

Guide To Construction Drawings



Higher Graphic Communication

CONSTRUCTIONS DRAWINGS

Construction projects require several types of specialised drawings. These collection of drawings are known as a **Project Set**, it includes the following drawings:-

- Location Plans
- Site Plans
- Floor Plans
- Elevations
- Sectional Views
- Rendered Illustrations

Any building drawing created must be in accordance to British Standards BSI, this allows allow interested parties able to **read and understand** the drawing, whether it be an architect, contractor and planning department etc.

LOCATION PLAN – SCALE 1:1250

The location plan shows the geographical location of the construction site. An entirely new development for housing will require a location plan to show it's location with regards to the surrounding area.



Example of Location Plan

Key Details of Location Plan

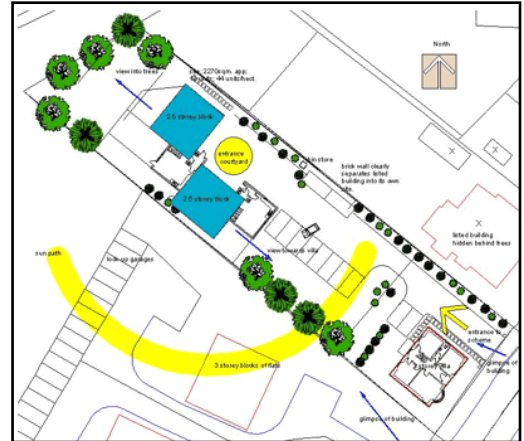
- Shows all neighbouring buildings and plot boundaries.
- Shows street names and house numbers.
- Shows roads, pavements, footpaths, parks and fields.
- Shows the position of North.
- Shows the scale of the drawing which is **1:1250**

SITE PLAN – SCALE 1:200

Site plans show a larger view of the plot highlighted in the location plan. The builder needs to show exactly where on the plot the building is to be constructed. The site plan allows the builder to mark out the site before digging trenches for foundations and drains.

Key Details of Site Plan

- Boundaries of the plot.
- The position of the building within the plot.
- Access paths.
- Drainage information for the removal of waste: pipe runs, manholes and main sewer location.
- Contour lines to indicate the direction and gradient of any sloping ground.
- Existing trees and positions of any new trees that are required.
- A North direction arrow.
- The scale of the drawing which is **1:200**



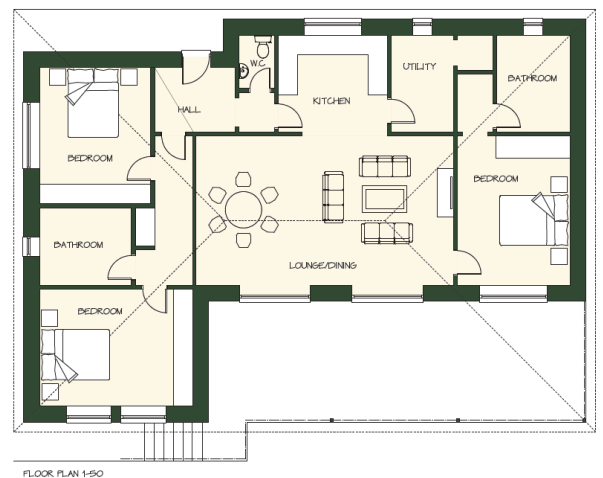
Example of Site Plan

FLOOR PLAN – SCALE 1:50

The floor plan is an internal view of the house from above. It gives information to all trades and customer to show position of windows, doors, room dimensions etc. For instance Floor plans often form the part of the promotional pack that customers get when they view a new house.

Key Details of Floor Plan

- The layout & dimensions of rooms inside the building.
- Position & dimensions of doors and windows.
- Layout of kitchen and bathroom fixtures and fittings.
- Lights, light switches, electrical sockets, electric cables and fuse boxes.
- The layout of water pipes (internal plumbing)
- The scale of the drawing which is **1:50**.



Example of Floor Plan

RENDERED ILLUSTRATIONS

Rendered illustrations are mainly used for **promotional purposes**, the marketing team might use such illustrations on their development leaflets, websites etc to help advertise and give a realism to the project.

To maximize the impact and realism of illustrations, these may be fully rendered and shown in mature surroundings; trees and shrubs are often included. The drawings can be computer generated or manually created either in 2D or 3D.








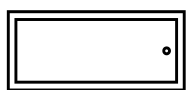




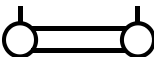



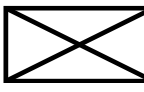

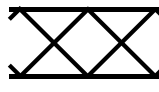








Key details of Promotional Illustrations

- External views of the building.
- Coloured and rendered views that are easily understood and appeal to customer.
- Simplified floor plans enabling the consumer to determine which size of house will best suit their family's needs.
- A new property in pleasant, mature surroundings.
- Text that explains the benefits of a particular property but does not get bogged down in technical details.
- Prices.

BUILDING DRAWING SYMBOLS

These symbols are drawn from BSI.

You **must** use the symbols and terms specified below.

Lamp	Switch	Socket	Radiator	
				
Shower tray	Bathtub	Wash basin	Sink	WC
				
Sinktop	Towel rail	Concrete	Brick work	
				
Door	Sawn timber	Insulated board	Block work	
				
Fixed window	Window — hinged at side	Window — hinged at top	Window — hinged at bottom	
				
Pivot-centre window	Window — sliding horizontally	Drainage	North sign	
				
Existing tree	Existing tree — to be removed	Proposed tree	Contours	
