

# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

## INVOICE

Page 1 of 3

Invoice Date: 10/20/2015  
Invoice No: 15-10-000194

Client Address: Fort Bend County  
Mr. Wesley Crawford  
County of Fort Bend  
301 Jackson, Suite 400  
Richmond, TX. 77469

Account No.: FBC

Project No: 15-2011

Project Desc.: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2, Paving and  
Drainage Improvements, County of Fort Bend,  
Richmond, Texas

### ===== Invoice Summary by Billing Code =====

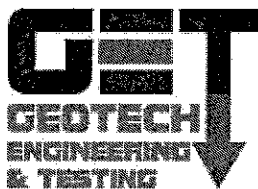
	<u>Unit Rate</u>	<u>Qty</u>	<u>Extension</u>
10700 - Technician	\$65.00	34.00	\$2,210.00
10700-2 - Technician	\$65.00	12.00	\$780.00
10700-2 - Technician - OT	\$97.50	2.91	\$283.73
10700-2 - Technician OT	\$97.50	1.59	\$155.03
10700-2 - Technician, OT	\$97.50	0.75	\$73.13
10800 - Support Personnel (Drafting, Technical Typing)	\$46.00	3.50	\$161.00
10800 - Support Personnel (Drafting, Technical Typing)	\$60.00	0.50	\$30.00
10900 - Project Engineer Review	\$183.00	4.00	\$732.00
11160 - Vehicle ( Pick-up Truck) Charge	\$10.00	41.66	\$416.60
11160 - Vehicle ( Pick-up Truck) Charge	\$55.00	1.00	\$55.00
90100 - Liquid and Plastic Limits (ASTM D 4318)	\$62.00	2.00	\$124.00
90600 - Percent Passing # 200 Sieve (ASTM D 1140)	\$48.00	2.00	\$96.00
92300 - OMD Standad Compaction	\$203.00	2.00	\$406.00
92300 - OMD Standad Compaction, CSS	\$225.00	1.00	\$225.00
92601 - Percent Solids in Lime Slurry	\$37.00	3.00	\$111.00
94100 - Cement Sand Compressive Strength	\$71.00	4.00	\$284.00
95100 - Nuclear Density Equipment Rental	\$10.50	14.75	\$154.88
95100 - Nuclear Density Equipment Rental	\$45.00	1.00	\$45.00
Total for this Invoice:			<u>\$6,342.37</u>

### ===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
33	09/22/2015	6.00	10700 - Technician	hour	\$65.00	\$390.00
33	09/22/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$60.00	\$30.00

