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*For situations where the rules of thumb or prescriptive code tables do not apply or where a more economical solution is possible, ... The design equations used later in this section are based on ACI-318 and principles of engineering mechanics as described below. ... (PTI, 1996) for expansive soil conditions. Pile Foundations*

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*The Mines guidelines for Minor/ASI can be found in the Undergraduate Information section of the Mines Catalog.. Civil or Environmental Engineering Minor and ASI ASI in Civil Engineering. Civil engineering is a closely related field to many majors on campus, including mechanical engineering, electrical engineering, petroleum engineering, geological engineering, and mining engineering.*

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*If we have SPT N-values for different soil ... related to industrial application in the field in soil and rock mechanics? ... in the soil under a foundation with an analytical solution.*

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*The CDG soil was compacted in layers (65–105 mm in thickness for each layer) to a dry density of 95% of the maximum dry density ( $\rho_{d\max} = 1.802 \text{ Mg/m}^3$ ), that is,  $\rho_d = 1.712 \text{ Mg/m}^3$ . The soil mass amount for each layer was weighed before being placed into the box, to achieve the required dry density.*

### **Soils & Geology in Construction from Construction ...**

*The Proctor test can be understood easily. A soil sample gets taken in the field and dried in the lab. The dry soil then gets divided into different piles, with each pile getting a different amount of water added. So at this point, the lab technician has several soil samples at ...*

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*soil weight over the footing:  $l$  ft This value is the balance of allowable soil pressure available to resist applied loads (dead, live, etc.) from the wall. Estimate the minimum base area of foundation based on unfactored forces and moments transmitted by wall foundation to soil. ACI 318-14 (13.3.1.1)  $10 \text{ 12.5 5.15 ft}^2 \text{ 4.37 service required } n P A q$*

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### **CHAPTER 3 ROAD DESIGN**

*A graphical solution to the problem is provided in ... in vertical height will require a slope designed by a specialist trained in soil mechanics or geological ... Limit analysis of stability of slopes. J. Soil Mechanics and Foundations Div., Proc. ASCE, Vol. 97, No. Sml, Proc. Paper 7828, Jan. 1971, pp . 19-26. Dietz, R ...*

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*Reinforced Concrete Mechanics and Design, 7th Edition, 2016, James Wight, Pearson, Example 15-2 spMats Engineering Software Program Manual v8.50, StructurePoint LLC., 2016 Design Data For column  $f_c' = 4,000$  psi normal weight concrete  $f_y = 60,000$  psi (8 #9 longitudinal reinforcement) For footing  $f_c' = 3,000$  psi normal weight concrete  $f_y$*

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