

Introduction

- AutoDCR is a first kind of Software in India, which is a Unique & innovative way of automatic scrutiny of Building proposal by reading CAD drawings. It is used to automate the lengthy & cumbersome manual process of checking the development regulations, thus reducing the paper work and effort for Architects as well as Corporation. As well as It helps in attaining the e-Governance with supplying all electronic versions of the documents.
- Software reads the building entities from drawings, geometrically maps each & every entity by corresponding with complex & interlinked rules. It produces relevant reports embedded in drawings as well as in printed format.
- Software needs Preformatted Drawing with some specification and identifications. As per AutoDCR requirement all the Layout/Building items like Prop. Plot, Abutting Road, Proposed Work, Bldg. detail should be drawn under corresponding layer.

Information

- LS/Architect/Engineer needs to make his Proposal Drawings as per AutoDCR requirement and submits to Corporation.
- Corporation will first verify submitted Drawing and then Proposal will be checked through AutoDCR Software.

(Note: Only Preformatted Drawings drawn as per AutoDCR requirement without any failing Objects shall be considered for Auto scrutiny through AutoDCR Software)

Instructions

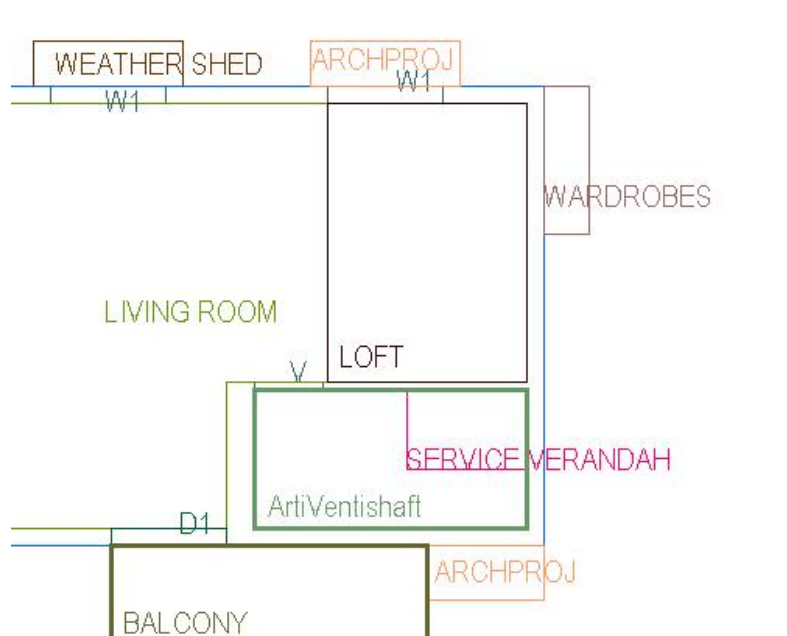
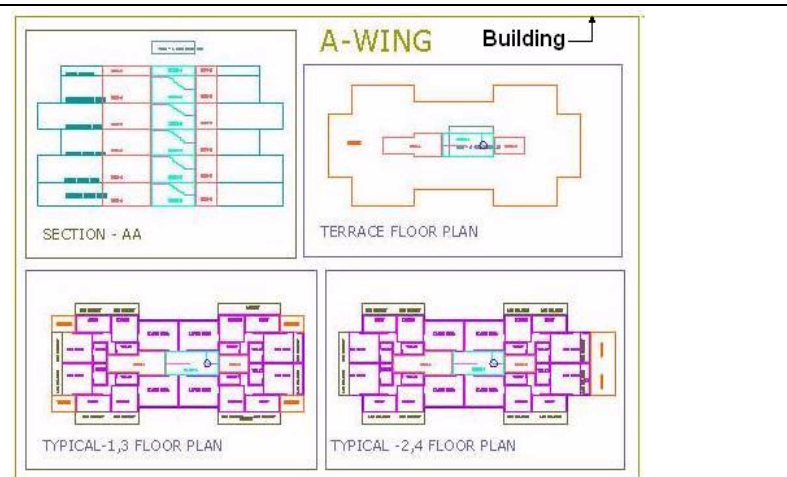
AutoDCR is a layer based Software, it only identifies the Object, if it is drawn on particular layer and having proper Text or Naming Conventions provided as below.

