3D ANIMATION IMPLEMENTATION METHOD CULVERT BOX BRIDGE ON EAST WONOSARI STREET GG. PINANG

Student Name : Yusuf Riski Dany Harahap

NIM : 4103191250

Supervisor I : Boby Rahman, M. Ars

Supervisor II : Dedi Enda, MT

Abstrack

The Bengkalis area itself has many bridge constructions that are useful for smooth transportation, one of which is the bridge at gg. Pinang, East Wonosari Village, Bengkalis District, Bengkalis Regency. Currently, there are several problems with the bridge, including the cracked railing and the connecting parts of the road and the asphalt bridge are damaged which endanger the driver. From these problems it will be planned to design a bridge using a bridge structure with a box culvert, for the implementation of a box culvert using a cast in situ implementation method and the implementation method is applied in the form of 3D animation using a 3D modeling application.

In the bridge design process for box culvert dimensions, referring to the standard reinforced concrete culverts of the Directorate General of Highways 2016

Based on the results and discussion, the stages of the box culvert implementation using the cast in situ method include site cleaning, mobilization, demolition of bridges and diversion of road currents, measurement and installation of bouw planks, closure of waterways, excavation of soil, installation of wooden chimneys, casting of K-125 work floors, work subfloor slab, box culvert wall work, top floor slab work, curb work, formwork demolition and concrete maintenance, wing wall work, embankment work, bridge oprit work, finishing. From the results of the calculation of the volume of box culvert iron on each work item, the total weight of iron is 2630.3 kg.

***Keywords**: Box Culvert, Implementation Method, 3D Animation, Calculation of volume*