

**City of Ann Arbor, Michigan  
FY2008-2013 Capital Improvements Plan**

**Utilities – Sanitary Sewer System**

# Sanitary Sewer System

*Improvement or maintenance of the sanitary sewer system*

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## **CAPITAL PROGRAM SUMMARY**

The City is responsible for a system of approximately 400 miles of sanitary sewers of various diameters and for the treatment of wastewater from that system. The sanitary sewer capital improvements program provides for the installation, replacement, and repair of the City's sanitary sewers and upgrading of the wastewater treatment facility.

The Ann Arbor Sanitary Sewer System is similar to other systems in southern Michigan, in that high flows occur during wet weather. These high inflows have resulted in releases of partially treated sewage. In order to address this problem, the Michigan Department of Environmental Quality (MDEQ) entered into an Administrative Consent Order (ACO) with the City, directing the City to correct the problems, including the establishment of methods and schedules.

After studying Ann Arbor's system, the Sanitary Sewer Overflow (SSO) Task Force selected Footing Drain Disconnection (FDD) as the best method to correct the problem. The sanitary capital program contains FDD elements that will allow the City to comply with the ACO and control system discharges. A comprehensive sanitary study was completed to prioritize FDD objectives for the ACO and to evaluate future capacity needs. The City has applied for low interest state loans to finance priority footing drain disconnections.

## **NEEDS ASSESSMENT AND EVALUATION**

Priorities in future years reflect the Public Service Area's and the Planning Commission's estimate as to where the demand for services will be, based on the City Master Plan. For the City's Wastewater Treatment Plant (WWTP), priorities in future years will be based on the results of the comprehensive systems and equipment condition assessment, and the improvement alternatives evaluation, as identified in the WWTP Facilities Master Plan and the Sewage Residuals Management Plan.

## **PROJECT SELECTION CRITERIA**

- Sanitary Sewer Overflow Study (2001)
- Sanitary Trunk Sewer Study (1995)
- Citizen complaints of sewer back-ups
- Television inspection program
- Degree of deterioration
- System capacity expansion due to Master Plan
- Maintenance costs
- Contractual/Government obligation
- Coordination with other projects (i.e., street resurfacing)

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**PROJECT NAME: 2780 Packard Sanitary Extension**

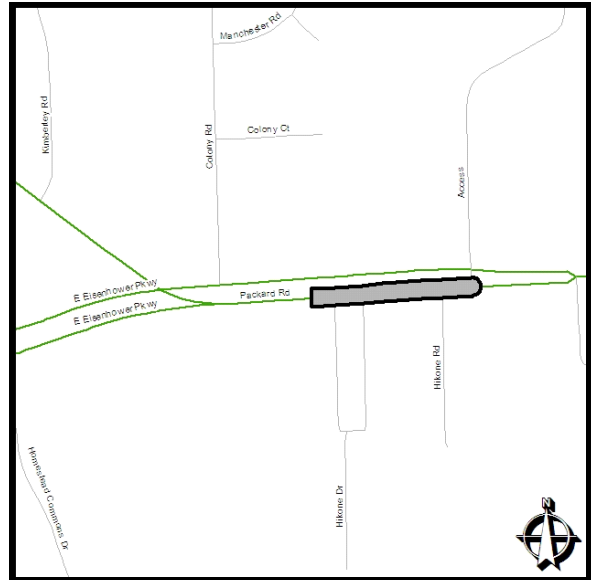
**PROJECT ID:** UT-SN-10-11  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Important  
**TOTAL COST:** \$175,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Gap in sanitary system; service requested

**LOCATION MAP:**



**SCOPE ITEMS:**

Coordinate, involve Parks (Cobblestone to north, if south park is west of Hikone Drive); May be able to provide some improvement to system at AAHC site - - now "private"; Account for FDD's, should address trunkline capacity issue

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- Protects health, safety, lives of citizens
- Meets new, or maintains existing, regulatory compliance
- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:		

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$175
		\$0	\$0	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$175

**PROJECT NAME: 2857 Packard Sanitary Extension**

**PROJECT ID:** UT-SN-10-13  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Desirable  
**TOTAL COST:** \$120,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Gap in sanitary system; service requested

**SCOPE ITEMS:**

Consider potential future development of site; Coordinate with Packard resurfacing (corridor) in 2010?;

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- Protects health, safety, lives of citizens
- Meets new, or maintains existing, regulatory compliance
- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:		

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$120	\$0	\$0	\$120	
		\$0	\$0	\$0	\$0	\$0	\$120	\$0	\$0	\$120	

**PROJECT NAME: Aerial Sewer Linings (Mallett's Creek X-ing; Arboretum)**

**PROJECT ID:** UT-SN-08-09  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Central, Northeast  
**PRIORITY:** Urgent  
**TOTAL COST:** \$250,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

**LOCATION MAP:**

**SCOPE ITEMS:**

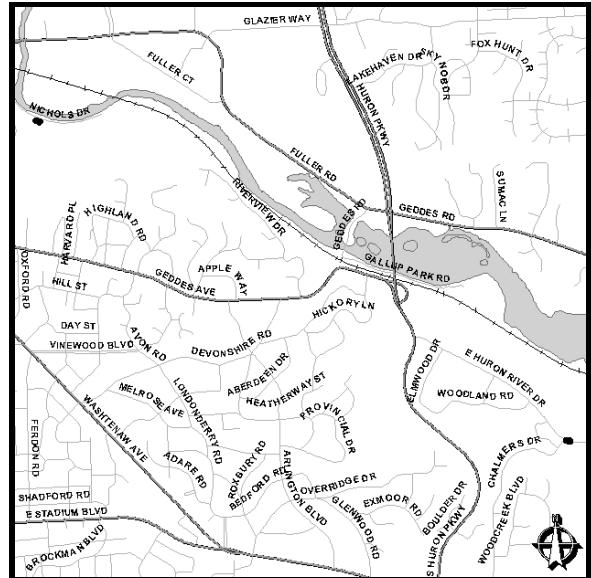
**PROJECT JUSTIFICATION:**

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 2 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 3 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 0 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**



**BENEFICIAL IMPACTS:**

Will prevent potential discharges to creeks through sewers

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2007	10/1/2007
Construction:	11/1/2007	1/1/2008

**SCHEDULE JUSTIFICATION:**

This project will eliminate the potential for discharges to open creeks

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
		\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250

**PROJECT NAME: Austin Sanitary Sewer Outlet**

**PROJECT ID:** UT-SN-01-03  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Important  
**TOTAL COST:** \$725,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

Concern of 8-inch and 15-inch pipes flowing into an 8-inch, capacity issues and pipe restriction could cause blockages.

**SCOPE ITEMS:**

Address restriction of 8-inch and 15-inch pipes flowing into an 8-inch, downstream 8 and 10 inch pipes extending approximately 3400 feet flow full during wet weather. Consider alternate paths, pipe upsizing, FDD's and condition/service life(Water & Storm)

**PROJECT JUSTIFICATION:**

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

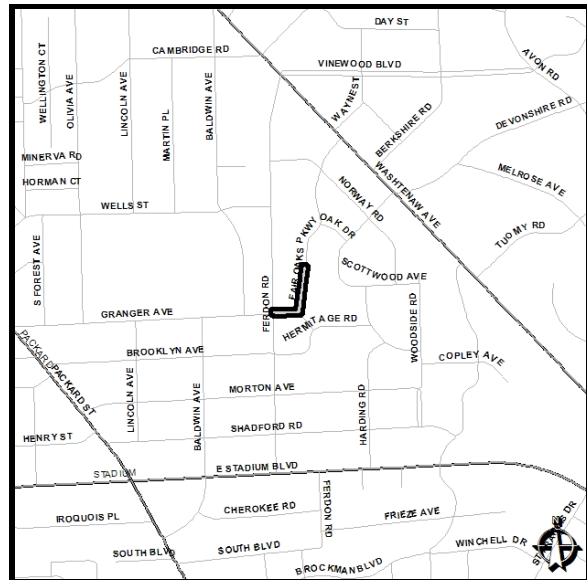
- 4 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 3 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 4 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**17 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

This project would relieve flooding of basements.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Resident Initiated

**SCHEDULE:**

	Start	End
Study:	7/1/2009	10/1/2009
Design/Acquisition:	10/1/2009	5/1/2010
Construction:	6/1/2010	11/1/2010

**SCHEDULE JUSTIFICATION:**

To relieve the flooding. Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$125	\$600	\$0	\$0	\$0	\$0	\$0	\$725
		\$0	\$0	\$125	\$600	\$0	\$0	\$0	\$0	\$0	\$725



**PROJECT NAME: Bluett Sanitary Sewer Service Extension**

**PROJECT ID:** UT-SN-06-02  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Desirable  
**TOTAL COST:** \$140,000  
**YEARS IN CIP:** 2

**IDENTIFIED NEED:**

Parcel not served, gap in system

**SCOPE ITEMS:**

Houses on Prarie St. cul-de-sac in easement to serve this parcel; Look at going on east side of house on 2460; Lack of depth on Bluett;

**PROJECT JUSTIFICATION:**

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

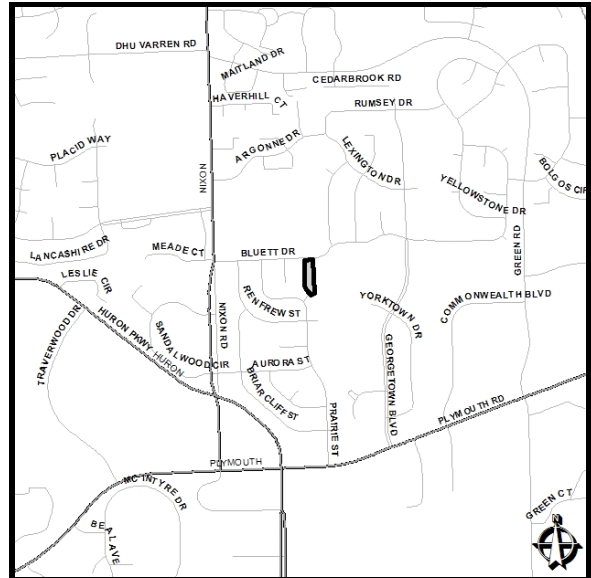
- 4 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 4 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**9 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Extend service to area now served by septic.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Resident Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	11/1/2010	4/1/2011
Construction:	7/1/2011	10/1/2011

**SCHEDULE JUSTIFICATION:**

This will avoid problems with failed septic fields.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$60	\$80	\$0	\$0	\$0	\$0	\$140	
		\$0	\$0	\$60	\$80	\$0	\$0	\$0	\$0	\$140	

