Residential building drawing pdf

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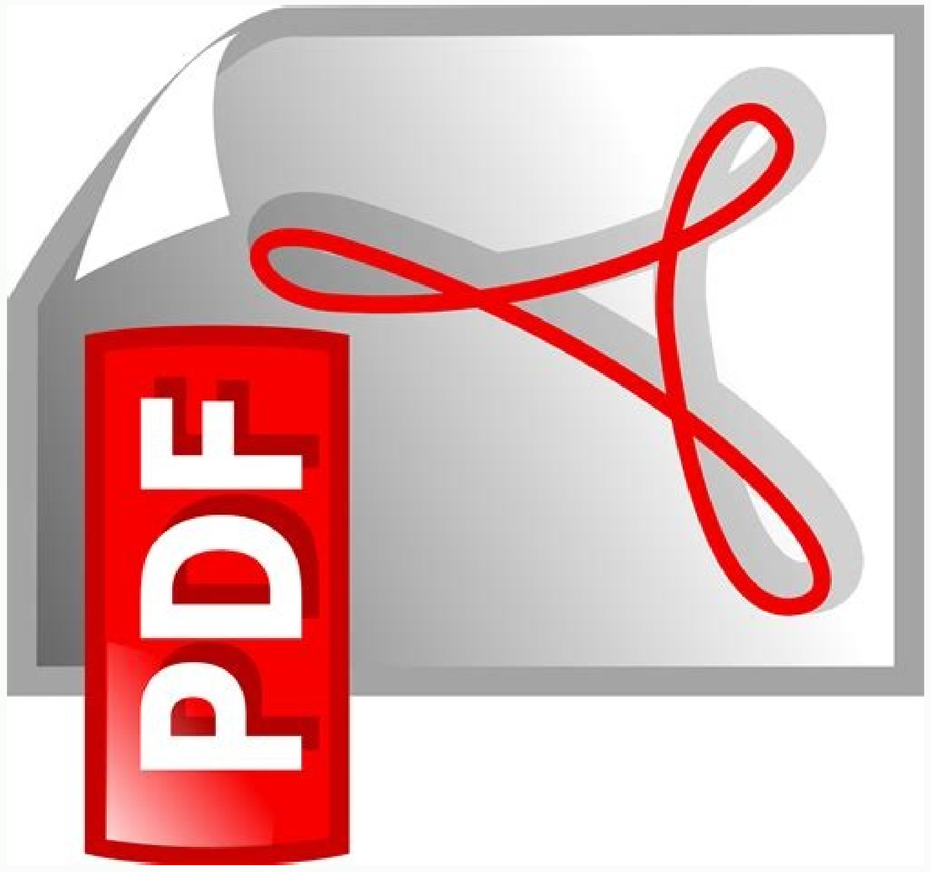
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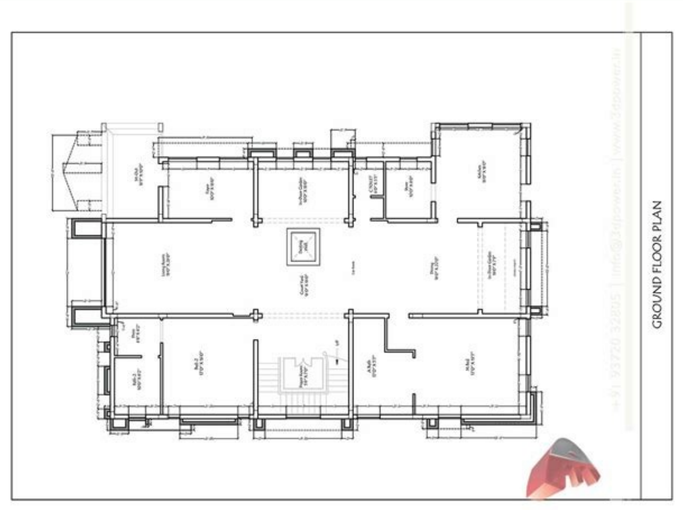
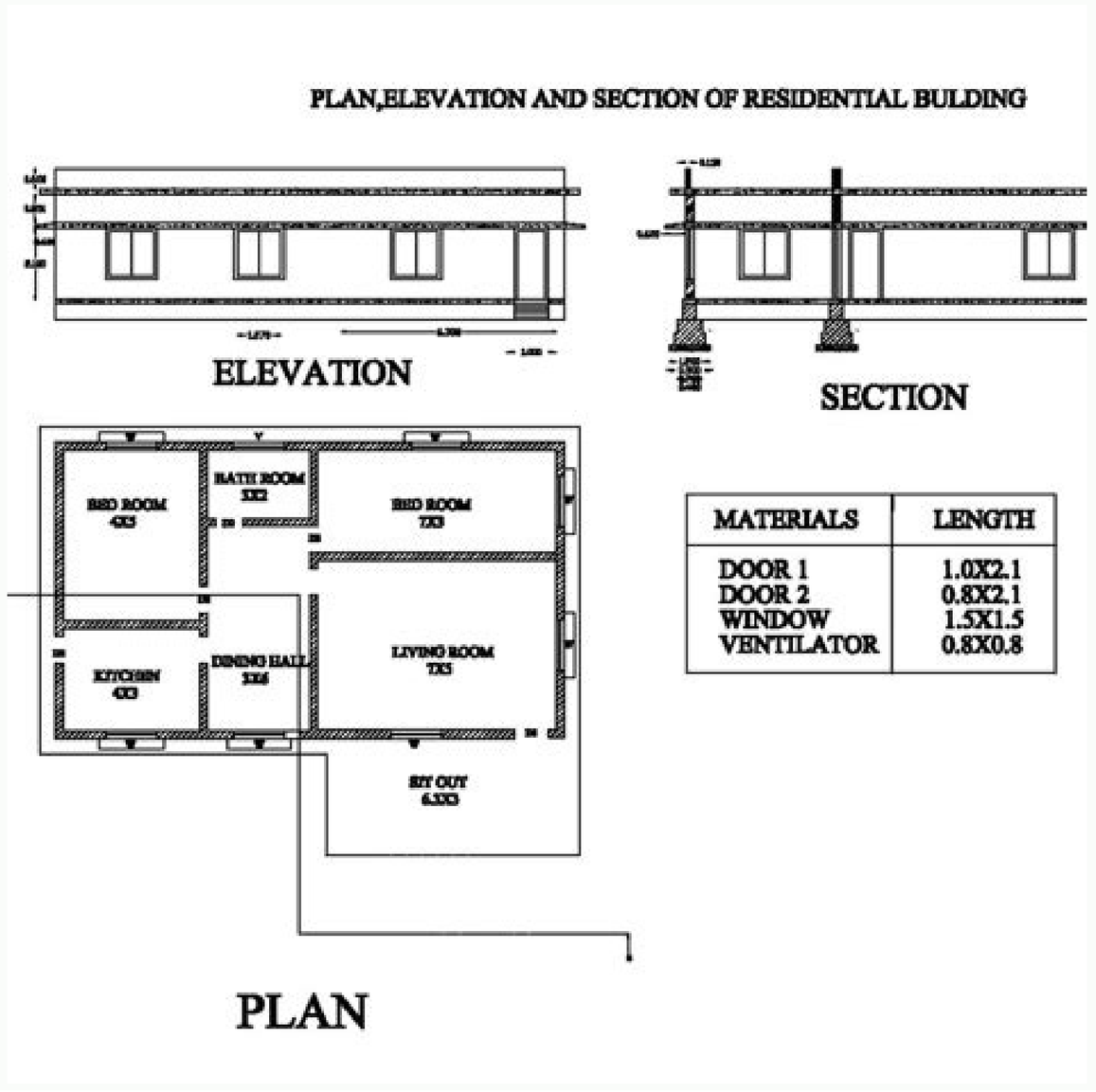

GROUND FLOOR PLAN


PLAN,ELEVATION AND SECTION OF RESIDENTIAL BULDING
ELEVATION
SECTION
BED ROOM 4X5
BATH ROOM 3X2
BED ROOM 7X5
KITCHEN 4X3
DINING HALL 3X6
LIVING ROOM 7X5
SIT OUT 6.3X3
PLAN
MATERIALS
LENGTH
DOOR 1
1.0X2.1
DOOR 2
0.8X2.1
WINDOW
1.5X1.5
VENTILATOR
0.8X0.8

Residential building drawing pdf. Structural drawing for residential building. 3d residential building drawing. Plumbing drawing of residential building pdf. Structural drawing for residential building pdf. Submission drawing of residential building pdf. Autocad electrical drawing for residential building pdf. Autocad electrical drawing for residential building.

