



SSO SSDP Project Fact Sheet



SSO Project Number: S_MI_MF_NB06_M_01_A_A

Project Name: Anchor Estates PS Eliminations 1 - Vannah PS Elimination

Modeled Area: Middle Fork

Branch or SSO ID: MF06

Project Type: Diversion

Receiving Stream: Middle Fork Beargrass Creek

Project Description: This alternative includes 350 LF of 8-inch pipe at Vannah PS to eliminate the PS.

Reason for Overflow: Bypass Pipe at Vannah Way, Undersized Pumps at Anchor Estates #1 and #2.

Design Parameters / Assumptions: This solution is based on a 2.60 inch cloudburst rain event

Project Constraints: None at this time

Estimated Capital Cost (2008 dollars): \$59,000

Weighted Benefit/Cost Ratio (Present Worth): 31.14

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
00746	Manhole Adjacent to Anchor Estates PS #1	Morris Forman	Pumped	Ditch	10,762
01106	Vannah PS Wetwell Manhole	Morris Forman	Constructed	Catch basin	No Data
00056-W	Anchor Estates #1 Wetwell	Morris Forman	Manhole	Ground	11,929
MSD0057-LS	Anchor Estates #2	Morris Forman	Lift Station	Stream	14,519

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Middle Fork Sewershed




















Solution ID # S_MI_MF_NB06_M_01_A_A

Anchor Estates PS Eliminations 1

Vannah PS Elimination

Preliminary - For Budget Development Only

Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch equals 100 feet
Scalable when printed on 11" X 17" paper



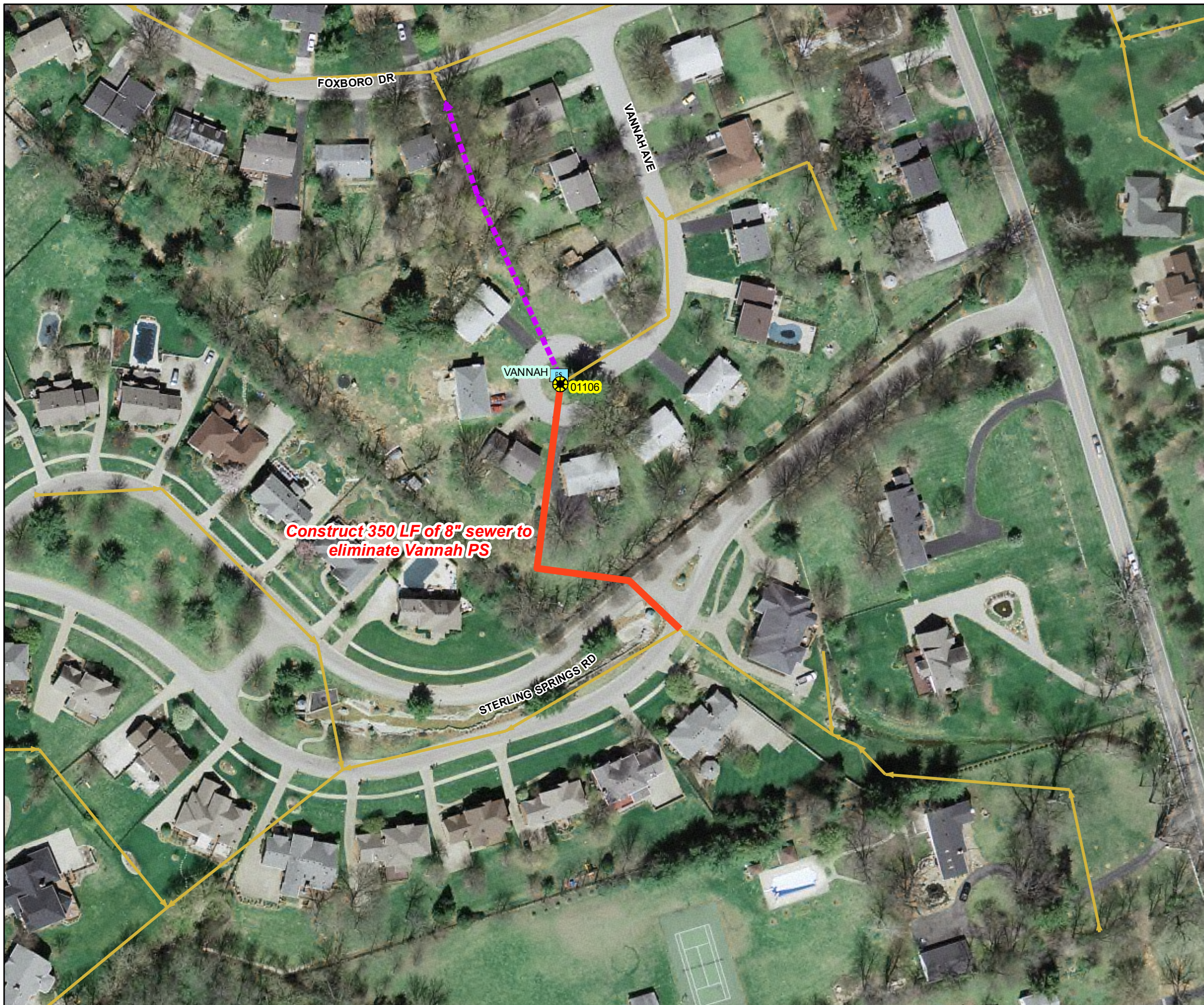
Some boundaries are uniquely symbolized within the map.

