



FACT SHEET

Atrium Garage Pilot Stormwater Cistern

Project Description: The Atrium Garage is a pilot Stormwater Cistern Project, which is the first of its kind to be constructed as part of the Save the Rain program. Phase 1 of this pilot project will reduce runoff by 38,400 gallons per year, by intercepting stormwater from one of the drain inlets on the top floor of the Atrium Garage parking deck. The suitability of the design will be monitored after installation so that future cistern projects can be optimized for performance.

The parking deck drains into multiple inlets on the top floor, which are conveyed by 4-inch diameter roof drains to a discharge pipe in the ground floor slab, and into the combined sewer system. By intercepting one of these 4-inch roof drains on the ground floor with a cistern tank, the discharge opening is reduced via a 1-inch diameter opening that allows the runoff to collect in the tank and slowly discharge into the combined sewer system after the rain has subsided.

The 500-gallon polyethylene cistern tank features a bypass system that allows normal flow from the roof drain when the tank is completely filled. The tank is sized to fit within a vacant area of the parking deck, so that no existing parking spaces will be lost.

The cistern has been ordered. It will be installed in the Atrium Garage in 2013.

Project:	Atrium Garage Pilot Stormwater Cistern
Project Owner:	Partnership Properties
Project Location:	201 S. Franklin Street
Sewershed:	Clinton/ Lower MIS
GI Technology:	Stormwater Detention Cistern
Capture Area:	6,000 sq. ft.
Runoff Reduction:	38,400 gal/yr
Year Contracted:	2012
Construction Cost:	\$2,875
Prime Contractor:	Plumbers Association



Prior Conditions



Conceptual Rendering of Stormwater Cistern