

WORK AUTHORIZATION NO. 1

**HIDALGO COUNTY
Professional Construction
Material Testing Engineer Services**

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

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the “engineering services” to provide **Construction material testing engineer services for San Juan 2016 Street Improvements.**

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$18,940.90**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT “A”**.

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

WORK AUTHORIZATION NO. **1** shall be funded through funding source:

ACCOUNT NO. **5016-75-0311-5000-7500-UCP-GVG**

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 scope of the work authorization.**

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, Diana Serna (Director) as to content and detail of this **Work Authorization No. 1**.

**HIDALGO COUNTY
URBAN COUNTY PROGRAM**

BY: _____
DIANA R. SERNA, UCP DIRECTOR

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on July 11, 2017 as indicated below and effective as of **11th day of July, 2017**.

THE ENGINEER:

**THE OWNER:
HIDALGO COUNTY**

By: Isidoro Arjona, P.E. PMP, Vice President

By: Ramon Garcia, County Judge

ATTEST:

Arturo Guajardo Jr., County Clerk

**APPROVED AS TO FORM:
Atlas, Hall & Rodriguez, L.L.P.**

By: _____

Exhibit A: Cost Proposal : (Best & Final Offer Letter & Cost Breakdown)



Proposal No.: PMD17-059-00
June 16, 2017

Exhibit "A"

**Raba Kistner
Consultants, Inc.**
800 E. Hackberry
McAllen, TX 78501
www.rkci.com

P 956.682.5332
F 956.682.5487
TBPE Firm F-3257
TBPLS Firm 10193784

Ms. Diana R. Serna, Director
Urban County Program
427 E. Duranta Avenue
Alamo, Hidalgo County, Texas

**RE: Proposal for Construction Materials Observation and Testing Services
City of San Juan - Urban County Program
Year 2016 Street Improvements
Pullen Avenue, Hooper Avenue, Coconut Palm Drive and Salazar Street
San Juan, Hidalgo County, Texas**

Dear Ms. Serna:

RABA KISTNER Consultants, Inc. (RKCI) is pleased to have been selected to provide Construction Materials Observation and Testing Services for the above referenced project.

Our opinion of probable cost of services for this project is:

Pullen Avenue	\$4,776.75.
Hooper Avenue	\$4,776.75.
Coconut Palm Avenue	\$4,776.75.
<u>Salazar Street</u>	<u>\$4,610.65.</u>
Grand Total:	\$18,940.90.

Our proposed scope of services and estimated item quantities are based upon our interpretation of the documents received by our office via electronic-mail attachment from Mr. Javier Hinojosa, P.E., with Javier Hinojosa Engineering, the project's civil engineering firm, on Tuesday, May 30, 2017 and are without the aid of the general contractor's schedule. The scope and quantity of services provided will be dependent upon the actual services required/requested by you and/or your representatives. Charges will be assessed only for actual services rendered. All services authorized or requested by you and/or your representatives in excess of the quantities of observation and testing services shown herein will be charged at the appropriate unit rate for such services. Charges will be invoiced on a monthly basis and will show a computerized composite total of services rendered for each service category.

This amount should not be considered a maximum but is **RKCI's** estimate of the probable costs associated with implementing the work outlined on Page Nos. 4, 5, 6 and 7 of this document. The means/methods, sequencing, and scheduling of the Contractor and its Subcontractors, can significantly impact our estimate of the probable cost. If **RKCI's** services will exceed the estimated amount, **RKCI** must obtain written authorization from the client prior to rendering such services.



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Invoices will be submitted monthly for work in progress in our standard format. Our invoices are due and payable upon receipt at P.O. Box 971037, Dallas, Dallas County, Texas 75397-1037. All parties hereby agree that this contract upon acceptance will be performable in Bexar County, Texas. In the event that the State of Texas legislates a sales tax on professional services, the amount of tax applicable will be added to the appropriate service rate charged by **RKCI**.

We appreciate the opportunity of submitting this proposal and look forward to working with you during the construction of this project. Please return one signed copy of this letter proposal to provide written authorization for our firm to commence work on the services outlined herein. Please complete the attached Project Data Sheet for invoicing and reporting information.

Very truly yours,

RABA KISTNER Consultants, Inc.



