

#60-F-87

SANDY HOOK RD.

DOCHART CR.

CON. # 7

RENFREW

Mr. A. M. Toye,
Bridge Engineer.

October 27, 1960.

Materials & Research Section.

Attention: Mr. K. L. Kleinsteinber,
Municipal Bridge Liaison Engr.

Re: Township of McNab, Sandy Hook Road,
Dochart Creek, Lot 7, Conc. VII,
Renfrew County. 6-1-67 DMS

In answer to your memorandum dated October 13, 1960, concerning the above noted site, I am enclosing a copy of Mr. R. J. Salvas' report. The report is self-explanatory, but if you have any further questions, please do not hesitate to contact our Office.

LGS/MdeF
Attach.

L. G. Soderman
L. G. Soderman,
PRINCIPAL FOUNDATIONS ENGINEER

cc: Foundations Office
Gen. Files. ✓

62

Mr. L. G. Soderman

Oct. 21, 1960.

Principal Foundation Engr.

60-F-87

R. J. Salvas

Re: Township of McNab Sandy Hook
Road, Dochart Creek Lot 7,
Conc. VII, Renfrew County

The attached letter dated Oct. 13/60 from Mr. K. L. Kleinsteinber will serve as an introduction to this project.

On Oct. 20/60, I arrived at the site with the drilling contractor. Our findings consisting of one dynamic penetration cone and water soundings are attached. The site is underlain by bedrock which outcrops along the south-east bank of the creek. At the actual culvert location there is up to 9 ft. of water over bedrock. The attached note and drawings are self-explanatory. The entire investigation took 6 hrs.

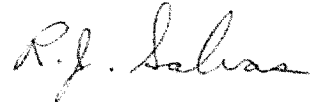
The intention is to place gravel over the bedrock by end dumping from the south end. In this way the water and debris (logs, stumps, branches etc) will be displaced down the creek. There is very little flow in the creek at present and this can be easily diverted around the culvert area. After the gravel has been placed, the multiplate pipe arch will be assembled in its final location. If any recommendations are to be made to Bridge Office, it should be stressed that the gravel fill should be well compacted before starting to assemble the culvert.

A small amount of bedrock and part of the existing bridge abutment has been blasted. If it is found that water is flowing beneath the culvert, it may be necessary

to construct a concrete slab at the upstream end where the water enters the culvert.

On October 21, 1960, Mr. Kleinsteinber was notified of our investigation and findings by telephone.

This letter concludes this work project.



R. J. Salvas
Project Foundation Engr.

Attach.
RJS/tt
c.c.

Foundation files

OFFICE LOCATION -

DOWNSVIEW AVE.,

KEELE ST. - HIGHWAY 401

TORONTO, ONTARIO.



ONTARIO

DEPARTMENT OF HIGHWAYS

60-F-87
POSTAL ADDRESS -

DEPARTMENT OF HIGHWAYS

PARLIAMENT BUILDINGS,

TORONTO 2, ONTARIO.

October 13, 1960.

Memorandum to,
Mr. L. Soderman,
Principal Foundation & Soils Engineer,
Dept. of Highways,
Downsview.

R. Salvas

Re: Township of McNab
Sandy Hook Road,
Dochart Creek
Lot 7, Con. B. Renfrew County.

This is to confirm the conversation between yourself and Mr. Bruce Davis regarding an investigation at this site.

The township proposes installing an Armco Multi-plate Pipe Arch, which has a 21' 6" span with a 15' 0" rise. The proposed gauge is # 5 and the corner pressure on the earth fill is proposed to be 4112 p.s.f.

This proposed pipe arch is beyond all known tables with respect to gauge and span. It is for this reason that we request an investigation by your Section.

We are enclosing a detailed plan of the culvert and a plan-profile of the area. We are also enclosing a location plan for your information.

We would appreciate it if this investigation could be carried out as soon as possible.

K. L. Kleinsteiber

K. L. KLEINSTEIBER
MUNICIPAL BRIDGE LIAISON ENGINEER.

KLK:DW.

Field Boring Log

Date 20 OCT 60

Job No. 60-F-87

W. P. No.

Location DOCKMART CREEK : TWP OF MCNAB, ARNPRIOR, ONT.

