

EE/CprE/SE 491 WEEKLY REPORT XY

August 2019 – May 2020

Group number: 28

Project title: New Design Concept for Residential Electric Meter Adapter

Client &/Advisor: Alliant energy/Zhaoyu Wang

Team Members/Role: Zane Heifner – Communication

Brenden Koenighain- Design/Documentation

Derek Drees- Research

Austin Meyer-Testing

o Weekly Summary: We made initial contact with our advisor and client and had our first meeting with our advisor. We also set up a meeting with our point of contact with our client. We had our problem that we were meant to solve clarified during a trip to Cedar Rapids and we are meant to help with the conversion from overhead to underground delivery in residential neighborhoods. At minimum they want a new adapter but any help we can offer as far as the conversion is acceptable.

o Past week accomplishments:

- Zane Heifner: Established contact with advisor and client
- Derek Drees: Collected Iowa electrical code book and has begun initial research
- Brenden Koenighain: Assisted in establishing contact and organizing meetings
- Austin Meyer: Assisted in establishing contact and organizing meetings

o Pending issues

- We need to get ideas down on paper and begin developing the ideas themselves and look into which will be code compliant and which will not.

o Individual contributions: We all drove to Cedar Rapids to meet with our Client and get a clear idea of the problem. Derek is beginning to look into code that pertains to our project and Austin and Brenden have begun documentation such as the design document and all have participated in the various assignment to date.

o Plans for the upcoming week: We plan to brainstorm our preliminary plans and set up a 2nd meeting with our advisor for next steps now that we have a clear idea of the problem and see if they have any advice to offer. We will also finish the design document and get caught up on the documentation for the project and begin our bi-monthly meetings with Alliant.