

ABSTRACT

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Cimanggis – Cibitung Toll Road Construction Project Section 2 Elevated, PCI Girder Erection Implementation Method Using Launcher Gantry at span P17 – P18 STA 27 + 070 – STA 50 + 373 Elevated MM2100

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(XIII + 54 + Attachment)

The construction of the Cimanggis – Cibitung Toll Road is part of the Jakarta Outer Ring Road (JORR) II which was built with the aim of reducing the traffic load on routes that pass through Jakarta with a toll road length of 23,303 km. The owner of this project is PT. Cimanggis Cibitung Tollways in cooperation with PT. Virama Karya as supervisory consultant, PT. Perentjana Djaja and PT. Delta Global Structure as a planning consultant, as well as PT. Waskita Karya, Tbk as the main contractor. The type of contract used is Fixed Unit Price with a contract value of Rp. 3,429,975,269,647.48. The project was implemented for 1608 calendar days. Observations made during practical work in the form of upper structure include PCI girder erection using cranes, diaphragm casting process, steel deck installation, deck slab reinforcement and deck slab casting. Erection PCI girder is a method of installing the girder beam on its pedestal. The use of cranes in the implementation of erection is due to adjusting the work area. In the implementation of erection, it is necessary to analyze the load to be lifted and the maximum load capacity of the equipment used so that something does not happen that can cause losses, and obtain the appropriate safety factor value.

Keyword: Work Method, Erection PCI Girder, Crane, Launcher Gantry