

**Professional Engineering Services for Geotechnical
& Construction Material Testing
Agreement # C-23-0508-02-06
(ARPA-23-340-330)
WORK AUTHORIZATION NO. 1**

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-23-0508-02-06, incorporated herein by reference, for the “[ARPA-23-340-330] Geotechnical & Construction Material Testing Services – Hidalgo County Precinct 3 La Mansion Health Clinic Project” made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the “**Owner**,” and Millennium Engineers Group, Inc., hereinafter called “**Engineer**”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Geotechnical services for and during the construction of the Project, or portions of the project, as approved by the County.

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment “A” – “Scope of Services to be provided by Engineer”** attached hereto and incorporated by reference.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$9,612.60**. This amount is based upon the costs outlined in the **Attachment “B” – “Fee Proposal”** attached hereto and incorporated by reference.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services Agreement No. C-23-0508-02-06** between the **Owner** and the **Engineer**.

PART 4. FUNDING

This Work Authorization No.1 shall be funded through funding source:

Account No. **4-1290-441-12-115-330-6-730**

Requisition Number _____ **(MUST BE INCLUDED AFTER CC APPROVAL)**

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate **upon completion of the scopes of the Work Authorization, within the limits of Agreement No. C-23-0508-02-06 , provided in this Work Authorization; or on (_____ DATE _____).** *If applicable:* Engineer shall conform to the approved “Work/Project Schedule”, attached hereto and incorporated by reference herein as **Attachment “C”**.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties’ responsibilities and obligations provided under the Agreement No. C-23-0508-02-06.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by **Hidalgo County Precinct 3, Commissioner Everardo “Ever” Villarreal**, as to content and detail of this **Work Authorization No. 3.**

HIDALGO COUNTY PRECINCT No. 3

By: _____
Everardo “Ever” Villarreal, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted and approved by the Hidalgo County Commissioners Court and hereby executed and effective as of the date indicated below.

APPROVED BY COMMISSIONERS’ COURT ON FEBRUARY 6, 2024.

Agenda Item No. 94108 Executive Office: _____

ENGINEER:
Millennium Engineers Group, Inc.

COUNTY:
COUNTY OF HIDALGO

Raul Palma, P.E, CEO

Hon. Richard F. Cortez, County Judge

ATTEST:

Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS:

Attachment “A” – *Scope of Services to be provided by Engineer*

Attachment “B” – *Fee Proposal*

Attachment “C” – *Approved Work/Project Schedule (If applicable)*



ATTACHMENT A

PROJECT SPECIFIC SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER

Attachment "A"

Services to be Provided by Laboratory

The services to be provided by the LABORATORY in providing Geotechnical Services for Hidalgo County Precinct No.4 Project, "**Mile 17 Road Drainage Improvements**" and the services are as follows:

A. Preliminary Phase:

- (1) Attend preliminary conferences with the OWNER and, if requested, with the funding agency and other government agencies or interested parties regarding the Project.
- (2) Provide for the necessary geotechnical investigation and testing necessary to develop the design.
- (3) Provide environmental studies as may be necessary to complete a project.
- (4) Provide assistance to the OWNER in providing material requirements and specifications for design, construction and maintenance projects.
- (5) Provide assistance to the OWNER in providing pavement design recommendations for the design, construction and maintenance projects.
- (6) Provide assistance to the OWNER in providing pavement rehabilitation recommendations for the design, and maintenance projects.
- (7) Provide assistance to the OWNER in providing pavement condition studies.

