

EXHIBIT “F”
HIDALGO COUNTY
Professional Engineering Services
Agreement # C-22-0213-09-06
ARPA-21-340-019/ARPA-22-123-075
WORK AUTHORIZATION NO. 2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-22-0213-09-06, incorporated herein by reference, for the “**El Paraiso Health Clinic Improvement Project & El Paraiso Community Resource**” made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the “**Owner**,” and B2Z ENGINEERING, LLC, hereinafter called “**Engineer**”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Construction Material Testing Services for the Hidalgo County **El Paraiso Health Clinic Improvement Project & El Paraiso Community Resource Center** project hereinafter denoted as the Project.

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 **\$78,753.67**. 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-22-0213-09-06** between the **Owner** and the **Engineer**.

PART 4. FUNDING

This Work Authorization No.2 shall be funded through funding source:
Account No. **3-1290-441-04-115-215-6-452 & 3-1290-441-31-115-325-3-452**
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-22-0213-09-06 , 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-22-0213-09-06.

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. 2**.

HIDALGO COUNTY PRECINCT No. 3.

By: _____
Everardo “Ever” Villarreal, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners’ Court on **10/3/23** as indicated below and effective as of **3rd day of October, 2023**.

EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS’ COURT ON OCTOBER, 3rd, 2023.

Agenda Item No. 92643

Executive Office: _____

ENGINEER:
B2Z ENGINEERING, LLC

COUNTY:
COUNTY OF HIDALGO

Aisha Gonzalez, President

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

ATTACHEMENT "A" SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER/ LABORATORY

PROJECT DESCRIPTION

The services designated herein as "Services provided by the ENGINEER/LABORATORY" shall include the performance of all construction material testing services for the following described facility:

ENTITY: HIDALGO COUNTY

PROJECT/DESCRIPTION: EI PARAISO CRC & EL PARAISO HEALTH CLINIC PROJECT

ENGINEER/ENGINEER/LABORATORY shall mean B2Z Engineering, LLC

COUNTY shall mean the Hidalgo County

CONSTRUCTION PHASE SERVICES

The ENGINEER will provide Construction Material Testing services for and during the construction of the Project, or portions of the Project, as approved by the COUNTY.

CONSTRUCTION MATERIAL TESTING:

The ENGINEER/LABORATORY will provide the COUNTY with construction material testing services for the Project. The services to be provided include sampling and testing of all construction materials as required by the project plans and specifications. All sampling frequencies and test procedures will be performed in general accordance with the Texas Department of Transportation TEX methods (or ASTM methods as required) as outlined in the Guide Schedule for Sampling and Testing (11/07). The construction material testing includes, but is not limited to the following:

- 1) Attend the COUNTY'S and respective Party's pre-construction and construction meetings as requested to establish coordination and lines of communication for proposed construction materials testing during construction activities.
- 2) Consult and advise with the COUNTY during construction.
- 3) Sampling and ENGINEER/LABORATORY testing of soils and base materials proposed for use in the construction of Project (Roads/Bridges/Drainage Structures/Misc.) to determine compliance of these materials with project plans and specifications.
- 4) Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.
- 5) Field sampling and testing of fresh concrete, and ENGINEER/LABORATORY testing of hardened concrete to determine compliance with project plans and specifications.
- 6) Field compaction testing of asphalt to ensure proper compaction during lay down operations.
- 7) Field inspection, sampling and ENGINEER/LABORATORY testing of asphalt materials to determine their material properties and their compliance with project plans and specifications.
- 8) The ENGINEER/LABORATORY will be responsible for concrete batching as well as the asphalt testing at the plants to insure delivery of acceptable material to the job site.
- 9) Any additional ENGINEER/LABORATORY testing as required/requested by the COUNTY and the project plans and specifications.
- 10) Providing accurate and timely reports to the COUNTY and all/other recipients as designated by the COUNTY.
- 11) The ENGINEER/LABORATORY will verify the concrete and asphalt designs to assure it is in accordance with TxDOT specifications to be developed by the contractor.

