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We Design, Construct, Decorate and Maintain Structures.

NETWORKING & IT SOLUTIONS | *part 1*

MULTIMEDIA & GRAPHICS DESIGN | *part 2*

ARCHITECTURAL & STRUCTURAL DESIGN | *part 3*

CONSTRUCTION & RENOVATION | *part 4*



ABOUT US



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& WE STRIVE HARD FOR CUSTOMERS' SATISFACTION

iCONNECTsolutions is a complete solution provider in the field of IT SOLUTIONS, Multimedia, Building Design, Detailing and Construction. With our professional experience and expertise, we take pride in providing satisfying services.

We try our best to make our customers satisfy; Customer satisfaction is what we keep at utmost priority and the quality of the job is carefully monitored throughout the process.

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Part.1

NETWORKING & IT SOLUTIONS

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CCTV |

INTERCOM |

BIOMETRIC |

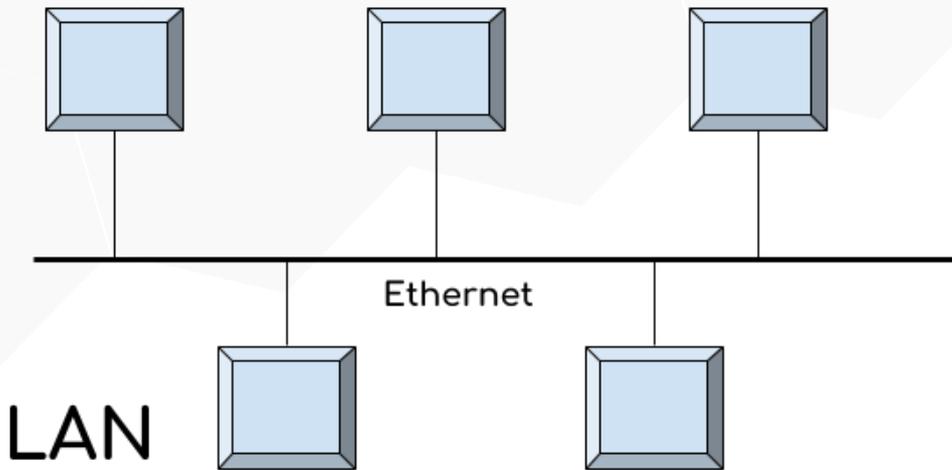
LAN |

WAN |

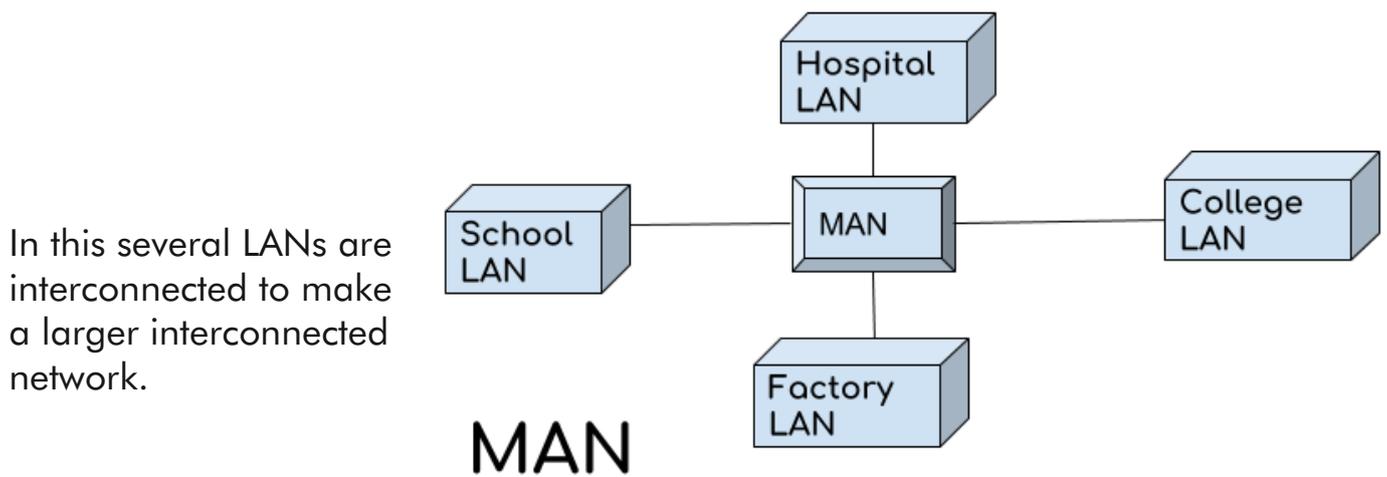
ALL IT SOLUTIONS |



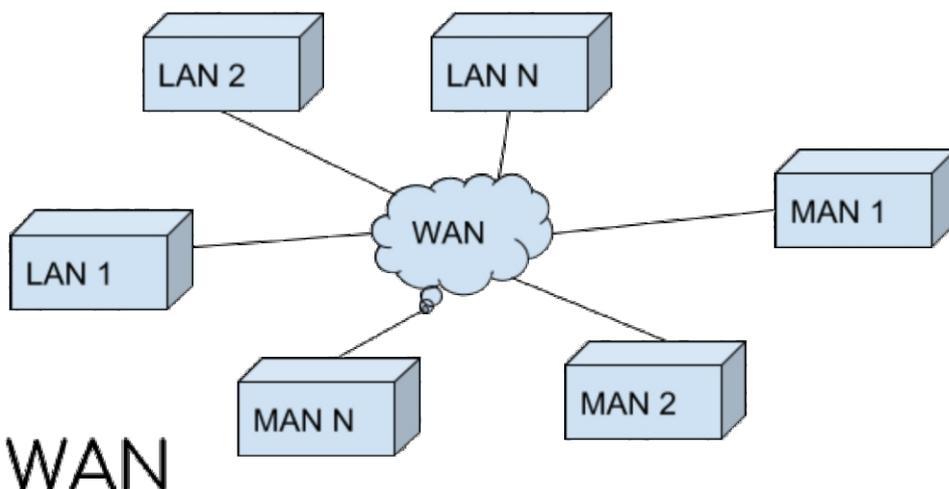
COMPUTER NETWORKING



In this several computers are interconnected to form a network.



In this several LANs are interconnected to make a larger interconnected network.



In this several LANs and/or MANs are interconnected to form a large network



A CCTV security system is essential for any type of business or public organization. Therefore it's vital to select the right CCTV camera for the right location and application.

There are lots of CCTV cameras to choose from on the market today, with many different features and options, resulting in a confusing array of various types, styles, and configurations. But which is best for your intended business security application?

TYPES OF CCTV CAMERAS

1. Dome CCTV Camera

Dome CCTV Cameras are most commonly used for indoor security and surveillance applications. Dome cameras get their name from the dome-shaped housing in which they sit. These housings are designed to make the CCTV cameras unobtrusive... not covert or hidden. Typical applications are retail, where the camera is designed to be unobtrusive, but visible.



The "dome" shape makes it difficult to tell the direction that these cameras are facing, and thus are ideal for deterring criminals. The "bad guys" will know the facility is being watched and customers will feel at ease knowing the facility is being protected. Units that allow the camera to pan/tilt/zoom and spin quickly within the housing are often referred to as "speed domes."

Speed Dome CCTV cameras give the surveillance operator the ability to move the camera. There are cameras that have automated pan/tilt/zoom functionality where the camera is moving on a timed basis. These are used to cover a wide area with only one camera, or to avoid poor light conditions at certain times of day.

2. Bullet CCTV Camera

Bullet CCTV Cameras have a long, cylindrical, and tapered shape, similar to that of a "rifle bullet", often used in applications that require long distance viewing. The camera is not typically designed to have pan/tilt/zoom control but instead to capture images from a fixed location, pointing at a particular area.