How to Draw project house plan like a Architect S T E P 1 - Size of PlotSize of plot is defined with its length & the breadth.S T E P 2 - SetbacksSetback is defined as the open space in- between the compound wall & the wall of the house which is being planned for.S T E P 3 - Location & Width of the roadLocation & Width of the road will helps to assign a dedicated space for car entry, parking & exit along with entrance gate.S T E P 4 - North DirectionThe direction of north is the best to get an idea about the four cardinal directions (east, west, and north, south) which inversely helps in understanding the local climatic conditions throughout the year.S T E P 5 - Climatic informationA house needs to be responsive towards the climatic condition at any particular place If taken into consideration it will help in taking more calculated design initiatives for the house planning.S T E P 6 - Do R&D for sample Floor planA bit of online research on house planning and design may not be such a bad idea if it can give you some new perspective to look at modern house designs. Do check sites which showcase floor plans & designs for your region. For India we have:www.homeplansindia.comwww.housplansindia.in S T E P 7 - Divide Plot in GridsDraw the plot boundary and then divide the plot in two equal half on both directions, i.e. vertical and horizontal. Once done then draw similar lines about 2ft or 600mm apart from each other on both the directions. This way you have created an imaginary grid line for developing your house plan further.S T E P 8 - Make bubble Diagram (2/3 times)Once you have your drawing ready than list down your entire requirement for the house. Do mention tentative area as the requirement maybe. See example-Living room-Kitchen-Dining, etcAs listed above use these space on the drawing created before of the plot for placing the rooms as per your use and sense. Don’t worry too much in the beginning if certain room / spaces don’t complement each other. This is your first draft & not the final floor plan layout so don’t worry if it doesn’t look perfect. Have some patience and it will evolve with time.S T E P 9 - Draw the room layout with single lineOnce the bubble diagrams is more in order of your requirement then use a colored pen to firm up the lines to indicate walls (9 inch wall). Do show door openings of around 3 ft minimum & window openings which can be anything between 2fit to more. Use the grid below as guidelines for taking the size of the window. S T E P 10 - Draw with Double Line /thickness for WallsIn the next step place another tracing sheet on top of the original drawing and now consider the walls to be of 9inch thickness and convert those initial single lines to double wall lines. S T E P 11 - Draw DoorsIn a similar way as before indicate the door openings as and where required. Do cretin changes in the floor plan as required for accommodating entry to rooms / spaces. S T E P 12 - Draw Window OpeningsFollowing the same understanding as similar to doors indicate the window openings on the drawing. Do keep it in mind that cross ventilation is very important. Do check the wind direction for the plot also. Do take rainfall, snowfall & other climatic information under consideration. S T E P 13 - Use this Layout and draw them using an Online SoftwareOnce you have done this process twice or thrice by using a tracing sheet on top of the the initial floor plan layout then it’s time to evolve & develop the same. The best way is to use any computer generated drawing software which are widely available. Few of these house planning & drawing software’s which we recommended are: //planner.roomsketcher.com/ //www.sweethome3d.com/index.jsp T E P 14 - Place Furniture inside room to get a more realistic actual Idea about Internal spaceOnce you have transferred the hand drawn layout on to any of the above mentioned online home planning & drawing software, then it’s time to make good use of their furniture library. It quite usual that you will stumble upon an extensive set of furniture blocks of proper scale & size which once placed on the floor plan layout gives a more realistic idea about the floor plan. It may happen that certain furniture may look like that they consume lot of space or they are too little for a large room. This process takes time so do give yourself around 1or 2 hrs each day before you see something more fruitful & a realistic looking floor plan. Drawing a good house floor plan takes time so don’t be in a jiffy. Do remember that few hours of thought today will give you more calculated quality of space for your everyday living and for your investment for the House.Also a good thinking = A good house plan = Optimal use of your investment to build your house S T E P 15 - Then render/colors the layout to get at finish look of houseThe same software will also help you to colour the floor plans with the floor finish, carpet and