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

LETTER OF TRANSMITTAL

September 18, 2019	RE: **Lot 34 Summerlin**
Precision Custom Homes 256 Briar Hill Rd. Raeford, NC 28376	ECS Job # **33:4976** Permits: Location: **85 Summerlin Dr** **Sanford, NC**
ATTN: Mr. Allen Peterson	

We are enclosing: **X** Field Reports **X** For your use **X** As requested

ENCL:

Field Report # 1 09/16/2019

NORTH CAROLINA PROFESSIONAL SEAL 043840 ENGINEER DENNIS D. LOWERY

SEP 18 2019

Dennis D Lowery, P.E.
Project Engineer

Donny Johnson
Field Services Manager

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

FIELD REPORT

Project No.	**33:4976**
Report No.	**1**
Day & Date	**Monday 09/16/2019**
Weather	**88°/ Sunny**
On-Site Time	**1.75**
Lab Time	**0.00**
Travel Time*	**0.00**
Total	**1.75**
Re Obs.Time	**0.00**

Project **Lot 34 Summerlin**

Location **Sanford, NC**

Client **Precision Custom Homes - Allen Peterson**

Remarks

Trip Charges* Tolls/Parking* Mileage*

Chargeable Items

Time of Arrival **09:15A** Departure **11:00A**

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

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

The undersigned arrived on site, as requested, to observe and evaluate the bearing capacity of soils via hand auger/dcp method for foundations.

A hand auger was used to advance the boreholes to different depths noted on the boring logs. Dynamic Cone Penetrometer (DCP) test were performed in the hand auger boreholes by a 1.5 inch diameter cone driven into the soil by a 15 pound ring weight with a free fall of 20 inches. The number of blows required to drive the cone into the soil a distance of 1.75 inches is termed the DCP Value and is indicated for each test on the hand auger. Please see the attached sketch and data sheet for details.

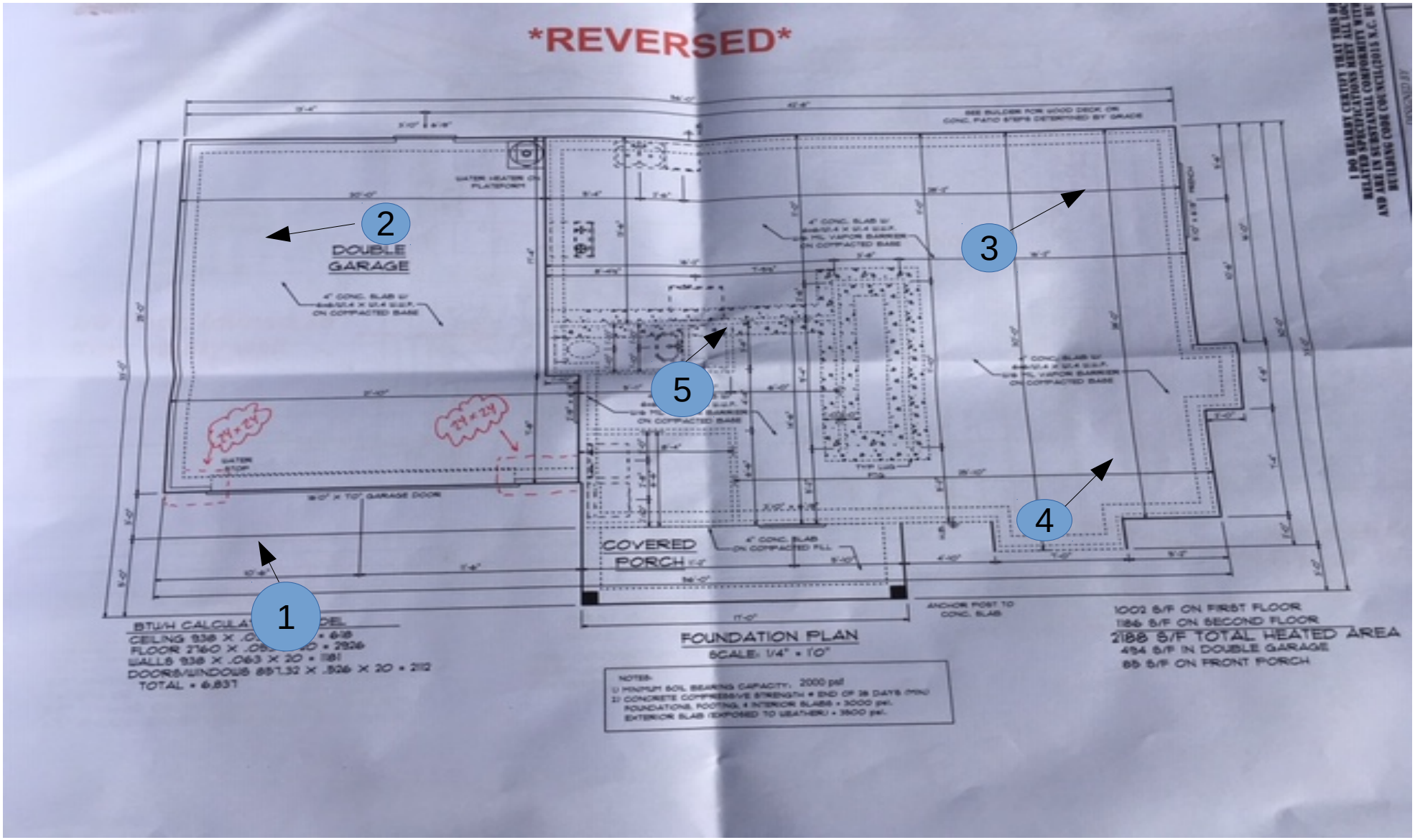
A total of 5 hand auger/DCP evaluation(s) were performed to a depth of approximately 4 feet below the current sub grade elevation. The amount of fill used determined that all but the Southeast corner needed to be excavated one foot before starting DCP's Tests. Soil encountered was Red sandy Clay, Gray Clay Sand, Orange Brown Sand Clay DCP blow counts ranged from 7 to 25+ blows per increment. It is to the opinion of ECS that the materials in place at test locations in the foundation did appear to be suitable to support the design bearing capacity 2000 psf.

