

Growing Greener Grant

Final Report

Worcester Township

Defford / Clyston Roads Retrofit Basin

Project Number: 4100080720

December 5, 2019

Project Summary

In May of 2018 Worcester Township received the executed Growing Greener Grant in association with the Defford / Clyston Roads Retrofit Basin project. The Township then started moving toward completion of the project. The Township Engineer (CKS) provided a plan set and specs for improvements to the Defford / Clyston Road Basin.

Prior to construction, the basin's function was being compromised by excess sediment and random debris that had been accumulated. The plan was to remove excess materials, regrade and install a forebay, then stabilize again with a specified seed mix and plant material.

Early in 2019 a bid packet was assembled with all project specifications and advertised for public bid in May. Bids were received prior and opened on June 5, 2019. At the June 19, 2019 Board of Supervisors meeting the contract was awarded to G&B Construction Group, Inc. A Pre-Construction meeting was held July 15, 2019 with a notice to proceed immediately following. Finally, a completion deadline was set for September 19, 2019.

Construction started several weeks following the notice to proceed. Dry conditions aided in the herbicide application and the ability to remove excess sediment and other random debris from the basin floor. Rough grading was performed per the design, which included construction of a forebay and two swales to divert water toward the outflow structure. Topsoil was respread over all disturbed areas, rip rap aprons installed, and trees and shrubs installed. The entire disturbed area seeded with a specified seed mix, then stabilized and matted as directed.

Dry conditions did not help to jump start the germination of disturbed areas. A water truck was brought in on several different days to assist. Finally Fall rains kicked in and seed started to pop. Following a few weeks of germination, E&S controls were able to be removed.

Upon completion of this project the Township is taking sole responsibility of the basin's maintenance. A functioning basin will now reduce both phosphorus and nitrogen. It will also remove nearly 20,000 pounds of sediment a year.