

DEVELOPMENT ACCOMMODATION REALIGNMENT STUDY

General Information

Our team's vision statement is to provide cross sectional design, and permitting documents for the Rose Creek Realignment in Riverton in a professional manner by April 2017.

The City of Riverton, Utah has embarked on a project to realign 2500ft of a natural stream to support future development as part of an agreement with landowners. For the Development Accommodation Realignment Study, our team will be analyzing a stream that runs through the city of Riverton and will determine the best possible path to realign the stream. It is proposed that the creek be aligned to its original path before it had been averted to the current position it occupies. Our team plans to map layout options for realignment, design cross section flow paths that meet stream demands, and present permitting information required to complete said project.

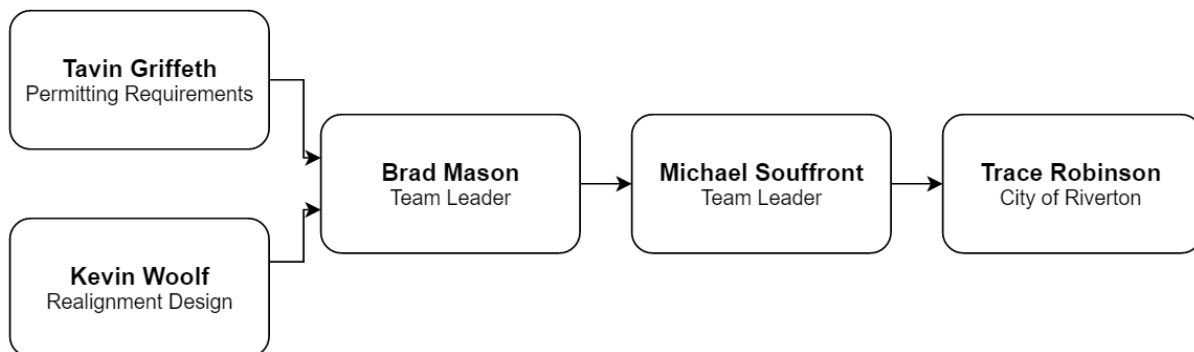
Major Sponsor Information

Trace Robinson, Riverton City
Email: trobinson@rivertoncity.com
Phone: 801-208-03162
Address: 12526 S 4150 W, Riverton, UT

Mentor Information

Michael Souffront
Email: masouffront@gmail.com
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Organizational Structure



Scope

As part of the objectives of the realignment study, a preliminary layout of the proposed stream will be presented as for the path of the new stream. Cross sections that are designed to withstand a 500 cfs flow will be presented as possible stream bed designs. A recommended cross-section based on a hydraulic analysis is also expected. The state of Utah requires different levels of authorization to alter a natural stream. The requirements to obtain authorization vary depending on the type of alteration. The entities responsible of authorizing the realignment of Rose Creek are the US Army Corps of Engineers, the State of Utah, and the Salt Lake County. A detailed outline of the requirements to get authorization from these entities will be provided. Conceptual information on maintainable trail features will be proposed as possible ideas along the stream path. Other features such as a natural soil base or concrete base can be recommended in the realignment as well.

Deliverables will include a final report produced with the detailed outline for permitting requirements, a longitudinal and cross-sectional analysis, and other considerations. Additional monthly status reports documenting challenges, solutions & progress will be provided. Bi-weekly meetings will be held every Monday and Wednesday (and Friday as needed) until final report delivery in April.

Schedule

	January	February	March	April
Watershed Model				
GIS Map				
Cross Sections				
Permitting Requirements				
Report				
Poster				

Budget

As we are students, we will not be paid monetarily. We will report our hours to our mentor and sponsor each month and at the end of the semester (estimated at about 100 hours per student). We do not anticipate any large expenses due to travel, equipment, software, and supplies. The budget will be for supplies for the poster and presentation. We will have monthly meetings with our mentor and sponsor (if available) over dinner to discuss current progress and challenges that may be foreseen. If sponsor is available for meeting, budget will be used to provide for meal.

Communication Plan

Scheduled Team Meeting/Working Times are

- Monday 3-5 p.m.
- Wednesday 2-5 p.m.
- Friday 3-4 p.m. (as needed)

All team members are required to attend Monday and Wednesday meetings to work on completing tasks as a team. Additional hours may need to be completed on an individual basis to complete assigned tasks. Team mentor is required to attend 1 hour of the scheduled meetings a week.

Work will be reported to mentor through monthly status reports documenting challenges, solutions & progress on project will be provided. Time sheets will also be submitted to mentor in this monthly report. The team mentor will submit the monthly report to the sponsor, Trace Robinson, will then approve the report and ask any questions that may be had. This project has open communication through email. The sponsor has requested that any time a question or problem may be had that email can be used at any time to communicate, The sponsor has agreed to respond as soon as possible to any inquiry.