

ABSTRACT

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(xii + 70 + Attachment)

Soil is one of the important components needed in construction. Soil conditions also need to be considered at the time of planning in order to minimize the occurrence of landslides. One construction that can hold avalanches is a retaining wall. At this writing, a retaining wall planning is carried out using a soldier pile in a hospital building in the South Jakarta area. In the implementation of construction work, there are several obstacles in the field, namely landslides. The retaining wall in this paper is planned by using a soldier pile with dimensions of 80 cm and using 14D22 principal reinforcement and D16-150 spiral stirrups. The length of the soldier pile that is obtained is 22 m and the area to be installed by the soldier pile is 22 m in length where at that depth it has the consistency of petrified silt to clay silt. The budget plan obtained is based on the planning of a retaining wall using a soldier pile and an additional capping beam structure of Rp. 608,791,505.00

Keywords: retaining wall, soldier pile, RAB