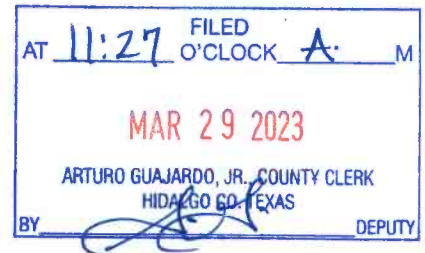


HIDALGO COUNTY
Professional Engineering Services
Contract # C-18-075-02-27



WORK AUTHORIZATION NO. 3

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 7 of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **B2Z Engineering, LLC**, professional engineers of Mission, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Survey Services (surveying, SUE, and Construction Staking) and Design Engineering (PS&E) of the pedestrian tunnel for the Las Milpas Road (from SH336 (10th St) to McColl Rd) project.

The scope of services to be provided by the **Owner** is identified in **EXHIBIT "A" – Scope of Services to be provided by the Owner** attached hereto.

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "B" – Scope of Services to be provided by the Engineer** attached hereto.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$59,926.70**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D" Fee Schedule**.

PART 3. PAYMENT

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with **Article 6** of the Agreement.

PART 4. FUNDING

This Work Authorization No. 2 shall be funded through funding source:

Account No. _____

Requisition Number _____

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 scopes of the work authorization.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by **Hidalgo County Precinct 2**, Commissioner Eduardo "Eddie" Cantu as to content and detail of this **Work Authorization No. 3**.

EXHIBIT “A”
SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER

The following provides an outline of the services to be provided by the **Owner** in the development of the proposed improvements to Las Milpas Road located within Hidalgo County hereinafter denoted as the **Project**.

GENERAL:

The **Owner** will provide to the **Engineer** the following:

- 1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.
- 2) Payment for work performed by the **Engineer** and accepted by the **Owner** in accordance with Article 5 of the Agreement.
- 3) Assistance to the **Engineer**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the **Engineer** cannot easily obtain.
- 4) Provide any available relevant data the **Owner** may have on file concerning the **Project**.
- 5) Provide timely review and decisions in response to the **Engineer's** request for information and/or required submittals and deliverables, in order for the **Engineer** to maintain the agreed upon work schedule prepared in accordance with Exhibit “C” attached to this Work Authorization.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by **Engineer**.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 1 - SURVEYING

The ENGINEER shall provide services under the direct supervision of a Texas Registered Professional Land Surveyor (RPLS) and shall be in accordance with TBPELS Acts and rules with minimum requirements met for a Texas Society of Professional Land Surveyors (TSPLS) category 6, Level II survey and Subsurface Utility Engineering (SUE) Level A survey.

Horizontal and Vertical Control:

- 1) The ENGINEER shall establish two (2) horizontal and vertical control points based on the North American Datum of 1983, 2011 adjustment, epoch 2010.00 (horizontal) and the North American Vertical Datum of 1988 (vertical), geoid 12b. The grid-to-surface adjustment factor the project shall be 1.00004 pas per TxDOT specifications for Hidalgo County, Texas.

Infrastructure and Cross Sections:

- 2) The ENGINEER shall survey 500 feet north and south of the proposed crossing. Cross sections shall be at 50' intervals with all grade breaks, structures, signage, above-ground utilities, and improvements located.

SUE Level A:

- 3) The ENGINEER estimates three facilities/test holes to be located vertically and horizontally by nondestructive techniques. The ENGINEER shall submit a Texas 811 utility locate request. Texas 811 markings shall be surveyed with utility purveyor information recorded. Exposed facilities shall be inventoried by photograph, sketch, RTK GPS procedures, and field measurements to accurately determine the size, vertical locations, and horizontal locations.
- 4) Deliverables to include 2D and 3D mapping in DGN graphics format, SUE Level A data sheets signed and sealed by an RPLS, surveyors report, and documents of record acquired during the course of the survey.

