

Roles and Responsibilities of Building Design and Architecture

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Abstract

Building design encompasses a wide range of architectural, engineering, and technological applications to the creation of structures. A building designer, usually a professional architect, is required for all construction projects. Building designers, draftspersons, interior designers (for interior fit-outs or renovations), and contractors frequently create smaller, less sophisticated projects that do not require the services of a qualified expert.

Keywords Building designers; Draftspersons; Interior designers

Description

A person who designs a structure or a home is known as an architect. Every design process is different, thus this basic step-by-step approach to the design process should only be used as a guide. The number of phases depends on the project's complexity and whether you're building a new house, remodeling, or simply making a few minor changes. The designing process of building having the following steps, they are mentioned in below

- Step 1: Preliminary research
- Step 2: Choose your designer
- Step 3: Site analysis
- Step 4: Design contract, price proposal, and brief development
- Step 5: Concept designs
- Step 6: Design development
- Step 7: Final design
- Step 8: Approval by the city council; planning and building certification
- Step 9: Design detailing

About the Study

Construction drawing

The phrase "construction drawing" refers to drawings that are part of the production information that is integrated into tender papers and later contract contracts for construction projects. The primary goal of construction drawings is to offer a visual picture of what will be constructed. The following groups of drawings can be used to categories all sorts of construction drawings

- Architectural drawings
- Structural drawings
- HVAC drawings
- Electrical and Plumbing drawings
- Firefighter drawings
- Miscellaneous drawings

Building Designers

Building designers collaborate with architects and must be innovative when it comes to their designs. They must be able to translate what a customer says into innovative structural draughts. Building rules and industrial standards must be understood on a practical level. Building designers should have a strong background in arithmetic, physics, and CAD. Designers must be open to changing plans and modifying draughts as requested by clients.

A building designer's tasks include

- Consultation with customers to establish the function, plans, and scale of the building
- Making recommendations on everything from the exterior appearance of the building to the internal design and how to remain within budget.
- Preliminary and final designs are presented.
- Assisting customers in the search for contractors and/or construction firms

Architect

To begin, architects must hold a bachelor's degree from an authorised university. The majority of them go on to get a master's degree and pass the Architect Registration Examination. Architects have the particular knowledge and creative talent required to not only design structures but also to produce construction requirements. They collaborate closely with drafters, contractors, and building inspectors to ensure that the structure complies with all local and state regulations. They are educated and qualified to oversee the construction of a structure from the earliest planning phase to the final nail pounding.

Job responsibilities of an architect include

- Clients, design team members, and construction managers are all involved in the design process.
- Providing preliminary cost, labour, and construction time estimates
- Visiting work locations on a regular basis to check on progress and meeting schedules

- Using freehand art or computer-aided drafting systems to create scaled drawings
- Keep up with current zoning rules and regulations, architectural trends, and product design.

Responsibilities of Building Designers vs. Architects

Building designers and architects are responsible for the design of buildings, homes, industries, and other structures. They jointly create

and finish draughts of the structure's appearance. Clients and building designers frequently meet to determine what the client need and what they wish to see. After that, the designer produces a draught that satisfies those requirements and notions. Architects ensure that what the building designer drew out on paper is functional, works, and complies with the building code.