

# AMIRI ENGINEERING CORP.

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July 11, 2025

Mr. Gerald Smith, Facilities Director  
The City of Madison  
100 Hughes Road  
Madison, Alabama 35758

Subject: Proposal to Provide Subsurface Exploration, Geotechnical Report, and  
Retaining Wall Design for Sloped Embankment, Toyota Field  
Madison, Alabama  
AMIRI Proposal No. P254648

Dear Mr. Smith,

Thank you for the opportunity to submit this proposal to provide the following Services:

- Sloped embankment Reconnaissance, Subsurface Exploration, and Geotechnical Report near the toe of the west embankment slope.
- Retaining Wall Design for the remedial measures..

We are looking forward to working with you on this project. If you have any questions regarding the information contained herein or if we may be of further assistance to you, please contact us at your convenience.

Sincerely,

**AMIRI ENGINEERING CORPORATION**



Nasser Amiri, MSCE, P.E.  
Senior Geotechnical Engineer

## **PART I**

### **SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION**

#### **1.1 Subsurface Exploration**

The embankment slope to the west of the west Parking Lot of the Toyota Field contains areas of erosion where the exposed slope has eroded, and the exposed clayey soil contains areas of severe erosion. Before any remediation, we recommend the following:

1. Visually observe the condition of the existing slope to determine if there are visually identifiable surface indication of slope failure. This is to be performed to identify if there are any global (overall) failure of the slope that may require remediation. If no visually identifiable global failure is noted, then perform the following.
2. Perform a total of five (5) soil test borings near the toe of the existing slope. These borings will be extended to 8 feet beneath the existing ground surface or to Auger Refusal depths, whichever is reached first. Soil drilling and sampling procedures will be in accordance with ASTM D-1586.

#### **Laboratory Testing**

- Moisture content tests on selected soil samples.
- If deemed necessary, Atterberg Limits tests or sieve analysis will be conducted on the selected soil samples.
- Pocket Penetrometer Tests, which is an indication of soils unconfined compression strength, will be performed on all cohesive split spoon soil samples.

#### **Report Preparation**

A Geotechnical Report will be issued that includes subsurface data, excavation conditions and construction considerations and recommendations for the support of a Segmental Retaining Wall system.

#### **BUDGET FOR SLOPED EMBANKMENT RECONNAISSANCE, SUBSURFACE EXPLORATION AND REPORT**

Based on the scope of work described above, the costs associated with our services for Drill Rig and Crew Mobilization/Demobilization, Soil Test Borings, laboratory testing, and Geotechnical Report will be \$ 3500.

**PART II**

**BUDGET FOR RETAINING WALL SECTION DESIGN AND PLAN**

Perform Retaining Wall Design for segmental retaining wall sections. The retaining wall sections will be provided as part of the Geotechnical Report. This may include 3 to 5 wall height sections. The costs associated with the retaining wall design will be \$ 2,000.

**PART III**

**BUDGET SUMMARY**

Slope Reconnaissance, Subsurface Exploration, and Geotechnical Report.....	\$ 3500.00
Segmental Retaining Wall Section Preparation.....	\$ 2300.00
<b>TOTAL</b>	<b>\$ 5,800.00</b>