

On-site Homes, LLC  
2931 Breezewood Ave  
Suite 202  
Fayetteville, NC 28303

02/10/2025

Attention : Chris Greene  
David Sigmon  
Travina Love

**RE:** Daily Field Report for 02/08/2025  
228 Dove Road (CMT) Cameron, NC  
Building & Earth Project No : RD250059

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 Passed
- Project Management Review Passed

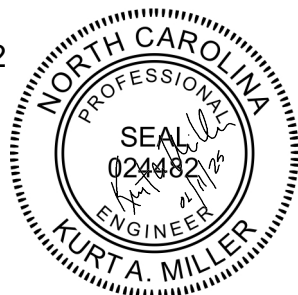
**ST-2** : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTM D1556, using values from the laboratory proctors. One(1) in-place field density test was performed on this date. The testing results indicate 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-2, ST-2



*Rachael Heath*

Reviewed By

## Field Observations Report

|               |  |                 |                     |
|---------------|--|-----------------|---------------------|
| Project Name: | <b>228 Dove Road (CMT) Cameron, NC</b> | Project Number: | <b>RD250059</b>     |
| Client Name:  | <b>On-site Homes, LLC</b>              | Placement#:     | <b>FO-2</b>         |
| Contractor:   | <b>On-site Homes, LLC</b>              | Technician:     | <b>Megan Tilley</b> |
| Monitoring:   | <b>Shallow Foundation Inspection</b>   |                 |                     |

### 1 : Foundation Inspection

Passed

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 monolithic slab 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 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 relatively flat. The site slopes downward from back to front. Building locations are referenced in cardinal directions. Maximum relief across the lot is approximately 1 foot. Surface water runoff appears to drain towards the road.

#### Comments on Improvements:

The site has been stripped of surface cover and topsoil. It appears that 36 inches of topsoil has been removed from the rear building pad area.

Structural fill has been placed at the site to level the building pad. Based on our observations, we understand the pad has been filled according to the following:

| Section-----     | Thickness of Fill |
|------------------|-------------------|
| Left Front-----  | 12 inches of fill |
| Left Rear-----   | 36 inches of fill |
| Center-----      | 36 inches of fill |
| Right Front----- | 12 inches of fill |
| Right Rear-----  | 36 inches of fill |

#### Measurements:

- 1) How far is the nearest slope from the edge of the foundation? 20 feet

#### 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 0.5 - 1.0 inches.

DCP Testing: Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at one representative locations to a depth of 48 inches. Our representative did not 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: [NW Corner: N 1.0 ft, W 20.0 ft]

## Field Observations Report

|  |                                 |
|--|---------------------------------|
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| Monitoring: <b>Shallow Foundation Inspection</b>     |                                 |

```

---Depth----"N"-----Soil Color-----USCS-----
--- FSG ----15+ ---- Reddish Brown ----- SM -----
--- -1' ---- 15+ ---- Reddish Brown ----- SM -----
--- -2' ---- 13 ---- Reddish Brown ----- SM -----
--- -3' ---- 15+ ---- Reddish Brown ----- SM -----
--- -4' ---- 15+ ---- Reddish Brown ----- SM -----
    
```

**Results:**

Based on our observations and test results, the newly placed fill/existing soils appear to be suitable to provide support for the floor slab and footings, provided the floor slab has a loading of less than 150 pounds per square foot, and the footings have a design bearing capacity of 2,000, or less.

**Recommendations:**

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 4.0 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.

**2 : Project Management Review**

Passed

On this date, our representatives returned to the site for re-testing. Based upon our re-testing, the recommended repairs have been accomplished, and the building pad is now acceptable for the construction of the foundations.

Additionally, inclement weather (rain or snow), as well as construction traffic across the pad, can compromise the stability and support characteristics of the surface soils. If the surface soils become compromised, it will be necessary to return to the site for re-testing. This decision should be executed by your onsite Quality Control and Superintendents.


*Rachael Heath*

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| Monitoring: <b>Shallow Foundation Inspection</b>     |                                 |

### Photographs

| Picture ID | Lot Sign  |
|------------|---|
| 101074     |  |

*Rachael Heath*

Reviewed By



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|  |                                 |
|--|---------------------------------|
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| Monitoring: <b>Shallow Foundation Inspection</b>     |                                 |

### Photographs

| Picture ID | SE Corner  |  |
|------------|--|--|
| 101075     |   |  |
| Picture ID | NW Corner  |  |
| 101076     |  |  |

*Rachael Heath*

Reviewed By



**ST-2**

Test Date: 02/08/2025  
 Field Technician: Megan Tilley  
 Tests requested by: N/R  
 Results provided to: N/R

**Report of Field Density Testing**

Project Name: 228 Dove Road (CMT) Cameron, NC      Ambient Temperature: 43-57  
 Project Number: RD250059      Weather: Partly Cloudy  
 Project Location: Cameron, NC      Wind Conditions: Breezy  
 Client: On-site Homes, LLC      Results Provided To: N/R  
 Contractor: On-site Homes, LLC      Superintendent: N/R

- Notes:
- 1 Test location by technician
  - 2 Elevation by Technician
  - 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    |                         |             | 108.1                     | 13.5%                        |

**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 :<br>NW Corner<br>: |                  | FSG        | 109.6            | 14.2       | 100+         | PASS   |

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

*Rachael Heath*

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