

-----  
ADDRESS : 244 HEATHERWOOD DR SUBDIV: OAKMONT PH 2 SECT 1 30LTS  
CONTRACTOR : GML DEVELOPMENT INC PHONE : (919) 793-5237  
OWNER : OAKMONT DEV PTNRS LLC PHONE :  
PARCEL : 03-9589-01- -1021- -20-  
APPL NUMBER: 17-50040842 CP NEW RESIDENTIAL (SFD)  
DIRECTIONS : T/S: 02/28/2017 10:47 AM JBROCK ----  
OAKMONT OFF OF DOCS RD - LOT 187  
-----

**STRUCTURE: 000 000 38X64 4BDR MONO W/ GARAGE**

FLOOD ZONE : FLOOD ZONE X  
# BEDROOMS : 4000000.00 PROPOSED USE : SFD  
SEPTIC - EXISTING? : NEW TANK WATER SUPPLY : COUNTY  
-----

**PERMIT: CPSF 00 CP \* SFD**

TYP/SQ	REQUESTED COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
A814 01	5/03/17 5/03/17	SB AP	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002967479 244 HEATHERWOOD DR LILLINGTON 27546 T/S: 05/03/2017 12:08 PM SBENNETT -----
E207 01	5/03/17 5/03/17	JH AP	R*ELEC TEMP SERVICE POLE TIME: 17:00 VRU #: 002967487 T/S: 05/02/2017 03:04 PM JBROCK -----
P309 01	5/11/17 5/11/17	JH AP	R*PLUMB UNDER SLAB TIME: 17:00 VRU #: 002971075 T/S: 05/10/2017 02:12 PM JBROCK -----
B114 01	5/31/17	TI	R*BLDG MONO SLAB/TEMP SVC POLE VRU #: 002978294

*[Handwritten signature]*

----- COMMENTS AND NOTES -----

# VIOLATION NOTICE

## DO NOT REMOVE!

### Harnett County Inspection Department

108 East Front Street • P.O. Box 65

Lillington, NC 27546

Phone: (910) 893-7525 Ext. 1 • Fax: (910) 893-2793

Job Name: \_\_\_\_\_ Date: 5/31/17

Address: \_\_\_\_\_

Lot No.: \_\_\_\_\_ Permit No.: 500 40842

( Check Box for Violation )

- |                                     |                                     |                                  |  |                                     |                                       |                                 |                                      |
|-------------------------------------|-------------------------------------|----------------------------------|--|-------------------------------------|---------------------------------------|---------------------------------|--------------------------------------|
| <input type="checkbox"/> Footing    | <input type="checkbox"/> Foundation | <input type="checkbox"/> Bldg.   | <input type="checkbox"/> Elec.             | <input type="checkbox"/> Plumb.     | <input type="checkbox"/> Mech.        | <input type="checkbox"/> Insul. | <input type="checkbox"/> Floor Fram. |
| <input type="checkbox"/> Floor Slab | <input type="checkbox"/> MFG. Home  | <input type="checkbox"/> Modular | <input type="checkbox"/> Damp/Water Proof. | <input type="checkbox"/> Structural | <input type="checkbox"/> Wall Sheath. | <input type="checkbox"/> Other  |                                      |

Violations Found: \_\_\_\_\_

*Rebar not installed per eng design  
missing rebar each side*

Code Enforcement Official

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

It is unlawful for any subcontractor, general contractor, or owner to cover or cause to be covered any part of the work with flooring, sheetrock, earth or other material until the proper inspector had ample time to approve the installation

McKee Homes  
101 Hay Street, 2nd Floor  
Fayetteville, NC 28301

05/30/2017

**RE:** Daily Field Report for 05/30/2017  
Lot 187 Oakmont Subdivision (CMT) Lillington, NC  
Building & Earth Project No : RD170269

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.  
• Project Management Review

Passed

**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 187 Oakmont Subdivision (CMT) Lillington, NC</b>	Project Number:	<b>RD170269</b>
Client Name:	<b>McKee Homes</b>	Placement#:	<b>FO-2</b>
Contractor:		Technician:	<b>Rachael Heath</b>
Monitoring:			

### 1 : Project Management Review

Passed

On this date, our representatives observed repairs within the footings at the front left corner of the building. Based upon our observations, the recommended repairs have been accomplished, and the building pad is now acceptable for the placement of concrete.

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.

McKee Homes  
101 Hay Street, 2nd Floor  
Fayetteville, NC 28301

05/30/2017

**RE:** Daily Field Report for 05/16/2017  
Lot 187 Oakmont Subdivision (CMT) Lillington, NC  
Building & Earth Project No : RD170269

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.

• DCPs and Hand Augers

For Information Only

Comment 1 : Based on our testing results, we recommend undercutting the front left corner footings an additional 2 feet. The undercut should extend halfway towards the back and right side of the building pad. Replace the undercut with washed NCDOT #57 stone. If water is encountered, wrap the stone in filter fabric such as Mirafi 140N.