**PROJECT NAME: Calvin Street Sanitary Sewer**

**PROJECT ID:** UT-SN-87-07  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Important  
**TOTAL COST:** \$480,000  
**YEARS IN CIP:** 21

**IDENTIFIED NEED:**

**SCOPE ITEMS:**

No right-of-way, easements, huge legal issue; Include Woodrow; At one time there was a home on pump & haul; Coordination with Maple Cove (if built); Examine depth to serve entire area; Most residents in Scio Twp.; Look at water also (doesn't exist)

**PROJECT JUSTIFICATION:**

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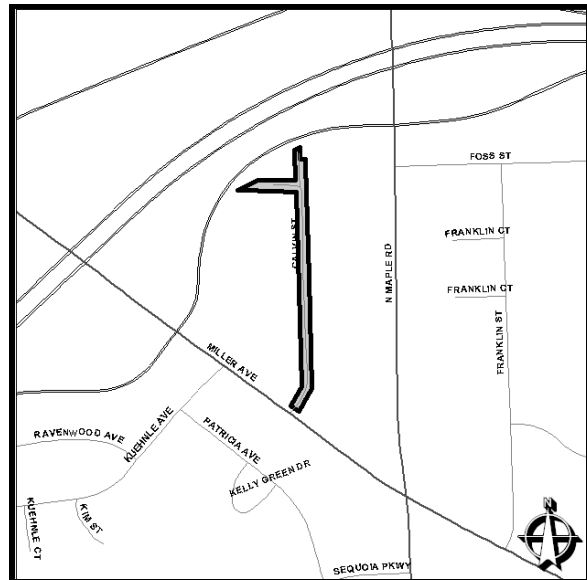
- 3 Protects health, safety, lives of citizens
- 1 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**7 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Eliminate questionable septic fields.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Resident Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2010	4/1/2013
Construction:	7/1/2013	10/1/2013

**SCHEDULE JUSTIFICATION:**

Calvin and Woodrow Streets are part of an unrecorded plat, and there is no recorded dedication of them as a public right-of-way. Legal issues preventing access to construct utilities here and lack of owner desire prevent this project from moving forward.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$115	\$0	\$385	\$0	\$0	\$0	\$500	
		\$0	\$0	\$115	\$0	\$385	\$0	\$0	\$0	\$500	

**PROJECT NAME: Dexter Avenue Sanitary Sewer Replacement**

**PROJECT ID:** UT-SN-10-01  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 PROJECT MANAGEMENT

**PLANNING AREA:** West  
**PRIORITY:** Important  
**TOTAL COST:** \$300,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Failing sanitary sewer

**SCOPE ITEMS:**

Replace existings sanitary sewer (extend to be determined) in conjunction with Dexter Avenue Reconstruction, investigate need to extend leads to township parcels.

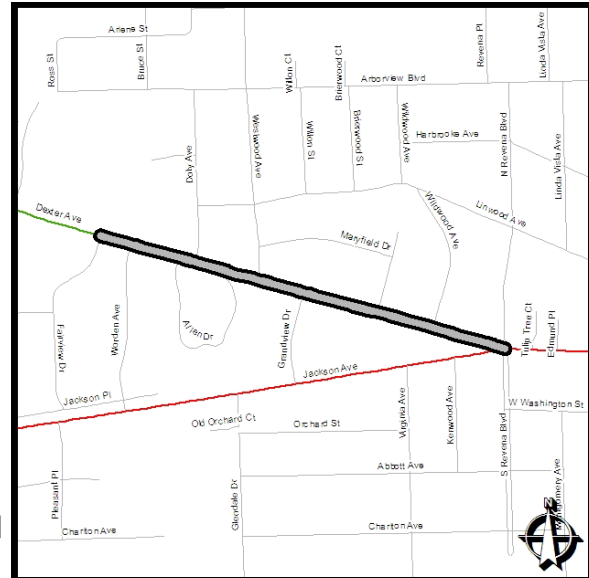
**PROJECT JUSTIFICATION:**

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  - 2 Meets new, or maintains existing, regulatory compliance
  - 2 Provides a net savings in operations and/or maintenance costs
  - 1 Enhances social, cultural, recreational or aesthetic opportunities
  - 2 Improves customer service, convenience for citizens
  - 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
  - 1 Reduces energy consumption, impacts on the environment
- 0 TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2010	2/1/2012
Construction:	4/1/2012	11/1/2012

**SCHEDULE JUSTIFICATION:**

Road reconstruction is scheduled to receive STP funding for 2012.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$60	\$240	\$0	\$0	\$0	\$0	\$300	
		\$0	\$0	\$60	\$240	\$0	\$0	\$0	\$0	\$300	

**PROJECT NAME: Dover Place/Riverview Sanitary Sewer**

**PROJECT ID:** UT-SN-08-02  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Desirable  
**TOTAL COST:** \$330,000  
**YEARS IN CIP:** 0

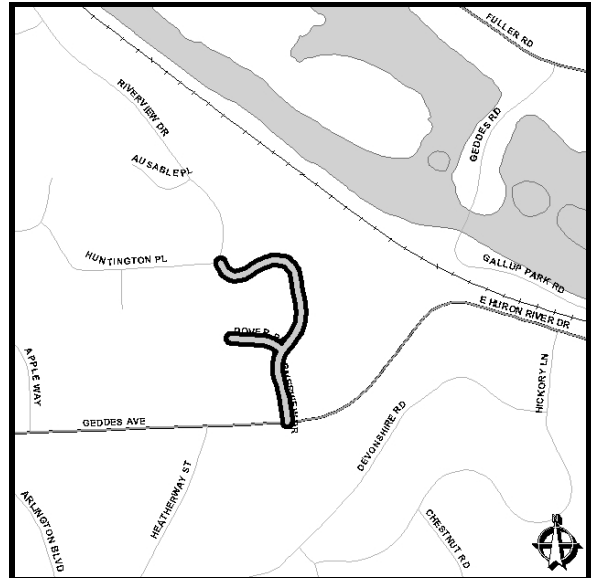
**IDENTIFIED NEED:**

Lack of sewer; property served "temporarily" across neighbor's parcel

**SCOPE ITEMS:**

Also extend water since doesn't exist; Review agreement(s) for 3060 Dover Place (and 3081?); Narrow rights-of-way? Location of all future infrastructure items; Outlet for Geddes need?;

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**8 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Removes properties from septic systems

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Resident Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2010	2/1/2011
Construction:	3/1/2011	6/30/2011

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$330	\$0	\$0	\$0	\$0	\$0	\$0	\$330
		\$0	\$0	\$330	\$0	\$0	\$0	\$0	\$0	\$0	\$330

**PROJECT NAME: Facilities Renovation**

**PROJECT ID:** UT-SN-01-09  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 WASTEWATER TREATMENT

**PLANNING AREA:** Ann Arbor Twp.  
**PRIORITY:** Urgent  
**TOTAL COST:** \$98,600,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

**LOCATION MAP:**

**SCOPE ITEMS:**

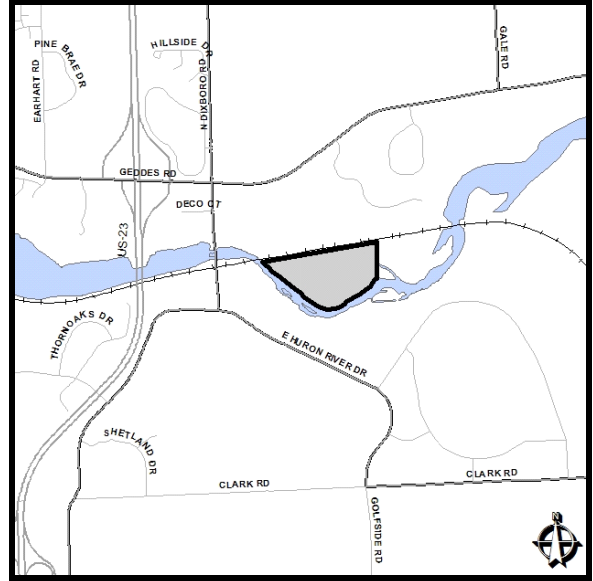
**PROJECT JUSTIFICATION:**

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- 4 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**20 TOTAL SCORE**



**BENEFICIAL IMPACTS:**

Necessary to repair deteriorating infrastructure; equipment ineffective; optimize process systems; logical prioritization based on plan; improved treatment capabilities.

**MASTER PLAN REFERENCE:** Wastewater Treatment Plant Facilities Master Plan (under development)

**STUDY REFERENCE:**  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:	7/1/2001	12/1/2004
Design/Acquisition:	4/1/2005	10/1/2009
Construction:	12/15/2008	1/1/2015

**SCHEDULE JUSTIFICATION:**

Allows time to implement recommended improvements to repair, replace or optimize plant treatment systems. Activities are scheduled to maintain process integrity.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Total
			FY10	FY11	FY12	FY13	FY14	FY15	Beyond FY15	
6907	BOND/NOTE PROCEEDS	\$7,100	\$5,800	\$24,900	\$29,600	\$23,200	\$8,000	\$0	\$0	\$98,600
		\$7,100	\$5,800	\$24,900	\$29,600	\$23,200	\$8,000	\$0	\$0	\$98,600

**PROJECT NAME: First Street Sanitary Replacement**

**PROJECT ID:** UT-SN-10-08  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 FIELD OPERATIONS

**PLANNING AREA:** Central  
**PRIORITY:** Urgent  
**TOTAL COST:** \$400,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Failing sanitary sewer

**SCOPE ITEMS:**

Currently stable - - backs up at MH then passes flow; Involve Field Operations;

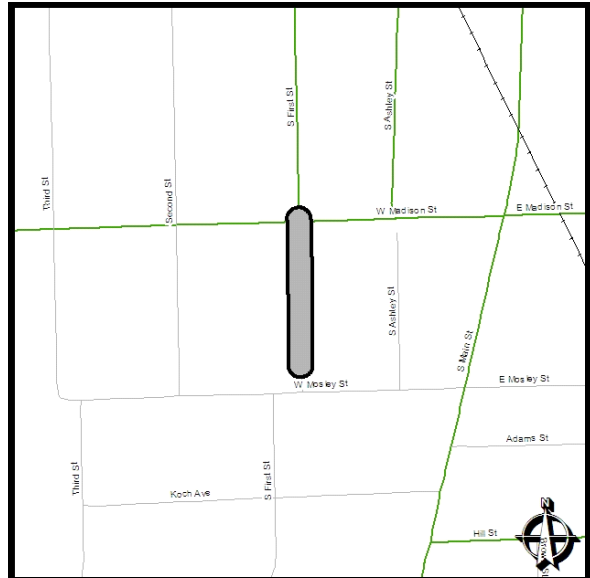
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- Protects health, safety, lives of citizens
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- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:		

