Lower Mill Creek Partial Remedy

Hamilton County Board of County Commissioners Public Hearing

October 10, 2012









Today's Agenda

MSD's Recommended Alternative

Valley Conveyance System Components

Regulator Feedback

Recommended Alternative

Sub-Basin	MG CSO Reduction	Capital Cost (2006\$)	Cost/ Gallon	No. of CSOs	CSOs
Lick Run	726	\$200,492,000	\$0.28	1	5
Wooden Shoe	156	\$ 27,534,000	\$0.17 2	2	217, 483
West Fork					
Bloody Run	93	\$10,651,000	\$0.04	1	181
CSO 488 Storage	47	\$3,421,000	\$0.23	1	488
4 RTCs	737			2	5,125,482,485
Total	1,759	\$242,098,000		6	

Sustainable Alternative



From April 2, 2012 LMCPR Preliminary Findings Report

Real Time Control Facilities (CSOs)	5 ,125, 181, 482, 485/487
West Fork Channel Grate Modifications	YES
New Storm Sewers (ft)	104,400
Relocated Combined Sewers (ft)	21,500
Naturalized Channels (ft)	5,500
Valley Conveyance System (ft)	8,100
Natural Conveyance/Stream Separation (ft)	20,000
Non-Tunnel Storage Capacity (mg)	5
Additional EHRT Capacity (mgd)	20
Stormwater Detention Basins (acre - ft)	80

Phase 1 Highlights

- Kings Run Source Control & Storage
- Bloody Run, Mitchell, Ross Run RTC
- Storage at CSO 488
- West Fork Source Control, Storage & RTC
 - Lick Run Source Control & RTC

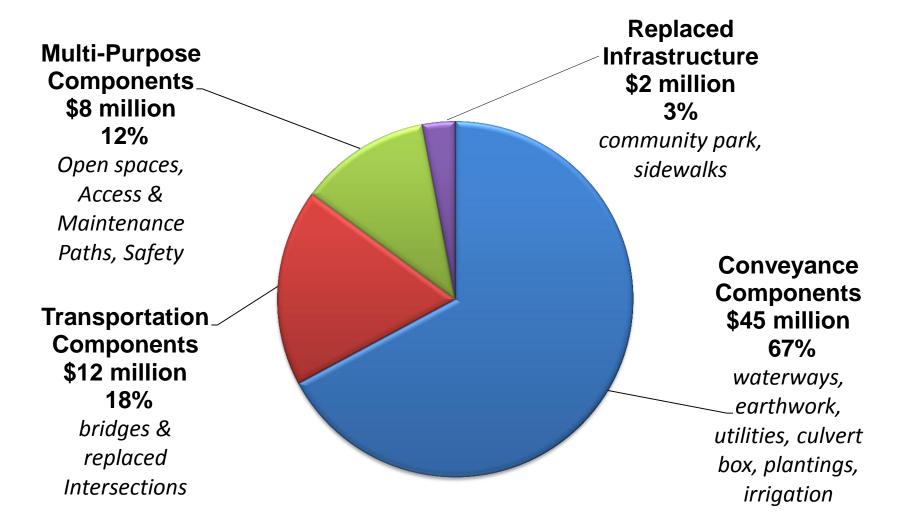
Utility Coordination

Costs included in Base Project is AFTER coordination efforts.