F.E. JOHNSTON
Driller L. CROIKSHANK
Hours Work — 6
Hours Delay — 0
FootageBorehole No. _____ Elevation 28.5' Height Datum Above Ground _____
BELOW BRIDGE DECK

Remarks: SOUNDINGS

Depth From	Feet. To	Description	Sample No.	Blows Per Ft.
		Water level — start of day		
		ASSUMING 0+00 TO BE ON E OF CULV. & MOST SOUTHERLY END		
		STA. DEPTH OF WATER I.E. WATER TO BEDROCK.		
		0+00 + 18" SHATTERED ROCK		
		0+19 0		
		0+35 44"		
		0+45 60"		
		0+60 8'-0"		
		0+74 7'-0"		
		0+85 8'-0"		
		0+100 9'-0"		
		BEDROCK OUTCROPS ALONG EAST BANK OF CREEK.		
		Water level — end of day		

MAY 1955

 DEPT. OF HIGHWAYS - ONTARIO
 MATERIALS & RESEARCH SECTION

Field Boring Log

 Date 20 OCT 60
 Job No. 60-F-87
 W.P. No.
 Location

DOCHART CREEK, TWP OF McNAB, ARNPRIOR, ONT.

 F.E. JOHNSTON
 Driller L. CRUICKSHANK
 Hours Work — 6
 Hours Delay — 0
 Footage

 Borehole No. 1 Elevation 25.5' Height Datum Above Ground 0
 BELOW BRIDGE DECK

Remarks: APPROX. STA 5+30 : 77' N. OF E

Depth From	Feet. To	Description	Sample No.	Blows Per Ft.
		Water level — start of day		
		DYNAMIC PENETRATION CONE		
		140 LB HAMMER FALLING 30"		
0	5	9 - 6 - 2 - 21 - 3		
5	10	2 - 5 - 6 - 14 - 14		
10	15	16 - 11 - 20 - 14 - 13		
15	20	21 - 26 - 35 - 45 - 20		
20	25	36 - 45 - 44 - 59 - 84 for 9"		
		HAMMER BOUNCING		
		END OF BH 1 AT 24' 9"		
		MADE 7 ATTEMPTS TO DRIVE		
		BY CASING — TOO MANY BOULDERS		
		IN FILL.		
		Water level — end of day		



ONTARIO
DEPARTMENT OF HIGHWAYS

HARRY KILG
Dist. 28-9

Memo to Mr. L. G. Soderman *Date* Oct. 21, 1960.
Principal Foundation Engr. *Subject* 60-F-87
From R. J. Salvas

Re: Township of McNab Sandy Hook
Road, Dochart Creek Lot 7,
Conc. VII, Renfrew County

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R. J. Salvas
Project Foundation Engr.

Attach.
RJS/tt
c.c. Foundation files

OFFICE LOCATION -
DOWNSVIEW AVE.,
KEELE ST. - HIGHWAY 401
TORONTO, ONTARIO.



ONTARIO
DEPARTMENT OF HIGHWAYS

60-F-87
POSTAL ADDRESS -
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PARLIAMENT BUILDINGS,
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October 13, 1960.

Memorandum to,
Mr. L. Soderman,
Principal Foundation & Soils Engineer,
Dept. of Highways,
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R. Salvas

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Sandy Hook Road,
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K. L. Kleinstreiber

K. L. KLEINSTEIBER
MUNICIPAL BRIDGE LIAISON ENGINEER.

KLK*DW.

*Kleinstreiber
answered
memo
Oct 27 /
1960
report*

DEPT. OF HIGHWAYS ONTARIO
MATERIALS & RESEARCH SECTION

Field Boring Log

Date 20 OCT 60
Job No. 60-F-87
W. P. No.
LocationF.E. JOHNSTON
Driller L. CRUICKSHANK
Hours Work — 6
Hours Delay — 0
Footage

DOCHART CREEK, TWP OF McNAB, ARNPRIOR, ONT.

