

DOCUMENT MICROFILMING IDENTIFICATION

GEOCREs No. 40J2 - 36

W.P. No. _____

CONT. No. _____

W. O. No. _____

STR. SITE No. _____

HWY. No. 401

LOCATION BRIDGE SITE, SANDWICH S. #9
JCT. OF PERE MARQUETTE Rwy.
near WINDSOR

OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. NONE

REMARKS: _____

G.I. 30 SEPT. 1976

BA 395

40J2-36



"Franki Piles carry more tons per Pile"

CABLEGRAMS:
"FRANKIPILE"

FRANKI

COMPRESSED PILE COMPANY

OF CANADA LIMITED

1835 YONGE STREET

TORONTO 7, ONT.

TELEPHONE:
Hudson 6-2002

Co. References
 OF 1324, 1312
 December 17th, 1954.

SOIL INVESTIGATION REPORT
 for
DEPARTMENT OF HIGHWAYS OF ONTARIO
 (M. H. Wilson, Consulting Engineer)
 at
BRIDGE SITE, SANDWICH S. #9.

As requested we carried out a soil investigation at the proposed bridge site, Sandwich South #9, at the junction of Pure Margate railway and Highway #401 near Windsor, Ontario.

REPORT OF INVESTIGATION

Six percussion tests were made at the location shown on the Location Sketch. The results are shown on the accompanying diagrams and are summarized as follows.

SUMMARY

| Hole No. | Ground Surface | 2,000 lbs per sq.ft. | 4,000 lbs per sq.ft. | 6,000 lbs per sq.ft. | Refusal |
|----------|----------------|----------------------|----------------------|----------------------|---------|
| 1 | 626 | 620 | 619 | 618 | 617 |
| 2 | 626 | 621 | 620 | 620 | 618 |
| 3 | 626 | 621 | 620 | 620 | 616 |
| 4 | 624 | 618 | 617 | 616 | 614 |
| 5 | 624 | 618 | 617 | 616 | 615 |
| 6 | 625 | 619 | 618 | 617 | 615 |

No water was found in any of the six holes.

Two auger borings were made at hole #3 and hole #6.

LOG OF AUGER BORINGS

Hole #5.

Ground Surface Elevation 626

| | |
|----------|--|
| 0' - 2' | Moist sandy clay, slightly stoney, mottled brown and gray |
| 2' - 5' | Moist sandy clay, slightly stoney, mottled brown and gray |
| 6' - 7' | Stiff sandy clay, slightly stoney, mottled brown and gray |
| 8' - 9' | Very stiff sandy clay, slightly stoney, mottled brown and gray |
| 9' - 10' | Very stiff gray clay, slightly stoney, mottled brown and gray |

Hole #6.

Ground Surface Elevation 625

| | |
|------------|---|
| 0' - 2' | Moist sandy clay, slightly stoney, mottled brown and gray |
| 4' - 6' | Moist sandy clay, slightly stoney, mottled brown and gray |
| 6' - 7' | Stiff sandy clay, slightly stoney, mottled brown and gray |
| 9' - 10'6" | Stiff gray clay, slightly stoney, mottled brown and gray |

DISCUSSION

An examination of the permeation test summary indicates that soil conditions are very uniform over the entire site.

A bearing capacity of 6,000 pcf can be obtained at the proposed West abutment at elevation 618.

A bearing capacity of 6,000 pcf can be obtained at the proposed East abutment at elevation 616.

No unusual problems should be encountered in excavating or in placing footings.


