letter of transmittal

KANSAS CITY TESTING & ENGINEERING, LLC

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

DATE 4/04/18 JOB NO. R20-17-261

ATTN: JAKE LOVELESS

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

RE: RESIDENCES @ ECHELON

WE ARE SENDING YOU

X ATTACHED ____ UNDER SEPARATE COVER _____ THE FOLLOWING ITEMS:

___ AGGREGATE REPORT	___ CONCRETE REPORT	___ PROPOSAL
___ ASPHALT REPORT	___ FOUNDATION REPORT	___ SOILS REPORT
X AS NOTED	___ INVOICE	___ OTHER

COPIES	DATE	NO.	DESCRIPTION
1			SITE OBSERVATION PERFORMED 3/22 - 3/30

THESE ARE TRANSMITTED AS CHECKED BELOW:

___ FOR CHECKING	___ FOR REVIEW / COMMENT	X FOR FILES & INFO.
___ FOR YOUR USE ON JOB	___ APPROVED AS NOTED	
___ AS REQUESTED	___ APPROVED AS SUBMITTED	

REMARKS:

COPY TO:
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BY: _____
JIM BYRNES
SR PROJ MANAGER

KC TE KANSAS CITY TESTING & ENGINEERING, LLC

Kansas City Testing & Engineering, LLC
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REPORT OF IN-PLACE DENSITY

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

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

PROJECT NO.: R20-17-261
REPORT NO.: K22691
DATE OF SERVICE: 03/22/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 03/27/2018

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

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

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

GAUGE: Troxler 3440
GAUGE SERIAL NO.: 15277
STANDARD COUNTS
MOISTURE - CURRENT: 712 PREVIOUS: 718
DENSITY - CURRENT: 1482 PREVIOUS: 1484
TEST MODE: Direct Transmission
PROBE DEPTH: 8

M/D #	TEST OF	MATERIALS	MOISTURE/DENSITY RELATIONS: OPTIMUM MOISTURE %	MOISTURE/DENSITY RELATIONS: MAXIMUM DENSITY pcf	REFERENCE REPORT
1.	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) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)
1.	STORM SEWER: 40' NW of structure 8-4	8	3' bg	1	23.0	22.1	122.8	99.8	99.9	100
2.	45' NW of structure 8-4	8	1' bg	1	23.8	22.1	122.3	98.8	99.9	99
3.	35' NW of structure 8-4	8	on grade	1	23.0	22.1	120.2	97.7	99.9	98
4.	25' SE of structure 8-4	8	2' bg	1	23.3	22.1	122.2	99.1	99.9	99
5.	40' S of structure 8-6	8	1' bg	1	24.9	22.1	122.2	97.8	99.9	98

Report of Tests continued on page 2

REPORT OF TESTS (continued)

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

DATE OF SERVICE: 03/22/2018

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DENSITY (pcf) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)

Test results on this report meet project specifications as noted on page 1.

ADDITIONAL COMMENTS:

The contractor placed 4000 psi plain concrete (3500 psi plain required) for the exterior wall footings for building #5. The footing size and soil bearing capacity, as well as the placement of reinforcing steel and concrete, was in substantial compliance with the on-site plans and specifications. One set of compressive strength test specimens was cast from a sample of the concrete placed.

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

Report Distribution:

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KANSAS CITY TESTING & ENGINEERING,

JIM BYRNES, R.G.
PROJECT MANAGER

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REPORT OF IN-PLACE DENSITY

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

PROJECT: THE RESIDENCES @ ECHELON
MO 291 & 150
LEE'S SUMMIT, MO

PROJECT NO.: R20-17-261
REPORT NO.: K22740
DATE OF SERVICE: 03/23/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 03/27/2018

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

PROJECT DATA

CONTRACTOR: LUKE DRAILY CONST

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

GAUGE: Troxler 3440
GAUGE SERIAL NO.: 15277
STANDARD COUNTS
MOISTURE - CURRENT: 712 PREVIOUS: 718
DENSITY - CURRENT: 1482 PREVIOUS: 1484
TEST MODE: Direct Transmission
PROBE DEPTH: 8

M/D #	TEST OF	MATERIALS	MOISTURE/DENSITY RELATIONS: OPTIMUM MOISTURE %	MOISTURE/DENSITY RELATIONS: MAXIMUM DENSITY pcf	REFERENCE REPORT
1.	STANDARD PROCTOR	BROWN-GRAY SILTY CLAY	22.1	99.9	K21467
2.	STANDARD PROCTOR	YELLOWISH BROWN SILTY CLAY	21.1	101.4	K21470

REPORT OF TESTS

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DENSITY (pcf) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)
1.	STORM SEWER: 40' E of structure 15-1	8	4' bg	1	23.0	22.1	119.3	97.0	99.9	97
2.	20' E of structure 15-1	8	3' bg	2	22.3	21.1	124.5	101.8	101.4	100
3.	30' E of structure 15-1	8	2' bg	1	25.0	22.1	120.8	96.6	99.9	97
4.	40' E of structure 15-1	8	on grade	1	25.1	22.1	123.3	98.6	99.9	99

Test results on this report meet project specifications as noted on page 1.

Report of Tests continued on page 2

REPORT OF TESTS (continued)

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

DATE OF SERVICE: 03/23/2018

TEST NO	LOCATION	PROBE DEPTH	LIFT/ ELEV	M/D NO	FIELD MOISTURE (%)	OPTIMUM MOISTURE (%)	FIELD DENSITY (pcf) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)

ADDITIONAL COMMENTS:

The contractor placed 4000 psi plain concrete (3500 psi plain required) for the interior wall thickened slabs in the west half of building #4. The footing size and soil bearing capacity, as well as the placement of reinforcing steel and concrete, was in substantial compliance with the on-site plans and specifications. One set of compressive strength test specimens was cast from a sample of the concrete placed.

Technician: YVONNE BEATY, ENGINEERING TECHNICIAN

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SITE OBSERVATION

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

PROJECT: THE RESIDENCES @ ECHELON
MO 291 & 150
LEE'S SUMMIT, MO

SERVICES:

PROJECT NO.: R20-17-261
REPORT NO.: K22812
DATE OF SERVICE: 03/30/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 04/03/2018

Approximately 16 cubic yards of concrete was placed for S1 type footings on building 4 at lines AB, AC, AE, AJ, AP and AQ. The reinforcing steel was placed in substantial compliance with the plans available for our review on site. One set of compressive strength test specimens was cast from a sample of the concrete placed.

Technician: ERIC HOWARD, CME TECHNICIAN III

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