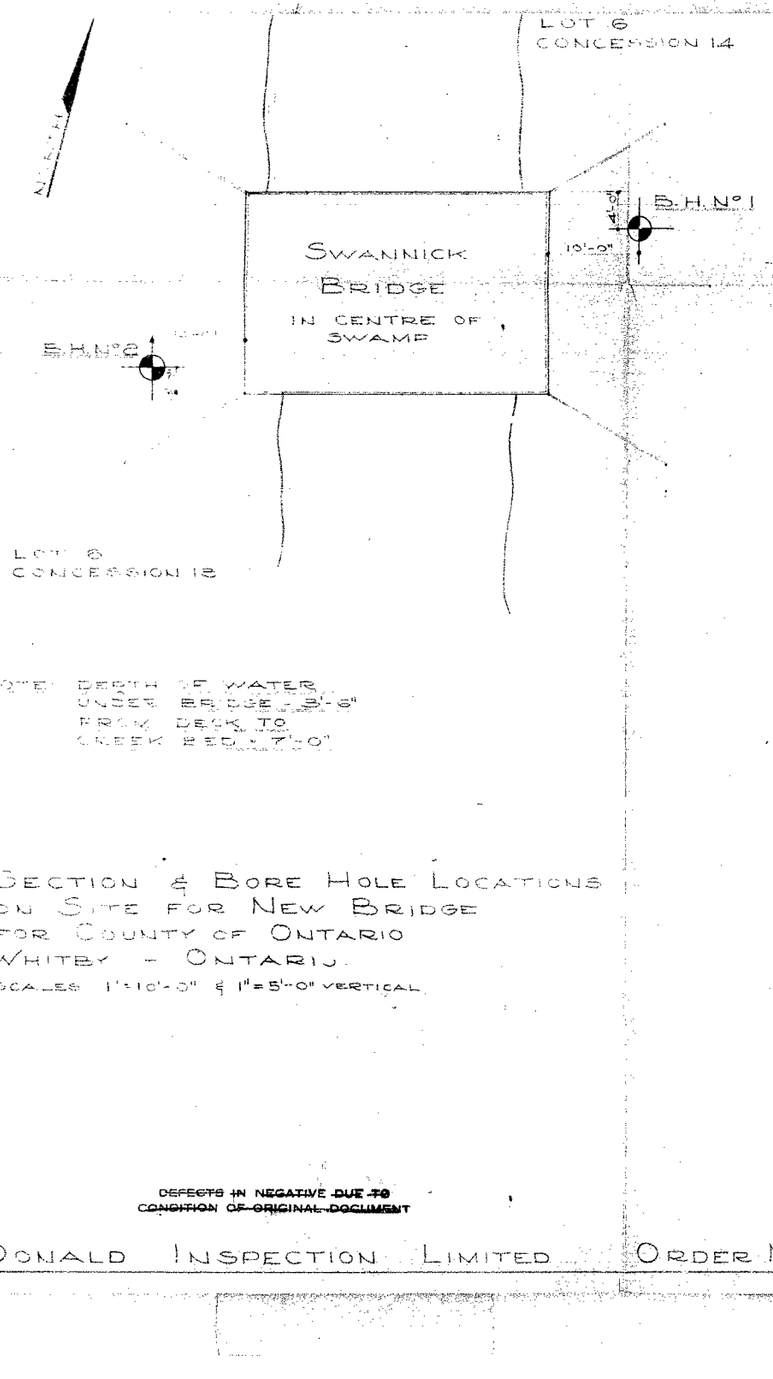
#65-F-282 M

NEW SWANNICK

BRIDGE

LOT 6, CONS. 13/14

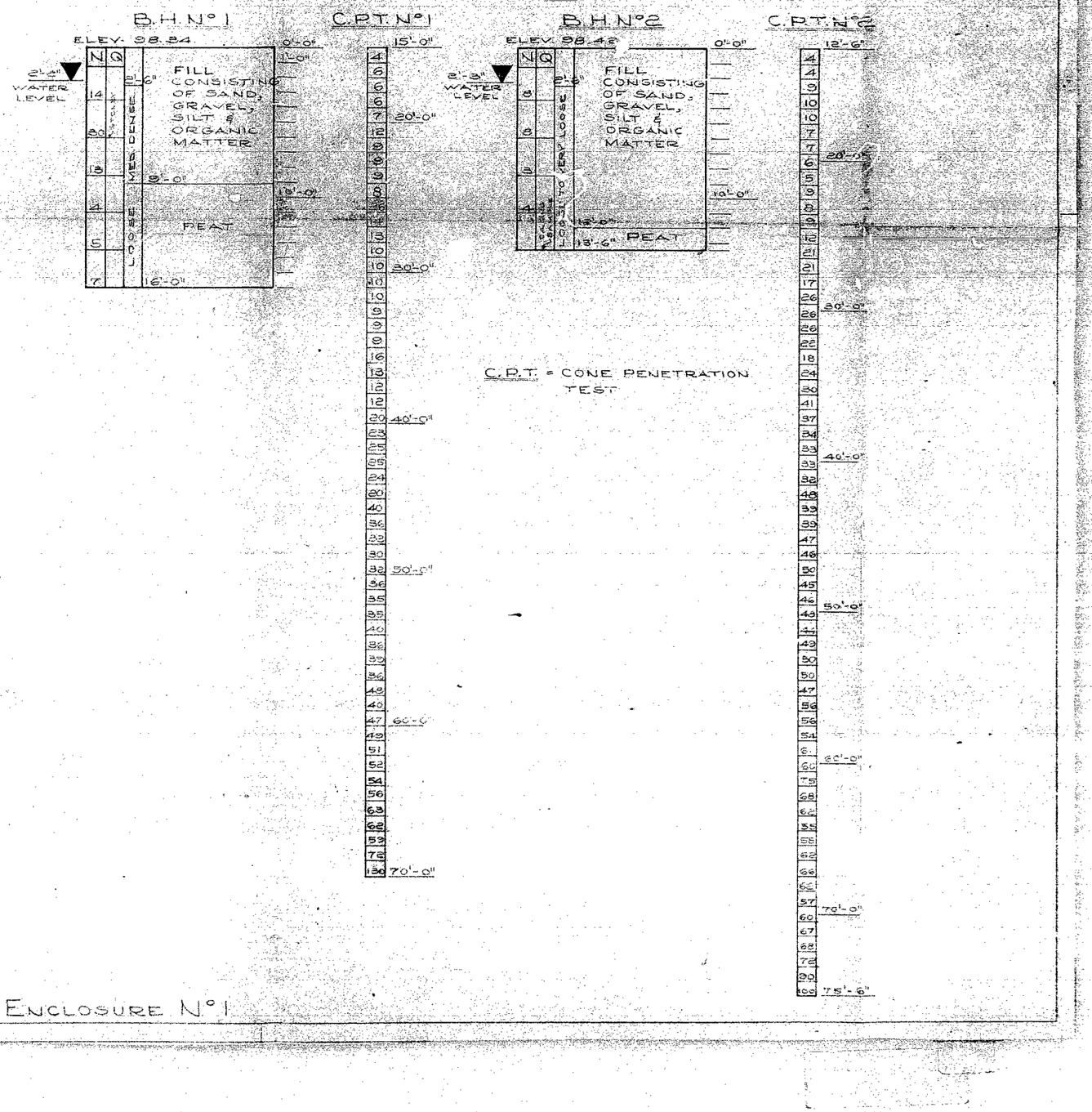
REACH TWP.



NOTE: DEPTH OF WATER UNDER BRIDGE 3'-6" FROM DECK TO CREEK BED = 7'-0"

SECTION & BORE HOLE LOCATIONS ON SITE FOR NEW BRIDGE FOR COUNTY OF ONTARIO WHITBY - ONTARIO

SCALES 1"=10'-0" & 1"=5'-0" VERTICAL



FORM 34

B.H. 2198

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OUR FILE NO.
OUR ORDER NO. TX-1735
CLIENT'S ORDER NO.

DONALD INSPECTION LIMITED

INSPECTING AND TESTING ENGINEERS

1189 GUY STREET, MONTREAL, QUE. | 340 RICHMOND ST. W., TORONTO, ONT.

REPORT NO. 265-10279
SHEET ... OF ...

July 30th, 1965

REPORT OF

SOIL TEST BORINGS

For County of Ontario,

Address County Building, 605 Rossland East, Whitby, Ontario.

LOCATION: Site for New Swannick Bridge. Lot 6, Concessions 12 and 11, Township of Reach

REPORTED TO: County of Ontario, Attention: Mr. W. A. Evans, P. Eng.

We report herein results of two soil test borings made at the above site during the week of July 26th, 1965.

Location of borings and details of sub-surface stratification are shown on the accompanying drawing which forms a part of this report.

DESCRIPTION OF FIELD WORK

Conventional augering was employed to depths of 16' (No. 1) and 13'6" (No. 2). A 4¼" diameter power-driven flight-auger was used to penetrate the soil. At shallow intervals through the soil profile, standard penetration tests were made and soil samples were taken.

