

HIDALGO COUNTY
Professional Engineering Services
Contract # C-16-165-07-06
Work Authorization Form

WORK AUTHORIZATION NO. 2

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, **TEDSI INFRASTRUCTURE GROUP, INC.**, 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 engineering services required for the preparation of plans, specifications and estimates (PS&E) for: Mile 9 Road Improvements from Mile 1 East to Mile 3 East in Hidalgo County Pct. 1.

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 \$ **63,849.00**. 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 **Articles/Part/Section 5, 6 & 7** of the Agreement.

PART 4. FUNDING

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

Account No. Various Account #s (refer to Budget Impact)
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 project completion as indicated in the "Exhibit C Preliminary Work Schedule".

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.1**, as to the content and detail of this **Work Authorization No. 2**.

HIDALGO COUNTY PRECINCT No. 1:

By: _____
A.C. Cuellar, Jr., Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on _____ as indicated below and effective as of _____ day of _____, 201 6.

THE ENGINEER:
TESDI Infrastructure Group, Inc.

THE OWNER:
HIDALGO COUNTY

By: _____
Jessie Salinas, Chief Executive Officer

By: _____
Ramon Garcia, County Judge

ATTEST:

By: _____
Arturo Guajardo Jr., County Clerk

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 **Work Authorizations**.

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

- 1) Prepare and execute a Purchase Order with Hidalgo County Purchasing Department
- 2) Authorization to the Engineer to begin work.
- 3) Payment for work performed by the engineer.
- 4) Assistance to the Engineer, as necessary, to obtain required data and information from other local, regional, and state agencies that the Engineer cannot easily obtain.
- 5) Secure required Environmental permits from regulatory agencies
- 6) Acquire additional Right of Way identified by the Engineer
- 7) Provide any available relevant data that may on file concerning the Project.
- 8) Provide timely review and decisions in response to the Engineers request for information and/or submittals and deliverables.
- 9) Attend and participate in progress meetings as required and as coordinated and conducted by the Engineer.
- 10) Advertise and award, as assisted and recommended by the Engineer, construction contracts for the PS&E developed by the Engineer.
- 11) Attend pre-bid and pre-construction conferences coordinated and conducted by the Engineer.
- 12) Review and approve monthly and final estimates, developed by the Engineer, for payment to the Contractor. Compensate and pay the Contractor for work performed as identified in the approved monthly and final estimates.
- 13) Provide assistance to Engineer where necessary and possible with Owner information/resources to ensure project is completed within timely/efficient basis.
- 14) Provide Engineer with Geotechnical Data for pavement design and thickness.

EXHIBIT "B"

Generalized Services to be Provided by the Engineer

MILE 9 RD. HIDALGO COUNTY PCT. 1

The **Engineer** shall provide the following engineering services required for the preparation of the plans, specifications and estimates (PS&E) for **Mile 9 Road Improvements from Mile 1 East to Mile 3 East in Hidalgo County Precinct Number One**. The **Engineer** shall maintain a direct line of communication and coordinate very closely with the Hidalgo County Pct 1.

A. BASIC ENGINEERING DESIGN SERVICES

ROADWAY DESIGN CONTROLS

1. Develop Typical Sections – No pavement design will be completed as part of the scope of work. Pavement section will be based on directive from Hidalgo County Pct No. 1.
2. Prepare plan and profile sheets as required for reconstruction.
3. Develop plan and profiles for inclusion in sheets.
4. Determine roadway quantities and prepare quantity summary sheet.

MISCELLANEOUS (ROADWAY)

1. Develop Miscellaneous Roadway Details.
2. Prepare Title Sheet and Index sheets.
3. Calculate project quantities and prepare quantity summary sheet.
4. Prepare general notes.
5. Prepare list of Standard Drawings to be included in the plans.
6. Upon completion of the review of the final plans by Hidalgo County Pct. No. 1, the ENGINEER shall assemble and furnish signed original (11" x 17") drawings which shall include all applicable standards. The Engineer may sign/seal plans manually or include an electronic signature/seal.
7. Coordinate with Pct 1 and other agencies as necessary.

SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION

1. Signing and Pavement Markings are to be shown on roadway P&P sheets as necessary

CONSTRUCTION SUPPORT

1. Prepare Bid Documents
2. Attend and Coordinate Pre-bid Conference
3. Evaluate Bids
4. Make Award Recommendation
5. Assist County with preparation of Contract Documents.
6. Attend Pre-construction Conference upon request by County.
7. Respond to Request for Information (RFI) from Contractor
8. Review Pay Requests
9. Preparation of Change Orders
10. Final Site Visit
11. Record Drawings

B. FIELD DESIGN SURVEY SERVICES

FIELD SURVEYING

2. Topographic survey of entire project length including:
 - a) Topography of existing roadway and ditch within existing apparent ROW.
 - b) Topography shall include any existing drainage crossings.
 - c) Include flow lines, size and direction of drainage channels/structures

- d) Include utilities
- e) Perform one-call (Dig Tess) and identify and locate utilities (within limits of R.O.W.) as flagged/marked by utility companies
- f) Include inverts on sanitary sewer, measure downs to top of keys on water and gas mains
- g) Establish x, y, and z coordinates of power poles, manholes and valves of various utilities, flow lines of existing sanitary sewer and storm sewer lines, and subsequent utility ties of facilities exposed by others. Surveyor to survey nearest manhole/valve invert outside project limits.
- h) Establish 2 benchmarks for project control.

C. ADDITIONAL SERVICES NOT INCLUDED AS PART OF THIS PROJECT

1. Drainage Design – (As part of the FEMA application reconstruction driveways were not included in the project and therefore drainage improvements will not be part of this contract). Drainage improvements are limited to cleaning and grading of the existing roadside ditches.
2. Utility Design/Coordination and/or location of utilities by survey or other measures (Utilities will not be located for this project because construction activities are exempt from locating requirements because excavation for the project will not exceed 16in as stated in TAC Title 16 Part 1 Rule§18.1 and Utilities Code Title 5, Chapter 251).
3. SW3P (Storm Water Pollution Prevention Plan) – To be provided by the Contractor
4. TCP (Traffic Control Plan) – To be provided by the Contractor
5. ROW Survey and Acquisition Services
6. Traffic Studies
7. No separate sign, pavement marking, sign details or summaries will be prepared.
8. Signalization
9. Design of irrigation ditches and lines
10. Construction staking
11. Right of Way recovery and or documents.
12. Development of specifications.
13. Submittal of documents to other agencies: Pct 1 to submit required documents (prepared by TEDSI)
14. Design of new drainage outfalls (design to tie into existing outfalls)
15. All Environmental Services and Site Assessment and necessary permits in regards to:
 - a) Impacts
 - b) Wetlands
 - c) Endangered species
 - d) Historic/archaeological/cultural
 - e) Assist in developing a public involvement plan.
16. Coordination with regulatory agencies
17. Advertisement and award of construction contract
18. Geotechnical Services:
 - a) Pavement section design or testing prior to PS&E development
 - b) Material testing during construction
19. Perform evaluations and other tasks related to permitting issues for particular locations or elements of the project.
20. Construction Management:
 - a) Construction Inspection
 - b) Construction Staking
 - c) R.O.W. Staking

Additional Services to be negotiated by Supplemental Agreement.

EXHIBIT "C"
Work Schedule

MILE 9 RD. - Hidalgo County Pct. No. 1

Task	Months from Notice to Proceed				
	1	2	3	4	5
FIELD SURVEY					
ROADWAY DESIGN CONTROLS					
MISCELLANEOUS (ROADWAY)					
SIGNING, PAVEMENT AND SIGNALIZATION					
CONSTRUCTION SUPPORT					

