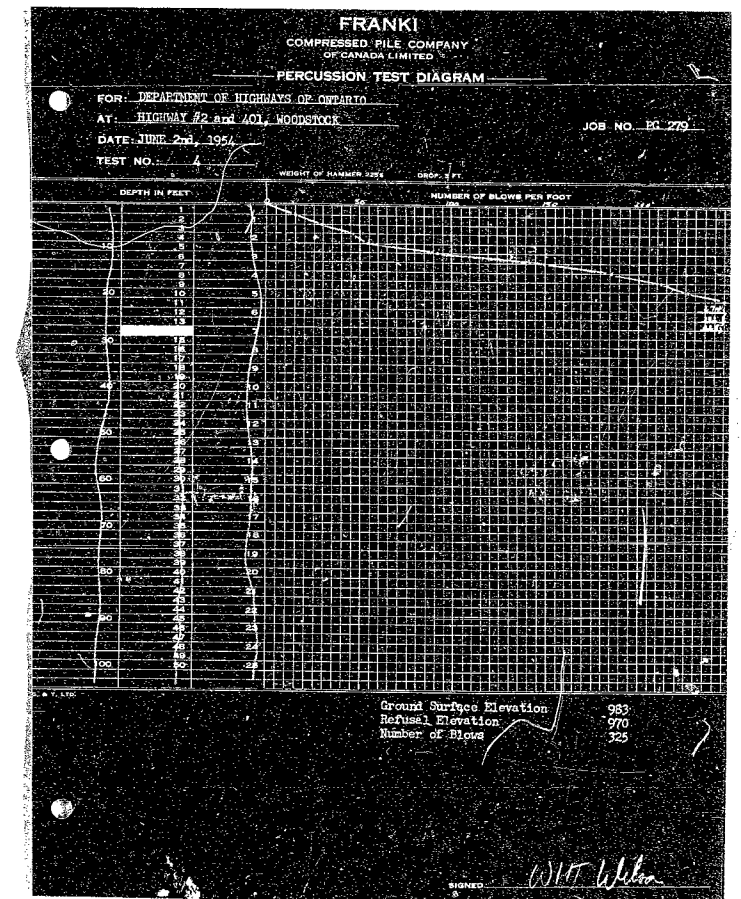
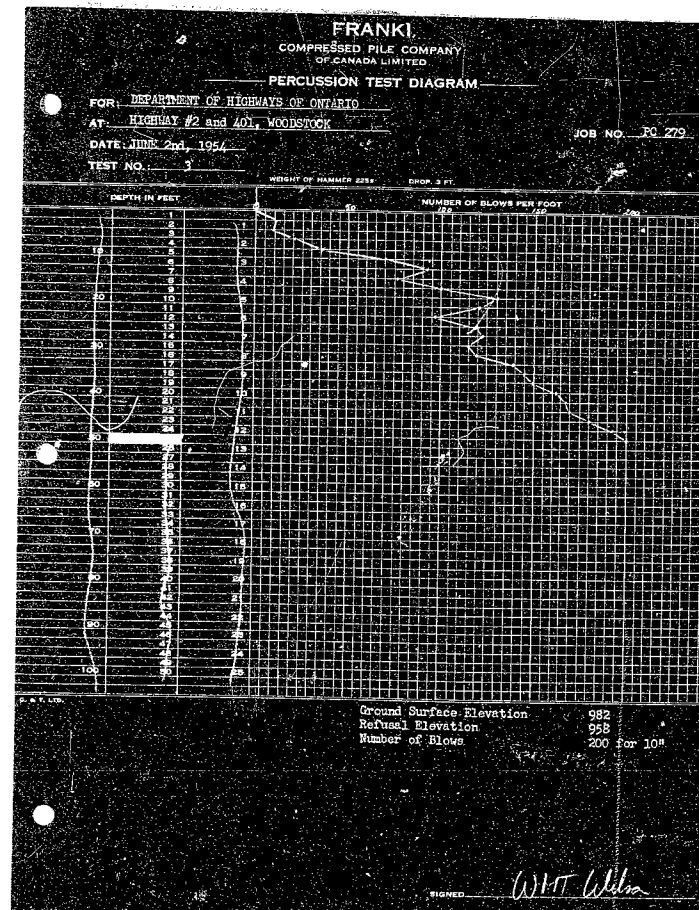
