

ABSTRACT

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Dukuh Atas Multipurpose Pedestrian Bridge (JPM) Construction Project

Construction Methods at Pierhead and Calculation of Concrete Volume Requirements at Pierhead Zone 2 As 11

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(XVI+60+Attachments)

The Dukuh Atas multipurpose pedestrian bridge (JPM) construction project, spans 209.6 m. JPM makes integration and transportation easier in Jakarta. The concept of JPM is quite unique, namely semi-building and semi-bridge. Waskita Beton Precast Tbk as the implementing contractor. This report was made with the aim of knowing the conditions of work in the field directly, knowing the obstacles in the field and their solutions, knowing the function of the tool, knowing the method of carrying out pierhead work and knowing the volume of concrete in the pierhead. The type of contract is Design and Build with a contract value of Rp167,116,269,405,-. Obstacles in the field that are known to include licensing, rain, the location of utility lines and the location of the project, then the solution is to stop work during the rain, delay work waiting for permits, shift the foundation location point so it doesn't hit the utility line and adjust the JPM structure to the existing building. The multipurpose pedestrian bridge construction project (JPM) is divided into 3 stages, namely the planning stage, the implementation stage and the maintenance stage. In the implementation process, there are lower structural works and upper structural works, namely reinforced concrete on bore piles, pile caps and columns, as well as other work related to this project. The volume requirement of concrete on the pierhead is 53,41 m³.

Keyword: Concrete Volume, Construction Method, Pierhead