

Project Status Report: CEEEn-2018CPST-003

Report Date: November 12, 2018

Team Members: Benjamin Arrington, Zachary Barnett, David Bell, David Blake

Project Title: Acute-UNTF Navajo House Plans

1) Summary of technical/non-technical challenges encountered

- The project scope is still uncertain due to the team not knowing how many house plans they will be given to work on.
- Soil classifications for each location are difficult to determine due to lack of geotechnical analyses.
- Due to the wide spread of locations, design criteria will vary greatly.
- Design snow loads and frost depth are required to determine design criteria.

2) Team approaches & resolutions to overcome challenges

- Paul is continuing to work with the UNTF administrator to determine how many projects we will work on. 2 plans have been delivered thus far.
- Team members will use soil conditions based off of site class D, allowed by ASCE 7 when soil conditions are unknown.
- Design snow loads and frost depth will be researched by team members for each location.

3) Status of challenge resolutions & potential project impact

- Elevations, latitudes, and longitudes have been obtained for each location.
- Snow loads and frost depth have been determined.
- Paul will help the students obtain design criteria based on these.

4) Project status & summary

- The design criteria are being researched for each of the build locations.
- Preliminary information used to obtain these values has been gathered.