

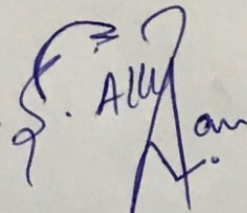
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SECTION "A"

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DATE 22 - August - 2020

STUDENT Sign 

Question No 1st:

WHAT IS THE IMPORTANCE OF VARIOUS TYPES OF DRAWINGS IN BUILDING CONSTRUCTION?

Answer:- Drawing:- Drawing is the graphical representation of any objects which may be a building, bridge, Road, Irrigation System etc.

• TYPES OF DRAWINGS:

- 1 * Structural drawings.
- 2 * plumbing drawings.
- 3 * Electrical drawings.
- 4 * Architectural drawings.
- 5 * Finishing Drawings.
- 6 * Air-conditional Drawings.

⇒ IMPORTANCE OF VARIOUS TYPES OF DRAWING IN BUILDING CONSTRUCTION.

1:- Architectural Drawings:

* → These drawings provide basic ideas of the building in design form with multi-dimensional virtual presentation.

* Major components of house architecture drawing are rooms, stores, dining room, bathroom, kitchen, TV lounge, stairs.

* These drawings are developed by architects.

2: STRUCTURAL DRAWING:-

These drawings are based on final architectural drawing which mainly show internal detail of the buildings.

* These internal details may include reinforcement for RCC buildings, Flooring details, Roof details.

* Main purpose of design building Structurally means that behavior of building flooring under the worst construction are specified for various components of structure such as foundation, footing, Plinth, beam, columns, Slab, Stairs etc.

3: ^{Electrical} ~~Planning~~ Drawings:

These Drawing show how the wiring is placed in building elements and indicating the position of fitting and fixture sockets, lights, fans etc.

4 Plumbing drawings:

These drawings are for public health showing water supply system and sewage system of the building indicating the placement of lines e.g GI, RCC etc.

* In water supply drawings hot & cold water lines are shown with location of geysers, taps, shower etc.

5: AIR-CONDITIONING (HVAC) DRAWING:

These drawing are ~~developed~~ developed for the building with centrally air conditioning system.

* placement of fresh air ducts and provision in structural elements.

Question NO 2nd: HOW STRUCTURAL DRAWINGS HELP IN CONSTRUCTION OF MULTI-STORY BUILDINGS.

Answer:- Because in multi story buildings a lot of casting take place for arrangement of different structure items. Means ~~to~~ how & where the proper position and place given to different rooms e.g. Bedrooms, Stair case, bathroom.

They help in easy determine the height of buildings and also show the height and width of beams & columns in a building.

Structural drawings show us

the amount of RCC &

~~con~~ and the ratio of concrete.
i.e

* which number of bar are used.

* How much bar are used.

* Show the length, depth, width are

in structural drawing.

⇒ In multi-story all story

have own details ~~in stru~~

& drawings and these drawings

indicated by these length of

buildings.

⇒ Show the height of all

stories of the building

⇒ In structural drawings
show us how much load
are loading on the buildings.

⇒ In structural drawings have
~~all stores~~ shows all stories
own details and dimension &
locations.

⇒ Show the internal details
of the buildings.

Question no 3rd

What are the various components of plumbings? Briefly describe each components.

Answer: Plumbings:

These drawings show water supply and sewage system of any building, indicating the placement of pipe lines e.g (G.I, UPVC, PVC)

⇒ There are three principal parts of plumbing system.

1. Water supply system.

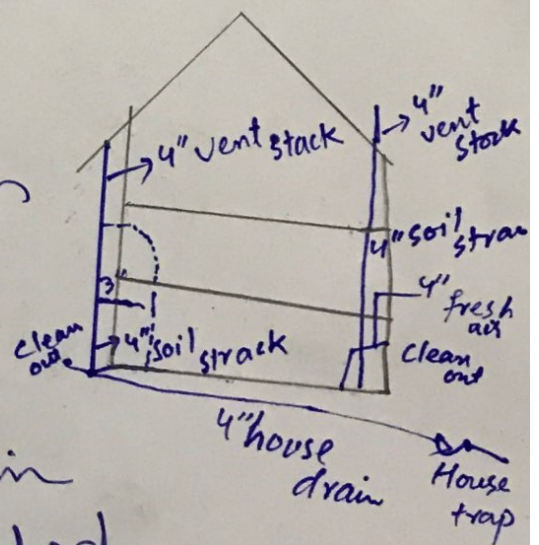
2. Waste water and waste removal system.

3. plumbing fixture.

⇒ Wastewater & waste Removal :-

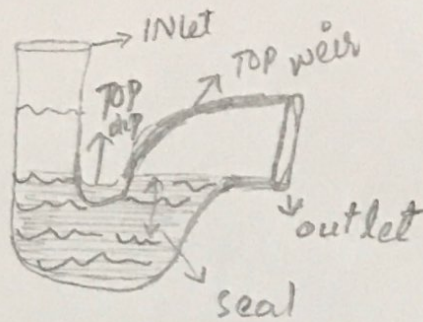
- * Wastewater and other waste are carried to the sanitary sewer or septic tank through the waste removal system.
- * These pipes are isolated from the water supply system and must be sized for sufficient capacity. Have proper stop and venting and have provisions for clearouts.
- * The drainage system is not under pressure and depends on gravity to carry the waste into the sewer.

→ * A vertical drain pipe that collect waste from one or more fixture is called a Soil stack.



→ * Soil stack that drain water closets are called main stack.

* Traps :

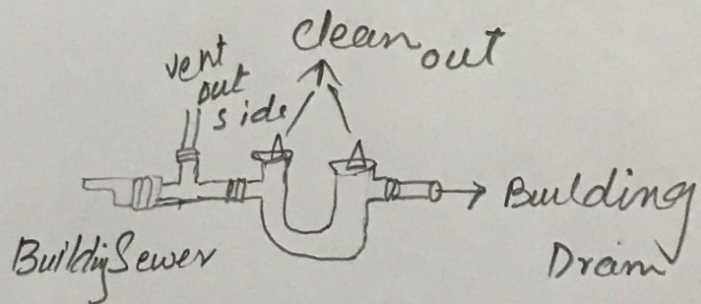


The traps most commonly used with plumbing fixtures is the P-trap.

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

* HOUSE TRAP :-

⇒ Building traps



are provided in the main building sewer.

It shall be provided with a

clean out the vent or fresh air intake on inlet side of trap.

* Soil Stacks & waste Stack:-

A soil stack is vertical drain pipe that carries soil waste from sanitary units. (i.e. toilets)

⇒ A waste stack is any other vertical drain pipe that does not carry soil from a sanitary fixture -

* plumbing air vents:-

⇒ Drain pipes remove water and waste from a building. The plumbing vent pipe also known as plumbing air vent remove gas and odors.

⇒ It also allows fresh air into plumbing system.

