

EXHIBIT “F”
HIDALGO COUNTY
Professional Engineering Services
Agreement #C-22-0308-08-18

WORK AUTHORIZATION NO. 2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-22-0308-08-18, incorporated herein by reference, for the “**Extension of Shary Road 2 Miles North of SH 107**” made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the “**Owner,**” and SAMES, Inc., hereinafter called “**Engineer**”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide services for the development of PS&E, Geotechnical and Utility Coordination;

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment “A”** – “*Scope of Services to be provided by Engineer*” attached hereto and incorporated by reference.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$ 1,003,405.00**. This amount is based upon the costs outlined in the **Attachment “B”** – “*Fee Proposal*” attached hereto and incorporated by reference.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services Agreement No. C-22-0308-08-18** between the **Owner** and the **Engineer**.

PART 4. FUNDING

This Work Authorization No. 3 shall be funded through funding source:
Account No. _____

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 the scopes of the Work Authorization, within the limits of Agreement No. #C-22-0308-08-18, provided in this Work Authorization; or on (_____ DATE _____).** *If applicable:* Engineer shall conform to the approved “Work/Project Schedule”, attached hereto and incorporated by reference herein as **Attachment “C”**.

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties’ responsibilities and obligations provided under the **Agreement No. C-22-0308-08-18.**

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted and approved by the Hidalgo County Commissioners Court and hereby executed and effective as of the date indicated below.

APPROVED BY COMMISSIONERS’ COURT ON October 28, 2025.

Agenda Item No.101226

Executive Office: _____

ENGINEER:
SAMES, INC.

COUNTY:
COUNTY OF HIDALGO

Samuel Maldonado, P.E, R.P.L.S., CEO

Hon. Richard F. Cortez, County Judge

ATTEST:

Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS:

Attachment “A” – *Scope of Services to be provided by Engineer*

Attachment “B” – *Fee Proposal*

Attachment “C” – *Approved Work/Project Schedule (If applicable)*

ATTACHMENT “A”
Scope of Services by the Engineer

The work to be furnished by the **Engineer** shall consist of management and engineering services for improvements in relation to the Shary Road Widening Project. The work shall be developed in accordance with the **Owner**, TxDOT, Federal, and all applicable design requirements, standards and in a format acceptable to the **Owner** and the reviewing agencies.

The Engineer shall render specific management and engineering services for the development of the **Project**, specific to PHASE II SCOPE OF WORK fulfillment of this Agreement as follows:

- I. PHASE I SCOPE OF WORK (PRELIMINARY PHASE) –
 - A. GENERAL PROJECT MANAGEMENT, ADMINISTRATION
 - B. SCHEMATIC DESIGN
 - C. FIELD SURVEYING & ROW MAPPING
 - D. ENVIRONMENTAL ASSESSMENT
 - E. ACQUISITION SERVICES

- II. PHASE II SCOPE OF WORK (DESIGN PHASE) –
 - A. GENERAL PROJECT MANAGEMENT, ADMINISTRATION
 - B. PLANS, SPECIFICATIONS, AND ESTIMATES (PS&E)
 - C. UTILITY COORDINATION & SUBSURFACE INVESTIGATION
 - D. GEOTECHNICAL ENGINEERING

- III. PHASE III SCOPE OF WORK (CONSTRUCTION PHASE) –
 - A. LOCAL LET BID PACKAGE DEVELOPMENT
 - B. BID PHASE ADMINISTRATION SUPPORT

II. PHASE II SCOPE OF WORK (DESIGN PHASE) -

GENERAL PROJECT MANAGEMENT

Services for GENERAL PROJECT MANAGEMENT by the Engineer will include the following (The list below details the major components required for the project, but is not intended to be an all-inclusive list of all services provided/required):

- 1. Project/Program Schedule.
- 2. Coordination/Meetings/Site Visits. The Owner may require the Engineer to attend local public hearings, policy meetings and upon request attend Owner staff meetings. The Engineer shall assist the Owner, as requested, at meetings with Federal, TxDOT, or other necessary entities as required.

PLANS, SPECIFICATIONS, AND ESTIMATE (PS&E)

The Engineer will develop the final design and prepare contract drawings, specifications and estimates for construction of the Project or portions of the Project as authorized by the Owner. These documents will be submitted to the applicable city, county, state, and/or federal agencies for approval.

