

PROJECT MANAGEMENT PLAN

FERGUSON & TUCKETT CONSULTING

BEN TUCKETT - JOSH BELNAP - PETE KELLY - ROB NAYLOR - TYSON FERGUSON



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GENERAL PROJECT INFORMATION

A. Objective

Tuckett and Ferguson is dedicated to providing Riverton City with a roundabout design that will allow future growth in the local transportation infrastructure. The purpose of such a design will allow the city to determine when and where to construct roundabouts as opposed to traditional intersections. The project will examine the feasibility of implementing a roundabout by ensuring that it will serve local needs, such as size, right of way, and aesthetics.

MAJOR CLIENT, STAKEHOLDER, AND GENERAL INFORMATION

A. Project sponsor

Trace Robinson

Director of Public Works, Riverton City

Phone: 801-208-3137

(All communication to Mr. Robinson will be made through Mark Bentley)

B. Mentor (project manager)

Mark Bentley

E-mail: bentleyemail@gmail.com

Phone: 435-225-3904

C. Professors

Mitsuru Saito
Transportation Engineering

Office: 368J Clyde Building

Telephone: (801) 422-6326

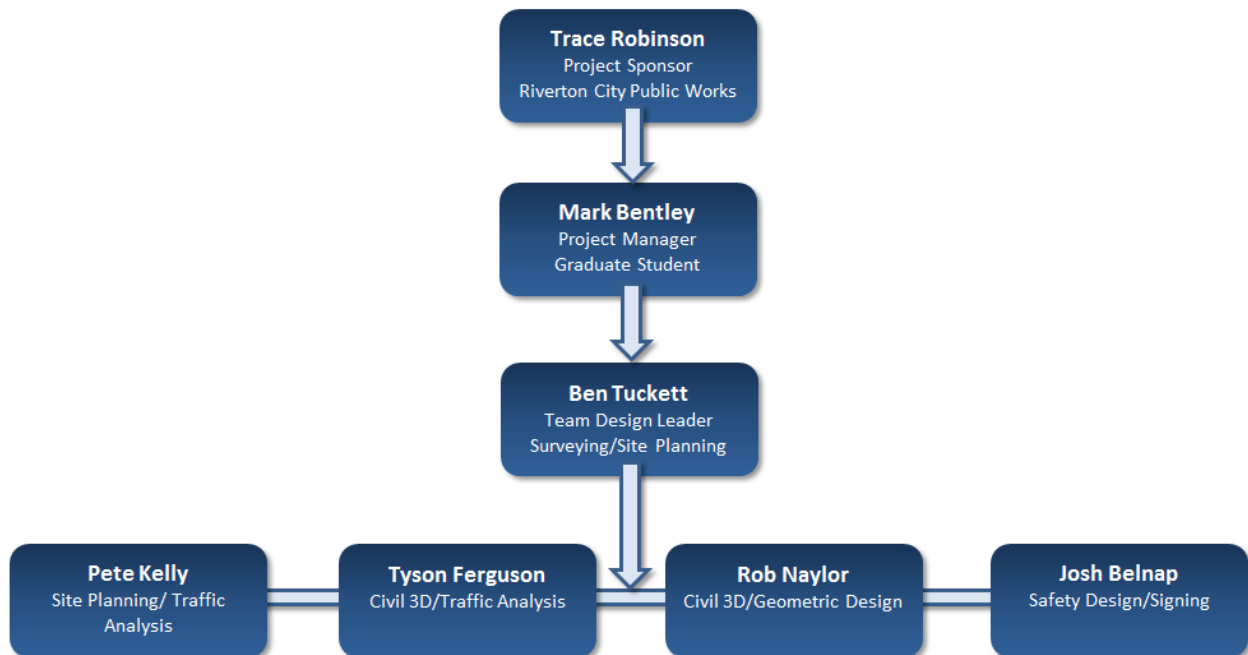
Email: msaito@byu.edu

Grant G. Schultz
Transportation Engineering

Office: 368S Clyde Building
Telephone: (801) 422-6332
Email: gschultz@byu.edu

ORGANIZATIONAL STRUCTURE

A. Organizational Chart



Work Plan

A. Key Tasks

- I. Visit site/meet project sponsor
- II. Gather traffic information (Traffic analysis; site planning)
 - i. Design layout in Synchro
 - ii. Input projected traffic data
 - iii. Produce Trip Generation Forecast
- III. Design Roundabout (Civil 3D design)
 - i. Create vertical alignment
 - ii. Create horizontal alignment
 - iii. Draw corridor cross sections
 - iv. Compile components
- IV. Create poster
- V. Write Final Report
- VI.

B. Key Disciplines

- I.

C. Technical Help

Help will be sought from the project manager, Mark Bentley, who will also be working closely with project sponsor, Trace Robinson. Any questions on traffic analysis, site planning, or Civil 3D will be directed toward Dr. Grant Schultz or Dr. Mitsuru Saito. The group will also use transportation literature and Civil3D tutorials online.

D. Other Materials/Resources

PROJECT SCHEDULE

A.

PROJECT BUDGET

Due to the services provided by the team it will be necessary to charge a fee based on the average hourly wage of an entry-level civil engineer. It is anticipated that each member of the team will spend six hours a week on the project for 12 weeks of the semester. The cost and calculations are listed below:

(6 hours per week per member) x (12 weeks) = 72 total estimated hours per team member

The average entry level civil engineer hourly wage is \$23.00

Estimated cost per team member is \$1,660

Also it is expected that we will need to travel to Riverton from Provo and back again several times during the design and data collecting phases. With the gas prices and distance from Provo to Riverton (30 miles) it is estimated that the cost per round trip will be about \$8.00. With about 3 estimated trips need the transportation cost is about \$24.

There is the possibility of the need of surveying and traffic counting equipment in order to collect the necessary data for the design process. This equipment could be rented from BYU. This value is estimated to be about \$100.

Other miscellaneous costs (office supplies, print-outs, etc.) are estimated to be \$20.

The summary of the expected design budget is provided:

Salaries of Team Members

| | |
|----------------|----------------|
| Ben Tuckett | \$1,660 |
| Josh Belnap | \$1,660 |
| Pete Kelly | \$1,660 |
| Rob Naylor | \$1,660 |
| Tyson Ferguson | \$1,660 |
| Total | \$8,300 |

Other Costs

| | |
|------------------|--------------|
| Transportation | \$24 |
| Equipment Rental | \$100 |
| Miscellaneous | \$20 |
| Total | \$144 |

Total Cost of Engineering Design **\$8,444**

COMMUNICATION PLAN

A. Hours each member plans to work during the week (regular schedule)

Each team member has committed to work on the project every Monday, Wednesday and Friday from 3-5 P.M. Most of this time will be group work until we get more specialized tasks.

B. Method of weekly accounting of time and effort and how it will be reported to Project Manager.

Josh will report to Mark the hours worked of each member and what tasks were accomplished during the week.

C. Project team meeting time/place

The team will meet each Monday, Wednesday, and Friday at 3:00 in room 270 of the Fletcher Building unless he has an individual task to work on.

D. Other information to keep team organized

Any questions about a change in the normal schedule we will communicate through Ben.