Dream Finders Homes-Carolinas
2919 Breezewood Avenue
Suite 400
Fayetteville, NC 28303

08/05/2025

Attention : Blake Dickerhoff
Chris Adams

RE: Daily Field Report for 07/21/2025
Lot 55 Magnolia Ridge (CMT) Lillington, NC
Building & Earth Project No : RD250692

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

FO-1 : Field Observations made on this date.

- Foundation Inspection for Garage — For Information Only

Comment 1 : Based on our observations and test results, the required bearing capacity of (2,000 psf) is available at the location and elevations tested on this date for the Garage. We understand that the soil in the porch will be removed and NCDOT #57 will be placed.

ST-1 : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTMD1556, using the results of field one-point as compared to the laboratory proctors. One(1) in-place field density test was performed on this date. The testing results indicate that in-place compaction and moisture content at the location and depth tested meet or exceed the specified requirements outlined in the project plans and specifications. For additional details of our testing, please refer to the attached Field Density Test Report.

Closing

The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.

Respectfully Submitted,
Building & Earth Sciences, LLP

Enclosures : FO-1, ST-1

NORTH CAROLINA PROFESSIONAL SEAL 024482 ENGINEER KURT A. MILLER

Digitally signed by:
- Rachael Heath
- 08/05/2025
- 14:18:06

Rachael Heath
Reviewed By

1027 US Highway 70 West
Garner, NC 27529
Phone 910-292-2085 Fax 910-292-2192
www.BuildingandEarth.com

Field Observations Report

Project Name:	**Lot 55 Magnolia Ridge (CMT) Lillington, NC**	Project Number:	**RD250692**
Client Name:	**Dream Finders Homes-Carolinas**	Placement#:	**FO-1**
Contractor:	**Dream Finders Homes-Carolinas**	Technician:	**Adam Buechler**
Monitoring:	**DCP**		

1 : Foundation Inspection for Garage

Our technician was onsite to perform a shallow foundation inspection for Lot 15 at the center of the Garage and the center of the Patio. The foundation requires a bearing capacity of 2000 psf. Bearing soils appeared to consist mostly of dry, silty sand. No standing water was noted on the bearing surface. Hand rod probing was performed on 100% of the bearing surface with average penetration of approximately 1" of depth inside the garage and 6"-2' inside the patio. Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at two representative locations to a depth of 36 inches. Water was not observed within the DCP boreholes.

The following information provides the results of our hand auger boring and DCP testing:

Test 1: Center of garage

--- Depth----"N"--------Soil Color-------USCS----Notes
--- FSG------ 11-------- Gray --- Silty sand------ Soils appeared to be dry of optimum moisture
--- -1'-------- 8 -------- Gray --- Silty sand------ Soils appeared to be dry of optimum moisture
--- -2'-------- 9 ------- Red--- Silty clay------ Soils appeared to be dry optimum moisture
--- -3'-------- 11-------- Red --- Silty clay------ Soils appeared to be dry of optimum moisture

Test 2: Center of patio

--- Depth----"N"--------Soil Color-------USCS----Notes
--- FSG------ 3-------- Gray --- Silty sand------ Soils appeared to be dry of optimum moisture
--- -1'-------- 3-------- Gray --- Silty sand------ Soils appeared to be dry of optimum moisture
--- -2'-------- 13 ------- Red--- Silty clay------ Soils appeared to be dry optimum moisture
--- -3'-------- 15+-------- Red --- Silty clay------ Soils appeared to be dry of optimum moisture

Results:
Based on our observations and test results, the required bearing capacity of (2,000 psf) is available at the location and elevations tested on this date for the Garage. We understand that the soil in the porch will be removed and NCDOT #57 will be placed.