MISCELLANEOUS/OTHER:

ATTACHEMENT “A”
**SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER/
LABORATORY**

- 1) Act for COUNTY 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 ENGINEER/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 device 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 COUNTY or its authorized representative documentation of such calibration.
- 4) 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 COUNTY within a reasonable time.
- 5) The ENGINEER will coordinate with the Design Engineer of Record to review and check all shop or working drawings furnished by the Contractor.
- 6) The ENGINEER will track Utility Relocations and develop as built drawings to depict the location of the utility and the work as actually constructed. The COUNTY will be furnished five (5) set of prints.
- 7) The ENGINEER will provide Monthly Reports/Presentations to the COUNTY.
- 8) The ENGINEER will provide inspection of all materials and equipment furnished/used by the Contractor as follows:
 - a. Review and record all laboratory, shop and mill tests of materials and equipment for compliance with the construction contract specifications.
 - b. Observe and/or perform Project record testing and/or independent assurance testing as outlined in the construction contract specifications.

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



ATTACHMENT B

FEE PROPOSAL



B2Z Engineering, LLC.
 900 S. Stewart Road
 Suite 4
 Mission, TX 78572
 (956) 585-3773
Hector@B2ZEng.com

CONSTRUCTION MATERIALS TESTING

County of Hidalgo
 El Paraiso Community Resource Center

DATE
 09/13/2023

CLIENT

County of Hidalgo
 ATTN: Ignacio Amezcua MBA, CTCM, CTCD
 Purchasing Director
 2802 S. Business Hwy 281 Edinburg, TX 78539
 Phone: (956)318-2626

DESCRIPTION OF WORK

Construction Material Testing Services

LABOR	QTY	RATE/ HR	TOTAL
PERSONNEL			
Project Manager	7.00	\$ 225.45	\$ 1,578.15
Project Engineer	15.00	\$ 149.20	\$ 2,238.00
Tech Time	150.00	\$ 86.20	\$ 12,930.00
Admin/Clerical	30.00	\$ 72.94	\$ 2,188.20
Vehicle Trip Charge	1817.00	\$ 0.56	\$ 1,017.52
ESTIMATED LABOR TOTAL			\$19,951.87

MATERIALS	QTY	UNIT PRICE/ EA	TOTAL
EARTHWORK			
Atterberg Limits of Soils	2.00	\$ 135.00	\$ 270.00
Sieve Analysis - Flexible Base Material	1.00	\$ 90.00	\$ 90.00
Sieve Analysis -200	1.00	\$ 60.00	\$ 60.00
Moisture-Density Relationship (Proctor)	2.00	\$ 225.00	\$ 450.00
In-Place Density	82.00	\$ 28.00	\$ 2,296.00
HMAC			
Extraction, Sieve Analysis, Asphalt Content	1.00	\$ 250.00	\$ 250.00
In-Place Nuclear Densities Tests	14.00	\$ 28.00	\$ 392.00
Theoretical Max Specific Gravity & Density	1.00	\$ 95.00	\$ 95.00
Asphalt Concrete Coring			
a. Coring Rig (per day)	1.00	\$ 95.00	\$ 95.00
b. Generator (per day)	1.00	\$ 105.00	\$ 105.00
c. Bit Wear - Quartz Aggregate (River Gravel) (in.-in.)	16.00	\$ 8.00	\$ 128.00
d. Core Density (1 core per 5000 sqft)	2.00	\$ 80.00	\$ 160.00
CONCRETE/MASONARY			
Air Content (Pressure Method)	14.00	\$ 25.00	\$ 350.00
Compressive Strength Tests	56.00	\$ 30.00	\$ 1,680.00
Motar/Grout Compressive Strength Tests	14.00	\$ 35.00	\$ 490.00
Reinforcing/Structural Steel Observation	19.00	\$ 225.00	\$ 4,275.00
ESTIMATED MATERIALS TOTAL			\$11,186.00
ESTIMATED TOTAL			\$31,137.87

THANK YOU

For questions concerning this estimate, please contact

Hector Cantu
 (281) 717-4016
Hector@B2ZEng.com
www.B2ZEng.com

AUTHORIZED SIGNATURE

The specific hourly rate within each classification listed under Labor/Staff Classification depends on the experience, training, and qualifications of the personnel. A two (2) hour minimum billing at the applicable rate will be assessed per visit to project site.

Services provided on Saturday, Sunday and all work in excess of "normal" work hours will be invoiced at an overtime rate of 1.5 times the applicable rate for the work performed. The cost of services is based upon the assumption that services will be provided during "normal" working hours. Normal working hours are between 7:00 a.m. and 6:00 p.m., Monday through Friday.

