

EXHIBIT E
WORK AUTHORIZATION

HIDALGO COUNTY
Professional Engineering Services
Agreement# C-17-290-11-21

AT <u>3:00</u>	FILED	<u>P</u>	M
O'CLOCK			
DEC 01 2017			
ARTURO GUAJARDO, JR. COUNTY CLERK HIDALGO COUNTY, TEXAS			
BY: <u>LAG</u>	DEPUTY		

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "Owner," and, **Alpha Infrastructure Engineering, Inc.**, A Texas Corporation, hereinafter called "Engineer".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the "engineering services" to provide Professional Engineering Services for Midway Road Improvements from South of Business 83 to 18th St.

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 \$78,900.00. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D"**.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Article/Part/Section 3 of the Agreement.

PART 4. FUNDING

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

Account No. 7-1351-431-00-121-239-0721

Requisition Number 361528 (**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 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 No.4, as to content and detail of this Work Authorization No. 1.

**HIDALGO COUNTY
COMMISSIONER PRECINCT No. 1:**

By: [Signature]
Hon. David Fuentes

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 11-21-17 as indicated below and effective as of 21st day of November, 2017

**THE ENGINEER:
ALPHA INFRASTRUCTURE ENGINEERING, PLLC**

**THE OWNER:
HIDALGO COUNTY**

By: [Signature]
Juan M. Gamez, PE/President

By: Ramon Marcia
Ramon Garcia, County Judge

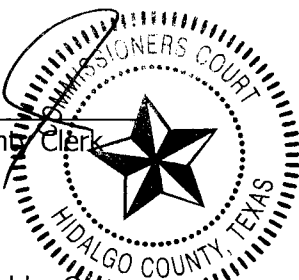
ATTEST:

By: [Signature]
Arturo Guajardo Jr., County Clerk

11/21/17 [Signature]

LIST OF ATTACHMENTS:

- Exhibit A – Services to be Provided by Owner
- Exhibit B – Services to be Provided by Engineer
- Exhibit C – Work Schedule
- Exhibit D – Cost Proposal





Midway Rd Project Location

1 inch = 900 feet

Midway Rd. 18th St. to Bus. 83



EXHIBIT "A"
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 Project (as defined and more particularly identified in Exhibit "A-1" attached to this Agreement).

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 3 of this 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 projects.
- 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 "A-1" attached to this Agreement.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by Engineer.
- 7) Provide the authorization to proceed with services on project by project basis through consulting design and construction Engineer.

EXHIBIT B

Scope of Services to be provided by the Engineer

The following is a listing of the Scope of Services to be provided by the Engineer under this Contract:

GENERAL MANAGEMENT / COORDINATION

1. Meet w/ Owner to establish Project Scope and Design Criteria.
2. Meet w/ Delta Lake Irrigation District to establish Scope of Work on Canal and Drain Ditch.
3. Meet w/ Owner's Staff on all project related items.
4. Perform Quality Control & Quality Assurance (QCQA).

RIGHT-OF-WAY, UTILITIES, AND DESIGN SURVEYING

Right-of-Way & Utilities Survey

1. Survey existing roadway right-of-way and adjoining parcel lines in project coordinate system.
2. Obtain most current existing right-of-way information (plats, deeds, ownership info).
3. Prepare Project Base Map of project limits showing exist ROW and Property lines.
4. Contact "One Call" to request marking of underground utilities.
5. Request existing utility information from local utility companies.
6. Perform surveying for horizontal location of "Flagged" underground utilities & visible overhead lines.

Design Survey

1. Establish project control points at each end of project.
2. Establish Horizontal and Vertical Control BM's @ 1,000-Ft spacing (Est. 6 BM's).
3. Perform topographic survey to 200-Ft beyond limits of project.
4. Take X-Sections @ 100-Ft spacing to 20-Ft beyond ROW (when possible).
5. Take driveway or intersecting road X-Sections to 10-Ft beyond ROW.
6. Pick up horizontal location of all visible overhead or on-ground utilities and markings from "one-call" services.
7. Take X-Sections of Irrigation Canal @ 50-Ft spacing to 200-Ft from Roadway centerline each side.
8. Take X-Sections of Drain Ditch @ 50-Ft spacing to 200-Ft from Roadway centerline each side.
9. Obtain Side Drain data (centerline station, size, length, flow lines, etc.).
10. Obtain culvert's size of structures, type, skew angle, material.
11. Locate any other topographic feature within project area (within 20-ft outside of ROW).
12. Process ASCII files to develop DTM.