W. H. T. Kilson, P. Eng.

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PERCUSSION TEST DIAGRAM

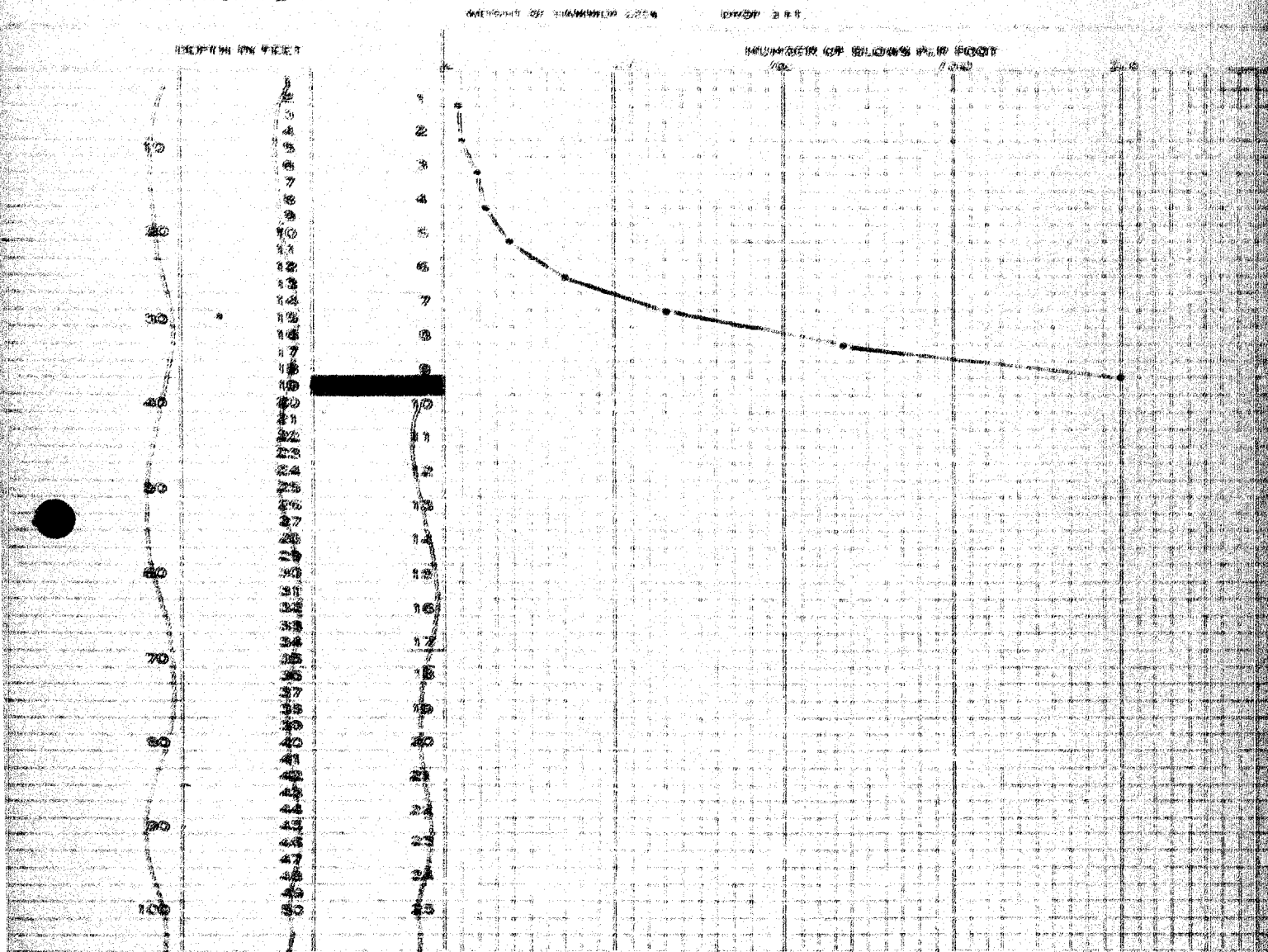
FOR: DEPARTMENT OF HIGHWAYS OF CANADA

AT: SANDWICH SOUTH #9.

JOB NO. FC 339

DATE: DECEMBER 10th, 1964.

TEST NO.: 1



Ground Surface Elevation 626
Refusal Elevation 617
Number of Blows 200

SIGNED

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OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO.

AT: SANDWICH SOUTH #9.

JOB NO. PC 339

DATE: DECEMBER 10th, 1961.

