

DOCUMENT MICROFILMING IDENTIFICATION

GEOCRES No. 31 L - 37

W.P. No. \_\_\_\_\_

CONT. No. \_\_\_\_\_

W. O. No. \_\_\_\_\_

STR. SITE No. 43 S - 115

HWY. No. 17 , DIST. 13

LOCATION SPARKES CREEK  
CROSSING

OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT.

NONE

REMARKS: \_\_\_\_\_

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\_\_\_\_\_

15-5  
TROW, SODERMAN AND ASSOCIATES

SITE INVESTIGATIONS  
AND  
SOIL MECHANICS CONSULTATION

BA 733

31 L - 37  
GEOCREC No.

W. A. TROW, M.A.S.C., M.E.I.C., P.ENG.  
L. G. SODERMAN, B.S.C., D.I.C., P.ENG.

884 WILSON AVE., DOWNSVIEW  
ST. 9-5921

Project: C108/J200

April 29, 1958.

Mr. A. M. Toye,  
Bridge Engineer,  
Dept. of Highways of Ontario,  
280 Davenport Rd.,  
Toronto, Ont.

Attention: Mr. S. McCombie

Foundation Investigation  
Sparkes Creek Crossing,  
Highway #17, District 13.

Dear Sirs:

A boring program carried out to determine the bedrock elevation at the abutment locations of the above noted bridge has been completed. Two boreholes located as shown on the attached plan were made during the period April 14th to 16th, 1958.

Reference to the borehole logs and projected profile prepared, shows that bedrock surface was intersected at elevations 743.2 and 743.6, at holes numbered 1 and 2, respectively. Overburden consisting of medium sand with boulders was encountered at each borehole location. The thickness of this surface layer varies from 4.1 feet at hole number 1, to 7.2 feet at hole number 2.

The bedrock formation is of igneous origin and has been identified as a quartz diorite. With the exception of an indicated shallow zone of surface fragmentation and weathering, (maximum depth of one foot), the bedrock is sound and massive. Preparation for abutment footings should involve only a minor amount of surface scaling of the bedrock.

The footings of the existing abutments have not been subjected to noticeable scouring and apart from surface spalling, the concrete in the abutments appears to be quite sound.

We are pleased to have been of service to you on this occasion and if any queries arise out of data presented in this report, do not hesitate to call.