A bullet CCTV camera is a wall-mount or ceiling-mounted unit that is typically designed for indoor use, but can also be used for some outdoor applications. Many bullet cameras can also be waterproof by being installed inside protective casings, which protect against dust, dirt, rain, hail and other harmful elements.

3. C-Mount CCTV Camera

C-mount CCTV cameras have detachable lenses to fit different applications. Standard CCTV camera lenses can only cover distances of between 35 and 40ft, therefore with C-mount CCTV cameras, it is possible to use special lenses, which can cover distances greater than 40ft.

4. Day/Night CCTV Camera

The day/night CCTV cameras have the distinct advantage of operating in both normal and poorly-lit environments. These cameras do not have Infrared illuminators because they can capture clear video images in varying light conditions and in the dark.

The camera is ideal for outdoor surveillance applications, where Infrared CCTV cameras cannot function optimally. These CCTV cameras are primarily used in outdoor applications and they can have a wide dynamic range to function in glare, direct sunlight, reflections and strong back light 24/7.

5. Infrared/Night Vision CCTV Camera

These night-vision CCTV cameras have the ability to see images in pitch black conditions using Infrared LEDs and are ideal in outside conditions where lighting is poor to zero.



6. Network/IP CCTV Camera

These cameras, both hardwired and wireless, transmit images over the Internet, often compressing the bandwidth so as not to overwhelm the web. IP cameras are easier to install than analog cameras because they do not require a separate cable run or power boost to send images over a longer distance.

7. Wireless CCTV Camera

Not all wireless cameras are IP-based. Some wireless cameras can use alternative modes of wireless transmission. But no matter what the transmission method, the primary benefit to these units is still the same: extreme flexibility in installation.

8. High-Definition HD CCTV Camera

Ultra high-definition cameras are often relegated to niche markets, such as casinos and banks. These give the operators the ability to zoom in with extreme clarity (to look at a poker player who might have something up their sleeve).

9. Pan Tilt Zoom (PTZ) Camera

It is possible to pan, tilt, and zoom PTZ cameras. It gives a surveillance operator the freedom to pan, tilt and zooms the lens. You can manually control these cameras or program them to follow an accurate view of things. Since these cameras can be monitored using live controls, they are employed in highly sensitive zones where live monitoring is required. Expensive PTZ Cameras are to achieve responsiveness



INTERCOM



If you're considering installing an intercom system in your property, you are making the right steps in protecting your home or business. Intercom systems are the perfect way to secure the home from theft and to protect your family and your valuables.

