

HIDALGO COUNTY
Professional Engineering Services
Agreement # C-26-0013-01-06

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-26-0013-01-06, incorporated herein by reference, for the “2812 CRC Facility in Precinct 4” 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 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 **\$162,952.81**. 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-26-0013-01-06** between the **Owner** and the **Engineer**.

PART 4. FUNDING

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

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-26-0013-01-06, 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-26-0013-01-06.**

PART 7. ACCEPTANCE AND APPROVAL

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

EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS’ COURT ON JUNE 9, 2026.

Agenda Item No. 103619

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

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

PROJECT DESCRIPTION

The services designated herein as “Services provided by the ENGINEER” shall include the performance of all Geotechnical/Construction Material Testing Services for the following described facility:

ENTITY: HIDALGO COUNTY PRECINCT NO. 4

PROJECT/DESCRIPTION: WA#1 – Community Resource Center CMT

ENGINEER shall mean B2Z ENGINEERING, LLC.

COUNTY shall mean HIDALGO COUNTY

CONSTRUCTION PHASE SERVICES

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 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 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 testing of asphalt materials to determine their material properties and their compliance with project plans and specifications.
- 8) The ENGINEER 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 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 will verify the concrete and asphalt designs to assure it is in accordance with TxDOT specifications to be developed by the contractor.

MISCELLANEOUS/OTHER:

- 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 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.

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

- 3) Employ testing machines which have been calibrated within a period not exceeding twelve (12) months from the time of use by devices 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.
- 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



Exhibit D
Hidalgo County Pct. 4
Community Resource Center
Construction Materials Testing Services
Fee Schedule

Service Earthwork:	UNIT RATE		QUANTITY		TOTAL
Moisture-Density Relationship (Proctor)	\$225.00	ea	7	\$	1,575.00
Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	\$135.00	ea	7	\$	945.00
Lime Determination	\$400.00	ea	2	\$	800.00
Sieve Analysis -200	\$60.00	ea	4	\$	240.00
Sieve Analysis - Flexible Base Material	\$90.00	ea	4	\$	360.00
Technician Time Sampling	\$107.79	hr	66	\$	7,114.14
Field Density Test - Utility - Sanitary Sewer	\$28.00	ea	32	\$	896.00
Technician Time - Density Testing - Utility - Sanitary Sewer	\$107.79	hr	32	\$	3,449.28
Field Density Test - Utility - Water	\$28.00	ea	37	\$	1,036.00
Technician Time - Density Testing - Utility - Water	\$107.79	hr	37	\$	3,988.23
Field Density Test - Utility - Storm Sewer	\$28.00	ea	127	\$	3,556.00
Technician Time - Density Testing - Storm Sewer	\$107.79	hr	127	\$	13,689.33
Field Density Test - Utility - Pad	\$28.00	ea	24	\$	672.00
Technician Time - Density Testing - Pad	\$107.79	hr	24	\$	2,586.96
Field Density Test - Building Pad	\$28.00	ea	112	\$	3,136.00
Technician Time - Density Testing - Building Pad	\$107.79	hr	112	\$	12,072.48
Proof Rolling	\$107.79	hr	24	\$	2,586.96
Vehicle Travel Charge (150 Trips @ 60 Miles R/T)	\$0.67	miles	9000	\$	6,030.00
Subtotal				\$	64,733.38
Concrete: Civil					
Concrete Compressive Strength Tests	\$30.00	ea	102	\$	3,060.00
Technician Time - Concrete Testing	\$107.79	hr	104	\$	11,210.16
Air Content of Concrete	\$25.00	ea	26	\$	650.00
Technician Time - Pick-Up of Specimen(s)	\$107.79	hr	52	\$	5,605.08
Vehicle Travel Charge (52 Trips @ 60 Miles R/T)	\$0.67	miles	3120	\$	2,090.40
Subtotal				\$	22,615.64
Reinforcing Steel:					
Reinforcing Steel Observation	\$225.00	hr	48	\$	10,800.00
Vehicle Travel Charge (6 trips @60 Miles R/T)	\$0.67	miles	360	\$	241.20
Subtotal				\$	11,041.20
Asphalt:	UNIT RATE		QUANTITY		TOTAL
Asphaltic Concrete Laydown Observation	\$107.79	hr	16	\$	1,724.64
Extraction, Gradation, Bitumen Content and Laboratory	\$250.00	ea	4	\$	1,000.00
Density of Asphaltic Concrete					
Maximum Theoretical Specific Gravity of Asphalt	\$95.00	ea	4	\$	380.00
Nuclear Densities	\$28.00	ea	24	\$	672.00
Asphaltic Concrete Coring:					
a.)Technician	\$107.79	hr	16	\$	1,724.64
b.)Coring Rig	\$95.00	day	2	\$	190.00
c.)Generator	\$105.00	day	2	\$	210.00
d.)Bit Wear - Quartz Aggregate (River Gravel)	\$8.00	in.-in.	0	\$	-
e.)Core Denstiy (1 Core per 5000 sqft)	\$80.00	ea	7	\$	560.00
Vehicle Travel Charge (6 trips @60 Miles R/T)	\$0.67	miles	360	\$	241.20
Subtotal				\$	6,702.48

Masonry Building/Dumpster Pad					
Masonry Observation	\$107.79	hr	12	\$	1,293.48
Mortar/Grout Compression Strength Testing	\$35.00	ea	36	\$	1,260.00
Technician Time - Pick-Up of Specimen(s)	\$107.79	hr	9	\$	970.11
Vehicle Travel Charge (6 Trips @ 60 R/T)	\$0.67	trip	360	\$	241.20
Subtotal				\$	3,764.79
Structural Steel Observation:					
Structural Steel Observation/Bolts and Weld Certified Welding Inspector	\$225.00	hr	60	\$	13,500.00
Non- Destructive Testing (Radiographic/Ultrasonic)	Cost + 15%	ea	As Requested		
Vehicle Travel Charge (15 Trips @ 60 R/T)	\$0.67	miles	900	\$	603.00
Subtotal				\$	14,103.00
Added Services					
Elevation Certificates	\$850.00	ea	1	\$	850.00
Floor Flatness	\$950.00	ea	1	\$	950.00
Technician Time Observation	\$107.79	hr	8	\$	862.32
Vehicle Travel Charge (4 Trips @ 60 R/T)	\$0.67	trip	240	\$	160.80
Subtotal				\$	2,823.12
Professional Services:					
Project Manager	\$252.75	hr	40	\$	10,110.00
Project Engineer	\$167.26	hr	80	\$	13,380.80
Admin/Clerical	\$85.49	hr	160	\$	13,678.40
Subtotal				\$	37,169.20
GRAND TOTAL				\$	162,952.81



ATTACHMENT C

APPROVED WORK/PROJECT SCHEDULE

EXHIBIT “C”
WORK SCHEDULE

The Work Schedule will be reflected to the CONTRACTOR’S work schedule. The ENGINEER will provide contracted services until project completion.