

Existing Conditions

Drainage Acres	50.8	TN Load (lbs/year)	136.1
Impervious Acres	15.2	TP Load (lbs/year)	20.2
Flood / Water Quality Treatment	0 / 0 %	TSS Load (lbs/year)	12,945

General Finding: 36 inch pipe enters directly into Big Creek just downstream of the bridge. There is a manhole on private property that would provide access to the pipe.

Proposed Conditions

Existing Storage Volume (ac-ft)	0	Pretreatment Cell (SF)	5,701
Proposed Storage Volume (ac-ft)	0.77	Wetland (SF)	27,807
Proposed Ohio EPA Water Quality Volume Met (%)	100%	TSS Load Reduction (lbs/year)	10,744
Additional Flood Control Volume (ac-ft)	0.06	TN Load Reduction (lbs/year)	35.4
		TP Load Reduction (lbs/year)	8.7

Retrofit Description

Runoff associated with small storm events will be diverted from an existing pipe into a pretreatment cell, which will allow sediment to fall out of suspension. Water will then meander through a constructed wetland, whose depth will be maintained by a flow control structure that empties into the existing stormwater pipe. Vehicle access will be provided to ensure ease of maintenance.

Planning Level Cost Estimate*

	Lower Range	Upper Range
Total Cost	\$192,000	\$304,000
Cost per Square Foot	\$5.73	\$9.08

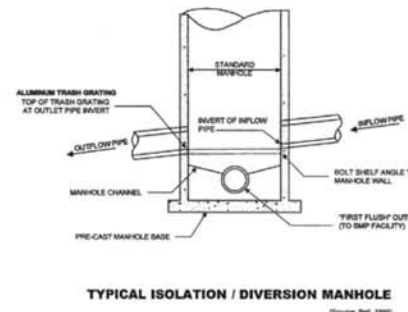
*Includes probable construction costs, design, survey, permitting, sediment testing, and a 25% contingency.



View of the site from trail.



Manhole leading to the underground pipe that will be diverted to treatment areas.



TYPICAL ISOLATION / DIVERSION MANHOLE (Source: Tetra Tech, 1996)