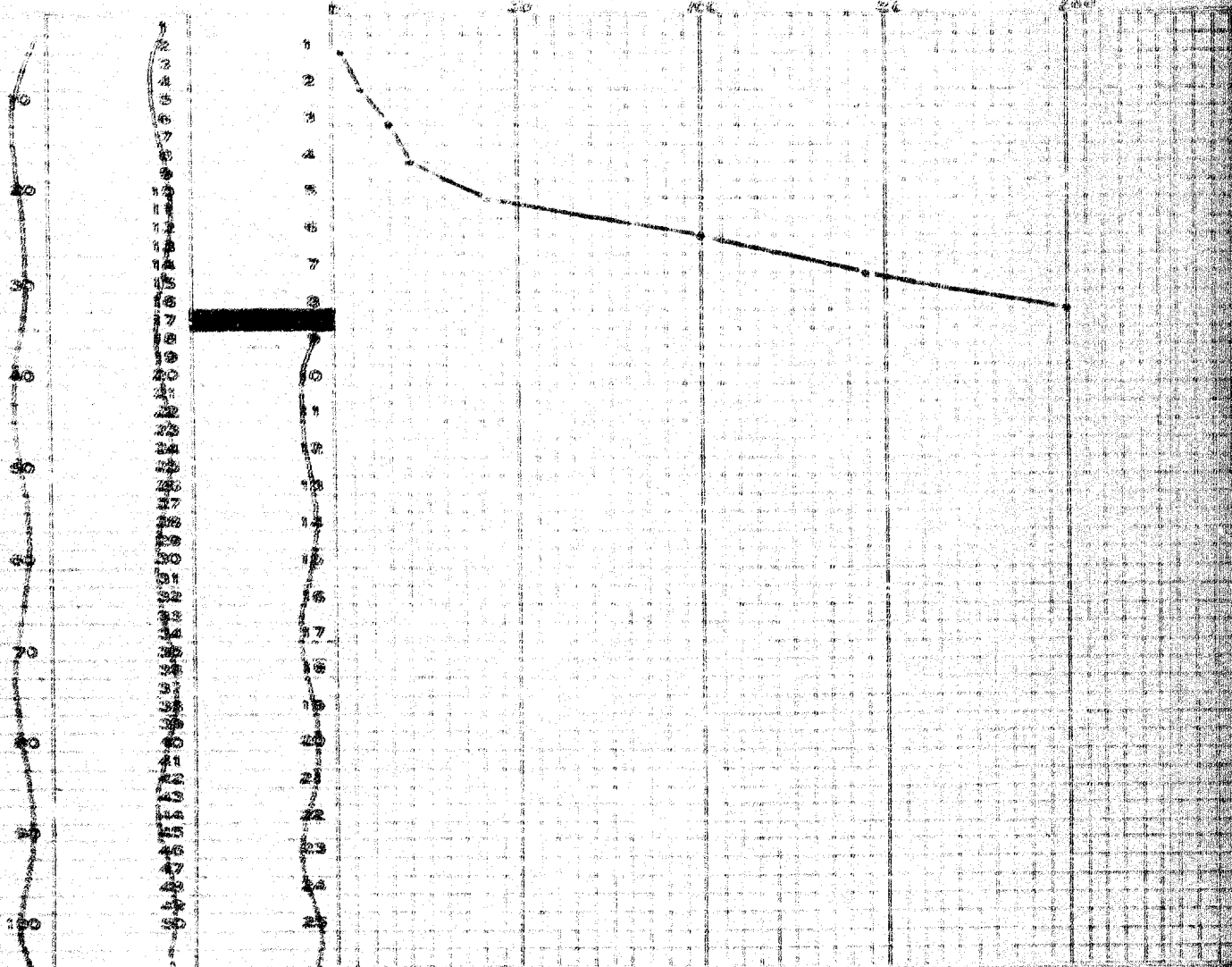
TEST NO.: 2

WEIGHT OF HAMMER 2250

DRUM 3 FT

DEPTH IN FEET

NUMBER OF BLOWS PER FOOT



S. M. T. LTD.

Ground Surface Elevation 626
Refusal Elevation 618
Number of Blows 200

SIGNED

[Handwritten signature]

FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

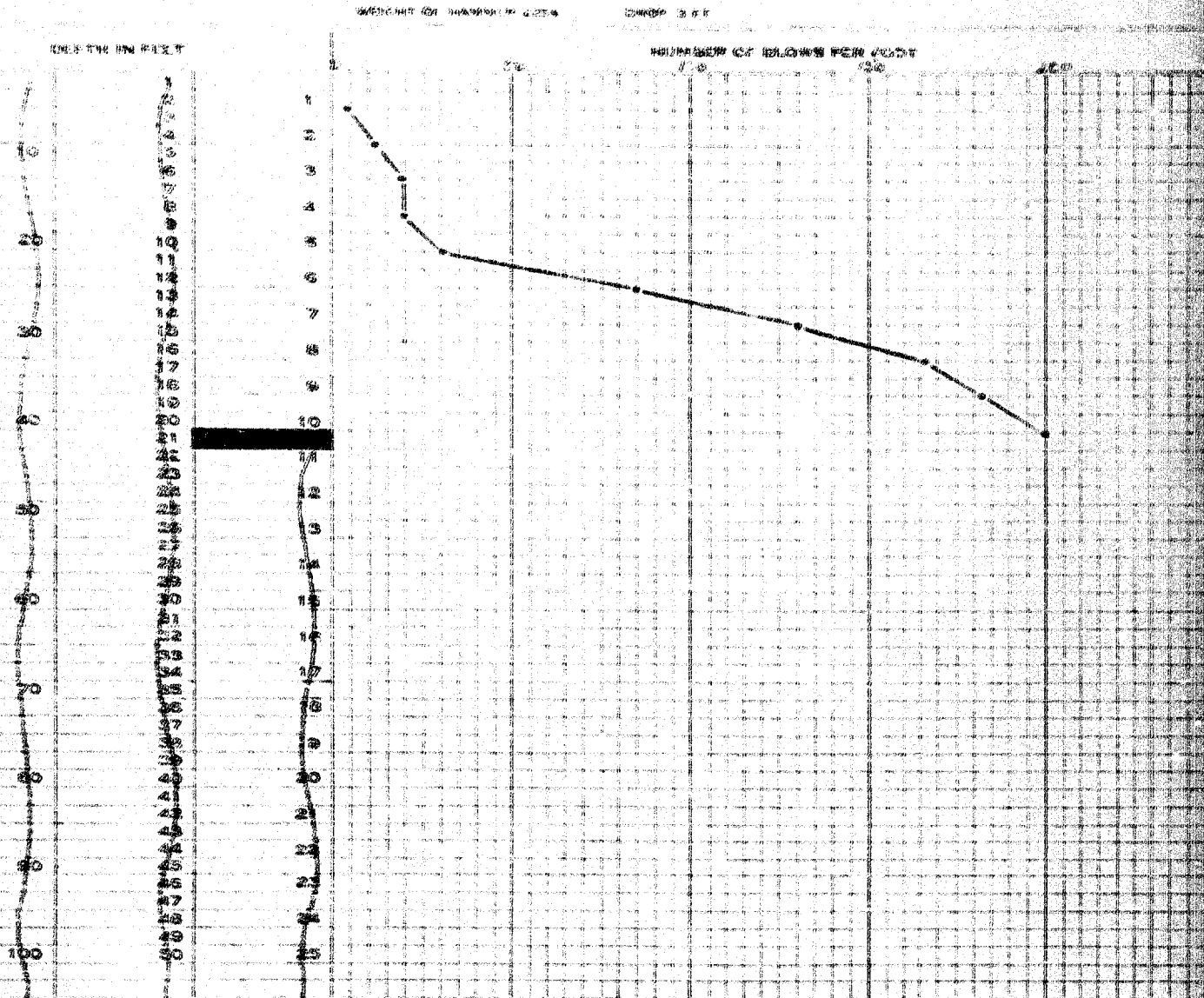
FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO.

AT: SANDWICH SOUTH #9.

JOB NO. IC 139

DATE: DECEMBER 10th, 1954.

TEST NO.: 3



Ground Surface Elevation 626
Refusal Elevation 616
Number of Blows 200 for 9"

SIGNED

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COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO.