B. Design Phase:

- (1) Attend the OWNER'S and respective Party's meeting as requested for the purpose of explaining geotechnical investigation report recommendations and preliminary testing results and their impact to proposed design activities.
- (2) Perform any additional geotechnical investigations, testing and environmental studies necessary to collect information required in the design of the Project.
- (3) Provide assistance to the OWNER in providing material requirements and specification for design, construction and maintenance projects.
- (4) Provide assistance to the OWNER in providing pavement design recommendations for the design, construction and maintenance projects.
- (5) Provide assistance to the OWNER in providing pavement rehabilitation recommendations for the design, construction and maintenance projects.
- (6) Provide assistance to the OWNER in providing pavement condition studies.
- (7) Furnish the OWNER all necessary reports for preliminary design, design, construction and maintenance projects.

C. Construction/Maintenance Phase:

- (1) Attend the OWNER'S and respective Party's pre-construction and construction meetings as requested for the purpose of explaining geotechnical investigation report recommendation and preliminary testing results and their impact to proposed construction activities and establish coordination and lines of communication for proposed construction materials testing during construction activities.
- (2) Consult and advise with the OWNER during construction.

- (3) Provide construction materials testing for construction and maintenance projects as required by the project plans and specifications and/or specified by the project design engineer.
- (4) Review all material designs as requested by the OWNER and/or project design engineer.
- (5) Furnish the OWNER all necessary reports for construction and maintenance projects.
- (6) Provide construction inspection services as requested by the OWNER on construction and maintenance projects.

D. Miscellaneous/Other:

- (1) Act for OWNER in professional manner, using that degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- (2) Perform all technical services under the general direction of a Licensed Professional Laboratory in the State of Texas and in substantial accordance with the basic requirements of the appropriate Standards of the American Society of Testing and Materials, where applicable, or other standards designated by County.
- (3) Employ testing machines which have been calibrated within a period not exceeding twelve (12) months from the time of use by devised of accuracy traceable to the National Institute of Standards and Technology (NIST) of the United States Department of Commerce, and, upon request, submit to the OWNER or its authorized representative documentation of such calibration.
- (4) Promptly submit formal construction materials testing reports for all tests, observations, and services performed indicating where applicable, compliance with OWNER specifications or other documents. Such reports shall be completed and factual, citing the tests performed, methods employed, values obtained, parts of the structure and location at which the tests were made.
- (5) The plans and specifications prepared under this Agreement shall become the property of the OWNER upon completion of the work and payment in full of all monies due to the Laboratory.
- (6) Retain all pertinent records relating to the services performed for a period of five (5) years following submission of all reports, during which period the records will be made available to the Owner within a reasonable time.

NOTE: Change in and/or additional services to Scope will require prior approval from OWNER prior to undertaking.



ATTACHMENT B

FEE PROPOSAL

January 12, 2024

Jorge Arcaute
Hidalgo County
jorge.arcaute@co.hidalgo.tx.us

Subject: **Geotechnical Engineering Services**
Proposed Mansion Clinic
Mission, Hidalgo County, Texas
MEG Proposal No. 01-24-102G

Dear Mr. Arcuate (CLIENT):

Millennium Engineers Group, Inc. (MEG) is pleased to submit this proposal for the subject project to offer our services for Geotechnical Engineering Services as outlined below. This proposal, our proposed scope of services, and the estimated item quantities are based upon the project information provided to us by the CLIENT and/or authorized representative.

The cost for services on this project is **\$9,612.60**

The Geotechnical Engineering Services will include three (3) 20-foot soil borings for the building footprint and one (1) 10-foot soil borings for the pavement area. The report will include water table measurements, soil classification testing, laboratory testing, soil strength characteristics, Foundation Recommendations and Pavement Recommendations.

The estimate provided is for the proposed Mansion Clinic in Mission, Hidalgo County, Texas. If there is any change in the project requirements provided to us from those mentioned below, please notify us of the changes and the estimate can be revised accordingly.

We appreciate the opportunity of submitting this proposal and look forward to working with you on the planning and design phase of this project. If there are any questions regarding the proposed scope of work please contact us at (956) 702-8500. Upon your authorization we will begin immediately on the services that you have requested.

