letter of transmittal

KANSAS CITY TESTING & ENGINEERING, LLC

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

DATE 2/12/18 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 1/31 - 2/09

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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tjwatreas@lukedraily.com
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thauschild@nspjarch.com
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matthew.munger@cityofLS.net
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BY: JIM BYRNES
SR PROJ MANAGER

KANSAS CITY TESTING & ENGINEERING, LLC

Kansas City Testing & Engineering, LLC
1308 Adams Street
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Phone 913.321.8100
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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 NO.: R20-17-261
REPORT NO.: K22071
DATE OF SERVICE: 01/31/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 02/12/2018

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

	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: 720 PREVIOUS: 709
DENSITY - CURRENT: 1483 PREVIOUS: 1491
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
3.	STANDARD PROCTOR	REDDISH BROWN SILTY CLAY	23.1	96.7	K21466
4.	STANDARD PROCTOR	YELLOWISH BROWN SILTY CLAY	19.0	102.8	K21468

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.	B.5-0.5	8	6' bg	1	23.4	22.1	121.5	98.5	99.9	99
2.	C.2-0.5	8	8' bg	1	21.8	22.1	116.3	95.5	99.9	96
3.	D.1-0.5	8	11.9' bg	1	21.3	22.1	118.9	98.0	99.9	98
4.	C-1.1	8	6' bg	1	24.0	22.1	118.9	95.9	99.9	96
5.	D.1-1.1	8	2' bg	1	23.9	22.1	121.1	97.7	99.9	98
6.	San sewer lateral to bldg #8	8	4' bg	2	22.5	21.1	118.6	96.8	101.4	95
7.	San sewer lateral to bldg #8	8	3' bg	3	24.6	23.1	118.0	94.7	96.7	98

Report of Tests continued on page 2

REPORT OF TESTS (continued)

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

DATE OF SERVICE: 01/31/2018

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)
8.	B.5-0.5	8	4' bg	3	25.7	23.1	115.4	91.8	96.7	95
9.	C.2-0.5	8	7' bg	3	24.9	23.1	116.5	93.3	96.7	96
10.	D.1-0.5	8	11' bg	3	25.9	23.1	115.7	91.9	96.7	95
11.	C.1-1.1	8	3' bg	1	24.4	22.1	119.1	95.7	99.9	96
12.	C.2-0.5	8		3	25.1	23.1	115.0	91.9	96.7	95
13.	B.5-0.5	8	3.5' bg	4	19.9	19.0	120.1	100.2	102.8	97
14.	C.2-0.5	8	7' bg	1	22.3	22.1	116.3	95.1	99.9	95
15.	D.1-0.5	8	8' bg	1	21.4	22.1	117.6	96.9	99.9	97
16.	D.1-1.1	8	1' bg	1	22.7	22.1	119.3	97.2	99.9	97
17.	C.1-1.1	8	2' bg	1	23.4	22.1	117.8	95.5	99.9	96
18.	B.7-1.1	8	3' bg	1	25.3 *	22.1	119.9	95.7	99.9	96

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

ADDITIONAL COMMENTS:

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

Report Distribution:

