



<u>LTCP Project Number:</u> L\_MI\_MF\_206\_S\_08\_A\_A\_0

**Project Name:** CSO206 Sewer Separation

**Project Type:** Sewer Separation

Receiving Stream: Middle Fork Beargrass Creek

**Project Description:** This project is to complete sewer separation by disconnecting downspouts from approximately 931 properties.

<u>Design Parameters /</u> Existing system consists of both storm and sanitary sewers with common manholes. CSO discharges in

Assumptions: Cherokee Park.

Surrounding Area Land Use:

Apparent Utilities

Description:

<u>Apparent Utilities</u> PROJECT IN PROGRESS

Capital Projects: PROJECT IN PROGRESS

Advanced Site

**Restoration:** 

N/A

**Estimated Capital Cost** 

(2008):

\$3,842,000

**PROJECT IN PROGRESS** 

Capital Cost / Gallon

**Overflow Removed:** 

N/A

Weighted Benefit / Cost

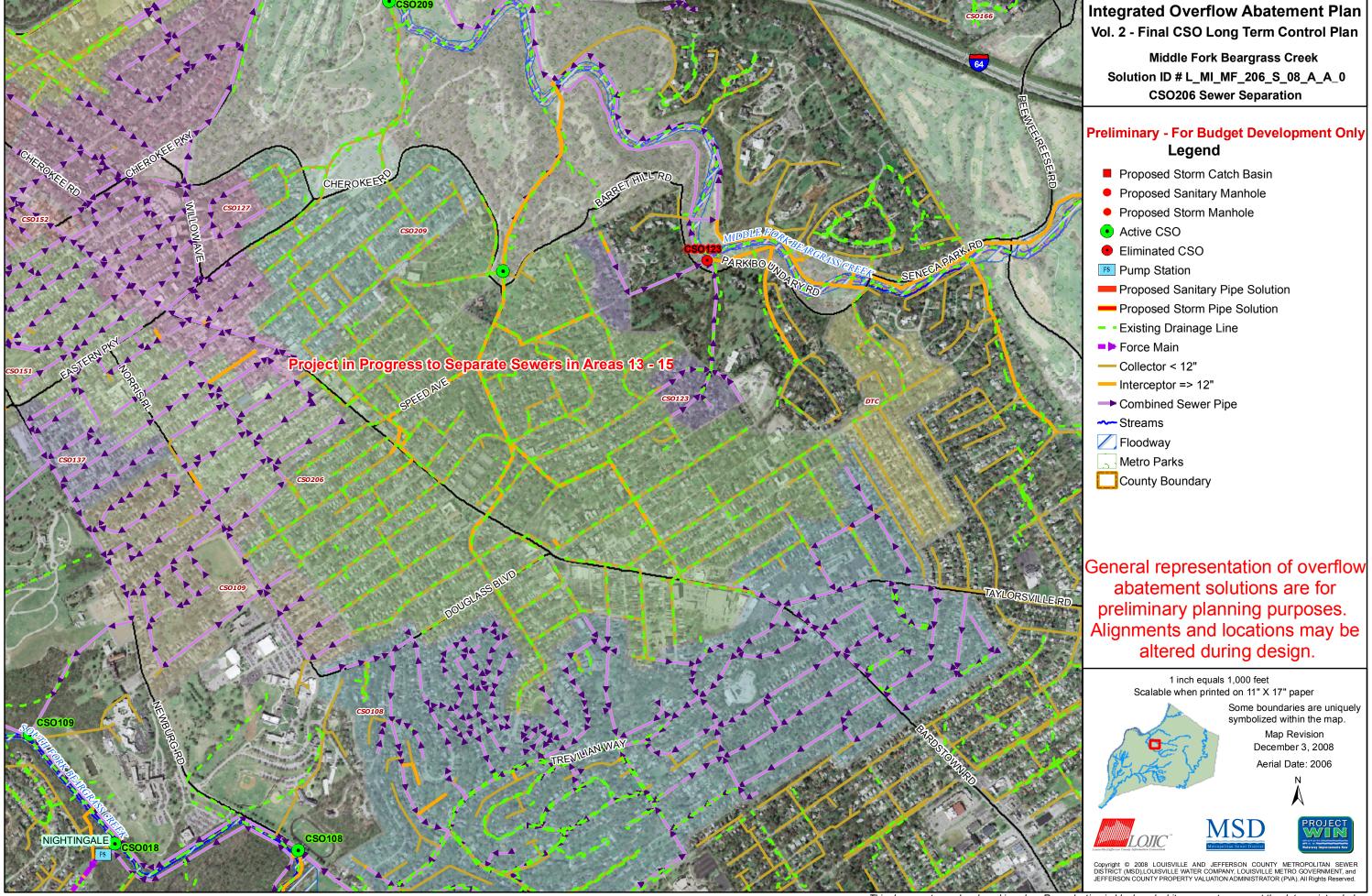
**Ratio (Capital Cost):** 

N/A

Overflow Points Addressed:				<u># of</u>	Post LTCP	Post LTCP #
		CSO Area	2008 AAOV	<u>Overflows</u>	AAOV	Overflows /
CSO Number	CSO Name	(Acres)	<u>(MG / Yr)</u>	<u>/ Yr</u>	(MG/Yr)	<u>Year</u>
CSO206	Cherokee Park @ Spring Drive	464.64	19.91	52	0	0

 ${\it NOTE: CSO\ hydraulic\ statistics\ are\ predicted\ based\ on\ InfoWorks\ model\ results}.$ 

Report Print Date: 5/19/2009 SOURCE: O'Brien and Gere, 2008 Page 1 of 1







LTCP Project Number: L\_MI\_MF\_127\_M\_09B\_B\_A\_8

**Project Name:** I-64 and Grinstead Drive Storage Basin

Off-Line Storage **Project Type:** 

Middle Fork Beargrass Creek **Receiving Stream:** 

**Project Description:** This project is to provide a 2.74 MG off-line storage facility consisting of a covered concrete basin for CSO125,

126, 127 & 166 to reduced overflows to 8 overflows per year. The facility will be a gravity in-gravity out

operation.

<u>Design Parameters /</u>

