

HIDALGO COUNTY UCP
Professional Construction Material Testing Services

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Article 1 of the Agreement made by and between **HIDALGO COUNTY**, acting herein by and through the **Hidalgo County Urban County Program**, hereinafter called the “Owner,” and, **Raba Kistner, Inc.**, professional engineers of **McAllen**, Texas, hereinafter called “Engineer”.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide **Professional Construction Material Testing Services for the 2024 San Juan Street Improvement Project.**

The scope of services to be provided by the **Owner** is identified in *ATTACHMENT “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 *ATTACHMENT “B” – Scope of Services to be Provided by the Engineer* attached hereto.

PART 2. CONTRACT AMOUNT

The estimated cost for services under this Work Authorization is \$ **8,870.40.** This amount is based upon the costs outlined in the **Contract Amount** attached hereto as **ATTACHMENT “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 4** of the Agreement.

PART 4. FUNDING

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

Account No. **5024-75-0311-0000-0000**

Requisition/Purchase Order 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 scopes of the work authorization within the contract limits of two (2) years from approval of contract.**

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 Urban County Program**, as to content and detail of this **Work Authorization No. 1**.

**HIDALGO COUNTY
URBAN COUNTY PROGRAM**

BY: _____
Joel Rivera, Ph.D., UCP Director

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on **July 8, 2025** as indicated below and effective as of **8** day of July, **2025**.

**THE ENGINEER:
RABA KISTNER, INC.**

**THE OWNER:
HIDALGO COUNTY**

By: Katrin M. Leonard, P.E, Vice President

By: Richard F. Cortez, County Judge

ATTEST:

BY: _____
Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS

- ATTACHMENT "A" - Service to be provided by the Owner
- ATTACHMENT "B" - Services to be provided by the Engineer
- ATTACHMENT "C" - Work Schedule
- ATTACHMENT "D" - Contract Amount

Attachment "A"

Scope of Services to be Provided by the "Owner"

The following provides an outline of the services to be provided by the Owner in the development (as defined and more particularly identified on Exhibit "A attached to this Agreement).

General:

The Owner will provide to the Engineer the following:

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

Attachment "B"

EXHIBIT B

- Services to be Provided by the Engineer -

The services to be provided by the ENGINEER in providing Geotechnical Testing Services and Construction Materials Testing Services to Hidalgo County (OWNER) "ON A AS NEEDED BASIS" for projects located within the Hidalgo County, as follows:

A. Preliminary Phase:

- 1) Attend preliminary conferences with the OWNER and, if requested, with the funding agency and other government agencies or interested parties regarding the Project.
- 2) Provide for the necessary geotechnical investigation and testing necessary to develop design.
- 3) Provide assistance to the OWNER in providing material requirements and specifications for design, construction and maintenance projects.
- 4) Provide assistance to the OWNER in providing pavement design recommendations for the design, construction and maintenance projects.
- 5) Provide assistance to the OWNER in providing pavement rehabilitation recommendations for the design, and maintenance projects.
- 6) Provide assistance to the OWNER in providing pavement condition studies.

B. Design Phase:

- 1) Attend the OWNER'S and respective Party's meeting as requested for the purpose of explaining geotechnical investigation report recommendations and preliminary testing results and their impact to proposed design activities.
- 2) Perform any additional geotechnical investigations, testing and environmental studies necessary to collect information required in the design of the Project.
- 3) Provide assistance to the OWNER in providing material requirements and specifications for design, construction and maintenance projects.
- 4) Provide assistance to the OWNER in providing pavement design recommendations for the design, construction and maintenance projects.
- 5) Provide assistance to the OWNER in providing pavement rehabilitation recommendation for the design, construction and maintenance projects.
- 6) Provide assistance to the OWNER in providing pavement condition studies.
- 7) Furnish the OWNER all necessary report for preliminary design, design, and construction and maintenance projects.

C. Construction/Maintenance Phase:

- 1) Attend the OWNER'S and respective Party's pre-construction and construction meetings as requested for the purpose of explaining geotechnical investigation report recommendation and preliminary testing results and their impact to proposed

construction activities and establish coordination and lines of communication for proposed construction materials testing during construction activities.

