عنوان مقاله:

The effect of geogrid layers Layout shape on bearing capacity of strip foundations

محل انتشار:

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خلاصه مقاله:

In this research, a series of two-dimensional finite element models are performed to assess the benefits of layout shape of geogrid layers on the bearing capacity (BC) of a strip foundation in Plaxis finite element program. Geogrid layers were modeled with different shapes of rectangle, trapezoid, and Inverted-trapezoid. The results show that best angle for inverted trapezoid arrangement of geogrid layers to reach the maximum BC is ٣٠o while it is ١٣٥o for trapezoid arrangement of geogrid layers. The optimum arrangement of inverted trapezoid and trapezoid compared to .rectangular arrangement, improved BC of foundation 9.YY and ٣.YA%, respectively

کلمات کلیدی: Bearing Capacity, Strip Foundation, Geogrid, Layout Shape, Lean Clay

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