DESIGN MODIFICATION USING PRECAST METHOD WITH SHEARWALL IN BCA BANK BUILDING BRANCH RUNGKUT SURABAYA.

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Abstract
There is an increasing need for development in Indonesia is encouraging the development of construction methods in civil engineering. In an effort to meet those needs, the demands for construction of an effective and efficient bigger. Precast Systems, as one method of construction, is an appropriate alternative because it has advantages in terms of speed, quality control, and ease of implementation. In this thesis, Surabaya BCA Bank Building will be planned using the method on the element of precast beams and plates. While the elements of columns, stairs and poer using cast in place.

Modifications made to the building include replacing the beams and slab with precast concrete shear walls and add elements to assume lateral force to overcome the precast connection is not too stiff. From the existing literature, the connection system to be used in building the connection is wet with a little modification by the authors with consideration of ease of implementation in the field.

The number of types of different structural elements is minimized. It is intended to reduce the number of prints and uniform reinforcement and connection details. Finally as a whole, the structure of this building is not only economical, but also robust in accepting the force of gravity and earthquake forces in accordance earthquake zone this building is located.