

#65-F-116

Hwy #418 #60

EGANVILLE

PATROL

YARD

DEPARTMENT OF HIGHWAYS ONTARIO

MEMORANDUM

To: Mr. D. W. Farren

From: M&T Division, Kingston

Road Design Engineer

Date: September 7, 1965

Our File Ref.

In Reply To

Subject: Re: Eganville Patrol Yard

Attached is the Soils design report for the proposed patrol yard located 2 miles North of Eganville and east of the intersection of Hwys. 41 & 60.

Should you have any queries regarding the report or the recommendation contained therein, please contact this office.

H.A. Walker
J. E. Gruspier
Regional Materials Engineer

JEG/jfj

c.c. L. E. Walker

C.S. Moase

G. M. Wrong

A. G. Stermac✓

J. Ford

File

Eganville Patrol Yard

Two Mi. North of Eganville at the
Intersection of Hwy. 41 & Hwy. 50

Proposed Grading, Draining, Granular Base Course & Paving Projects

GENERAL DATA

This site is located in the Twp. of Wilberforce on the Canadian Shield in an area where the Precambrian bedrock is covered by bouldery sandy soils. Drainage of the area may be easily accomplished due to the sloping nature of the terrain and the porous nature of the subsoils.

INVESTIGATION

A soil investigation was carried out at this site on August 31, 1965. Power auger borings were placed to a minimum depth of 4' at various locations within the yard as indicated on the attached plan.

The foundation soils consist of slightly silty fine - medium sands with some large boulders imbedded flush with the surface.

BORROW MATERIALS

At the rear of the proposed site there are two small kame formations which contain sandy soils acceptable for earth borrow use. The average haul distance for earth borrow will be approximately 1,000'.

GRANULAR MATERIALS

Large quantities of crushable gravel are located within an average 4 miles haul distance of the site. These deposits are located along to the Bonnechere River south east of Eganville.

Limited quantities of material acceptable for Sand Cushion use are located on the site in the more southerly kame. Alternative sources are located within an average haul distance of 2 miles.

RECOMMENDATIONS

1. Type of Granular Materials

Based on the availability of materials, it is recommended that the granular materials on this project consist of GBC Class "A" and Sand Cushion.

2. Depth and Width of Granular Materials

The granular material should be placed full width to a 15" total depth on both the parking areas and access roads. This should consist of 6" GBC Class "A" over 9" of Sand Cushion.

3. Stripping

Due to the sandy nature of the topsoil on the site stripping need only be carried out where the total fill depth will not exceed 3' unless additional topsoil is required.

For design estimating purposes an average topsoil stripping depth of 6" may be assumed.

4. Drainage

It is recommended that drainage be provided to a minimum depth of 3' below the finished grade.

5. Pavement Type

It is recommended that the pavement consist of the following:

Binder Course - 2" HLA Top Course - 1½" HLA

Prepared by:

Ross L. Smith

Ross L. Smith
Project Soils Supervisor

Reviewed by:

H. A. Meyer

H. A. Meyer
Senior Soils Engineer

September 7, 1965

/jfl

Eganville Patrol Yard

Borehole #1

0 = 7"
 7" = 24"
 24" = 50"

Si. Sa. Tops.
 Lt. Br. Si. Si. F. Sa. (65-LK-1020)
 Med. Sa.

Borehole #2

0 = 8"
 8" = 60"

Si. F. Sa. Tops.
 Med. Co. Sa.

Borehole #3

0 = 7"
 7" = 30"
 30" = 60"
 60"

Si. F. Sa. Tops.
 F. Sa. U.G. (Some Stones & Cobbles)
 F. Sa.
 NFP Blds.

Borehole #4

0 = 8"
 8" = 24"
 24" = 60"

Si. Sa. Tops.
 Lt. Gr. Si. F. Sa.
 Lt. Gr. F. Sa. (Sl. Sty.) (65-LK-1021)

Borehole #5

0 = 10"
 10" = 48"
 48"

Si. Sa. Tops.
 Mod. Si. F. Sa.
 NFP Blds.

Borehole #6

0 = 7"
 7" = 14"
 14" = 48"

Si. Sa. Tops.
 Lt. Br. Si. F. Sa. U.G.
 Lt. Br. Si. F. Sa. (Sty. & Colby)

Borehole #7

0 = 8"
 8" = 20"
 20"

Tops.
 Br. Si. F. Sa.
 NFP Blds.