To minimize the potential for future softening of the bearing materials due to water infiltration; reinforcing steel and concrete placement should be completed as soon as practically possible or concrete mud mat should be placed. Any water infiltration should be removed through gravity drainage and/or sump pits and pumping. Any foundations that meet bearing capacity requirement today and experience water infiltration before concrete placement, should be retested by Building & Earth Sciences.

Comments

Comment	Log Date	Log Time
Based on our observations and test results, the required bearing capacity of (2,000 psf) is available at the location and elevations tested on this date for the Garage. We understand that the soil in the porch will be removed and NCDOT #57 will be placed.	08/05/2025	14:17:50

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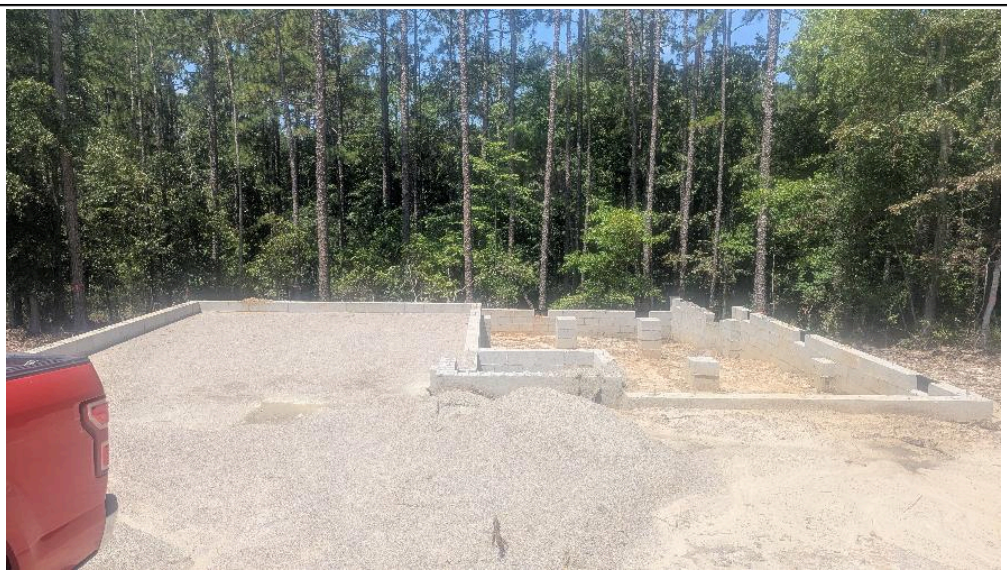
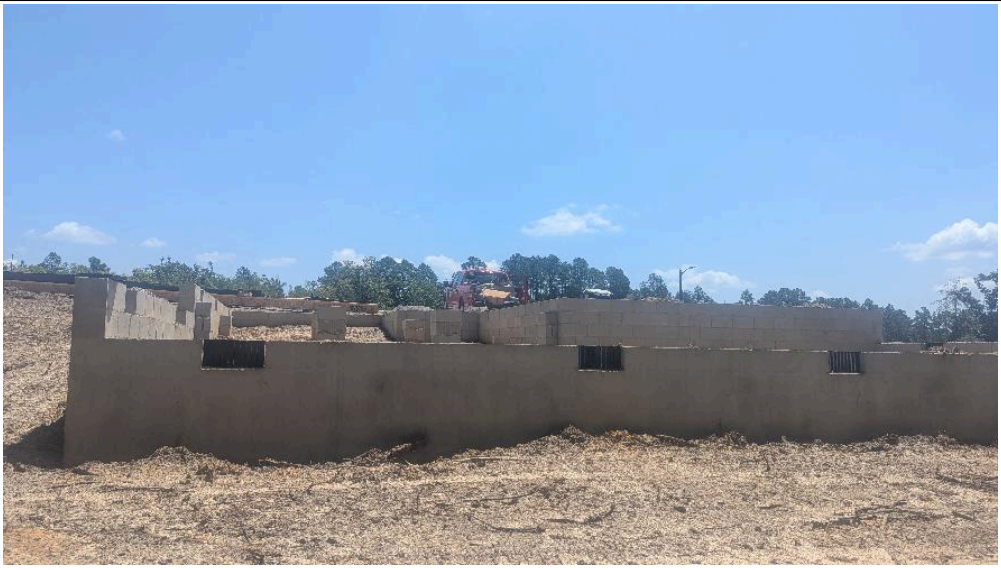
Field Observations Report