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
		\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

**PROJECT NAME: Footing Drain Disconnection Project (Long Term)**

**PROJECT ID:** UT-SN-02-11  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** City-wide  
**PRIORITY:** Important  
**TOTAL COST:** \$59,650,000  
**YEARS IN CIP:** 6

**IDENTIFIED NEED:**

**LOCATION MAP:**

**SCOPE ITEMS:**

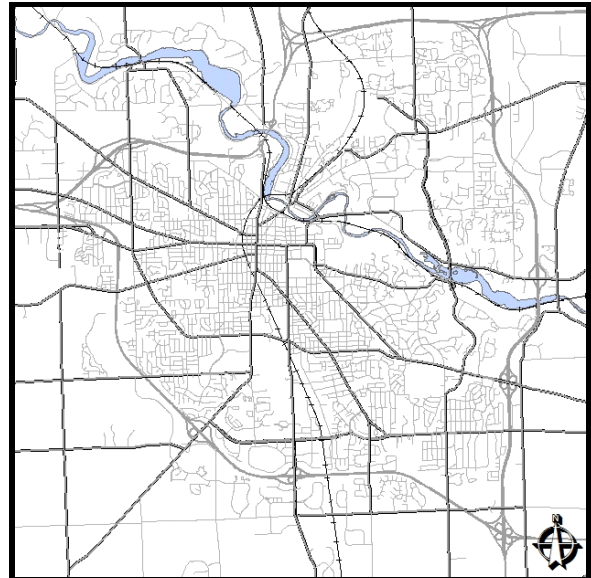
**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 4 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**20 TOTAL SCORE**



**BENEFICIAL IMPACTS:**

Prevent backups of sewage into residents' basements.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Sewer Overflow Prevention Study  
**POLICY/OTHER REFERENCE:** ACO to maintain WWTP Capacity

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:	1/1/2016	6/1/2036

**SCHEDULE JUSTIFICATION:**

Residents are very concerned about recurring backups and desire immediate action to prevent future incidents. Prevent law suits and regulatory penalties.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$1,400	\$250	\$1,500	\$2,500	\$2,500	\$2,500	\$47,500	\$0	\$58,150	
6988	DEVELOPER CONTRIBUTIONS	\$0	\$750	\$750	\$0	\$0	\$0	\$0	\$0	\$1,500	
		\$1,400	\$1,000	\$2,250	\$2,500	\$2,500	\$2,500	\$47,500	\$0	\$59,650	

**PROJECT NAME: Footing Drain Disconnection Project-2006 (Priority 2A)**

**PROJECT ID:** UT-SN-08-15  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** City-wide  
**PRIORITY:** Important  
**TOTAL COST:** \$11,050,000  
**YEARS IN CIP:** 0

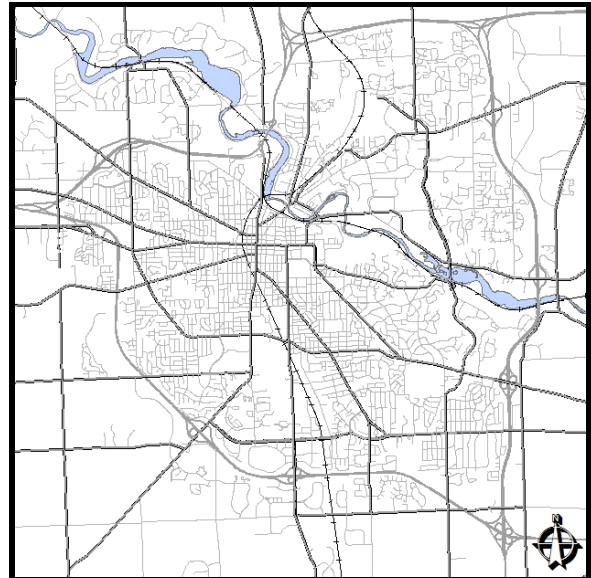
**IDENTIFIED NEED:****LOCATION MAP:****SCOPE ITEMS:****PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 4 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**20 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Prevents backups of sewage into residents' basements.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Sewer Overflow Prevention Study  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	1/1/2006	11/1/2006
Construction:	9/1/2006	12/1/2011

**SCHEDULE JUSTIFICATION:**

Residents are very concerned about reoccurring backups and desire immediate action to prevent future incidents. Prevent law suits and regulatory penalties.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$9,400	\$1,450	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$11,050
		\$9,400	\$1,450	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$11,050

**PROJECT NAME: Geddes Sanitary Sewer (2651 to 3053)**

**PROJECT ID:** UT-SN-08-05  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Important  
**TOTAL COST:** \$1,000,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

Gap in system; several properties requesting service

**SCOPE ITEMS:**

Corridor project.; Extensive public engagement; Trees and natural features; Examine area for extent of need/ missing system - - ROW's & properties not serviced; Water main stubs for streets lacking w/m; stub curb boxes where needed;

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

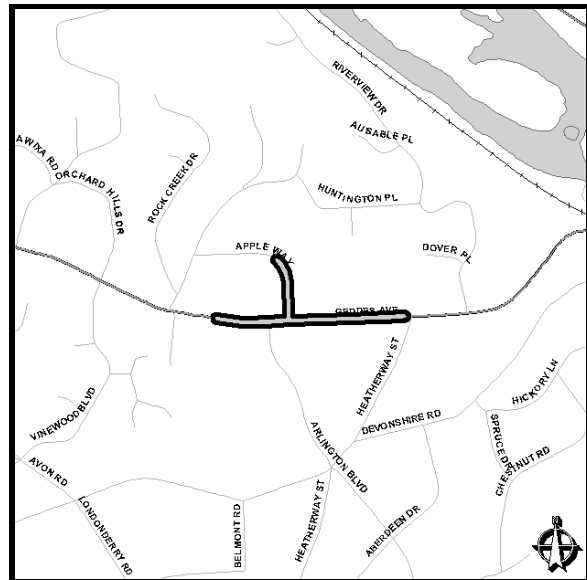
- 2 Protects health, safety, lives of citizens
- 1 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**6 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Replaces septic systems

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Resident Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2009	2/1/2010
Construction:	3/1/2010	6/30/2010

**SCHEDULE JUSTIFICATION:**

Need to coordinate with other work in the area.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
		\$0	\$200	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000

**PROJECT NAME: High Level Relief Sewer**

**PROJECT ID:** UT-SN-08-12  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Central  
**PRIORITY:** Desirable  
**TOTAL COST:** \$950,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

Sewer under capacity

**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

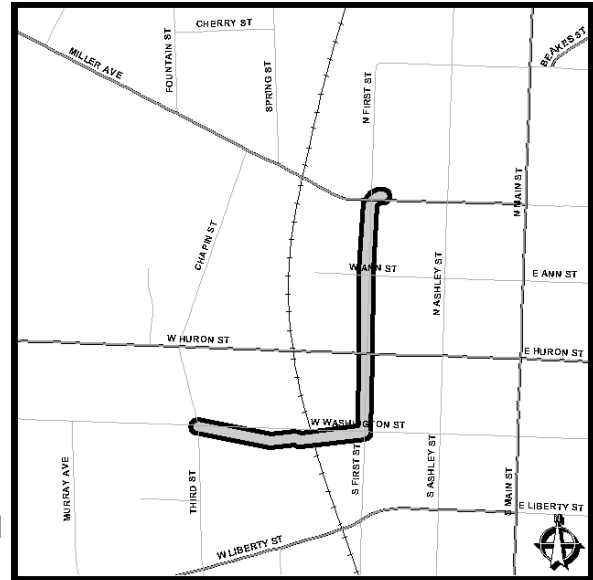
- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 3 Provides a net savings in operations and/or maintenance costs
- 2 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**20 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Project is necessary to provide capacity of downtown development, growth as desired by Calthorpe/A2D2 effort

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2008	6/1/2009
Construction:	8/1/2009	11/1/2009

**SCHEDULE JUSTIFICATION:**

Project is necessary to provide capacity of downtown development, growth as desired by Calthorpe/A2D2 effort

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$100	\$850	\$0	\$0	\$0	\$950	
		\$0	\$0	\$0	\$100	\$850	\$0	\$0	\$0	\$950	

**PROJECT NAME: Huron West Park (Phase II)**

**PROJECT ID:** UT-SN-91-15  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$1,225,000  
**YEARS IN CIP:** 17

**IDENTIFIED NEED:**

Sewer under capacity

**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

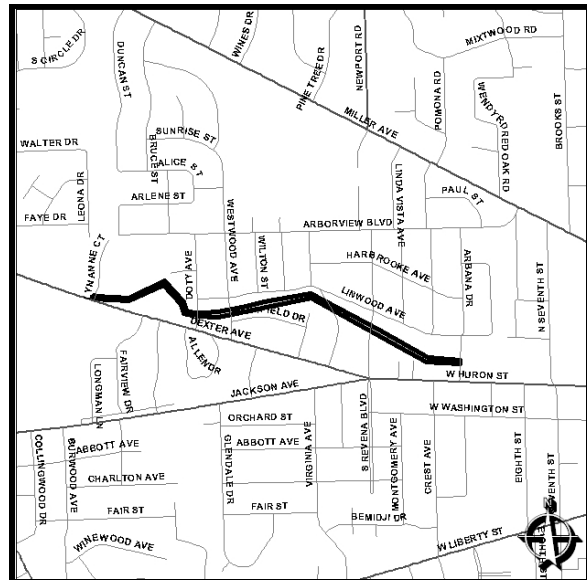
- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**16** TOTAL SCORE

**BENEFICIAL IMPACTS:**

Will eliminate the flooding of basements.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2011	5/1/2012
Construction:	7/1/2012	11/1/2012

**SCHEDULE JUSTIFICATION:**

To relieve basement flooding. Project on hold, to be re-evaluated using complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$330	\$895	\$0	\$1,225	
		\$0	\$0	\$0	\$0	\$0	\$330	\$895	\$0	\$1,225	