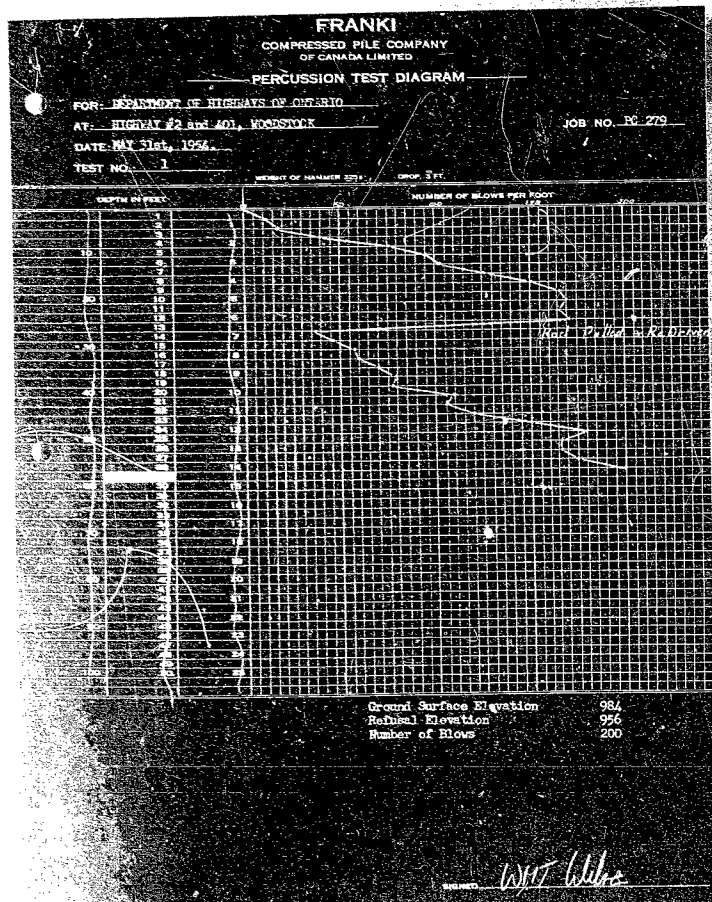
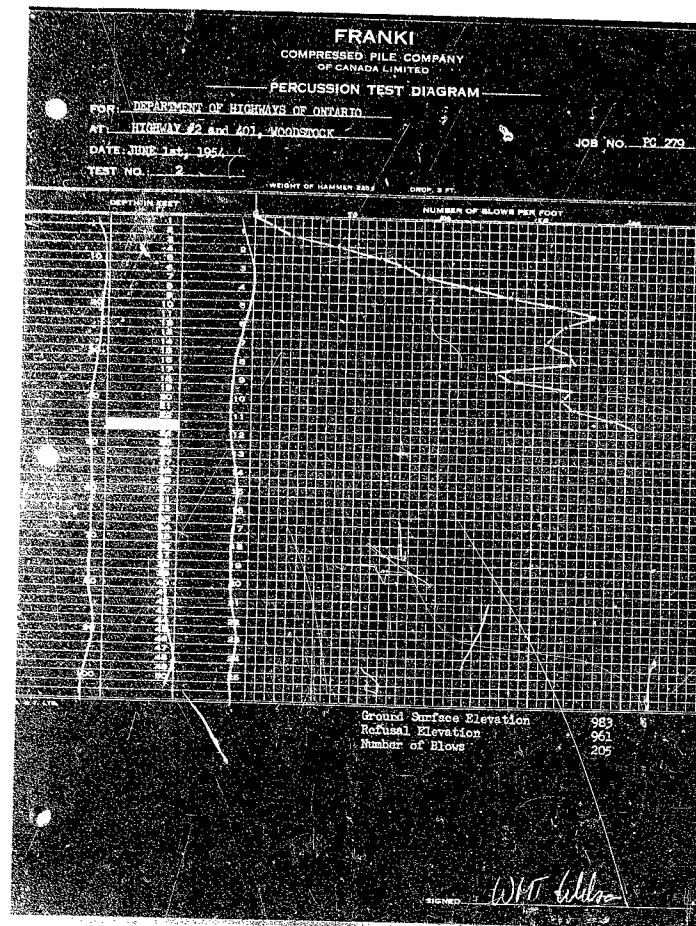
