

Project Status Report: CEE-2018CPST-013

Report Date: Mar 11, 2019

Team

Craig Staples, Alec Escamilla, Paul Andersen

Members:

Project Title:

Springville Performance Evaluation & Pavement Design for Minor Collectors

1) Summary of technical/non-technical challenges encountered

Last week Craig finished the Mechanistic-Empirical Analysis spreadsheet, and tested it multiple times to ensure correct values. However, without being able to meet with Dr. Guthrie during the week, further progress on estimating road layer thicknesses was not made. Alec and Paul completed their ESAL calculator, as well as took time to speak with Dr. Schultz about estimating traffic values over extended lengths of time.

2) Team approaches & resolutions to overcome challenges

Our approach to these problem was the following:
1. The biggest difficulty for this last week was finding time to meet with Dr. Guthrie. Due to busy schedules, we were not able to meet as early as we would have liked. However, Craig was able to meet with him today, and Paul and Alec will determine times later this week to meet with him.

3) Status of challenge resolutions & potential project impact

With our spreadsheets up-to-date, our next approach will be to schedule a time to meet with Dr. Guthrie to move on to the next phase of our project, which will be calculating ESALs and designing adequate road layer thicknesses. We are also still waiting on the weather before we are able to take cores from the road segments in Springville.

4) Project status & summary

While our team hopes that the weather will warm up to abate the frost, we are also preparing for the last few weeks of the semester to be the busiest. We are continuing to do all that we can by learning the design software, and factoring other parameters into our design as guided by Dr. Guthrie. We will continue to work on finding the proper axle load weights to get accurate ESALs.

Please enter # of hours spent on project this last week for each team member in the order listed above

Craig Staples: 4

Alec Escamilla: 4.5

Paul Andersen: 4.75