AT: LINDICE SATE #9.

JOB NO. FC 339

DATE: DECEMBER 13th, 1954.

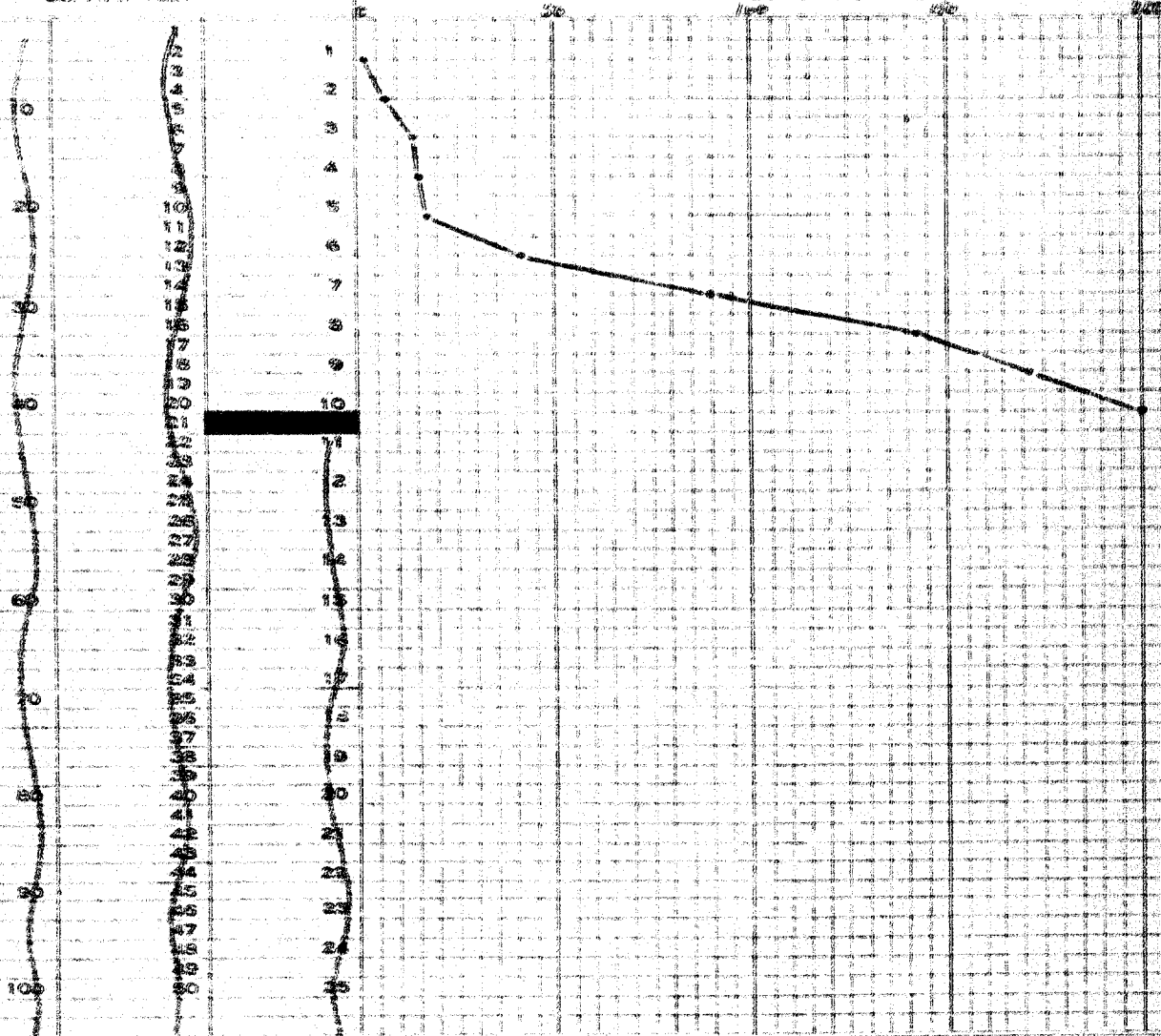
TEST NO. 4

WEIGHT OF HAMMER 2250

DRUM 3 F.F.

