



Date: 1/22/2018

Location: Office 217 (Russo's office) Engineering building

Attendees: McKenzie Moten, Yufei Cheng, Trevor Snipes

Minutes Recorded By: McKenzie Moten

MEETING OBJECTIVES

- Review survey results
- Discuss general solutions to drive way design
- Discuss the economics of the project and what we need to keep in mind throughout this semester when designing
- New technical advising agreement

OVERVIEW

5 minutes

Recalling what was accomplished last semester and the items that we will need to accomplish this semester. The biggest component that Russo would like us to consider is feasibility and life cycle costs for the different materials. The most efficient approach to succeed in doing this project is picking a cross section to evaluate when considering construction, materials, and maintenance.

Survey

5 minutes

There appears to be about a 2-3 foot difference across the entire site, which is extremely level and probably proposes minimal drainage issues. This means that our road will only need the typical 2% slope from the center and after the hydrology report the compensation for improper drainage will be accomplished by keeping/ altering the existing culverts.

Existing Conditions

5 minutes

The team needs to ensure that the existing utilities are deep enough that the material and construction is irrelevant. The boundaries of each driveway need to be defined if they are going to be altered and an apron will need to be created.

Feasible Driveway Design

5 minutes

The feedback from our presentation was to add geotextiles to our considered materials. The other considered materials are chip seal, dirt improvement, gravel, and asphalt. The client must agree that these are the options she wants us to consider because there is a time limit on the amount of materials that we can analyze.



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Economics

5 minutes

Ultimately in a situation with a client and a subcontractor as we have, in any economic analysis we are purely responsible for considering the costs. The client is responsible for determining her comfortability and other benefits that we will design too. The team needs to know these in order to optimize results and weigh factors when making a decision from alternatives to final designs.

What Needs Done before Next Meeting

5 minutes

Go evaluate the moisture content of the material and in the geotechnical sense analyze it.

Start using a program for hydrology to understand the site and what the drainage looks like before materials.

Economically have the client choose her materials of interest based off of your research from last semester and the benefits that she wishes to prioritize.

Bring Russo the new technical advisor agreement that he needs to sign