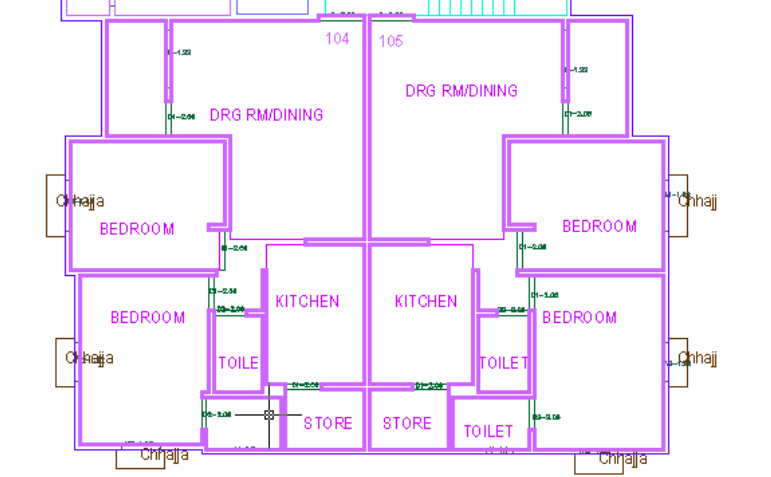
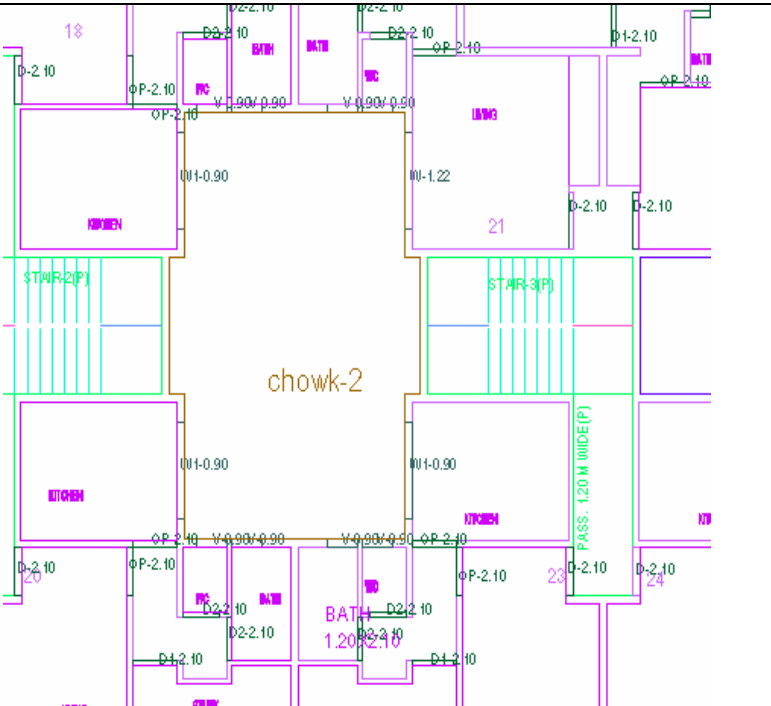
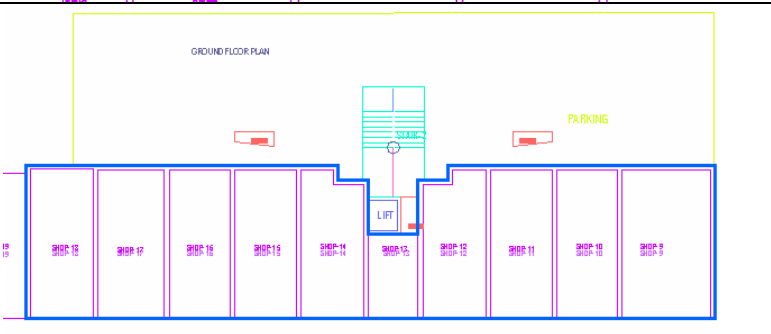
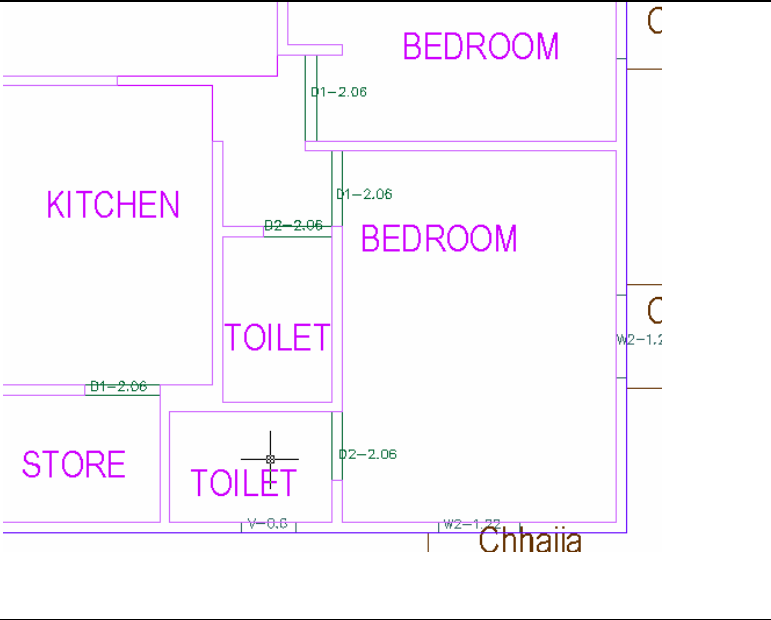
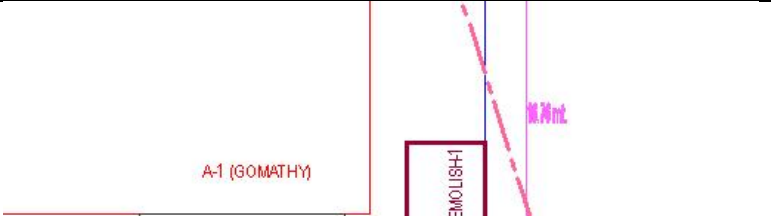

- Architectural Drawing must be created on specific layer. And **Layer must be having a LayerName and color as distinguish below.**
- No one other object should be drawn on particular Layer.
- No one Object or Text should override to same Object or Text.
- Each Object should be drawn with LWPolyline only and certainly that Polyline must be closed by using closed option in PolyLine command.
- Specific Objects like Road, Passage should have Centre line drawn in same Layer as an Open Polyline by using CentreLType.
- Each Object should have perfect position. e.g. Plot (object) must be overlapped with Main Road. (Object)
- Certain Layer can have a Main object as well as Sub Entities. e.g. Staircase : Main Object (Staircase closed Polyline) will be in _Staircase layer having ByLayer color, while Staircase's Sub Entities like Intermediate Floor, Flight width shall be on same Layer and having different color (Not ByLayer Color)
- Layout Detail & Building Detail should be there in a **Single AutoCAD drawing file** and in **1:1 Scale** only.
- Layout/Building Sub-Items must be **exactly inside of outer closed polygon as per their place in architectural plan.** This means none of the edge or vertex of inside entity should be drawn outside its container entity. For example, Open Space Area Poly must be exactly inside the Main plot poly.
- Every Layout/Building Entities should be given a specific/unique name (Text or MText entity) on the same layer & inside the entity poly.** If Text(name) not found inside any Entity then AutoDCR will generate the Text(name) automatically. Naming Conventions should be followed properly. e.g. Names to Entities should be given properly without using abbreviations and should be practically used, so the software can identify perfect entity.
- If in Layout Plan, Two Typical Bldgs (Prop.work) are provided & they are mirrored to each other, in that case User should provide two separate Building Detail for each Prop.Work.
- All Objects(Layers detail) should be drawn on Same Plane(Single UCS- XY Plane) , **Properties like value of Z coordinate, Elevation or Different UCS should not be in inside AutoCAD Drawing file**

