GEOMETRIC AND PAVEMENT DESIGN FOR
CEREMLEM-KWIROK SECTION
PAPUA PROVINCE

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Abstract

Section road of Ceremlem-Kwirok is still in progress. The recent condition before it is a forest. This road section is really need for to develope and to increase the economic activity in isolated region in Papua, especially Pegunungan Bintang regency.

The road geometric design refer to ”Tata Cara Perencanaan Geometrik Jalan Antar Kota No: 038/T/BM/1997”. For flexible pavement thickness design refer to ”Petunjuk Perencanaan Tebal Perkerasan Lentur Jalan Raya dengan Metoda Analisa Komponen, SKBI – 2.3.26.1987. UDC: 625.73 (02)”. Surface road drainage design refer to “Tata Cara Perencanaan Drainase Permukaan Jalan, SNI 03-3424-1994”.

Yield of this planning is for road life 10 years, car velocity 60 km/hours and the road’s wide is 7 m, with 2 ways 2 directions road type (2/2 UD). For horizontal alignment is gotten 17 PI and for vertical alignment is gotten 35 PPV. Surface road drainage is gotten 1,44 m², the fill’s volume is 474440,750 m³ and the cut volume is 847990,980 m³. For flexible pavement, is gotten thickness : 8 cm surface with laston (MS 590), 20 cm base with stone breaks A class, 10 cm subbase with sandy stone B class. And works cost Rp. 385.396.713.637,40.

Keyword : Road Geometric, Flexible Pavement, Surface Road Drainage, Cost, Ceremlem-Kwirok.