

Project Status Report: CPST-0 06

Weekly Mtg: EB 305 3/2/24 at 9 am

Team Members: Andrew Olsen, Becca Apgar, Caroline Preece

Project Title: Springville Bridge Crossing

1) Summary of technical/non-technical challenges encountered

- Learning now to place the two auxiliary culverts in HY-8 that will be for flood control on either side of the bridge
- Unsure how wide and large to make the bridge for accurate modeling in HEC-RAS
- After running HEC-RAS we couldn't see the results of running the program

2) Team approaches & resolutions to overcome challenges

- Send an email to Chris over in Springville to ask if there are already any designs for the bridge and if not, what the criteria are for the bridge so that we can model it accurately in HEC-RAS
- Reading the user's manual to find out how to view the results of HEC-RAS analysis

3) Status of challenge resolutions & potential project impact

- Received a response email from Chris about the proposed bridge with number of lanes, medians, bike lanes, etc... as well as general construction method (truss bridge) – we can now accurately model the bridge

4) Project status & summary

- Modeled a preliminary bridge in HEC-RAS given the specs from Chris
- Adjusted the cross sections for the bridge so that they match the bottom of the stream bed
- Ran HEC-RAS analysis with steady flow
- In process of adding the auxiliary culverts in HY-8
- Found how to access results and can see watershed and energy grade line elevations for the area around our bridge

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