Borehole No. 1 Elevation 25.5' Height Datum Above Ground 0
BELOW BRIDGE DECK

Remarks: APPROX. STA 5+30 : .77' N. OF E

Depth From	Feet To	Description	Sample No.	Blows Per Ft.
		Water level — start of day		
		DYNAMIC PENETRATION CONE		
		140 LB HAMMER FALLING 30"		
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		BX CASING — TOO MANY BOULDERS		
		IN FILL.		
		Water level — end of day		

Field Boring Log

Date 20 OCT 60
 Job No. 60-F-87
 W.P. No.
 Location DOCKART CREEK 1 TWP OF MCNAB, ARNPRIOR, ONT.

F.E. JOHNSTON
 Driller L. CROIKSHANK
 Hours Work 6
 Hours Delay 0
 Footage

Borehole No. _____ Elevation 28.5' Height Datum Above Ground _____
BELOW BRIDGE DECK

Remarks: SOUNDINGS

Depth From	Feet To	Description	Sample No.	Blows Per Ft.
		Water level - start of day		
		ASSUMING 0+00 TO BE ON E OF CULV. & MOST SOUTHERLY END		
		STA. DEPTH OF WATER i.e. WATER TO BEDROCK.		
		0+00 + 18" SHATTERED ROCK		
		0+19 0		
		0+35 44"		
		0+45 60"		
		0+60 8'-0"		
		0+74 7'-0"		
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		BEDROCK OUTCROPS ALONG EAST BANK OF CREEK.		
		Water level - end of day		

