

ID: CIP 702

Name: SW 116th Avenue Property Acquisition & Floodplain Storage

Study Area: Summer Creek

Location: SW Katherine Street and SW 116th Avenue

Problem Summary

Summer Creek flows south and east through private property into Dirksen Nature Park near SW 116th Avenue and SW Katherine Street.

Homes on the west bank were built in the 1960's. At least one home was built in the floodplain just about five feet above the creek. No water quality treatment was provided in that era.

Natural migration of the channel in its floodplain has brought Summer Creek

perilously close to this home, and the property's driveway and carport routinely flood.

Downstream, an 8-in diameter sanitary sewer main crosses under the creek.

Project Description

This project will alleviate flooding and reconnect the floodplain in the greenway.

The residential property will be acquired, and the structure will be demolished.

The site will be excavated to provide new stormwater storage in the creek's historic floodplain. A new pre-settling basin will improve water quality where the storm sewer system discharges into the creek.

The benefits of this project include:

- Reconnect historic floodplain
- Alleviate flooding of structure

- Stabilize the creek bank
- Reduce downstream erosion in Summer Creek
- Improve water quality



Cost Estimate

Design & Permitting

Design (@ 20% of Construction)	\$110,000
Permitting, Basic + Enhanced	\$45,000
Project Administration (@ 12% Construction)	\$65,000
Total Design & Permitting	\$220,000

Construction

Tool Kit	Qty	Unit	Unit Price	Amount
Aboveground Storage	63,420	CF	\$3.50	\$222,000
Pre-settling Basin, Medium Size	1	EA	\$32,000	\$32,000
Subtotal				\$254,000

Construction Administration

Mobilization (@ 10% of Construction)	\$55,000
Erosion & Sediment Control (@ 2% of Construction)	\$11,000
Temporary Water Management, Small	\$10,000
Construction Contingency (@ 40% of Construction)	\$220,000
Subtotal	\$296,000
Total Construction	\$550,000

Other Implementation

Easement or Property Acquisition	\$380,000
Environmental Mitigation	\$25,000
Total Other Implementation	\$405,000

Total Project Cost (Rounded) \$1,175,000

Funding Source

Stormwater Fund

Annual Operation & Maintenance

Operation and maintenance costs will be budgeted within the following programs:

- Ongoing routine stormwater facility maintenance program
- Proposed greenway O&M program

