



Purchase Order COUNTY OF HIDALGO

PO# 855078

DATE: 10/18/22

PAGE NO: 1 of 3

PO TYPE:

VENDOR: 449121

REQ: 00460420

PHONE: (956) 585-3773

Fax: (956) 583-7116

EMAIL: Reza@B2ZEng.com

SHIP TO: HEALTH DEPARTMENT

1304 S. 25TH
EDINBURG TX 78539

B2Z ENGINEERING, LLC
900 S. STEWART RD. SUITE 4
MISSION TX 78572

CONTACT: JOSIE GARCES

(956) 383-8858

SITE: BUDGET AND MANAGEMENT

CONTRACT NO: C-22-0213-09-06

SPECIAL INSTRUCTIONS:

VENDOR NOTES

1. Do not add to or alter this Purchase Order. This Order is not renewable.
2. TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
3. This Order is also placed F.O.B. Destination. Vendor must pay all shipping costs.
4. Invoice each Purchase Order singly. Original invoices are required; customer copy may be accepted. But number must appear on all invoices, bills of lading, and packages.
5. Payment will be made only for bona fide and full completed orders, unless otherwise attached.

QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER		
		SAM:DZK2ZFJGB729 APRA PORJECT 21-340-019 AGENDA ITEM 87194 9/6/22 WORK AUTHORIZATION #1 EL PARAISO HEALTH CLINIC Geotechnical Drilling, Testing and Engineering Services		
1.00	EACH	CC Geotechnical Drilling and Miscellaneous Field Services, Geotechnical Laboratory Testing Services and Geotechnical Engineering Services for the Hidalgo County El Paraiso project ENGINEERING SERVICES: 1 - Structural Evaluation of Borings / Calc. Shear Strength Models / Soil Profiles PROJECT ENGINEER 4 HOURS @ \$149.20 TOTAL \$596.80 2 - Shallow Foundation Analysis & Recs (All BC, PVR, WRI, PTI, Modulus) PROJECT ENGINEER 4 HOURS @ \$149.20 TOTAL \$596.80 3 - Pavement Analysis and Recommendations GEOTECHNICAL ENGINEER 2 HOURS @ \$198.93 AND PROJECT ENGINEER 4 HOURS @ \$149.20 TOTAL \$994.66 4 - Construction Recommendations based on Geotechnical Investigation/Analyses GEOTECHNICAL ENGINEER 2 HOURS @ \$198.93 AND PROJECT ENGINEER 2 HOURS @ \$149.20 TOTAL \$696.26 5 - Geotechnical Report (Including Soil Survey/Geog./All Analyses) GEOTECHNICAL ENGINEER 2 HOURS @ \$198.93, PROJECT ENGINEER 10 HOURS @ \$149.20, CADD TECH 2 HOURS @ \$76.26, AND ADMIN/CLERICAL 2 HOURS @ \$72.94 TOTAL \$2,188.26 6 - Meetings/Coordination PROJECT MANAGER 2 HOURS @\$225.45, GEOTECHNICAL ENGINEER 2 HOURS @ \$198.93, AND ADMIN/CLERICAL 2 HOURS @ \$72.94 TOTAL \$994.64 7 - DIRECT EXPENSES GEOTECHNICAL FIELD AND LABORATORY SERVICES TOTAL \$11,662.51	17,729.9300	17,729.93
1.00		CC I. Geotechnical Drilling Services and Miscellaneous Field Services The Engineer will coordinate with the Owner for verification of project vicinity map indicating	.0000	.00

Authorized by:



