

Preliminary Cost Estimate:

Conceptual Approach

Existing open space/low area located between Stadium Drive and railroad tracks, immediately southeast of Oliver St. Provide physical connection with Arcadia Creek to detain higher wet weather flows. Replace older catch basin structures within upland contributing drainage areas with dry well infiltration structures (could potentially be worked into upcoming roadway improvement projects and/or WMU campus improvement projects). Create new vegetated filtration swales where possible. Modify existing outfall structure of Goldsworth Valley Pond to increase its stormwater detention and flood storage.

Description	Qty.	Unit	Unit Cost	Cost
<i>Arcadia Stretch 13 - Off-Line Detention Area</i>				
(1.5 acres between Stadium Drive and RR tracks)				
Inflow Structure	1	ea	\$4,500	\$4,500
Excavation/Berming (avg 2ft)	2,130	ft	\$73	\$155,490
Outflow Structure	1	ea	\$3,500	\$3,500
Site Clearing & Prep	1.5	ac	\$4,500	\$6,750
Engineered Overflow Spillway	1	ea	\$4,500	\$4,500
<i>Arcadia Stretch 13 - Upland Improvements</i>				
* Infiltration Structures within 180 acres of drainage area (assume 1 structure per 5 acres)	36	ea	\$5,000	\$180,000
vegetated filtration swales (10% of structure costs)				\$18,000
<i>Arcadia Stretch 13 - Goldsworth Valley Pond</i>				
Outflow modifications for increased stormwater detention volume/flood storage	1	ea	\$4,500	\$4,500
<i>Arcadia Stretch 13 - Vegetation Restoration</i>				
Remove existing invasive vegetation and restore native species along entire corridor 1,601 ft x 2 (20 ft width)	1.5	ac	\$2,500	\$3,750

Subtotal \$380,990

Contingency (20%) \$76,198

Engineering Fees (10%) \$45,719

Estimated Total \$502,907

Notes:

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