

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

04/01/2024

Attention : Blake Dickerhoff

**RE:** Daily Field Report for 02/08/2024  
Lot 742 Manor @ Lexington MLP (CMT) Cameron, NC  
Building & Earth Project No : RD230689

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-2** : Field Observations made on this date.

- Foundation Inspection

For Information Only

Comment 1 : Based on our observations and test results, we recommend the following:  
Undercut the footings an additional 2 feet below planned bottom of footings. A permanent french drain will also need to be installed throughout the building pad to exit below the bottom of the footings elevation. The tail drain must daylight away from the foundation. Once this is accomplished, replace the undercut with washed NCDOT #57 stone wrapped in filter fabric such as Mirafi 140N.

## 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-2

## Field Observations Report

Project Name: <b>Lot 742 Manor @ Lexington MLP (CMT) Cameron, NC</b>	Project Number: <b>RD230689</b>
Client Name: <b>Dream Finders Homes-Carolinas</b>	Placement#: <b>FO-2</b>
Contractor: <b>Dream Finders Homes-Carolinas</b>	Technician: <b>Carlos Garcia</b>
Monitoring: <b>DCP</b>	

### 1 : Foundation Inspection

We arrived onsite to evaluate the building pad area for this residential lot. Our evaluation as documented in this report includes:

- 1) A visual description of the residential lot
- 2) Comments on any improvements that affect the foundations of the residence
- 3) Hand rod probing of the footing excavations
- 4) Performing Dynamic Cone Penetration (DCP) tests at representative locations
- 5) Soil Density tests on fill, if applicable.

#### Visual Description of the Lot:

The lot generally slopes back to front. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 8 feet. Surface water runoff appears to drain front of the lot.

#### Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 6 inches of topsoil has been removed from the building pad area.

Structural fill has not been placed at the site to level the building pad.

#### Future Footing Tests

**Hand Rod Probing:** Our representative performed hand rod probing of the surface of the building pad. Hand rod probing of the bearing material generally showed an average penetration of approximately 4 inches. Areas of soft/loose material were noted with the hand rod probing to a depth of about 24 inches.

**DCP Testing:** Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at four representative locations to a depth of 36 inches. Our representative did observe water within the DCP boreholes as noted below.

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

#### Test 1: [FRONT LEFT]

-- Depth----"N"-----Soil Color---USCS-----Notes:  
 --- ESG -- 4.5--- Light Grey --- SM -----  
 --- -1' ---- 5.5--- Tan ----- SM -----  
 --- -2' ---- 3 --- Tan -----SM ----- Note 3: Water encountered (at -2 feet through -3 Feet)  
 --- -3' ---- 7 --- Tan ----- SM -----

#### Test 2: [REAR LEFT]

-- Depth----"N"-----Soil Color---USCS-----Notes:  
 --- ESG -- 2.5 - Light Grey --- SM ----- Note 1: Water not encountered  
 --- -1' ---- 8 ----- Tan ----- SM -----  
 --- -2' ---- 5.5 --- Tan ----- SM -----  
 --- -3' ---- 7 ----- Tan ----- SM -----

*Rachael Heath*

Reviewed By

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Monitoring: <b>DCP</b>	

**Test 3: [REAR RIGHT]**

-- Depth---"N"-----Soil Color---USCS-----Notes:  
 --- ESG -- 4 --- Light Grey --- SM ----- Note 1: Water not encountered  
 --- -1' ---- 6 ---- Tan ----- SM -----  
 --- -2' ---- 4 ---- Tan ----- SM -----  
 --- -3' ---- 5.5 --- Tan ----- SM -----  
 --- -4' ---- 8.5 --- Tan ----- SM -----

**Test 4: [FRONT RIGHT]**

-- Depth---"N"-----Soil Color---USCS-----Notes:  
 --- ESG -- 4 --- Light Grey --- SM ----- Note 1: Water encountered at -2 feet through -4.25 Feet  
 --- -1' ---- 3.5 --- Tan ----- SM -----  
 --- -2' ---- 3.5 --- Tan -----SM -----  
 --- -3' ---- 4 ---- Tan ----- SM -----  
 --- -4' ---- 4.5--- Tan ----- SM-----  
 --- -4.25' ----WASHOUT-SM

Based on our testing results and due to the fact that the site is still saturated, we recommend the following:

1. Construct the home on a crawl space foundation.
2. Undercut the footings an additional 2 feet deep and 1 foot wider than planned footings.
3. Install a permanent tail drain to remove water away from the foundation. If that cannot be achieved, install a sump pump at the lowest point to remain on during repairs.
4. Replace the removed soils with washed NCDOT #57 stone, wrapping in filter fabric such as Mirafi 140N.
5. Once the repairs are complete, the sump pump can be removed if installed, and backfilled with stone.

### Comments

Comment	Log Date	Log Time
Based on our observations and test results, we recommend the following: Undercut the footings an additional 2 feet below planned bottom of footings. A permanent french drain will also need to be installed throughout the building pad to exit below the bottom of the footings elevation. The tail drain must daylight away from the foundation. Once this is accomplished, replace the undercut with washed NCDOT #57 stone wrapped in filter fabric such as Mirafi 140N.	02/13/2024	09:02:42

*Rachael Heath*

Reviewed By

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Monitoring:	<b>DCP</b>		

### Photographs

Picture ID	Location
74750	
74756	



*Rachael Heath*

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Monitoring:	<b>DCP</b>		

### Photographs

Picture ID	
74757	
74758	

*Rachael Heath*

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