**ST-1 :** 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 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



*Rachael Heath*  
Reviewed By

## Field Observations Report

Project Name: **Lot 187 Oakmont Subdivision (CMT)**  
Lillington, NC  
Project Number: **RD170269**  
Client Name: **McKee Homes**  
Placement#: **FO-1**  
Contractor: **McKee Homes**  
Technician: **James Johnson**  
Monitoring: **DCP**

### 1 : DCPs and Hand Augers

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 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 right to left. Building locations are referenced from the street looking at the front of the residence. Maximum relief across the lot is approximately 4 feet. Surface water runoff appears to drain to the left of the lot.

#### Comments on Improvements:

The site has been stripped. It appears that 8 to 10 inches of topsoil has been removed from the 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 Cut or Fill
Left Front-----	12 inches of fill
Left Rear-----	24 inches of fill
Center-----	12 inches of fill
Right Front-----	12 inches of cut
Right Rear-----	12 inches of cut

#### 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 4-6 inches. Our representative did not observe standing water or evidence of standing water on the footing's bearing surface.

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. On the right front and back.

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

#### Test 1: [Right Front]

-- Depth----"N"-----Soil Color---USCS-----  
-- ESG -- 6.5 --- Brown --- SM -----

## Field Observations Report

Project Name: **Lot 187 Oakmont Subdivision (CMT)**  
**Lillington, NC**  
Client Name: **McKee Homes**  
Contractor: **McKee Homes**  
Monitoring: **DCP**  
Project Number: **RD170269**  
Placement#: **FO-1**  
Technician: **James Johnson**

-- 1' --- 7 --- Orange ---- SC/SM -----  
-- 2' --- 15 --- Orange ----- SC/SM --  
-- 3' --- 15 --- Orange ----- SC/SM ----

### Test 2: [Right Rear]

-- Depth---"N"-----Soil Color---USCS-----  
-- ESG -- 8 --- Tan --- SM -----  
-- 1' --- 9.5 --- Tan ---- SM -----  
-- 2' --- 12.5 --- Tan ----- SM ----  
-- 3' --- 15 --- Tan ----- SM ----

### Test 3: [Left Rear]

-- Depth---"N"-----Soil Color---USCS-----  
-- ESG -- 6.5 --- Tan --- SM -----  
-- 1' --- 7 --- Orange SC/SM -----  
-- 2' --- 7 --- Orange -SC, Gray- SC/SM ----  
-- 3' --- 7.5 --- Tan ----- SM ----

### Test 4: [Left Front ]

-- Depth---"N"-----Soil Color---USCS-----  
-- ESG -- 6 --- Tan --- SM -----  
-- 1' --- 7 --- Gray ---- SM -----  
-- 2' --- 5 --- Tan ----- SM ----  
-- 3' --- 7.5 --- Tan ----- SM ----

### Soil Density Testing:

Soil density testing was performed using the sand cone method of compaction in general accordance with ASTM D1556. The results of our tests are attached as ST-1.

### Results:

Based on our testing results, we recommend undercutting the front left corner footings an additional 2 feet. The undercut should extend halfway towards the back and right side of the building pad. Replace the undercut with washed NCDOT #57 stone. If water is encountered, wrap the stone in filter fabric such as Mirafi 140N.

### 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

## Field Observations Report

Project Name:	<b>Lot 187 Oakmont Subdivision (CMT) Lillington, NC</b>	Project Number:	<b>RD170269</b>
Client Name:	<b>McKee Homes</b>	Placement#:	<b>FO-1</b>
Contractor:	<b>McKee Homes</b>	Technician:	<b>James Johnson</b>
Monitoring:	<b>DCP</b>		

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 testing results, we recommend undercutting the front left corner footings an additional 2 feet. The undercut should extend halfway towards the back and right side of the building pad. Replace the undercut with washed NCDOT #57 stone. If water is encountered, wrap the stone in filter fabric such as Mirafi 140N.	05/17/2017	10:06:26





**ST-1**

Test Date: 05/16/2017  
 Field Technician: James Johnson  
 Tests requested by: N/R  
 Results provided to: N/R

**Report of Field Density Testing**

Project Name: Lot 187 Oakmont Subdivision (CMT)      Ambient Temperature: >90  
 Lillington, NC  
 Project Number: RD170269      Weather: Clear  
 Project Location: Lillington, NC      Wind Conditions: Calm  
 Client: McKee Homes      Results Provided To: N/R  
 Contractor:      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			110.0	11.5%

**Density Test Data**

Test #	IDs		Test Type	Location	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor							
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Lot 187 Front Right Corner :	FSG	105.9	5.3	96%	PASS

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

*Rachael Heath*  
 Reviewed By