The Engineer will complete a Design Summary Report (DSR) for each project,

All final plan sheets will be developed by the Engineer on 11" x 17" reproducible, to scale.

The Engineer shall prepare graphic files that can be reviewed and plotted utilizing Micro-Station /AutoCAD software. The graphic files submitted must be compatible with Micro-Station/AutoCAD System without conversion or modification and must plot consistent with reproducible plots submitted.

Plan Sheets. Plan sheets developed by the Engineer will include, but not limited to, title sheet, typical sections, estimates and quantity, plan-profile, channel details, roadway details, bridge and culvert details, hydraulic details, and standards.

Specifications – The Engineer shall use the latest Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges. Other specifications may be developed by the Engineer, but must incorporate, references to standard TxDOT requirements of design & testing procedures.

Estimates – The Engineer will prepare detailed cost estimates and proposals of authorized construction, which will include summaries of bid items and quantities based on the unit price system of bidding.

All plots and graphic media provided by the Engineer as a result of this Agreement shall be delivered to the Owner. Final payment for plan sheet documents and/or associated, applicable engineering files will not be made until the files furnished by the Engineer have been demonstrated to be useable in the formats described above and herein.

Services for FINAL DESIGN AND PLANS, SPECIFICATIONS AND ESTIMATES by the Engineer will include the following:

Roadway Design Controls

The Engineer will prepare the roadway design for the Project or portions of the Project as authorized by the Owner. The roadway design will be submitted to the applicable city, county, state, and/or federal agencies for approval.

Roadway design controls will include:

- 1) Geometric design – horizontal and vertical alignments, intersection geometrics; to be incorporated onto plan and profile sheets.
- 2) Geometric and grading design – development of typical roadway sections through horizontal and vertical alignment determination and roadway cross sections.
- 3) Grading design – existing and design cross sections, cut/fill quantities, slope stability analysis, embankment foundation stability and settlement analysis.
- 4) Earthwork Quantities – obtained from grading design.
- 5) Miscellaneous supplemental plan details.

Drainage

The Engineer will perform final hydrologic/hydraulic analysis for the design of proposed drainage improvements and or detention areas required for the Project in accordance to State standards.

Signage

The Engineer will determine location and type of warning, regulatory, and guide signs as required by the applicable standards. All signage design will be based on the final proposed roadway design and quantified.

Permanent Pavement Markings

The Engineer with the Owner will evaluate the need for pavement markings and design all permanent pavement markings in accordance with the latest applicable standards. All such designs shall be based on the final proposed roadway design.

Miscellaneous

If required for the Project or portion of the Project approved by the Owner, the Engineer will provide the following miscellaneous roadway items:

Miscellaneous Drafting, Standards, and Details

- 1) The Engineer will prepare a title sheet indicating, at a minimum, project limits, project location map, name of owner, facility identification, specification reference, Engineer's seal, signature, and date.
- 2) The Engineer will determine appropriate standard drawings to be incorporated into the plans, and sign/seal any modifications to any agency or industry approved standards.
- 3) The Engineer will develop details to clarify any construction requirement of the plan drawings.

PS&E Supporting Documents

- 1) Specifications List and general Notes. The Engineer will prepare an applicable specification list, in TxDOT format, as well as any general notes that may be applicable to each PS&E submission.
- 2) Estimates. The Engineer will prepare detailed cost estimates and proposals of authorized construction, which will include summaries of bid items and quantities based, insofar as practicable, on the unit price system of bidding.
- 3) Contract Time Determination Statement. The Engineer will determine the time required for construction of the project, outlining phases of construction and appropriate rates of production and construction for bid items determined to be in the critical path for construction of the PS&E submittal.

UTILITY COORDINATION & SUBSURFACE COORDINATION

- 1) Utility Coordination & Subsurface Investigation. The Engineer will coordinate with wet/dry utilities to ensure mitigation of conflicts with proposed improvements. Gather historical records and field information as needed to verify location including completion of Quality Level A test holes. Such information will enable confirmation of possible compensable utilities which Engineer will coordinate any required agreements.

GEOTECHNICAL ENGINEERING

- 1) Geotechnical Investigation. The Engineer will coordinate and manage a subconsultant to complete the required geotechnical investigation bores for the soil testing required for pavement design and backfill recommendations.

