


Pataramon Prasitwatanachai 2007: A Study of Construction of Flood Protection and Drainage System of Bangkok Metropolitan Administration : Problems and Solutions. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Associate Professor Santi Chinanuattwong, Ph.D. 136 pages.

The objective of this research is to study the problems of flood protection and drainage system of Bangkok Metropolitan Administration in order to find the causes of problems and a guideline for solving the problems. The research was performed by collecting data from 30 projects of Main Drainage System Division in 2004 – 2006. The study used questionnaires as a tool for collecting data from both owners and contractors. The questionnaires consisted of procedures and operations of contractors, resource management of contractors, procedures and operations of the owner, design and specification, the obstruction, external factors. The study emphasized on frequency and significance of problems and obstacles happened in the construction.

The study showed that the problem that frequently found was also the significant problem. In the owner opinion, incompetent contractors led to less effective work was the most frequent and significant problems. Meanwhile, in the opinion of the contractors, people who built their houses on the public area that located on the construction line was the most frequent and significant problems. Understanding of causes of problem and finding appropriated methods of solutions will decrease and prevent the problems in the future. Besides, it will increase the efficiency of the construction.



Student's signature



Thesis Advisor's signature

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