ADDRESS . : 85 DOT CT
CONTRACTOR : ROYAL OAKS BUILDING GROUP LLC
OWNER . . : ROYAL OAKS BUILDING GROUP
PARCEL . . : 04-0664- - -0020- -47-
APPL NUMBER: 17-50040983 CP NEW RESIDENTIAL (SFD)
DIRECTIONS : T/S: 03/21/2017 08:39 AM JBROCK ----
ATKINS VILLAGE #45

SUBDIV: ATKINS VILLAGE PH 3
PHONE : (919) 233-3886
PHONE :

STRUCTURE: 000 000 45X67 3BDR CRAWL W/ GARAGE & DECK
FLOOD ZONE . . . . : FLOOD ZONE X
BEDROOMS . . . . . : 3.00
SEPTIC - EXISTING? . . . . : NEW TANK
PROPOSED USE . . . . . : SFD
WATER SUPPLY . . . . . : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED / COMPLETED	INSP RESULT	DESCRIPTION RESULTS/COMMENTS
A814 01	6/21/17	TI	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002987469 T/S: 06/20/2017 02:16 PM JBROCK ----------
B101 01	6/21/17	TI	R*BLDG FOOTING / TEMP SVC POLE TIME: 17:00 VRU #: 002987477 T/S: 06/20/2017 02:16 PM JBROCK ----------
B103 01	6/21/17 6-21-17	TI APB	R*BLDG FOUND & TEMP SVC POLE TIME: 17:00 VRU #: 002987485 T/S: 06/20/2017 02:16 PM JBROCK ----------

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

TERRATECH
ENGINEERS • INC
Geotechnical Engineering
Environmental Consulting
Construction Materials Testing

June 7, 2017

Mr. Rich Sherman
Royal Oaks Homes
rsherman@royaloakshomes.com

Report of Observations
Atkins Village North, Lot 45
Fuquay Varina, North Carolina
Our Project Number 121-15-78801

Gentlemen:

As requested, a representative of TerraTech Engineers, Inc. was present at the above referenced site on June 5, 2017 to perform testing on the crawl space footing excavations for the proposed residential home located in the area of Lot #45. The purpose of our testing was to verify that the design soil bearing pressure is available for the concrete foundations. We understand that an allowable soil bearing pressure of 2,000 pounds per square foot (psf) is required. Our services did not include surveying. Locations are based on the excavations performed by others.

Our field examinations consisted of visual observations, dynamic cone penetrometer testing in accordance with ASTM STP-399, and hand rod probing at selected locations. Dynamic cone penetrometer testing was performed at select locations and to a maximum depth of 4 feet below the over-excavated foundation bearing elevation. Our scope did not include mechanically drilled soil test borings to evaluate deeper subsurface soil conditions that could affect foundation support. Such services can be provided, if desired.

During our site visit, soft, wet soils were observed to a depth of approximately 1 foot below the planned foundation bearing elevation. We recommended that the soft, wet materials be removed from the footing excavation. We were informed by the contractor that the footing excavations would be backfilled with consolidated #57 washed stone to re-establish the foundation bearing elevation. After these remedial measures were performed and prior to placement of #57 washed stone, the results of our footing examinations indicated that an allowable bearing capacity of 2,000 pounds per square foot (psf) was available at the locations and depths tested at the time of our investigation. Additionally, the foundation dimension met the plan minimum requirements.

Exposure to the environment, especially rainfall, may weaken the soils beneath the foundation bearing surface, if they are exposed for extended periods of time prior to concrete placement. If the over-excavated soils beneath the foundation bearing surface become softened due to exposure, the soft soils should be compacted or removed and replaced prior to placement of washed stone and concrete.

If you have any questions concerning this information, please do not hesitate to call.

Sincerely,
TerraTech Engineers, Inc. (C-1356)

Thomas O. Helms, P.E.
Project Engineer

NORTH CAROLINA PROFESSIONAL SEAL 043806 6-7-17 ENGINEER THOMAS O. HELMS

TOH/sk

cc: rsargent@royaloakshomes.com

Christopher S. Pilz, P.E.
Principal Geotechnical Engineer