

PO 185760  
DMS  
REC 532516

AGENDA

VISIT OUR WEBSITE AT:  
www.rkci.com

# INVOICE

INVOICE #: H013427

CONSULTANTS \* ENVIRONMENTAL \* FACILITIES \* INFRASTRUCTURE

**BILLING DATE :** 4/29/2020  
**CLIENT :** 09C04647  
Fort Bend County Texas

**PROJECT :** AHD1913200  
Various Roads in City of Arcola

**RABA KISTNER**  
ARCHITECTS AND ENGINEERS  
ARCHITECTS INSTRUCTIONS for RABA KISTNER, Inc.

Fort Bend County Texas  
P.O. Box 148  
Richmond, TX 77406-0148

**REMITTANCE ADDRESS:**  
RABA KISTNER, INC.  
P.O. BOX 971037  
DALLAS, TX 75397-1037

PHONE (210) 699-9090

## CONSULTING SERVICES

### INVOICE SUMMARY INFORMATION

Various Roads in City of Arcola

email invoices to: [enginvoices@fortbendcountytx.gov](mailto:enginvoices@fortbendcountytx.gov)  
PO No. 185760

FOR PROFESSIONAL SERVICES RENDERED THROUGH: 4/11/2020

DATE	REPORT / ASSIGNMENT	SERVICE	CODE	QUANTITY	RATE	UNIT	AMOUNT
03/16/2020	H20-011716	Technician NICET II HMA - 1A	107000	8.00	65.00	/HR	520.00
	H20-011716	Technician NICET II HMA-1A OT	107010	2.50	97.50	/HR	243.75
	H20-011716	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011716	Vehicle Charge	150000	10.50	10.00	/HR	105.00
	H20-011716	Nuclear Density Equipment Rental	951000	10.50	10.50	/HR	110.25
03/17/2020	H20-011750	Technician NICET II HMA - 1A	107000	8.00	65.00	/HR	520.00
	H20-011750	Technician NICET II HMA-1A OT	107010	2.00	97.50	/HR	195.00
	H20-011750	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011750	Vehicle Charge	150000	10.00	10.00	/HR	100.00
	H20-011750	Nuclear Density Equipment Rental	951000	10.00	10.50	/HR	105.00
03/18/2020	H20-011778	Technician NICET II HMA - 1A	107000	8.00	65.00	/HR	520.00
	H20-011778	Technician NICET II HMA-1A OT	107010	3.00	97.50	/HR	292.50
	H20-011778	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011778	Vehicle Charge	150000	11.00	10.00	/HR	110.00
	H20-011778	Nuclear Density Equipment Rental	951000	11.00	10.50	/HR	115.50
03/19/2020	H20-011843	Technician NICET II HMA - 1A	107000	8.00	65.00	/HR	520.00
	H20-011843	Technician NICET II HMA-1A OT	107010	0.50	97.50	/HR	48.75

\* Invoices are submitted monthly and are due on receipt. \* Carrying charges may be assessed on Invoices unpaid beyond 30 days from billing date.  
AP Apr-20 **PLEASE PAY FROM THIS INVOICE.**


**BILLING DATE :**  
 4/29/2020

**PROJECT :**  
 AHD1913200 09C04647  
 Various Roads in City of Arcola  
 Fort Bend County Texas

DATE	REPORT / ASSIGNMENT	SERVICE	CODE	QUANTITY	RATE	UNIT	AMOUNT
03/19/2020	H20-011843	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011843	Vehicle Charge	150000	8.50	10.00	/HR	85.00
	H20-011843	Nuclear Density	951000	8.50	10.50	/HR	89.25
		Equipment Rental					
03/20/2020	H20-011844	Technician NICET II HMA - 1A	107000	4.00	65.00	/HR	260.00
	H20-011844	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011844	Vehicle Charge	150000	4.00	10.00	/HR	40.00
	H20-011844	Compressive Strength	301000	4.00	20.00	/EA	80.00
03/24/2020	H20-011910	Nuclear Density	951000	10.50	10.50	/HR	110.25
		Equipment Rental					
	H20-011961	Technician NICET II HMA - 1A	107000	8.00	65.00	/HR	520.00
	H20-011961	Technician NICET II HMA-1A OT	107010	2.50	97.50	/HR	243.75
	H20-011961	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011961	Vehicle Charge	150000	10.50	10.00	/HR	105.00
03/25/2020	H20-011927	Technician NICET II HMA - 1A	107000	5.00	65.00	/HR	325.00
	H20-011927	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-011927	Vehicle Charge	150000	5.00	10.00	/HR	50.00
	H20-011927	Nuclear Density	951000	5.00	10.50	/HR	52.50
		Equipment Rental					
03/27/2020	H20-012014	Technician NICET II HMA - 1A	107000	7.50	65.00	/HR	487.50
	H20-012014	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-012014	Vehicle Charge	150000	7.50	10.00	/HR	75.00
04/03/2020	H20-012140	Technician NICET II HMA - 1A	107000	6.00	65.00	/HR	390.00
	H20-012140	Administrative/Engineering Assistant	115000	0.25	60.00	/HR	15.00
	H20-012140	Vehicle Charge	150000	6.00	10.00	/HR	60.00
	H20-012140	Nuclear Density	951000	6.00	10.50	/HR	63.00
		Equipment Rental					

