

# DEFINISI TANAH DI BIDANG TEKNIK SIPIL

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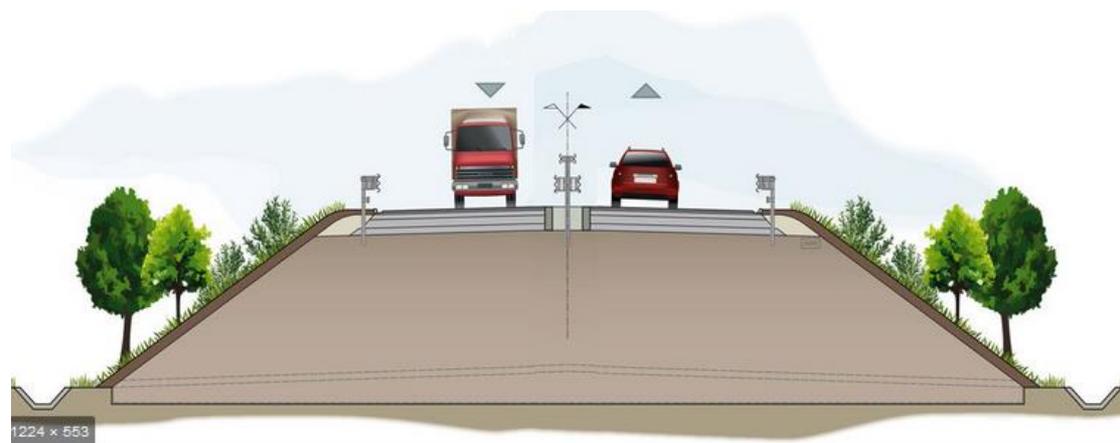
Kuliah 1

Mekanika Tanah I

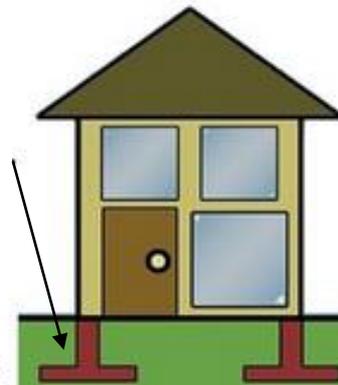
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# In civil engineering practice (on broad sense), soil is known as:

- Foundations to support structures and embankments

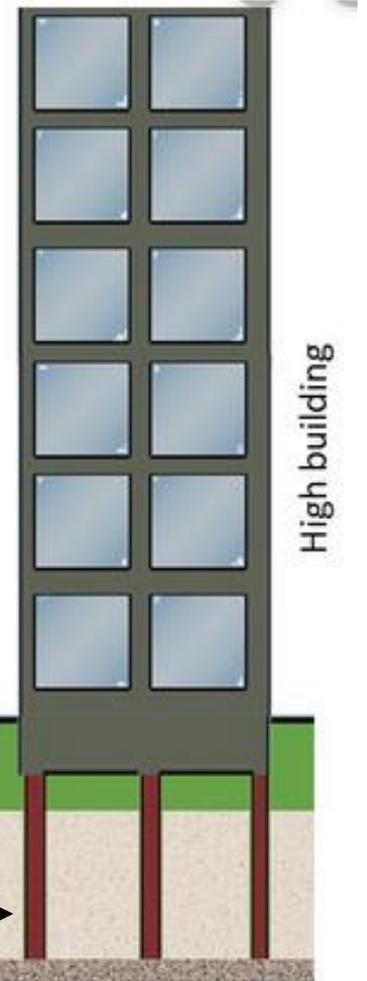


Shallow  
foundatio



Deep  
foundatio

n



In civil engineering practice  
(on broad sense), soil is known as:

Construction Material for:

- Dam
- Soil Reclamation
- Highway construction
- Slope and Excavation
- Underground
- Earth Retaining Structures



# Soil as Foundation:

In the design of any foundation, the focus was

- 1. to prevent the settlements large enough to damage the structures or impair its functions.
- 2. The allowable settlement depends on the size, type and use of structure, type of foundation and source of the settlement and the location of the structure.
- 3. In most cases, the critical settlement is not the total settlement but rather the differential settlement.

# Soil as Construction Material:

Soil could be used as construction material for road embankment, dam and even building.

The properties of soil as construction material could be designed (or modified) based on the requirements

The focus was to obtain a stable construction on top of foundation