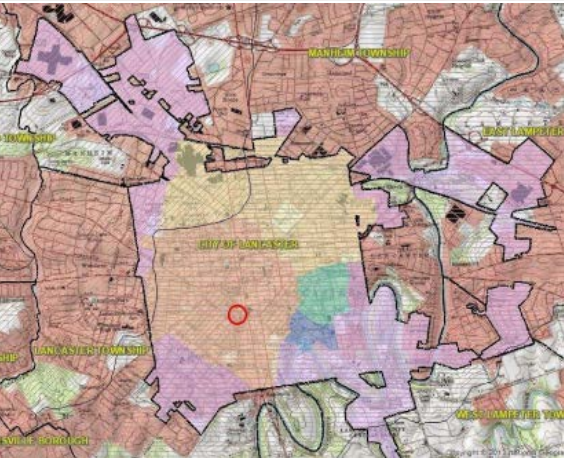




GREEN STREETS | GREEN JOBS | GREEN TOWNS INITIATIVE

The Green Streets, Green Jobs, Green Towns Partnership (G3) aims to stimulate the green jobs market and enable families to work where they live and play. Small to mid-sized communities can boost their local economies and protect water resources through the use of watershed planning, design and construction of stormwater best management practices.



CITY OF LANCASTER


Engineered Design - Green Infrastructure at Culliton Park


The City of Lancaster is planning to renovate Culliton Park, a 4.4 acre city-owned recreational facility located in the southwest area of the City of Lancaster. The park is comprised of basketball courts, a pavilion and picnic area, a child's play area, and a wading pool, and the heavily used softball field. Culliton Park and the Conlin Field are in great need of renovation. There are several safety and accessibility concerns, including no accessible walkways, curbing that precludes ADA access to pavilion and wading pool, dilapidated bleachers, a concessions building in need of repairs, lack of an accessible entrance from Fremont Street, and an unsightly perimeter fence. The lack of "eyes" on the park, and inadequate accessibility from Fremont Street, has been raised as a concern at meetings for the recent Southwest Lancaster Neighborhood Revitalization Strategy as well as an earlier southwest planning initiative.


The improvements will greatly increase accessibility and aesthetics, and will improve water quality through the increased use of green infrastructure. New walkways and paths, including an accessible gateway access from Fremont Street, will be constructed to improve circulation and allow for easier access by the residents in the neighborhood. The basketball courts will be resurfaced and include a decorative art component representing the course of the former stream that flowed through this part of the City. This art feature will also extend into the adjacent parking lot and rain gardens, providing additional education about watersheds and green infrastructure while also greatly enhancing the aesthetics of the park.

The engineered design plan built off the previously developed concept plan and includes rain gardens, stormwater swale, vegetated curb extension, and porous parking lot surface that will be connected in a series to capture stormwater.

 1 design plan created

 8 workshops with 354 attendees

 300 people with increased knowledge

 6 local green jobs supported during construction



PROJECT ELEMENTS

- **Design plan** – The design plan details improvements to the park including rain gardens and porous paving.
- **Engagement of Local Community** – This project is engaged 354 people from the local community in a workshop.
- **Green Jobs and Engagement of local businesses** — Local survey, and engineering firms, and suppliers will be used to complete the project, supporting local jobs.
- **Rain gardens** – These features filter and reduce stormwater runoff, allowing it to infiltrate into the ground before it enters into the storm drain system
- **Porous paving** – This alternative to traditional black top allows surface water to flow into the ground where the volume can be held, infiltrate into the lower soil or conveyed through a stormwater system. Porous paving is a good application for areas that require a hardscape surface and have no viable options for stormwater management. There are various applications and styles making porous asphalt a good aesthetic option as well as functional.



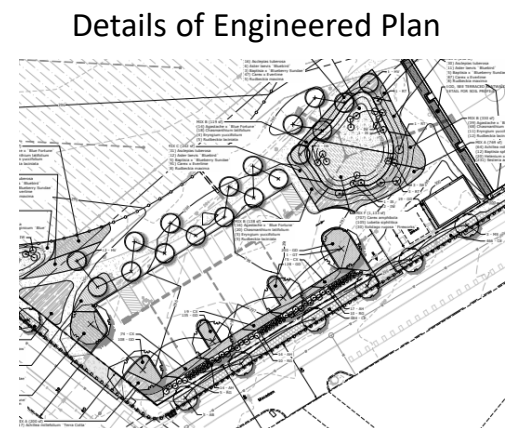
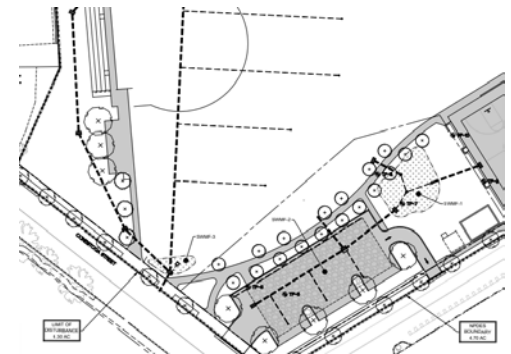
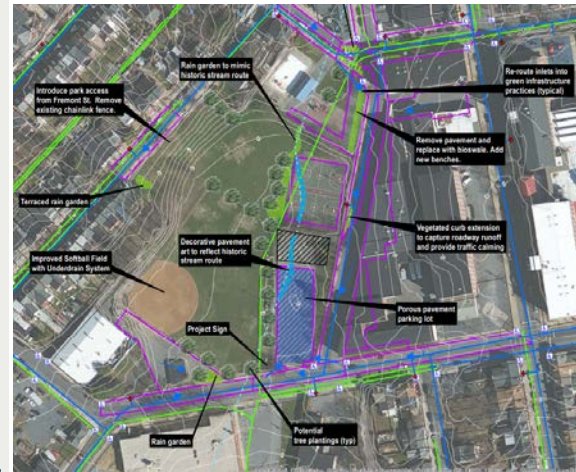
SUSTAINABILITY & GROWTH

The City is committed to ongoing innovation and implementation of green infrastructure projects.

The green infrastructure, once implemented, will result in a reduction of approximately 2.4 million gallons of runoff going into the combined sewer system annually. This amount of stormwater capture is equal to a reduction of 1.5 million gallons of combined sewer overflows, which is what occurs when severe rain events overwhelm the City's sewer system and stormwater and sewage overflow into the Conestoga River. The Conestoga River is in the Lower Susquehanna River Basin, in the Chesapeake Bay Watershed; therefore green infrastructure implemented at Culliton Park will help to reduce nutrients and sediment in not only the Conestoga River, but also the Susquehanna River and Chesapeake Bay. Managing this much runoff from almost 3 acres of impervious surfaces has additional benefits of reducing approximately 1,150 pounds of total suspended sediment, 8.6 pounds of total phosphorus, and 44 pounds of total nitrogen, annually, from the combined sewer system.

Year Awarded: 2018
Award Amount: \$30,000
Match Amount: \$42,319

Concept Plan (created prior to project)



Project Partners: Chesapeake Bay Trust, City of Lancaster, Lancaster County Conservation District, Southwest Neighborhood Leadership Board (SoWe), RGS Associates, U.S. Environmental Protection Agency, Water Street Mission