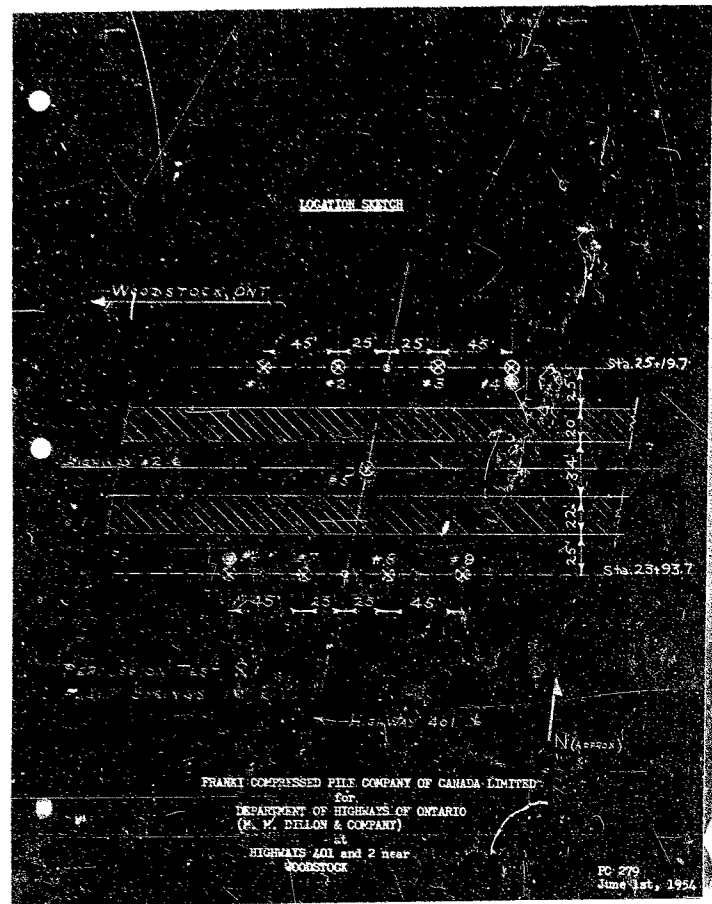
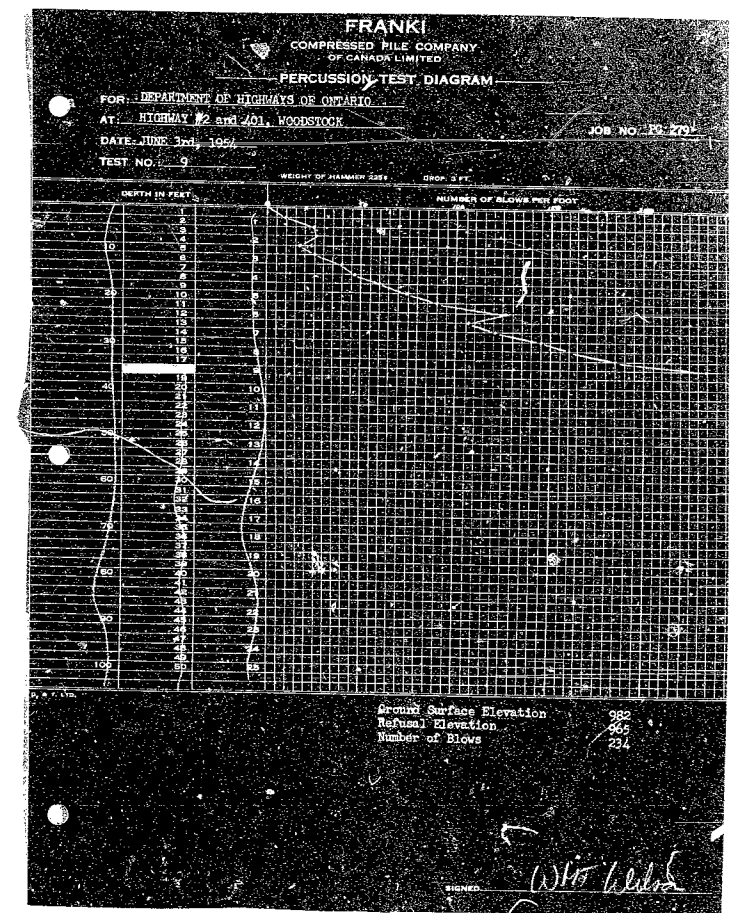