PLANS SPECIFICATIONS & ESTIMATE

1. Title Sheet & Index of Sheets
2. Project Layout
3. Horizontal & Vertical Survey Control
4. Existing & Proposed Typical Sections
5. Develop General Notes and Specs
6. Earthwork & Cross-Sections
7. Figure Quantities & Prepare E&Q Sheets
8. Sequence of Construction
9. Traffic Control Plan General Notes
10. Traffic Control Plan
11. Plan & Profile (Roadway)
12. Driveway & Intersection Details
13. Outfall Details
14. Cross Culvert X-Sections & Profiles
15. Irrigation Crossing Structure Plan & Profile
16. Irrigation Structures Details
17. Prepare storm water pollution prevention plan (SW3P) following NPDES general permit requirements
18. Provide interim drawing submittals (3 sets)
19. Provide Final Drawings on 11"x17" Paper
20. Provide Engineer's Construction Cost Estimate

CONSTRUCTION PHASE SERVICES

1. Review submittals
2. Review Construction Materials Testing Reports
3. Perform Construction Site Observations
4. Perform Final Inspection
5. Prepare Construction Record Drawings
6. Close out Project

		2017				
		October	December	January	February	March
Engineering Schedule Summary	Duration					
Survey and Topographic Work	7 days					
Utility Coordination	7 days					
Hydrology and Hydraulics	7 days					
Preliminary Engineering	21 days					
Final Plans Design	28 days					
QA/QC	7 days					
Spec Book	7 days					

Total Days to Perform Project **84**

7840 N FM88
Weslaco, TX
78596
Phone: 956-363-0768



130 W. Magnolia
La Feria, TX
78559
Fax: 1-888-7473965

Email: JUAN@ALPHA-ENG.US

November 7, 2017

Exhibit D
Engineer's Contract Rates
(Midway Rd Improvement Project)

Staff Classification	Hourly Rate
Principal	\$ 240.00
Project Manager	\$ 160.00
Senior Engineer	\$ 140.00
R.P.L.S	\$ 150.00
Senior Engineering Technician	\$ 70.00
CAD Technician	\$ 68.00
Survey Crew	\$ 150.00
Clerical	\$ 40.00

Exhibit D-1

-Estimated Project Fee Schedule

Task and Description	Principal	Project Manager	Senior Engineer	R.P.L.S	Senior Engineering Technician	CAD Technician	Survey Crew	Clerical	Total
Hourly Rate	\$ 240.00	\$ 160.00	\$ 140.00	\$ 150.00	\$ 70.00	\$ 68.00	\$ 150.00	\$ 40.00	
A. Survey				14	10	20	45	4	93
sub total	\$ -	\$ -	\$ -	\$ 2,100.00	\$ 700.00	\$ 1,360.00	\$ 6,750.00	\$ 160.00	\$ 11,070.00
B. General Management / Coordi					40	40		6	128
	\$ 2,880.00	\$ 3,200.00	\$ 1,400.00	\$ -	\$ 2,800.00	\$ 2,720.00	\$ -	\$ 240.00	\$ 13,240.00
C. PS&E					120	120		3	368
	\$ 4,800.00	\$ 7,200.00	\$ 8,400.00	\$ -	\$ 8,400.00	\$ 8,160.00	\$ -	\$ 120.00	\$ 37,080.00
D. Construction Services				7	40	40	6	6	159
	\$ 2,400.00	\$ 3,200.00	\$ 4,200.00	\$ 1,050.00	\$ 2,800.00	\$ 2,720.00	\$ 900.00	\$ 240.00	\$ 17,510.00

Total Professional Man Hour Estimate	42	85	100	21	210	220	51	19	748
Total Estimated Professional Services Fee	\$ 10,080.00	\$ 13,600.00	\$ 14,000.00	\$ 3,150.00	\$ 14,700.00	\$ 14,960.00	\$ 7,650.00	\$ 760.00	\$ 78,900.00

APPROVED

RECEIVED
NOV 30 2017
By: *AS*

11-62519
CC - REGULAR

Purchasing Department 15. C. 1.
Prct. 1

Yvette

Meeting Date: 11/21/2017
Submitted For: Marty Salazar, PURCHASING DEPT.
Submitted By: Yvette Salinas, PURCHASING DEPT.
Department: PURCHASING DEPT.

Information

CAPTION

A. Requesting approval of final negotiated agreement Contract #C-17-290-11-21 with Alpha Infrastructure Engineering, PLLC in connection with the provision of Professional Engineering Services for Precinct No. 1 Midway Road Project [as approved to negotiate by HCCC 10-17-17];

B. Approval of Work Authorization No. 1 with Alpha Infrastructure Engineering, PLLC in the amount of 78,900.00 for Midway Road Project.

BACKGROUND

Fiscal Impact

CALENDAR YEAR: 2017

ACCT. #: 7-1351-431-00-121-239-0-721

FUNDS AVAILABLE Y/N?: Y/pend MATCHING FUNDS Y/N?:

BUDGETARY IMPACT:

Reference: Req #361528

Attachments

draft
WA1
legal ok
1295

Form Review

Inbox	Reviewed By	Date
Purchasing - Internal	Marty Salazar	11/16/2017 04:17 PM
Budget & Management	Veronica Ortiz	11/16/2017 04:25 PM
Final Approval	Monica Salinas	11/17/2017 02:51 PM
Form Started By: Yvette Salinas		Started On: 11/09/2017 02:22 PM
Final Approval Date: 11/17/2017		