

# GI-04 Monument Square Green Infrastructure Project City of Troy



**Project Description:**

Located in a highly visible area of Downtown, home of the popular Farmers Market, will promote public education & awareness of GI. Approximately 11,543 square feet of sidewalk & 22,476 square feet of roadway would be replaced with porous pavement or pavers; which would intercept stormwater runoff & reduce flow to the CSS. It is estimated that a project of this magnitude would cost between \$1 million to \$1.5 million, dependent on subsurface percolation tests.

**Purpose:**

As part of this demonstration project, the City would like to use the project as a case study for developing a "green infrastructure banking system." Reduction of stormwater flows or loads to the CSS, thereby reserving conveyance capacity with the CSS and reducing the frequency & intensity of CSO events.

Potential repairs will reduce infiltration to the CSS, thereby reducing the frequency and volume of CSOs during wet-weather conditions. The project will also reduce exfiltration and associated risks of bacterial contamination during dry-weather conditions.

Consent Order Milestones	Date Milestone Met
Completed Plans & Specifications: 10/1/15	10/1/2015
NTP to Construction: 4/1/16	4/8/2016
Construction Completion Date: 12/15/16	11/18/2016
Operational Start-Up Date: 12/15/16	11/18/2016

SPDES Permit #	NY-009 9309
LTCP Projected Project Cost	\$108,857
Owned By	City of Troy
CSO Outfall	T-30
Grant Funding or other sources	DEC WQIP (75% / up to \$900,000)
Total Cost (minus Grant and in-kind)	\$144,914
Annual Volume Captured (Mg)	.760
Pool -wide Percent CSO Reduction (%)	.02%

**Contact Information:**

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**Project Status:**

**1/08/15:** Applied for funding in WQIP program in December '13. Estimated capture of approx. 760,000 gallons per year. During the 90th percentile rainfall event or 1" of precipitation, approximately 21,200 gallons will be captured & removed from the CSS. Since the regulators within the system typically "trip" or overflow for events ranging between 0.1-0.25" of precipitation, CSOs to the Hudson River will be reduced by roughly an equivalent volume during the 90th percentile event. Awarded up to \$904,000 in WQIP funding in October, 2014. The City is assembling contract materials for the WQIP award. CDM Smith awarded the design contract. City will be meeting with neighborhood merchants to share plans and gather input.

**3/12/15:** CDM is putting together a project scope and will submit to EFC.

**5/15/15:** CDM putting together a task order.

**6/11/15:** No update at this time.

**10/08:** Plans and specs were submitted to DEC on 10/1/14.

**1/14/16:** Plans and specs were approved by DEC. The contract for WQIP funds has been executed. The city is preparing the project for bid.

**4/14/16:** On March 22, 2016, the APCs submitted an extension request letter to DEC asking for an 8-day extension of the 4/1 NTP date. The City of Troy issued NTP on 4/8/15.

**7/14/16:** Keller construction has been awarded as general contractor for construction. The firm submitted a competitive bid for \$404,000. Engineering and project management will be roughly \$65,000. Now that funding has been closed on and the grant has been received approval processes in underway for materials and site access. Construction is expected to start in mid-August.

**3/1/17:** A "bucket pouring" ceremony was held on November 17, 2016, to commemorate completion of the project. In attendance were representatives of the City of Troy, the Downtown BID, NYSDEC, EFC, CDRPC, and Riverkeeper.

**7/13/17: Project has been completed and certified.**