

letter of transmittal



KANSAS CITY
TESTING & ENGINEERING, LLC

DATE 3/27/18 JOB NO. R20-17-261

1308 Adams Street
Kansas City, KS 66103
Ph (913) 321-8100
Fax (913) 321-8181

ATTN: JAKE LOVELESS

TO: GRIFFIN RILEY INVESTMENTS LLC
120 SE 30TH ST
LEE'S SUMMIT MO 64082

RE: RESIDENCES @ ECHELON

WE ARE SENDING YOU

☒ ATTACHED ☐ UNDER SEPARATE COVER ☐ THE FOLLOWING ITEMS:

<input type="checkbox"/> AGGREGATE REPORT	<input type="checkbox"/> CONCRETE REPORT	<input type="checkbox"/> PROPOSAL
<input type="checkbox"/> ASPHALT REPORT	<input type="checkbox"/> FOUNDATION REPORT	<input type="checkbox"/> SOILS REPORT
<input checked="" type="checkbox"/> AS NOTED	<input type="checkbox"/> INVOICE	<input type="checkbox"/> OTHER

COPIES	DATE	NO.	DESCRIPTION
1			SITE OBSERVATION PERFORMED 3/14 - 3/15

THESE ARE TRANSMITTED AS CHECKED BELOW:

<input type="checkbox"/> FOR CHECKING	<input type="checkbox"/> FOR REVIEW / COMMENT	<input checked="" type="checkbox"/> FOR FILES & INFO.
<input type="checkbox"/> FOR YOUR USE ON JOB	<input type="checkbox"/> APPROVED AS NOTED	
<input type="checkbox"/> AS REQUESTED	<input type="checkbox"/> APPROVED AS SUBMITTED	

REMARKS:

COPY TO:

jake@griffinriley.com
tjwatreas@lukedrailly.com
cbeverlin@bdc-engrs.com
thauschild@nspjarch.com
mschlicht@es-kc.com
matthew.munger@cityofLS.net
srunyan@lukedrailly.com

BY:

JIM BYRNES
SR PROJ MANAGER

REPORT OF IN-PLACE DENSITY

PAGE 1 OF 2

CLIENT: GRIFFIN RILEY INVESTMENTS, LLC
ATTN: JAKE LOVELESS
120 SE 30TH STREET
LEE'S SUMMIT MO 64082

PROJECT NO.: R20-17-261
REPORT NO.: K22595
DATE OF SERVICE: 03/14/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 03/19/2018

PROJECT: THE RESIDENCES @ ECHELON
MO 291 & 50
LEE'S SUMMIT, MO

SERVICES: Perform in-place density and moisture content tests to determine the degree of field compaction.

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

GAUGE: Troxler 3440

GAUGE SERIAL NO.: 15277

	DENSITY	MOISTURE
METHOD OF TEST:	ASTM D6938	ASTM D3017
SPECIFICATION:	95% Min	-1 to +3% of opt

STANDARD COUNTS

MOISTURE - CURRENT:	714	PREVIOUS:	716
DENSITY - CURRENT:	1494	PREVIOUS:	1487

TEST MODE: Direct Transmission

PROBE DEPTH: 8

M/D #	TEST OF	MATERIALS	MOISTURE/DENSITY RELATIONS		REFERENCE REPORT
			OPTIMUM MOISTURE %	MAXIMUM DENSITY pcf	
1.	STANDARD PROCTOR	REDDISH BROWN SILTY CLAY	23.1	96.7	K21466
2.	STANDARD PROCTOR	BROWN-GRAY SILTY CLAY	22.1	99.9	K21467

REPORT OF TESTS

TEST NO	LOCATION	PROBE DEPTH	LIFT/ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DENSITY (pcf)		MAXIMUM DENSITY (pcf)	DENSITY (% max)
							WET	DRY		
1.	STORM SEWER: 20' N of inlet 1-5	8	2' bg	1	25.9	23.1	115.7	91.9	96.7	95
2.	30' N of inlet 5-1	8	on grade	2	24.1	22.1	119.9	96.6	99.9	97
3.	40' E of inlet 1-5	8	2' bg	2	24.6	22.1	120.5	96.7	99.9	97
4.	40' E of inlet 1-5	8	on grade	2	25.0	22.1	121.1	96.9	99.9	97
5.	50' S of inlet 4-2	8	2' bg	2	24.5	22.1	120.8	97.0	99.9	97
6.	55' S of inlet 4-2	8	on grade	2	23.3	22.1	120.3	97.6	99.9	98
7.	20' N of inlet 4-1	8	2' bg	1	25.9	23.1	116.0	92.1	96.7	95