You'll now be able to talk to the person at your door before you even open it and in some cases, even see them too. With these 5 different types of intercom systems, you'll have all kinds of options to protect your home in the way you need most. Take a look at the various intercom systems available.

1. Wireless unit

A wireless unit is a newer take on the original hard-wired intercom system. The wireless intercom uses a different type of radio frequency and tends to be less expensive than other options. There is basically no installation required which means you can start using them right out of the box.



Just make sure the battery is up to date and be aware of the range of a wireless unit. While these are convenient to install, they can sometimes have interference issues and a lack of a wide range that you may need. In some cases, an unauthorized person could potentially tune-in to your frequency. With the ease of use and the low price point around \$100-\$200, it's a great option to consider.

2. Hard-wired intercom

The most common intercom option is going to be the hard-wired unit that you can mount inside the home. These work by allowing you to communicate with someone at the front door just by pressing a button to speak and then your intercom speakers are connected by wire in the home.

You may pay a little bit more for this type of unit, but it's much more reliable in avoiding external interferences and handling more wear and tear. The audio signal works well, making communication much clearer and you can worry less about if your property is protected. If you are in the middle of construction on a building, it would be very simple to set up a wired unit. Talk to a professional about getting this installed.

3. Video Intercom

Another option is to get a video intercom. This is for homes that want the option to see a visitor that is at the door before communicating with them. They are typically going to be wired systems since video is more difficult to send wirelessly than an audio-only system would be.

You can also go for smart home technology that will allow you to incorporate a camera into your intercom system. You'll be able to connect your devices and appliances to the internet to give you functionality of your home's processes from your device.

You could use a smartphone or tablet to lock the front door, turn off the lights, or change your thermostat. This means that you can also incorporate a webcam to your front door that can be accessed with your other smart home technology. You will have to have a good internet connection to do this successfully and it does have the potential for hacking vulnerability, but you have remote access.

4. Carrier-Current

A carrier-current is an intercom that would be integrated into the electrical system of your home. This is another frugal option for an intercom system where you could have a conversation with someone at your front door. It's easy to install and maintain but you may find other options provide better audio quality.

5. Automatic-gate entry intercom unit

Do you have many visitors and hate to have to stop what you're doing to let them in? Now you can use the automatic-gate entry intercom to let people into your residential front gate without being physically present. Just press the button to let them in the door. In many cases, you'll have a small camera at the gate to be able to see who is at the front gate. You'll be able to see, talk to, and open entry for a visitor from inside the home.



BIOMETRIC



Biometrics are used to identify his or her physical and behavior characteristics of a person. This method of identification is chosen over traditional methods, including PIN numbers and passwords for its exactness and case sensitiveness. Based on the designing, this system can be used as an identification system or authentication system. These systems are divided into various types which includes vein pattern, fingerprints, hand geometry, DNA, voice pattern, iris pattern, signature dynamics and face detection. This article discusses about what is biometric sensor, different types of biometric sensors and its working.

1. Fingerprint Recognition

It includes taking a fingerprint image of a person and records its features like arches, whorls, and loops along with the outlines of edges, minutiae and furrows. Matching of the Fingerprint can be attained in three ways, such as minutiae, correlation and ridge

- Minutiae based fingerprint matching stores a plane includes a set of points and the set of points are corresponding in the template and the i/p minutiae.
- Correlation based fingerprint matching overlays two fingerprint images and association between equivalent pixels is calculated.
- Ridge feature based fingerprint matching is an innovative method that captures ridges, as minutiae based fingerprint capturing of the fingerprint images is difficult in low quality.

To capture the fingerprints, present methods employ optical sensors that use a CMOS image sensor or CCD; solid state sensors work on the principle of transducer technology using thermal, capacitive, piezoelectric sensors or electric field ; or ultrasound sensors work on echography in which the sensor sends acoustic signals through the transmitter near the finger and captures the signals in the receiver. Scanning of the fingerprint is very stable and also reliable. It safeguards entry devices for building door locks and access of computer network are becoming more mutual. At present, a small number of banks have initiated using fingerprint readers for approval at ATMs.



BIOMETRIC

2. Face Recognition

Face recognition system is a one type of biometric computer application which can identify or verify a person from a digital image by comparing and analyzing patterns. These biometric systems are used in security systems. Present facial recognition systems work with face prints and these systems can recognize 80 nodal points on a human face. Nodal points are nothing but end points used to measure variables on a person's face, which includes the length and width of the nose, cheekbone shape and the eye socket depth.

Face recognition systems work by capturing data for the nodal points on a digital image of a person's face and resulting data can be stored as a face print. When the conditions are favorable, these systems use a face prints to identify accurately. Currently, these systems focus on smartphone applications which include personal marketing, social networking and image tagging purposes. Social sites like FB uses software for face recognition to tag the users in photographs. This software also increases marketing personalization. For instance, billboards have been designed with integrated software that recognizes the ethnicity, gender and estimated age of onlookers to deliver targeted marketing.