Borehole #8

0 = 12"
 12" = 60"
 60"

Tops.
 Br. Si. F. Sa. U.G. (65-LK-102-2)
 NFP Blds.

Borehole #9

0 - 12"
12"- 60"
60"

Tops.
Br. Si. F. Sa. U.G.
NFP Blds.

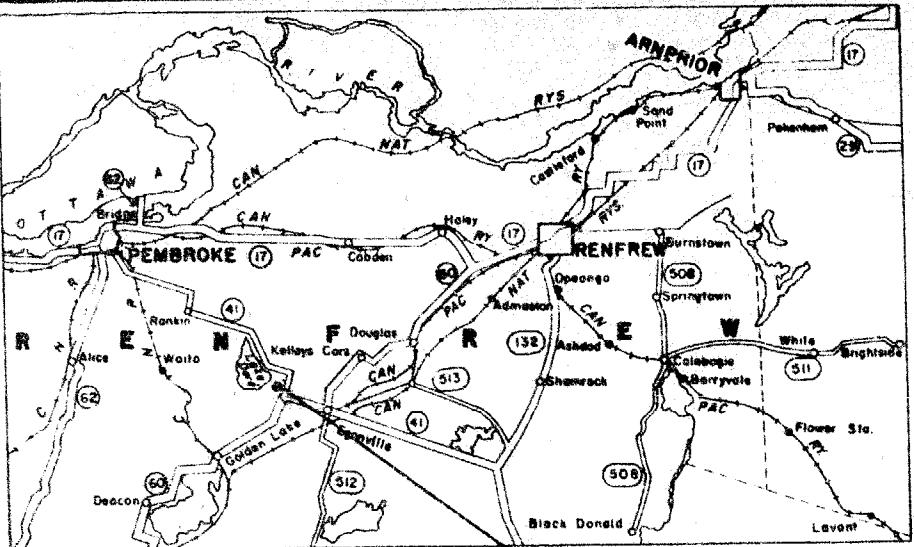
Borehole #10

0 = 8"
8" = 48"
48"- 60"
60"- 96"
96"

Tops.
Moist Br. Si. F. Sa.
Br. Sa. Si.
Moist Br. Si. F. Sa.
NFP Blds.

