

Name

Wajee Huddin

ID

7921

Subject

Auto cat

Date

22 Aug 2020

Q No 1

What is the important of various drawing in Building construction.

Ans

Types of Drawing used in Building Construction

Drawing are the most important things we need to start any construction project. There are different types of drawings for different purpose. We will discuss different types of construction drawing

(also known is working drawing.)

## Architectural Drawing

The types of drawing provide complete view of the building. It demonstrates the location of building and all building parts where they will be placed. There are different types of architectural drawings with different names such as plan, elevation, section etc.

## Structural Drawing

As the name suggests, this type of drawing provides information about structure, like strength of different structural elements, structural material grade, size, and amount of reinforcement etc.

## Electrical Drawing

This type of drawing provide the details and location of electrical wiring, fixtures, sub-station etc. the electrical load calculation is also given in the drawing.

## plumbing and sanitary Drawing

These Drawing give the location of sanitary, piping for water supply system fixture, and the process to connect every fixture

## Finishing drawing

This types of drawing contain the details of finishing and appearance of the building such as marbles tiles etc.

QNO2

How Structural Drawing help  
in construction in multi story  
building.

Ans Design of building  
= = component  
= =

→ Formwork design

→ Deep Beam

→ staircase design

→ Slabs

Excavation, layout and Foundation  
= = = =

Excavation is a process of making trenches by digging up of earth for the construction of foundations and basements

- Excavation level of escape site is 219.825 mm
- Excavation is done by the JCB on the hourly basis

Column and foundation steel is then laid as per drawings.

Column Casting

- ON the raft the column layout is done.
- layout for starter:

6

→ Displacement of main bars should be provided with L bar

→ The plumb of formwork should be checked.

→ Avoid caps as far as possible

Slab, Beam, Shuttering and Castig

→ Beam button is first laid on the column and then slab formwork is laid

→ A Camber of 5mm is provided in the center of slab

→ Castig of slab should be dis continuous at  $1/3$  from the support.

Qno 3

What are the various components of plumbing drawing

Ans Plumbing

These drawings show water supply and sewage system of any building.

There are three parts of plumbing drawings.

- water supply system
- water waste and waste removal system.
- plumbing fixture

waste water & waste  
Removal

waste water & other  
waste are carried to sanitary  
sewer or septic tank through  
the waste removal system

The drainage system is not  
under pressure and depends  
on gravity to carry the  
waste into the water

Soil stack that the  
drain water closets are  
called main stack

Traps  
 = The traps most commonly used with plumbing fixture is the p-trap

Trap are required because they prevent sewer gases from entering a building causing bad smell and serious illness or death.

House TRAP

Building trap are provided in the main building sewer it shall be provided with cleanout the vent or fresh air.