**PROJECT NAME: Huron West Park (Phase III)**

**PROJECT ID:** UT-SN-91-16  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

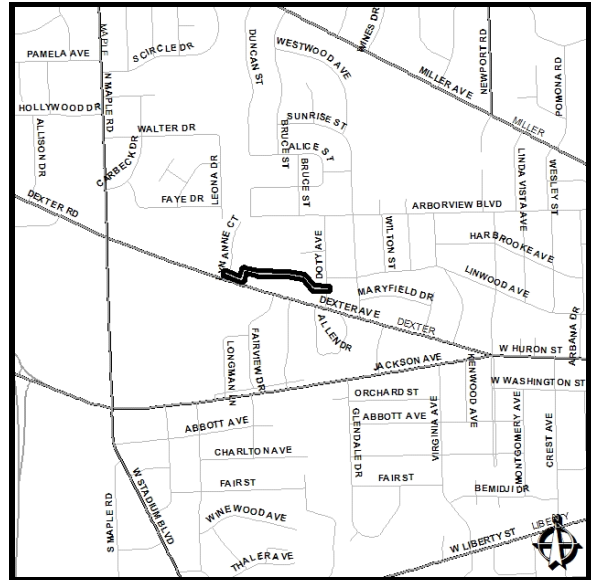
**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$745,000  
**YEARS IN CIP:** 17

**IDENTIFIED NEED:**

**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Will eliminate current flooding of basements.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)

**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2012	5/1/2013
Construction:	7/1/2013	11/1/2013

**SCHEDULE JUSTIFICATION:**

To relieve basement flooding. Project on hold, to be re-evaluated using complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$280	\$465	\$745
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$280	\$465	\$745

**PROJECT NAME: Liberty-Washington Relief (Phase I)**

**PROJECT ID:** UT-SN-01-19  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$475,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

Sewer under capacity

**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

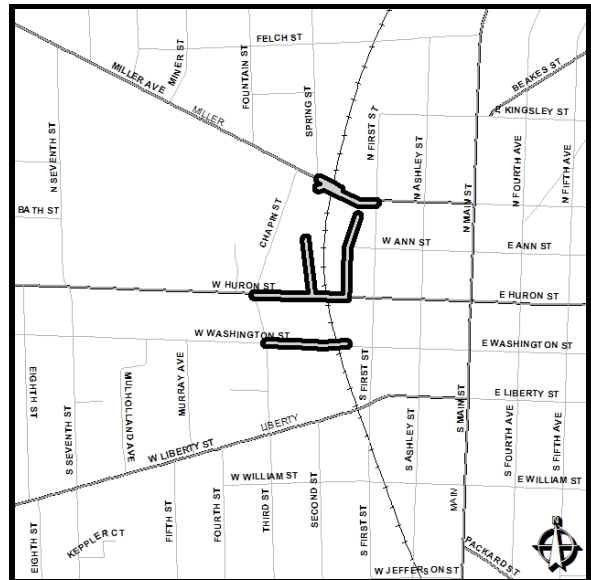
- 4 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**18 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Prevent sanitary sewer overflows.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2009	6/30/2010
Construction:	7/1/2010	11/1/2010

**SCHEDULE JUSTIFICATION:**

Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$475	\$0	\$0	\$0	\$475	
		\$0	\$0	\$0	\$0	\$475	\$0	\$0	\$0	\$475	

**PROJECT NAME: Liberty-Washington Relief (Phase II)**

**PROJECT ID:** UT-SN-01-20  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$460,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

Sewer under capacity

**LOCATION MAP:****SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE****BENEFICIAL IMPACTS:**

Prevent sanitary sewer overflows.

**MASTER PLAN REFERENCE:****STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)**POLICY/OTHER REFERENCE:****SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2010	6/30/2011
Construction:	7/1/2011	2/1/2012

**SCHEDULE JUSTIFICATION:**

Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$155	\$305	\$0	\$460	
		\$0	\$0	\$0	\$0	\$0	\$155	\$305	\$0	\$460	

**PROJECT NAME: Manhole Rehabilitation/Replacement Project**

**PROJECT ID:** UT-SN-10-05  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 FIELD OPERATIONS

**PLANNING AREA:** Citywide  
**PRIORITY:** Important  
**TOTAL COST:** \$250,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**  
 Manhole structure are failing

**LOCATION MAP:**

**SCOPE ITEMS:**  
 Repair/replace structures to allow access for maintenance.



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:  
 -1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 0 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 3 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment
- 0 **TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Provides safe access for maintenance of sanitary sewer.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:	9/1/2019	7/1/2010

**SCHEDULE JUSTIFICATION:**

Repair before access is needed for future maintenance.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
		\$0	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250

**PROJECT NAME: Michigan Stadium Sanitary Sewer Reroute**

**PROJECT ID:** UT-SN-10-06  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Central  
**PRIORITY:** Desirable  
**TOTAL COST:** \$700,000  
**YEARS IN CIP:**

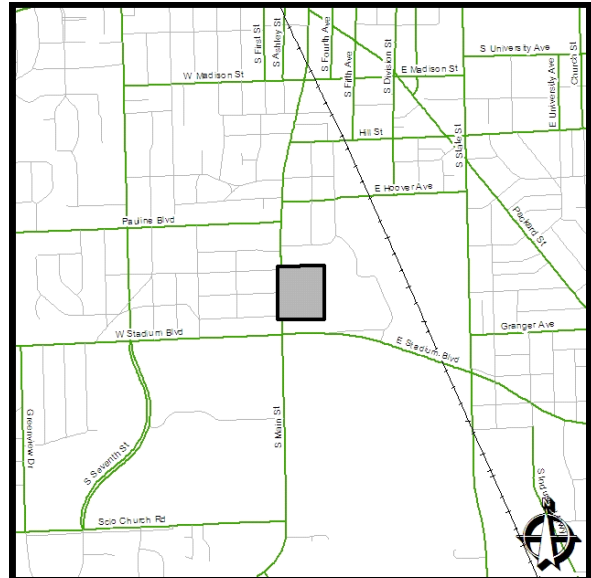
**IDENTIFIED NEED:**

Remove city sanitary sewer flow from pipes located beneath the UM Stadium. Eliminate O&M and liability issues for this location.

**SCOPE ITEMS:**

Reroute city sanitary sewage flow out of UM Stadium. Convert Sanitary lines beneath the stadium to private sewer. Coordinate work with Main Street corridor work. A portion of the work will involve approximately 20 foot deep construction.

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 0 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment
- 0 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Improves ability to properly maintain this section of the collection system. Removes potential liability for backups upstream or in the stadium due to pipe failures at this location and eliminates the potential for costly repairs and restoration.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2014	4/1/2015
Construction:	4/15/2015	8/15/2015

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
2743	OPERATING TRANSFER FROM 0043	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260	\$440	\$700
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260	\$440	\$700

**PROJECT NAME: Miller Avenue/Allen Creek Crossing Relief**

**PROJECT ID:** UT-SN-10-10  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Central  
**PRIORITY:** Important  
**TOTAL COST:** \$650,000  
**YEARS IN CIP:**

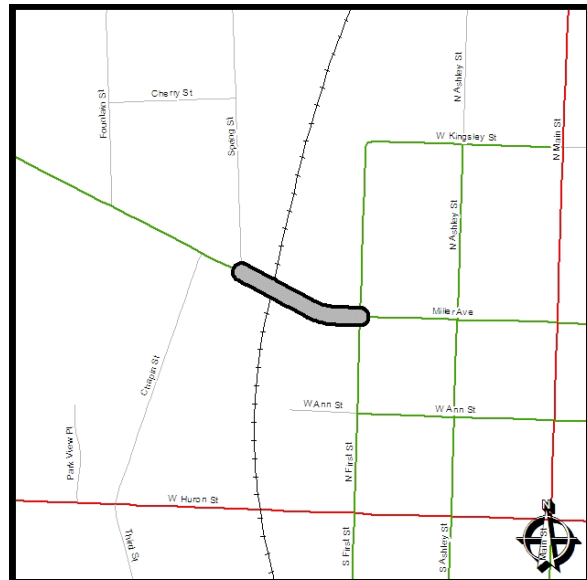
**IDENTIFIED NEED:**

Determine system operations - what is flowing where, First to Chapin;

**SCOPE ITEMS:**

Review MH on south side of Miller, just east of Spring; May need to involve WCDC (Allen's Creek); Examine all existing utilities - - remaining service life of W & R; Need to model;

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- Protects health, safety, lives of citizens
- Meets new, or maintains existing, regulatory compliance
- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

**Start                      End**

**SCHEDULE JUSTIFICATION:**

Study:	<input type="text"/>	<input type="text"/>
Design/Acquisition:	<input type="text"/>	<input type="text"/>
Construction:	<input type="text"/>	<input type="text"/>

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$100	\$550	\$0	\$0	\$0	\$0	\$650	
		\$0	\$0	\$100	\$550	\$0	\$0	\$0	\$0	\$650	

**PROJECT NAME: Miller West Park Sanitary - Low Level**

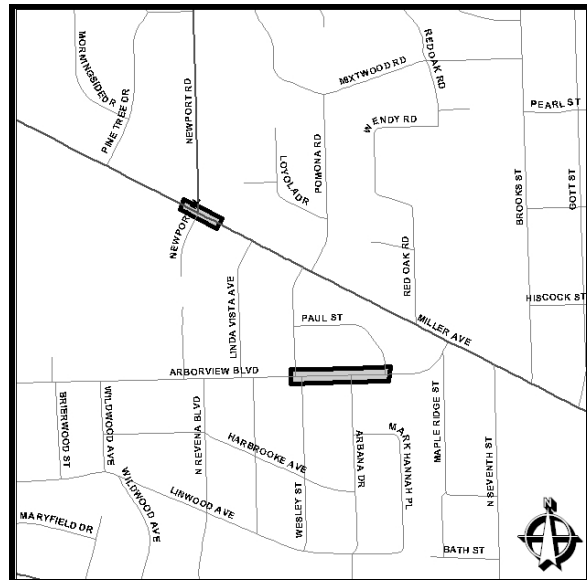
**PROJECT ID:** UT-SN-01-21  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$300,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

Sewer under capacity

**LOCATION MAP:**



**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 2 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 2 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 1 Reduces energy consumption, impacts on the environment

**11 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

This project will allow continued service to the already identified service area. Prevent sanitary sewer overflows.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)

**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	11/1/2008	5/1/2009
Construction:	6/1/2009	11/1/2009

**SCHEDULE JUSTIFICATION:**

Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$100	\$200	\$0	\$0	\$300	
		\$0	\$0	\$0	\$0	\$100	\$200	\$0	\$0	\$300	



**PROJECT NAME: North Fifth Avenue Sanitary Lead Removals from Storm Sewer**

**PROJECT ID:** UT-SN-10-02  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 PROJECT MANAGEMENT

**PLANNING AREA:** Central  
**PRIORITY:** Desirable  
**TOTAL COST:** \$220,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Existing sanitary leads passing through storm sewer

**SCOPE ITEMS:**

Confirm location & extent of sanitary lead/storm sewer conflict, coordinate with street resurfacing, investigate possibility of laying elliptical pipe on its side, may be in the flood plain near Depot.

