

#61-F-26

W.P. #209-60

Hwy. #60 E

COOPER LAKE CR.

13.5 MILES W. OF

HUNTSVILLE

Mr. A. M. Toye,

April 24, 1961.

Bridge Engineer.

D.H.O. Foundation Investigation

Materials & Research Section.

(W.P. 209-60) W.J. 61-F-26.

Attention: Mr. S. McCombie.

Re: Cooper Lake Crk and King's Highway #60
(Approx. 13.5 Miles W. of Huntsville)
Twp. of Franklin, District of Muskoka
District #11.

Due to the improvement of Highway #60, it is intended to replace the existing bridge which carries Hwy. #60 over Cooper Lake Creek. The chainage at this point is 244+33 for the new line. It is planned to erect the new bridge on the existing line and to take out the sag of the highway at this point.

In order to determine the soil properties and decide on the type of foundations, an investigation was carried out by this section. The field investigations have been confined to two penetration holes to establish the depth to bedrock.

The elevations as well as the locations (chainages)

cont'd. /2 ...

of the penetration holes, are given on Drawing No. 61-F-26A, attached to this report (Appendix I).

In penetration hole No. 1, the bedrock was located at 7'-6" below ground elevation and in penetration hole No. 2 - 12'-0" below ground elevation. Exposed sound bedrock can be observed in the creek bed.

Taking into consideration the close location of the bedrock to the surface, a barrel arch culvert would be recommended for the new structure.

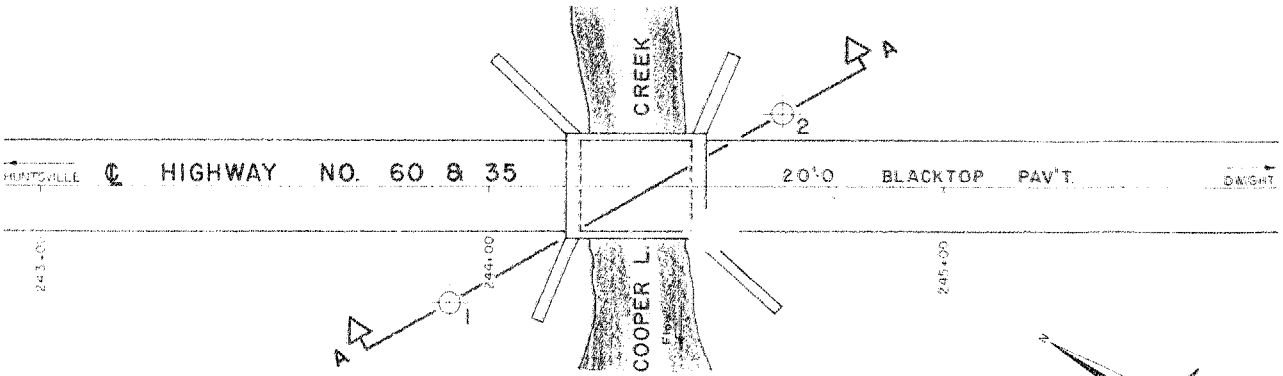
REPORT PREPARED BY: *R. J. Salvas*
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for W. Kulmatickas,
Project Fdn. Engineer

Attach.
WK/tt

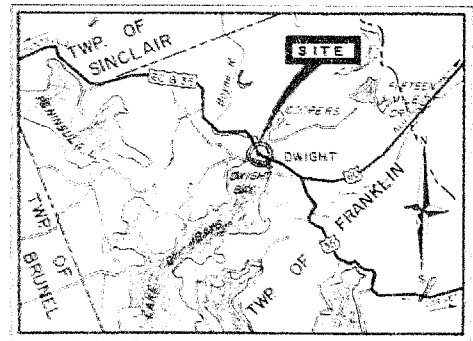
c.c. Messrs. A. M. Toye (2)
H. A. Tregaskes
H. D. McMillan
G. K. Hunter
H. C. Dernier
T. J. Kovich
A. Watt
Foundations Office
General Files ✓

REPORT APPROVED BY: *A. G. Stermac*
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A. G. Stermac,
Supervising Fdn. Engineer

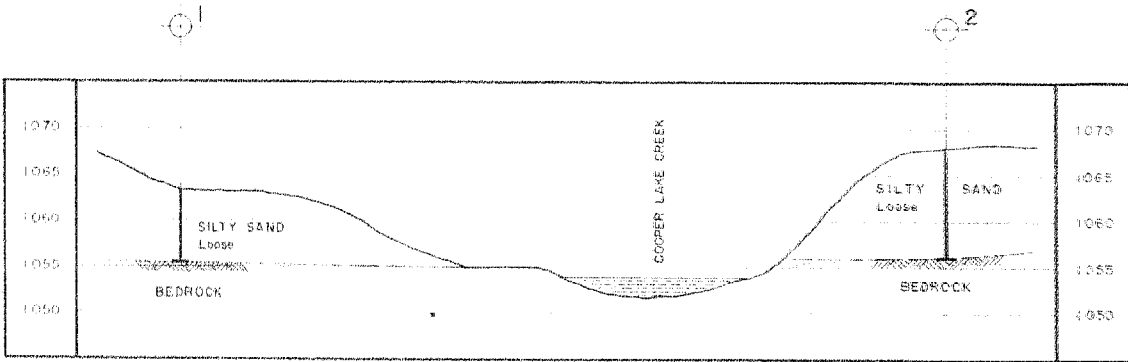
APPENDIX I



PLAN
SCALE 1 in. = 20 ft.



KEY PLAN
SCALE 1 in. = 1 mile



SECTION A-A
SCALE: VERT 1 inch = 10 feet
HORIZ 1 inch = 10 feet

LEGEND			
PENETRATION HOLE			
HOLE NO.	ELEVATION	STATION	DISTANCE FROM C.
1	1063.1	243+00	26' RT
2	1066.0	244+00	15' LT

ORIGINATED BY: NATIONALS DRAWN BY: W. W. FORD CHECKED: <i>PK</i> APPROVED: <i>PK</i> DATE: 4 MAY 1961	DEPARTMENT OF HIGHWAYS - ONTARIO MATERIALS & RESEARCH - SECTION COOPER LAKE CREEK AND HIGHWAY NO. 60 & 35	SCALE AS SHOWN WP NO. 209-100 JOB NO. 61-F-28 DWG. NO. 61-F-26A
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