

Progress Report #1

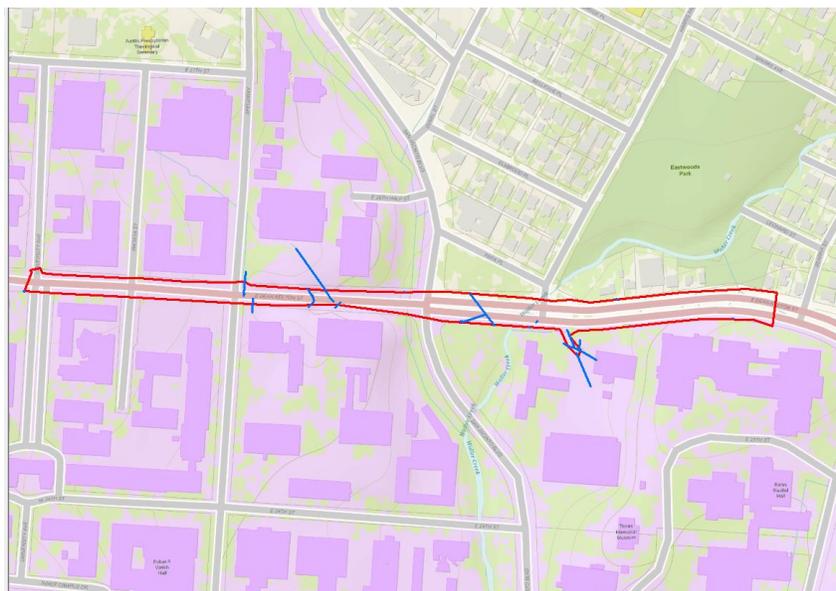
Project Overview

Our project consists of implementing a storm drainage system to reduce runoff and stormwater pollution that flows into Waller Creek. We're considering to implement this system on Dean Keeton starting highest slope from University Avenue to Beanna Street. In order to reduce pollution, we are considering to implement permeable concrete above this drainage system with considering two parking lots shown on the picture below. We also have looked into tackling the problem of clogging in our drainage by implementing grating idea in order to alleviate the clogging from the leaves, pollutants, etc. around the surrounding area.

Detailed Map



Base Map



Current State of our Research

Literature Review over Permeable Concrete Advantages and Disadvantages and

Five contacts for mentoring: Professionals and Professors

- Brandon Klenzendorf: Geosyntec Consultants – Water Resources Engineer
- Sean Van Delist: Practicing Engineer at Tex-Mix Concrete
- Dr. Baret: LID specialist
- Dr. Folliard: Concrete Durability Specialist
- Rich Rogers: Cement Council of Texas

Professional insight on permeable concrete from Sean Van Delist

Next Steps in our Project

The next steps in our project consists of four tasks:

- Learn and develop HEC HMS models
- Attend an ACI Meeting regarding permeable concrete
- Develop AUTO CAD model for our design
- Check with Professor Maidment in order to model our Storm Drain System.