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QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		<p>general boring site locations. The Engineer will provide drilling/excavation and sampling of subsurface materials as follows in accordance with this Work Authorization and in conformance with ASTM guidelines:</p> <ul style="list-style-type: none"> • Structural Boring - Three (3) Borings will be drilled at approximate locations of the building structures on the project (Borings will be advanced to a depth of approximately 20 feet below the existing top of natural ground) (Boring Designation B-01 through B-03) • Pavement Boring - Four (4) Borings will be drilled at approximate locations of the on-site drives and parking lots on the project (Borings will be advanced to a depth of approximately 6 feet below the existing top of natural ground) (Boring Designation B-PV-01 through B-PV-04) 		
1.00	EACH	<p>CC II. Geotechnical Laboratory Testing Services Geotechnical Laboratory Testing will be performed by the Engineer on the samples recovered during the field study to evaluate their physical and engineering properties. Laboratory testing will be performed in general accordance with ASTM and/or TxDOT Standard Test Procedures. Testing shall include the following test procedures: (1) Atterberg Limits (ASTM D4318 or Tex-104-E, 105-E, 106-E) (2) Gradation (-200) (ASTM D1140 or Tex-111-E) (3) Lab. Determination of Moisture in Soils (ASTM D2216 or Tex-103-E) (4) Particle Size (Sieve) Analysis with Hydrometer (ASTM D422) (5) Sulfate Content of Soil (ASTM C1580 or Tex-145-E)</p>	.0000	.00
1.00		<p>CC III. Geotechnical Engineering Services The Engineer will utilize information gathered from the field and laboratory testing to provide the Owner with Geotechnical Engineering results and analyses for the Project. The findings and conclusions derived from the results and analyses will be presented in an engineering report and provided to the Owner (electronic .pdf medium only). The report</p>	.0000	.00

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will include a boring location plan, boring logs with laboratory classification of recovered soil samples at the boring locations and subsurface water conditions encountered. The report will provide analyses and/or engineering recommendations as follows:

- 1 Structural Evaluation of Borings / Calc. Shear Strength Models / Soil Profiles
- 2 Shallow Foundation Analysis & Recs (All BC, PVR, WRI, PTI, Modulus)
- 3 Pavement Analysis and Recommendations
- 4 Construction Recommendations based on Geotechnical Investigation/Analyses
- 5 Geotechnical Report (Including Soil Survey/Geog./All Analyses)
- 6 Meetings/Coordination

The report will provide general comments and applicable recommendations regarding construction methods, sequences, and potential difficulties that may arise during overall construction as it relates to the soil aspects of this project. This information may serve to guide both geometric modeling and foundation selection and design as well as provide assistance in the preparation of specifications for the project.

TOTAL: 17,729.93

REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233

For Hidalgo County use only

2-1290-441-07-115-215-1-452

17,729.93

Authorized by:

AI-87194
CC REGULAR AGENDA SPECIAL MTG

Purchasing Department 28. G. 4.
Prct. 3

Meeting Date: 09/06/2022

Submitted For: Eduardo Belmarez, PURCHASING DEPT.

Submitted By: Maria Gomez, PURCHASING DEPT.

Department: PURCHASING DEPT.

CAPTION

Requesting acceptance and approval of the final negotiated Professional Engineering Services Agreement with B2Z Engineering in connection El Paraiso Project located in Precinct 3.

BACKGROUND

Project # 22-0213

AI-83496 CC 11/30/21 – Approval of ARPA - 21-340-019 El Paraiso Health Clinic Improvement Project

AI-85105 CC 03/22/22 – Approval of ARPA -22-123-075 El Paraiso Community Resource Center

Fiscal Impact

CALENDAR YEAR: 2022

ACCT. #: 2-1290-441-07-115-215-1-452

FUNDS AVAILABLE Y/N?:y

MATCHING FUNDS Y/N?:n

BUDGETARY IMPACT:

Attachments

1295 & Ack.

Legal approval

C-22-0213-09-06 B2Z Eng.

Form Review

Inbox	Reviewed By	Date
Purchasing / Internal	Dina Trevino	08/31/2022 06:08 PM
Budget & Management	Veronica Ortiz	09/01/2022 01:12 PM
Final Approval	Monica Salinas	09/02/2022 05:55 PM
Form Started By: Maria Gomez		Started On: 08/26/2022 08:45 AM
Final Approval Date: 09/02/2022		

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

GENERAL SCOPE OF WORK

The work to be performed by the **Engineer** under this Work Authorization shall consist of; Geotechnical Drilling and Miscellaneous Field Services, Geotechnical Laboratory Testing Services and Geotechnical Engineering Services for the Hidalgo County El Paraiso project hereinafter denoted as the **Project**.

The **Engineer** shall provide all services required (as noted under this Work Authorization) for usage by the **Owner** in the preparation of plans, specification and estimate, and related documents for the **Project**. The **Engineer** shall maintain a direct line of communication and coordinate with the **Owner** throughout the project.

