

# TINJAUAN PERENCANAAN TEBAL PERKERASAN LENTUR DAN KAKU DENGAN METODE MANUAL DESAIN PERKERASAN (MDP) 2017

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## INFORMASI ARTIKEL

### Kata Kunci:

DCP, Daya dukung tanah, Pondasi

### Keywords:

DCP, Soil bearing capacity, Foundation

## ABSTRAK

Metode yang digunakan dalam penelitian ini adalah metode MDP 2017 dengan melakukan penelitian lapangan menggunakan alat DCP untuk mengetahui daya dukung tanah (CBR), data survey lalu lintas, dan data geometri jalan. Hasil perhitungan nilai ESA5 sebesar  $0,59E+06$  didapatkan tebal lapis perkerasan HRS WC 5 cm, lapis pondasi bawah kelas A 15 cm, lapis pondasi bawah kelas B atau kerikil alami 15 cm, untuk alternatif AC WC 4cm, AC BC 6 cm, LFA Kelas A 40 cm, untuk nilai kelompok sumbu sebesar  $0,59E+06$  didapatkan tebal lapis perkerasan, tebal pelat beton 26,5 cm, lapis pondasi bawah LMC 10 cm, dan lapis drainase 15 cm.

## ABSTRACT

The method used in this study is the MDP 2017 method by conducting field research using the DCP tool to determine soil carrying capacity (CBR), traffic survey data, and road geometry data.

The result of the calculation of the ESA5 value of  $0.59E + 06$  obtained the thickness of the HRS WC pavement layer 5 cm, class A foundation layer 15 cm, class B foundation layer or natural gravel 15 cm, for alternative AC WC 4cm, AC BC 6 cm, LFA Class A 40 cm, for the axis group value of  $0.59E+06$ , the thickness of the pavement layer, the thickness of the concrete plate is 26.5 cm, the LMC foundation layer is 10 cm, and the drainage layer is 15 cm.

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## 1. Pendahuluan

Dalam rangka meningkatkan dan mengembangkan kinerja jalan untuk pelaksanaan kegiatan pekerjaan konstruksi jalan untuk menjamin kualitas perkerasan jalan, perlu dilakukan pendekatan perencanaan dan perancangan perkerasan jalan. Manual desain perkerasan 2017 ini merupakan revisi dari manual desain perkerasan 2013 yang mencakup perubahan struktur presentasi untuk memudahkan pemahaman pengguna dan penambahan serta peningkatan konten manual. Manual Desain Perkerasan Jalan 2017 ini untuk mengakomodasi tantangan dan hambatan dalam kinerja aset jalan di Indonesia.

Beberapa jurnal tentang perhitungan ketebalan perkerasan jalan berdasarkan metode pavement design manual (MDP) 2013, dan analisis ketebalan perkerasan lentur jalan baru menggunakan manual desain perkerasan jalan (MDP) 2013, dan juga tentang penanganan kerusakan perkerasan jalan menggunakan manual desain perkerasan jalan MDP 2017. Ruas jalan yang akan ditinjau tidak menggunakan perkerasan lentur sehingga kami ingin menghitung seberapa tebal perkerasan lentur tersebut untuk perencanaan ketebalan perkerasan lentur terdapat beberapa jurnal seperti metode analisis komponen berdasarkan manual perencanaan dan No. SNI 1732-1989-f, dan metode pd t-01-2002-b.

Versi awal dari Manual Desain Perkerasan (MDP 2013) dikembangkan dengan bantuan Pemerintah Australia (AusAID), sebagai bagian dari kegiatan India 209/01. Selanjutnya, versi bahasa Indonesia dikembangkan melalui pertanyaan ekstensif oleh Direktorat Jenderal Bina Marga dan para ahli. Sejumlah bab

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