**SUBTOTAL INVOICE \*** **6,677.00**
**AMOUNT DUE THIS INVOICE \*\*** **6,677.00**

Authorization Amount	\$	42,333.00
Amount Previously Billed	\$	20,474.39
Amount This Invoice	\$	6,677.00
Total Billed to Date	\$	27,151.39
Amount Remaining	\$	15,181.61

**Percent Billed** **64.14%**

\* Invoices are submitted monthly and are due on receipt. \* Carrying charges may be assessed on invoices unpaid beyond 30 days from billing date.  
 AP Apr-20 **PLEASE PAY FROM THIS INVOICE.**

Page: 2

**FIELD TEST REPORT****Soil/Base Material Nuclear Density Test**

ATTN.: MR. A. IKE AKINWANDE, P.E., S.E., MLSE  
 TO: FORT BEND COUNTY ENGINEERING DEPARTMENT  
 301 JACKSON STREET  
 4TH FLOOR  
 RICHMOND, TX U.S. 77469  
 PROJECT: Various Roads in City of Arcola



PROJECT NO.: AHD19-132-00  
 REPORT NO.: 34 , 1 of 2 (H20-011716)  
 REPORT VERSION: A  
 DATE: 03/16/2020  
 TECHNICIAN: PAUL J ELKINS  
 CERTIFICATION: NICET III SOILS

CONTRACTOR: Angel Brothers  
 SPECIFICATION: HC 433

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO. /DEPTH	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT COMPACTION (%)
	<u>Backfill Over 24" Dia. RCP Storm Line Located Along Manor Ave. North Side R.O.W.</u> Between STA: 17+85 and STA: 17+43					
160	Near STA: 17+92	1	Bedding	9.1	111.2	98
161	Near STA: 17+70	1	2nd	8.8	109.9	97
162	Near STA: 17+60	1	Top of Pipe	8.6	110.2	97
	<u>Backfill Over 24" Dia. RCP Storm Line Located Along Manor Ave. South Side R.O.W.</u> Between STA: 18+26 and STA: 18+66					
163	Near STA: 18+35	1	Bedding	9.0	110.7	98
164	Near STA: 18+52	1	2nd	8.5	108.6	96

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DEN. (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
1	Cement Stabilized Sand-CSS (Proposed Backfill Material)	10.3	113.4	0.1-10.3	95	ASTM D 558 Method B

REFERENCE: Backfill/Utility Lines

TRANS DEPTH: 6"  
 DENSITY COUNT: 2571 TEST MODE: Method A  
 MOISTURE COUNT: 421

FIELD TEST PROCEDURE: ASTM D 6938 GAUGE NO.: 3564

REMARKS: Lift information was provided by the contractor. Mr. Woodford Lusk w/Othon Consulting was verbally notified of field test results.

\* - Indicates noncompliance with specifications.

Depart Lab: 7:00 a.m. Arrive Site: 8:00 a.m. Lunch: 0.50 Hrs  
 Depart Site: 5:00 p.m. Arrive Lab: 6:00 p.m. Time: 10.50 Hrs

NOTICE: Raba Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from Raba Kistner Consultants, Inc.



Austin • Brownsville • Dallas • Houston • McAllen • Mexico • New Braunfels • Salt Lake City • San Antonio

**FIELD TEST REPORT****Soil/Base Material Nuclear Density Test**

ATTN.: MR. A. IKE AKINWANDE, P.E., S.E., MLSE  
 TO: FORT BEND COUNTY ENGINEERING DEPARTMENT  
 301 JACKSON STREET  
 4TH FLOOR  
 RICHMOND, TX U.S. 77469  
 PROJECT: Various Roads in City of Arcola



Raba Kistner Consultants Inc.  
 3602 Westchase  
 Houston, Texas 77042  
 (713) 996-8990 • (713) 996-8993

PROJECT NO.: AHD19-132-00  
 REPORT NO.: 34 , 2 of 2 (H20-011716)  
 REPORT VERSION: A  
 DATE: 03/16/2020  
 TECHNICIAN: PAUL J ELKINS  
 CERTIFICATION: NICET III SOILS

CONTRACTOR: Angel Brothers  
 SPECIFICATION: HC 433

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO. /DEPTH	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT COMPACTION (%)
165	Near STA: 16+45	1	Top of Pipe	8.7	109.3	96
166	Backfill Over 24" Dia. RCP Storm Line Located Along Manor Ave. North Side R.O.W Between STA: 16+72 and STA: 17+09					
167	Near STA: 16+80	1	Bedding	9.4	110.9	98
168	Near STA: 16+85	1	2nd	9.0	109.1	96
169	Near STA: 16+90	1	Top of Pipe	9.3	110.6	98

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DEN. (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
1	Cement Stabilized Sand-CSS (Proposed Backfill Material)	10.3	113.4	0.1-10.3	95	ASTM D 558 Method B

REFERENCE: Backfill/Utility Lines

TRANS DEPTH: 6"  
 DENSITY COUNT: 2571 TEST MODE: Method A  
 MOISTURE COUNT: 421

FIELD TEST PROCEDURE: ASTM D 6938 GAUGE NO.: 3564

REMARKS: Lift information was provided by the contractor. Mr. Woodford Lusk w/Othon Consulting was verbally notified of field test results.