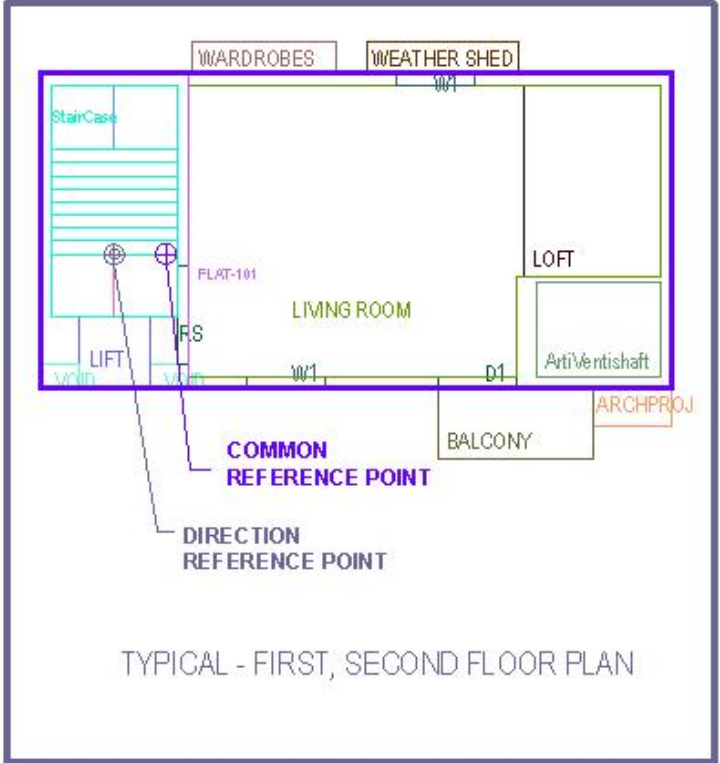
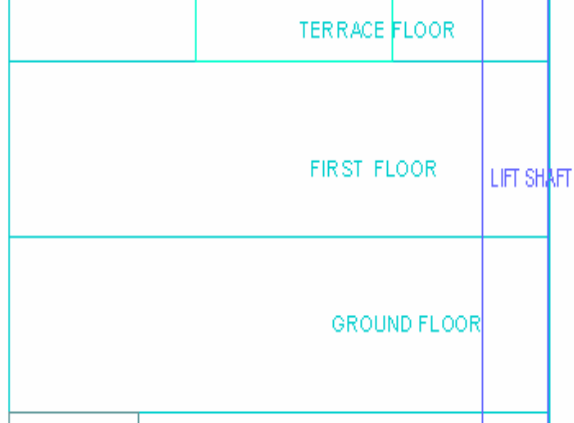
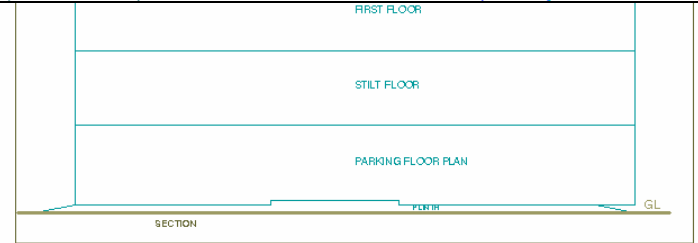
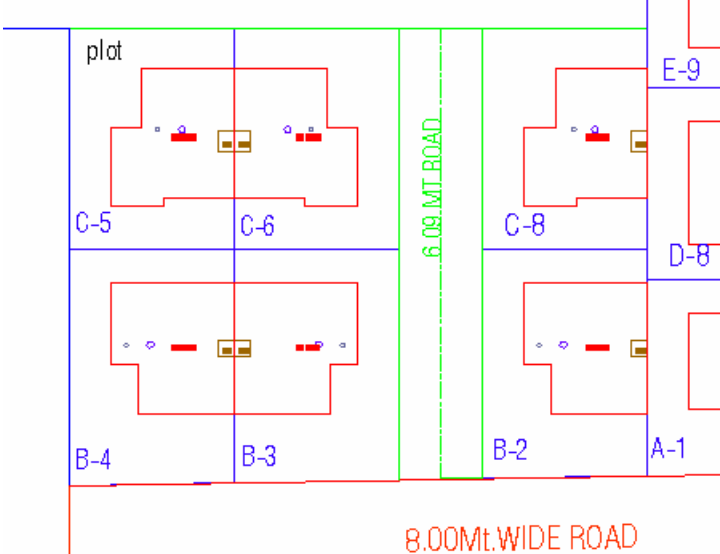
How To Draw As per AutoDCR requirement