Construction Staking & Vertical Control:

- 5) The ENGINEER shall provide construction staking for the COUNTY to be used during construction. Items to be staked are:
 - Project centerline
 - Edge of Pavement
 - Proposed Driveways
 - Proposed culverts (including flow elevations)
 - Proposed R.O.W. line
- 6) The ENGINEER shall provide the COUNTY with vertical control points to be used during construction. The ENGINEER shall provide the COUNTY with vertical control sheets, as well as physically staking them out in the field for construction.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 2 – DESIGN ENGINEERING

The ENGINEER shall provide final signed and sealed plans to the COUNTY for the project. Tasks provided by the ENGINEER are as follows:

- 1) The ENGINEER shall develop a Tunnel Crossing Layout (Plan & Profile)
- 2) The ENGINEER shall develop Drainage & Miscellaneous Details
- 3) The ENGINEER shall develop quantities, estimates, specifications, and Standards
- 4) The ENGINEER shall provide Utility Coordination with all affected utility companies and with the COUNTY.

EXHIBIT "B"
FEE PROPOSAL

Hidalgo County Precinct 2: Las Milpas Rd Project - Pedestrian Tunnel Surveying & Design

Work Authorization #3										
WA #3 - Surveying & Design		MANHOURS						Total Hours	Subtotal	
		PRINCIPAL	PROJECT MANAGER	PROJECT ENGINEER	EIT	ENGINEER TECH	ADMIN/CLERICAL			
TASKS										
SURVEYING										
1	Horizontal and Vertical Control	1	3	6	4	14	8	36	\$3,728.36	
2	Infrastructure and Cross sections	1	3	6	4	12	8	34	\$3,569.98	
3	SUE Level A	1	3	8	4	10	6	32	\$3,576.56	
4	Construction Staking & Vertical Control	2	12	18	16	26	10	84	\$9,746.42	
								SUB-TOTAL	102	\$20,621.32
DESIGN										
1	Develop Tunnel Crossing Layout (Plan & Profile)	1	8	20	22	42	8	101	\$8,631.34	
2	Drainage & Miscellaneous Details	1	4	18	18	30	8	79	\$8,314.52	
3	Develop Quantities, Estimate, Specifications and Standard Selection	1	4	16	22	16	8	67	\$7,291.64	
4	Utility Coordination	2	16	24	20	10	8	80	\$10,412.78	
5	Meeting, Coordination, Management & Site Visits	2	10	10	6			28	\$4,487.10	
								SUB-TOTAL	355	\$39,137.38
Labor Hours		9	48	100	96	124	48	457		
Hourly Base Rates		\$ 68.00	\$ 60.00	\$ 45.00	\$ 29.00	\$ 24.00	\$ 20.00			
Contract Rate FY2019		\$ 224.36	\$ 197.96	\$ 148.47	\$ 95.68	\$ 79.19	\$ 65.99			
Total Labor Costs		\$ 2,019.24	\$ 9,502.08	\$ 14,847.00	\$ 9,185.28	\$ 9,819.56	\$ 3,167.52		\$59,758.70	

Direct Expenses	Units		
Mileage (\$0.56/mile)	300	\$	168.00
Total Direct Expenses		\$	168.00

WA#3 - Total Cost **\$ 59,926.70**

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

**OFFICE USE ONLY
CERTIFICATION OF FILING**

Certificate Number:
2023-976634

Date Filed:
01/26/2023

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

B2Z Engineering, LLC
MissMission , TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Hidalgo County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

C-18-075-02-27
Hidalgo County Precinct 2: Las Milpas Rd. - Pedestrian Tunnel Surveing & Design Project

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Gonzalez, Aisha	Mission , TX United States	X	

5 Check only if there is NO Interested Party.

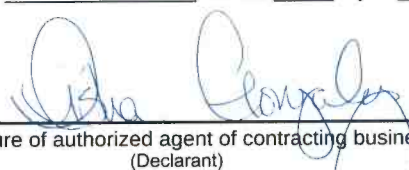
6 UNSWORN DECLARATION

My name is Aisha Gonzalez, and my date of birth is _____.

My address is 900 S. Stewart Rd. Suite 4, Mission, TX, 78572, USA.
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of Texas, on the 26 day of January, 2023.
(month) (year)



Signature of authorized agent of contracting business entity
(Declarant)