

compressive strength. Unconfined compressive strength values of 3610, 4470, and 7990 psi were measured for the samples, respectively.

Groundwater:

After completion of each boring, temporary piezometers (slotted PVC pipe) were installed in the boreholes. Piezometers were used to measure stabilized groundwater levels at least 24 hours after the completion of drilling. Groundwater elevations range between 434 and 430 feet. Due to the existing creek, groundwater elevations will be near the water level of the creek.

Notes to the Designer:

Boulders and cobbles are present in borings EB1-A and B2-B. In EB1-A, the boulders and cobbles extend to an elevation of 429 feet. The alluvial cobbles in B2-B are present to elevation 428 feet. The boulders and cobbles have nominal diameters ranging between 3 and 12 inches.

Closure:

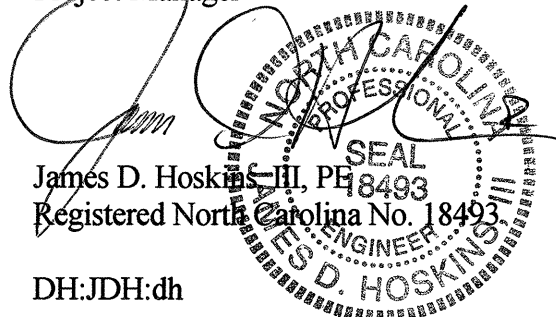
The geotechnical foundation investigation is based on the Bridge Survey and Hydraulic Design Report dated August 2003. If any significant changes are made in the design or location of the proposed structure, the subsurface information will have to be reviewed and modified as necessary. For soil descriptions and general stratification at a particular boring location, the respective Boring Log should be reviewed. Cross-sections and profiles are a generalized interpretation of soil conditions between borings and should not be considered accurate other than at the boring locations. Subsurface conditions between boring locations or elsewhere on the site may vary, and subsurface anomalies may exist which were not detected.

Geoscience Group, Inc. appreciates the opportunity to be of service to the NCDOT on this project. Should you have any questions concerning this report, please feel free to contact the undersigned.

Respectfully,
 GEOSCIENCE GROUP, INC.



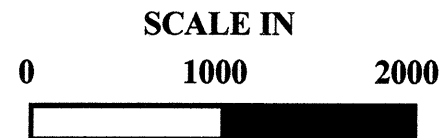
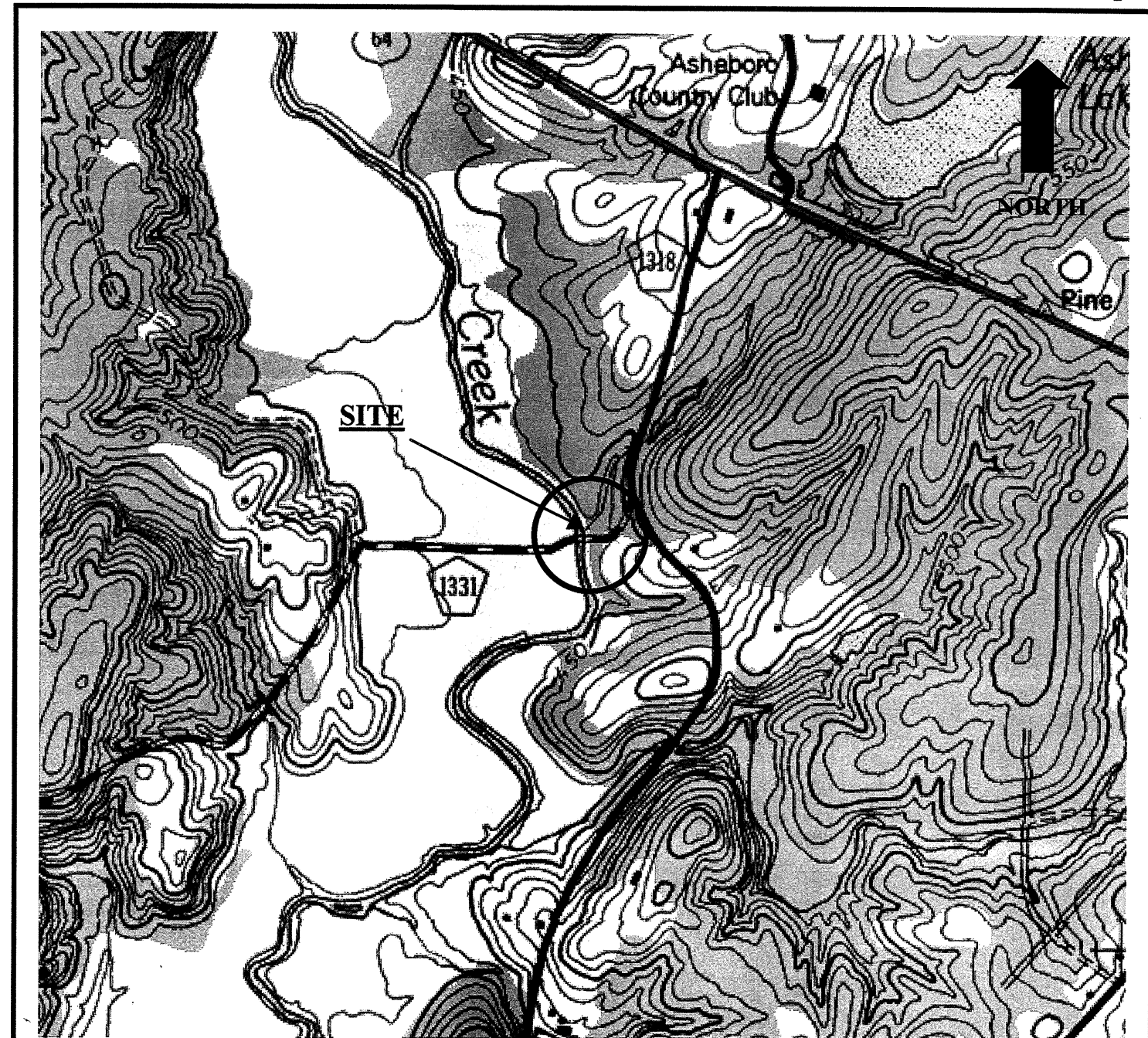
Dean Hardister, PE
 Project Manager




James D. Hoskins, III, PE
 Registered North Carolina No. 18493

DH:JDH:dh

Enclosures



GEOSCIENCE GROUP, INC. GREENSBORO, NORTH CAROLINA		
SCALE: ±1" = 1000'	APPROVED BY: 	DRAWN BY: DH
DATE: 12/22/03		REVISED:
Bridge 363 over Caraway Creek on SR 1331 Randolph County, North Carolina		
8.2572301 (B-3504) SITE VICINITY MAP		DRAWING NUMBER 1