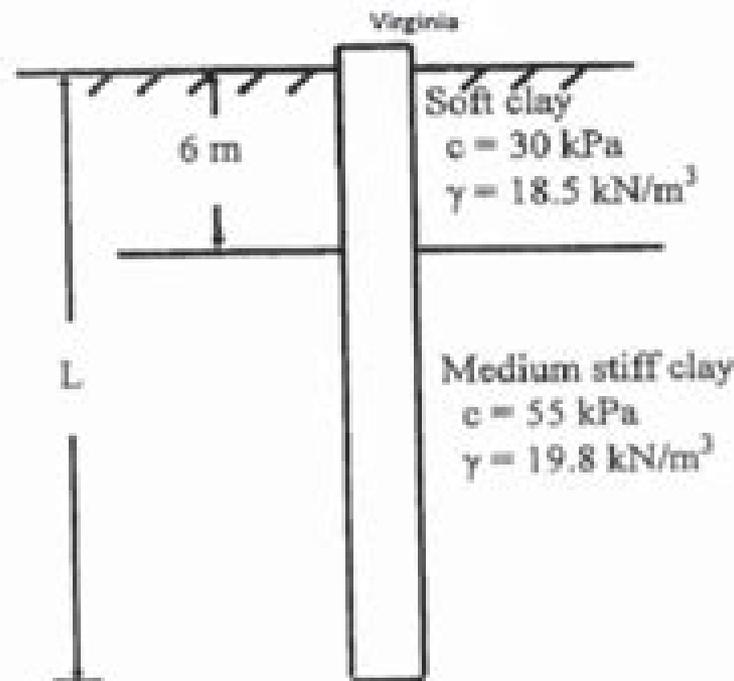


Problem 2

For the design of a pile foundation for a pier supporting a bridge across Virginia, soil samples were recovered from boreholes and laboratory tests were carried out. The results of the soil investigation at the test site are shown in Fig. 2. Two pile types are to be considered in the design, the first type is an H-pile of width 310-mm and the second is a 460-mm diameter steel pipe-pile, which has wall thickness of 12.7 mm and is to be filled with concrete. The axial load of the pier is 5 MN. The single pile design load is to be limited to 600 kN for driveability requirements.

- Use the results of soil investigation to calculate the required length of each of the piles. (use a factor of safety $FS=2.5$). (10 marks)
- Design the pile group foundation to support the pier (use a factor of safety $FS = 2.5$). Consider spacing to diameter ratio, $S/d = 3$. (5 marks)
- Calculate the settlement of the pile group using the approximate method for pile groups in cohesive soils assuming that the bedrock is at a depth 45 m from the ground surface (10 marks)



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