

Preliminary Cost Estimate:

Conceptual Approach

Upland stormwater BMP's such as vegetative swales, dry well infiltration structures are highly needed within this extremely urban impervious drainage area of downtown Kalamazoo. Replace older catch basin structures within upland contributing drainage areas with dry well infiltration structures (could potentially be worked into upcoming roadway improvement projects). Create new vegetated filtration swales where possible.

Description	Qty.	Unit	Unit Cost	Cost
<i>Arcadia Stretch 16 - Upland Improvements</i>				
* Infiltration Structures within 156 acres of urban drainage area (assume 1 structure per 5 acres)	31	ea	\$5,000	\$155,000
vegetated filtration swales (10% of structure costs)				\$15,500
			Subtotal	\$170,500
			Contingency (20%)	\$34,100
			Engineering Fees (10%)	\$20,460
			Estimated Total	\$225,060

Notes:

- * Dry well structures alone may not be protective of groundwater in some instances. Addition of a Vortechincs "pretreatment" structure would potentially add approximately \$12,000 per structure.