

ABSTRAK

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Program Studi : Teknik Sipil D – III
Judul Proyek Akhir : Analisis Stabilitas Dinding Penahan Tanah Tipe *Gravity Wall* (Studi Kasus Proyek Bina Insan Mulia Cirebon)

Analisis dalam proyek akhir ini bertujuan untuk mengetahui keamanan dinding penahan tanah yang direncanakan untuk menangani kelongsoran di Proyek Bina Insan Mulia Cirebon terhadap stabilitas penggulingan, penggeseran, dan keruntuhan kapasitas dukung tanah dengan pengaruh gempa tak dilibatkan.

Dari hasil analisis, disain awal dinding penahan tanah dengan tipe *gravity wall* dinyatakan aman terhadap penggeseran, penggulingan dan keruntuhan kapasitas dukung tanah. Dari hasil DPT dengan tinggi 2,5m, menahan timbunan 2m dan pondasi dimasukan setinggi 0,5m, lebar alas atas 0,3m, lebar telapak pondasi 1,25m.

Karena hasil cek stabilitas disain dinding penahan tanah dapat dinyatakan aman maka tidak dilakukan perencanaan disain ulang dinding penahan tanah pada proyek Pembangunan pondok pesantren Bina Insan Mulia Cirebon.

Kata Kunci :

Dinding penahan tanah, Stabilitas, *Gravity wall*

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The analysis in this final project aims to determine the safety of a retaining wall that is planned to handle landslides in Project Bina Insan Mulia Cirebon on the stability of overturning, shifting, and collapse of the bearing capacity of the soil with the effects of the earthquake are not involved.

From the results of the analysis, the initial design of the retaining wall with the gravity wall type was stated to be safe against shearing, overturning and collapse of the soil bearing capacity. From the results of the DPT with a height of 2.5m, it holds the embankment 2m and the foundation is inserted as high as 0.5m, the width of the base is 0.3m, the width of the footing is 1.25m.

Because the results of the stability check of the retaining wall design can be declared safe, there is no planning to redesign the retaining wall in the Islamic boarding school development project Bina Insan Mulia Cirebon.

Keywords :

Retaining wall, stability, Gravity wall