EXHIBIT D
MILE 9 ROADWAY RECONSTRUCTION
HIDALGO COUNTY PCT. 1

TASK DESCRIPTION	Sr. Project Manager	Project Manager	Senior Engineer	Project Engineer	Engineer	Sr. Design Engineer	Engineering Designer	CADD Operator	Secretary	Total Labor Hrs.	Fee
ROADWAY DESIGN CONTROLS											
1. Develop Typical Sections	0.8	1.6	0.8	3.2	0.8	3.2	6.4	6.4	0	23	\$ 3,079
2. Prepare plan and profile sheets as required for reconstruction	0.8	3.2	0	5.6	1.6	12	17.6	17.6	3.2	82	\$ 7,590
3. Develop plan and profiles for inclusion in sheets	1.6	2.4	0.8	4	0.8	4.8	5.6	4.8	0.8	26	\$ 3,551
4. Determine roadway quantities and prepare quantity summary sheet.	1.6	3.2	0.8	4.8	0.8	4.8	8	7.2	1.6	33	\$ 4,420
MISCELLANEOUS (ROADWAY)											
1. Develop Miscellaneous Roadway Details.	0.8	1.6	0.8	3.2	0.8	3.2	4.8	4	0.8	20	\$ 2,689
2. Prepare Title Sheet and Index sheets.	0.8	0.8	0	1.6	0.8	1.6	2.4	2.4	0.8	11	\$ 1,488
3. Calculate project quantities and prepare quantity summary sheet.	0.8	2.4	0.8	3.2	0.8	4	5.6	4.8	0.8	23	\$ 3,131
4. Prepare general notes.	0.8	1.6	0.8	3.2	0.8	3.2	4.8	4.8	0.8	21	\$ 2,775
5. Prepare list of Standard Drawings to be included in the plans.	0.8	1.6	0.8	2.4	0.8	2.4	3.2	3.2	0.8	16	\$ 2,190
7. Upon completion of the review of the final plans by Hidalgo County Pct. No. 1, the ENGINEER shall assemble and furnish signed original (11" x 17")	0.8	0.8	0	0.8	0	0.8	1.6	0.8	0	6	\$ 849
8. Coordinate with Pct 1 and other agencies as necessary.	0	0.8	0	0.8	0	0.8	0.8	0.8	0	4	\$ 565
SIGNING, PAVEMENT AND SIGNALIZATION											
1. Signing, Pavement & Signalization	0.8	3.2	0.8	4.8	0.8	5.6	8.8	8	1.6	34	\$ 4,512
CONSTRUCTION SUPPORT											
1. Prepare Bid Documents	0.8	0.8	0	0.8	0	0.8	1.6	1.6	0.8	7	\$ 988
2. Attend and Coordinate Pre-bid Conference	0	0.8	0	0.8	0	0.8	0.8	0.8	0	4	\$ 565
3. Evaluate Bids	0.8	0.8	0	0.8	0	0.8	1.6	1.6	0.8	7	\$ 968
4. Make Award Recommendation	0	0.8	0	0.8	0	0.8	0.8	0.8	0	4	\$ 565
5. Assist County with preparation of Contract Documents	0.8	0.8	0	1.6	0	1.6	2.4	1.6	0.8	10	\$ 1,308
6. Attend Pre-construction Conference upon request by County.	0.8	0.8	0	0.8	0	0.8	1.6	0.8	0	6	\$ 849
7. Respond to Request for Information (RFI) from Contractor	0.8	1.6	0.8	2.4	0.8	2.4	4	3.2	0.8	17	\$ 2,282
8. Review Pay Requests	0.8	1.6	0.8	2.4	0.8	3.2	4.8	4	0.8	19	\$ 2,566
9. Preparation of Change Orders	0	0	0	0.8	0	0.8	0.8	0.8	0	3	\$ 406
10. Final Site Visit	0	0.8	0	0.8	0	0.8	0.8	0.8	0	4	\$ 565
11. Record Drawings	0	0	0.8	0	0	3.2	3.2	0	0	7	\$ 928
SPECIAL SERVICES											
FIELD SURVEYING											\$ 15,000
HOURS TOTAL											
	15	32	9	50	10	82	92	61	15	366	
LABOR RATE PER HOUR	\$ 240.00	\$ 198.00	\$ 172.00	\$ 153.00	\$ 117.00	\$ 132.00	\$ 115.00	\$ 108.00	\$ 86.00		
TOTAL DIRECT LABOR COSTS	\$ 3,648	\$ 6,336	\$ 1,514	\$ 7,589	\$ 1,217	\$ 8,237	\$ 10,580	\$ 8,726	\$ 1,003	\$ 48,850	
TOTAL DIRECT LABOR COST											\$ 63,849