

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

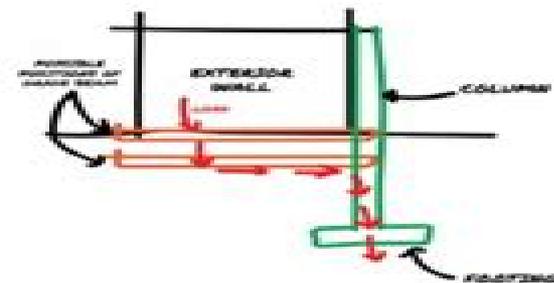
- **ROOF DECK** – Merly built for the purpose of future expansion

• FOUNDATION

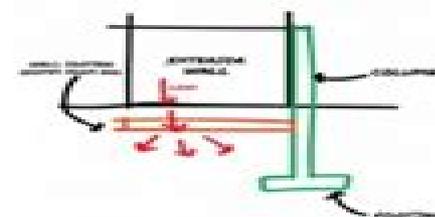
- Construction below grade
- Natural Material - condition of the soil
 - NGL – Natural Grade/Ground Line
 - Undisturbed soil ; compact soil
- Special Construction – System of foundation to be used: Footing, Pilots, Foundation Wall, shallow or deep foundation, etc ; system of construction to be adapted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



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Table of Contents Building Technology Lecture Notes Musikaore

1. Understanding the eBook Building Technology Lecture Notes Musikaore
 - The Rise of Digital Reading Building Technology Lecture Notes Musikaore
 - Advantages of eBooks Over Traditional Books
2. Identifying Building Technology Lecture Notes Musikaore
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Building Technology Lecture Notes Musikaore
 - User-Friendly Interface
4. Exploring eBook Recommendations from Building Technology Lecture Notes Musikaore
 - Personalized Recommendations
 - Building Technology Lecture Notes Musikaore User Reviews and Ratings
 - Building Technology Lecture Notes Musikaore and Bestseller Lists

5. Accessing Building Technology Lecture Notes Musikaore Free and Paid eBooks
 - Building Technology Lecture Notes Musikaore Public Domain eBooks
 - Building Technology Lecture Notes Musikaore eBook Subscription Services
 - Building Technology Lecture Notes Musikaore Budget-Friendly Options
6. Navigating Building Technology Lecture Notes Musikaore eBook Formats
 - ePub, PDF, MOBI, and More
 - Building Technology Lecture Notes Musikaore Compatibility with Devices
 - Building Technology Lecture Notes Musikaore Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Building Technology Lecture Notes Musikaore
 - Highlighting and Note-Taking Building Technology Lecture Notes Musikaore
 - Interactive Elements Building Technology Lecture Notes Musikaore
8. Staying Engaged with Building Technology Lecture Notes Musikaore
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Building Technology Lecture Notes Musikaore
9. Balancing eBooks and Physical Books Building Technology Lecture Notes Musikaore
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Building Technology Lecture Notes Musikaore
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Building Technology Lecture Notes Musikaore
 - Setting Reading Goals Building Technology Lecture Notes Musikaore
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Building Technology Lecture Notes Musikaore
 - Fact-Checking eBook Content of Building Technology Lecture Notes Musikaore
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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