CHAPTER III

SUB SOIL CONDITION

1. Soil Sampling And Field Vane Testing :-

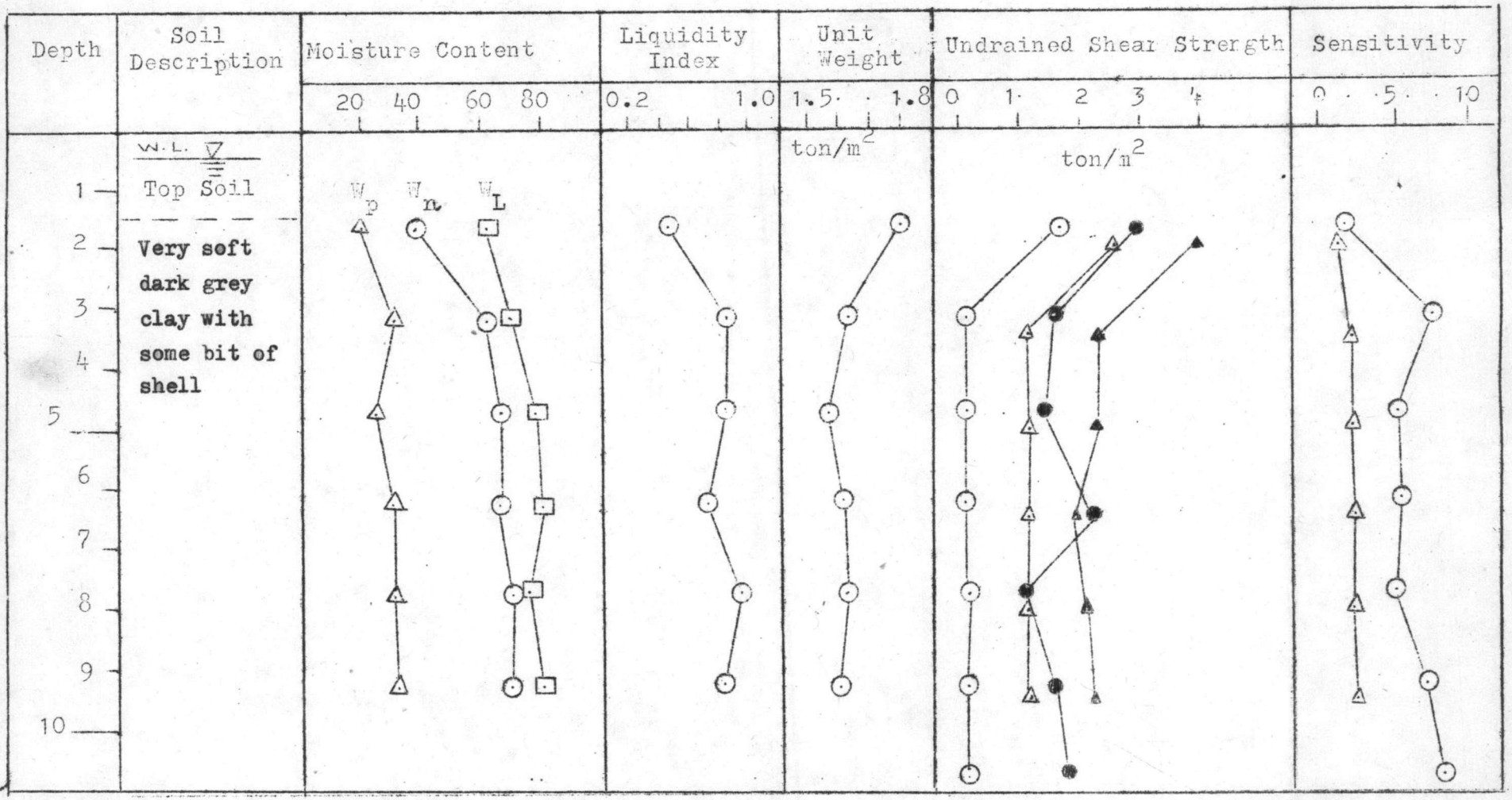
Augor boring method was employed for one 4 in diameter bore hole. Undisturbed samples were taken by 4 in diameter 0.60 m long thin walled sampling at every interval of 1.5 m depth. After sampling each sample the vane shear test was done at the speed of 10 degrees per minute. Then the vane was rotated 5 revolutions, after a while the vane shear test of disturbed samples were performed the depth of borehole is 10.50 m