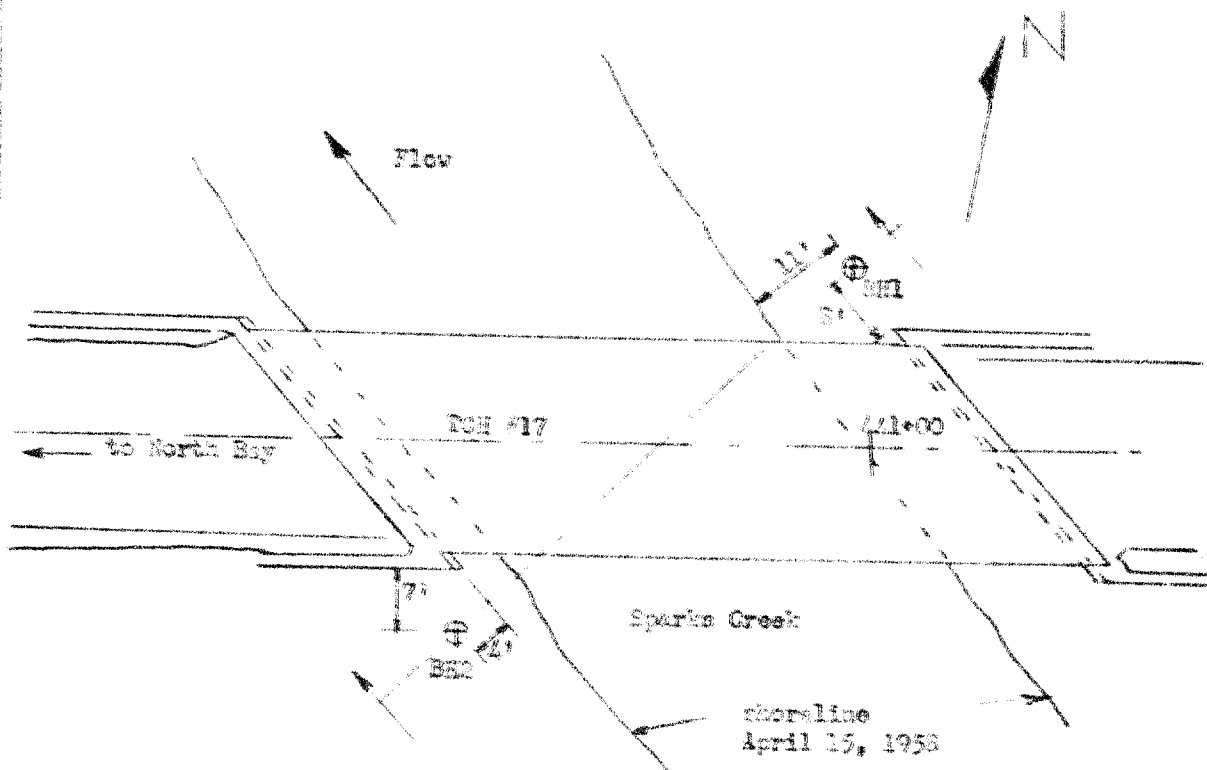
Yours very truly,

*L. G. Soderman*

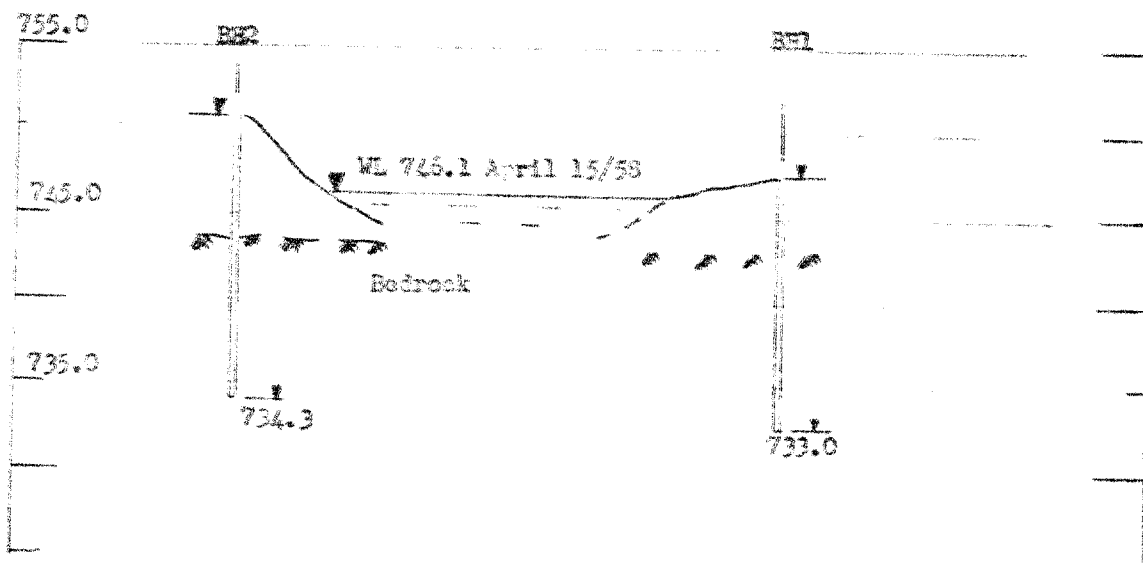
Lawrence G. Soderman (P. Eng.)

lgs/lt  
Encl.





PLAN OF BOREHOLE LOCATIONS



PROJECTED PROFILE THROUGH HOLES 1 & 2

4

Source: *Journal of the American Statistical Association*, 92(439), 1039-1052.

1  
 KP  
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 LS  
 20

2000年12月15日

1. MAX. STRETCH FORCE  
 2. STRETCH FORCE  
 3. STRETCH RATE  
 4. DIA. CORE  
 5. CAPPING  
 6. SEALITY  
 7. COMPRESSION INDEX  
 8. TENSILE STRENGTH (TENSILE)  
 9. TENSILE ELONGATION  
 10. TENSILE MODULUS  
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 191. TENSILE ELONGATION AT 1800%  
 192. TENSILE ELONGATION AT 1

**CONSISTENCY**

NATURAL  
SAMPLE UNIT WT.  
P.C.F.

AIRIST CONCENT - 7000 WT

AXT core size recovered.  
Water table at Elev. 746.3

*Journal of Management Education* 30(6)p.789-804

[illegible]

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 2. 1950年 10月 10日 10月 10日 10月 10日 10月 10日  
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姓名: 王明 性别: 男 年龄: 25 职业: 教师 身份证号: 110101199801010001  
 联系电话: 13801012345 电子邮箱: wangming@example.com

紅粉佳人與黑髮公主

1949年12月15日  
1949年12月15日  
1949年12月15日

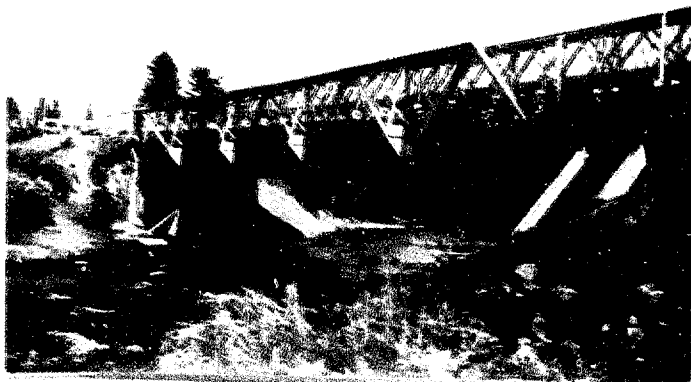
Medium grained brown sand with  
boulders

1 Bedrock surface	743.6
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Bedrock. Sound igneous rock described as quartz diorite. Core recovery 95%. AXT core size.

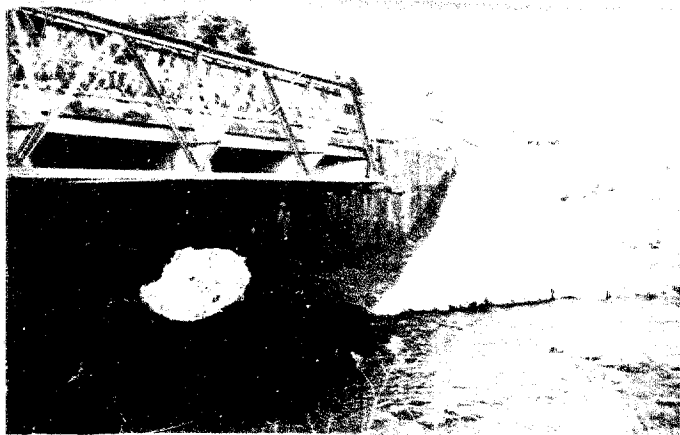
1	End of hole	734.3
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Water table at elev. 747.3



View of Existing  
Structure. Photo  
taken facing upstream.  
East abutment on left.

Photo showing  
upstream side of  
east abutment.



East Abutment. A  
view from downstream  
side.