**Assumptions:** 

Basins are designed to the 9th overflow event volume, resulting in 8 CSO overflows/year. The 9th peak flowrate is evaluated to compare gravity vs. pumped conveyance. Design for pump-back is 24 hours. Type of basin based

on hydraulics and surroundings.

**Surrounding Area** 

**Land Use:** 

Project is located within 'Vacant and Undeveloped' property, close to the I-64 right of way and pedestrian bike route. Nearby land use includes commercial properties. Project is located North of a parking lot off of Lexington

**Apparent Utilities** 

**Description:** 

Prim. OH elec. In. passes through the SW corner of the proposed basin, secondary OH elec. In. < 60 ft. W of

proposed basin

**Capital Projects:** 2007~Central Region Automation FY05-06 - In progress; 2007~Central Region PS Modification - Under

Construction; 2007~Middle Fork Rehab Phase 2 & 2013~RTC @ CSO125, 126, 127, & 140 - Awaiting Start

**Advanced Site** 

**Restoration:** 

The area of the proposed tank is undeveloped green space. Current and previous public use or development proposals for these areas have identified potential environmental mitigations. The project budget includes a site

restoration allowance.

**Estimated Capital Cost** 

(2008):

\$12,950,000

Capital Cost / Gallon

**Overflow Removed:** 

\$0.24

Weighted Benefit / Cost

Ratio (Capital Cost):

36.26

Overflow Point	ts Addressed:	CCO A.v.o.	2000 4401/	# of	Post LTCP	Post LTCP #
CSO Number	CSO Name	<u>CSO Area</u> (Acres)	2008 AAOV (MG / Yr)	Overflows / Yr	<u>AAOV</u> (MG/Yr)	Overflows / Year
CSO125	Regulator Number 24 - Grinstead Drive	391.03	48.38	54	7.63	8
CSO126	Regulator Number 26 - Raymod Avenue	35.29	0.58	13	0.56	8
CSO127	Etley Avenue	192.26	4.62	21	1.07	8
CSO166	Beals Branch Sanitary Diversion	696.65	10.12	19	3.32	8