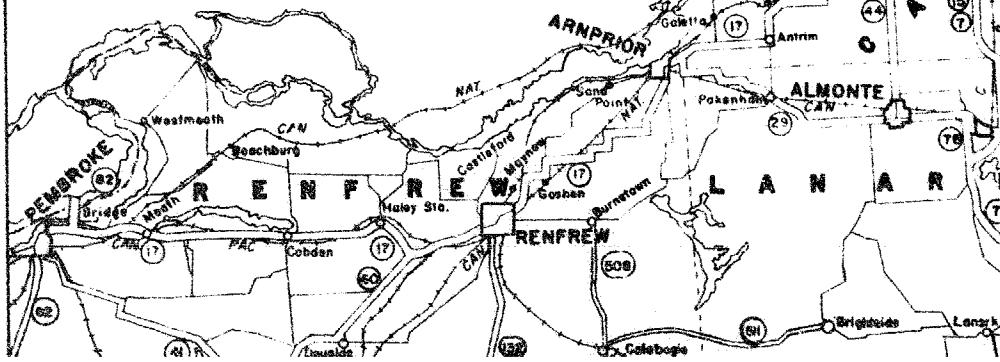
R. L. Smith
Project Soils Supervisor

RLS/jfj



EGANVILLE PATROL YARD

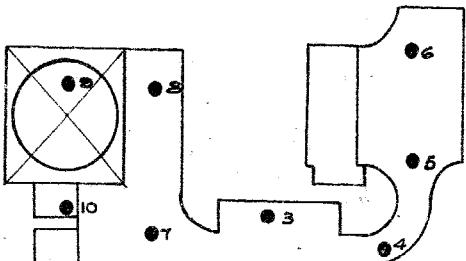
PROVINCE OF QUEBEC



OTTAWA DISTRICT

M 10 8 6 4 2 0 S 10

PROPOSED PATROL YARD



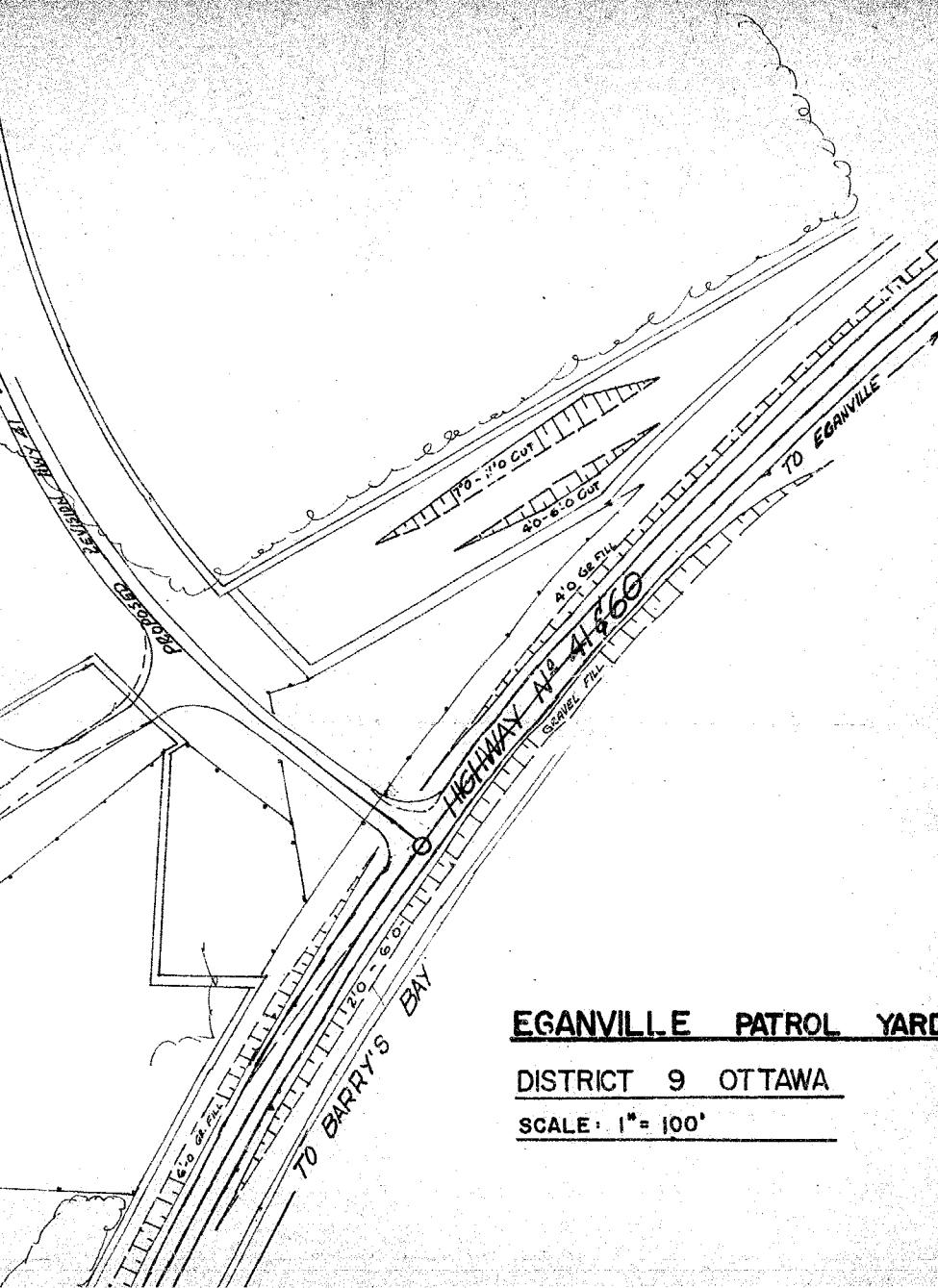
COUNTY RD. TO GERMANICUS

HIGHWAY N° 21

TO PENSÉE
372. FILE



LINE 'C'



EGANVILLE PATROL YARD

DISTRICT 9 OTTAWA

SCALE: 1" = 100'