

ENVELOP STARTS ON THE FOUNDATION

3-27-17

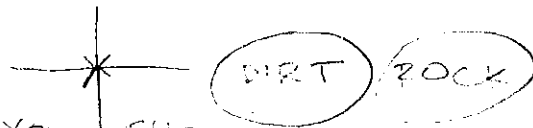
FOOTING

PCI-FOOTING

SPREAD THE LOAD INTO THE EARTH

CONCRETE

UNIFORM - EQUAL FORCE



BEFORE BUILDING A LOAD YOU SHOULD KNOW THE LOAD (DIRT, ROCK, EARTH)

GEO-TECHNICAL INVESTIGATION - COMPREHENSIVE

GEO-TECHNICAL ENGINEERING

EARTH CONDITION

DIFFERENT LAYER OF SOIL, ROCK, DIRT
 ← COMPRESSIVE RESISTANCE

A. BUILDING BEFORE SETTLEMENT OCCURS

B. UNIFORM SETTLEMENT

C. DIFFERENTIAL SETTLEMENT

CONSIDER THE FOLLOWING:

- 1. MUST BE ADEQUATE STRUCTURAL ANALYSIS
- 2. MUST NOT SETTLE DURING LIFE OF BUILDING IN SUCH A MANNER AS TO CAUSE DAMAGE TO STRUCTURE OR ADJACENT BUILDINGS
- 3. MUST BE FEASIBLE, ECONOMICAL & PRACTICAL (CONSIDER THE NEEDS OF NEIGHBORS)

FOOTING TYPES ARE CLASSIFIED ACCORDING TO:

- MATERIAL
- LOCATION

KNOW THE NATURE OF SOIL ON YOUR SITE.
 DON'T BUILD ON A POOR SOIL. KNOW THE NATURE OF THE SOIL.
 WHICH TYPE OF FOUNDATION WILL BE USED.
 FREQUENTLY.