MODIFICATION DESIGN OF SURABAYA SAMPOERNA OFFICE BUILDING USING PRECAST CONCRETE AND BUILDING FRAME SYSTEM

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Abstract

Precast concrete is one of method beside conventional method. Precast method has several advantages than conventional method. Which is more effective and controlling concrete quality.

The structure of Sampoerna office Building actually using conventional method. Structure of Sampoerna office building will be design using precast method on beam, stair and plate. The foundation of this building uses driven pile, tie beam, shearwall and overtopping will be design using conventional method. The number of structure is must be typical, because precast concrete will be effective if using typical types. Foundation of Sampoerna office building will be design using pile. Structure of Sampoerna office building will be design using Building Frame System. Using Building Frame System makes space frame providing support for gravity loads and shearwall providing support lateral load.


The result of this modification design is the building must support gravity load and lateral load which the building earthquake force plan.

Keywords : Precast Concrete, Building Frame System.