DEPTH IN FEET

NUMBER OF BLOWS PER FOOT



Ground Surface Elevation 624
Refusal Elevation 614
Number of Blows 200 for 10'

SIGNED

[Signature]

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OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO.

AT: SANDICH CATH #9.

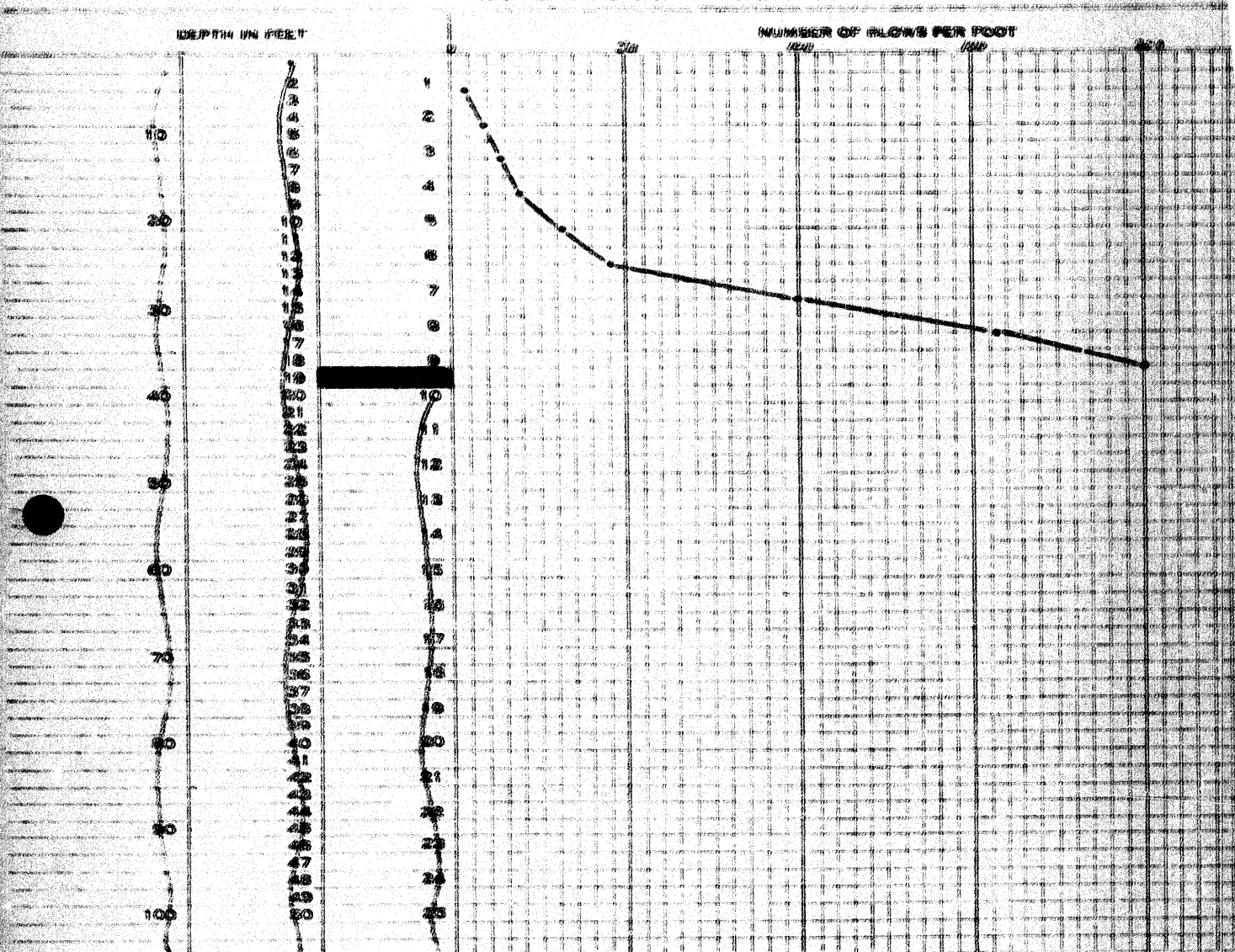
JOB NO. PG 33

DATE: DECEMBER 11th, 1954.