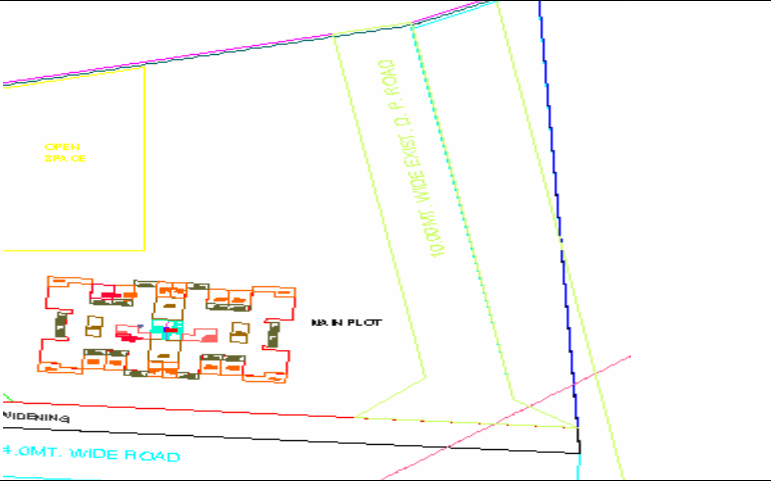
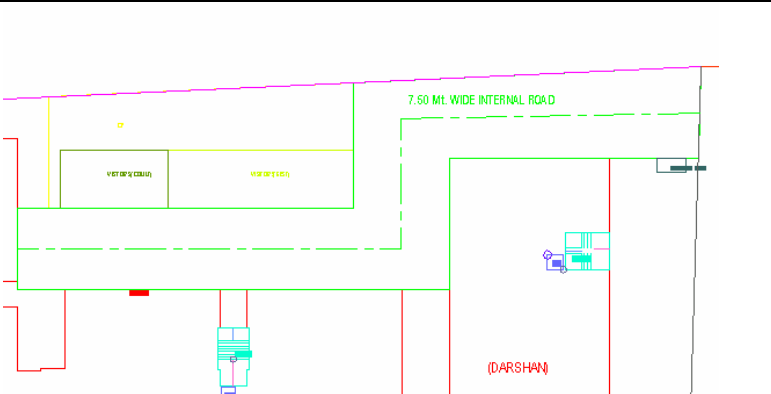
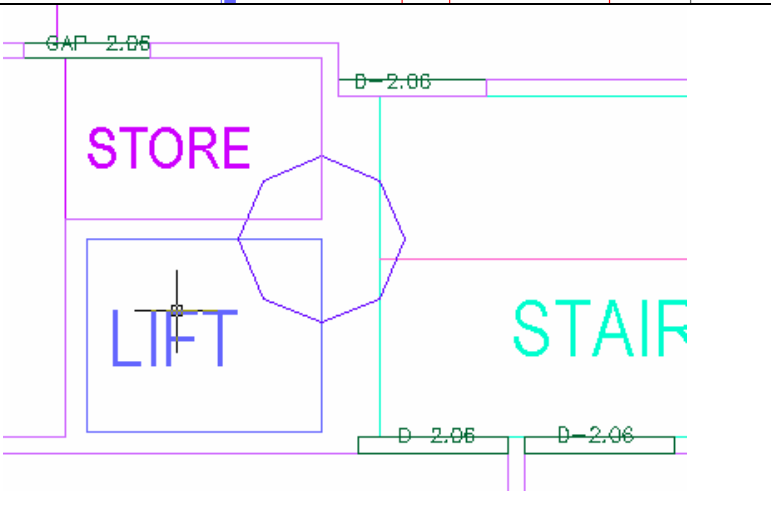
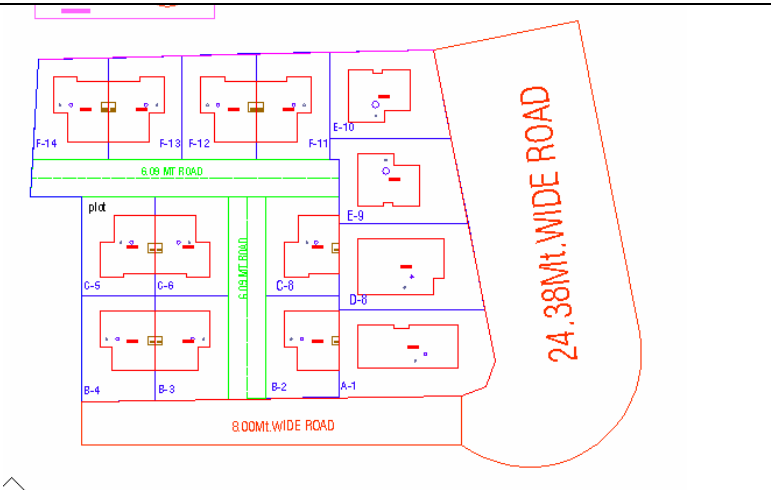
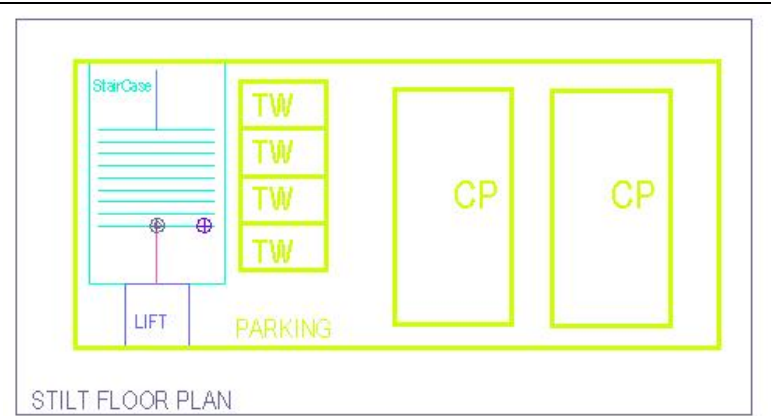
(Note : Main Entity Color must be ByLayer color , Where SubEntity on the same Layer would be having a different color)

