

EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS' COURT ON September 19, 2023.

Agenda Item No. 92458

Executive Office: _____

ENGINEER:
B2Z Engineering, LLC

COUNTY:
COUNTY OF HIDALGO, TEXAS

Aisha Gonzalez, President

Hon. Richard F. Cortez, County Judge

APPROVED AS TO FORM
Office of the Hidalgo County
Criminal District Attorney,
Toribio "Terry" Palacios

ATTEST:

Robert Viña III, ADA

Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS:

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

Attachment "B" – *Fee Proposal*

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: JAIL WEST SIDE PARKING FACILITY 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 ensure 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.

SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER/ LABORATORY

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/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.

September 12, 2023

Lt Roy Mendez
Hidalgo County Sheriff's Office
701 El Cibolo Rd
Edinburg, TX 78541

Reference: – Hidalgo County Jail West Parking Facility Project CMT Proposal

Dear Lt. Mendez:

B2Z Engineering, LLC appreciates the opportunity to submit the budget estimate to provide materials testing services as part of the On-Call Geotechnical and Construction Materials testing agreement dated December 20, 2022. Based on the plans furnished to us on August 14, 2023, in response to your Request for Proposal, we estimate a cost of \$16,506.93. Any additional services requested and not part of this estimate will be charged in accordance with B2Z's fee schedule. A detailed breakdown has been included for your reference.

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



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

CONSTRUCTION MATERIALS TESTING

Hidalgo County Jail West Parking Facility Project

DATE

09/13/2023

CLIENT

ATTN: Lt. Roy Mendez
 Hidalgo County Sheriff's Office
 701 El Cibolo Rd
 Edinburg, Tx 78541
 (956) 393-6023

DESCRIPTION OF WORK

Construction Material Testing Services

| LABOR | QTY | RATE/ HR | TOTAL |
|------------------------------|---------|-----------|--------------------|
| PERSONNEL | | | |
| Project Engineer (Oversight) | 7.00 | \$ 130.21 | \$ 911.47 |
| Sr. Engineering Tech. | 14.00 | \$ 109.95 | \$ 1,539.30 |
| Tech Time | 81.00 | \$ 83.91 | \$ 6,796.71 |
| Vehicle Charge per trip | 1620.00 | \$ 0.625 | \$ 1,012.50 |
| Reports | 27.00 | \$ 25.00 | \$ 675.00 |
| Admin/Clerical | 29.00 | \$ 66.55 | \$ 1,929.95 |
| ESTIMATED LABOR TOTAL | | | \$12,864.93 |

| MATERIALS | QTY | UNIT PRICE/ EA | TOTAL |
|----------------------------------|-------|----------------|--------------------|
| EARTHWORK | | | |
| Atterberg Limits of Soils | 4.00 | \$ 135.00 | \$ 540.00 |
| Gradation | 1.00 | \$ 90.00 | \$ 90.00 |
| Lime Series Determination | 2.00 | \$ 400.00 | \$ 800.00 |
| Moisture/Density | 3.00 | \$ 225.00 | \$ 675.00 |
| In-Place Density | 24.00 | \$ 28.00 | \$ 672.00 |
| HMAC | | | |
| Roadway -Pavement Thickness | 2.00 | \$ 65.00 | \$ 130.00 |
| Roadway -Rolling Pattern | 3.00 | \$ 45.00 | \$ 135.00 |
| CONCRETE/MASONARY | | | |
| Compressive Strength Tests | 20.00 | \$ 30.00 | \$ 600.00 |
| ESTIMATED MATERIALS TOTAL | | | \$3,642.00 |
| ESTIMATED TOTAL | | | \$16,506.93 |

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.