3. Iris Recognition

Iris recognition is a one type of bio-metric method used to identify the people based on single patterns in the region of ring shaped surrounded the pupil of the eye. Generally, the iris has a blue, brown, gray or green color with difficult patterns which are noticeable upon close inspection.

4. Voice Recognition

Voice recognition technology is used to produce speech patterns by combining behavioral and physiological factors that can be captured by processing the speech technology. The most important properties used for speech authentication are nasal tone, fundamental frequency, inflection, cadence. Voice recognition can be separated into different categories based on the kind of authentication domain, such as a fixed text method, in the text dependent method, the text independent method and conversational technique.

5. Signature Recognition

Signature recognition is a one type of biometric method used to analyze and measure the physical activity of signing like the pressure applied, stroke order and the speed. Some biometrics are used to compare visual images of signatures. Signature recognition can be operated in two different ways, such as static and dynamic.

In static mode, consumers write their signature on paper, digitize it through a camera or an optical scanner. This system identifies the signature examining its shape. In dynamic mode, consumers write their signature in a tablet which is digitized, that obtains the signature in real time. Another option is the gaining by means of stylus-operated PDAs. Some biometrics also operate with smart-phones with a capacitive screen, where consumers can sign using a pen or a finger. This type of recognition is also known as "on-line".



PROJECTS COMPLETED



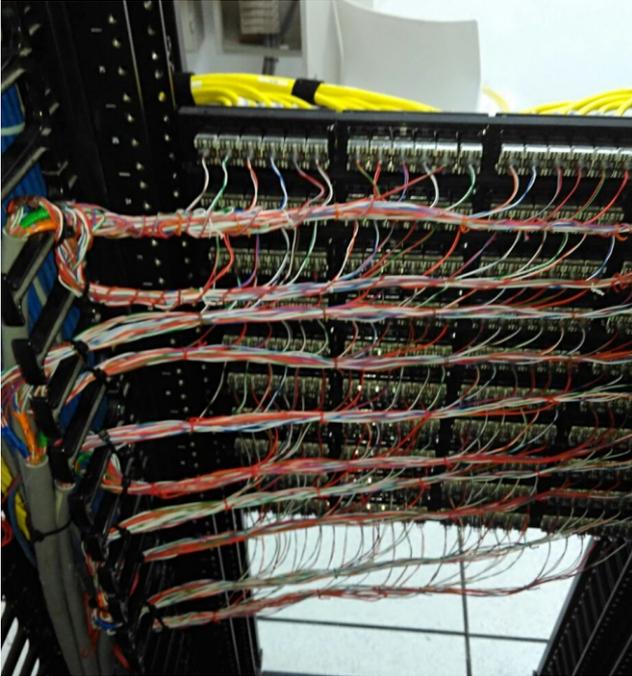
Rack termination with data and voice at PANASONIC



Rack termination with data and voice at DURGA STEEL INDUSTRY



PROJECTS COMPLETED



Patch cards dressing in patch panel at MOODY'S

Intercom Back panel dressing of laser cables at MOODY'S



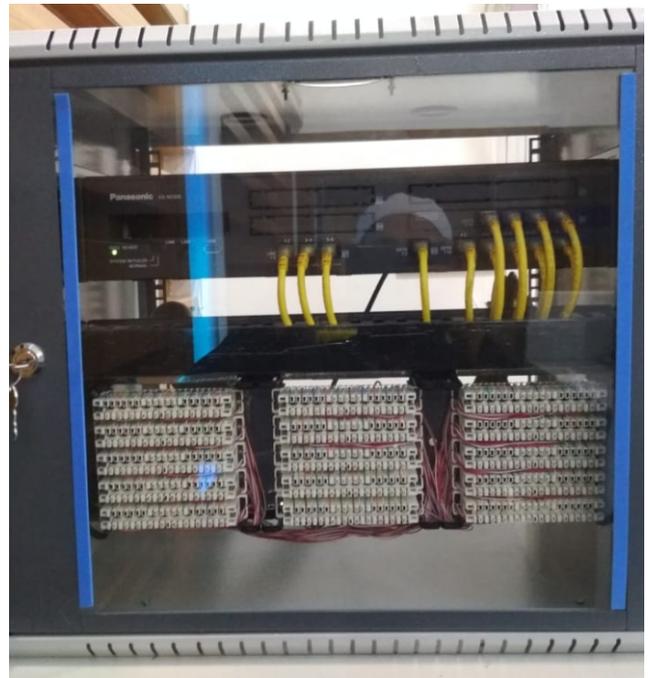


PROJECTS COMPLETED



Intercom termination with krone connectors at MOODY'S

Intercom termination in rack at PLEXUS HOSPITAL, Neuro and stem cell research centre



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Part.2

MULTIMEDIA & GRAPHICS DESIGN

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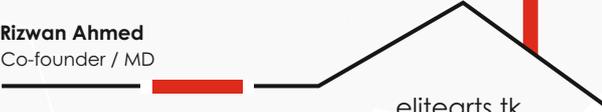


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Rizwan Ahmed
Co-founder / MD



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.....and many more are done in the multimedia design career of four years.....



