**WATER FLUCTUATION CHANNELS OF JAKABARING SPORT CITY AS FLOOD CONTROL IN URBAN AREA**

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**Abstract -** The phenomenon of flood events in the event of rain with a duration of 3 hours in the city of Palembang alone can lead to flooding. This condition is very disturbing activities of people. Various attempts have been made, but these efforts have not been optimal in addressing the problem of flooding. The effort is in the form of maintenance of drainage channels, improvement rivers crossing the city, various studies related to the city flood control, construction of flood control facilities as well as some of the rules have been issued for flood control. These efforts turned out less rapidly with the development of the city. Palembang southern region have land elevations tend to be flat, while the higher locations are Palembang northern region. As a result of the area is relatively flat, in certain locations are often experienced flooding / inundation caused by storm water runoff that is unable to be accommodated channels. In addition to the specific locations flooding also caused by runoff of Musi River.

Jakabaring area as an area of ​​Palembang city development has primary channels along the ± 1.200 m. At the time of extreme rainy season in January 2016, the water in the channel almost overflow so necessary to study changes in water level in the main channel.

The result showed the maximum water level in the main channel ranged from 2.10 to 2.25 m as. tolerance limit of the water level in the channel is not overflow.

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