

**ALFRED BENESCH & CO.
SCOPE OF WORK
COLORADO BLVD & ROOSEVELT PKWY INTERSECTION ALTERNATIVES**

INTRODUCTION

Alfred Benesch & Company (CONSULTANT) will provide engineering services included in this scope of work to the Town of Johnstown (OWNER). The CONSULTANT will provide roadway and traffic design for an alternatives analysis (Signal or Roundabout) and Option Report for Colorado Blvd / Roosevelt Pkwy in Johnstown.

PERFORMANCE PERIOD

It is assumed this scope of work will be completed by December 31, 2023.

ASSUMPTIONS

- Project will investigate alternatives (roundabout and signal) for intersection improvements at Colorado Blvd and Roosevelt Pkwy near the new Roosevelt High School.
- Designs will be based on Colorado Blvd's ultimate configuration from town development plans.
- Traffic modeling will be performed to determine alternatives and potential signal timing.
- Roundabout alternative will be based on CDOT Roadway Design Manual Chapter 9.
- Concept design for the ultimate intersection is included to determine pole locations or roundabout entries/exits.
- Traffic counts to be collected by All Traffic Data (ATD).

OWNER will be providing:

- Adjacent development plans
- High school anticipated attendance

Tasks by the CONSULTANT include the following:

1. PROJECT INITIATION AND CONTINUING REQUIREMENTS

As part of the project initiation and continuing requirements, CONSULTANT will perform the following:

- a. Initial Project Meetings. The CONSULTANT will conduct an internal project kick-off meeting in accordance with our quality management requirements. Select team members will attend an initial project meeting with CLIENT/OWNER.
- b. Progress Meetings. CONSULTANT will meet weekly. A total of 4 progress meetings **by video** are included in this scope of work. These progress meetings will be used to coordinate and track the work effort and resolve problems.
- c. Identify Design Criteria. Review and confirm design criteria.
- d. Project Management. The CONSULTANT PM will coordinate the work tasks being accomplished by the CONSULTANT to ensure project work completion stages are on schedule. Project staffing and assigning tasks, scheduling and invoicing are included within this task. Coordination with owner, project team and stakeholders on critical issues.

2. ALTERNATIVES ANALYSIS

- a. ATD will conduct a 13-hour existing traffic movement count at the intersection, this data will be collected on a day in which Roosevelt High School and Elwell Elementary School are in session (Monday-Thursday).

- b. Review existing data and proposed development plans.
- c. Develop future, 20-year, traffic projections for the intersection.
- d. Develop a traffic model to inform the alternatives analysis (Signal and Roundabout). The model will analyze existing conditions and future conditions based on projected volumes. Models will be constructed using Synchro 11, SimTraffic 11, and HCS 2022 software.
- e. Conceptual horizontal layout of ultimate Colorado Blvd roadway alignment, lanes, and sidewalks, based on available plans and Town standard typical sections.
- f. Conceptual layout of two intersection alternatives: Signal and Roundabout.
- g. The CONSULTANT will develop an Options Report comparing the two alternatives which will include a narrative, impacts associated with the alternatives, conceptual cost estimates and exhibits depicting them. Impacts will be based on publicly available utility and property data.
- h. Submit Options Report to the OWNER. CONSULTANT will develop a handout for the Town Council.
- i. The CONSULTANT will attend a Town Council meeting (if requested) and select a preferred alternative in consultation with the OWNER.
- j. Submit final report with the options and preferred alternative.

3. BENESCH EXCLUSIONS

The following are not included in Benesch's scope and their inclusion is subject to a change in scope, schedule and/or fee: Value Engineering workshops, environmental investigations, utility design, railroad coordination and submittals, structural design, geotechnical investigation, topographic survey, ROW plans, and permit applications. Preliminary and final design, plan sets, and bid documents will be subject to another task order following the selection of a preferred alternative.

Colorado Blvd / Roosevelt Pkwy Alternatives Analysis Design Fee

Town of Johnstown

8/30/2023	ALFRED BENESCH & CO.										
	Sabo	Kenny	Salek	Hebert	Olson	Moschovich					
	Senior Project Manager	Project Assisst II	Senior Project Manager	Designer II	Senior Project Manager	Project Manager I	Benesch Total Hours	Benesch Labor Fee	Benesch Mileage / ODC	Sub Consultants	Benesch Sub-Task Fees
Hourly Rates:	\$ 215	\$ 89	\$ 215	\$ 115	\$ 215	\$ 150					
Subs											
All Traffic Data										\$ 2,000	\$ 2,000
1) Project Management											
a) Initial Project Meetings						4	4	\$1,460	\$ 73		\$ 1,533
b) Progress Meetings						4	4	\$1,460			\$ 1,460
c) Identify Design Criteria				1			1	\$365			\$ 365
d) Project Management	3	3	1			12		\$3,707			\$ 3,707
2) Alternatives Analysis											
a) Traffic Counts							1	\$150			\$ 150
b) Review Existing Data							4	\$600			\$ 600
c) Traffic Projections							2	\$300			\$ 300
d) Traffic Modeling				2		16	18	\$2,630			\$ 2,630
e) Colorado Ultimate Layout			4	4	6	8	22	\$3,810			\$ 3,810
f) Alternatives Layout			2	8	3	32	45	\$6,795			\$ 6,795
g) Options Report			2	4	3	16	25	\$3,935			\$ 3,935
h) Submittal					2	4	6	\$1,030			\$ 1,030
i) Town Council Meeting					4	4	8	\$1,460	\$ 73		\$ 1,533
j) Final Report			2		2	4	8	\$1,460			\$ 1,460
Subtotal	3	3	12	18	40	100	176	\$ 29,162	\$ 146	\$ 2,000	\$ 31,308

TOTAL FEE \$ 31,308