The standard penetration test consisted in determining the number of blows required to drive a 2" O.D. split-spoon soil sampler for a depth of 1'0" into the soil by the impact of a 140 lb. hammer dropping freely through a height of 30 inches. Results of penetration tests are shown under column "N" in the boring logs.

Adjacent to these holes, a 2" diameter 60° cone was driven continuously by means of a 140 lb. hammer dropping freely through a height of 30 inches. A record of the number of blows required to penetrate each foot was kept and is given in the boring logs under column C.P.T.

.....continued

TX-1735 - continued

DESCRIPTION OF SUB-SURFACE STRATIFICATION

At the surface, loose heterogeneous fill was present and extended to depths of 9' (No. 1) and 12' (No. 2). Below these levels, a highly compressible, organic, saturated peat was encountered. Caving conditions were encountered and augering terminated. Cone penetration tests reveal in excess of 100 blows/ft. at depths of 70' (No. 1) and 75'6" (No. 2).

CONCLUSION

It is apparant from the results of borings that a piling foundation is required to furnish support to proposed structure. We would anticipate that end-bearing to 12" diameter steel tube concrete filled piles at a depth of approximately 70' below existing ground levels. An allowable working load of 37.5 tons/pile is generally employed for a 12" steel tube concrete filled type of pile

DONALD INSPECTION LIMITED,

S. Nowski, P. Eng.

SN/fs