The **Engineer** shall furnish all equipment, materials, supplies, and incidentals as needed to perform the services required, except as otherwise specified to be provided by the **Owner**.

Specific activities to be performed by the **Engineer** include the following:

I. Geotechnical Drilling Services and Miscellaneous Field Services

The **Engineer** will coordinate with the **Owner** for verification of project vicinity map indicating general boring site locations.

The **Engineer** will provide drilling/excavation and sampling of subsurface materials as follows in accordance with this Work Authorization and in conformance with ASTM guidelines:

- Structural Boring – Three (3) Borings will be drilled at approximate locations of the building structures on the project (Borings will be advanced to a depth of approximately 20 feet below the existing top of natural ground) (Boring Designation B-01 through B-03)
- Pavement Boring – Four (4) Borings will be drilled at approximate locations of the on-site drives and parking lots on the project (Borings will be advanced to a depth of approximately 6 feet below the existing top of natural ground) (Boring Designation B-PV-01 through B-PV-04)

The **Engineer** will stake the boring locations and provide utility clearances prior to performing the field exploration portion of the project. The **Owner** will be responsible to provide any necessary permits or authorization to access areas (right of entry) where borings are to be drilled. All borings will be located in the field by a representative of the **Engineer**. All boring locations will be documented with GPS coordinates. Field survey and tie-down locations of all borings will be the responsibility of the **Owner**.

Engineer: B2Z Engineering, LLC
Client: Hidalgo County

The borings will be advanced to the specified depth(s) and in-situ soil testing will be performed in general accordance with ASTM and/or TxDOT Standard Test Procedures and Geotechnical Manual (ASTM D1586 – Standard Penetration Testing (SPT) and/or Tex-132-E – Texas Cone Penetration (TCP)). In addition, where applicable, thin-walled Shelby tube samples may be collected (ASTM D1587 – Thin Walled Tube Sampling). The soils will be sampled as needed to verify subsurface materials and strata changes. Final drilling depths and elevations will be based on topographic conditions at the time of drilling operations.

All samples will be removed from the sample apparatus during drilling operations. The **Engineer** will conduct various field tests on the recovered samples, visually classify the samples, and record the appropriate data on a field boring log. The samples will be appropriately packaged to minimize loss of natural moisture content and to reduce the possibility of damage during transportation to the soil testing laboratory facility.

Drilling services will include an initial water strike depth and a 24-hour water level reading at each boring location. Following completion of drilling and sampling, all boreholes will be backfilled with soil cuttings from the completed borings. If there is insufficient soil cuttings available, alternate fill will be used to backfill the completed boreholes.

This proposal does not include activities and corresponding costs that may be associated with the following:

- Providing an ATV mounted drill rig, dozer or special equipment to clear areas of vegetation and debris or re-grading the site to gain access to the boring locations;
- Re-grading the site or portions of the site after drilling activities are completed;
- Site safety meetings that may be required;
- Encountering hazardous or contaminated soils or substances during our field activities.

The **Engineer** will notify the **Owner** should these services become necessary to complete field exploration activities, and if approved by the **Owner**, additional negotiated fee and scope will be incorporated through Supplemental Work Authorization.

II. Geotechnical Laboratory Testing Services

Geotechnical Laboratory Testing will be performed by the **Engineer** on the samples recovered during the field study to evaluate their physical and engineering properties. Laboratory testing will be performed in general accordance with ASTM and/or TxDOT Standard Test Procedures. Testing shall include the following test procedures:

- (1) Atterberg Limits (ASTM D4318 or Tex-104-E, 105-E, 106-E)
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- (3) Lab. Determination of Moisture in Soils (ASTM D2216 or Tex-103-E)
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- (5) Sulfate Content of Soil (ASTM C1580 or Tex-145-E)

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III. Geotechnical Engineering Services

The **Engineer** will utilize information gathered from the field and laboratory testing to provide the **Owner** with Geotechnical Engineering results and analyses for the **Project**. The findings and conclusions derived from the results and analyses will be presented in an engineering report and provided to the **Owner** (electronic .pdf medium only). The report will include a boring location plan, boring logs with laboratory classification of recovered soil samples at the boring locations and subsurface water conditions encountered. The report will provide analyses and/or engineering recommendations as follows:

1	Structural Evaluation of Borings / Calc. Shear Strength Models / Soil Profiles
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