Please see sketch for DCP evaluation locations.

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

By **Thomas Allen Wilmot, — Field Technician** 1800

1086279



Thomas Wilmot Sept, 16th 2019 85 Summerlin Rd Proj: 4967 WO#: 53575	**Key (NTS)** DCP's Test Location (#)	ECS	NORTH →

Report of Spread Footing - Foundation Observations

Project: Lot 34 Summerlin

Location: 85 Summerlin Dr
Sanford - Lee - NC - 27332

Contractor: None Listed

Project No. 4976

Day/Date: 09/16/2019

Footing Number	Location	Size (W x H x L)		Footing Bottom Elevation			Description of Subgrade Material	Required Blow Counts	Design Bearing Pressure
		Design	Actual	Design	Depth of Undercut (in)			# of Blows / increment	
1	Southeast	x x	x x	N/A	0 .		Grey Clay Sand	6 6,8,8	2000
1	Southeast	x x	x x	N/A	-1 .		Tan Clay Sand	6 5,13,15	2000
1	Southeast	x x	x x	N/A	-2 .		Tan Clay Sand	6 14,8,9	2000
1	Southeast	x x	x x	N/A	-3 .		Orange Brown Sand Clay	6 4,6,7	2000
2	Southwest Corner	x x	x x	N/A	-1 .		Red Sand Clay	6 5,8,10	2000
2	Southwest Corner	x x	x x	N/A	-2 .		Tan Clay Sand	6 7,13,15	2000
2	Southwest Corner	x x	x x	N/A	-3 .		Tan Clay Sand	6 15,19,21	2000
2	Southwest Corner	x x	x x	N/A	-4 .		Orange Brown Sand Clay	6 5,8,8	2000
3	Northwest Corner	x x	x x	N/A	-1 .		Red Sand Clay	6 10,14,16	2000

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WO:53575

Report of Spread Footing - Foundation Observations

Project: Lot 34 Summerlin

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Contractor: None Listed

Project No. 4976

Day/Date: 09/16/2019

Footing Number	Location	Size (W x H x L)		Footing Bottom Elevation			Description of Subgrade Material	Required Blow Counts	Design Bearing Pressure
		Design	Actual	Design	Depth of Undercut (in)			# of Blows / increment	
3	Northwest Corner	x x	x x	N/A	-2 .		Red Sand Clay	6 7,11,13	2000
3	Northwest Corner	x x	x x	N/A	-3 .		Red Sand Clay	6 8,10,12	2000
3	Northwest Corner	x x	x x	N/A	-4 .		Red Sand Clay	6 7,9,14	2000
4	Northeast Corner	x x	x x	N/A	-1 .		Red Sand Clay	6 6,9,14	2000
4	Northeast Corner	x x	x x	N/A	-2 .		Tan Clay Sand	6 6,12,15	2000
4	Northeast Corner	x x	x x	N/A	-3 .		Tan Clay Sand	6 12,16,18	2000
4	Northeast Corner	x x	x x	N/A	-4 .		Tan Clay Sand	6 Auger refusal	2000
5	Center	x x	x x	N/A	-1 .		Red Clay Sand	6 6,8,12	2000
5	Center	x x	x x	N/A	-2 .		Tan Clay Sand	6 6,14,16	2000

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Project No. 4976

Day/Date: 09/16/2019

Footing Number	Location	Size (W x H x L)		Footing Bottom Elevation			Description of Subgrade Material	Required Blow Counts	Design Bearing Pressure
		Design	Actual	Design	Depth of Undercut (in)			# of Blows / increment	
5	Center	x x	x x	N/A	-3 .		Tan Clay Sand	6 10,10,12	2000
5	Center	x x	x x	N/A	-4 .		Orange Brown Sand Clay	6 6,7,9	2000

By: Thomas Allen Wilmot

ECS Southeast, LLP

WO:53575