Jorge L. Perez
Supervisor, CME

JLP/WP

Attachments: Basic Charges

II – Schedule of Fees

Copies submitted: Above (1)

Accepted By _____
(Signature)

(Typed or Printed Name)

(Title)

Date _____



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CONSTRUCTION MATERIALS TESTING UNIT RATES
PULLEN AVENUE

SERVICE	UNIT RATE		QUANTITY	TOTAL
Civil and Building Pads Earthwork:				
1. Moisture-Density Relationship (Proctor)	\$230.00	each	1	\$230.00
2. Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	\$84.00	each	1	\$84.00
3. Sieve Analysis -200	\$56.75	each	0	\$0.00
4. Sieve Analysis - Flexible Base Material	\$56.75	each	1	\$56.75
5. Lime Series Curve Determination Including Five pH Determinations	\$412.50	each	0	\$0.00
6. Technician Time Sampling	\$49.25	hour	2	\$98.50
7. Field Density Test	\$21.00	each	8	\$168.00
8. Technician Time - Density Testing	\$49.25	hour	5	\$246.25
9. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$1,023.75
Concrete: Civil				
1. Concrete Compressive Strength Tests	\$15.50	each	10	\$155.00
2. Technician Time - Concrete Testing	\$49.25	hour	4	\$197.00
3. Air Content of Concrete	\$28.75	each	2	\$57.50
4. Technician Time - Pick-Up of Specimen(s)	\$49.25	hour	4	\$197.00
5. Vehicle Travel Charge	\$46.75	trip	4	\$187.00
Subtotal				\$793.50
Asphalt:				
1. Asphaltic Concrete Laydown Observation	\$59.00	hour	10	\$590.00
2. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphaltic Concrete	\$283.75	each	2	\$567.50
3. Maximum Theoretical Specific Gravity of Asphalt	\$104.00	each	2	\$208.00
4. Field Density Test-Parking Area	\$16.50	each	8	\$132.00
5. Asphaltic Concrete Coring:				
a.) Two Men	\$101.25	hour	4	\$405.00
b.) Coring Rig	\$113.00	day	1	\$113.00
c.) Generator	\$95.50	day	1	\$95.50
d.) Bit Wear - Quartz Aggregate (River Gravel)	\$6.00	ln.-ln.	32	\$192.00
6. Core Densities	\$20.50	each	4	\$82.00
5. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$2,525.25
Professional Services:				
1. Project Coordination	\$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	\$165.00	each	As requested	
3. Vehicle Travel Charge	\$25.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			\$434.25
Subtotal				\$434.25
GRAND TOTAL				\$4,776.75



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CONSTRUCTION MATERIALS TESTING UNIT RATES

HOOPER AVENUE

SERVICE	UNIT RATE		QUANTITY	TOTAL
Civil and Building Pads Earthwork:				
1. Moisture-Density Relationship (Proctor)	\$230.00	each	1	\$230.00
2. Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	\$84.00	each	1	\$84.00
3. Sieve Analysis -200	\$56.75	each	0	\$0.00
4. Sieve Analysis - Flexible Base Material	\$56.75	each	1	\$56.75
7. Lime Series Curve Determination Including Five pH Determinations	\$412.50	each	0	\$0.00
4. Technician Time Sampling	\$49.25	hour	2	\$98.50
5. Field Density Test	\$21.00	each	8	\$168.00
6. Technician Time - Density Testing	\$49.25	hour	5	\$246.25
7. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$1,023.75
Concrete: Civil				
1. Concrete Compressive Strength Tests	\$15.50	each	10	\$155.00
2. Technician Time - Concrete Testing	\$49.25	hour	4	\$197.00
3. Air Content of Concrete	\$28.75	each	2	\$57.50
4. Technician Time - Pick-Up of Specimen(s)	\$49.25	hour	4	\$197.00
5. Vehicle Travel Charge	\$46.75	trip	4	\$187.00
Subtotal				\$793.50
Asphalt:				
1. Asphaltic Concrete Laydown Observation	\$59.00	hour	10	\$590.00
2. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphaltic Concrete	\$283.75	each	2	\$567.50
3. Maximum Theoretical Specific Gravity of Asphalt	\$104.00	each	2	\$208.00
4. Field Density Test-Parking Area	\$16.50	each	8	\$132.00
4. Asphaltic Concrete Coring:				
a.) Two Men	\$101.25	hour	4	\$405.00
b.) Coring Rig	\$113.00	day	1	\$113.00
c.) Generator	\$95.50	day	1	\$95.50
d.) Bit Wear - Quartz Aggregate (River Gravel)	\$6.00	ln.-ln.	32	\$192.00
5. Core Densities	\$20.50	each	4	\$82.00
5. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$2,525.25
Professional Services:				
1. Project Coordination	\$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	\$165.00	each	As requested	
3. Vehicle Travel Charge	\$25.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			\$434.25
Subtotal				\$434.25
GRAND TOTAL				\$4,776.75