REMIT TO: DAE & ASSOCIATES, LTD  
dba GEOTECH ENGINEERING AND TESTING  
800 VICTORIA DRIVE  
Houston, Texas 77022-2908

\*Invoice is due on presentation



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

## INVOICE

Invoice Date: 10/20/2015  
Invoice No: 15-10-000194

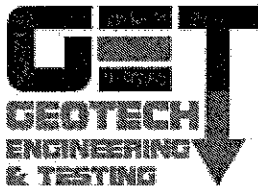
Page 2 of 3

### ===== Invoice Detail by Report =====

Report No.	Sampled	Qty	Billing Code	Unit Type	Unit Rate	Extension
33	09/22/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
33	09/22/2015	6.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$60.00
33	09/22/2015	6.00	95100 - Nuclear Density Equipment Rental	per hour	\$10.50	\$63.00
Report Number 33 for a Subtotal of:						\$634.50
34	09/23/2015	8.00	10700 - Technician	hour	\$65.00	\$520.00
34	09/23/2015	0.75	10700-2 - Technician, OT	hour	\$97.50	\$73.13
34	09/23/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
34	09/23/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
34	09/23/2015	8.75	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$87.50
34	09/23/2015	1.00	92300 - OMD Standad Compaction, CSS	each	\$225.00	\$225.00
34	09/23/2015	4.00	94100 - Cement Sand Compressive Strength	each	\$71.00	\$284.00
34	09/23/2015	8.75	95100 - Nuclear Density Equipment Rental	hour	\$10.50	\$91.88
Report Number 34 for a Subtotal of:						\$1,396.01
36	10/01/2015	4.00	10700-2 - Technician	hour	\$65.00	\$260.00
36	10/01/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
36	10/01/2015	0.50	10900 - Project Engineer Review	each	\$183.00	\$91.50
36	10/01/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
Report Number 36 for a Subtotal of:						\$414.50
36A	10/14/2015	4.00	10700-2 - Technician	hour	\$65.00	\$260.00
36A	10/14/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
36A	10/14/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
36A	10/14/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
36A	10/14/2015	2.00	92601 - Percent Solids in Lime Slurry	each	\$37.00	\$74.00
Report Number 36A for a Subtotal of:						\$488.50
36B	10/15/2015	4.00	10700-2 - Technician	hour	\$65.00	\$260.00
36B	10/15/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
36B	10/15/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
36B	10/15/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
Report Number 36B for a Subtotal of:						\$414.50

REMIT TO: DAE & ASSOCIATES, LTD  
dba GEOTECH ENGINEERING AND TESTING  
800 VICTORIA DRIVE  
Houston, Texas 77022-2908

\*Invoice is due on presentation



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

## INVOICE

Page 3 of 3

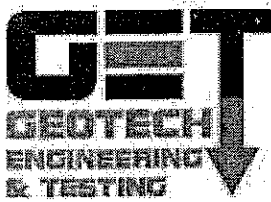
Invoice Date: 10/20/2015  
Invoice No: 15-10-000194

### ===== Invoice Detail by Report =====

Report No.	Sampled	Qty	Billing Code	Unit Type	Unit Rate	Extension
37	10/16/2015	4.00	10700 - Technician	hour	\$65.00	\$260.00
37	10/16/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
37	10/16/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
37	10/16/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
37	10/16/2015	1.00	92601 - Percent Solids in Lime Slurry	each	\$37.00	\$37.00
Report Number 37 for a Subtotal of:						\$451.50
38	10/19/2015	8.00	10700 - Technician	hour	\$65.00	\$520.00
38	10/19/2015	2.91	10700-2 - Technician - OT	hour	\$97.50	\$283.73
38	10/19/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
38	10/19/2015	0.50	10900 - Project Engineer Review	each	\$183.00	\$91.50
38	10/19/2015	10.91	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$109.10
38	10/19/2015	1.00	90100 - Liquid and Plastic Limits (ASTM D 4318)	each	\$62.00	\$62.00
38	10/19/2015	1.00	90600 - Percent Passing # 200 Sieve (ASTM D 1140)	each	\$48.00	\$48.00
38	10/19/2015	1.00	92300 - OMD Standad Compaction	each	\$203.00	\$203.00
Report Number 38 for a Subtotal of:						\$1,340.33
38A	10/20/2015	8.00	10700 - Technician	hour	\$65.00	\$520.00
38A	10/20/2015	1.59	10700-2 - Technician OT	hour	\$97.50	\$155.03
38A	10/20/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
38A	10/20/2015	0.50	10900 - Project Engineer Review	each	\$183.00	\$91.50
38A	10/20/2015	1.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$55.00	\$55.00
38A	10/20/2015	1.00	90100 - Liquid and Plastic Limits (ASTM D 4318)	each	\$62.00	\$62.00
38A	10/20/2015	1.00	90600 - Percent Passing # 200 Sieve (ASTM D 1140)	each	\$48.00	\$48.00
38A	10/20/2015	1.00	92300 - OMD Standad Compaction	each	\$203.00	\$203.00
38A	10/20/2015	1.00	95100 - Nuclear Density Equipment Rental	per trip	\$45.00	\$45.00
Report Number 38A for a Subtotal of:						\$1,202.53
Total for this Invoice:						\$6,342.37

