ECS Southeast, LLP 6151 Raeford Road Suite A Fayetteville, NC 28304 (910) 401-3288 [Phone] (910) 323-0539 [Fax]	LETTER OF TRANSMITTAL
September 24, 2019	RE: Gospel Tabernacle Church
Certified Construction Services 9820 Us Highway 301 North	ECS Job # 33:4989
Lumberton, NC 28360	Permits: Location: 3711 NC Hwy 55
ATTN: Terry Locklear	Dunn, NC
We are enclosing: \underline{X} Field Reports \underline{X}	For your use <u>X</u> As requested

ENCL:

Field Report # 1 09/20/2019

CADennis DEL 4 2019 Project Engineers NNIS LINNIS D. L

Rya H. Parish

Ryan H. Parrish Construction Materials Project Manager

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 recorded 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.

Er		ECS Southeast, LLP 6151 Raeford Road Suite A Fayetteville, NC 28304			FIELD REPORT				
		(910) 401-3288 [Phone] (910) 323-0539 [Fax]		Project N Report N		33:4989 1			
Project	Gospel	Tabernacle Church			Day & Da	ate	Frida	ay 09/20/20	19
Location	Dunn, N	NC			Weather 70°/ Sunr			Sunny	
Client	Certifie	d Construction Services - Terry	Locklear		On-Site T	Dn-Site Time 2.00			
		J			Lab Time	;	0.00		
					Travel Tir	me*	2.00		
					Total	-	4.00	•	
Remarks					Re Obs.T	Time	0.00		
Trip Charges'	*	Tolls/Parking*	Mileage*	70	Time of	Arriv	val D	Departure	
Chargeable It	tems					09:()0A	11:00A	
		* Travel time and mileage will	be billed in acc	ordance	with the con	tract.			

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

An ECS representative arrived on site, as requested, to check the bearing capacity of soils via hand auger/dcp method for the perimeter foundation footings. Please see the attached sketch.

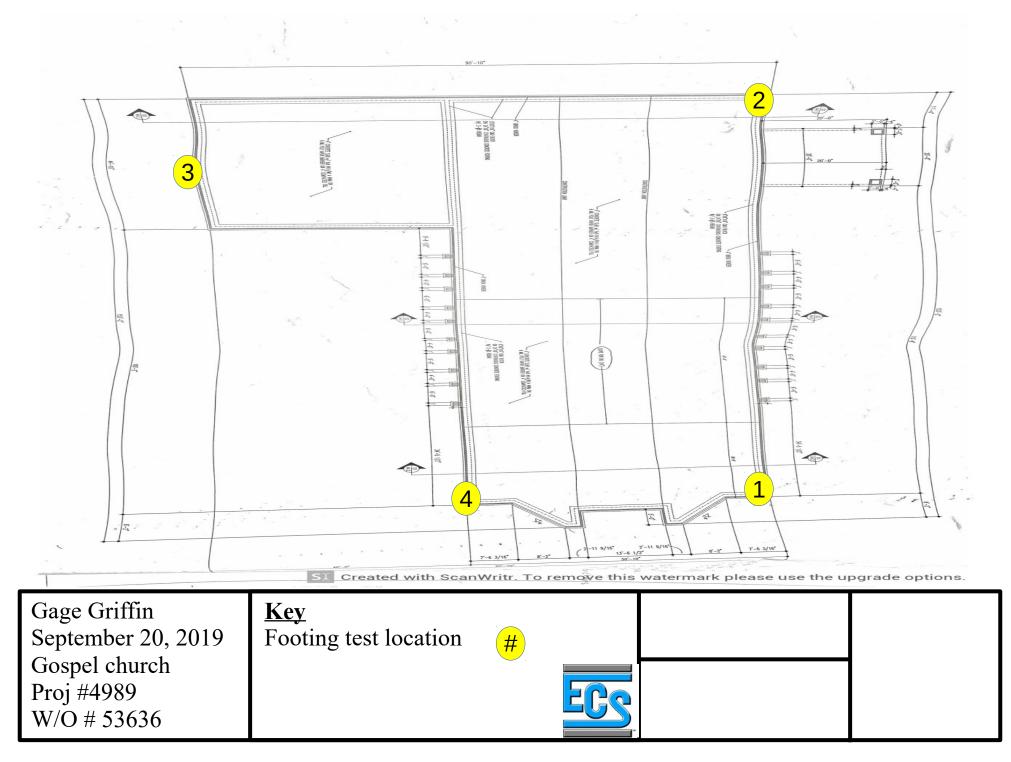
A hand auger was used to advance the boreholes to different depths noted on the boring logs. Dynamic Cone Penetrometer (DCP) test were performed in the hand auger boreholes by a 1.5 inch diameter cone driven into the soil by a 15 pound ring weight with a free fall of 20 inches. The number of blows required 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.

