Project Status Report: CEEn-2019CPST-013 **Report Date: 2/24/2020**

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Project Title: McDonald Building Parking Lot

1) Summary of technical/non-technical challenges encountered

- We need to find credible sources that can help us determine if the data we collected merits changes in the parking lot.
- We need to come up with 3 scenarios to ameliorate the current status of the parking lot. We also need to come up with a cost estimate of each scenario.
- We need to continue reading through the handouts Dr. Schultz provided to find documentation that could help back up our reasons to change.

2) Team approaches & resolutions to overcome challenges

- We did research online to see if there were any resources that can help us determine what merits a change in the parking lot. We also started looking for warrants in the MUTCD to see if a change in the layout of the parking lot was necessary to accommodate pedestrians.
- We have brain stormed 2 scenarios. We still need to draw this on autocad to provide official documents.
- We have also used a cost impact template to estimate the cost of the scenarios we have come up with so far.

3) Status of challenge resolutions & potential project impact

- We found some information in the MUTCD but nothing quite fits the problem we are facing: a large number of students crossing through the parking lot. This is a niche issue that could potentially require a new type of warrant.
- We still need to draw the scenarios on autoCAD. We are also planning on meeting the head of BYU facilities to discuss the scenarios and get feedback from them. We want to make sure that they are involved so as to be happy with the outcome.
- We also received some readings from Dr. Schultz that could apply to our study parking lot.

4) Project status & summary

- The project is still moving forward at a decent pace. The traffic counts are finished, and the data has been analyzed. We have also tracked the time it takes to walk all of the different paths and measured the slope of the ramp connecting the two lots. We are currently trying to finalize different scenarios in which the pedestrians could be more protected.

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

Member #1: 2 **Member #2:** 1.5 **Member #3:** 0 **Member #4:** 2