

HIDALGO COUNTY
Professional Engineering Services
Contract #C-08-389-10-28

CORRECTED
WORK AUTHORIZATION NO. I

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Service Contract made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, "**DOS LOGISTICS, INC**", professional engineer of Weslaco, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide engineering services as it pertains to the following:

INVENTORY OF EXISTING DRAINAGE STRUCTURES AND ENGINEERING ASSESSMENT OF APPROXIMATELY 80.25 MILES OF DRAINAGE DITCH LOCATED IN HIDALGO COUNTY PCT #1

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "A"** – **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 **\$ 197,221.25**. This amount is based upon the costs outlined in the **Estimated Cost Proposal** attached hereto as **EXHIBIT "B"**.

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.I shall be funded through funding source:

Account No. **8-1201-431-00-121-005-0-733**

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 completion of scope of work**.

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, Commissioner Sylvia S. Handy as to content and detail of this Work Authorization No. 1.

**HIDALGO COUNTY
COMMISSIONER PRECINCT No. 1**

BY: _____
Sylvia Handy, County 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 _____, 2009.

THE ENGINEER:
DOS LOGISTICS, INC.

THE OWNER:
HIDALGO COUNTY

BY: _____
Eric C. Ybarra

BY: _____
Juan D. Salinas, III, County Judge

ATTEST:

by: Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS

- ATTACHMENT "A" - Service to be Provided by the Engineer
- ATTACHMENT "B" - Payment/ Fee Schedule
- ATTACHMENT "C" - Insurance Requirements provided by Engineer
- ATTACHMENT "D" - Work Authorization Form

Exhibit "A"

Scope of Work

INVENTORY OF EXISTING DRAINAGE STRUCTURES AND ENGINEERING ASSESSMENT OF APPROXIMATELY 80.25 MILES OF DRAINAGE DITCH LOCATED IN HIDALGO COUNTY PCT #1

Project Startup and Coordination

Coordinate with Irrigation District No. 9 to research and acquire any and all existing right-of-way information pertaining to irrigation ditches and structures available.

Coordinate and meet with Hidalgo County Precinct #1 and Drainage District No. 1 to provide project updates.

Inventory of Existing Drainage Structures

Identify locations, sizes and types of all drainage structures under crossings within the project limits.

Perform preliminary inspection of structures to determine existing conditions. A minimum of three digital photos will be taken of each structure (one photo showing roadway above structure, one photo showing inlet, and one photo showing outlet).

The consultant will note any major construction failures of structures.

Drainage Ditch Engineering Assessment

Search for, locate and identify any structures that are plugged.

Search for, locate and identify any major scouring (above 3 feet).

The consultant will report drainage ditch conditions. These conditions will be classified as: clear and maintained, light brush, medium brush, and heavy brush.

Identify Improvements adjacent to drainage ditches. This includes taking digital photos of buildings, houses, barns, roadways etc., and prepare location map of such improvements.

Establish approximate GPS positions of the beginning and ending points of drainage ditches, all major bends of drainage ditches and all drainage structures.

Digital photos will be taken approximately every 0.25 of a mile.

Plan of Action

Develop map of historically known flood prone areas.

Based on existing drainage ditch and drainage structure conditions, improvements adjacent to drainage ditches and areas that are historically known flood prone areas, the consultant will prioritize and develop a comprehensive plan of action.

Doc Logistics, Inc.
 Client: Hidalgo County Precinct No. 1
 Project Name: Drainage Ditch Assessment within Hidalgo County, Texas Precinct
 (Work Authorization No. 1)

FINAL
 FEE BUDGET ESTIMATE
 STRUCTURE INVENTORY AND DITCH ASSESSMENT
 & DEVELOPMENT OF PLAN OF ACTION
 WORK AUTHORIZATION NO. 1

TASK	DESCRIPTION OF WORK/TASK	BASIS OF MAN-HOUR ESTIMATE QUANTITY UNIT	PRINCIPAL (VII) \$28,22	PROJ MGR (VII) \$200.11	SENIOR ENGR (IV) \$181.92	PROJ ENGR (III) (IV) \$158.45	ENGINEER (I) (II) \$127.34	SR ENGR (III) \$134.87	ENVRON SCIENTIST \$120.07	ENGR (I) (II) \$90.86	CADD OPER (I) (II) \$78.31	SECTY \$85.49	RPLS \$133.71	PROJECT SUPERVISOR \$103.45	SURVEY TECHNICIAN \$64.86	TOTAL MHS PER TASK	TOTAL FEE PER TASK	
																		% OF TOTAL HOURS PER CLASSIFICATION
	PROJECT START-UP AND COORDINATION																	
	COORDINATION WITH PRECINCT # 1 UTILITIES		8				24						24				80	\$11,348.48
	COORDINATION WITH UTILITIES AND IRRIGATION DISTRICTS		8			8	16						64				88	\$12,580.36
	SUBTOTAL		16			32	40	0	0	24	0	0	64			0	176	\$24,480.24
	INVENTORY OF EXISTING DRAINAGE STRUCTURES																	
	FIELD WORK & ENGINEERING ASSESSMENT OF STRUCTURES					2	2											
	SUBTOTAL		0			2	4	48	60	0	0	132	0				304	\$28,389.84
	DRAINAGE DITCH ASSESSMENT																	
	FIELD WORK					2	4		60	0	132	0					310	\$32,955.93
	OFFICE WORK & ENGINEERING ASSESSMENT OF DITCHES					30	64		60	0	160	0					698	\$69,745.07
	SUBTOTAL		0			32	68	60	60	0	160	0	60				1008	\$102,701.00
	DEVELOP PLAN OF ACTION																	
	DEVELOPMENT OF EXHIBITS					18	24		48									
	REVIEW AND COMPLETE DATA					32	68		16									
	DEVELOP FINAL REPORT					16	24		24									
	SUBTOTAL		4			64	108	56	64	0	160	0	40				372	\$43,408.24
	TOTAL HOURS		24			150	288	176	180	0	372	40	194				1800	\$193,704.76
	TOTAL COST		\$5,428.34			\$23,447.50	\$32,600.08	\$23,737.56	\$40.00	\$3,838.46	\$28,130.95	\$2,619.54	\$35,939.74	\$28,345.30	\$17,796.30			\$4,318.50
	TOTAL PROJECT COST																	\$197,221.25
	% OF TOTAL HOURS PER CLASSIFICATION		1.33%			8.33%	14.22%	9.78%	0.00%	2.22%	20.67%	2.22%	10.78%	15.22%	15.22%		100.00%	

NO	UNIT	QUANTITY	UNIT PRICE	AMOUNT
	DIRECT EXPENSES			
	PAPER PLOTS	10	1.50	\$15.00
	PRINTING - 11 X 17 PAPER PLOTS	40	6.00	\$240.00
	PRINTING - 8 1/2 X 11 PAPER PLOTS	40	10.00	\$400.00
	PRINTING - 5 1/2 X 8 1/2 PAPER PLOTS	50	10.00	\$500.00
	REPRODUCTION - 8 1/2 X 11 PAPER COPIES	545	0.12	\$65.40
	REPRODUCTION - 11 X 17 PAPER COPIES	350	0.15	\$52.50
	OVERNIGHT CARRIER COST	0	30.00	\$0.00
	AUTO EXPENSE (Mileage)	50	0.48	\$24.00
	TOTAL DIRECT EXPENSES			\$4318.50