- 2) Consult and advise with the OWNER during construction.
- 3) Provide construction materials testing for construction and maintenance project as required by the project plans and specifications and/or specified by the project design Laboratory.
- 4) Review all material designs as requested by the OWNER and/or project design Laboratory.
- 5) Furnish the OWNER all necessary reports for construction and maintenance projects.
- 6) Provide construction observation services as requested by the OWNER on construction and maintenance projects.

D. Miscellaneous/Other:

- 1) Act for Owner in professional manner, using that degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- 2) Perform all technical services under the general direction of a Licensed Professional Laboratory in the State of Texas and in substantial accordance with the basic requirements of the appropriate Standards of the American Society for Testing and Materials, where applicable, or other standards designated by County.
- 3) Employ testing machines which have been calibrated within a period not exceeding twelve (12) months from the time of use by devices of accuracy traceable to the National Institute for Standards and Technology (NIST) of the United States Department of Commerce, and, upon request, submit to the OWNER or its authorized representative documentation of such calibration.
- 4) Promptly submit formal construction materials testing reports for all tests, observations and services performed indicating where applicable, compliance with OWNER specifications or other documents. Such reports shall be completed and factual, citing the tests performed, methods employed, values obtained, parts of the structure and location at which tests were made.
- 5) The plans and specifications prepared under this Agreement shall become the property of the OWNER upon completion of the work and payment in full of all monies due to the Laboratory.
- 6) Retain all pertinent records relating to the services performed for a period of five (5) years following submission of all reports, during which period the records will be made available to the Owner within a reasonable time.

NOTE: Change in and/or additional services to Scope will require prior approval from Owner prior to undertaking.

Attachment "C"

EXHIBIT C

- Engineer's Rates -

GEOTECHNICAL ENGINEERING - SCHEDULE OF FEES

<u>REFERENCE</u>	<u>FIELD SERVICES</u>	<u>RATES</u>
	Soil Boring (Solid Auger, Hollow Stem Auger, and Mud Rotary- Including Sampling) Soil (Existing Ground Surface to 50 ft.) Soil (Below 50 ft.) Soft Rock	\$16.00/ft \$19.00/ft By Quote
	Nx Rock Core Rock Coring	By Quote
	Field Logging Services Engineering Technician Registered Geologist Staff Engineer (E.I.T.) Licensed Professional Engineer (P.E.)	\$ 69.00/hr \$172.50/hr \$160.75/hr \$224.00/hr
	Field Coordination Field Engineer (E.I.T.) Engineering Technician (Flagman)	\$160.75/hr \$ 69.00/hr
	Mobilization Truck-Mounted Rig, Drill Crew and Support Field Logger Trip Charge (ARDCO 4x4 all terrain rig) Barge Mobilization and Rental	\$337.25/ls \$1.25/mile Cost + 15% Cost + 15%
	Other Expenses/Charges Standby Time Mileage – Non-Drilling Equipment Grout/Bentonite Backfill Dozer/Clearing Cost Concrete/AC Patch Traffic Control – Signs, Barricades, etc. All Other Outside Expenses	\$261.50/hr \$ 1.25/mile \$ 7.75/ft Cost + 15% \$56.50/ea Cost + 15% Cost + 15%
<u>REFERENCE</u>	<u>LABORATORY SERVICES</u>	<u>RATES</u>
ASTM D 2217, D 4318	Plasticity Index (Atterberg Limits)	\$117.50/ea.
ASTM D 2216; TxDOT, TEX-103-E	Moisture Content	\$ 15.00/ea
ASTM D 427	Shrinkage Limit in Conjunction with Atterberg Limits a) Volumetric b) Linear (TxDOT, TEX-107-E)	\$162.75/ea \$162.75/ea
ASTM D 422; TxDOT, TEX-101-E; TxDOT, TEX-110-E	Sieve Analysis a)Washed Through No. 40 (Up to 5 Sieves) b)Washed Through No. 200 (Up to 4 Sieves) c) Additional Sieves	\$ 81.00/ea \$131.75/ea \$ 18.00/ea
ASTM D 1140	Amount Finer Than No. 200 Sieve	\$ 80.00/ea