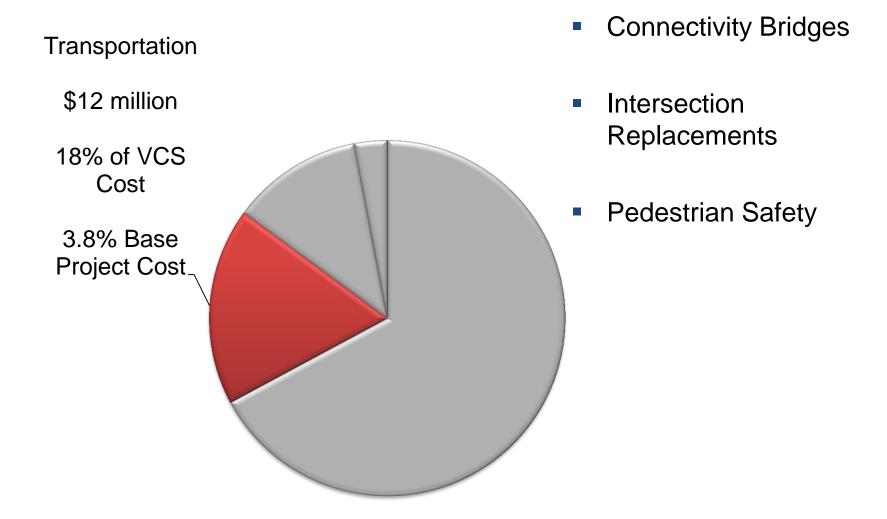
- CDOTE (projects sequencing/phasing plan)
- Hamilton County Planning (public engagement coordination)
- Duke Energy (\$400,000 avoided cost for 6,000 feet gas mains)
- Time Warner Cable (no utility impact)
- Cincinnati Bell (no utility impact)
- Greater Cincinnati Water Works (construction coordination for water main, hydrants, and valve vault improvements)

Valley Conveyance System

\$67 million



Transportation Components



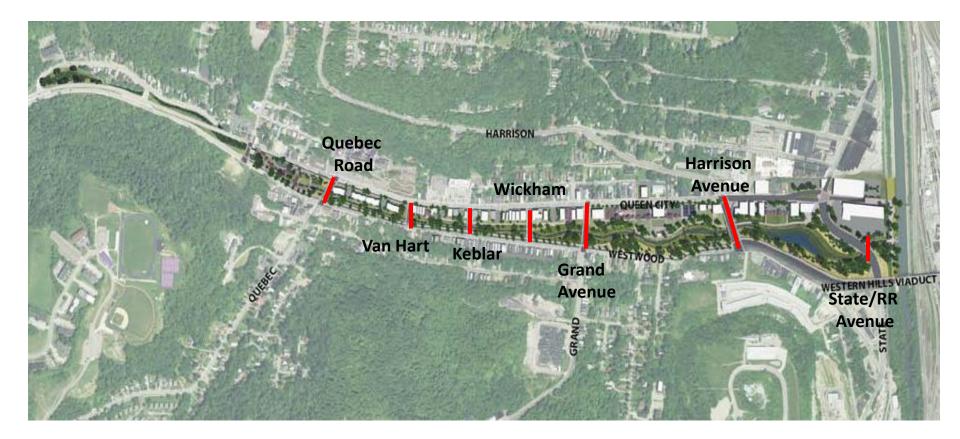
Transportation Components

Existing Roadways



Component	Cost	Description
Bridges	\$5.6 million	8 crossings of urban waterway between Queen City & Westwood Avenues
Intersection Reconnections	\$5.2 million	Elimination of Beekman Avenue between Queen City and Westwood, pavement markings, traffic signals
Streetscape & Safety	\$1.9 million	Highly visible crosswalks, signals, signage, trash receptacles, street trees & lights
Total	\$12.7 million	

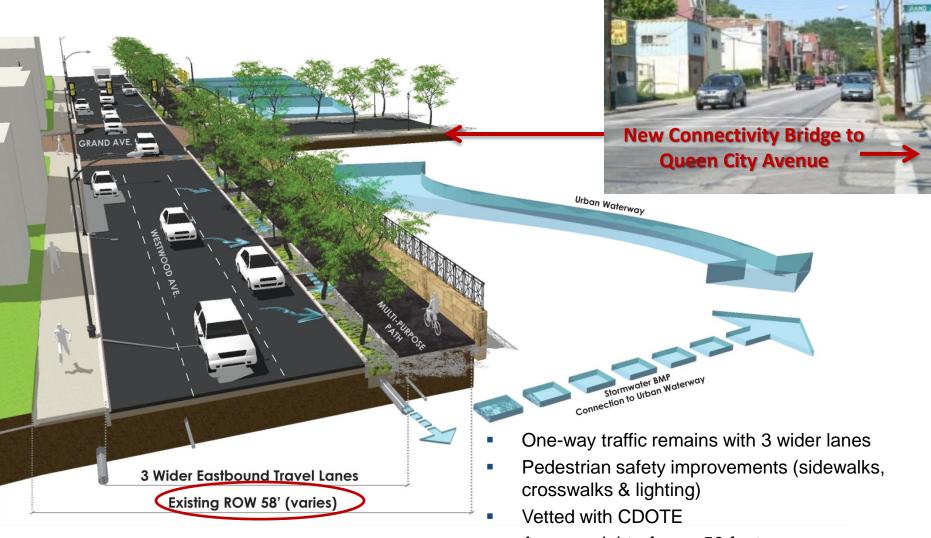
Bridges for Connectivity



- 8 crossings to maintain north-south connectivity
- Cost in base project = \$5.6 million