"ATTACHMENT B"
WORK SCHEDULE
 Shary Road
 (From SH 107 to Mile 9)

TASK AND DESCRIPTION	ENTITY	2025						2026						2027						2028																	
		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
WORK AUTHORIZATION #1 TASKS																																					
ROW Mapping & ROW Acquisition																																					
Prepare ROW Map/Pacel Sketches & Field Notes	SAMES																																				
ROW Parcel Negotiations (Approx 30 Parcels)	SAMES																																				
Payments for Parcels	HC3																																				
Condemnation Support	HC3																																				
Eminent Domain Proceedings	HC3																																				
Project Planning and Programming																																					
Initiate coordination with RGVMPPO for project funding*	SAMES																																				
Amend RGVMPPO TIP/MTP to fund project	RGVMPO																																				
Coordinate Functional Classification of project	RGVMPO																																				
Coordinate with RGVMPPO for inclusion into the UTP	RGVMPO																																				
AFA coordination with TxDOT	SAMES																																				
AFA Approval	TxDOT																																				
Schematic, Env & Public Involvement																																					
Environmental Scoping Meeting	SAMES																																				
Public Involvement for Public Meeting	GDJ																																				
Advertise & Conduct Public Meeting	SAMES																																				
Schematic Development For ROW Parcels	SAMES																																				
Hydrologic Map	GDJ																																				
Submit Schematic to TxDOT (After Public Meeting - TxDOT Req.)	HC3																																				
TxDOT Schematic Approval	TxDOT																																				
Environmental Document Preparation	GDJ																																				
Submit Final Draft Document	GDJ																																				
Agency Review & Revisions	TxDOT																																				
Environmental Decision	TxDOT																																				
WORK AUTHORIZATION #2 TASKS																																					
Utility Coordination	SAMES																																				
Outfall Coordination with HCDD #1	SAMES																																				
Geotechnical Drilling & Engineering	SAMES																																				
PS&E Completion	SAMES																																				
TxDOT Review	TxDOT																																				
Construction Operations Begin	PHARR																																				

SAMES TASK
 HIDALGO COUNTY TASK
 RGVMPPO/TxDOT/FHWA TASK
 TxDOT TASK

"Exhibit C" Fee Estimate

Hidalgo County Precinct #3: Shary Road Extension - Project Development & Design Fee Proposal SH 107 to Mile 9

<i>Project Development (Schematic, Environmental, PS&E, ROW) Fee Proposal - Hidalgo County Pct. #3: Shary Road Extension Project</i>			MANHOURS							Total Hours	Total Line Item Cost	
			Principal/Senior Manager	Sr. Project Manager (PE)	Project Engineer (PE)	Design Engineer	EIT	CAD Tech III	GPS Crew			Admin/Clerical
TASK												
		PHASE II - PS&E, Geotechnical & Utility Coordination										
	15	PS&E Development	240	581	342	1254	1900	2528	40	308	7193	\$ 753,235.00
	16	Geotechnical Testing & Pavement Design						SUBCONSULTANT GEOTECHNICAL COST				\$ 78,000.00
	17	Permitted Utility Coordination	6	24	60	110	48	122		4	374	\$ 41,860.00
	18	Compensable Utility Coordination	26	64	120	216	94	276		12	808	\$ 91,310.00
	19	Subsurface Utility Engineering (10 potholes)						SUBCONSULTANT SUE COST				\$ 9,000.00
	20	Project Management	14	32	32	24				26	128	\$ 17,950.00
	21	Project Site Visits	6	22	22	30					80	\$ 12,050.00
		Subtotal (PHASE II)	292	723	576	1634	2042	2926	40	350	8583	\$ 1,003,405.00
Total Labor Hours			292	723	576	1634	2042	2926	40	350	8583	
Contract Rate			\$ 200.00	\$ 175.00	\$ 175.00	\$ 105.00	\$ 105.00	\$ 75.00	\$ 150.00	\$ 55.00		
Total Labor Costs			\$ 58,400.00	\$ 126,525.00	\$ 100,800.00	\$ 171,570.00	\$ 214,410.00	\$ 219,450.00	\$ 6,000.00	\$ 19,250.00		\$ 1,003,405.00