September 13, 2023

Mr. Ignacio Amezcua MBA, CTCM, CTCD
Hidalgo County Purchasing Department
Purchasing Director
2802 S. Business Hwy 281
Edinburg, Texas 78539

Reference: County of Hidalgo – El Paraiso Health Clinic Improvements Project CMT Proposal

Dear Mr. Amezcua:

B2Z Engineering, LLC. appreciates the opportunity to submit the budget estimate to provide materials testing services in response to your Request for Proposal in accordance with Contract C-22-0213-09-06. Based on the information furnished to us, we estimate a budget of \$47,615.80. Any additional services requested and not part of this estimate will be charged in accordance with B2Z's fee schedule. A worksheet with the breakdown of quantities is included with this proposal for your convenience.

We look forward to working with you. If you have any questions, please contact us at your convenience.

Sincerely,
B2Z Engineering, LLC.



Hector Cantu
Corporate Laboratory Manager

Attachments: Cost Estimate



B2Z Engineering, LLC.
 900 S. Stewart Road
 Suite 4
 Mission, TX 78572
 (956) 585-3773
Hector@B2ZEng.com

CLIENT

County of Hidalgo
 ATTN: Ignacio Amezcua MBA, CTCM, CTCD
 Purchasing Director
 2802 S. Business Hwy 281 Edinburg, TX 78539
 Phone: (956)318-2626

CONSTRUCTION MATERIALS TESTING

County of Hidalgo
 El Paraiso Health Clinic Improvements Project

DATE
 09/13/2023

DESCRIPTION OF WORK

Construction Material Testing Services

LABOR	QTY	RATE/ HR	TOTAL
PERSONNEL			
Project Manager	10.00	\$ 225.45	\$ 2,254.50
Project Engineer	20.00	\$ 149.20	\$ 2,984.00
Tech Time	235.00	\$ 86.20	\$ 20,257.00
Admin/Clerical	45.00	\$ 72.94	\$ 3,282.30
Vehicle Trip Charge	3025.00	\$ 0.56	\$ 1,694.00
ESTIMATED LABOR TOTAL			\$30,471.80

MATERIALS	QTY	UNIT PRICE/ EA	TOTAL
EARTHWORK			
Atterberg Limits of Soils	5.00	\$ 135.00	\$ 675.00
Sieve Analysis - Flexible Base Material	2.00	\$ 90.00	\$ 180.00
Sieve Analysis -200	2.00	\$ 60.00	\$ 120.00
Moisture-Density Relationship (Proctor)	3.00	\$ 225.00	\$ 675.00
In-Place Density	124.00	\$ 28.00	\$ 3,472.00
HMAC			
Extraction, Sieve Analysis, Asphalt Content	1.00	\$ 250.00	\$ 250.00
In-Place Nuclear Densities Tests	20.00	\$ 28.00	\$ 560.00
Theoretical Max Specific Gravity & Density	1.00	\$ 95.00	\$ 95.00
Asphalt Concrete Coring			
a. Coring Rig (per day)	1.00	\$ 95.00	\$ 95.00
b. Generator (per day)	1.00	\$ 105.00	\$ 105.00
c. Bit Wear - Quartz Aggregate (River Gravel) (in.-in.)	24.00	\$ 8.00	\$ 192.00
d. Core Density (1 core per 5000 sqft)	3.00	\$ 80.00	\$ 240.00
CONCRETE/MASONARY			
Air Content (Pressure Method)	22.00	\$ 25.00	\$ 550.00
Compressive Strength Tests	88.00	\$ 30.00	\$ 2,640.00
Mortar/Grout Compressive Strength Tests	22.00	\$ 35.00	\$ 770.00
Reinforcing/Structural Steel Observation	29.00	\$ 225.00	\$ 6,525.00
ESTIMATED MATERIALS TOTAL			\$17,144.00
ESTIMATED TOTAL			\$47,615.80

THANK YOU

For questions concerning this estimate, please contact

Hector Cantu
 (281) 717-4016
Hector@B2ZEng.com
www.B2ZEng.com

AUTHORIZED SIGNATURE

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ATTACHMENT C

APPROVED WORK/PROJECT SCHEDULE

The **Engineers'** work schedule will mirror the Contractors work schedule for proposed services.
Please see Contractor's schedule.