**PROJECT JUSTIFICATION:**

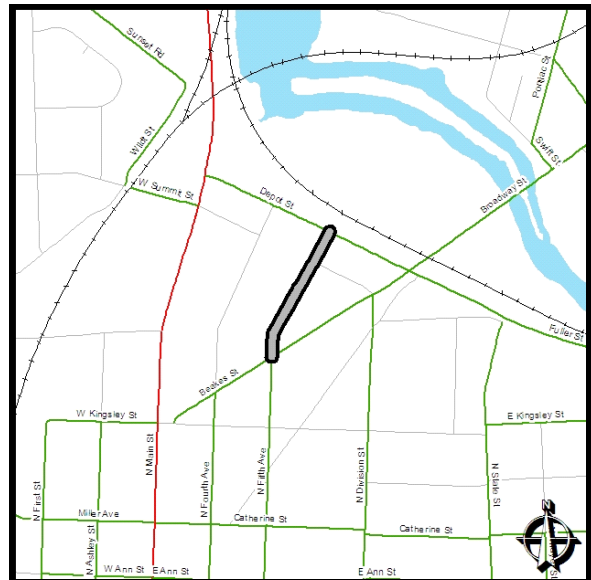
Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment

0 **TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

Reduces possibility of sanitary leads leaking into storm sewer system. Removal of conflict will allow street to be resurfaced/reconstructed.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2009	2/1/2010
Construction:	4/1/2010	9/1/2010

**SCHEDULE JUSTIFICATION:**

Utility conflict needs to be resolved so that street can be resurfaced/reconstructed

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220
		\$0	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220

**PROJECT NAME: North Main Submain Relief Sanitary Sewer - AARR to M-14**

**PROJECT ID:** UT-SN-08-16  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Important  
**TOTAL COST:** \$2,750,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

Capacity issues determined in system modeling

**SCOPE ITEMS:**

Model to determine/confirm sizing; MDEQ is aware of middle section upsizing; confirm easement; may need to deal with RR near or adjacent to RR ROW

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

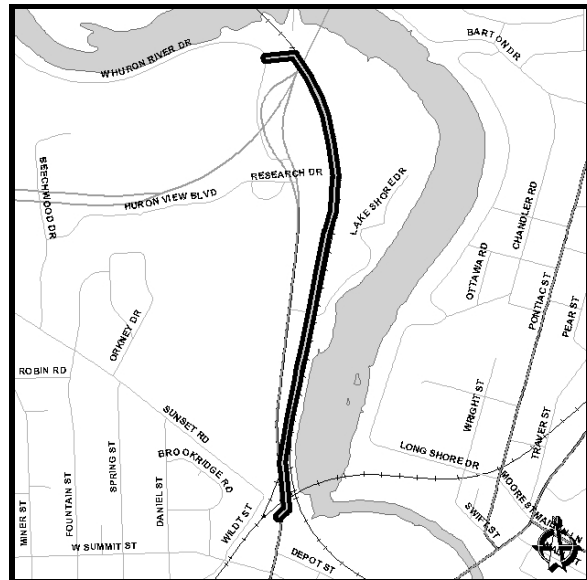
-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

Sanitary Sewer Capacity Audit and Model

**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2008	3/1/2009
Construction:	7/1/2009	11/1/2009

**SCHEDULE JUSTIFICATION:**

Detailed system modeling required, and line will be receiving flow from new high school which is scheduled to be fully operational by fall 2009.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$250	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,750
		\$250	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,750

**PROJECT NAME: North Main Submain Relief Sanitary Sewer - Bird Road past Warrington**

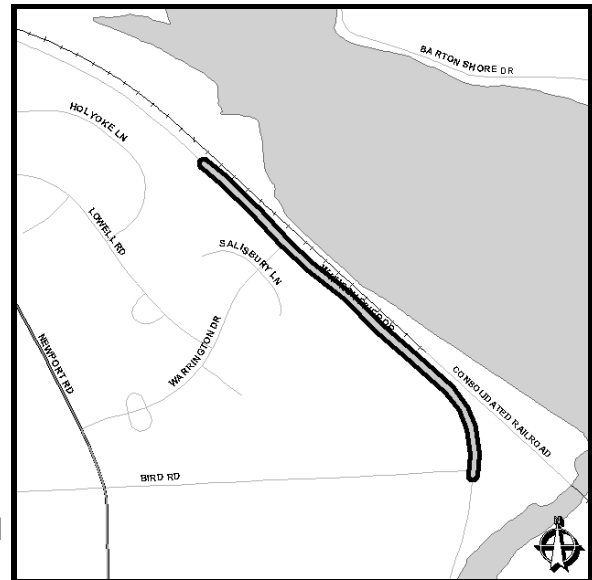
**PROJECT ID:** UT-SN-08-19  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$1,300,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

Capacity issues determined in system modeling

**LOCATION MAP:**



**SCOPE ITEMS:**

Model to determine/confirm sizing done?; Examine flow out of Skyline

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

Sanitary Sewer Capacity Audit and Model

**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2009	3/1/2010
Construction:	7/1/2010	10/1/2010

**SCHEDULE JUSTIFICATION:**

Detailed system modeling required, and line will be receiving flow from new high school which is scheduled to be fully operational by fall 2009.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$100	\$1,200	\$0	\$1,300	
		\$0	\$0	\$0	\$0	\$0	\$100	\$1,200	\$0	\$1,300	

**PROJECT NAME: North Seventh Street Sanitary Sewer**

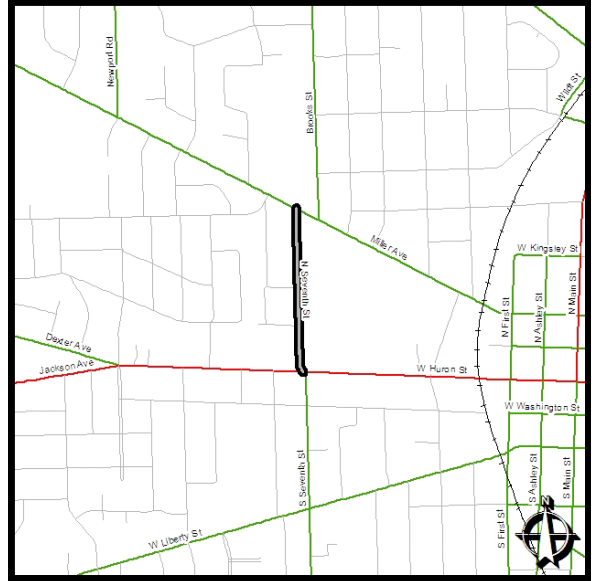
**PROJECT ID:** UT-SN-10-03  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 FIELD OPERATIONS

**PLANNING AREA:** West  
**PRIORITY:** Urgent  
**TOTAL COST:** \$385,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**  
 Sanitary Sewer Replacement

**LOCATION MAP:**

**SCOPE ITEMS:**  
 Confirm extents of failure/extent to be replaced, coordinate with road resurfacing/reconstruction, county drain crossings (culverts) could be impacted, examine remaining life on other utilities



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 4 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 3 Provides a net savings in operations and/or maintenance costs
- 1 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment
- 0 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Replacement of sanitary line will prevent future leaks and/or backups, and reduce maintenance costs.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2010	2/1/2011
Construction:	4/1/2011	11/1/2011

**SCHEDULE JUSTIFICATION:**

Work is urgent due to failure of existing line.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$32	\$353	\$0	\$0	\$0	\$0	\$0	\$0	\$385
		\$0	\$32	\$353	\$0	\$0	\$0	\$0	\$0	\$0	\$385

**PROJECT NAME: Northside Sanitary Submain (Phase I)**

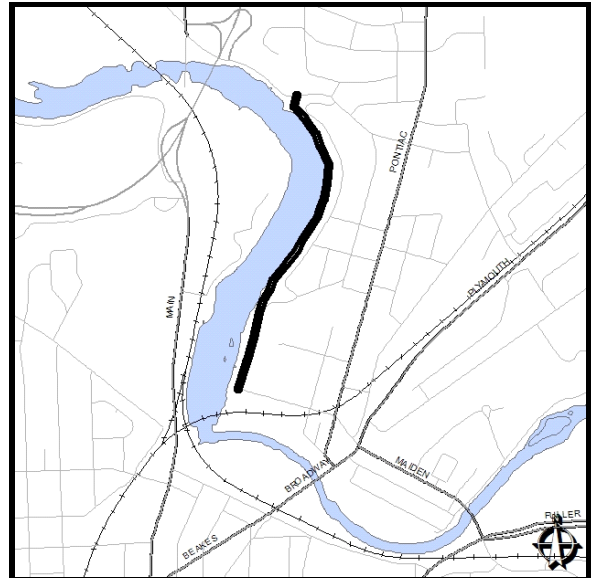
**PROJECT ID:** UT-SN-83-23  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Urgent  
**TOTAL COST:** \$550,000  
**YEARS IN CIP:** 25

**IDENTIFIED NEED:**

Sewer under capacity and tree root maintenance problems

**LOCATION MAP:**



**SCOPE ITEMS:**

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 4 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**19 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Less maintenance on that line, no discharge into the river.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2007	2/1/2008
Construction:	7/1/2009	11/1/2009

**SCHEDULE JUSTIFICATION:**

This sewer requires frequent and intense maintenance to treat and remove root intrusions in order to avoid discharge to the river.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550
		\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550