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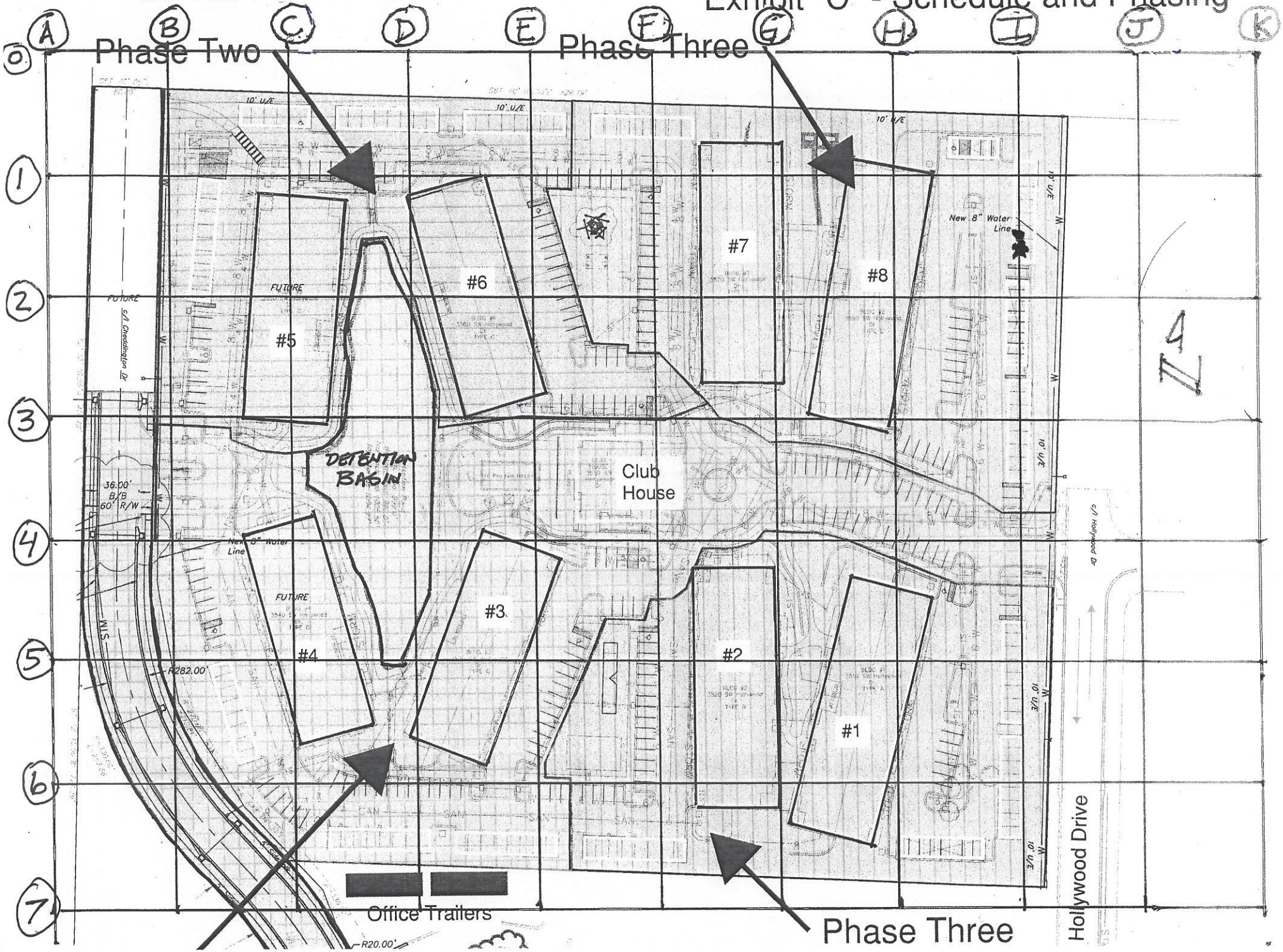
KANSAS CITY TESTING & ENGINEERING,

JIM BYRNES, R.G.
PROJECT MANAGER

DENSITY TEST LOCATION GRID
RESIDENCES AT ECHELON

Exhibit "C" - Schedule and Phasing



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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.: K22099
DATE OF SERVICE: 02/01/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 02/12/2018

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 +2% of Opt

GAUGE: Troxler 3440
GAUGE SERIAL NO.: 15277
STANDARD COUNTS
MOISTURE - CURRENT: 713 PREVIOUS: 720
DENSITY - CURRENT: 1485 PREVIOUS: 1483
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	GRAY SILTY CLAY	21.0	100.4	K21465
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) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)
1.	C-0.6	8	3' bg	1	22.6	21.0	118.6	96.7	100.4	96
2.	C.9-0.6	8	6' bg	2	25.1 *	22.1	120.2	96.1	99.9	96
3.	D.1-0.6	8	9' bg	2	24.7 *	22.1	119.6	95.9	99.9	96
4.	C.9-1.2	8	5' bg	2	24.3 *	22.1	118.8	95.6	99.9	96
5.	B.9-1.2	8	3' bg	2	24.2 *	22.1	119.2	96.0	99.9	96
6.	San sewer lateral to bldg 4	8	4' bg	2	23.1	22.1	120.3	97.7	99.9	98
7.	D.1-0.6	8	6.5' bg	2	23.3	22.1	118.5	96.1	99.9	96

Report of Tests continued on page 2

REPORT OF TESTS (continued)

