

BYU ENGINEERING
Civil & Construction Engineering

CAPSTONE

Project Status Report: CPST-0 Report 14

Weekly Mtg: EB Team Study Room

Team Members: Santiago Vega, Hyeonbin Gil, Daniel Saunders, Michael Lorows

2/26/24 @ 3 PM

Project Title: Project 3: Bluffdale City Pavement

1) Summary of technical/non-technical challenges encountered

We were able to finalize the time and the date for our trip to visit the site provided by Addison. We are currently in the progress of renting a vehicle for the trip that is set next week.

2) Team approaches & resolutions to overcome challenges

We emailed the engineer that Addison referred to us. We also emailed the vehicle coordinator to rent the vehicle.

3) Status of challenge resolutions & potential project impact

We are waiting for response back from the Provo City Engineers. We are continuing to research the treatments for the pavement.

4) Project status & summary

The project is proceeding as expected, aligning well with our initial plans. Our scheduled site visit next week has been meticulously organized, ensuring that every aspect of the trip is accounted for. Additionally, we have conducted thorough research on the treatments, ensuring that our understanding and approach are well-informed and tailored to the project's needs.

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

2/14/24 Member #1: 3 Member #2: 3 Member #3: 3 Member #4: 3 Member #5: NA 1

BYU ENGINEERING
Civil & Construction Engineering

CAPSTONE

Project Status Report: CPST-0 Report 15

Weekly Mtg: EB Team Study Room

Team Members: Santiago Vega, Hyeonbin Gil, Daniel Saunders, Michael Lorows

3/4/24 @ 3 PM

Project Title: Project 3: Bluffdale City Pavement

1) Summary of technical/non-technical challenges encountered

We were planning to use the PCI to review the asphalt sites that Bluffdale provided however it was found to be too in-depth for our Capstone project.

2) Team approaches & resolutions to overcome challenges

Dr. Guthrie recommended using the PASER method for our next inspection, which is visually based. This approach will make our work more efficient and thorough. The PASER method helps us examine everything visually, making it easier to spot and understand any issues in the area we're inspecting.

3) Status of challenge resolutions & potential project impact

We will analyze the Paser method before our visits on Wednesday so that we can provide appropriate analysis to Bluffdale in our report.

4) Project status & summary

We met with our Mentor, Dr. Guthrie, and discussed a better way to visually analyze pavement. We are visiting sites on Wednesday and then creating the final report for the next few weeks.

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

2/14/24 Member #1: 3 Member #2: 3 Member #3: 3 Member #4: 3 Member #5: NA 2

BYU ENGINEERING
Civil & Construction Engineering

CAPSTONE

Project Status Report: CPST-0 Report 16

Weekly Mtg: EB Team Study Room

Team Members: Santiago Vega, Hyeonbin Gil, Daniel Saunders, Michael Lorows

3/11/24 @ 1 PM

Project Title: Project 3: Bluffdale City Pavement

1) Summary of technical/non-technical challenges encountered

Learning how to adapt the PASER method to our visited sites. A challenge is how we will present our data in poster format.

2) Team approaches & resolutions to overcome challenges

Met with Dr. Guthrie about how to perform the PASER analysis. He also provided thesis on the methods we are reviewing.

3) Status of challenge resolutions & potential project impact

We visited our sites and took photos for reference. PASER method worked well.

4) Project status & summary

In the process of analyzing photos and organizing data. Project is coming along.

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

2/14/24 Member #1: 3 Member #2: 3 Member #3: 3 Member #4: 3 Member #5: NA 3

BYU ENGINEERING
Civil & Construction Engineering

CAPSTONE

Project Status Report: CPST-0 Report 17

Weekly Mtg: EB Team Study Room

Team Members: Santiago Vega, Hyeonbin Gil, Daniel Saunders, Michael Lorows

3/18/24 @ 12 PM

Project Title: Project 3: Bluffdale City Pavement

1) Summary of technical/non-technical challenges encountered

With spring day, our progress to see the other Provo sights was delayed. We also moved back our bi-monthly meeting with Addison.

2) Team approaches & resolutions to overcome challenges

We rescheduled our biweekly meeting with Addison. We also coordinated as a group for when we can visit pavement sites in Provo with HAS.

3) Status of challenge resolutions & potential project impact

We have seen that several cities in Utah Valley prefer HAS to other methods, which prompted us to emphasize this more in our report.

4) Project status & summary

All project research has been completed and we finished the bulk of field days. We have one more field day to go look at HAS pavement in Provo and then it is compiling research into our final report.

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

3/18/24 Member #1: 3 Member #2: 3 Member #3: 3 Member #4: 3 Member #5: NA 4