**PROJECT NAME: Northside Sanitary Submain (Phase II)**

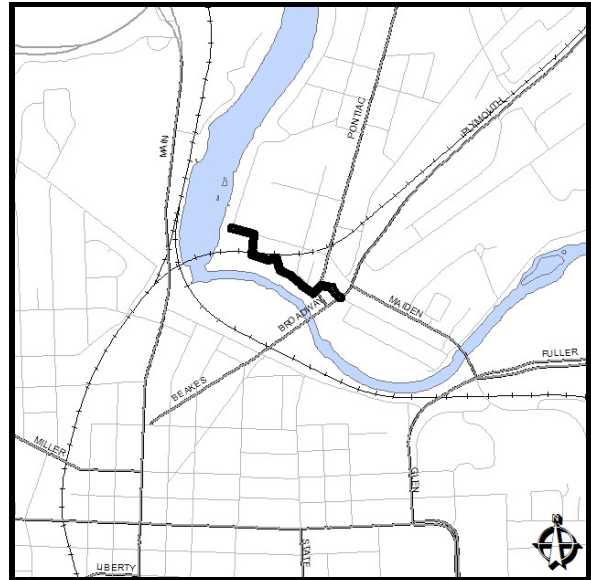
**PROJECT ID:** UT-SN-83-24  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Urgent  
**TOTAL COST:** \$1,450,000  
**YEARS IN CIP:** 25

**IDENTIFIED NEED:**

Sewer under capacity and tree root maintenance problems

**LOCATION MAP:**



**SCOPE ITEMS:**

Coordinate with efforts on Phase I; Determine/confirm sizing with upstream development;

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 4 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**19 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Lower maintenance costs, no discharges into the river.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)

**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	10/1/2009	5/1/2010
Construction:	6/1/2010	11/1/2010

**SCHEDULE JUSTIFICATION:**

Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program. May require CIPP lining only.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$475	\$975	\$0	\$0	\$0	\$0	\$0	\$0	\$1,450
		\$0	\$475	\$975	\$0	\$0	\$0	\$0	\$0	\$0	\$1,450

**PROJECT NAME: Orchard and Abbot Crosslot Sanitary Sewer Replacement**

**PROJECT ID:** UT-SN-10-04  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 FIELD OPERATIONS

**PLANNING AREA:** West  
**PRIORITY:** Urgent  
**TOTAL COST:** \$750,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Sanitary sewer in identified location is failing.

**SCOPE ITEMS:**

Replace sanitary sewer in identified location. Lining is not a possibility because of double 90 degree bend located between properties in the middle of the run.

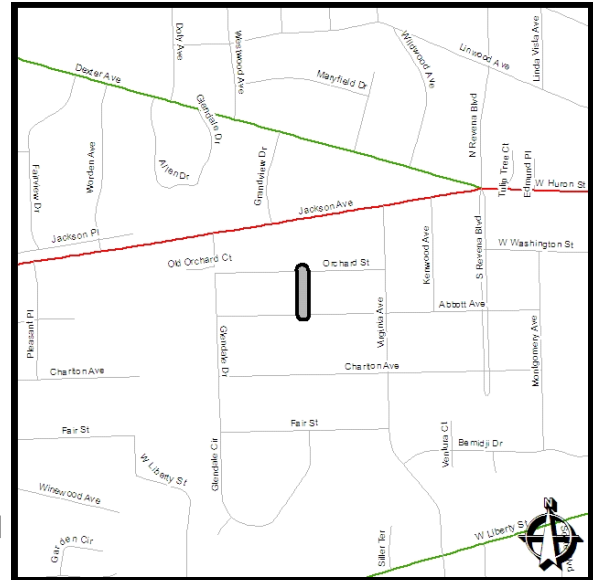
**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 2 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment
- 0 **TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

Sewer to be replaced before failure.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2009	1/1/2010
Construction:	3/1/2010	7/1/2010

**SCHEDULE JUSTIFICATION:**

Replace before failure and customers lose sanitary service.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
		\$0	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

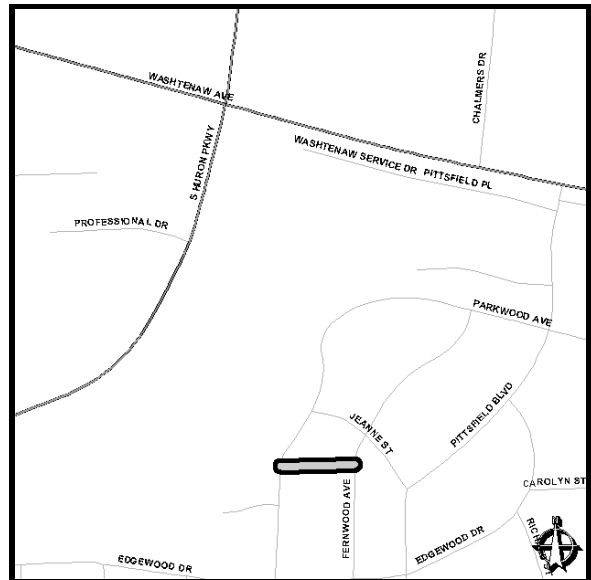
**PROJECT NAME: Parkwood/Fernwood Crosslots Sanitary Lining/Repair**

**PROJECT ID:** UT-SN-08-10  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Urgent  
**TOTAL COST:** \$230,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**  
 Sanitary sewer cracked

**LOCATION MAP:**



**SCOPE ITEMS:**

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:  
 -1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 4 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 4 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**16 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

This existing sewer is in a failing condition, and in critical need of repair, replacement or lining. In addition, the sewer is near or under an existing private structure (garage).

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2007	10/1/2007
Construction:	10/1/2007	12/1/2007

**SCHEDULE JUSTIFICATION:**

This existing sewer is in a failing condition, and in critical need of repair, replacement or lining. In addition, the sewer is near or under an existing private structure (garage).

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$230	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$230
		\$230	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$230

**PROJECT NAME: Pauline Sanitary Sewer Replacement**

**PROJECT ID:** UT-SN-10-07  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 FIELD OPERATIONS

**PLANNING AREA:** West  
**PRIORITY:** Urgent  
**TOTAL COST:** \$550,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Pipe has failed

**SCOPE ITEMS:**

Confirm extent (~25 houses); Point repair of worst section(s) and then lining? Or pipe bursting, or replacement

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- Protects health, safety, lives of citizens
- Meets new, or maintains existing, regulatory compliance
- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:		

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550
		\$0	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550

**PROJECT NAME: Pittsfield Valley Submain Relief**

**PROJECT ID:** UT-SN-01-25  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Desirable  
**TOTAL COST:** \$410,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

Sewer under capacity

**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

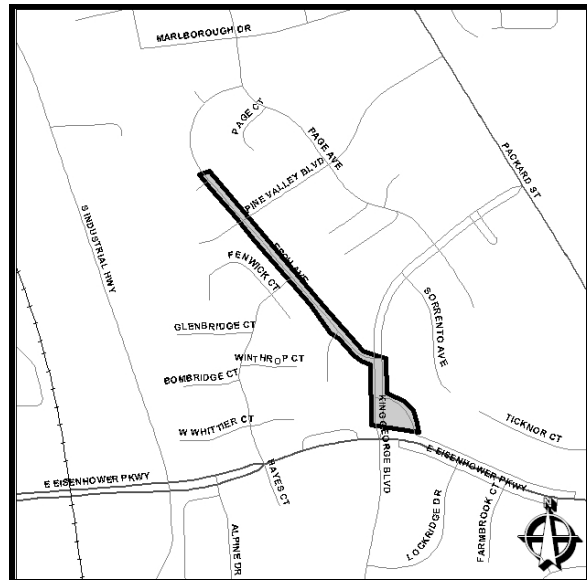
- 3 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 2 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**14 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Prevent possible basement flooding

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2012	6/30/2013
Construction:	7/1/2013	11/1/2013

**SCHEDULE JUSTIFICATION:**

Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$135	\$275	\$410
		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$135	\$275	\$410

**PROJECT NAME: Pittsfield Valley Trunkline Relief Sewer**

**PROJECT ID:** UT-SN-93-26  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Desirable  
**TOTAL COST:** \$2,000,000  
**YEARS IN CIP:** 15

**IDENTIFIED NEED:**

Sewer under capacity.

**SCOPE ITEMS:**

Examine with model after system monitoring by FDD program

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

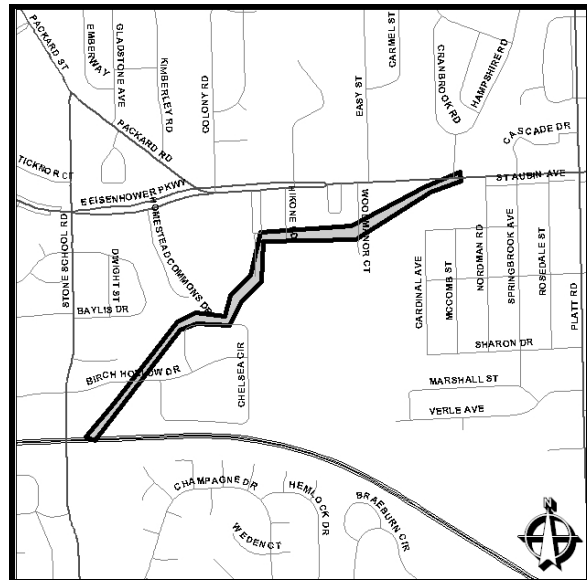
- 3 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 2 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**14 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Provide ability to meet contractual obligations.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:** Sanitary Trunk Sewer Study (1995)  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2011	6/1/2012
Construction:	7/1/2012	11/1/2012

**SCHEDULE JUSTIFICATION:**

Based on contract with township. Project to be re-evaluated as part of a complete sanitary system hydraulic model to determine pipe size or if it is still needed due to the flow reductions of implementing a city-wide footing drain disconnection program.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *					Beyond FY15	Total	
			FY10	FY11	FY12	FY13	FY14			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$500	\$1,500	\$0	\$2,000
		\$0	\$0	\$0	\$0	\$0	\$500	\$1,500	\$0	\$2,000

**PROJECT NAME: Residuals Handling Improvements**

**PROJECT ID:** UT-SN-01-27  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 WASTEWATER TREATMENT

**PLANNING AREA:** Ann Arbor Twp  
**PRIORITY:** Urgent  
**TOTAL COST:** \$54,803,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

**LOCATION MAP:**

**SCOPE ITEMS:**

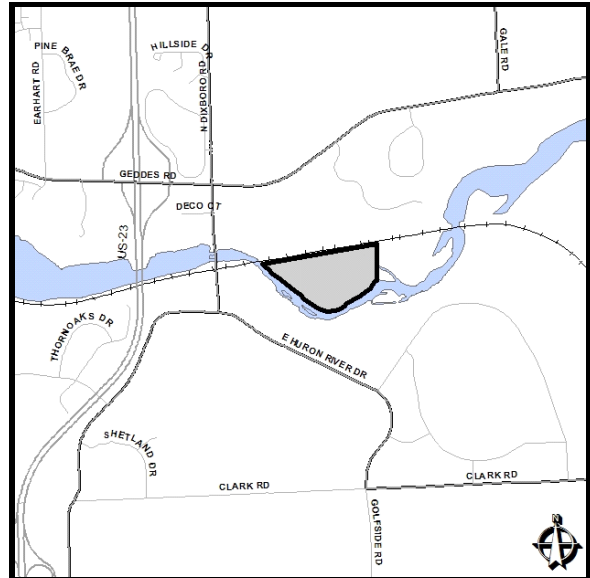
**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 4 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 3 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 2 Reduces energy consumption, impacts on the environment