EXHIBIT C

- Engineer's Rates -

GEOTECHNICAL ENGINEERING - SCHEDULE OF FEES

<u>REFERENCE</u>	<u>LABORATORY SERVICES</u>	<u>RATES</u>
ASTM D 854; TxDOT, TEX-108-E	Specific Gravity	\$131.25/ea
ASTM D 422; TxDOT, TEX-110-E	Hydrometer Analysis (Includes Sample Preparation and Grain Size Curve)	\$ 437.75/ea
ASTM D 2166	Unit Dry Weight	\$ 45.00/ea
ASTM 4318	Lime Series	\$ 563.00/ea
ASTM D 2166 ASTM D 1938	Unconfined Compression (Includes Unit Dry Weight) a) Soil Shelby Tube Specimens b) Rock Core Specimens (1) Sawed Specimen Ends	\$ 69.00/ea \$ 75.00/ea \$ 17.50/end
ASTM D 2850	Triaxial Compression Unconsolidated-Undrained, Multistage	\$ 442.25/ea
ASTM D 3080	Direct Shear a) Unconsolidated-Undrained b) Consolidated-Drained (Sand)	\$ 352.25/ea \$ 687.00/ea
ASTM D 2435	Consolidation with Hysteresis Loop (Not Including Specific Gravity)	\$1,094.00/ea
	Corrosivity (pH, chloride, sulfate, resistivity)	\$ 554.00/ea
	pH	\$ 73.00/ea
	Resistivity	\$ 374.00/ea
	Sulfate Content	\$ 125.75/ea
	Chloride Content	\$ 72.00/ea
	Swell Test	
	a) Method "A"	\$ 1,617.00/ea
	b) Method "B"	\$ 283.25/ea
	a) Method "C"	\$ 1,940.50/ea
	b) Modified Method "B"	\$ 251.75/ea

GEOTECHNICAL ENGINEERING AND REPORTING SERVICES

Principal Engineer (P.E.)	\$ 273.00 to 459.25/hr
Licensed Professional Engineer (P.E.)	\$ 177.00 to 303.00/hr
Staff Engineer, E.I.T.	\$ 140.50 to 243.00/hr
Registered Geologist	\$ 172.50/hr
Draftsman	\$ 114.25/hr
Outside Professional Services	Cost + 15%
Additional Insured	\$ 326.00/ea
Secretarial	\$ 72.00 to 121.50/hr
Vehicle Travel Charge	\$ 1.25/mile

NOTE: Geotechnical engineering services costs will be computed based on the above referenced field, laboratory, and personnel and equipment unit rates once specific project(s) and related scope of service(s) have been identified. The fee schedule presented in this attachment is subject to an annual 4% increase to reflect the increases in costs in the provision of the services.

Raba Kistner, Inc.
2024 San Juan Street Improvements
5024-75-0311-5000-0000-UCP-EP

Exhibit C
Attachment "D"

Construction Materials Testing Services
Fee Estimate Breakdown - Hidalgo County Urban County - 2024 San Juan Street Improvements

SERVICE	UNIT RATE		QUANTITY	TOTAL
Civil Earthwork:				
1. Moisture-Density Relationship (Proctor)	\$324.00	each	2	\$648.00
2. Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	\$118.00	each	2	\$236.00
3. Sieve Analysis	\$131.75	each	2	\$263.50
4. Sieve Analysis - 200	\$81.00	each	As Requested	
5. Technician Time Sampling	\$69.00	hour	2	\$138.00
6. Vehicle Travel Charge	\$65.00	trip	1	\$65.00
7. Field Density Test	\$29.25	each	16	\$468.00
8. Technician Time	\$69.00	hour	16	\$1,104.00
9. Vehicle Travel Charge	\$65.00	trip	8	\$520.00
Subtotal				\$3,442.50
Asphalt:				
1. Asphalt Concrete Laydown Observation	\$83.50	hour	9	\$751.50
2. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphaltic Concrete	\$400.00	each	3	\$1,200.00
3. Maximum Theoretical Specific Gravity of Asphalt	\$145.75	each	6	\$874.50
4. Field Density Test	\$29.25	each	4	\$117.00
5. Asphaltic Concrete Coring:				
a.) Two Men	\$142.50	hour	12	\$478.50
b.) Coring Rig	\$159.50	day	3	\$492.00
c.) Generator	\$164.00	day	3	\$87.00
d.) Bit Wear	\$7.25	/in. -in.	12	\$87.00
6. Vehicle Travel Charge	\$65.00	trip	6	\$390.00
Subtotal				\$4,477.50
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	12%			\$950.40
Subtotal				\$950.40
			TOTAL	\$8,870.40