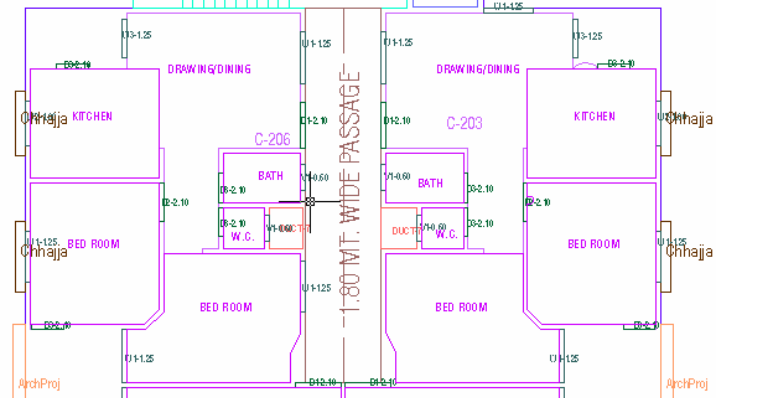
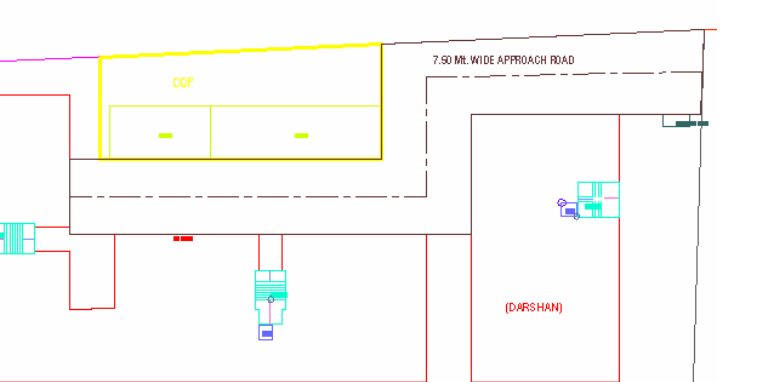
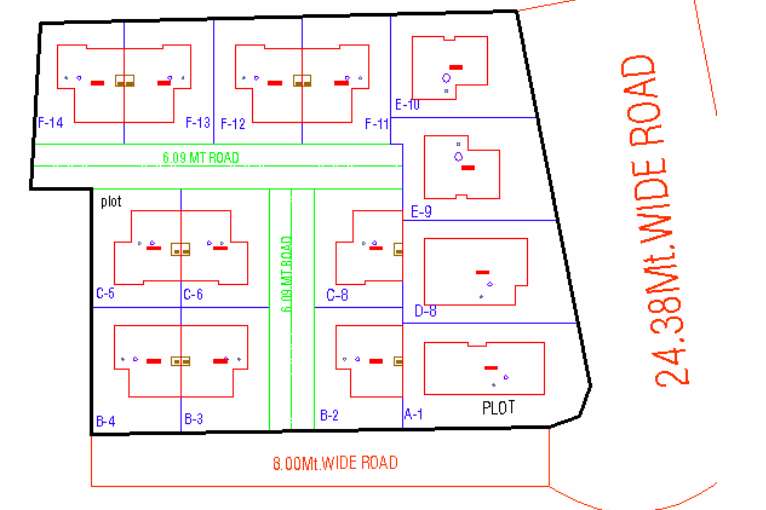
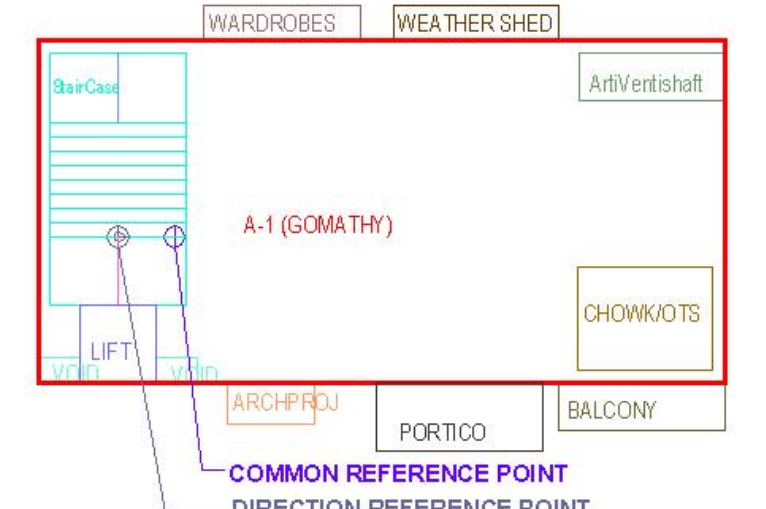
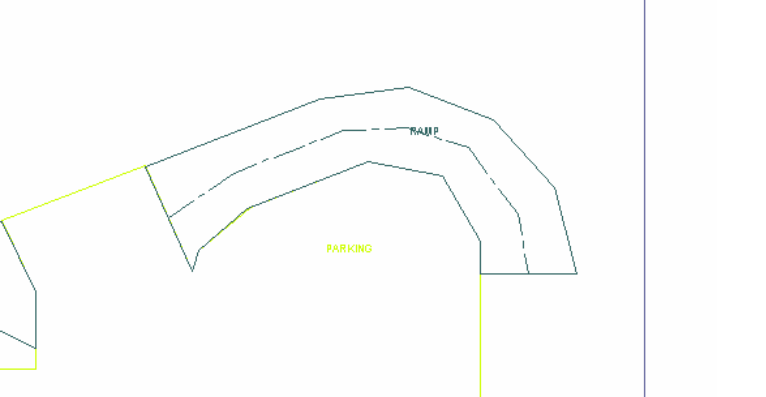
For Proposed Development Proposal:

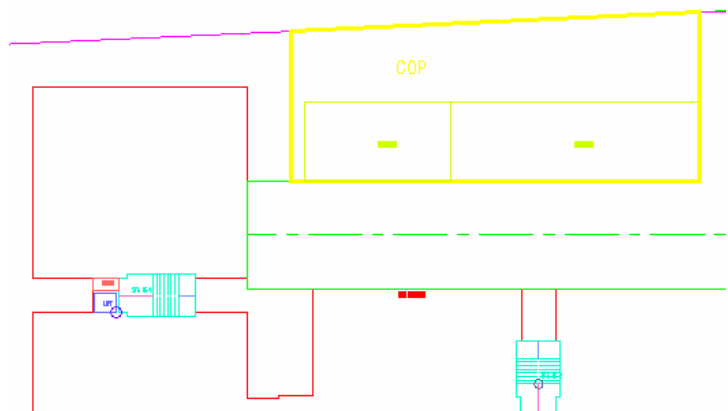
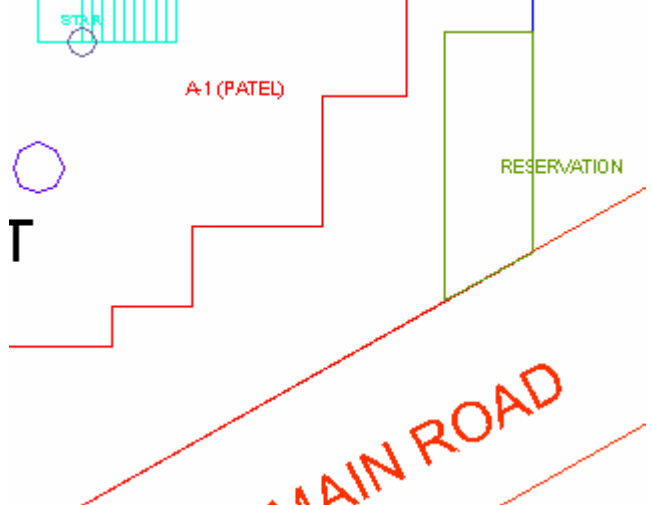
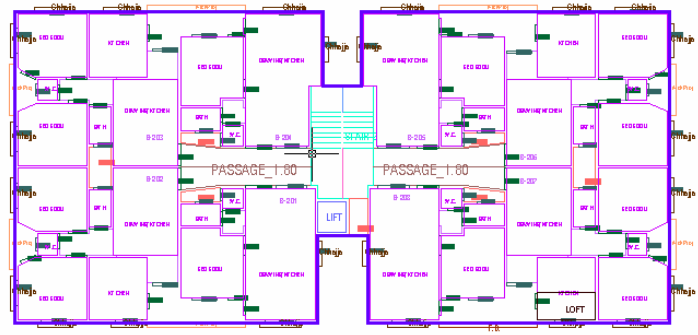
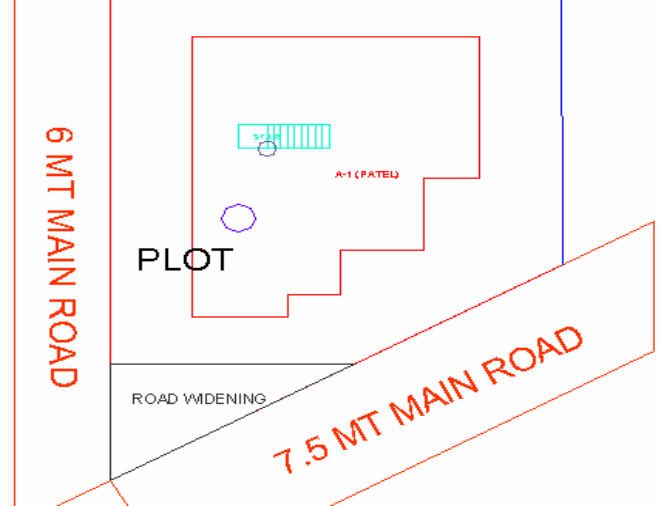
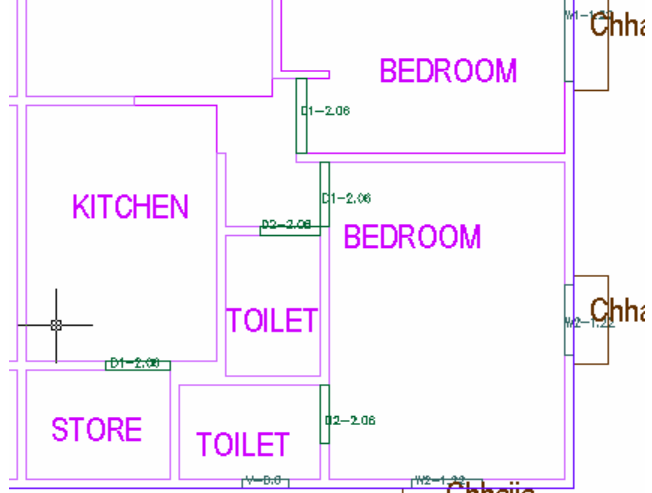
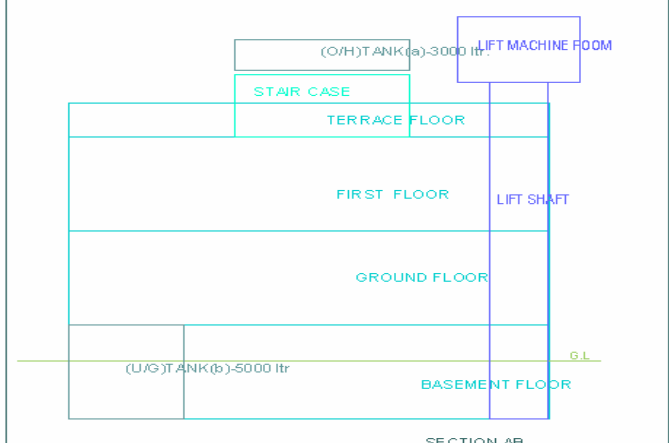
Layer name	Layer Colour	Description	Naming Convention	
_Amenity	ByLayer:4	Draw amenity Space as closed polyline with Single Text/Mtext inside it on same layer.		
_ArchProj : • F.Bed • Weathershed • Wardrobe • Loft • Cantilevered Portico • Otta • Arch Proj. • Connecting Corridor	ByColor:22 ByColor:24 ByColor:23 ByColor:26 ByColor:27 ByColor:207 ByLayer:21 ByColor:204	Draw Architectural Projections such as Weathershed , Flower-Bed, Wardrobes, Lofts, Portico, Otta,Architecture Projection and Connecting Corridor as Closed Polyline with Text inside it. <i>(Projections except Arch. Proj. shall be drawn in described color not in ByLayer color)</i>		
_ArtiVentiShaft	ByLayer:83	Draw a closed poly with Text for Artificial Ventilation Shaft or Duct.		
_Balcony • Service Verandah	ByLayer:25 ByColor:230	Draw Each individual Balcony as closed Polyline with Text on same layer. • Service Verandah can be Marked by using Tool "Mark>Balcony> Service Verandah "		
_Building	ByLayer:52	Building poly is used to group all floor plans and sections of the same Building. <i>(This is just a logical Group of Building). (Area or size of Building Poly doesn't have any meaning in AutoDCR)</i>	Naming Convention Should be Provided A(Bldg.Name) inside Bldg. Poly	
_BurialPlaceLine		Draw Open Polyline with text for BurialPlaceLine		