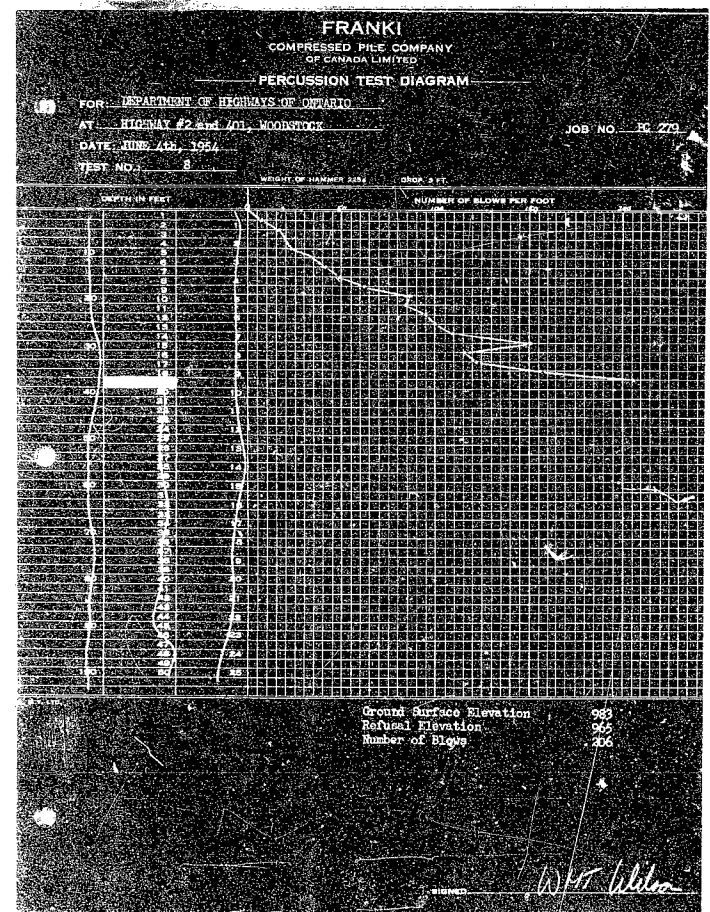
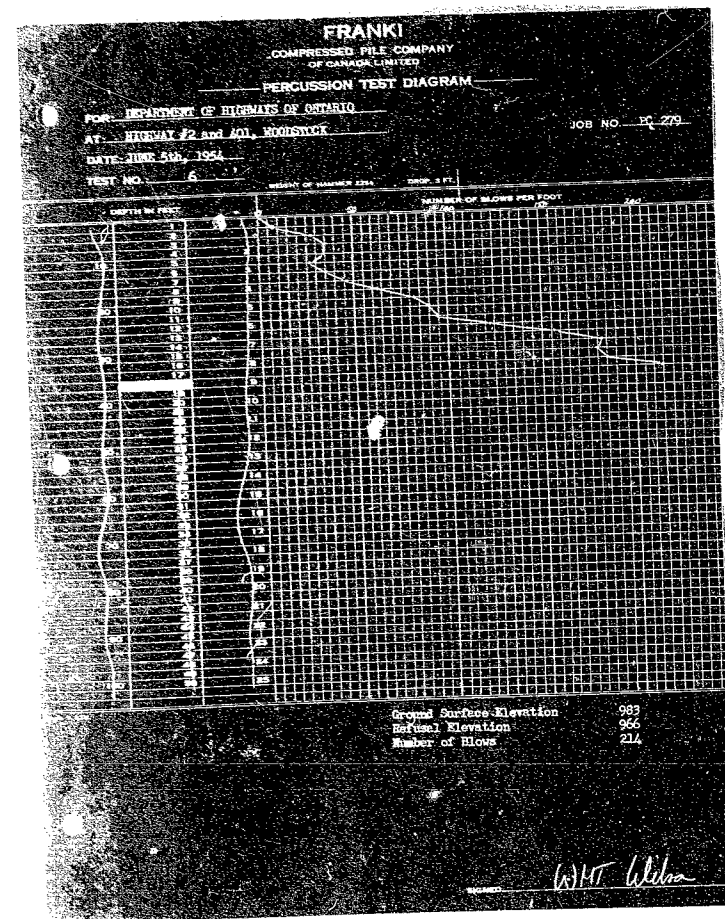
