

## **ABSTRACT**

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### **WORK METHOD OF CAST-IN-SITU BOX GIRDER ON SERPONG – BALARAJA SECTION 1A TOLL PROJECT**

*Internship activity is carried out on the Serpong – Balaraja Toll Road Section 1A where PT. Wijaya Karya (Persero) Tbk. as the main contractor. This toll road connects the existing toll roads, namely the Jakarta - Serpong section with the Tangerang - Merak toll road which is connected in Balaraja. The Serpong – Balaraja toll road is divided into 3 sections, namely Section 1: Serpong – Legok Toll Road, Section 2: Legok – Tigaraksa Toll Road and Section 3: Tigaraksa – Balaraja. The toll road section for section 1, in its implementation is divided into 2, namely: Section 1A: Serpong – AEON and Section 1B: AEON – Legok. In this toll road work, there are several types of Rigid Pavement with the main structure consisting of Box Tunnel, Box Culvert Maindrain, Underpass Bridge, and Overpass Bridge. In this professional work activity, the practitioner learns the method of casting in-situ box girders on the ramp from the preparation stage of the shoring foot foundation, roro shoring installation, PD8 shoring installation, installation of reinforcing steel and side formwork, iron checklist, concrete inspection, box girder casting, and concrete treatment. The practitioner also helps the engineering department which includes making work methods, calculating residual iron and volume of excavation. The result of this professional work is that the practitioner is expected to be able to understand the cast in-situ box girder work method.*

**Keywords:** *Internship, Box Girder, Serpong – Balaraja Toll Project Section 1A, cast in-situ, shoring.*