



ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

March 4, 2025

Mr. Josh Maddox
Maddox Concrete
120 Maddox Farm Rd.
Sanford, NC 27332

RE: Fill Density Testing
NC Wake Boat
143 Holly Springs Church Rd.
Broadway, NC

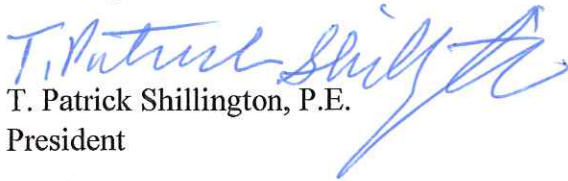
Dear Mr. Maddox:

On February 26, 2025, a technical representative of Engineering & Environmental Science Company (E²S) conducted three (3) density tests on the pads at the above referenced site.

Attachment A shows the locations of the density tests and Attachment B provides the density test data. Soil density tests ranged from 95.4% to 100.3% of Standard Proctor Maximum Dry Density (ASTM-D-698) at the locations and depths tested. The fill density test results meet the 95% compaction requirements.

We appreciate serving you on this project. Please contact us if you have any questions.

Sincerely,

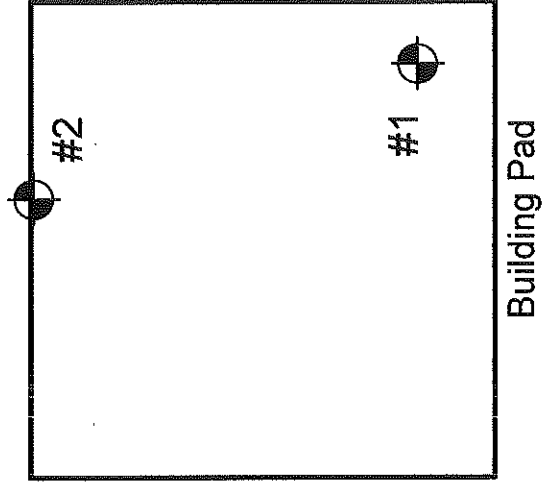
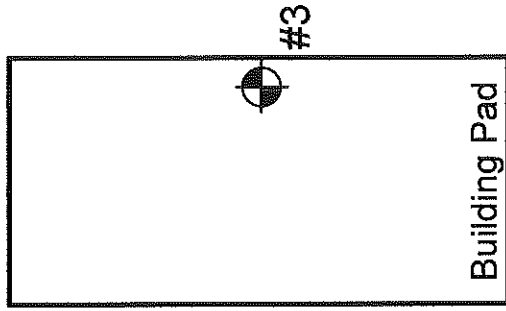

T. Patrick Shillington, P.E.
President

Attachment A: Density Test Locations
Attachment B: Density Test Results



ATTACHMENT A: Density Test Locations

Holly Springs Church Rd.



Not To Scale



ENGINEERING & ENVIRONMENTAL
SCIENCE COMPANY
3008 ANDERSON DR., SUITE 102
RALEIGH, NORTH CAROLINA 27609
(919) 781-7798

Density Test Locations
NC Wake Boat
143 Holly Springs Church Rd.
Broadway, NC

DATE:
02/28/25

FIGURE NO.
1

Attachment B: Density Tests Results

Summary of Density Test Results
NC Wake Boat
143 Holly Springs Church Rd.
Broadway, NC

TEST NO.	DATE SAMPLED	LOCATION	SAMPLE ELEV., FT.	(1)MAX LAB DRY DEN., PCF	(2)IN-PLACE WET DEN., PCF	(2)WATER CONTENT	(2)IN-PLACE DRY DEN.,PCF	PERCENT COMPACTION
1	02/26/25	See Drawing	Subgrade	116.9	132.6	18.9	111.5	95.4
2	02/26/25	See Drawing	-0.5	116.9	133.8	14.1	117.3	100.3
3	2/26/25	See Drawing	Subgrade	116.9	132.2	18.2	111.9	95.7

(1) Standard Proctor (ASTM D-698)

(2) Tests were conducted by the Push Tube Method (ASTM D-2937)

ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

MOISTURE DENSITY RELATIONSHIP

Job No. _____ Date 02/28/25

Project Name and Location Building Pad, NC Wake Boat

143 Holly Springs Church Rd., Broadway, NC

Source of Material _____

Description of Material _____

Maroon, Brown & Minor Gray clayey SAND (SC)

Material Designation _____

Test Method ASTM D-698

TEST RESULTS

Maximum Dry Density 116.9 PCF

Optimum Water Content 13.5 %

CURVES OF 100% SATURATION
FOR SPECIFIC GRAVITY EQUAL TO:

2.80

2.70

2.60