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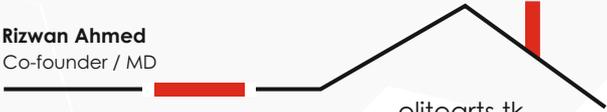
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VISITING/BUSINESS CARDS

Rizwan Ahmed
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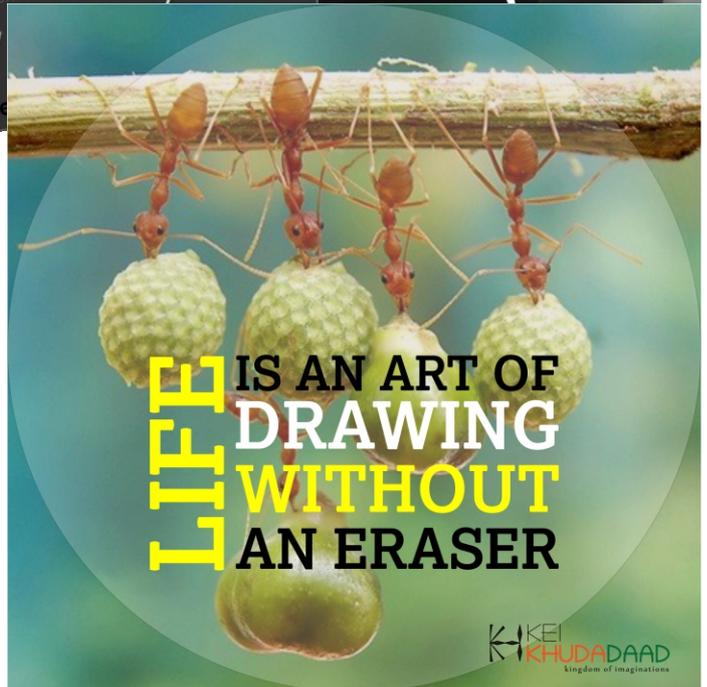
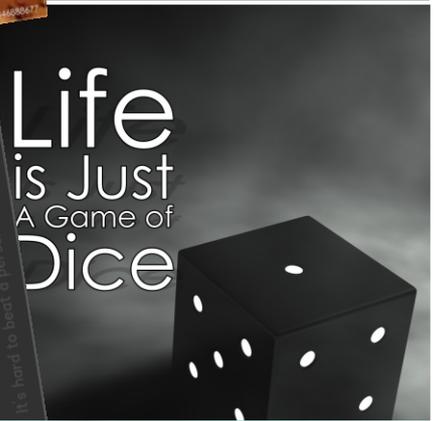
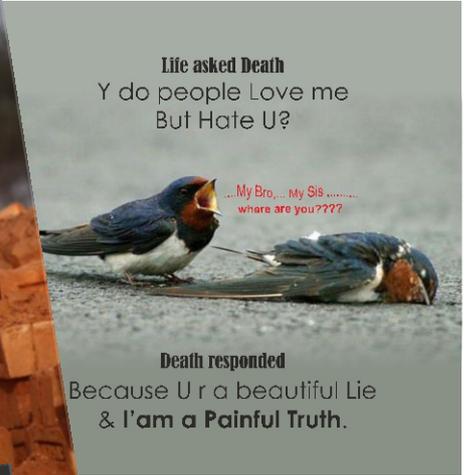
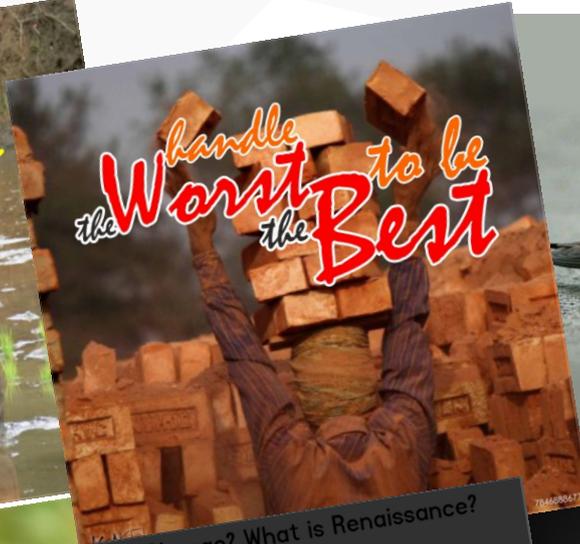
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Part.3

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2D & 3D Floor Plans |

2D & 3D Ceiling Plans |

2D & 3D Exterior Elevations |

2D & 3D Interior Elevations |

2D & 3D Landscape Plans |

Structural Design and Detailing |



2D/3D SITE PLANS



Site plan is comprehensive detailed drawing of the building or an apartment representing whole plan of a building. It shows property boundaries and means of access to the site, and nearby structures if they are relevant to the design.