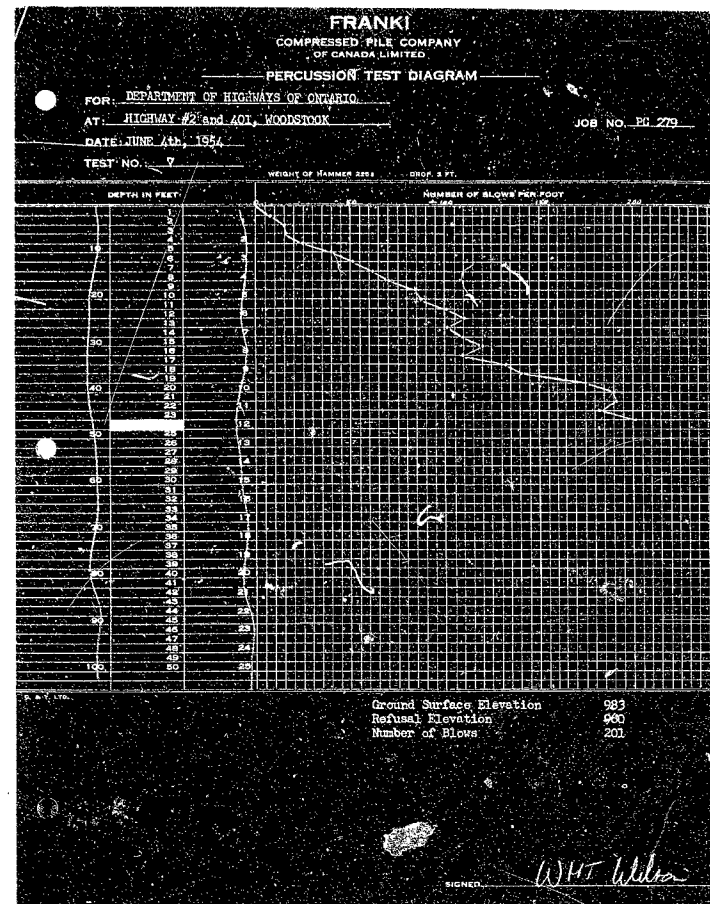
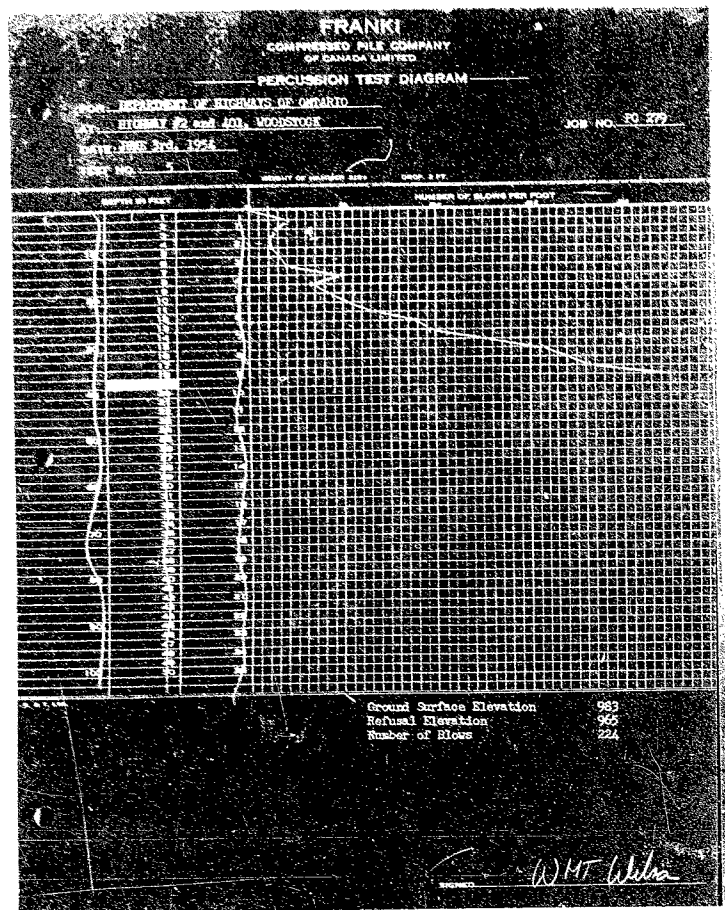


