

#61-F-34

WALLACEBURG

PATROL YARD

CHATHAM

Mr. F. E. Cavell,
Superintendent of
Special Services Section.

Materials & Research Section,
(Foundations Office).

April 28, 1961.

D.H.O. FOUNDATION INVESTIGATION
W.J. 61-F-34. REPORT.

RE: WALLACEBURG PATROL YARD -- DISTRICT #1, CHATHAM, ONT.

A foundation investigation was carried out at the above noted location on April 25 and 26, 1961. Seven boreholes were completed by means of a 3-inch soil auger, the location of which are shown on Drawing 61-F-34A.

The subsoil conditions at the site are quite uniform and consist essentially of silt and very fine sand underlain by stiff, silty clay. The silt and very fine sand can be described as loose to medium dense.

WATER CONDITIONS:

At the time of the investigation, the water table was approximately 18 inches below the surface, which is probably abnormally high due to heavy precipitation during the past month. The mottled colouration of the silt indicates that the water table fluctuates within very wide limits.

cont'd. /2 ...

22

19

RECOMMENDATIONS:

1) The garage structure should be supported on spread footings founded five feet below ground level. A safe soil pressure of 1 ton/sq.ft. and a minimum footing width of 24 inches should be used in the design.

2) Unless the footing excavations are carried out in a dry season, sump pumping operations will be required. If it is intended to place tile drains on any part of the property, this could be carried out in conjunction with the footing excavations. The natural surface and subsurface drainage is towards the nearby East Sydenham River.

The above recommendations should be sufficient for your future design work. If any more information is required, please contact the Foundations Office.

RJS/MdeF
Attach.

L. G. Soderman,
PRINCIPAL FOUNDATION ENGINEER

Per:-

REPORT PREPARED BY:
R. J. Salvas, PROJECT FOUNDATION ENGR.

REPORT APPROVED BY:
A. G. Stermac, SUPERVISING FOUNDATION ENGR.

cc: Messrs. F. E. Cavell (2)
J. Hamilton
H. A. Tregaskes
H. D. McMillan
H. C. Tackaberry
G. U. Howell
J. Roy
Foundations Office
Gen. Files. ✓

TO HWY N 278

ROAD ALLOWANCE BETWEEN LOTS 15 & 16

20' PAVEMENT

LAND

BARN

BARN

1 1/2 ST HOUSE

GAR

PIGEON COOP

3

5

585

LIMITS OF WORK SITE

PROPOSED LOCATION OF 4 BAY METAL GARAGE
FLOOR EL. 583.50

GRAVELED AREA

FR DOUBLE GAR

DRIVEWAY

FR GARAGE

WELL

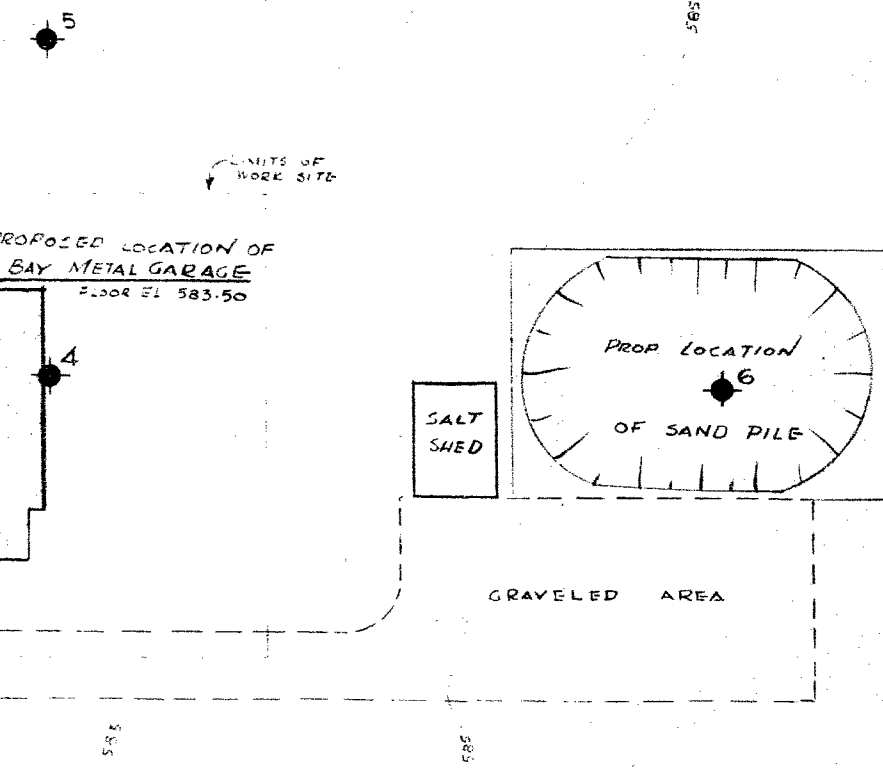
583

SALT SHED

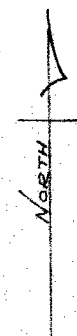
PROP LOCATION OF SAND PILE

GRAVELED AREA

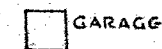
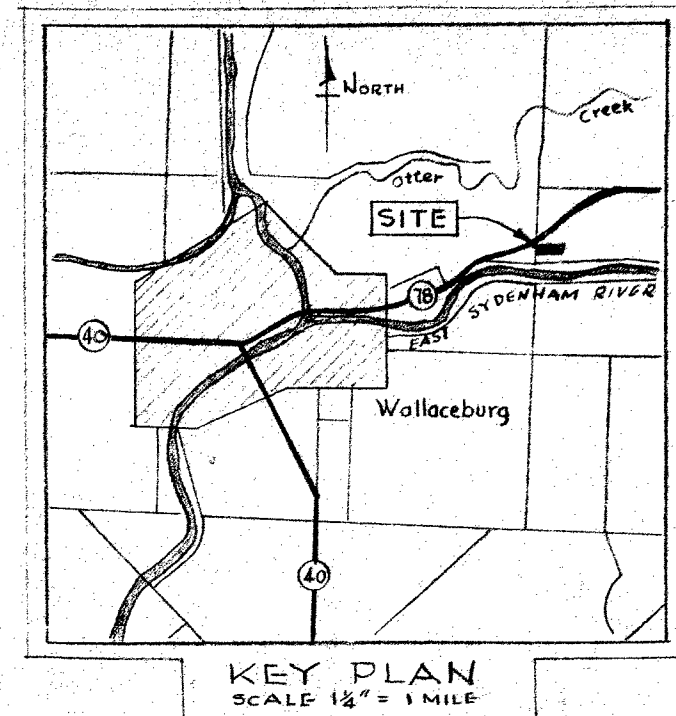
APPLE ORCHARD



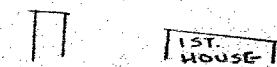
APPLE ORCHARD



PROPERTY LINE NO FENCE



FR GARAGE & STORAGE SHED



ORIGINATED <i>R. SALVAS</i>	DEPARTMENT OF HIGHWAYS - ONTARIO	SCALE 1" = 50'
DRAWN <i>H. D. REED</i>	MATERIALS & RESEARCH SECTION	WP NO
CHECKED <i>R. J.</i>	LOCATION OF BORE HOLES	JOB NO 61-F-34
APPROVED <i>W. A. P.</i>	WALLACEBURG PATROL YARD	DWG NO 61-F-34
DATE 27 APRIL 1961		