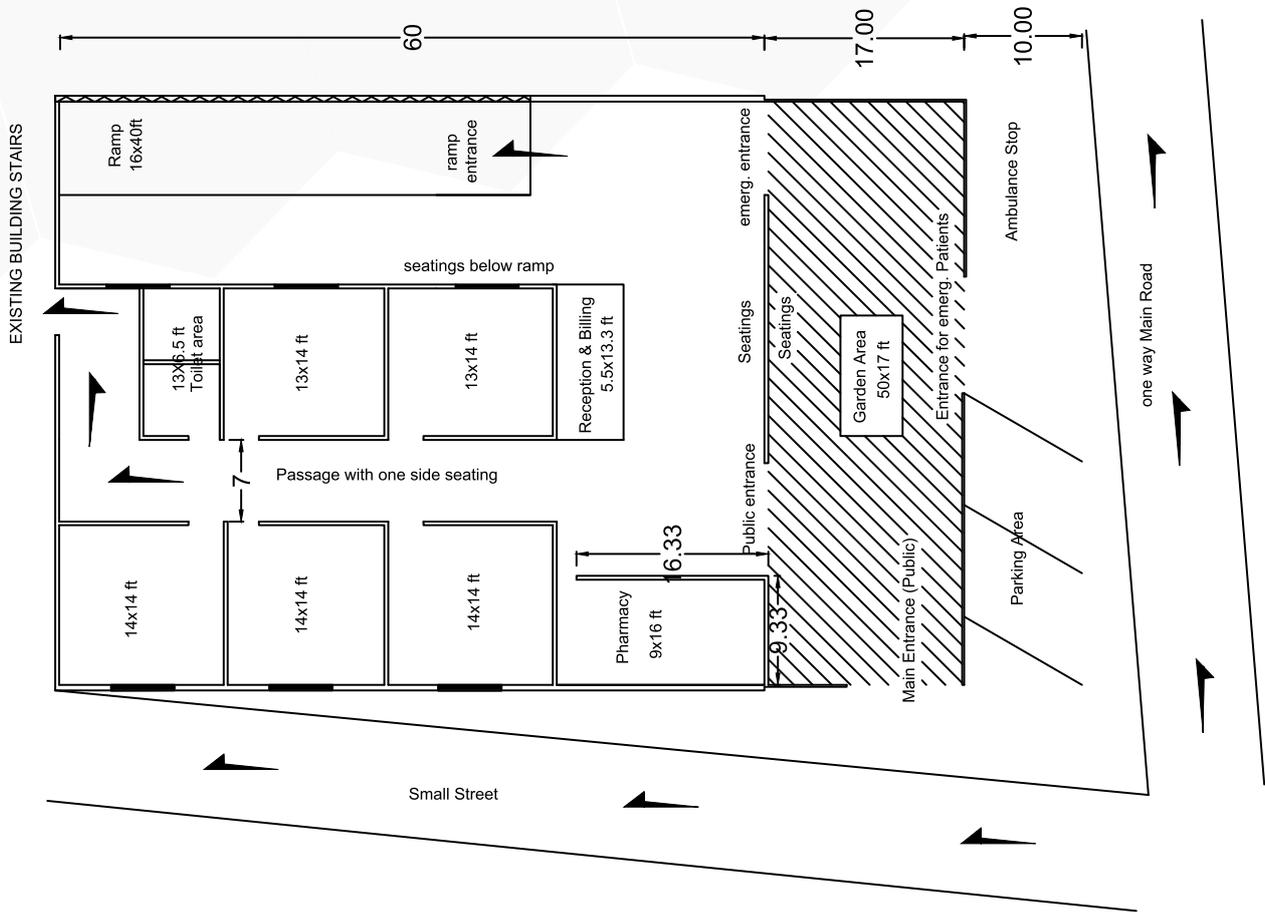
For a construction project, the site plan also needs to show all the services connections like drainage and sewer lines, water supply, electrical and communications cables, exterior lighting etc.

Its a first design that is made for any project before going into detailing process. Drawing up a site plan is a tool for deciding both the site layout and the size and orientation of proposed new buildings.

These drawings should comply with the local development codes, including restrictions on historical sites. It acts as a legal agreement for the permission of construction from the government body. For this, it is required that the site plan is made by a licensed professional like architect, engineer, landscape architect or land surveyor.



2D/3D FLOOR PLANS



Floor plans are essential to any interior design or architecture project. With a floor plan, you can see everything in your space as if you took the ceiling off and were looking down. Think of yourself as a giant looking at the plan from a bird's eye view.