**18 TOTAL SCORE**



**BENEFICIAL IMPACTS:**

Assures regulatory compliance; prevents odors; improves cost effectiveness; reduces maintenance; reduces risk of system failure.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** WWTP Solids Residuals Management Plan

**SCHEDULE:**

	Start	End
Study:	5/1/1998	10/1/2004
Design/Acquisition:	10/1/2005	12/1/2007
Construction:	12/1/2008	6/30/2011

**SCHEDULE JUSTIFICATION:**

Improvements will result in immediate benefits for plant. Existing equipment is unreliable. Proposed schedule accounts for all priority needs.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$8,803	\$26,200	\$19,800	\$0	\$0	\$0	\$0	\$0	\$0	\$54,803
		\$8,803	\$26,200	\$19,800	\$0	\$0	\$0	\$0	\$0	\$0	\$54,803

**PROJECT NAME: Ridgemor-Liberty Sanitary Sewer**

**PROJECT ID:** UT-SN-08-08  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$150,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

Gap in system; request for service to vacant lot

**SCOPE ITEMS:**

Need to determine best routing; Need to determine need by church (owner);

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

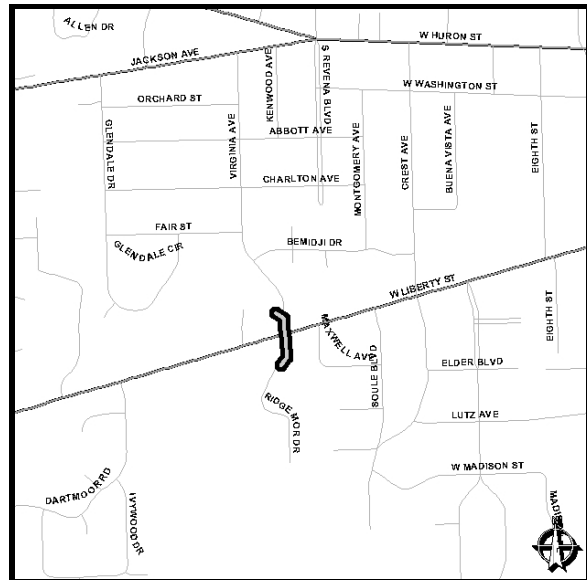
- 1 Protects health, safety, lives of citizens
- 1 Meets new, or maintains existing, regulatory compliance
- 0 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment

**2 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

This sewer will allow development of this vacant site and has been requested by the property owner, the Zion Lutehran Church

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Resident Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2008	3/1/2009
Construction:	4/1/2009	7/1/2009

**SCHEDULE JUSTIFICATION:**

this project has been requested by the property owner, the Zion Lutheran Church, to enable the development of the currently vacant parcel. An easement may be necessary if connection to sewer at Siller Terrace is desired/req'd.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$150	\$0	\$0	\$0	\$150	
		\$0	\$0	\$0	\$0	\$150	\$0	\$0	\$0	\$150	

**PROJECT NAME: South Boulevard Lift Station Elimination & Gravity Sewer**

**PROJECT ID:** UT-SN-01-28

**PLANNING AREA:** South

**PROJECT TYPE:** Replacement

**PRIORITY:** Desirable

**SUBMITTED BY:** PUBLIC SERVICES

**TOTAL COST:** \$500,000

WASTEWATER TREATMENT

**YEARS IN CIP:** 7

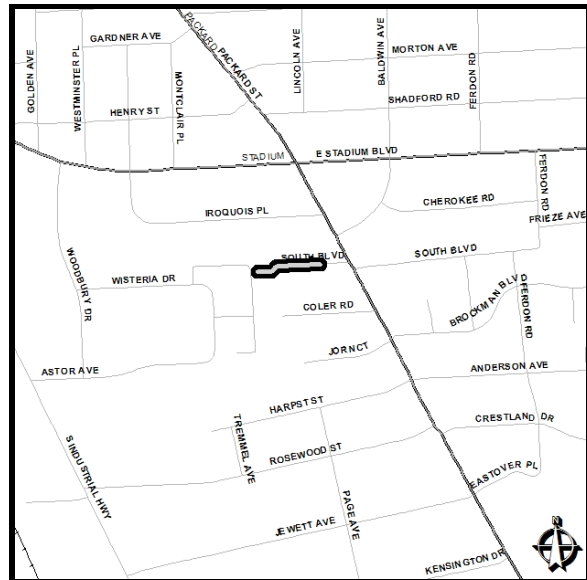
**IDENTIFIED NEED:**

Eliminate lift station to reduce operations and maintenance cost and reduce risk (power outaae. etc.)

**SCOPE ITEMS:**

Easements needed; Need to determine routing; Coordinate with water project; Maintenance by staff requires traffic control and confined space entry

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 4 Protects health, safety, lives of citizens
- 4 Meets new, or maintains existing, regulatory compliance
- 0 Provides a net savings in operations and/or maintenance costs
- 1 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**17 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

This project would lower operation and maintenance costs.

**MASTER PLAN REFERENCE:** Wastewater Treatment Plant Facilities Master Plan (under development)

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	7/1/2011	4/1/2012
Construction:	4/1/2012	7/1/2012

**SCHEDULE JUSTIFICATION:**

Priority tied to water main project. Continued maintenance costs keep rising.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$500
		\$0	\$0	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$500

**PROJECT NAME: Southside Interceptor Rehabilitation**

**PROJECT ID:** UT-SN-03-29  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Important  
**TOTAL COST:** \$7,020,000  
**YEARS IN CIP:** 5

**IDENTIFIED NEED:**

**SCOPE ITEMS:**

Needs to be completed before heavy work at WWTP - - truck traffic affects

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

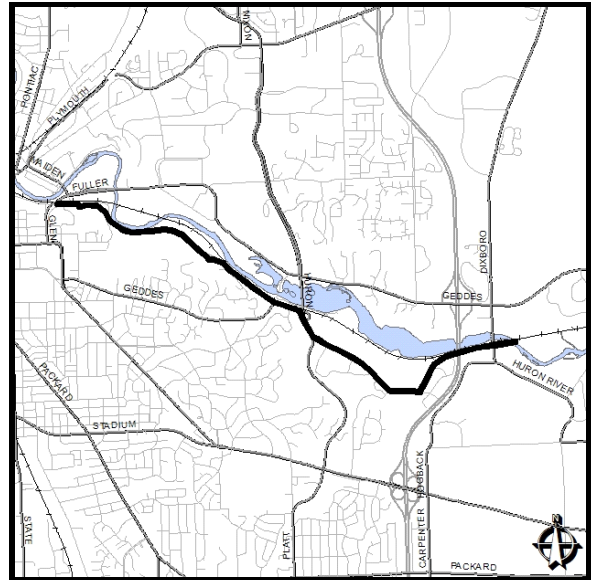
- 1 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 1 Improves customer service, convenience for citizens
- 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 3 Reduces energy consumption, impacts on the environment

**12 TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Identify and correct potential pipe failures which could result in discharges to the Huron River.

**LOCATION MAP:**



**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:	11/1/2007	6/1/2008
Design/Acquisition:	7/1/2006	12/1/2008
Construction:	6/1/2008	11/1/2012

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$1,320	\$200	\$650	\$1,200	\$1,100	\$1,550	\$0	\$0	\$6,020	
		\$1,320	\$200	\$650	\$1,200	\$1,100	\$1,550	\$0	\$0	\$6,020	

**PROJECT NAME: Springbrook Sanitary Sewer Extension**

**PROJECT ID:** UT-SN-01-30  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** South  
**PRIORITY:** Desirable  
**TOTAL COST:** \$140,000  
**YEARS IN CIP:** 7

**IDENTIFIED NEED:**

Needed to served AAHC site

**SCOPE ITEMS:**

Coordinate with AAHC re: extent (on-site)

**LOCATION MAP:**



**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 0 Protects health, safety, lives of citizens
- 0 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 2 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 0 Reduces energy consumption, impacts on the environment
- 0 **TOTAL SCORE**

**BENEFICIAL IMPACTS:**

Provide sanitary sewer service for potential affordable housing site.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	11/1/2010	5/1/2011
Construction:	7/1/2011	9/1/2011

**SCHEDULE JUSTIFICATION:**

Extend sanitary sewer service to serve a city-owned parcel that has been tagged as a potential affordable housing site.

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$20	\$120	\$0	\$0	\$0	\$0	\$140	
		\$0	\$0	\$20	\$120	\$0	\$0	\$0	\$0	\$140	

**PROJECT NAME: Swift Street Sanitary Sewer**

**PROJECT ID:** UT-SN-08-04  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Desirable  
**TOTAL COST:** \$110,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

Remove private sewer from Swift Street right-of-way

**SCOPE ITEMS:**

Determine extent of private sewers

**PROJECT JUSTIFICATION:**

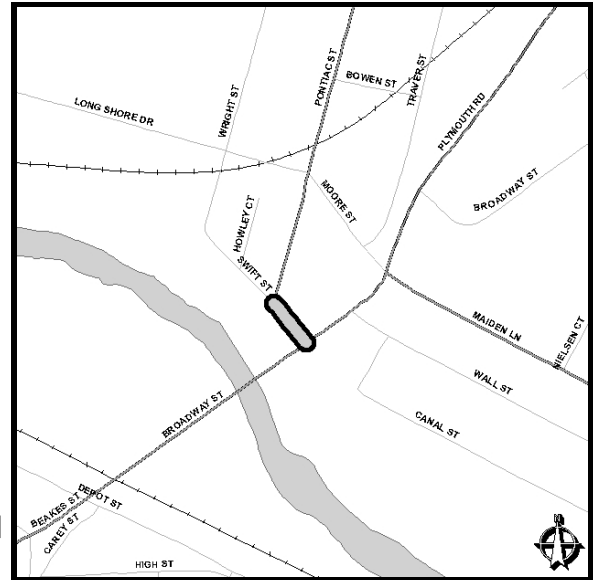
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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 2 Protects health, safety, lives of citizens
- 3 Meets new, or maintains existing, regulatory compliance
- 2 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 4 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 1 Reduces energy consumption, impacts on the environment

**15 TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

Replaces 4-inch sewer in Swift Street with standard, 8-inch sanitary sewer and removes the burden of sewer maintenance from the properties currently served by the private sewer.

