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October 03, 2022

Mrs. Michelle Dunson, PE  
Deputy City Engineer  
100 Hughes Road  
Madison, AL 35758

**Re: Proposal for Professional Engineering Services  
Intersection Improvements at Wall Triana Highway and Gillespie Road  
City of Madison  
Madison County, Alabama**

Dear Mrs. Dunson,

CDG, Inc. (CDG) is pleased to submit this proposal for the intersection improvements at Wall Triana Highway and Gillespie Road. We understand the importance of this project to the City and how it will help create better connectivity for pedestrians to the intersection as well as improving existing traffic signal items.

#### **SCOPE OF WORK**

Generally, the scope of work includes analysis of the existing intersection conditions and development of an upgraded signalized intersection. Additionally, it is the intention to design and develop a plan set appropriate for letting the project if the City desires. This scope includes field survey, traffic signal design, and design plans. We understand the project will be funded by the City of Madison and will satisfy Madison City Engineering standard specifications and details.

More specifically, CDG will provide engineering services as outlined in the "Attachment A – Scope of Work" document attached to this proposal letter.



**Budget**

CDG proposes to complete the noted scope of services according to the schedule below, to be paid periodically as work progresses:

Scope of Work	Proposed Fee (Lump Sum)
Field Survey (Supplemental)	\$3,000
Traffic Signal Design Plans	\$25,100
Letting Assistance & Contract Procurement	\$3,300
<b>Total Project Cost</b>	<b>\$31,400</b>

We appreciate the opportunity to submit this proposal and are very excited to work with you on this project. If you have any questions, please don't hesitate to call.

Sincerely,  
CDG Engineers & Associates, Inc.

A handwritten signature in black ink, appearing to read "Adam Crenshaw", written over a horizontal line.

Adam Crenshaw, CPESC, CFM  
Project Manager

A handwritten signature in black ink, appearing to read "Matt Hawes", written over a horizontal line.

Matt Hawes, PE  
Transportation Practice Leader

Enclosures: Attachment A – Scope of Work



## Attachment A – Scope of Work

Intersection Improvements at Wall Triana Highway and Gillespie Road

Project No. R929122555

Madison City

Madison County, Alabama

### Project Overview and Scope

CDG, Inc. (CDG) has been contacted by Madison City (City) to design intersection improvement at Wall Triana Highway and Gillespie Road as part of an ongoing utility design project. The existing intersection consists of four legs with two (2) signal poles supporting two (2) mast arms per pole located in the Northwest and Southeast quadrants of the intersection. The existing intersection lane configuration includes left turn lanes on all four (4) legs and the eastbound leg having a dedicated right turn lane. The scope of the requested intersection improvements are as follows:

- Evaluate the existing pole layout and assure the poles are properly located based on recommended setbacks from the traffic signal design guide.
- Develop a signal layout sheet to include all the necessary signal items that would be required for a four-legged, mast-arm intersection including upgraded video detection and pedestrian signal heads.
- At the request of the City, the upgraded signal design will utilize the current signal timings and the City will make field adjustment during construction based on field observation following signal activation.
- Evaluate the existing sidewalk configuration and make any necessary adjustments for connectivity to the intersection. Adjustments include:
  - ADA sidewalk ramps at sidewalk connections to the intersection.
  - Striping plan for cross walks.
- Relocate the existing overhead communications cable to underground conduit.
- Replace the existing pole mounted controller cabinet with a base mounted controller cabinet.

### Field Survey (Supplemental)

CDG has performed some survey at the intersection but will need to supplement that due to ongoing construction in the Northwest Quadrant of the intersection. CDG will provide supplemental topographic and location survey of the subject area in accordance with the Standards of Practice for Land Surveying in the State of Alabama. This survey is anticipated to include the following:

- All existing right-of-way lines and property lines within the limits of the scope will be established using publicly available deeds and plats. No boundary survey is anticipated and therefore is not included in this scope of work.
- Visible sanitary sewer and storm drainage structures will be traced one structure outside the project area with invert, top and pipe size dimensions gathered.
- All man-made improvements within the project scope area will be located.



## Attachment A – Scope of Work

Intersection Improvements at Wall Triana Highway and Gillespie Road

Project No. R929122555

Madison City

Madison County, Alabama

- Both above ground and below ground utilities will be located based on Alabama 811. Utility location services to be in accordance with Quality C of ASCE 38-02 or better.
- The Survey shall be tied to the Alabama State Plane Coordinate System NAD83 (East Zone) and Elevations will be referenced to NAVD88 Datum, 2011 geode model 12A.

### Traffic Signal Design Plans

- Develop a signal layout sheet for the upgraded signal design at the Wall Triana Highway and Gillespie Road Intersection.
- Signal design to include all the necessary signal items that would be required for a four (4) legged intersection with mast arm poles, video detection, and pedestrian signals.
- Develop traffic control phasing for signal construction as necessary.
- Develop quantities associated with the upgraded signal to be included in the opinion of probable cost estimate.
- This plan assembly will include the following sheets:
  - Title Sheet
  - Index Sheet
  - Standard Drawing Reference Sheet
  - Legend and Abbreviations Sheet
  - Traffic Signal and ITS Legend Sheet
  - Project Notes
  - Temporary Traffic Control Plan Notes Sheet
  - Traffic Signal Plan Notes Sheet
  - Summary of Quantities Sheets
  - Plan and Profile Sheets
  - Utility Sheets
  - Traffic Signal Sheet
  - Erosion and Sediment Control Sheets
  - Temporary Traffic Control Sheets
- Prepare designs and detailed contract plans at a horizontal scale of 1" = 50' and vertical scale of 1" = 5', completely dimensioned for roadway construction.
- Prepare construction cost estimates for review and consideration by Madison City as the project progresses through the design phases.
- Plans will be provided to utility owners within the area to identify any potential conflict with existing facilities.
- Facilitate plan review(s) by Madison City, as necessary for the project. Plan reviews are expected to consist of a 30% review and 90% review.
- Attend meetings as required, including one (1) project scoping meeting, one (1) 30% review and field inspection, and one (1) 90% review meeting and field inspection.



## Attachment A – Scope of Work

Intersection Improvements at Wall Triana Highway and Gillespie Road

Project No. R929122555

Madison City

Madison County, Alabama

- Prepare specifications and contract documents suitable for receipt of bids by the City.

### Letting Assistance and Contract Procurement

- Assist the City with advertising the project for bids and fielding questions from contractors about the plans as needed.
- Assist with and attend the local letting of the subject project by the City.
- Assist with project award and contract procurement.
- Attend the preconstruction meeting.

### Exclusions

This scope of work does not include:

- Traffic Signal pole and foundation design;
- Geotechnical pole foundation evaluation;
- Traffic Signal Timings;
- Environmental Field Studies or Documentation;
- Right-of Way Document Preparation;
- Right-of-Way negotiations;
- Negotiations for impacts to personal property within the clear zone;
- Utility relocation design;
- Construction observation/inspection services;
- NPDES Application or fees;