JMS Builders Group
1330 Lane Rd
Dunn, NC 28334

03/17/2021

Attention : Jeremy Strickland

RE: Daily Field Report for 03/10/2021
102 Morgan Street (CMT) Erwin, NC
Building & Earth Project No : RD210171

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-Crawl space — For Information Only

Comment 1 : Based on our observations and test results, we recommend the following: 1. Undercut the perimeter and interior footings an additional 2 feet from the bottom of the footings. 2. Install a tail drain to remove water from the foundation to drain to the lowest point. 3. Replace with washed NCDOT #57, wrapping 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-1

NORTH CAROLINA PROFESSIONAL SEAL 024482 ENGINEER KURT A. MILLER

610 Spring Branch Road
Dunn, NC 28334
Phone 910-292-2085 Fax 910-292-2192
www.BuildingandEarth.com

Rachael Heath
Reviewed By

Field Observations Report

Project Name:	**102 Morgan Street (CMT) Erwin, NC**	Project Number:	**RD210171**
Client Name:	**JMS Builders Group**	Placement#:	**FO-1**
Contractor:	**JMS Builders Group**	Technician:	**Frank Hamlin**
Monitoring:	**Shallow Footing Testing**		

1 : Foundation Inspection-Crawl space

We arrived onsite to evaluate the building pad area for this residential lot. We understand the residence has been designed to be supported on a crawl space foundation. Upon arrival, the contractor had not finished excavating the footings. Our evaluation as documented in this report includes:

1) A visual description of the residential lot
2) Comments on any improvements that hat 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 is generally slopes downward from back to front. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 2 feet. Surface water runoff appears to drain to drainage ditch at the street.

Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 8 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. Based on our observations, we understand the pad has been cut according to the following:

Section----------Thickness of Fill
Left Front----------0 inches of fill
Left Rear----------0 inches of fill
Center----------0 inches of fill
Right Front----------0 inches of fill
Right Rear----------0 inches of fill

Measurements:
1) How far is the nearest slope from the edge of the foundation? 30'

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 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 24 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: [Back Right Corner]

-- Depth----"N"------Soil Color---USCS--------

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--- BOF ---- 1 ---- Orangish tan -- SM --------Water
--- -1' ------ XX ----- Light Tan ---- wash stone ---------
--- -2' ------ 1 ------ Orange ----- SM -----
--- -3' ------Auger refusal - natural rocks in soil

Test 2: [Front Left Corner]

-- Depth----"N"------Soil Color---USCS-------
--- BOF ---- 2 ---- orangish tan -- SM --------
--- -1' ------ 4 ----- Light Tan ---- SM --------- Water
--- -2' ------ 13 ----- Orange ------ SC -----
--- -3' ------ Auger refusal - natural rocks in soil

Test 3: [Interior Column Front right]

-- Depth----"N"------Soil Color---USCS--------
--- BOF ---- 2 ---- Orangish tan -- SM --------
--- -1' ----- 5 ----- Light Tan ----- SM --------- Water
--- -2' ----- 13 ------ Orange ------ SC -----
--- -3' ----- Auger refusal - natural rocks in soil

Based on our observations and test results, we recommend the following:

1. Undercut the perimeter and interior footings an additional 2 feet from the bottom of the footings.
2. Install a tail drain to remove water from the foundation to drain to the lowest point.
3. Replace with washed NCDOT #57, wrapping in filter fabric such as Mirafi 140N.

Once the repairs are completed, bearing capacity of 2,000 psf will be available. Confirmation of repairs will need to be re-inspected by either the building inspector or a representative of Building and Earth Sciences.

To minimize the potential for future softening of the bearing materials due to water infiltration, the surface soils should be protected from construction traffic and inclement weather. The construction of the footings and structure should commence without delay. In the event that the subgrade soils become wet, or otherwise compromised from their current condition, should be observed and retested as necessary by Building and Earth Sciences.

We note that our testing was isolated to the upper 3 feet of the soil profile from the finished subgrade elevation as observed on this date. As such, we cannot be aware of any soil or groundwater conditions below this depth that could adversely affect the support of the new construction. If additional information is required, please contact our office.

Comments

Comment	Log Date	Log Time
Based on our observations and test results, we recommend the following: 1. Undercut the perimeter and interior footings an additional 2 feet from the bottom of the footings. 2. Install	03/11/2021	10:44:12

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