

Wayne County High Accident Location Study

Task 6233

Scope of Work

A. Objective

To analyze the crash data of all the intersections under the jurisdiction of the Wayne County Highway Department and develop a listing of priority intersections based on crash rates.

B. Background

The Wayne County Highway Department is responsible for over 500 intersections along the 406 miles of County highways. The County has never prepared a comprehensive assessment of the safety of these intersections. This study will allow the County to utilize the findings to prioritize safety improvement locations and to strategize appropriate mitigation measures.

C. Tasks

C.1. Project Coordination

The Consultant will coordinate all project activities with Wayne County Highway Department staff who be responsible for acting as the primary point of contact and liaison with the Consultant to ensure timely completion of all project work tasks in a quality manner. The Consultant will be responsible for scheduling, preparing agendas and materials, leading, and developing summaries of any necessary meetings. Additional discussions via teleconference may be held as necessary between the Consultant, Wayne County, NYSDOT and GTC staff. Proposing firms will identify the number of coordination meetings needed to meet the study objective.

Deliverable(s): Coordination meeting agendas, materials, and summaries.

C.2. High Accident Location Identification

The Consultant will analyze the intersections county-wide by calculating crash rates at intersections, systemic analysis of crash types and facilities, or another appropriate methodology. They will develop a list of candidate intersections for investigation for review by Wayne County Highway Department staff.

To support this analysis, Wayne County will provide the Consultant a list of intersections that are under the jurisdiction of the County and associated roadway volumes. GTC staff, on behalf of Wayne County, will provide police accident records and tabular data for each location for a five-year study period from the NYSDOT Accident Location Information System (ALIS).

Deliverable(s): List of candidate intersections for investigation.

C.3. High Accident Location Analysis and Recommendations

C.3.1 Crash History & Summary Sheets

A crash history summary table will be compiled utilizing NYSDOT Form TE-213 for each site and for each intersection within the study area. Crashes can also be sub-grouped by type, direction, or circumstance, etc., as necessary to further clarify the crash history, as appropriate.

Deliverable(s): TE-213 Form and Summary Sheet for each site

C.3.2 Collision Diagrams

A collision diagram is required for each investigation site utilizing aerial background images. Each sheet will show study number, location data, time period, and a north arrow in addition to the accident information.

A list of standard crash descriptions and associated crash symbols will be supplied by Wayne County. Multiple crash of similar type, direction, and location can be denoted by one crash symbol followed by the associated numbers of crashes.

Deliverable(s): Collision diagram(s) for each site

C.3.3 Accident Rate Calculations

An accident rate calculation and associated comparison with the appropriate Statewide average must be done for each site based on the total study area or intersection, as appropriate. Rates will be calculated in Accidents per Million-Entering-Vehicles (Acc/MEV). Wayne County will provide traffic volume data for the calculations, where not available through NYSDOT.

Deliverable(s): Accident Rate calculation(s) for each site

C.3.4 Sight Distance Determination

With approval of Wayne County, the consultant will conduct field site visits, if warranted, to determine the sight distance at an intersection or driveway, in accordance with the MUTCD §203.3.

Deliverable(s): Documentation of sight distance measurements.

C.4. Recommendations

The consultant shall provide narrative site recommendations for any potential improvements that would aid in the future crash reduction for all identified patterns.

Deliverable(s): Narrative site recommendations.

C.5. High Accident Locations Report

Incorporating the deliverables from Tasks C.1. through C.4., the Consultant will develop the draft *Wayne County High Accident Location Study* report. The Consultant will provide the draft report for Wayne County review and comment.

Based upon Wayne County comments, the Consultant will produce the final *High Accident Location Study* report and an Executive Summary suitable for distribution to and use by decision makers and others with limited technical transportation backgrounds.

The Consultant will prepare a report for each crash site consisting of the following documents or data:

1. Cover Sheet
2. Location Map
3. Accident History
4. Accident Summary Sheet(s)
5. Collision Diagram(s)
6. Accident Rate Calculation(s)
7. Sight Distance Determination (if warranted)
8. Recommendations

Deliverables: Draft Report incorporating the deliverables from Tasks C.1. through C.4., Final Report, and Executive Summary.

D. Products

The Consultant will provide the following documents upon completion of this study;

1. Draft Report to be reviewed by Wayne County.
2. Final Report and Executive Summary on findings and recommendations – electronic copy and one hard copy.

E. Public Participation Plan

This project is considered to be Technical/Data Collection in nature and thus will not require public input. The completed report will be presented at a Wayne County Public Works Committee meeting and the Executive Summary will be placed on the Wayne County Highway Department and Genesee Transportation Council websites.

F. Schedule

It is anticipated that this project will be progressed on the following schedule:

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|---|-------------------|
| 1. Scope of work approved | July 2019 |
| 2. Consultant selection completed | September 2019 |
| 3. Project initiation meeting | October 2019 |
| 4. Perform data acquisition and field reviews | Nov 2019-Feb 2020 |
| 5. Provide location-specific recommendations | March 2020 |
| 6. Develop and evaluate countermeasures | April 2020 |
| 7. Draft Report completed | May 2020 |
| 8. Final Report completed | June 2020 |
| 9. Financial closeout | July 2020 |

G. Project Budget

Sources of Funds		Uses of Funds	
	<u>FY 2019-20</u>		<u>FY 2019-20</u>
<u>Federal Funds</u>		<u>GTC</u>	
FHWA	\$50,000	Staff	\$0
FTA	0	Contractual	0
Subtotal	<u>\$50,000</u>	Subtotal	<u>\$0</u>
<u>Matching Funds</u>		<u>Other Agency</u>	
State (In-kind)	\$0	Staff	\$0
Local (In-kind)	\$5,000	Contractual	\$50,000
Local (Cash)	\$0	In-kind Exp.	\$5,000
Subtotal	<u>\$5,000</u>	Subtotal	<u>\$55,000</u>
<u>Total</u>	<u><u>\$55,000</u></u>	<u>Total</u>	<u><u>\$55,000</u></u>