Sincerely,
MILLENNIUM ENGINEERS GROUP, INC.
TBPE Firm No. F-3913



Raul Palma, P.E.
Chief Engineer

SCOPE OF SERVICES

The Geotechnical Engineering Services will include three (3) 20-foot soil borings for the building footprint and one (1) 10-foot soil borings for the pavement area. The report will include water table measurements, soil classification testing, laboratory testing, soil strength characteristics, Foundation Recommendations and Pavement Recommendations.

Environmental, Construction Materials Engineering and Testing services if requested from the Engineer will be considered additional services.

TASK I – Initial Project Coordination, Utility Coordination and Field Services

- A. Review and discussion of initial plans provided by client.
- B. Review of utility plans provided by client and/or owner and call Texas One Call for utility location markings for client and/or owner.
- C. Review of available geologic mapping of the project location.
- D. Provide drilling services for field testing and obtain soils samples for laboratory testing.
- E. Obtain depth of water table if any is found.

TASK II – Laboratory Testing and Report Preparation

- A. Evaluate and visually classify soil samples.
- B. Evaluate soil samples through a series of laboratory tests to determine engineering properties.
- C. Review and analyze the results of the soil testing.
- D. Determine engineering properties of the soils and prepare foundation and/or pavement recommendations.
- E. Provide an electronic copy and two printed copies of engineering report.

SCHEDULE

MEG is typically able to schedule a drill rig to the project site within 5 working days after receiving written authorization and notice to proceed. The field drilling and testing activities should take 2 days to complete. Field drilling and testing activities are dependent on the availability of the required site plan and project information, weather, utility locate, and accessibility at the project site. Once the field drilling and testing activities are completed, MEG can provide a preliminary assessment of the site conditions encountered. If a draft of the geotechnical report is required prior to the final geotechnical report completion, please notify us accordingly. The final report is typically completed within 3 weeks from the authorization date. This schedule is typical for the scope of work described herein, please notify us if your needs and project requirements are different.

COMPENSATION

MEG will accomplish the services described in Task I through Task II on the basis of a lump sum fee of **\$9,612.60** Services will be billed as follows: **100% prior to the submittal of the report.**

The fee presented in this proposal and outlined in the *Professional Services Unit Rate Schedule* section are based on prompt payment for services. Late fees will be charged if payment is not received in accordance with the terms as outlined in the *Provisions* section of this proposal.

Task	Qty.	Unit Rate	Estimated Cost
Drilled Borings - In Soil 0 - 50 feet (Per Foot)	70.00	32.00	2,240.00
Rig Mobilization and Demobilization (per trip)	1.00	450.00	450.00
Trip Charge for Logger (each mile)	32.00	0.80	25.60
Technician to Log Soil Test Boring (per hour)	12.00	75.00	900.00
Standard Penetration Test (each test)	26.00	12.00	312.00
Field Coordination - Utility Clearance (per hour)	10.00	75.00	750.00
Sub-Total (Geotechnical Drilling & Field Services)			4,677.60
Material Preparation Time (per hour)	5.00	90.00	450.00
Moisture Content (each test)	26.00	13.00	338.00
Soil Engineering Technician (per hour)	5.00	90.00	450.00
Percent Passing No. 200 Sieve (each test)	7.00	58.00	406.00
Atterberg Limits (each test)	11.00	80.00	880.00
Sub-Total (Laboratory Testing)			2,524.00
Principal Engineer (per hour)	5.00	195.00	975.00
Project Engineer (per hour)	4.00	180.00	720.00
Clerical/Administrative (per hour)	2.00	78.00	156.00
Staff Engineer (per hour)	4.00	140.00	560.00
Sub-Total (Engineering Analysis and Reporting)			2,411.00

Total Estimated Cost:

9,612.60



ATTACHMENT C

APPROVED WORK/PROJECT SCHEDULE

ATTACHMENT “C”

TENTATIVE SCHEDULE - Depends on Contractor/County Inspector scheduling