2. Laboratory, Testing :-

In the laboratory, the general properties of natural moisture content, Atterberg Limits, and unit weight are measured

Undrained shear strength were measured in the laboratory using unconfined compression tests on 1.4 in dimeter, 3 in length specimens

All the subsoil properties are summarized in Fig. 14 and Fig. 15



Note ▲ UNDISTURBED VANE SHEAR ● UNDISTURBED U/c

△ DISTURBED VANE SHEAR ○ DISTURBED U/c

FIG 14 SOIL PROPERTIES AT THE TEST SITE

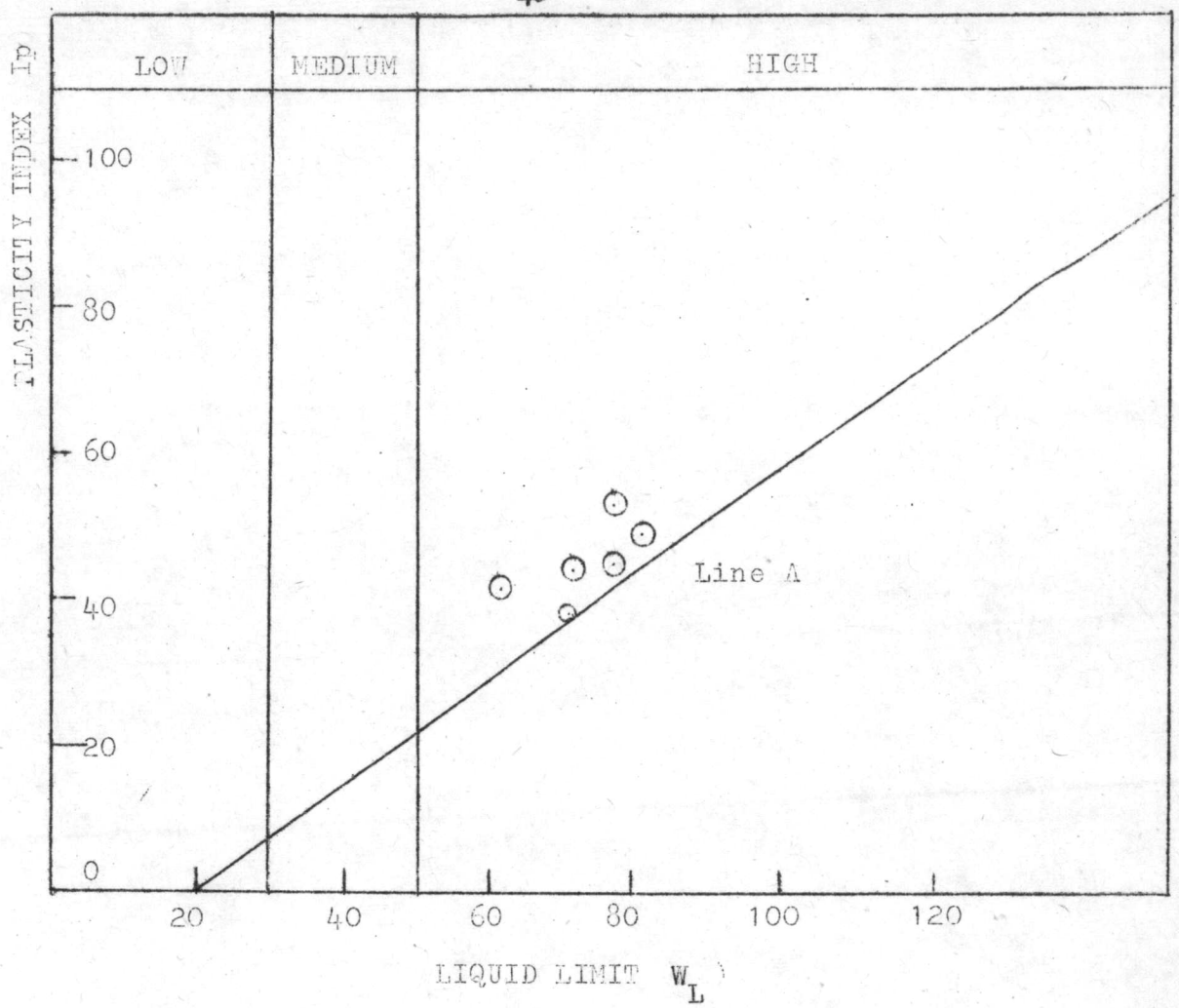


FIG 15 PLASTICITY CHART (AFTER A CASAGRANDE) OF THE TEST SITE