

The tube having been driven, the steel reinforcement is lowered into it (above left), the concrete is poured into the tube (center), the pile is poured and the extraction of the tube is started (right).

Vibro System Is Demonstrated

About a hundred prominent government officials, engineers of the Bureau of Public Works in Manila, construction engineers, architects and contractors witnessed the first public demonstration of the Vibro Concrete Pile System, conducted near the Marsman Building in the Port Area on Saturday, May 14.

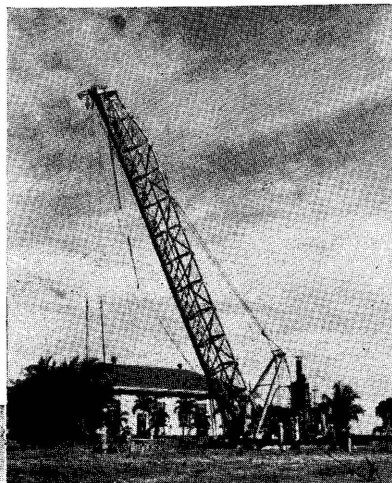
Considerable interest was shown by those who saw the pile driven under the supervision of Mr. H. D. S. Page, Manila representative of The Vibro Piling

Company, Limited, concessionaires for Hongkong and South China.

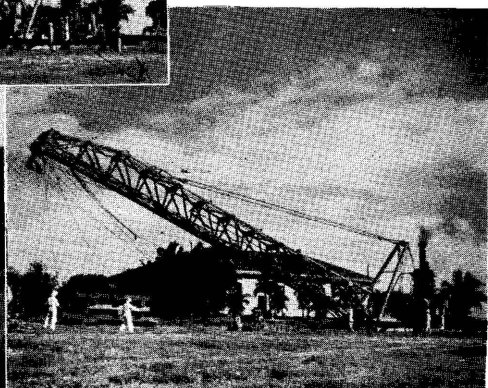
Almost every country in the world has adopted the system, and there are more than 50 machines in constant use.

THE Vibro process is based on correct engineering principles, and ensures the formation of a pile consisting of dense, compressed concrete which has not been subjected to any driving stresses and which is able to carry its load without risk of settlement.

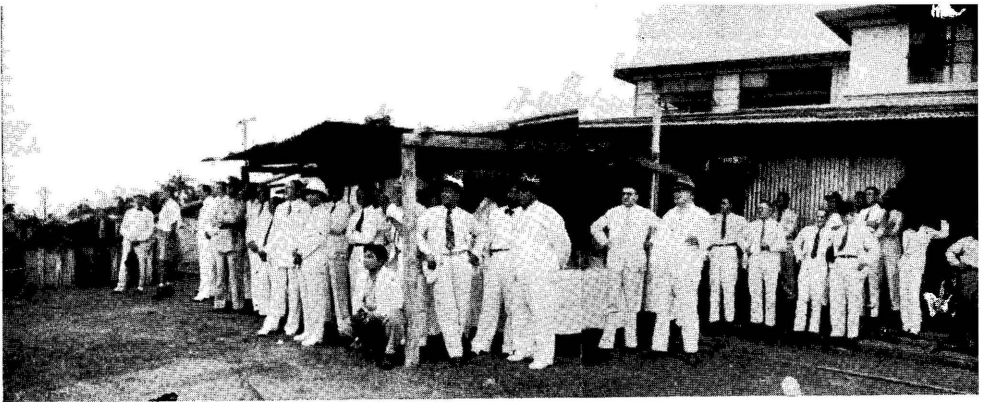
The boiler for the Vibro machine is raised (below)



The derrick is pulled erect by its own boiler (below) and is about to go into place (left picture).



Part of the audience which attended the demonstration. Mr. Marsman is shown in front of the group with Mayor Juan Posadas of Manila. After the demonstration breakfast was served under the shelter shown in the background.



Vibro piles are generally formed by driving a steel tube fitted with a conical cast iron shoe into the ground until the desired set is obtained. The tube is then filled with concrete and is extracted by a succession of upward extracting and downward tamping blows; the lower end of the tube is enlarged to form a tamping rim, so that each downward blow rams the concrete outwards firmly against the surrounding earth and keys the pile securely into the ground. The finished pile cannot be smaller than the outside diameter of the tamping rim.

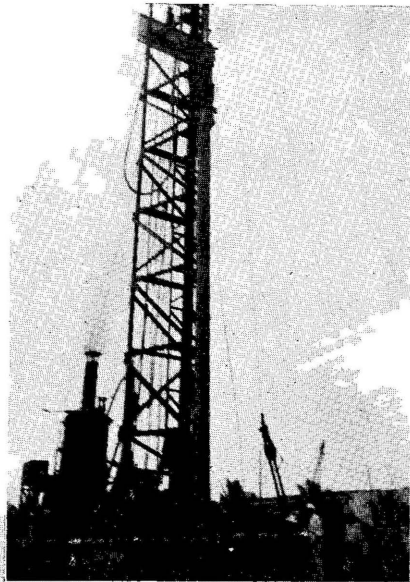
The ordinary Vibro pile is suitable for practically every type of foundation and nearly all ground conditions; there are, however, modifications of the standard Vibro system which are particu-

larly suitable when ground of low bearing value is encountered for a considerable depth.

The plant required for the formation of Vibro piles is simple to operate, and can be employed without alteration not only for standard Vibro piles, but also for any modified type that it may be found necessary to employ. The rapidity with which Vibro piles are formed compares very favourably with other systems or with pre-cast piles.

Vibro piles have been extracted for examination from time to time; every one has always been found to be of the full section and consisting of perfect concrete. Numerous loading tests have been made, and in no case has the Vibro pile failed to carry its load with an adequate factor of safety.

The extracting links being lowered preparatory to the starting of operations (below)



Lowering the tube on to the cast iron pile shoe (below), and the start of driving the tube (left)