other features that you want to consider for the house. This will make the layout look more presentable and readable. Construction drawings are used for a wide variety of reasons and applications in construction and architectural projects and activities.What is a construction drawing?It is a graphical representation of what will be built, how it will be laid out, the components, framework, and dimensions. There is a construction drawing highlighting the details for every aspect of a construction project.Construction Drawings including each of its subtypes are helpful to different groups of workforce assigned with doing or overlooking the various tasks that make up a construction project.How are construction drawings made?Rarely are construction plans drawn by hand anymore. They are either sketched and rendered using computer-aided drafting such as computer-aided design (CAD) software. And in recent times, Building Information Modeling (BIM) software has made it easy to render and visualize in detail the virtual construction models (VCM).To know more about BIM services, budgeting, and how they can benefit your project, reach out to us at Monarch Innovation for all queries, assistance, and collaborations.Top 10 most common types of Construction drawings use regularly in construction industries.1. Block PlanThis drawing gives a layout of the site or the buildings in the surrounding area, laid out on a map drawn to scale.It gives a firsthand idea of the roads, boundaries and other such details that are necessary to understand where your construction site lies.It helps the person dealing with your construction plan or project request to understand what and where you are proposing it and help you out with it too.Block plans are made in relation to Ordnance Survey Maps and the recommended scales used are 1:2500, 1:1250 or 1:500.2. Architectural DrawingsArchitectural Drawings are drawing work that is used in building drawings to depict the dimensions, depth, and layout of the actual building, prior to beginning the construction. Architectural Drawings act as a blueprint construction, drawn to scale, to help the engineers visualize the project.Various types of Architectural Drawings commonly used are:Foundation plan – not to be mistaken for just the ground or basement floor plan. Foundation Plans are drawing work to render any of the floors of the building being constructed. They help visualize the dimension, size, shape, height and configuration of rooms/stairs/landings with each other.Floor plans – in-depth rendering of the layout of the rooms for each floor. It describes in 2D the orientation of rooms and components to each other. Floor plans may or may not be utilized in commercial or non-commercial building projects, but it is necessarily still made as part of the drawing work.Sectional Drawings – these are drawings that depict a part or whole of the framework in sliced form. It helps understand the measurements of various building components with each other, the materials used in the construction of those components, the height, depth, and hollowness, etc.Elevation Drawings – these architectural drawings offer an aesthetic overview of the various components of the building such as columns, windows, and doorframes. It also helps understand the relative surface, internal markings, and relative height of these different components to each other.3. Production DrawingsThese Construction Drawings are used to convey functional information to the workers and engineers on site. It describes the materials, the assembly of various parts, the tools required, the dimensions, and other information required during the process. It may also include additional information or an infographic on how to meet those set requirements.4. Structural DrawingsStructural Drawings also serve as civil engineering drawings. They are useful in understanding the physical nitty-gritty of a building framework. They act as a structural design guide for the workers and on-site engineers. Common types of structural drawings are:General Note – an overview of all the codes, procedures, and abbreviations, etc required to give a comprehensive guide to getting to work on the construction site. This includes concrete mix, details for other structural drawings, lengths and construction types of each component, etc.Excavation Drawing – this civil engineering drawing describes the dimensions and positions for the excavation process prior to the actual building work. It covers details like tunneling, shafts, removal of soil, grid plans, etc required to start the groundwork.Column Layouts – These structural drawings include the layouts of the way columns will be laid out. It makes it easier for contractors to plan the layout of the building and start the process by identifying the position and distance between columns across the floor.Beam Layouts – It includes all the beam-like structures, such