Project Name:	**Lot 55 Magnolia Ridge (CMT) Lillington, NC**	Project Number:	**RD250692**
Client Name:	**Dream Finders Homes-Carolinas**	Placement#:	**FO-1**
Contractor:	**Dream Finders Homes-Carolinas**	Technician:	**Adam Buechler**
Monitoring:	**DCP**		

Photographs

Picture ID	Front of lot 55
111295	

Picture ID	Back of lot 55
111297	

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BUILDING & EARTH
Geotechnical, Environmental, and Materials Engineers

ST-1

Test Date: 07/21/2025
Field Technician: Adam Buechler
Tests requested by: JT
Results provided to: JT

Report of Field Density Testing

Project Name:	Lot 55 Magnolia Ridge (CMT) Lillington, NC	Ambient Temperature:	>90
Project Number:	RD250692	Weather:	Sunny
Project Location:	Lillington, NC	Wind Conditions:	Calm
Client:	Dream Finders Homes-Carolinas	Results Provided To:	JT
Contractor:	Dream Finders Homes-Carolinas	Superintendent:	JT

Notes:
1 Test location by client
2 Elevation by Contractor
3 Fill/backfill placed prior to technician arriving

Design & Specification Data

Area ID	Area Description	Depth (ft)	Test Method	% Compaction	Moisture Range	
					Min	Max
FSG-Bldg	Finished Subgrade Soils -Building	0.0 - 2.0	ASTM D-698	95 %	- 10.0	+ 10.0

Laboratory Proctors

Proctor ID	Description of Material	USCS/AASHTO	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
1-point			120.7	6.8%

Density Test Data

Test #	IDs		Test Type	Location	Probe Depth (in)	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor								
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Center of Garage :		FSG	120.0	5.7	99%	PASS

Equipment Used: Standard Counts: Density:
Last Calibration: Moisture:

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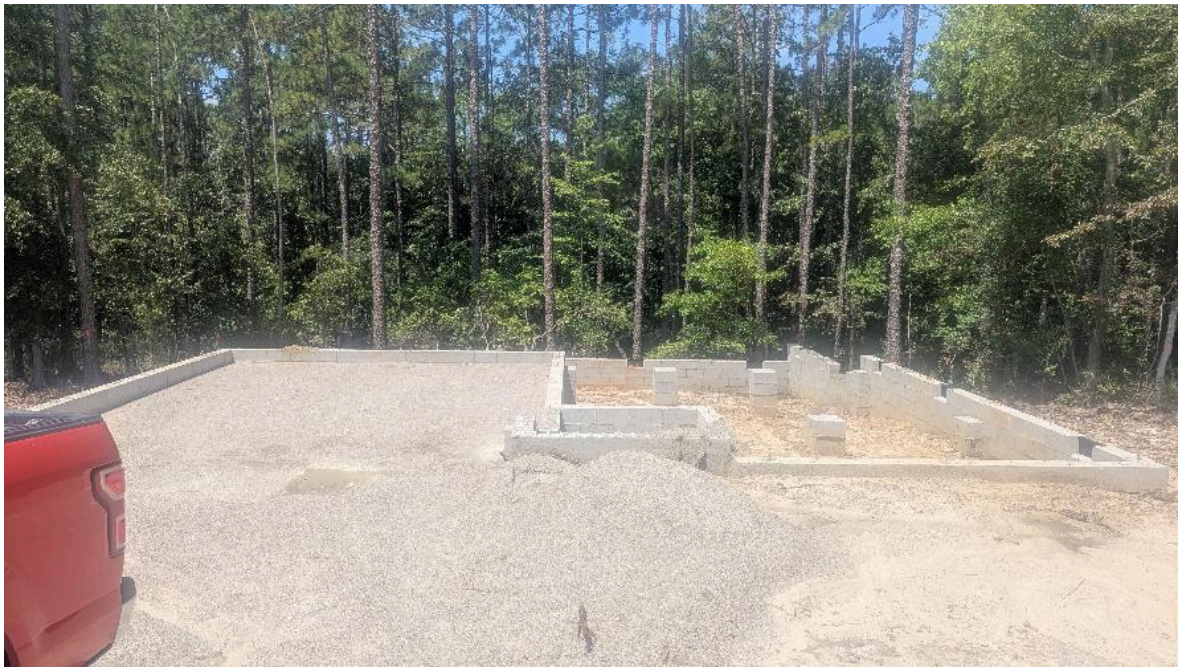
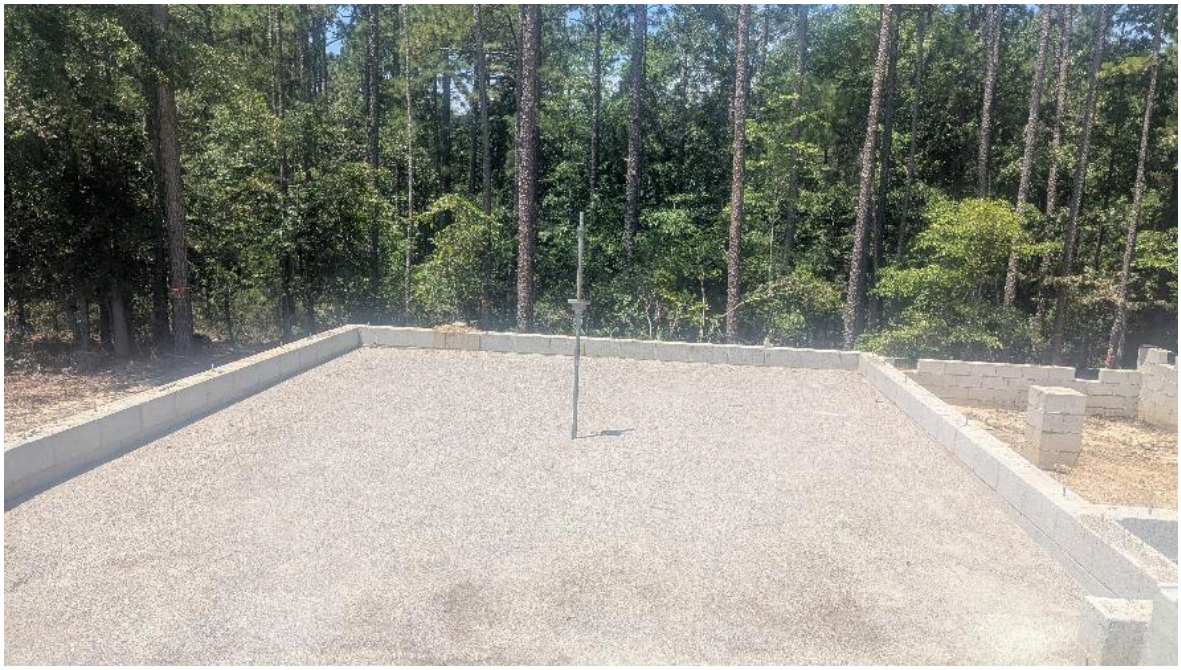
ST-1

Test Date: 07/21/2025
Field Technician: Adam Buechler
Tests requested by: JT
Results provided to: JT

Photographs

Picture ID	Front of building pad
111277	

Picture ID	DCP done in the center of the garage in lot 55
111292	

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