REMIT TO: DAE & ASSOCIATES, LTD  
dba GEOTECH ENGINEERING AND TESTING  
800 VICTORIA DRIVE  
Houston, Texas 77022-2908

\*Invoice is due on presentation



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

## INVOICE

Page 1 of 3

Invoice Date: 10/20/2015  
Invoice No: 15-10-000128

Client Address: Schaumburg & Polk, Inc  
Mark Dessens, Engineering Manager  
11767 Katy Freeway  
Suite 900  
Houston, TX. 77079

Account No.: Schaumburg

Project No: 15-2011

Project Desc.: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2, Paving and  
Drainage Improvements, County of Fort Bend,  
Richmond, Texas

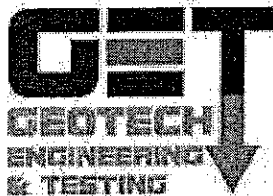
### ===== Invoice Summary by Billing Code =====

	<u>Unit Rate</u>	<u>Qty</u>	<u>Extension</u>
10700 - Technician	\$65.00	34.00	\$2,210.00
10700-2 - Technician	\$65.00	12.00	\$780.00
10700-2 - Technician - OT	\$97.50	2.91	\$283.73
10700-2 - Technician OT	\$97.50	1.59	\$155.03
10700-2 - Technician, OT	\$97.50	0.75	\$73.13
10800 - Support Personnel (Drafting, Technical Typing)	\$46.00	3.50	\$161.00
10800 - Support Personnel (Drafting, Technical Typing)	\$60.00	0.50	\$30.00
10900 - Project Engineer Review	\$183.00	4.00	\$732.00
11160 - Vehicle ( Pick-up Truck) Charge	\$10.00	41.66	\$416.60
11160 - Vehicle ( Pick-up Truck) Charge	\$55.00	1.00	\$55.00
90100 - Liquid and Plastic Limits (ASTM D 4318)	\$62.00	2.00	\$124.00
90600 - Percent Passing # 200 Sieve (ASTM D 1140)	\$48.00	2.00	\$96.00
92300 - OMD Standad Compaction	\$203.00	2.00	\$406.00
92300 - OMD Standad Compaction, CSS	\$225.00	1.00	\$225.00
92601 - Percent Solids in Lime Slurry	\$37.00	3.00	\$111.00
94100 - Cement Sand Compressive Strength	\$71.00	4.00	\$284.00
95100 - Nuclear Density Equipment Rental	\$10.50	14.75	\$154.88
95100 - Nuclear Density Equipment Rental	\$45.00	1.00	\$45.00
Total for this Invoice:			<u>\$6,342.37</u>

### ===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
33	09/22/2015	6.00	10700 - Technician	hour	\$65.00	\$390.00
33	09/22/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$60.00	\$30.00

REMIT TO:



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

## INVOICE

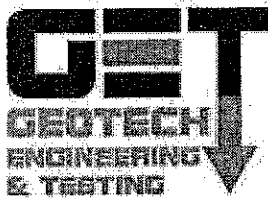
Invoice Date: 10/20/2015  
Invoice No: 15-10-000128

Page 2 of 3

### ===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
33	09/22/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
33	09/22/2015	6.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$60.00
33	09/22/2015	6.00	95100 - Nuclear Density Equipment Rental	per hour	\$10.50	\$63.00
Report Number 33 for a Subtotal of:						\$634.50
34	09/23/2015	8.00	10700 - Technician	hour	\$65.00	\$520.00
34	09/23/2015	0.75	10700-2 - Technician, OT	hour	\$97.50	\$73.13
34	09/23/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
34	09/23/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
34	09/23/2015	8.75	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$87.50
34	09/23/2015	1.00	92300 - OMD Standad Compaction, CSS	each	\$225.00	\$225.00
34	09/23/2015	4.00	94100 - Cement Sand Compressive Strength	each	\$71.00	\$284.00
34	09/23/2015	8.75	95100 - Nuclear Density Equipment Rental	hour	\$10.50	\$91.88
Report Number 34 for a Subtotal of:						\$1,396.01
36	10/01/2015	4.00	10700-2 - Technician	hour	\$65.00	\$260.00
36	10/01/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
36	10/01/2015	0.50	10900 - Project Engineer Review	each	\$183.00	\$91.50
36	10/01/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
Report Number 36 for a Subtotal of:						\$414.50
36A	10/14/2015	4.00	10700-2 - Technician	hour	\$65.00	\$260.00
36A	10/14/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
36A	10/14/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
36A	10/14/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
36A	10/14/2015	2.00	92601 - Percent Solids in Lime Slurry	each	\$37.00	\$74.00
Report Number 36A for a Subtotal of:						\$488.50
36B	10/15/2015	4.00	10700-2 - Technician	hour	\$65.00	\$260.00
36B	10/15/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
36B	10/15/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
36B	10/15/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
Report Number 36B for a Subtotal of:						\$414.50