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CONSTRUCTION MATERIALS TESTING UNIT RATES
COCONUT PALM AVENUE

SERVICE	UNIT RATE		QUANTITY	TOTAL
Civil and Building Pads Earthwork:				
1. Moisture-Density Relationship (Proctor)	\$230.00	each	1	\$230.00
2. Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	\$84.00	each	1	\$84.00
3. Sieve Analysis -200	\$56.75	each	0	\$0.00
4. Sieve Analysis - Flexible Base Material	\$56.75	each	1	\$56.75
7. Lime Series Curve Determination Including Five pH Determinations	\$412.00	each	0	\$0.00
4. Technician Time Sampling	\$49.25	hour	2	\$98.50
5. Field Density Test - Building Pad	\$21.00	each	8	\$168.00
6. Technician Time - Density Testing - Building Pad	\$49.25	hour	5	\$246.25
7. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$1,023.75
Concrete: Civil				
1. Concrete Compressive Strength Tests	\$15.50	each	10	\$155.00
2. Technician Time - Concrete Testing	\$49.25	hour	4	\$197.00
3. Air Content of Concrete	\$28.75	each	2	\$57.50
4. Technician Time - Pick-Up of Specimen(s)	\$49.25	hour	4	\$197.00
5. Vehicle Travel Charge	\$46.75	trip	4	\$187.00
Subtotal				\$793.50
Asphalt:				
1. Asphaltic Concrete Laydown Observation	\$59.00	hour	10	\$590.00
2. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphaltic Concrete	\$283.75	each	2	\$567.50
3. Maximum Theoretical Specific Gravity of Asphalt	\$104.00	each	2	\$208.00
4. Field Density Test-Parking Area	\$16.50	each	8	\$132.00
5. Asphaltic Concrete Coring:				
a.) Two Men	\$101.25	hour	4	\$405.00
b.) Coring Rig	\$113.00	day	1	\$113.00
c.) Generator	\$95.50	day	1	\$95.50
d.) Bit Wear - Quartz Aggregate (River Gravel)	\$6.00	in.-in.	32	\$192.00
6. Core Densities	\$20.50	each	4	\$82.00
7. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$2,525.25
Professional Services:				
1. Project Coordination	\$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	\$165.00	each	As requested	
3. Vehicle Travel Charge	\$25.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			\$434.25
Subtotal				\$434.25
			GRAND TOTAL	\$4,776.75



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CONSTRUCTION MATERIALS TESTING UNIT RATES

SALAZAR STREET

SERVICE	UNIT RATE		QUANTITY	TOTAL
Civil and Building Pads Earthwork:				
1. Moisture-Density Relationship (Proctor)	\$230.00	each	1	\$230.00
2. Atterberg Limits Determinations (P.I.) (ASTM/AASHTO)	\$84.00	each	1	\$84.00
3. Sieve Analysis -200	\$56.75	each	0	\$0.00
4. Sieve Analysis - Flexible Base Material	\$56.75	each	1	\$56.75
7. Lime Series Curve Determination Including Five pH Determinations	\$412.50	each	0	\$0.00
4. Technician Time Sampling	\$49.25	hour	2	\$98.50
5. Field Density Test - Building Pad	\$21.00	each	6	\$126.00
6. Technician Time - Density Testing - Building Pad	\$49.25	hour	5	\$246.25
7. Vehicle Travel Charge	\$46.75	trip	3	\$140.25
Subtotal				\$981.75
Concrete: Civil				
1. Concrete Compressive Strength Tests	\$15.50	each	10	\$155.00
2. Technician Time - Concrete Testing	\$49.25	hour	4	\$197.00
3. Air Content of Concrete	\$28.75	each	2	\$57.50
4. Technician Time - Pick-Up of Specimen(s)	\$49.25	hour	4	\$197.00
5. Vehicle Travel Charge	\$46.75	trip	4	\$187.00
Subtotal				\$793.50
Asphalt:				
1. Asphaltic Concrete Laydown Observation	\$59.00	hour	8	\$472.00
2. Extraction, Gradation, Bitumen Content and Laboratory Density of Asphaltic Concrete	\$283.75	each	2	\$567.50
3. Maximum Theoretical Specific Gravity of Asphalt	\$104.00	each	2	\$208.00
4. Field Density Test-Parking Area	\$16.50	each	8	\$132.00
5. Asphaltic Concrete Coring:				
a.) Two Men	\$101.25	hour	4	\$405.00
b.) Coring Rig	\$113.00	day	1	\$113.00
c.) Generator	\$95.50	day	1	\$95.50
d.) Bit Wear - Quartz Aggregate (River Gravel)	\$6.00	in.-in.	32	\$192.00
6. Core Densities	\$20.50	each	4	\$82.00
5. Vehicle Travel Charge	\$49.75	trip	3	\$149.25
Subtotal				\$2,416.25
Professional Services:				
1. Project Coordination	\$110.00	hour	As requested	
2. Geotechnical / Materials Engineer	\$165.00	each	As requested	
3. Vehicle Travel Charge	\$25.75	trip	As requested	
Subtotal				
Other:				
1. Project Administration(Markup of Invoiced Billing Cycle)	10%			\$419.15
Subtotal				\$419.15
GRAND TOTAL				\$4,610.65