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2008	2/1/2009
Construction:	4/15/2009	5/15/2009

**SCHEDULE JUSTIFICATION:**

Should coordinate with Broadway Village development and its work in Broadway and Maiden Lane

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$0	\$0	\$0	\$110	\$0	\$0	\$110	
		\$0	\$0	\$0	\$0	\$0	\$110	\$0	\$0	\$110	



**PROJECT NAME: Wagner Road Sanitary Sewer - South**

**PROJECT ID:** UT-SN-08-01  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** West  
**PRIORITY:** Desirable  
**TOTAL COST:** \$475,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

**LOCATION MAP:**

**SCOPE ITEMS:**

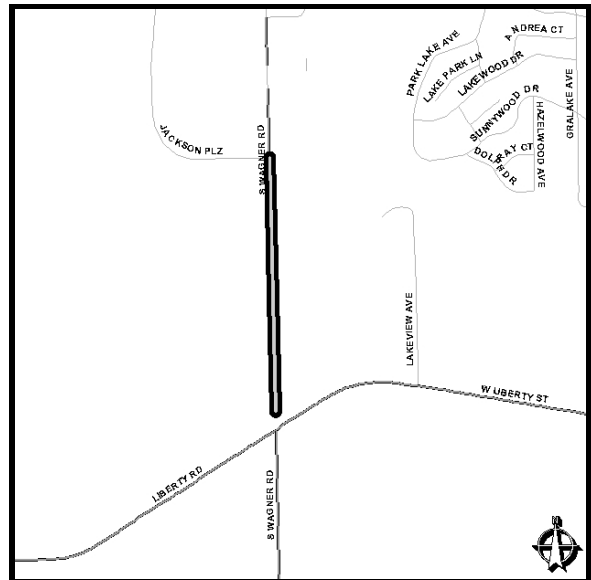
**PROJECT JUSTIFICATION:**

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 3 Protects health, safety, lives of citizens
- 2 Meets new, or maintains existing, regulatory compliance
- 1 Provides a net savings in operations and/or maintenance costs
- 0 Enhances social, cultural, recreational or aesthetic opportunities
- 3 Improves customer service, convenience for citizens
- 1 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- 4 Reduces energy consumption, impacts on the environment

**10 TOTAL SCORE**



**BENEFICIAL IMPACTS:**

Removes properties from septic systems (some of which may be failing) near Sisters Lakes

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**

**POLICY/OTHER REFERENCE:** Staff Initiated

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	9/1/2008	3/1/2009
Construction:	4/1/2009	6/30/2009

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$475	\$0	\$0	\$0	\$0	\$0	\$0	\$475
		\$0	\$0	\$475	\$0	\$0	\$0	\$0	\$0	\$0	\$475

**PROJECT NAME: Woodland Drive Sanitary Extension**

**PROJECT ID:** UT-SN-10-12  
**PROJECT TYPE:** New Construction  
**SUBMITTED BY:** PUBLIC SERVICES  
 SYSTEM PLANNING

**PLANNING AREA:** Northeast  
**PRIORITY:** Desirable  
**TOTAL COST:** \$565,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Gap in system; service request received

**SCOPE ITEMS:**

Residents indicating private systems are failing (3455 & 3511); Also extend water since doesn't exist?; Narrow right-of-way? Location of all future infrastructure items;

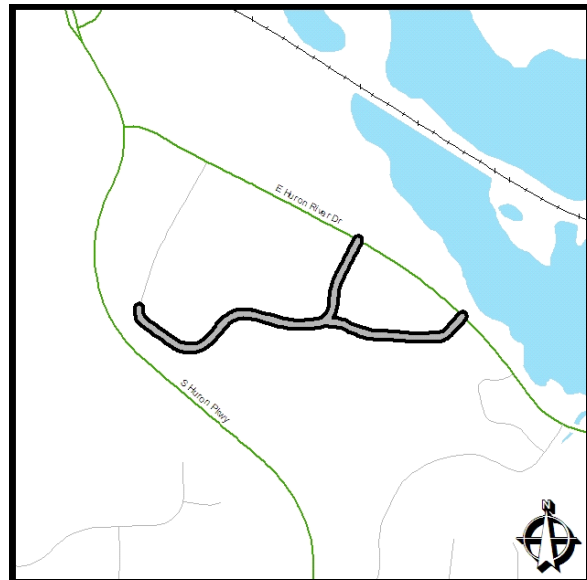
**PROJECT JUSTIFICATION:**

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 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- Protects health, safety, lives of citizens
- Meets new, or maintains existing, regulatory compliance
- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**LOCATION MAP:**



**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:		
Construction:		

**SCHEDULE JUSTIFICATION:**

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$0	\$565	\$0	\$0	\$0	\$0	\$0	\$0	\$565
		\$0	\$0	\$565	\$0	\$0	\$0	\$0	\$0	\$0	\$565

**PROJECT NAME: WWTP Bridge**

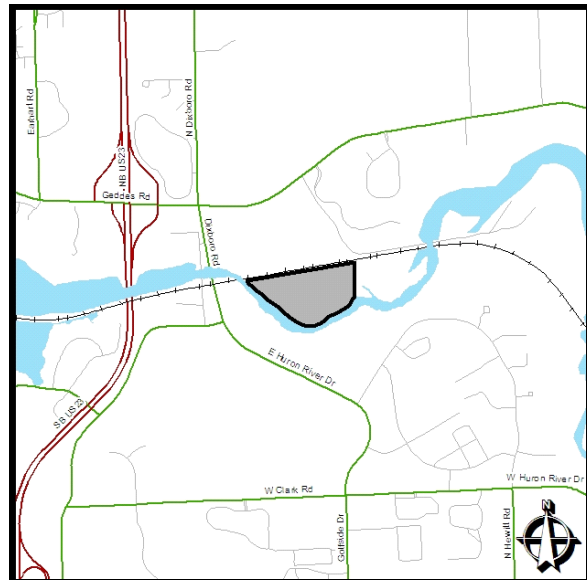
**PROJECT ID:** UT-SN-10-09  
**PROJECT TYPE:** Capital Maintenance  
**SUBMITTED BY:** PUBLIC SERVICES  
 PROJECT MANAGEMENT

**PLANNING AREA:** Ann Arbor Twp  
**PRIORITY:** Important  
**TOTAL COST:** \$600,000  
**YEARS IN CIP:**

**IDENTIFIED NEED:**

Repairs to bridge to maintain operations at WWTP (only access to property)

**LOCATION MAP:**



**SCOPE ITEMS:**

**PROJECT JUSTIFICATION:**

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-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- Protects health, safety, lives of citizens
- Meets new, or maintains existing, regulatory compliance
- Provides a net savings in operations and/or maintenance costs
- Enhances social, cultural, recreational or aesthetic opportunities
- Improves customer service, convenience for citizens
- Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
- Reduces energy consumption, impacts on the environment
- TOTAL SCORE**

**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:**  
**POLICY/OTHER REFERENCE:**

**SCHEDULE:**                      **Start**                      **End**                      **SCHEDULE JUSTIFICATION:**

Study:		
Design/Acquisition:		
Construction:		

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600
		\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600

**PROJECT NAME: Yost Sanitary Sewer**

**PROJECT ID:** UT-SN-08-13  
**PROJECT TYPE:** Replacement  
**SUBMITTED BY:** PUBLIC SERVICES  
 PROJECT MANAGEMENT

**PLANNING AREA:** South  
**PRIORITY:** Urgent  
**TOTAL COST:** \$250,000  
**YEARS IN CIP:** 0

**IDENTIFIED NEED:**

**LOCATION MAP:**

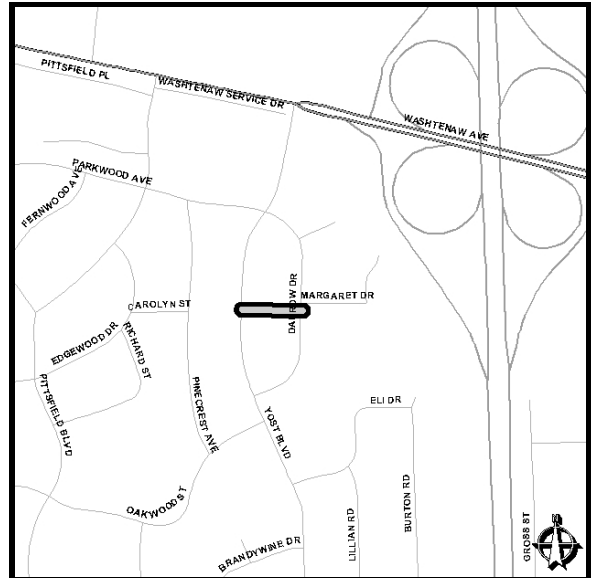
**SCOPE ITEMS:**

**PROJECT JUSTIFICATION:**

Value indicates the degree to which the project will impact the below items:

-1 = Negative Impact; 0 = No Impact; 1 = Minimal Positive Impact;  
 2 = Some Positive Impact; 3 = Positive Impact; 4 = High Positive Impact

- 2 Protects health, safety, lives of citizens
  - 0 Meets new, or maintains existing, regulatory compliance
  - 1 Provides a net savings in operations and/or maintenance costs
  - 0 Enhances social, cultural, recreational or aesthetic opportunities
  - 2 Improves customer service, convenience for citizens
  - 3 Maintains or improves existing infrastructure, facilities [Expansion = (-1)]
  - 1 Reduces energy consumption, impacts on the environment
- 9 TOTAL SCORE**



**BENEFICIAL IMPACTS:**

**MASTER PLAN REFERENCE:**

**STUDY REFERENCE:  
 POLICY/OTHER REFERENCE:**

**SCHEDULE:**

	Start	End
Study:		
Design/Acquisition:	11/1/2003	6/1/2004
Construction:	4/1/2009	4/1/2009

**SCHEDULE JUSTIFICATION:**

Use pipe bursting construction before complete collapse causes sewage spill and requires open trench replacement

Rev	Revenue Source Name	Prior Years	Funding (in thousands) *							Beyond FY15	Total
			FY10	FY11	FY12	FY13	FY14	FY15			
6907	BOND/NOTE PROCEEDS	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
		\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250