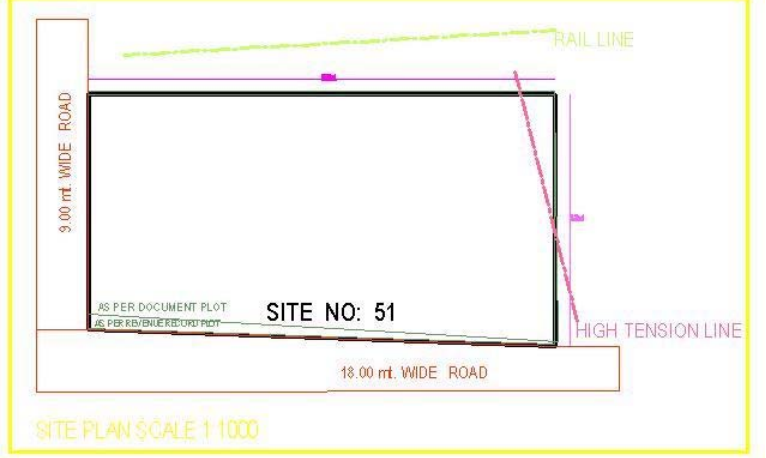
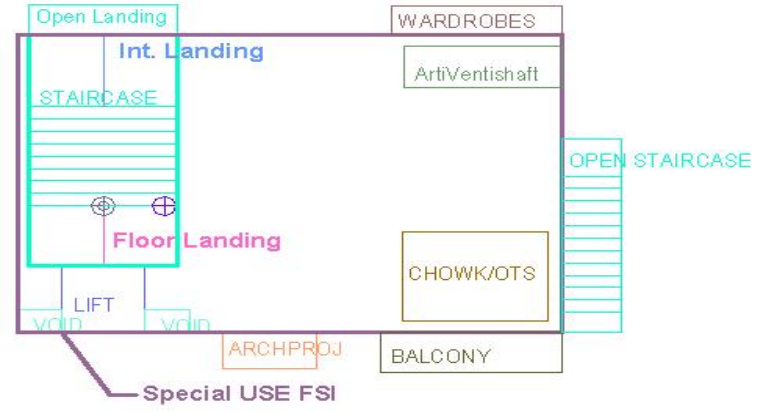
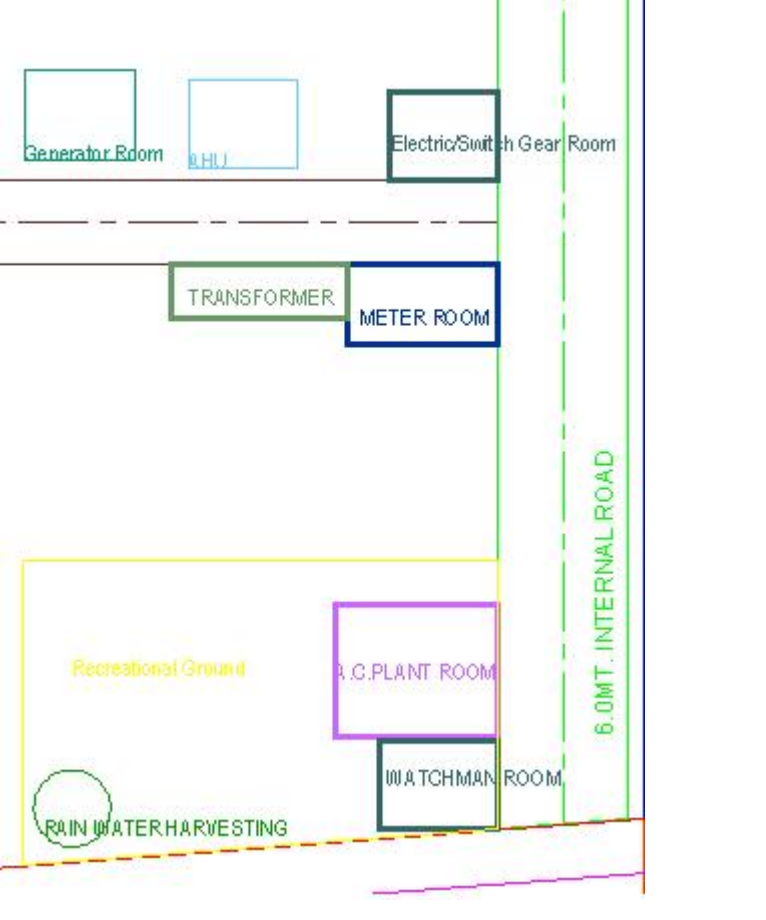
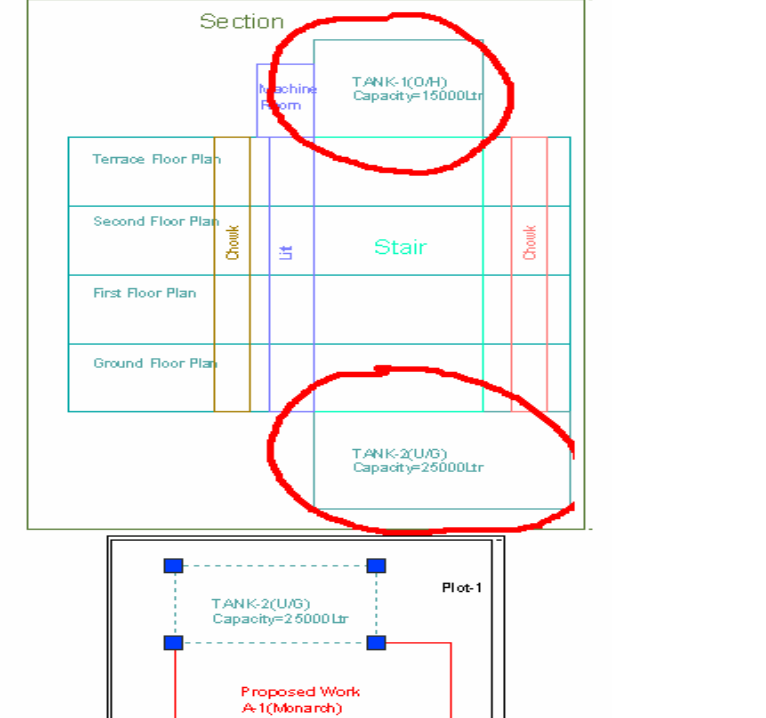
<p>_CarpetArea</p>	<p>ByLayer:191</p>	<p>A Closed poly with Text on this layer represents a Carpet Area or Tenement Area. (It should cover total area of one Tenement except walls.)</p> <p>In case of Bunglow(Splited Tenement) give same text to all carpet poly inside one Bldg.</p>		
<p>_Chowk / _OTS</p>	<p>ByLayer:42</p>	<p>Draw Chowk/ OTS area as a closed Polyline with Text on _Chowk/_OTS Layer.</p>		
<p>_CommFSI</p> <ul style="list-style-type: none"> Free FSI @Basement Existing FSI 	<p>ByLayer:150 ByColor:134 ByLayer:150</p>	<p>Draw a closed FSI PolyLine, which is used as a Commercial Purpose. (Line type of Existing FSI poly should be ACAD_ISI02W100)</p>		
<p>_CompoundWall</p>	<p>ByLayer:252</p>	<p>Closed polyline of compound wall to be drawn on this layer overlapping plot.</p>	<p>0.0m. high compound wall.</p>	
<p>_Door</p>	<p>ByLayer:114</p>	<p>Door shall be drawn as a closed polyline with Text. Door Height should be given in Text as described here. (Text's Insertion Point must be Inside Poly)</p>	<p>D-2.10 D1-2.10 FD-2.40 RS-2.50</p>	
<p>_Electricline</p>	<p>ByLayer:241</p>	<p>Electric line shall be drawn as open Polyline with Text whose insertion Point lies on the Polyline. (Note : High or Low Voltage capacity must be written at a starting of Text)</p>	<p>High Tension Line</p>	
<p>_ExStructure :</p> <ul style="list-style-type: none"> Exist.work To be Demolished Exist.work To be Retained 	<p>ByLayer:242 ByColor:5</p>	<p>Draw an Existing work as a closed Polyline with Text inside it.</p>		