REMIT TO:



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

## INVOICE

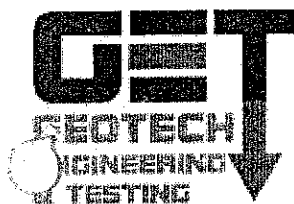
Page 3 of 3

Invoice Date: 10/20/2015  
Invoice No: 15-10-000128

### ===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
37	10/16/2015	4.00	10700 - Technician	hour	\$65.00	\$260.00
37	10/16/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
37	10/16/2015	0.50	10900 - Project Engineer Review	hour	\$183.00	\$91.50
37	10/16/2015	4.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$40.00
37	10/16/2015	1.00	92601 - Percent Solids in Lime Slurry	each	\$37.00	\$37.00
Report Number 37 for a Subtotal of:						\$451.50
38	10/19/2015	8.00	10700 - Technician	hour	\$65.00	\$520.00
38	10/19/2015	2.91	10700-2 - Technician - OT	hour	\$97.50	\$283.73
38	10/19/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
38	10/19/2015	0.50	10900 - Project Engineer Review	each	\$183.00	\$91.50
38	10/19/2015	10.91	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$10.00	\$109.10
38	10/19/2015	1.00	90100 - Liquid and Plastic Limits (ASTM D 4318)	each	\$62.00	\$62.00
38	10/19/2015	1.00	90600 - Percent Passing # 200 Sieve (ASTM D 1140)	each	\$48.00	\$48.00
38	10/19/2015	1.00	92300 - OMD Standard Compaction	each	\$203.00	\$203.00
Report Number 38 for a Subtotal of:						\$1,340.33
38A	10/20/2015	8.00	10700 - Technician	hour	\$65.00	\$520.00
38A	10/20/2015	1.59	10700-2 - Technician OT	hour	\$97.50	\$155.03
38A	10/20/2015	0.50	10800 - Support Personnel (Drafting, Technical Typing)	hour	\$46.00	\$23.00
38A	10/20/2015	0.50	10900 - Project Engineer Review	each	\$183.00	\$91.50
38A	10/20/2015	1.00	11160 - Vehicle ( Pick-up Truck) Charge	hour	\$55.00	\$55.00
38A	10/20/2015	1.00	90100 - Liquid and Plastic Limits (ASTM D 4318)	each	\$62.00	\$62.00
38A	10/20/2015	1.00	90600 - Percent Passing # 200 Sieve (ASTM D 1140)	each	\$48.00	\$48.00
38A	10/20/2015	1.00	92300 - OMD Standard Compaction	each	\$203.00	\$203.00
38A	10/20/2015	1.00	95100 - Nuclear Density Equipment Rental	per trip	\$45.00	\$45.00
Report Number 38A for a Subtotal of:						\$1,202.53
Total for this Invoice:						\$6,342.37

REMIT TO:



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 347

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 09/22/2015  
Report No: 33 Version 1  
Test Date: 09/22/2015  
Technician: Darrell Hurd

## Subject: Compaction Testing

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Compaction testing - Compaction tests were performed on Golfview Dr. A total of four (4) tests were performed.