TOWN OF ARNPRIOR

60-F-87
DISTRICT NO. 3

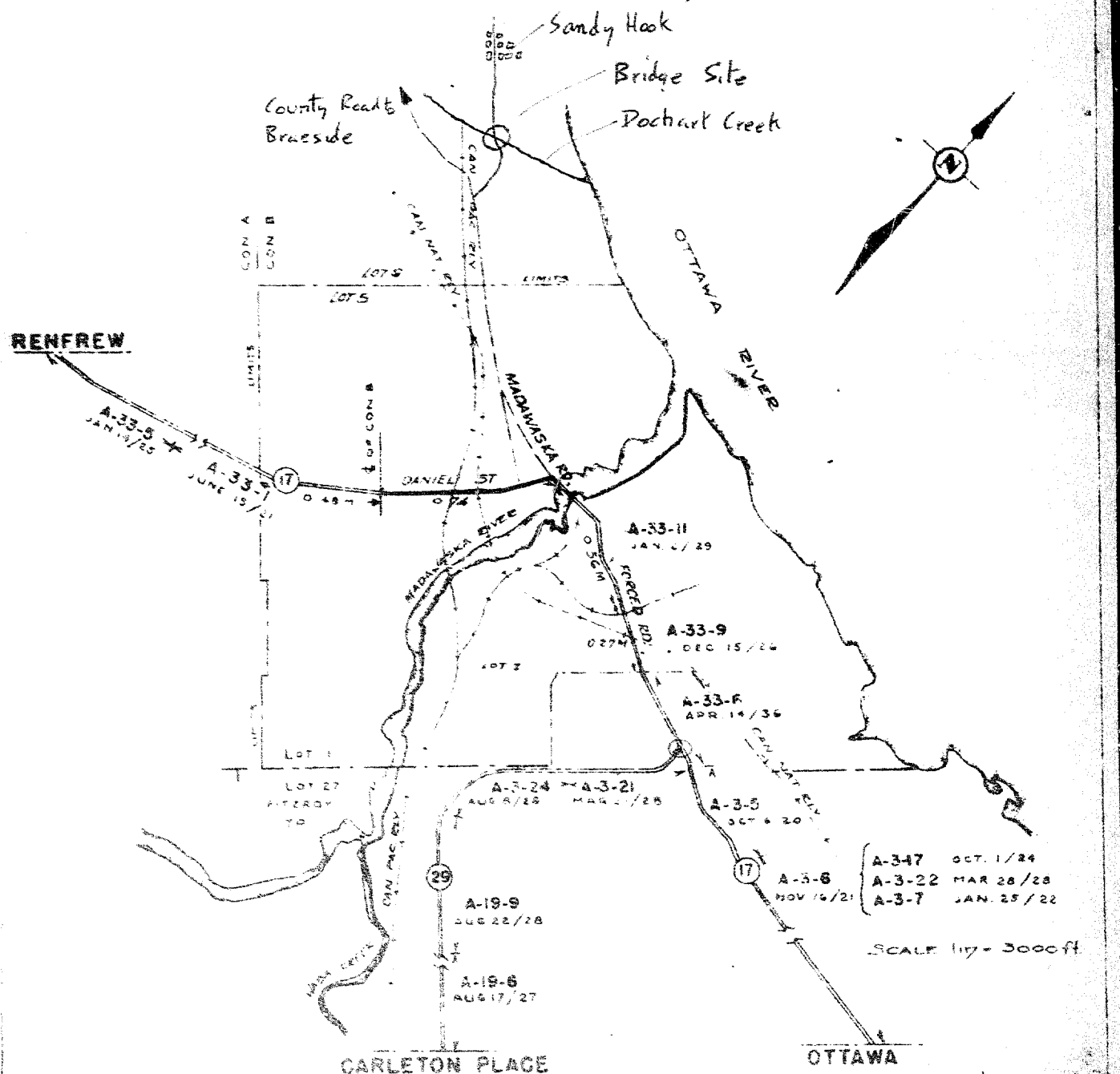
TOWNSHIP OF MCNAB

COUNTY OF

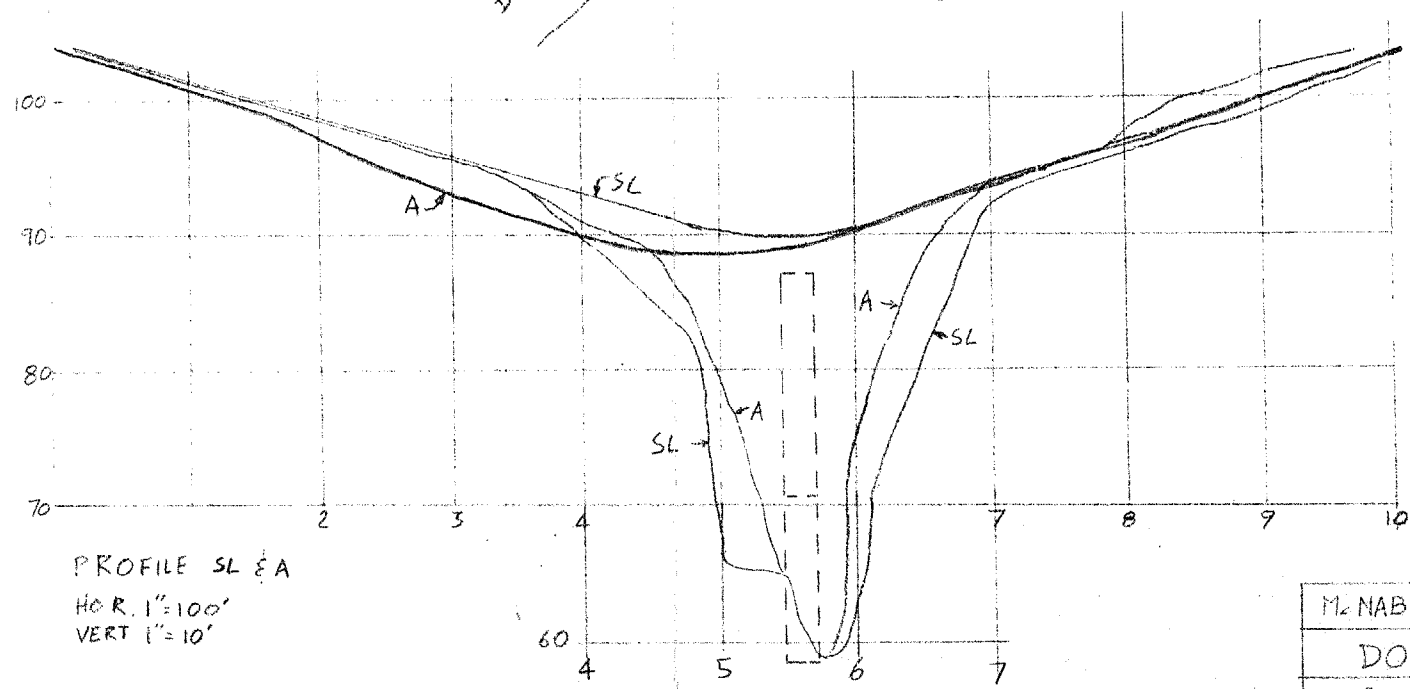
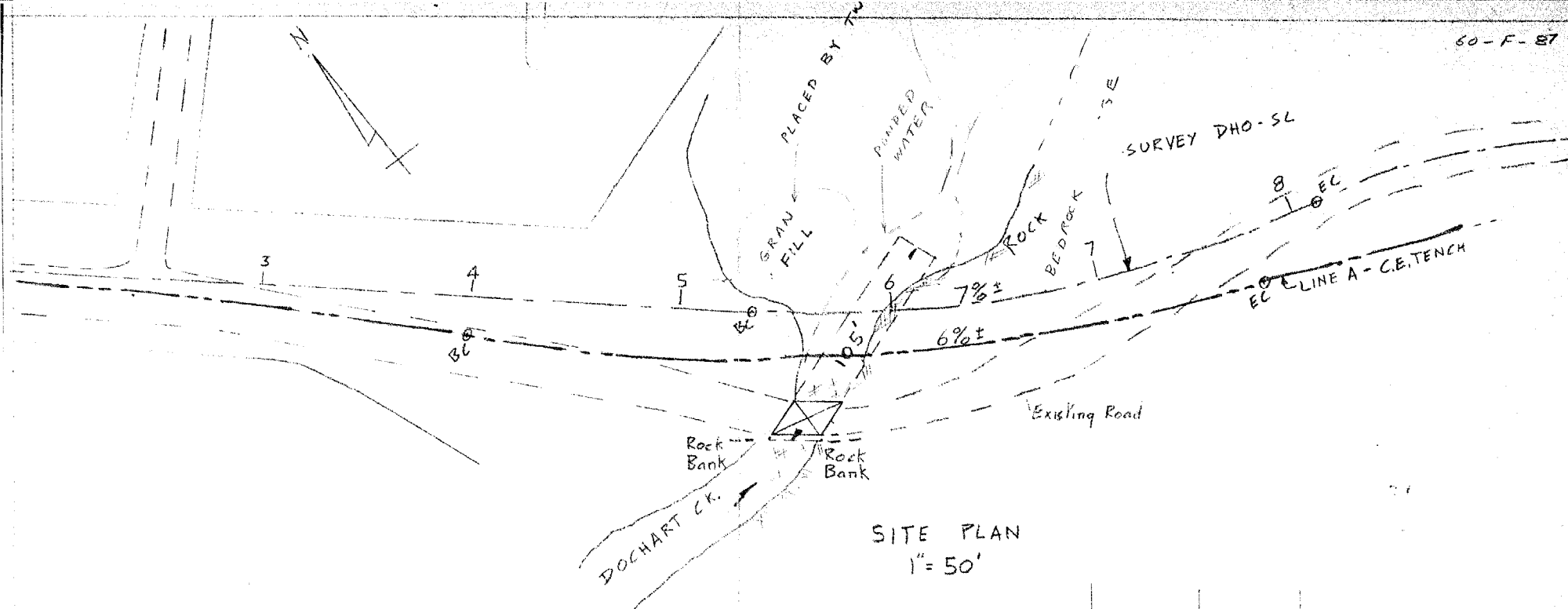
RENFREW

HIGHWAY NO. 17	50% CONNECTING LINK	0.74 MILES
HIGHWAY NO. 17	ASSUMED	0.27 MILES
HIGHWAY NO. 17	ASSUMED	0.56 MILES
HIGHWAY NO. 17	ASSUMED	0.48 MILES
	(1956)	

DATE	MAR. 14 1949
DATE	DEC. 15 1926
DATE	JAN. 2 1929
DATE	JUNE 15 1921
POPULATION	5,210



REV'D MAR 28/86
APRIL 24/87



M. NAB TWP. LOT 7 CONC. B
DOCHART CREEK
DOCHART

