

MEMORANDUM

To: Mr. C. S. Moase,
Manager,
Special Services Section.

From: Mr. A. G. Stermac,
Principal Foundation Engr.,
Foundation Section,
Materials & Research Division.

Date: December 6, 1963

Our File Ref.

In Reply To

SUBJECT:

FOUNDATION INVESTIGATION REPORT
For

Avonmore D.H.O. Patrol Yard,
Lot 22, Con. II, Twp. of Finch
Hwy. 43, District 9
W.J. 63-F-123 -- W.P. (Nil)

At the request of the Special Services Section, in a memo dated September 18, 1963, a subsoil investigation was carried out at this site.

The investigation was carried out by drilling three sampled boreholes. The subsoil stratigraphy was found to consist of clayey silt with gravel (glacial till). The intersected layer was found to be in a dense to very dense state.

The observed water level in the boreholes was 3.5 ft. below the existing ground level.

At the above-mentioned garage site, a new well has been installed. The depth of the well is about 67 ft. below the ground, while the existing water level in the well was at 4 ft. below the ground. The nearest farm is about one mile to the West where a shallow well of 27 ft. deep is being used.

At present, a standard salt shed exists at the site with a sand and gravel pile beside it.

December 6, 1963

The proposed garage at this site can be supported on spread footings with a safe bearing pressure of up to 4 t.s.f. The footings should be placed as near to the surface as the local frost conditions can allow.

The following recommendations are given by Mr. J. E. Gruspier, Regional Materials Engineer, Kingston:

a) The area in front of the five-bay garage and the entrance to this area should be graded to allow for 18" granular material, to consist of 6" of G.B.C. Class 'A' over Sand Cushion.

b) In order to provide for an adequate depth of G.B.C. Class 'A' over the present roadway from Hwy. 43 to the salt shed, an additional 3" minimum of G.B.C. Class 'A' are required.

c) A 2" thickness of HL-6 is recommended for all paved areas as binder course, with $1\frac{1}{2}$ " thickness of HL-3 as surface course.

The field work was carried out during October 22 - 24, 1963, under the supervision of Mr. V. Korlu, Project Foundation Engineer, who also wrote this report, which was reviewed by Mr. M. Devata, Senior Foundation Engineer.

We believe that you will find the factual data and recommendations contained therein, adequate for your future design work. Should further information be required, please feel free to call on our Office.

VK/MdeF
Attach.

cc: Messrs. C. S. Moase (4)
E. J. Orr
H. D. McMillan
L. E. Walker
J. E. Gruspier
A. Watt
Foundations Office
Gen. Files

K. Y. Lo,
SUPERVISING FOUNDATION ENGR.
For:
A. G. Stermac,
PRINCIPAL FOUNDATION ENGR.

APPENDIX I.

#63-F-123

HWY #43

AVONMORE

PATROL YARD