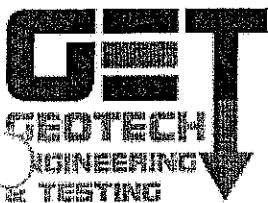
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: Compaction Testing

Work Order: 347

Project No: 15-2011

Page 1 of 2

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 09/22/2015  
Report No: 33 Version 1  
Test Date: 09/22/2015  
Technician: Hurd, Darrell

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
800		11.5	104.0	

## Specification

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	95	9.5	13.5

Location: Gulfview Dr 36" RCP

Test No.	Lift	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density
1	Bed	Cross Sta 1+39 WB	113.0	11.1	101.7	800	1	97.8

Comments: Pass

Location: Gulfview Dr 34" RCP

Test No.	Lift	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density
2	Bed	Cross Sta 4+39 WB	112.0	11.9	100.1	800	1	96.3

Comments: Pass

Gauge Type: 5001

Gauge No. 4219

Daily Standard Counts: 09/22/2015

MS: 2830

DS: 413

Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Laboratory

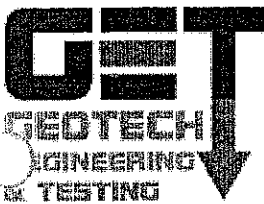
Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frue, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM





# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: Compaction Testing

Work Order: 347

Project No: 15-2011

Page 2 of 2

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 09/22/2015  
Report No: 33 Version 1  
Test Date: 09/22/2015  
Technician: Hurd, Darrell

Location: Gulfview Dr 36" RCP

Test No.	Lift	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density
3	1	Cross Sta 1+39 WB	113.6	11.4	102.0	800	1	98.1
Comments: Pass								

Location: Gulfview Dr 34" RCP

Test No.	Lift	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density
4	1	Cross Sta 4+39 WB	113.1	11.3	101.6	800	1	97.7
Comments: Pass								

Gauge Type: 5001

Gauge No. 4219

Daily Standard Counts: 09/22/2015

MS: 2830

DS: 413

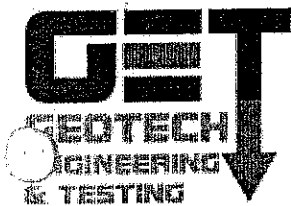
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 560

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 12/03/2015  
Report No: 34 Version 2  
Test Date: 09/23/2015  
Technician: Darrell Hurd

## Subject: Compaction Testing

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Compaction Testing - Compaction tests were performed on Golfview Dr. Sta 5+50. A total of 2 tests were performed.
- Sample pick up - A sample of CSS was picked up for laboratory testing to evaluate the Proctor values and compressive strength.

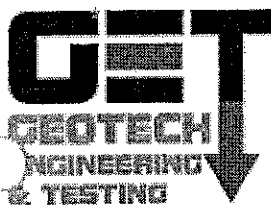
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Kelly Kaluza & Associates Attn: Mr. Troy Burditt  
1-cc Fort Bend County Attn: Mr. Wesley Crawford  
1-cc City of Richmond Attn: Mr. Jim Whitehead  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: **Compaction Testing**

Work Order: **560**

Project No: **15-2011**

Page 1 of 1

**Client:** Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

**Project:** Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

**Engineer:** Kelly Kaluza & Associates

**Report Date:** 12/03/2015  
**Report No:** 34 Version 2  
**Test Date:** 09/23/2015  
**Technician:** Hurd, Darrell

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
800		11.5	104.0	CSS

## Specification

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	95	9.5	13.5

Location: Golfview Drive

Test No.	Lift	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density
1	Bed	18" RCP Sta 5+50	118.9	13.8	104.5	800	1	100.5
Comments: Pass								
2	1	18" RCP Sta 5+50	118.0	13.6	103.9	800	1	99.9
Comments: Pass								

Gauge Type: 5001

Gauge No. 4219

Daily Standard Counts: 09/23/2015

MS: 2867

DS: 433

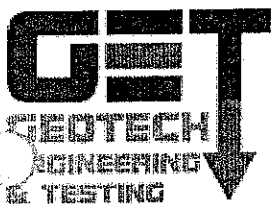
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-ec Kelly Kaluza & Associates Attn: Mr. Troy Burditt  
1-ec Fort Bend County Attn: Mr. Wesley Crawford  
1-ec City of Richmond Attn: Mr. Jim Whitehead  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