\* - Indicates noncompliance with specifications.

COPIES TO: Above (1)  
 Invoice (1)  
 Othon, Inc. (1)  
 Binkley Barfield (1)

RABA KISTNER CONSULTANTS, INC.



Updated By: NMG 3/17/2020 12:36:48PM H20-011716

Reviewed By: NMG 3/17/2020 12:36:52PM

Depart Lab: 7:00 a.m. Arrive Site: 8:00 a.m. Lunch: 0.50 Hrs  
 Depart Site: 5:00 p.m. Arrive Lab: 6:00 p.m. Time: 10.50 Hrs

NOTICE: Raba Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from Raba Kistner Consultants, Inc.



Austin • Brownsville • Dallas • Houston • McAllen • Mexico • New Braunfels • Salt Lake City • San Antonio

**FIELD TEST REPORT****Soil/Base Material Nuclear Density Test**

ATTN.: MR. A. IKE AKINWANDE, P.E., S.E., MLSE  
 TO: FORT BEND COUNTY ENGINEERING DEPARTMENT  
 301 JACKSON STREET  
 4TH FLOOR  
 RICHMOND, TX U.S. 77469  
 PROJECT: Various Roads in City of Arcola



Raba Kistner Consultants Inc.  
 3602 Westchase  
 Houston, Texas 77042  
 (713) 996-8990 • (713) 996-8993

PROJECT NO.: AHD19-132-00  
 REPORT NO.: 35, 1 of 2 (H20-011750)  
 REPORT VERSION: A  
 DATE: 03/17/2020  
 TECHNICIAN: PAUL J ELKINS  
 CERTIFICATION: NICET III SOILS

CONTRACTOR: Angel Brothers  
 SPECIFICATION: HC 433

TEST NO.	TEST LOCATION	SOIL TYPE	LIFT NO. /DEPTH	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PERCENT COMPACTION (%)
	<u>Backfill Over 24" Dia. RCP Storm Line Located Along Manor Ave. North Side R.O.W. Between STA. 18+38 and STA. 18+73</u>					
170	Near STA: 18+45	1	Bedding	9.3	111.0	98
171	Near STA: 18+65	1	1st	9.0	109.1	96
172	Near STA: 18+50	1	Top of Pipe	8.6	109.1	96
	<u>Backfill Over 24" Dia. RCP Storm Line Located Along Manor Ave. North Side R.O.W. Between STA. 18+82 and STA. 19+34</u>					
173	Near STA: 19+00	1	Bedding	8.9	110.6	98
174	Near STA: 19+25	1	2nd	8.5	109.5	97

CURVE ID.	SOIL TYPE	OPTIMUM MOISTURE (%)	MAX. DRY DEN. (PCF)	REQUIRED MOISTURE (%)	REQUIRED DENSITY (%)	LAB TEST PROCEDURE
1	Cement Stabilized Sand-CSS (Proposed Backfill Material)	10.3	113.4	0.1-10.3	95	ASTM D 558 Method B

REFERENCE: Backfill/Utility Lines

TRANS DEPTH: \_\_\_\_\_  
 DENSITY COUNT: \_\_\_\_\_  
 TEST MODE: Method A  
 MOISTURE COUNT: \_\_\_\_\_

FIELD TEST PROCEDURE: ASTM D 6938 GAUGE NO.: 3564

REMARKS: LIR information was provided by the contractor. Mr. Woodford Lusk w/Othon Consulting was verbally notified of field test results.

\* - Indicates noncompliance with specifications.

Depart Lab: 7:00 a.m. Arrive Site: 8:00 a.m. Lunch: 0.50 Hrs  
 Depart Site: 4:30 p.m. Arrive Lab: 5:30 p.m. Time: 10.00 Hrs

NOTICE: Raba Kistner Consultants, Inc. considers the data and information contained in this report to be proprietary. This information is intended only for the use of the recipient(s) named herein. Test results presented herein relate only to those items tested. This document and any information contained herein shall not be disclosed and shall not be duplicated or used in whole or in part for any purpose other than to validate test results without written approval from Raba Kistner Consultants, Inc.

**Raba Kistner**  
 SINCE  
 1968

Austin • Brownsville • Dallas • Houston • McAllen • Mexico • New Braunfels • Salt Lake City • San Antonio