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Payetteville, NC 3830 (910) 401-3288 [Plume]

(910) 323-0539 [Fin] SC Registered Engineering Firm # 1-16 rg PROTECTION OF THE ANSWERING

August 14, 2016

Cares Building 639 Executive Place

Suite 400

Fayetteville NC 28305

ATTN: Mr. Cameron MacKethan

RL: Lin 138 Tingen Politic

ECS (ob.) 33:3047-C

Permus:

Location: 874 Omaha Drive

Broadway, NC

We are enclosing:

Materials Engineering Division Reports

For your use

As requested

ENCI

Field Report # 1

08-08(20).. Revised 4/5/2016

Aaron Cain

CMT Department Manager



Project

Location

Client

Remarks

Trip Charges*

Chargeable Items

ECS Carolinas, LLP

6151 Raeford Road Suite A Fayetteville, NC 28304 (910) 401-3288 [Phone] (910) 323-0539 [Fax]

Lot 148 Tingen Pointe

Contractor Cates Building - Cameron MacKethan

Broadway, NC

FIELD REPORT

Project No.

33:3047-G

Report No.

Day & Date

Monday 08/08/2016

Weather

90°/ Cloudy

On-Site Time

1.00

Lab Time

0.25

Travel Time*

Re Obs. Time

1.50

Total

2.75 0.00

Cates Building - Cameron MacKethan

Tolls/Parking*

Mileage*

Time of

Departure

Arriva!

91:00P 02:00P

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

An ECS Representative arrived on-site, as requested, to observe the compaction of soils for Building pad at Tingen Pointe Lot 148. Please see the attached sketch and detailed compaction summary sheet.

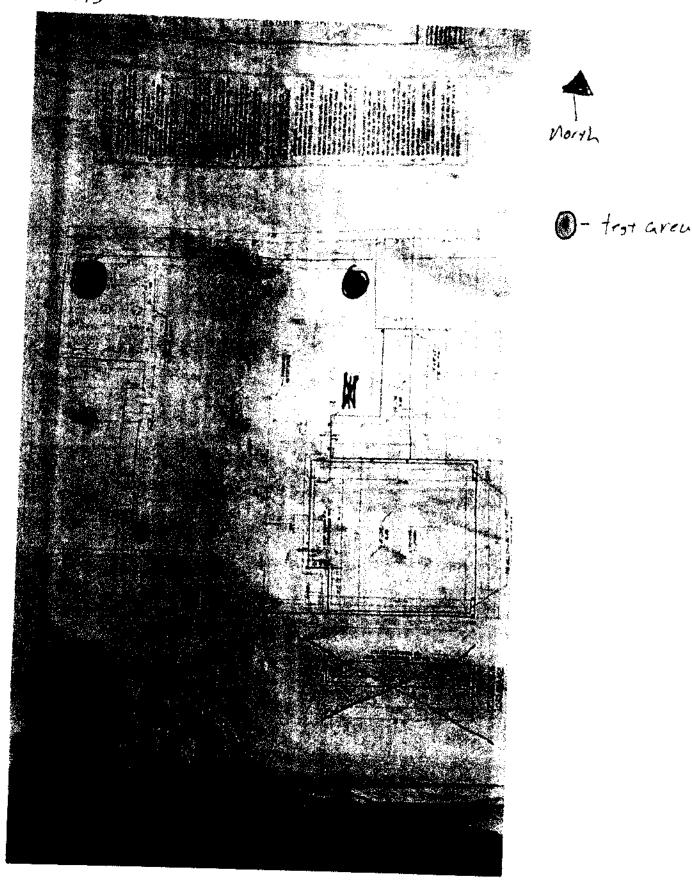
Utilizing the Nuclear Method (ASTM D 6938) to check the compaction of the soils at the areas and elevations tested, test results will be determined when the samples collected are tested in our laboratory using the Standard Proctor Method (ASTM D 698).

Areas tested were based on stakeouts or work limits provided by others and were not confirmed by the undersigned.

ECS will return, as requested, to perform additional services.

Test results indicated that the materials at the locations and elevations evaluated did meet the requirements of 95% of the maximum dry density as obtained in our laboratory using the ASTM D698 Standard Proctor Method.

^{*} Travel time and mileage will be billed in accordance with the contract.





Field Compaction Summary, ASTM 6938

Page 1

Project No: 3047-G

Project Name: Lot 148 Tingen Pointe

Model

Date: 08/08/16

ECS CAROLINAS, LLP

Contractor: Cates Building

Client: Cates Building

Nuclear Gauge No. 895 Make

Density Std 2325 Moisture Std 840 Ser. No. 895

Test Method ASTM 6938

Technician: Clint Hendrix

Sample No. 2209). 	Description Tan silty sand (Visual)				Proctor M	lethod			1	<u></u>		-
						ASTM D 698-07 Method A Standard				Uncorrected Max. Density			Uncorrected Opt. M	
T.		Probe									113.20			11.00
							Corrected Maximum			Test Data	1			<u> </u>
Test No.	Test Mode	Depth (in.)	Location	Lift / Elev	Sample No.	% Oversize	Dry	Optimum Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Moisture Content (%)		P/F	Comments
T 	DT	6	Test area one (1). Most southern corner of buildin	-3' from s	2209	0.00	113.20	11.00	119.4	108.2	10.3	95.6	P	
2	DT	6	building no	-3' from s	2209	0.00	113.20	11.00	118.0	109.0	8.2	96.3	P	
3	Т		Test area three (3). Northeast corner of building	-3 from su	2209	0.00	113.20	11.00	119.7	110.3	8.4	97.4	P	
4	DT	6	building p	-4' from s	2209	0.00	113.20	11.00	126.2	115.0	9.6	102	P	<u> </u>