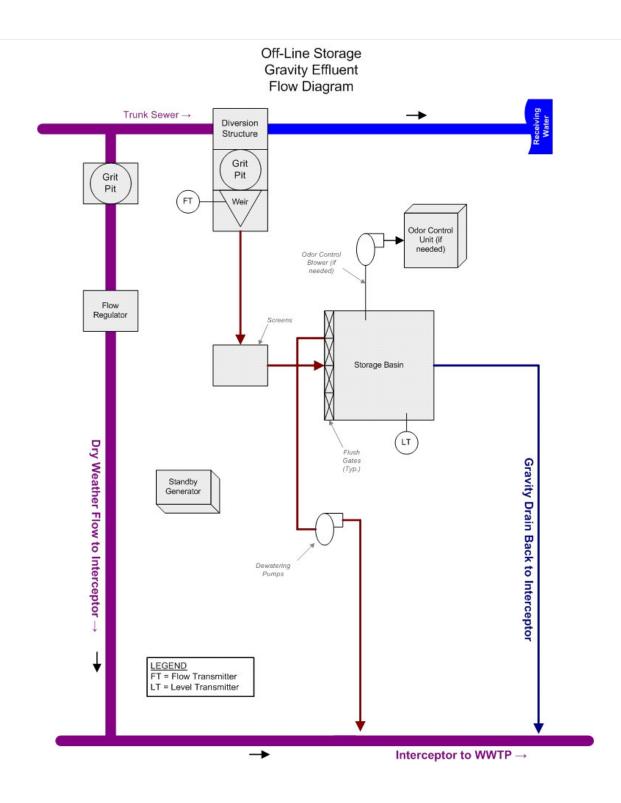
NOTE: CSO hydraulic statistics are predicted based on InfoWorks model results.

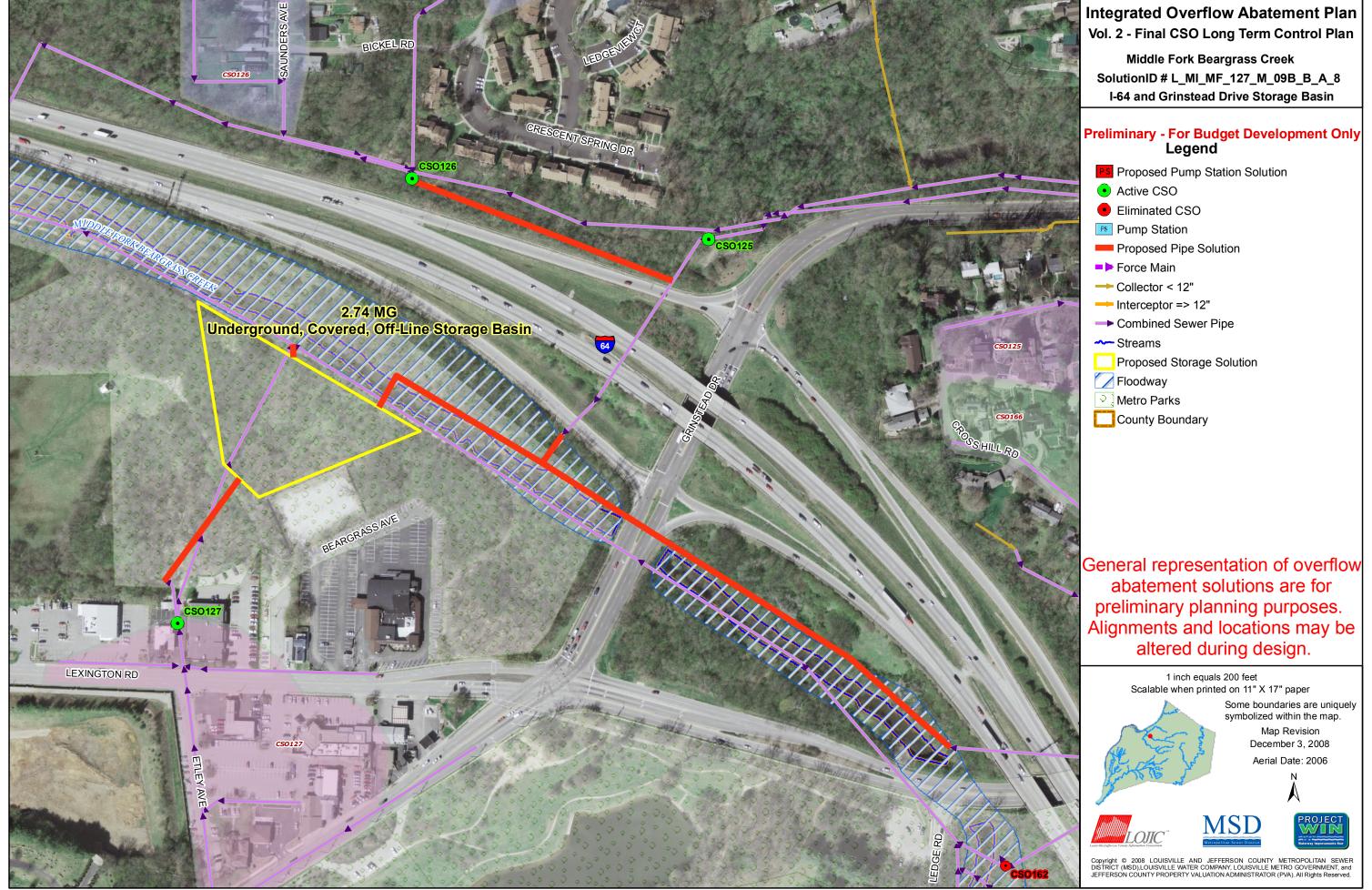
Page 1 of 2 Report Print Date: SOURCE: O'Brien and Gere. 2008 5/19/2009





