

عنوان مقاله:

Investigation and Presentation of the Valuation Type Graphs and Plans to Design Protection System of Soldier Pile
Excavation Wall

محل انتشار:

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خلاصه مقاله:

In recent years with regard to development of our country different towns and thereby the necessity of special and deep excavations, many wall collapses were observed. The stability of excavation walls can be supplied by various methods depending on the conditions of land, depth and wall surrounding live loads. One of these methods is to use Soldier Pile system along with anchor bolt. The important advantages of this system is the significant reduction of occupied space by soldier structure and the reduction of time and running cost in big projects. Components design of this system depends on various parameters such as soil physical properties, including soil cohesion (C), angle of internal friction (ϕ), soil bulk density (γ) and excavation conditions including excavation height (H), fixed length (D), the amount of live load (ω) and anchor situations. This paper presents wide parametric studies by changing aforementioned parameters and uses Support IT software to analyze different states, type valuations graphs and running plans as the charts used by engineers in rapid designing of this system to stabilize excavation

کلمات کلیدی:

Protection system, soldier pile, design protection system

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