54-F-203C

Hwys. 2 & 401

EAST OF WOODSTOCK







"Franki Piles carry more tons per Pile"

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COMPRESSED PILE COMPANY OF CANADA LIMITED

1835 YONGE STREET

TORONTO 7, ONT.

CABLEGRAMS:
"FRANKIPILE"



TELEPHONE:
HUDSON 8-9009

Our Reference:
OP 2754 PQ 272
June 9, 1924.

SOIL INVESTIGATION REPORT

For

DEPARTMENT OF HIGHWAYS OF ONTARIO

(M. M. BILLY & COMPANY - CONSULTING ENGINEERS)

at the junction of

HIGHWAYS 2 and 401, EAST OF WOODSTOCK

As requested, we carried out a soil investigation at the site of a proposed Overhead Crossing of Highway 2 by Highway 401 east of Woodstock.

REPORT OF INVESTIGATION

Nine percussion tests were made at the locations shown on the attached Location Sketch. The results of these tests are shown on the attached diagrams and are summarized as follows.

SUMMARY

Hole No.	E L E V A T I O N S				Refusal
	Ground Surface	Water Level	2,000 lbs. per sq.ft.	4,000 lbs. per sq.ft.	
1	984	972	982	981	956
2	983	-	980	979	961
3	982	-	978	977	958
4	983	-	980	979	970
5	983	-	976	973	965
6	983	979	980	975	966
7	983	975	979	977	960
8	983	976	979	976	965
9	982	972	977	974	965

Two Auger Borings were made at the locations shown on the Location Sketch with the following results.

LOG OF AUGER BORINGS

Hole # 4

Ground Surface Elevation - 973.0

0' to 1' Stiff Clay - Topsoil, hard dry

1' to 14' Stiff brown clay

14' to - Medium brown clay

Samples 1 to 5
Sample # 6.

GP 5754
FE 279

June 9, 1954.

LOG OF ANGER BORINGS (continued)

Hole #6

Ground Surface Elevation - 933.4

0' to 1'	Medium Clay. Topsoil	
1' to 9'	Medium brown clay	Samples 1 & 2
9' to 18'	Stiff brown clay	Samples 3 & 4
18' to -	Moist clayey silt	Sample # 5

DISCUSSION

The Auger Borings show that the soil is a stiff to medium brown clay.

The Percussion Test diagrams indicate that a bearing of 4,000 lbs. per sq.ft. can be used at the elevations shown on the above Table.

From the shape of the Percussion Test diagrams, it would appear that the bearing value increased considerably with depth. However, in material of this nature, this is undoubtedly due to the friction on the rod which is confirmed by the behaviour of Hole #1 where the rod was pulled and re-driven, thus destroying the friction on the upper portion of the rod.

The presence of water in this material is not serious since it is relatively impervious and appears to come largely from the bottom of the holes in the silty material found in Auger #6.

WHT Wilson

W. H. T. Wilson, P. Eng.