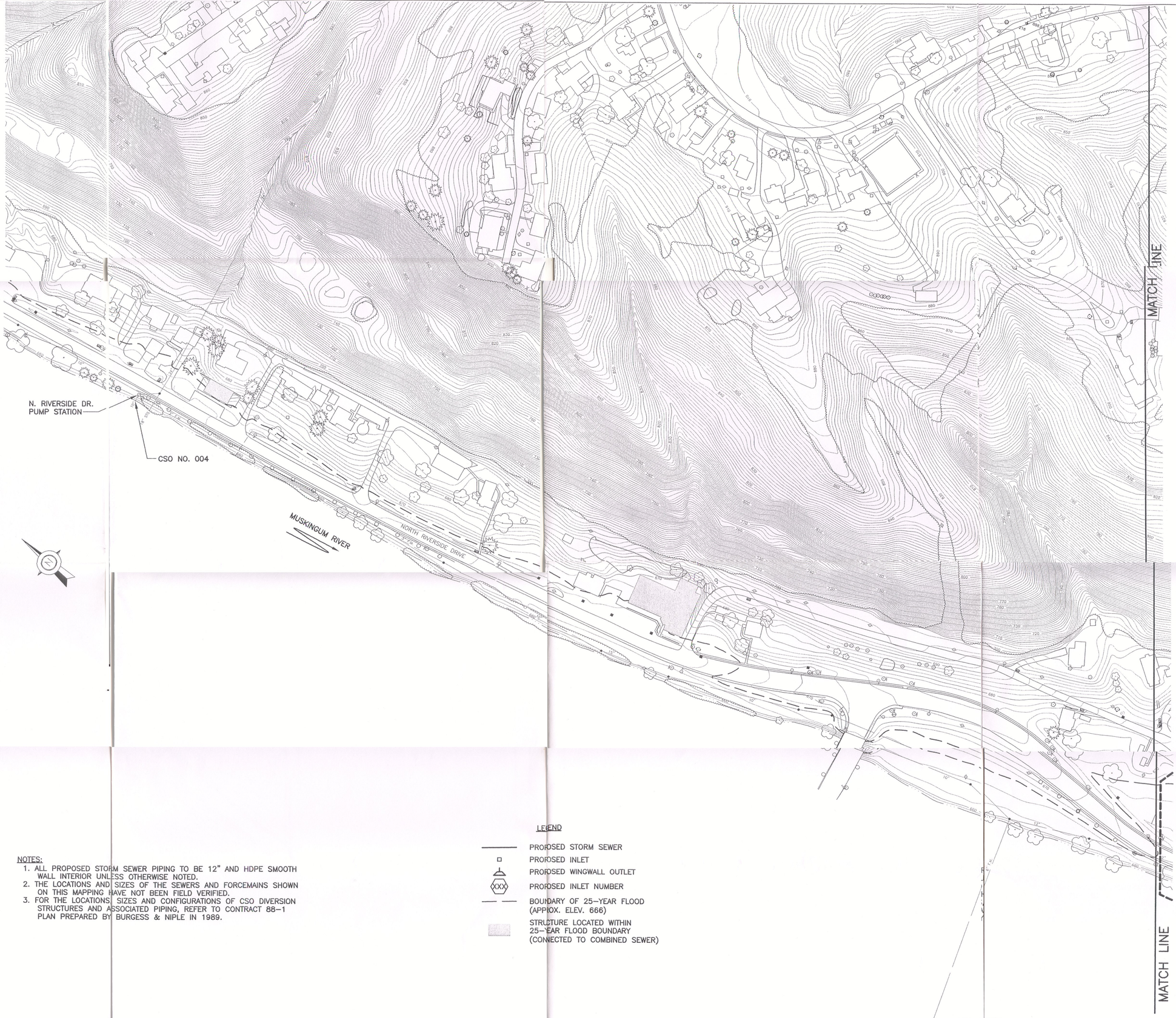
It is recommended that the following should be performed to provide assurance to the Ohio EPA that the Village is striving to attain compliance with the CSO Control Policy:

- Complete the sewer separation projects and CSO outlet improvements as described herein and in accordance with the schedule outline in Section 7.0.