TEST NO.: 5

WEIGHT OF HAMMER 2250

DROP 3 FT.



Ground Surface Elevation 624
 Refusal Elevation 615
 Number of Blows 200

SIGNED: *[Signature]*

FRANKI

COMPRESSED PILE COMPANY
OF CANADA LIMITED

PERCUSSION TEST DIAGRAM

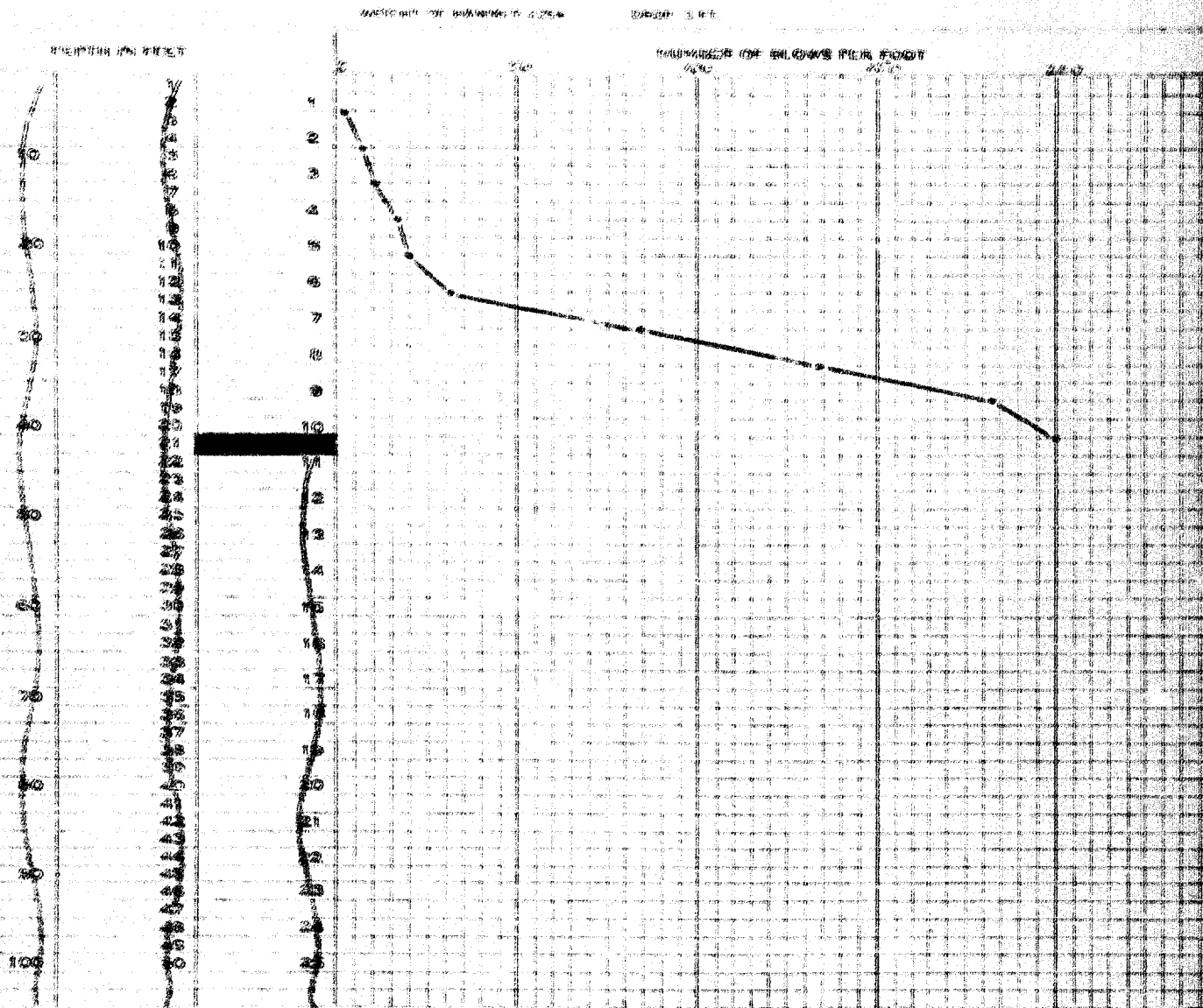
FOR: DEPARTMENT OF HIGHWAYS OF ONTARIO.