Transportation Related Components

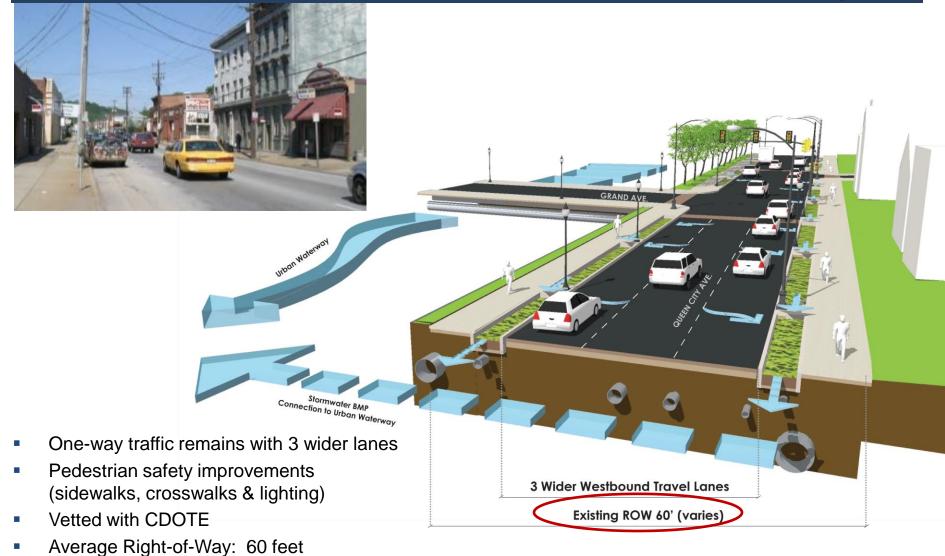
Westwood Avenue



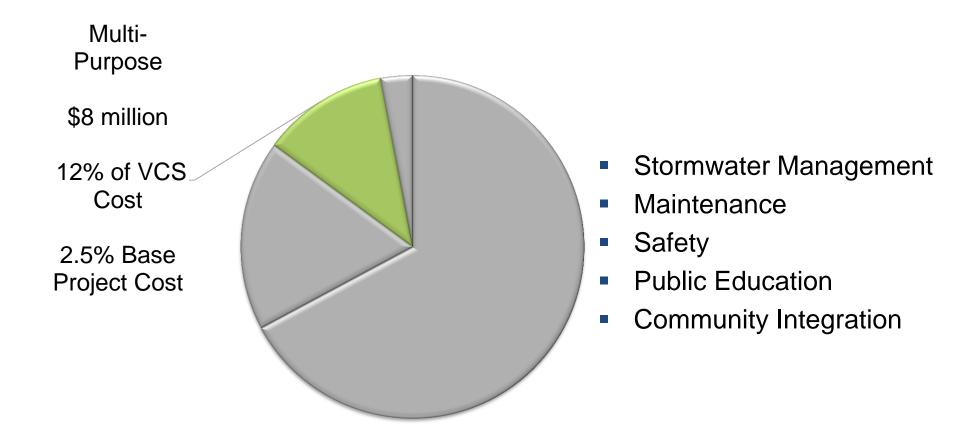
- Average right-of-way: 58 feet
- Traffic Volume: 23,000 vehicles per day

Transportation Related Components

Queen City Avenue



Traffic Volume: 16,000 vehicles per day



- Stormwater Management = \$4.3 million open spaces, roadside planters
- Maintenance Components (irrigation, access)= \$2.1 million
- Safety (lighting, railings, crosswalks) = \$1 million
- Public Education (interpretive signage) = \$230,000
- Community Integration = \$620,000