**Report On: General Report**

**Work Order: 708**

**Project No: 15-2011**

**Page 1 of 1**

**Client:** Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

**Project:** Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

**Engineer:** Kelly Kaluza & Associates

**Report Date:** 10/01/2015  
**Report No:** 36 Version 1  
**Test Date:** 10/01/2015  
**Technician:** Mehran Kordavi

## Subject: Proof roll

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Other testing/observation - Proofrolling was conducted on left side of pavement on Golfview Drive from Station 12+00 to 18+31. A loaded dump truck was used for the proofroll. Generally, the area proofrolled appeared stable and was approved with the exception of 3'x35' area located at Sta 13+00 that was pumping. It was recommended that this area be fixed to obtain a stable platform.

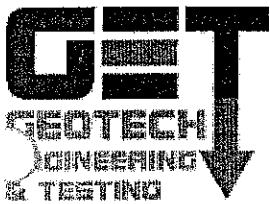
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 1298

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 10/14/2015  
Report No: 36A Version 1  
Test Date: 10/14/2015  
Technician: Jeff Adelagun

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Sample pick up - A sample of lime slurry was picked up for laboratory testing to evaluate the percent solids of the slurry. The samples obtained were:

Sample No:	Location:	Description:
1211	Sta 20+80	Lime Slurry
1212	Sta 22+70	Lime Slurry

Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop:  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frue, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING

ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering (Firm PE # F-1183)  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel.: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotecheng.com.

## LIME SLURRY PERCENT SOLIDS REPORT

**Project:** Golfview Phase 2 Road Const.

**Date:** 10/14/2015

**Job No.:** 15-2011

**Client:** Fort Bend County

**Report No.:** 36A

**Attention:** Mr. Mark Dressen, P.E.

**Technician:** HS

**Weather:** Fair

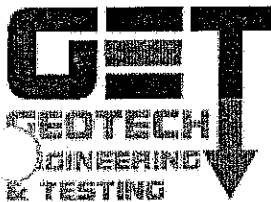
**General Location:** Harrisburg Blvd

Sample No.	Location	Tare	Tare(gm)	Wet Weight	Dry Weight	% Solid
1211	Golfview Blvd Sta 20+80		115.4	728.8	377.5	39.8
1212	Golfview Blvd Sta 22+70		111.2	711.1	376.4	40.1

Note: The sample tested met the minimum 35% requirement for Type B lime slurry

GEOTECH ENGINEERING AND TESTING

Andrie Fruel, P.E.  
Engineering Manager



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 1302

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 10/15/2015  
Report No: 36B Version 1  
Test Date: 10/15/2015  
Technician: Jeff Adelagun

## Subject: Proofroll Observation

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Proofroll Observation:

Using a loaded dump truck, a proofroll was observed along Golfview Drive from Sta. 7+53 to 11+40. Field observations revealed that the area proofrolled is stable and was deemed acceptable.

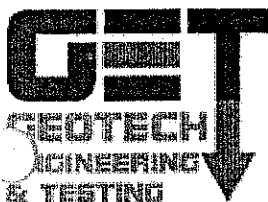
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 1095

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 10/16/2015  
Report No: 37 Version 1  
Test Date: 10/16/2015  
Technician: Bayat, Mansour

## Subject: Sample Pick Up

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Sample pick up - A sample of lime slurry was picked up for laboratory testing to evaluate the % solid.

Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop:  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Fruel, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM





# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 1141

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Engineer: Kelly Kaluza & Associates

Report Date: 10/19/2015  
Report No: 38 Version 1  
Test Date: 10/19/2015  
Technician: Darrell Hurd

## Subject: Sample pick up / Gradation

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Sample pick up - A sample of soil with lime was picked up for laboratory testing to evaluate Proctor values. The sample obtained was:

Sample No:	Location:	Description:
1227	Golfview Drive Sta: 23+20	Brown/Tan SC w/ lime

- Other testing/observation - Field gradation was performed for lime stabilized subgrade soils.

Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop:  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES. NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



## LIME STABILIZED SUBGRADE FIELD SIEVE GRADATION ANALYSIS REPORT

**Project:** Proposed Golfview Drive-Phase 2  
Richmond, Texas

**Date:** 10/19/2015

**Job No.:** 15-2011

**Client:** County of Fort Bend c/o Schaumburg & Polk, Inc.  
11767 Katy Freeway, Suite 900  
Houston, TX. 77079

**Report No.:** Field Grad

**Page:** 1 of 1

**Attention:** Mr. Mark Dessens, P.E.

**Technician:** DH

**Weather:** Fair

**General Locations:** Golfview Blvd

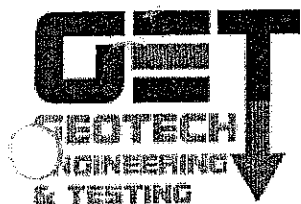
Locations	% Passing 1 3/4"	% Passing 3/4"	% Passing No. 4
Sta. 23+20	100	88	71

**Requirements:** 100% passing 1 3/4 sieve  
85% passing 3/4" sieve  
60% passing #4 sieve

**Result:** pass

GEOTECH ENGINEERING AND TESTING

Andrie Fruel, P.E.  
Project Manager



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: General Report

Work Order: 1192

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Report Date: 10/20/2015  
Report No: 38A Version 1  
Test Date: 10/20/2015  
Technician: Hurd, Darrell

## Subject: Compaction Testing / Sample Pick Up

A GET Technician was dispatched to the above referenced project site to conduct the following:

- Compaction testing - Compaction tests were performed on Golfview Dr Station 23+50. One test was performed.
- Sample pick up - A sample of soil mixed with lime was picked up for laboratory testing to evaluate the Proctor values. The sample obtained was:

Sample No:	Location:	Description:
1235	Station 23+20	Brown Tan Gray SC w/Lime

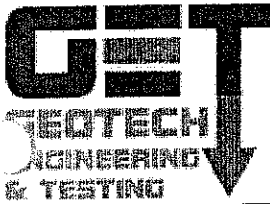
Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop:  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

  
Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM



# GEOTECH ENGINEERING and TESTING



ACCREDITED  
CERTIFICATE #0075-01  
#0075-02

Geotechnical • Environmental • Construction Materials • Forensic Engineering • Firm PE #F-1183  
800 Victoria Drive • Houston, Texas 77022-2908 • Tel: 713-699-4000 • Fax: 713-699-9200 • Website: www.geotech.eng

Report On: Compaction Testing

Work Order: 1192

Project No: 15-2011

Page 1 of 1

Client: Schaumburg & Polk, Inc  
Mark Dessens Mr.  
11767 Katy Freeway  
Suite 900  
Houston, TX 77079

Project: Golfview Drive (Mobility Project No. 709)  
Regional Drainage Facility, Phase 2,  
Paving and Drainage Improvements,  
County of Fort Bend, Richmond, Texas

Report Date: 10/20/2015  
Report No: 38A Version 1  
Test Date: 10/20/2015  
Technician: Hurd, Darrell

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
1235	10/22/2015	14.5	115.0	Brown Tan Sandy Clay with Lime

## Specification

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	95	14.5	115.0

Location: Golfview Phase 2

Test No.	Lift	Location	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density
1	Sub	Station 23+50	130.6	15.1	113.5	1235	1	98.7

Comments: Pass

Gauge Type: 5001

Gauge No. 4219

Daily Standard Counts: 10/20/2015 MS: 2827 DS: 441

Orig: Schaumburg & Polk, Inc (Houston, TX) Attn: Mark Dessens Mr. (1-cc cop)  
1-cc Laboratory

Respectfully Submitted,  
Geotech Engineering & Testing

Andrie Frueh, P.E., Project Manager

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

REPORT CREATED BY ElmTree SYSTEM