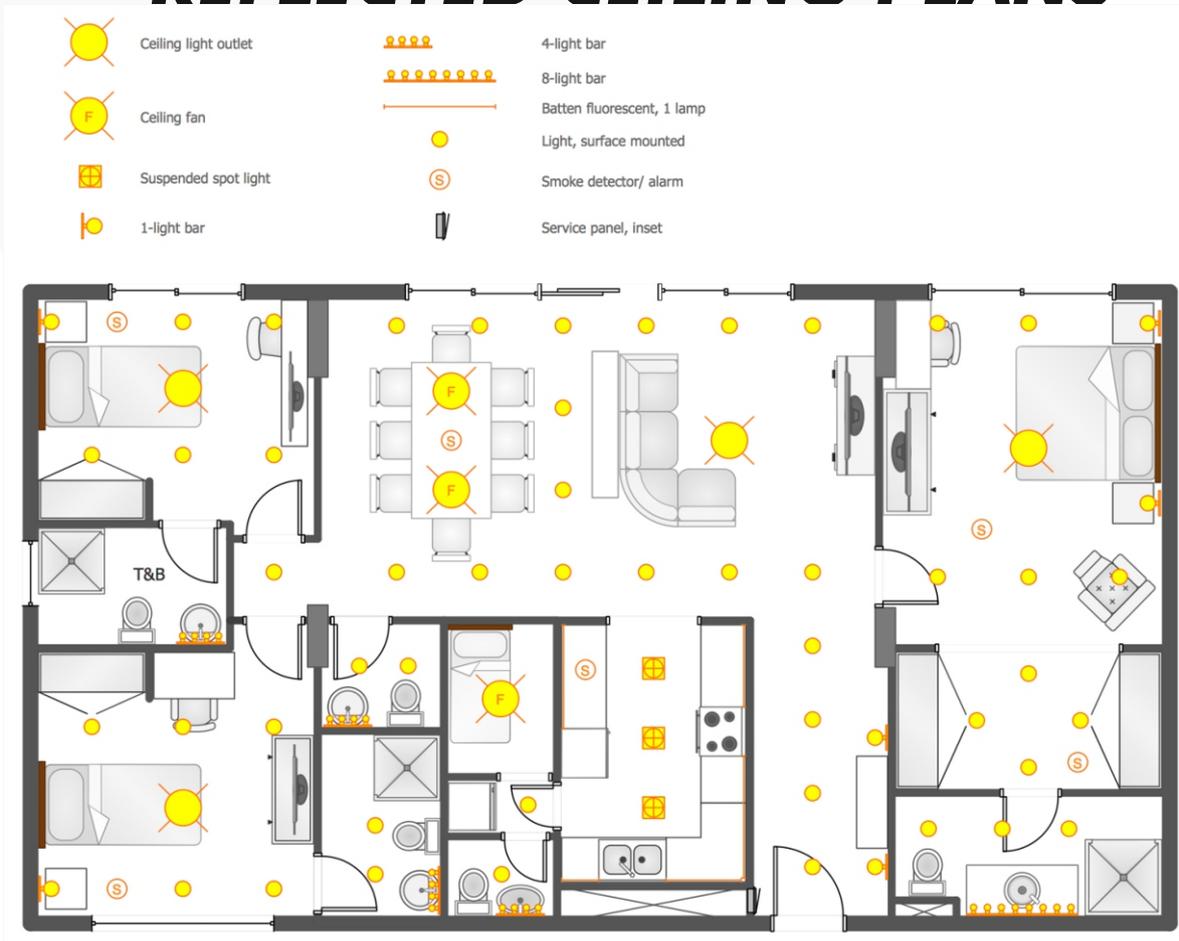
There are a few different kinds of floor plans, each with their own purposes. One kind of floor plan is a 2D version, which usually includes measurements of the space, like how long the walls are and where the doors are located. If they're very detailed, they can be used as the basis for a building plan.

There are also 2D versions of furniture plans, which are floor plans with furniture drawn in them. The focus here is less on measurements and instead on how objects (like couches and tables) fit in the space.

The floor plan can be a 3D model of a furniture plan. You can see how the entire apartment looks with furniture from above, giving you a way to see not only how objects fit in the space, but how specific furniture pieces look together.



2D/3D CEILING PLANS or REFLECTED CEILING PLANS



Reflective ceiling plans are almost the opposite of floor plans. By that, I mean that floor plans show you what the floor would look like if you took the ceiling off and were looking down from the top.

When you're looking at a reflective ceiling plan, imagine that you've taken off the floor of a home and have then turned the entire space upside down. The ceiling is the floor of a reflective ceiling plan, if you will.

Reflective ceiling plans can be as detailed or as basic as you'd like them to be. Some plans include descriptions of architectural details, like vaulted ceilings. Other plans include details of lighting fixtures while others include the wiring for lighting and the location of switches.

In the plan, we can see the shape of the ceiling and where the lighting fixtures will be located, but not the wiring or switch locations.



2D/3D EXTERIOR ELEVATION PLANS



Exterior elevations show you the outside of the building. When building, it's best to have an idea of what the structure should look like once construction is finished, which is why these are incredibly useful.

Exterior elevations can be 2D or 3D drawings, and they can be as detailed or as simple as you like. 2D drawings typically have measurements on them, showing where the relationship between exterior elements like doors and lights should be. 2D elevations also can have callouts to different kinds of bricks, stones, and paints, so you know exactly where each material needs to go.

3D exterior renderings are similar to their 2D counterparts, except they focus entirely on the visual. Most of the time, a rendering is a concept drawing to take to whoever is constructing your project to give them an idea of what you want the exterior to look like. From the concept, they'll create the detailed exterior elevation they need to build from.



2D/3D INTERIOR ELEVATION PLANS



Interior elevations are very similar to exterior elevations in purpose. With interior elevations, you can create a view with just the baseboard, windows, and crown molding or a room with all of the furnishings. Elevations are extremely useful when constructing a room such as a kitchen or a bathroom, which require visualization of built-in elements.