A total of (4)hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the current sub grade elevation. DCP blow counts ranged from 2 to 6 blows per increment.

It is to the opinion of ECS that the materials in place at the locations and elevations tested did not appear to be suitable to support the design bearing capacity of 2000 psf.

Based on our observations and recorded data, ECS recommends over excavating the perimeter footings to a depth of 3 foot below the bottom of footing elevation and backfilling using imported #57 stone or structural fill. Please note if structural fill is chosen then the material should be install in 10-12 inch loose lifts and properly compacted to achieve 95% of a standard proctor method.

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



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Report of Spread Footing - Foundation Observations



Project: Gospel Tabernacle Church

Location: 3711 NC Hwy 55

Dunn - Harnett - NC - 28334

Contractor: None Listed

Project No. 4989

Day/Date: ___09/20/2019

		Size (V	V x H x L)	Footing Bottom Elevation			Required Blow Counts		
Footing Number	Location	Design	Actual	Design	Depth of Undercut (in)	Description of Subgrade Material	# of Blows / increment	Design Bearing Pressure	
1	church footing	хх	хх	2000	0.	orange sandy clay	6 6,3,4	2000	
1	church footing	хх	хх	2000	-1 .	orange sandy clay	6 5,5,4	2000	
1	church footing	хх	хх	2000	-2 .	orange clay	6 2,3,2	2000	
1	church footing	хх	хх	2000	-3.	orange clay	6 3,3,3	2000	
2	church footing	хх	хх	2000	0.	orange sandy clay	6 6,4,4	2000	
2	church footing	хх	хх	2000	-1 .	orange sandy clay	6 6,5,5	2000	
2	church footing	хх	хх	2000	-2 .	orange clay	6 3,3,4	2000	
2	church footing	хх	хх	2000	-3.	orange clay	6 3,2,2	2000	
3	church footing	хх	хх	2000	0.	tan sand	6 5,5,6	2000	

By: Gage Thomas Griffin

ECS Southeast, LLP

Report of Spread Footing - Foundation Observations



Project: Gospel Tabernacle Church

Location: 3711 NC Hwy 55

Dunn - Harnett - NC - 28334

Contractor: None Listed

Project No. 4989

Day/Date: ____09/20/2019

		Size (V	V x H x L)	Footing Bottom Elevation			Required Blow Counts	
Footing Number	Location	Design	Actual	Design	Depth of Undercut (in)	Description of Subgrade Material	# of Blows / increment	Design Bearing Pressure
3	church footing	хх	хх	2000	-1 .	orange clay	6 5,6,5	2000
3	church footing	хх	хх	2000	-2 .	orange clay	6 4,4,5	2000
3	church footing	хх	хх	2000	-3.	orange clay	6 3,4,4	2000
4	church footing	хх	хх	2000	0.	orange sandy clay	6 6,6,5	2000
4	church footing	хх	хх	2000	-1 .	orange clay	6 5,4,6	2000
4	church footing	хх	хх	2000	-2 .	orange clay	6 4,4,5	2000
4	church footing	хх	хх	2000	-3 .	orange clay	6 4,3,3	2000

By: Gage Thomas Griffin

ECS Southeast, LLP