

Project Status Report: CEE-2019CPST-013

Report Date: 3/2/2020

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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 finalize 3 scenarios and 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.
- We need to start writing the report and start organizing our data to present it in the poster.

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 3 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 have begun drawing on CAD since we finalized the ideas for the three scenarios.
- We also began putting information into the poster and the report.
- We also found that the lower half of the parking lot does not meet standards and will have to account for that in the resolution of the scenarios.

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 the CAD drawings to present and we are putting together the shell of the report.