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

DATE OF SERVICE: 02/01/2018

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)
8.	C.9-0.6	8	3' bg	2	24.3 *	22.1	119.2	95.9	99.9	96
9.	C-0.6	8	1.5' bg	2	25.0 *	22.1	119.4	95.5	99.9	96
10.	C.9-1.1	8	5' bg	1	24.3 *	21.0	119.5	96.1	100.4	96
11.	B.9-1.1	8	3' bg	2	22.4	22.1	121.1	98.9	99.9	99
12.	San sewer lateral to bldg 4	8	2' bg	2	23.7	22.1	120.9	97.7	99.9	98
13.	San sewer lateral to bldg 4	8	1' bg	2	24.2 *	22.1	121.8	98.1	99.9	98
14.	San sewer lateral to bldg 3	8	5' bg	2	25.0 *	22.1	119.6	95.7	99.9	96
15.	Line B, M/L 0+40	8	5' bg	2	24.9 *	22.1	121.5	97.3	99.9	97
16.	San sewer lateral to bldg 3	8	4' bg	2	25.0 *	22.1	119.8	95.8	99.9	96
17.	San sewer lateral to bldg 3	8	3' bg	2	24.9 *	22.1	120.9	96.8	99.9	97
18.	San sewer lateral to bldg 3	8	2' bg	2	24.1	22.1	121.7	98.1	99.9	98
19.	C.7-0.8	8	6' bg	2	22.8	22.1	117.2	95.4	99.9	95
20.	C-0.8	8	2.5' bg	2	21.2	22.1	117.2	96.7	99.9	97
21.	B.5-0.4	8	on grade	2	23.8	22.1	118.2	95.5	99.9	96
22.	C.2-1.2	8	on grade	2	22.9	22.1	124.3	101.1	99.9	101
23.	C.4-1.1	8	on grade	2	25.1 *	22.1	120.3	96.2	99.9	96

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

ADDITIONAL COMMENTS:

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

Report Distribution:

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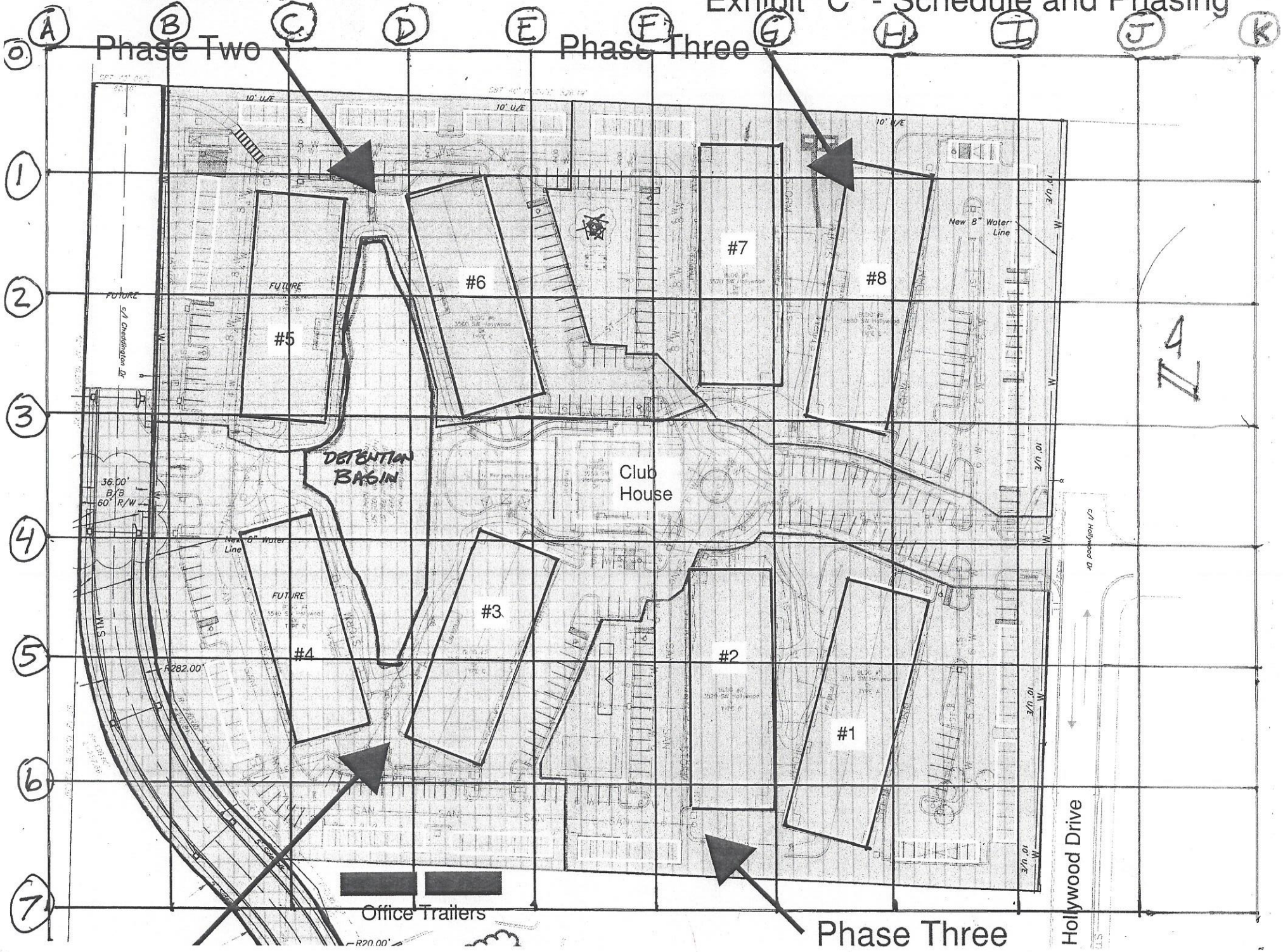
KANSAS CITY TESTING & ENGINEERING,