Report of Tests continued on page 2

PROJECT NO.: R20-17-261 GRIFFIN RILEY INVESTMENTS, LLC

DATE OF SERVICE: 03/14/2018

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE	OPTIMUM MOISTURE	FIELD DENSITY		MAXIMUM DENSITY	DENSITY
					(%)	(%)	WET	DRY	(pcf)	(% max)
8.	40' N of inlet 4-1	8	on grade	1	23.1	23.1	113.4	92.1	96.7	95

Test results on this report meet project specifications as noted above.

ADDITIONAL COMMENTS:

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

Report Distribution:

(1) cbeverlin@bdc-engrs.com
(1) jake@griffinriley.com
(1) matthew.munger@cityofls.net
(1) mschlicht@es-kc.com
(1) srnyan@lukedrailey.com
(1) thauschild@nspjarch.com
(1) tjwatreas@lukedrailey.com

KANSAS CITY TESTING & ENGINEERING,


JIM BYRNES, R.G.
PROJECT MANAGER

Our letters and reports are for the exclusive use of the client to whom they are addressed and shall not be reproduced except in full without the approval of the testing laboratory. The use of our name must receive our written approval. Our letters and reports apply only to the sample tested and/or inspected, and are not indicative of the quantities of apparently identical or similar products.

REPORT OF IN-PLACE DENSITY

PAGE 1 OF 2

CLIENT: GRIFFIN RILEY INVESTMENTS, LLC
ATTN: JAKE LOVELESS
120 SE 30TH STREET
LEE'S SUMMIT MO 64082

PROJECT NO.: R20-17-261
REPORT NO.: K22638
DATE OF SERVICE: 03/15/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 03/19/2018

PROJECT: THE RESIDENCES @ ECHELON
MO 291 & 50
LEE'S SUMMIT, MO

SERVICES: Perform in-place density and moisture content tests to determine the degree of field compaction.

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

GAUGE: Troxler 3440

GAUGE SERIAL NO.: 15277

	DENSITY	MOISTURE
METHOD OF TEST:	ASTM D6938	ASTM D3017
SPECIFICATION:	95% Min	-1 to +3% of Opt

STANDARD COUNTS		PREVIOUS:
MOISTURE - CURRENT:	714	716
DENSITY - CURRENT:	1494	1487
TEST MODE: Direct Transmission		
PROBE DEPTH: 8		

M/D #	TEST OF	MATERIALS	MOISTURE/DENSITY RELATIONS		REFERENCE REPORT
			OPTIMUM MOISTURE %	MAXIMUM DENSITY pcf	
1.	STANDARD PROCTOR	GRAY SILTY CLAY	21.0	100.4	K21465
2.	STANDARD PROCTOR	REDDISH BROWN SILTY CLAY	23.1	96.7	K21466

REPORT OF TESTS

TEST NO	LOCATION	PROBE DEPTH	LIFT/ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DENSITY (pcf)		MAXIMUM DENSITY (pcf)	DENSITY (% max)
							WET	DRY		
1.	STORM SEWER: 35' S of inlet 6-1	8	1.5' bg	1	20.2	21.0	116.5	96.9	100.4	97
2.	25' S of inlet 6-1	8	on grade	1	24.9 *	21.0	120.9	96.8	100.4	96

An asterisk (*) appears next to test results which do NOT meet the project specifications as noted on page 1.

ADDITIONAL COMMENTS:

The contractor placed 4000 psi plain concrete (3500 psi plain required) for the building footings for building #4 from A.A-B.3 west to A.A-B.1 as well as the stoop footings from A.D to A.C on the east and west side of the building. The footing sizes and soil bearing capacity as well as reinforcing steel and concrete were in substantial compliance with the plans available for our review at the site. One set of compressive strength test specimens was cast from a

Report of Tests continued on page 2

REPORT OF TESTS (continued)

REPORT NO.: K22638

PAGE 2 OF 2

PROJECT NO.: R20-17-261 GRIFFIN RILEY INVESTMENTS, LLC

DATE OF SERVICE: 03/15/2018

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE	OPTIMUM MOISTURE	FIELD DENSITY		MAXIMUM DENSITY	DENSITY
					(%)	(%)	(pcf) WET	(pcf) DRY	(pcf)	(% max)
	sample of the concrete placed.									

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

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