

HIDALGO COUNTY
Professional Engineering Services
Contract # C-16-149-04-12
Work Authorization Form

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, **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 the plans, specifications and estimates (PS&E) for Colonia Noreste Paving and Drainage Improvements.

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 \$ **40,815.00**. 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**___ of the Agreement.

PART 4. FUNDING

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

Account No. 6-1347-431-00-121-211-0-721

Requisition Number 296351 (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 #1**, _____ as to content and detail of this **Work Authorization No.1**.

HIDALGO COUNTY PRECINCT #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 _____, 2016.

THE ENGINEER:
TEDSI Infrastructure Group, Inc.

THE OWNER:
HIDALGO COUNTY

By: Jesus Salinas, CEO/President

By: Ramon Garcia, County Judge

ATTEST:

By: Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS

- EXHIBIT "A" - Service to be Provided by the Owner
- EXHIBIT "B" - Services to be Provided by the Engineer
- EXHIBIT "C" - Work Schedule
- EXHIBIT "D" - Cost Proposal

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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.

The **OWNER** will provide to the **ENGINEER** the following:

- (1) Authorization to the **ENGINEER** to begin work in accordance with Section 3 of this Agreement.
- (2) Payment for work performed by the **ENGINEER** and accepted by the **OWNER** in accordance with Section 6 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 that 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" of this Agreement.
- (6) Attend and participate in progress meetings as required and as coordinated and conducted by the **ENGINEER**.
- (7) Assist the **ENGINEER** in the preparation of the project mailing list; provide representation, a site and stenographer for all public meetings; additionally:

Public Meetings

- (a) Approve agenda and all exhibits prior to public meeting.
 - (b) Approve date and location of the meeting.
 - (c) Review/approve Public Meeting Report.
- (8) Attend the Preliminary Concept Conference coordinated and conducted by the **ENGINEER** and more particularly identified in Attachment "B" of the

Agreement.

- (9) Assist the ENGINEER as required in the coordination with the USACE and the Federal Emergency Management Agency (FEMA) and any other coordinating agency or entity.
- (10) Review and approve the Project design criteria.
- (11) Review and approve change orders as required and prepared by the ENGINEER.

EXHIBIT "B"

Generalized Services to be Provided by the Engineer

NORESTE SUBDIVISION 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 **Noreste Subdivision**. The **Engineer** shall maintain a direct line of communication and coordinate very closely with the Hidalgo County Pct 4.

A. BASIC ENGINEERING DESIGN SERVICES

UTILITIES

1. Coordinate with utility companies to determine areas of conflicts.

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. No plan and profile sheets will be prepared for adjacent roadways (P&P sheets only for Perez St., Dario St., Alamo St., Bustamante St. and Cronicas St.
4. Determine roadway quantities, including cut and fill quantities, and prepare quantity summary sheet.

DRAINAGE

1. Identify the drainage watersheds for this project, by means of site visits, as built-plans, USGS data, Drainage Studies and Survey information.
2. Calculate the existing and proposed discharge values, analyze the existing outfall channels & storm sewer systems all for a 2 yr design frequency.
3. Select all drainage standards and develop all miscellaneous drainage details.

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 driveway tables
6. Prepare list of Standard Drawings to be included in the plans.
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") drawings which shall include all applicable standards. The Engineer may sign/seal plans manually or include an electronic signature/seal.
8. 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

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. Topographics 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. Utility Design
2. SW3P (Storm Water Pollution Prevention Plan) – To be provided by the Contractor
3. TCP (Traffic Control Plan) – To be provided by the Contractor
4. ROW Survey and Acquisition Services
5. Traffic Studies
6. No separate sign, pavement marking, sign details or summaries will be prepared.
7. Signalization
8. Design of irrigation ditches and lines
9. Construction staking
10. Right of Way recovery and or documents.
11. Development of specifications.
12. Submittal of documents to other agencies: Pct 4 to submit required documents (prepared by TEDSI)
13. Design of new drainage outfalls (design to tie into existing outfalls)
14. 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.
15. Coordination with regulatory agencies
16. Advertisement and award of construction contract
17. Geotechnical Services:
 - a) Pavement section design or testing prior to PS&E development
 - b) Material testing during construction
18. Perform evaluations and other tasks related to permitting issues for particular locations or elements of the project.
19. 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

Noreste Subdivision PS&E - Hidalgo County Pct. No. 1

Task	Months from Notice to Proceed				
	1	2	3	4	5
Field Survey	■				
Engineering Design		■			
Construction Support			■	■	■

EXHIBIT "D"
Cost Proposal

Noreste Subdivision PS&E - Hidalgo County Pct. No. 1			
<u>Construction Cost</u>		=	\$326,518.12
<u>Engineering Services</u>			
Basic Engineering Design Services Fee at	10%	=	\$32,652.00
Field Design Survey Services Fee at	2.5%	=	\$8,163.00
Total Engineering Services			\$40,815.00