Some interior elevations are drawn in the 2D. These can show measurements, can show what the room looks like with cabinetry, or can show what the fully furnished space looks like. Showing furniture in 2D interior elevations is uncommon, but can be useful in some situations.

3D interior renderings that show your furniture in your space are quite common. These are generally concept plans that designers come up with to show you what your space could look like. Many times, after receiving a rendering, clients will seek out interior designers that can take these inspiration images and make them a reality. Designers will be the ones to find the real versions of the rendered products to bring your space to life. Some designers will even provide an updated render after finding the specific items they'd like to use in your space.

The interior renderings above are of a restaurant. This is an incredibly detailed drawing, showing everything from the wires for the lighting fixtures to the full canisters of sugar on the table. This was most likely a final render before going ahead and purchasing items.



2D/3D LANDSCAPE PLANS



Designing the exterior and interior of a space is only the beginning of creating a home or business. Without proper landscaping, your space will look completely incomplete.

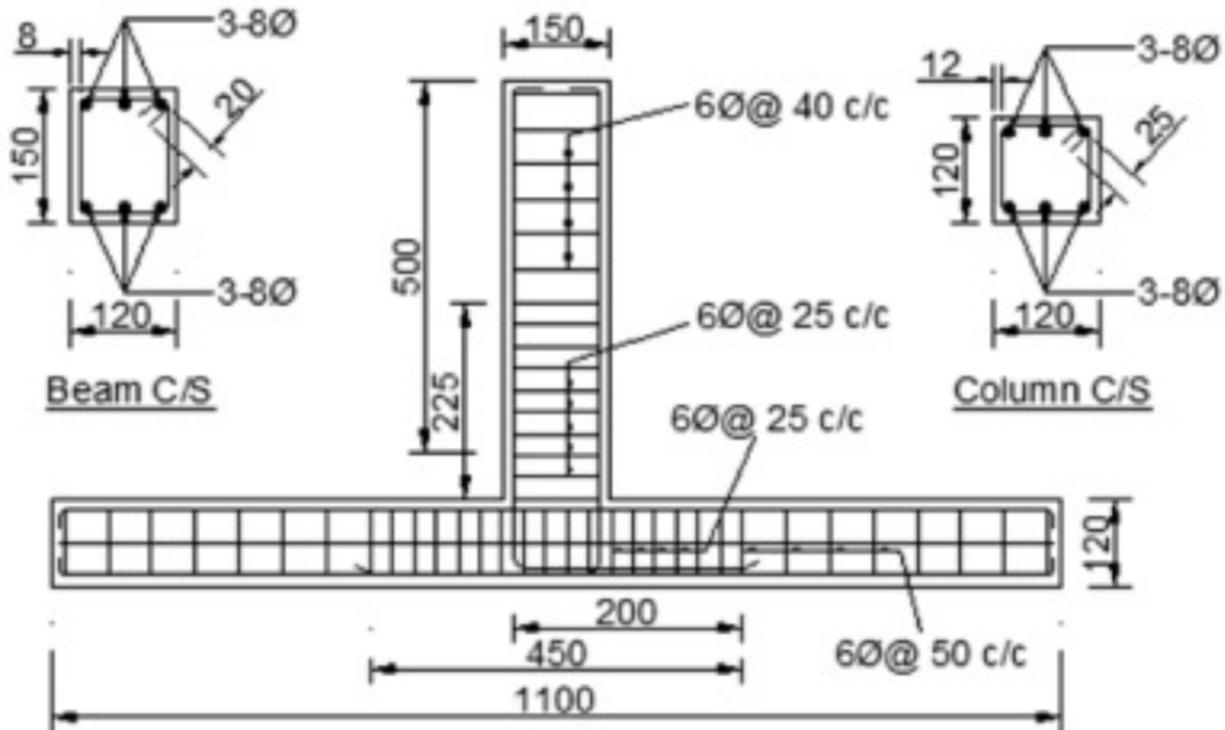
There are many designers that go through years of training to specifically create beautiful landscapes. If you're looking for a small garden in your backyard, a landscape designer can help. If you're looking to add foliage and walkways to an apartment complex, a landscape designer can help, too.

On landscape plans, you'll see everything from flowers to sidewalks and lawn decorations to fountains. Your landscape designer can collaborate with a pool or spa designer to create a full oasis in your yard. When you hire a landscape designer to help with a multi-building area, they'll best be able to increase the flow of foot traffic while making it as pretty as possible.

The landscape plan above shows what the landscape design of a neighborhood will look like. This landscape designer brought the area surrounding the homes to life, making the houses as beautiful on the outside as they are on the inside.



STRUCTURAL DETAILING



Structural design is the methodical investigation of the stability, strength and rigidity of structures. The basic objective in structural analysis, design and detailing is to produce a structure capable of resisting all applied loads without failure during its intended life. The primary purpose of a structure is to transmit or support loads. If the structure is improperly designed or fabricated, or if the actual applied loads exceed the design specifications, the device will probably fail to perform its intended function, with possible serious consequences. A well engineered structure greatly minimizes the possibility of costly failures.

The steps involved in this are first we get a required plan of our structure and then check its feasibility for the applied loads, required sizes, cost etc and give the dimensions of structural elements with its reinforcement details.

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