as the ones supporting the roof and the windows, or the beams used for strengthening purposes. They are designed for each floor and cover the length, height, material, etc.Roof slab layouts – this civil engineering drawing describes the exact dimensions of all the slabs required for roofs or slants. It can be designed over AutoCAD software as it requires precision and data.5. Electrical drawingsMost residential construction drawings or commercial construction drawings require a functional outline of the number of power outlets, light fixtures, fan fixtures, etc. They also include the wiring pattern and details about the electrical load it can carry. Common details included in Electrical Drawings are:Earthing layoutLight fixture layoutGenerator and other equipmentCable tray layoutHazardous area classificationsLighting protection system6. Plumbing DrawingsJust like electrical layouts, plumbing is another part of any residential or commercial construction drawing that marks the points where plumbing components need to be set up. Space is left here accordingly for further pipe and sanitary ware fixtures to be added once the structural component is finished. Plumbing drawings commonly include:Pipes –water pipes, drainage pipes, internal pipesMaterial of pipesOutlet points – taps, sinks, tanks etcPosition and location of pipes and outlets7. HVAC DrawingsThese are known as mechanical construction drawings. They provide details and a design framework for heating and ventilation systems in a building. Central heating/cooling, air conditioning vents, ventilators, etc are all included according to the need and site of the building plans. Builders use these design constructs in their process accordingly.8. Firefighting DrawingsIn today’s construction systems, safety design is paramount. Firefight Drawings are also a part of blueprint drawings of a building that allocate points for fire hoses, fire escapes, water outlets, sandbags, or any other fire safety equipment required by the regulatory body overseeing the project.9. Environmental PlansMaking sure environmental guidelines and management is properly followed is a part of construction projects that cannot be overlooked. The aim is to minimize environmental damage and future negative impacts of the construction project. It includes measures like:Chemical disposal mechanismsManagement of erosion and sedimentationOutlining environmental guideline compliance measuresMeasures to handle accidents and emergencies like fire10. Finishing DrawingsThese include finer and more detailed plans of the building after the whole structural and architectural framework has been set up. These are required for the aesthetic and functional value of the building. These construction drawings include details of:Tile patterns,Floor patternsFalse ceilingsPaint colors and texturesPlasterWoodworkMotifs and designsTo get professional advice and assistance on your construction projects, contact us at Monarch Innovation for our host of BIM, Building Design, and Mechanical Engineering services. Backed up by experience in this field, we would be happy to help you get insights, in-depth analysis, and coordinate your project plans to make the process hassle-free.FAQsWhat are construction drawings? Construction Drawings are a graphical representation of what will be built, how it will be laid out, the components, framework and dimensions. There is a construction drawing highlighting the details for every aspect of a construction project. What are the different types of construction drawings? Below are the set of basic drawings included in Construction drawings:1. Elevation drawings – These drawings offer an overview of the individual components that make up the structure, plus the structure as a whole. 2. Sections – Sections are slices of the building, to showcase the inner dimensions. 3. Floor Plans – The rendering of each of the floors in a building, which lays out the rooms, the doors, the positioning of the stairs, windows, columns, kitchen, slabs, etc all in 1D. It helps one to understand the orientation of the rooms and other physical structures that make up the floor.4. Details – As the name suggests, these are drawings that focus more on individual components of a building, in detail. What are architectural construction drawings? Architectural Construction Drawings are drawing work that is used in building drawings to depict the dimensions, depth and layout of the actual building, prior to beginning the construction. Architectural Drawings act as a blueprint construction, drawn to scale, to help the engineers visualize the project. How to make construction drawings? Construction drawings usually include a set of working drawings that cover different aspects of the project plan. These drawings usually comprise Elevation drawings, Floor Plans, Sections and Detail Drawings.

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