



Strand Associates, Inc.®  
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March 22, 2023

Ms. E. Michelle Dunson, P.E., CFM, Deputy City Engineer  
City of Madison  
100 Hughes Road  
Madison, AL 35758

Re: Engineering Services  
Huntsville Brownsferry Road Widening

Dear Michelle,

Thank you for contacting us regarding the opportunity to assist your office with this project. This Proposal presents Strand Associates, Inc.®'s (Consultant) anticipated **Scope of Services** and associated **Compensation** for providing engineering services to the City of Madison, Alabama, (City) for the Huntsville Brownsferry Road Widening project.

### **Project Understanding**

The project consists of widening Huntsville Brownsferry Road from two lanes to three lanes from Holladay Boulevard to 240 linear feet east of Carolina Avenue. Total length of proposed widening is 1,300 linear feet. In addition, topographic and boundary survey and geotechnical analysis will be gathered for approximately 2,400 linear feet from Holladay Boulevard to Oakland Church.

### **Scope of Services**

Proposed services can be described as follows.

1. Perform topographic survey in accordance with the Alabama Department of Transportation (ALDOT) survey and mapping specifications within the project limits, approximately 60 feet on each side of the centerline. Horizontal survey control will be based upon NAD83 (2011), US Survey Feet. Vertical control will be based upon NAVD88 (based upon the latest Geoid), US Survey Feet. Computed coordinates will be datum adjusted NAD83 (2011), Alabama State Plane Coordinates. Notify Alabama 811 Utility Protection Service and request physical location for all underground utilities within the project limits.
2. Conduct field and courthouse research of existing right-of-way (R/W) and adjacent property lines within the project limits.
3. Survey to the next pole or structure past every intersection or R/W line when surveying utilities (anticipating overhead electric, telephone, sanitary sewer, gas, water, fiber, and storm sewer).
4. Survey the existing drainage structure approximately 430 feet east of Holladay Boulevard, a minimum distance of 250 feet left and right of the centerline of Huntsville Brownsferry Road, along the creek centerline. Collect a minimum of one ground shot beyond the top of bank at each section.
5. Design the road modifications for a design speed of 55 miles per hour and maintain the existing profile for Huntsville Brownsferry Road.

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Ms. E. Michelle Dunson, P.E., CFM, Deputy City Engineer  
City of Madison  
Page 2  
March 22, 2023

6. Prepare a typical section consisting of three 12-foot-wide lanes and an open ditch drainage. Widening is anticipated to be primarily focused on one side, and full depth replacement of the existing pavement is not anticipated.
7. Gather geotechnical information for the pavement design and culvert extension located approximately 430 feet east of Holladay Boulevard, in accordance with the ALDOT State of Alabama Technical Manual, dated September 7, 2021.
8. Provide pavement design in accordance with the ALDOT Geotechnical Manual, dated September 7, 2021.
9. Design maintenance of traffic in accordance with ALDOT standards to maintain two lanes of traffic during construction.
10. Provide drawings in accordance with the ALDOT Roadway Plans Preparation Manual, December 2008 edition:
  - a. Title sheet
  - b. Index to sheets
  - c. Index to special and standard drawings
  - d. Plans legend sheet
  - e. Plans legend abbreviations sheet
  - f. Primary survey and geometric layout sheet
  - g. Typical sections
  - h. Project notes
  - i. Traffic control notes
  - j. Summary of quantities
  - k. Summary of quantities box sheet
  - l. Plan and profile (30-scale)
  - m. Paving and signing sheet (30-scale)
  - n. Utility plan and profile sheet (30-scale)
  - o. Temporary traffic control sheets
  - p. Cross sections (every 50 feet and at driveways and side streets within the project area).
  - q. Earthwork summary sheet
11. Submit documents for 30, 60, and 90 percent and final review. These reviews will consist of drawings and opinion of probable construction cost (OPCC). A portable document format (PDF) file of the drawing set will be sent to utility companies with utilities within the project area. Any opinions of probable cost prepared by Consultant are supplied for general guidance of City only. Consultant has no control over competitive bidding or market conditions and cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to City.
12. Attend up to two meetings with the City to discuss design review comments.
13. Provide final deliverable consisting of a stamped electronic PDF file of the set of drawings, a stamped engineer's OPCC, CAD design files in dwg format, and a Microsoft Excel document listing pay items and quantities. Technical specifications, including special provisions and front end Contract Documents, shall be provided by City. City acknowledges that documents are not intended or represented to be suitable for use on the project unless completed by Consultant, or for use or reuse by City or others on extensions of the project, on any other project, or for any other use or purpose, without written verification or adaptation by Consultant. Any such use or

Ms. E. Michelle Dunson, P.E., CFM, Deputy City Engineer  
City of Madison  
Page 3  
March 22, 2023

reuse, or any modification of the documents, without written verification, completion, or adaptation by Consultant, as appropriate for the specific purpose intended, will be at City's sole risk and without liability or legal exposure to Consultant.

14. Prepare clarifications to contractor questions during bidding. Construction-related services will be performed if requested under a separate agreement.

### **If-Authorized Services**

If authorized in writing by City or City's Representative, Consultant will provide the following services.

1. Prepare drawings to extend the existing culvert located approximately 430 feet east of Holladay Boulevard, and incorporate five-foot sidewalks on the north and south sides of Huntsville Brownsferry Road from Oakland Church to Holladay Boulevard. Anticipated additional sheets not included in Item 10 above include the following:
  - a. Culvert extension plan and profile
  - b. Culvert detail sheet
  - c. Culvert steel detail sheet
2. Provide drawings in accordance with the criteria identified in the above design services for widening Huntsville Brownsferry Road from two lanes to three lanes from Carolina Avenue to Oakland Church. Total length of proposed widening is 1,100 linear feet. Decision to incorporate this additional project length will be made by CITY prior to receipt of the 30% plan submittal review comments.
3. Provide subsurface utility investigations for up to five vacuum holes with depths not to exceed 7 feet below present grade. Approximate locations to be determined by CITY.

### **Compensation**

City shall compensate Consultant for Services on an hourly rate basis plus expenses an estimated fee not to exceed \$97,300.

City shall compensate Consultant for **If-Authorized Services** on an hourly rate basis plus expenses an estimated fee not to exceed \$16,500.

### **Schedule**

Services will begin upon receipt of an executed agreement, which is anticipated the week of May 1, 2023. Services are scheduled for completion on November 30, 2023.

### **City's Responsibilities**

1. Furnish traffic data for pavement design for Huntsville Brownsferry Road.
2. Furnish design criteria for Huntsville Brownsferry Road.
3. Furnish hydraulic data for existing culvert to be extended.

Ms. E. Michelle Dunson, P.E., CFM, Deputy City Engineer  
City of Madison  
Page 4  
March 22, 2023

4. Furnish computer-aided design and drafting files for adjacent developments along the project limits.
5. Guarantee access to and make all provisions for Consultant to enter upon public and private lands as required for Consultant to perform Services under this Proposal.
6. Examine all reports, sketches, estimates, special provisions, drawings, and other documents presented by Consultant and render, in writing, decisions pertaining thereto within a reasonable time as to not to delay Consultant's performance.
7. Provide the front end documents that require the contractor to name Consultant as an additional insured on contractor's General Liability and Automobile Liability insurance policies and to indemnify Consultant to the same extent that the contractor insures and indemnifies City.

Thank you for the opportunity to provide our services for this project. If you have any comments or questions, please call me at your convenience at 614-835-0460 extension 5018.

Sincerely,

STRAND ASSOCIATES, INC.®



James D. Hise, P.E.