

# BUILDING TECHNOLOGY LECTURE NOTES

## BUILDING AND STRUCTURES

### BUILDING

- A relatively permanent enclosed structure constructed over a plot of land for habital use
- Will not stand without the structural systems

### STRUCTURE

- Beam, Walls, Columns, etc.
- A stable assembly of structural elements designed and constructed to function as a whole in supporting and transmitting applied loads (ref D.K. Chong)

### PARTS OF A BUILDING

#### 1. FOUNDATION

- Lowest division of a building below the NGL designed to support and transmit the loads of the superstructure to the earth.

#### 2. SUBSTRUCTURE

- Slab on fill, slab on grade
- Basement
- Still habitable

#### 3. SUPERSTRUCTURE

- Vertical extension of a building or other construction above the foundation (D.K. Chong)

### TYPES OF SUBSTRUCTURE

#### 1. SLAB ON GRADE

- Concrete slab on top of the ground surface

#### 2. CRAWL SPACE

- Minimum height of 18 inches, or 0.45 meters
- Has height accessible for crawling

#### 3. BASEMENT

- Area that is partly or wholly built below ground level

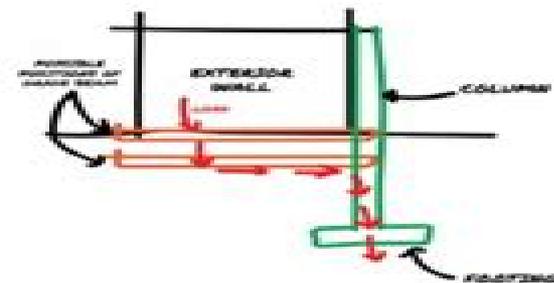
- **ROOF DECK** – Merly built for the purpose of future expansion

#### • FOUNDATION

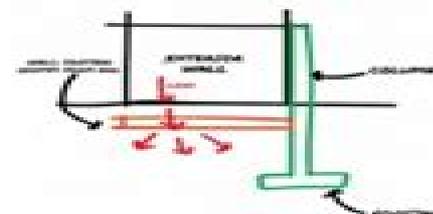
- Construction below grade
- Natural Material - condition of the soil
  - NGL – Natural Grade/Ground Line
  - Undisturbed soil ; compact soil
- Special Construction – System of foundation to be used: Footing, Pilots, Foundation Wall, shallow or deep foundation, etc ; system of construction to be adapted to transfer load to the ground

#### • TYPES OF FOUNDATION SPECIAL CONSTRUCTION

- a) Shallow Foundations – Footings ; Mat Foundation
- b) Deep Foundations – Piles
- c) Foundation Wall – Extended wall below graded line. Can be concrete, cbb, bricks, etc.
- d) Grade Beam – supports exterior wall of building, bears directly on the column ftg.



- a) Wall Footing – Strip (narrow footing). Usually 200-250mm thickness, 600mm depth from NGL; load direct to ground



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# Building Technology Lecture Notes Musikaore

**RD Boyd**



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