L\_MI\_MF\_127\_M\_09B\_B\_A\_8









**LTCP Project Number:** L\_MI\_MF\_140\_S\_08\_A\_A\_0

CSO140 Sewer Separation **Project Name:** 

**Project Type: Sewer Separation** 

Middle Fork Beargrass Creek **Receiving Stream:** 

This project includes construction of a storm water system consisting of installing 4,630 lf of piep in street and **Project Description:** 

6,130 If of pie out of street.

Design Parameters /

**Assumptions:** 

There are approx. 552 properties impacted by this project. The design flow would be developed in accordance

with the MSD Design Manual.

**Surrounding Area** Project is located within 'Vacant & Undeveloped', 'Single Family Residential' and 'Multi Family Residential' **Land Use:** 

property east of I-65 at S. Charlton and Pope St. Adjacent property includes 'Public and Semi-Public' and 'Parks,

Cemeteries, etc.'.

**Apparent Utilities** 

**Description:** 

Water Main appr. 14.5 ft. SE, Scondary OH Elec. In. appr. 17 ft. SE, Existing Gas Main appr. 22 ft. NNW, proposed

piping passes over gas, electric, and water lines

2011~Solids & Floatables @ CSO86 & 140, 2007~Middle Fork Rehab Phase 2, & 2013~RTC @ CSO125, 126, 127, **Capital Projects:** 

& 140 - Awaiting Start

**Advanced Site** 

**Restoration:** 

The stormwater outfall to Beargrass Creek will include design of flow control measures to minimize or prevent

erosion impact to the receiving stream.

**Estimated Capital Cost** 

(2008):

\$3,150,000

Capital Cost / Gallon

**Overflow Removed:** 

\$0.29

Weighted Benefit / Cost

Ratio (Capital Cost):

21.00

Overflow Points Addressed:		CSO Area	2008 AAOV	<u># of</u> Overflows	Post LTCP AAOV	Post LTCP # Overflows /
CSO Number	CSO Name	(Acres)	(MG / Yr)	<u>/ Yr</u>	(MG/Yr)	<u>Year</u>
CSO140	Locust Street	75.54	17.00	54	0	0

NOTE: CSO hydraulic statistics are predicted based on InfoWorks model results.

Report Print Date: Page 1 of 1 SOURCE: O'Brien and Gere. 2008 5/19/2009