JIM BYRNES, R.G.
PROJECT MANAGER

DENSITY TEST LOCATION GRID
RESIDENSES AT ECHELON

Exhibit "C" - Schedule and Phasing



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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 NO.: R20-17-261
REPORT NO.: K22123
DATE OF SERVICE: 02/02/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 02/12/2018

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

	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: 713 PREVIOUS: 720
DENSITY - CURRENT: 1485 PREVIOUS: 1483
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	YELLOWISH BROWN SILTY CLAY	19.0	102.8	K21468
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) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)
1.	STORM SEWER: 100' N of box 2-1	8	on grade	1	19.3	19.0	116.4	97.6	102.8	95
2.	100' SE of inlet 2-1	8	3' bg	2	24.0	22.1	120.5	97.2	99.9	97
3.	30' SW of inlet 2-4	8	2' bg	2	23.8	22.1	120.7	97.5	99.9	98
4.	30' SW of inlet 2-4	8	on grade	2	22.0	22.1	118.5	97.1	99.9	97
5.	30' NW of inlet 2-3	8	1' bg	2	22.6	22.1	122.4	99.8	99.9	100
6.	40' E of inlet 2-1	8	on grade	2	21.8	22.1	120.7	99.1	99.9	99
7.	20' E of inlet 2-1	8	2' bg	2	21.1	22.1	119.8	98.9	99.9	99

Report of Tests continued on page 2

REPORT OF TESTS (continued)

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

DATE OF SERVICE: 02/02/2018

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)
8.	30' E of inlet 2-1	8	2' bg	2	22.1	22.1	121.0	99.1	99.9	99
9.	40' SE of inlet 2-1	8	on grade	1	20.0	19.0	120.0	100.0	102.8	97
10.	30' SW of inlet 2-4	8	on grade	2	21.1	22.1	120.9	99.8	99.9	100

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

ADDITIONAL COMMENTS:

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 & 50
LEE'S SUMMIT, MO

PROJECT NO.: R20-17-261
REPORT NO.: K22203
DATE OF SERVICE: 02/09/2018
AUTHORIZATION: JAKE LOVELESS
REPORT DATE: 02/12/2018

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: 715 PREVIOUS: 713
DENSITY - CURRENT: 1482 PREVIOUS: 1483
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	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) WET	FIELD DENSITY (pcf) DRY	MAXIMUM DENSITY (pcf)	DENSITY (% max)
1.	SANITARY SEWER LINE A: 20' N of MH A-2	8	2' bg	1	21.4	21.0	119.0	98.0	100.4	98
2.	100' N of MH A-2	8	3' bg	1	21.6	21.0	123.5	101.6	100.4	101
3.	120' N of MH A-2	8	1' bg	1	22.9	21.0	119.8	97.5	100.4	97
4.	160' N of MH A-2	8	on grade	2	24.1	23.1	116.0	93.5	96.7	97
5.	220' N of MH A-2	8	1' bg	2	23.5	23.1	115.3	93.4	96.7	97

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

Report of Tests continued on page 2

KANSAS CITY TESTING & ENGINEERING, LLC

REPORT OF TESTS (continued)

REPORT NO.: K22203

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

DATE OF SERVICE: 02/09/2018

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:

Technician: ANDREW WILSON, SR. ENGR. TECHNICIAN

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PROJECT MANAGER