DESIGN OF IMPROVEMENT ROAD
BY USING RIGID PAVEMENT
INTERNODE KLAKAH REJO – BENOWO STA 2+930 - STA 7+930 SURABAYA CITY, EAST JAVA

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Abstract
Joints way at Klakah Rejo-Benowo, is a primary artery that connectting between Surabaya City with Sub-Province of Gresik at East Java. The road become the alternative ways that connect those two town. As the road that hold the characteristic of joints at Klakah Rejo - Benowo still hold on some problem of transportation, that are : traffic rising that caused by the mount of vehicle and bad condition of that road (phasing and cracking) on some location in that joints road.

In this final project, it is planned the increasing level of road with rigid pavement joints at Klakah Rejo-Benowo STA 2+930 – STA 7+930 with 5 km length.

In the analysis of planning the capacity for extensive needs using Manual Kapasitas Jalan Indonesia (MKJI) 1997, for bold planning use the clues of rigid pavement (cement concrete) DPU group and growing PU Balitbang centre jalan 1985, and for the planning of wayside channel (drainage) by using Procedures Planning Of Drainage Surface of Road (SNI 03-3424-1994). Analysis product road capacity appropriate with plan old for 20 years (2028) get score DS = 0,741 with road wide 15 m. Construction analysis use reinforced concrete ossifying continue thickly plate 26 cm and use bone φ 16-110 mm for to long direction and φ 16-750 mm for athwart direction. For the
dimension of channel is right side planned to use square form and left side in the form of river in form of trapezium.

From the planning result of increase road above expected can overcome and serve heavy traffic burden as according to age plan which have been planned

**Keyword**: thick rigid pavement, bone, Dimension Channel.