

## EXPLANATORY NOTES

Pile No. refers to numbering shown on attached pile layout plan.

Type of Pile: - General description. See "Instructions" below for additional information required.

R = Bearing capacity of pile in pounds, according to driving formula.

H = Fall of hammer, in feet.

F = Energy of the hammer (for double- or differential-acting) in foot-pounds according to manufacturer's rating for the number of blows per min.

S = Average penetration of the pile, in inches, per blow.

Pile Cap El. - Elevation of top of pile after pile has been driven and cut-off has been made.

Ground El. to be reported at the location of the pile driven.

In "Depth" column, record in each line the total depth of penetration at 1 ft. intervals, except near final penetration in case of hard driving where .5 ft. or .25 ft. entries may be informative.

"Blows" column the entry on each line shall mean the blows required for the increase in penetration since the preceding entry.

## INSTRUCTIONS

Besides filling out the form on the front side of this sheet, prepare a separate sheet (or sheets) containing the following information and attach the same to this form:

Type and Size of Hammer. (In case of a drop hammer, is the hammer released by a strip or does it drag the hoisting line?)

W = Weight of striking part of hammer, in lbs.

Description of the Pile-capacity Formula that is being used.

Type and Size of Pile. A complete description is desired from which the kind of material, the length in the leads, the average cross-section during driving, the weight, and the rate of taper of the pile and the average cross-section of the displaced soil can be ascertained. In case of a continuous taper from point to butt what is the point and butt diameter? In case of a partial taper what is the length of the tapered and the non-tapered portion and what is the diameter at the point, butt and end of taper? If a pile is lengthened during the driving operation, what is the length before and after the splice is made, what are the properties of the pile or pile shell below and above the splice and at what stage of penetration is the splice made? Where a shell or pipe is driven what is the wall thickness and is it the same for the full length being driven? If special pile apparatus such as a mandrel or casing is driven down and removed, what is its length, cross-section and weight? Kind of wood in case of timber pile. Description of concrete or other filler (if any) in case of steel - H pile. Any other special features of a pile.

Weight of Driving Cap (if any), including all of the device which is placed on top of the pile and which is struck by the ram of the hammer. On test piles also report the type, diameter and thickness of the cushion (if any) inserted between the cap and the pile and between the cap and the ram. A brief sketch or other description of the cap would be helpful.

The Character of the Penetrated Soil. This need not be reported where a soil log is known to be already available in the central office, unless the field engineer encounters soil conditions different than those reported.

The foregoing information is desired for research purposes even where it is not all used for capacity determination in an individual case.

If the information herein requested is the same for several piles for which Driving Log is submitted, it need be described in detail for only one of the piles and indicated as applying to the several pertinent piles. In some other cases it may be practicable to minimize repetition by explaining which properties are like those of another pile and which are different.

Any peculiarities noticed during driving should be reported.

It is intended that the information submitted be reliable and substantially correct, but preciseness is not desired.