



February 24, 2000

Mr. Karl C. Wetherholt, PE  
City Engineer  
200 South Hamilton Road  
Gahanna, OH 43230

Re: Hamilton Road/Morrison Road Intersection Modification  
US 62/Stygler Road Signal Modifications  
Cost Proposal

Dear Mr. Wetherholt:

Thank you for your request for a proposal to provide consulting engineering services for the above referenced projects. We have formulated the following scope of services and fee arrangement for your consideration.

**Hamilton Road/Morrison Road Intersection Modification**

Upon your authorization, EMHT will prepare signal modification, and signing and pavement marking plans to implement operational changes that were recommended in our study of the intersection submitted January 11, 2000. This plan will specify temporary barriers and other measures to convert the west leg of the intersection to right turn in/right turn out operation and change the operation of the traffic signal to take advantage of the limited movements. Devices installed under this plan will be removable if necessary at the end of a trial period. City maintenance personnel or contractors are expected to perform the actual installation of the devices detailed on the plan and no bidding of the work has been included in this proposal.

Once the temporary devices have been installed and operations have stabilized, EMHT will perform field data collection, analysis, and related tasks to evaluate the revised intersection operations at the Hamilton Road/Morrison Road intersection. The goal of the work will be to assess the implemented improvements and determine whether performance has been measurably enhanced. A letter report summarizing the study methodology and conclusions will be prepared and submitted for review.

If the trial measures perform acceptably then EMHT will, under separate authorization, prepare plans and specifications for the construction of a permanent raised island on the west leg of the intersection and radius improvements in the northwest, southwest, and southeast quadrants. Plan preparation is expected to include survey, utility research, detailed intersection design, drainage design, signing and pavement marking and related tasks. Bid documents will not be prepared. Right of way drawings, or descriptions of right of way or easement acquisition areas can be prepared under a separate fee agreement if needed but are not a part of this proposal.

We propose to perform the services related to the signal modifications, and signing and pavement marking improvements for the temporary installation for a lump sum fee amount of \$4,500.00. Monitoring after implementation and reporting of results will be performed for a lump sum fee of \$2,000.00. We propose to perform the services related to preparing construction plans for the permanent raised island and radius improvements as described above for a lump sum fee amount of \$9,500.00.

**EXHIBIT A**

**US 62/Stygler Road Traffic Signal Improvements**

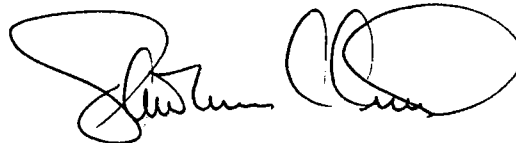
Upon your authorization, EMHT will prepare construction plans and specifications for the improvement of the existing traffic signal installation at the US 62/Stygler Road intersection. The design will include mast arm supports, modification of the existing signal controller cabinet to accommodate fiber optic interconnect, placement of fiber optic cable in existing conduit along US 62 between Ridenour Road and Stygler Road, and the addition of internally illuminated signs at the intersection. Design will be coordinated with the landscape master plan being developed by Myers-Schmalenberger. A video vehicle detection system will be designed for the intersection in lieu of traditional inductive loop technology.

An improvement concept will be developed for the south leg of the intersection to assist in the placement of signal supports and other features but detailed design for construction of south leg improvements is not a part of this proposal. Construction plans will be suitable for bidding by the City and no services related to advertisement, preparation of bid documents etc. is included in this proposal.

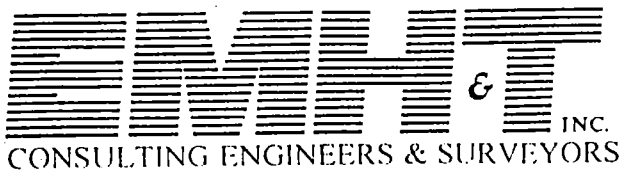
We propose to perform the services related to preparing construction plans for the US 62/Stygler Road improvements as described above for a lump sum fee amount of \$19,800.00.

Again, thank you for your consideration of EMH&T for this work. If any questions arise during your review of this proposal, please contact us at our Gahanna office at your earliest convenience.

Very truly yours,  
Evans, Mechwart, Hambleton, and Tilton, Inc.



Lawrence C. Creed, PE  
Project Manager



February 7, 2000

Mr. Karl C. Wetherholt , PE  
City Engineer  
City Of Gahanna  
200 South Hamilton Road  
Gahanna, OH 43230

**Re: Gahanna Signal System Study**

Dear Mr. Wetherholt:

We are pleased to submit this proposal to provide consulting engineering services for the above referenced signal system. We have developed a scope of work and associated fees for your consideration. Upon your authorization EMH&T will perform a signal system study for the corridors of Hamilton Road and Granville Street in Gahanna, Ohio. The study will include the existing signalized intersections on Hamilton Road between Interstate 270 eastbound ramps and Clark State Road and the signalized intersections on Granville Street between Stygler Road and Hamilton Road.

### **Scope of Work**

EMH&T will perform up to twenty-four manual turning movement counts: twelve morning peak hour counts and twelve afternoon peak hour counts. The manual turning movement counts will be performed at signalized intersections within the specified study area. Additionally two 24 hour mechanical traffic counts: one on Hamilton Road and one on Granville Street will be performed. The results of this data collection program will provide the foundation for this signal system study. Existing signal timings (provided by the City of Gahanna), existing vehicle detection locations and existing geometrics will be used in combination with the said traffic counts to produce optimized, coordinated signal timings plans. Two timing plans will be prepared: one for the morning peak hour and one for the afternoon peak hour. Synchro (traffic signal timing software) will be used in the development of these optimized timing plans.

A letter report will be submitted to the city explaining the study procedure, findings and recommendations.

### **Cost Proposal**

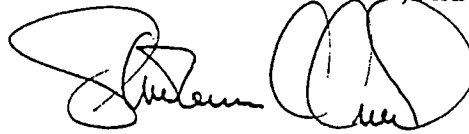
EMHT proposes to perform the services described above for a lump sum fee amount of \$7,600. Additional timing plans can be added to the project for a lump sum fee amount of \$3,250 per timing plan. The proposed fee does not include the cost of implementation.

Mr. Karl C. Wetherholt , PE  
February 7, 2000

Gahanna Signal System Study  
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Please review this proposal and advise us of any comment you may have. If any questions should arise during your review of this matter, please contact me at our Gahanna office at your convenience.

Very truly yours,  
Evans, Mechwart, Hambleton, and Tilton, Inc.

A handwritten signature in black ink, appearing to read "Lawrence C. Creed", written over a circular stamp or seal.

Lawrence C. Creed, PE  
Project Manager

LCC/JDS/js