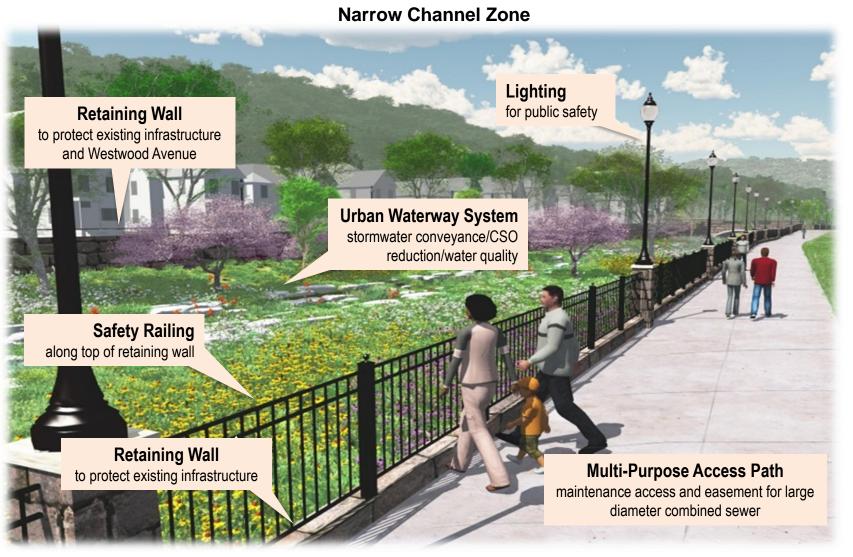
bike racks, benches, paver plazas, off-street parking



Open Spaces for Flood Control

Typical Stormwater Planters

Safety & Maintenance



Stormwater Management = \$4.3 million

open spaces, retaining wall, roadside planters

- Maintenance (irrigation, access) = \$2.1 million
- Safety (lighting, railings, crosswalks) = \$1 million
- Public Education (interpretive signage) = \$230,000
- Community Integration = \$620,000

bike racks, benches, paver plazas, off-street parking





bike racks and benches to promote public involvement, six permeable paver plazas to provide access to maintenance path from the street and to aid in slowing water down and level of peak flows, and three off-street parking lots.

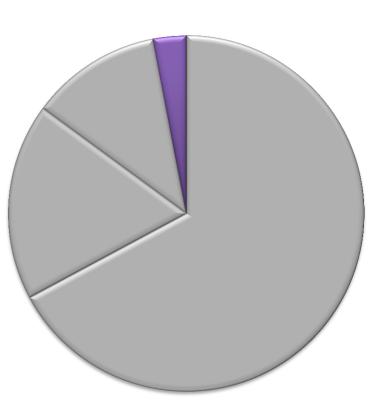
Benches

Picnic Areas

"Make Lick Run beautiful and exciting and bring it into a very urban setting, where many people can enjoy it." - *Citizen employed in South Fairmount*

Relocated Infrastructure

- Existing Sidewalks
- South Fairmount Community Recreation Park Features



Replaced Infrastructure

\$2 million

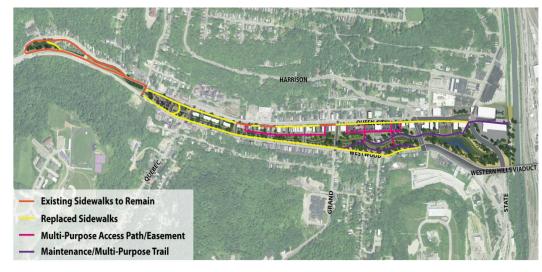
3% VCS Cost

0.6% Base Project Cost

Relocated Infrastructure

Impacted by Project





- Currently exist and disturbed by construction of project
- Sidewalks, parking lot
- Basketball courts
- Playground
- Picnic shelter/pavilion
- Cost in base project = \$2 million

Regulator Feedback

- Understand these costs are included due to the unique nature of this CSO project.
- Acknowledged the look of features is different than traditional projects in order to fit into a public setting, but it accomplishes the same functionality.
- Agreed features needed for safety or to fit into neighborhood are appropriate costs.
- Noted, in general if a feature meets test of necessary and reasonable, then it is viewed as a project cost.
- Agreed the features included for safety, maintenance access, water quality, and restoration of impacted areas would be placed into the category of "necessary and reasonable."

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