- Continue to improve implementation of the Nine Minimum Controls as discussed in Section 4.

- Implement a public participation and notification program described in Section 5, which would provide the Village with opportunities to educate the public regarding the combined sewer system and the efforts undertaken and commitments made by the Village to improve the water quality of the Muskingum River.

The Village should continue its efforts to seek and obtain financing for all phases of the Long-Term Control Plan projects. The following Section of this report identifies potential sources of funding.



NOTES:

1. ALL PROPOSED STORM SEWER PIPING TO BE 12" AND HDPE SMOOTH WALL INTERIOR UNLESS OTHERWISE NOTED.
2. THE LOCATIONS AND SIZES OF THE SEWERS AND FORCEMAINS SHOWN ON THIS MAPPING HAVE NOT BEEN FIELD VERIFIED.
3. FOR THE LOCATIONS, SIZES AND CONFIGURATIONS OF CSO DIVERSION STRUCTURES AND ASSOCIATED PIPING, REFER TO CONTRACT 88-1 PLAN PREPARED BY BURGESS & NIPLE IN 1989.

LEGEND

- PROPOSED STORM SEWER
- PROPOSED INLET
- PROPOSED WINGWALL OUTLET
- XXX PROPOSED INLET NUMBER
- BOUNDARY OF 25-YEAR FLOOD (APPROX. ELEV. 666)
- STRUCTURE LOCATED WITHIN 25-YEAR FLOOD BOUNDARY (CONNECTED TO COMBINED SEWER)

RECE
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Parkersburg, WV **BURGESS & NIPLE**

VILLAGE OF McCONNELSVILLE
PRELIMINARY LAYOUT OF
SEWER SEPARATION IMPROVEMENTS

Scale: 1" = 100'
Date: Sept 2007
Sheet No. 3 of 3

NOTES:

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KENNEBEC AVE. WEST SEWER SEPARATION PROJECT, PHASE III

KENNEBEC AVE. SEWER SEPARATION PROJECT, PHASE II

SEVENTH STREET SEWER SEPARATION PROJECT, PHASE III

EIGHTH STREET SEWER SEPARATION PROJECT, PHASE IV

MATCH LINE

MATCH LINE

CSO NO. 008

CSO NO. 009

CSO NO. 010

CSO NO. 011

CSO NO. 012

CSO NO. 013

CSO NO. 014

CSO NO. 015

CSO NO. 016

BOAT RAMP

FOURTH STREET LIFT STATION

EAGLE PARK

MUSKINGUM RIVER

LEGEND

- PROPOSED STORM SEWER
- PROPOSED INLET
- PROPOSED WINGWALL OUTLET
- XXX PROPOSED INLET NUMBER
- BOUNDARY OF 25-YEAR FLOOD (APPROX. ELEV. 666)
- STRUCTURE LOCATED WITHIN 25-YEAR FLOOD BOUNDARY (CONNECTED TO COMBINED SEWER) "B" INDICATES STRUCTURE WITH BASEMENT

VILLAGE OF McCONNELSVILLE

Scale: 1" = 100'
Date: Sept 2007
Sheet No. 2 of 3

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SCALE: 1" = 1
DATE:

MATCH LINE

MATCH LINE

MAIN STREET

BALL FIELD

UNION AVENUE

MAIN STREET

AVENUE

12TH STREET

MAIN STREET

18" McCONNEL STREET

10TH STREET

HALCYON AVENUE

MAIN AVENUE

10TH STREET

RIVERSIDE DRIVE

RIVERSIDE DRIVE

CEMETERY

CSO NO. 017

MUSKINGUM RIVER

TENTH STREET SEWER
SEPARATION PROJECT, PHASE IV

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Scale: 1" = 100'
Date: Sept 2007
Sheet No. 1 of 3

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Southeast District

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VILLAGE OF McCONNELSVILLE
PRELIMINARY LAYOUT OF
SEWER SEPARATION IMPROVEMENTS