AT: SANDYBACH SOUTH #9.

JOB NO. IC 332

DATE: DECEMBER 11th, 1954.

TEST NO. 6

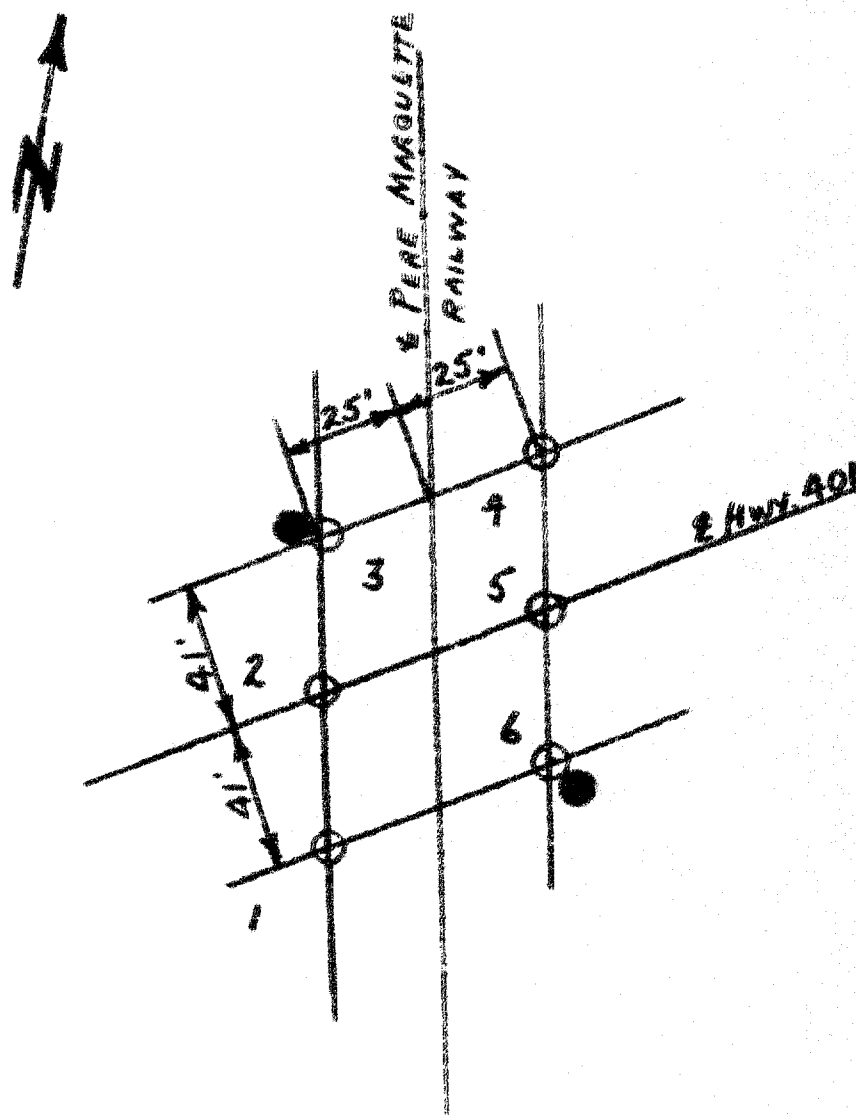


Ground Surface Elevation 625
Refusal Elevation 615
Number of Blows 200 for 8"

SIGNED

[Signature]

LOCATION SKETCH



PERCUSSION TEST 
AUGER BORING 

FRANKI COMPRESSED FILE COMPANY OF CANADA LTD.
for
DEPARTMENT OF HIGHWAYS OF ONTARIO.
at
SANDWICH SOUTH #9.

FC 339
December 16th, 1964.