



ECS Southeast, LLP

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LETTER OF TRANSMITTAL

July 19, 2022
Ben Stout Construction
PO Box 53798
Fayetteville, NC 28305
ATTN: David Webb

RE: **754 Walker Rd**
ECS Job # **33:6094**

Permits:
Location: **754 Walker Rd**
Bunnlevel, NC 28356

Field Reports For your use As requested

CC:

ENCL: Field Report # 1 7/15/2022 Foundation Soils Bearing



JUL 19 2022

Jack Cowsert, P.E.
Senior Project Engineer

Charles A. Pearson
CMT Senior Project Coordinator

Disclaimer

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.



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FIELD REPORT

Project **754 Walker Rd**
 Location **Bunnlevel, NC**
 Client **Ben Stout Construction**
 Contractor **Ben Stout Construction**

Project No. **33:6094**
 Report No. **1**
 Day & Date **Friday 7/15/2022**
 Weather **90 °/ Sunny**
 On-Site Time **1.50**
 Lab Time **0.00**
 Travel Time* **0.00**
 Total **1.50**
 Re Obs Time **0.00**

Remarks **Foundation Soils Bearing**

Trip Charges*	Tolls/Parking*	Mileage*	Time of Arrival	Departure
Chargeable Items			2:00P	3:30P

* 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.

ECS arrived on site, as requested, to check the bearing capacity of soils via hand auger/DCP method for foundation footings. Please see the attached sketch and data sheet for details.

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 attached DCP data sheet.

A total of 4 hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the current soil sub grade elevation. Test results indicated that the materials, at the locations and elevations tested (except for location 4, which appeared to be saturated at the bottom of footing elevation, see below for recommendation.), did appear to be suitable to support a design bearing capacity 2,000 psf.

ECS recommends that the saturated soils in the footing excavations be removed throughout the building pad and that the the area around test location #4 (Southwest corner) be undercut approximately 1 foot and backfilled with either suitable structural fill or additional concrete. If backfilled with soils, a retest of the area by ECS is recommended to verify bearing capacity.

Technician Note: All footings were observed as being very saturated, with standing water observed in some.

ECS will return upon request for additional services.



Report of Spread Footing - Foundation Observations

Project: 754 Walker Rd
 Location: 754 Walker Rd
 Bunnlevel - Harnett - NC - 28356
 Contractor: Ben Stout Construction

Project No.: 33:6094
 Day/Date: 7/15/2022

Footing Number	Location	Size (W x H x L)		Footing Bottom Elevation		Description of Steel Placed	Description of Subgrade Material	Required Blow Counts # of Blows / Increment	Design Bearing Pressure
		Design	Actual	Design **	Depth of Undercut (in)				
1	footings	x x	x x	N/A	-2		(0,-1)OCS (-2,-3) rock	6 (0)5,4,3 (-1)7,7,8 (-2) Rock (-3) Rock	2000
2	footings	x x	x x	N/A	-2		(0,-1)OCS (-2,-3)Black soil	6 (0)5,5,4 (-1)7,7,8 (-2) 6,6,8 (-3)7,7,9	2000
3	footings	x x	x x	N/A	-2		(0,-1)OCS (-2,-3)Black soil	6 (0)6,6,5 (-1)7,8,6 (-2) 7,6,6 (-3)9,11,12	2000
4	footings	x x	x x	N/A	-2		(0,-1)OCS (-2,-3)Black soil	6 (0)3,2,2 (-1)5,5,6 (-2) 5,6,7 (-3)7,7,9	2000

** SGE: Subgrade Elevation to be determined by surveyor.

By: Gatlin Pate _____

 ECS Southeast, LLP



Report of Spread Footing - Foundation Observations

Project: 754 Walker Rd
Location: 754 Walker Rd
Bunnlevel - Harnett - NC - 28356
Contractor: Ben Stout Construction

Project No.: 33:6094
Day/Date: 7/15/2022

WO: 67896