Map Revision
May 7, 2009

Aerial Date: 2006



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SSO SSDP Project Fact Sheet



SSO Project Number: S_MI_MF_NB06_M_01_A_A

Project Name: Anchor Estates PS Eliminations 2 -
Anchor Estates #1 / #2 PS Elimination

Modeled Area: Middle Fork

Branch or SSO ID: MF06

Project Type: Diversion

Receiving Stream: Middle Fork Beargrass Creek

Project Description: This alternative includes 9,440 LF of 8" - 12" pipe at Anchor Estates #1 and #2 pump stations to eliminate both pump stations.

Reason for Overflow: Bypass Pipe at Vannah Way, Undersized Pumps at Anchor Estates #1 and #2.

Design Parameters / Assumptions: This solution is based on a 2.60 inch cloudburst rain event

Project Constraints: None at this time

Estimated Capital Cost (2008 dollars): \$1,850,000

Weighted Benefit/Cost Ratio (Present Worth): 31.14

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
00746	Manhole Adjacent to Anchor Estates PS #1	Morris Forman	Pumped	Ditch	10,762
01106	Vannah PS Wetwell Manhole	Morris Forman	Constructed	Catch basin	No Data
00056-W	Anchor Estates #1 Wetwell	Morris Forman	Manhole	Ground	11,929
MSD0057-LS	Anchor Estates #2	Morris Forman	Lift Station	Stream	14,519

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Middle Fork Sewershed

Solution ID # S_MI_MF_NB06_M_01_A_A

Anchor Estates PS Eliminations 2

Anchor Estates #1 & #2 PS Elimination

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch equals 400 feet
Scalable when printed on 11" X 17" paper



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SSO SSDP Project Fact Sheet



SSO Project Number: S_MI_MF_NB07_S_07_C

Project Name: Hurstbourne I/I Investigation and Rehabilitation

Modeled Area: Middle Fork

Branch or SSO ID: MF07

Project Type: I/I Reduction

Receiving Stream: Middle Fork Beargrass Creek

Project Description: This location will be targeted for I/I source control (I/I rehab and private property program). Perform targeted SSES of 26,127 LF upstream of SSO at MH 01793. This accounts for 25% of upstream system.

Reason for Overflow: System capacity

Design Parameters / Assumptions: This solution is based on a 1.82 inch cloudburst rain event

Project Constraints: None

Estimated Capital Cost (2008 dollars): \$536,000 (Cost is for SSES only; rehabilitation will be performed under Annual I/I Rehab contracts and the private property program)

Weighted Benefit/Cost Ratio (Present Worth): Only cost calculated for SSES, no benefits are calculated

Overflow Points Addressed:

<u>SSO</u>	<u>SSO Name</u>	<u>Service Area</u>	<u>Overflow Type</u>	<u>Discharge To</u>	<u>Average Overflow / Incident (gallons)</u>
01793	9 Muirfield Pl	Morris Forman	Manhole	Ground	109,000

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan




















Middle Fork Sewershed

Solution ID # S_MI_MF_NB07_S_07_C

Hurstbourne I/I Investigation & Rehabilitation

Preliminary - For Budget Development Only

Legend

-  Documented SSO
-  Suspected SSO
-  Haul Operation
-  Proposed Pump Station Solution
-  Pump Station
-  WWTP
-  Proposed Pipe Solution
-  Force Main
-  Collector < 12"
-  Interceptor => 12"
-  Combined Sewer Pipe
-  Proposed Off-line Storage
-  Road
-  Streams
-  Floodway
-  Small WWTP Service Area
-  Large WWTP Service Area
-  CSO Area
-  Metro Parks

This location is targeted for source control (I/I rehab and private property program)

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch equals 900 feet
Scalable when printed on 11" X 17" paper



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