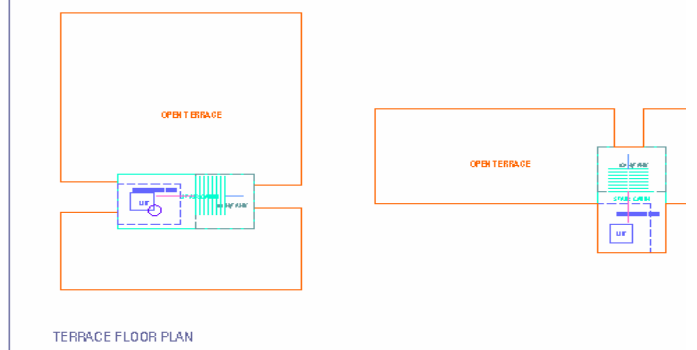
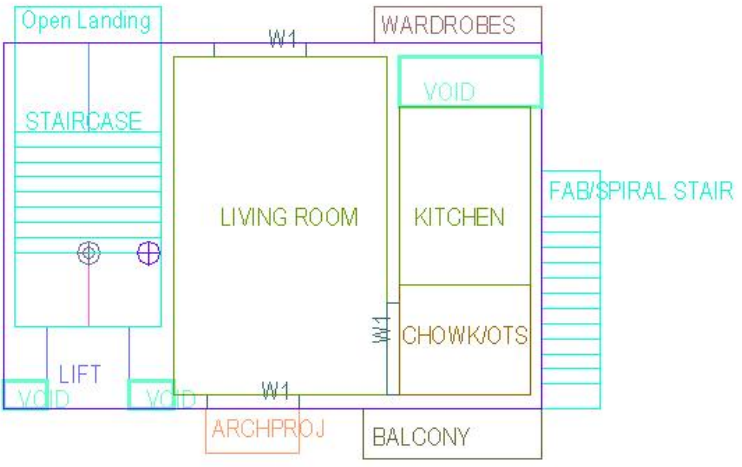
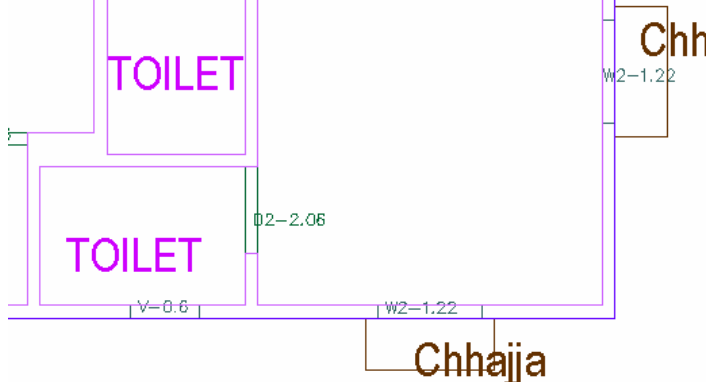
<p>_Floor</p>	<p>ByLayer:153</p>	<p>Floor poly should be drawn as a closed Polyline with Text on same Layer. This is just a logical Group of all floor Entities.</p> <p>Common Reference Point Draw a circle on _ResiFSI layer inside each floor poly at the same point. You can draw it on common areas of the bldg. such as lobby, staircase, lift etc.</p> <p>Direction Reference Point Draw a circle on _Floor layer inside each floor poly at the same point. You can draw it on common areas of the bldg. such as lobby, staircase, lift etc.</p> <p>Note: Common Reference point & Direction Reference point must be inside Each Floor at same location</p> <p>Floor Name: Floor Plan will be automatically link with Section by matching the Floor Name. If the Floor is Typical Floor, It should be Named with Proper Naming convention.</p> <p>Naming Convention for Floors</p> <ul style="list-style-type: none"> • Normal Floor: X Floor Plan • Typical Floor: TYPICAL-X,Y & Z FLOOR PLAN <p>Note:</p> <ul style="list-style-type: none"> • X represents the Floor Name or No. e.g. First or 1st • Typical Floor Name should be provided by using Hyphen(-), Comma (,) and (&) in proper manner. • Each Floor Plan must be having a corresponding Section Floor. 	<p>Naming Convention will be Provided as per shown in Description</p>	 <p>TYPICAL - FIRST, SECOND FLOOR PLAN</p>
<p>_FloorInSection</p>	<p>ByLayer:132</p>	<p>Section floor poly will represent each floor section with its name inside SectionFloor : Floor Plan will be automatically link with SectionFloor by matching the Floor Name. If the FloorPlan is Typical Floor Plan, It should be Named with Proper Naming Convention.</p>	<p>Inside SectionFloor: SECOND FLOOR, THIRD FLOOR, GROUND FLOOR.</p>	
<p>_GroundLevel</p>	<p>ByLayer:63</p>	<p>The Ground level line should be drawn as an open polyline in the section poly. Prop.Ht. will be considered from GroundLvl Polyline</p>		
<p>_IndFSI</p> <ul style="list-style-type: none"> • Free FSI @Basement • Existing FSI 	<p>ByLayer:163 ByColor:134 ByLayer:163</p>	<p>Draw a closed FSI Polyline, which is used as a Industrial Purpose. <i>(Line type of Existing FSI poly should be ACAD_ISI02W100)</i></p>		
<p>_IndivSubPlot</p>	<p>ByLayer:180</p>	<p>For plotting layout draw individual subplots on '_indivsubplot' layer inside main plot which will be on '_Plot' layer.</p>		

_IntDPRoad	ByLayer:61	Draw an Existing/Proposed DP Road as a closed Polyline with text inside it. (Note: Road width must be written at a starting of Text)	12.50 m wd. Existing Road	
_InternalRoad	ByLayer:3	Draw Each Internal Road as a Closed Polyline with Centre Line (Ltype-CentreLine) & Single Text inside each. <i>(Road Width should come first in Text.)</i>	7.50 mt. wd. Internal Road	
_Lift	ByLayer:171	A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Lift. Machine Room shall be also drawn in same Layer with Text "Machine Room"(In Dashed line-line type) At terrace Floor & draw corresponding Machine room at Section		
_MainRoad	ByLayer:20	Draw Each Main Road (Abutting the Plot) as a Closed Polyline with Single Text inside each. <i>(Road Width should come first in Text)</i> <i>(Building Line of Road can be mark by Mark>Bldg.Line tool)</i>	12.00 mt. wd. Main Road	
_Marginline	ByLayer:253	Margin Polylines will be created by System <i>(User need not do anything on this layer.)</i>		
_NETPLOT	ByLayer:145	Netplot area is a Net area after Deduction of RoadWidening/Reservation From Gross Plot area		
_NotInProposal	ByLayer:141	Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer.		
_OtherPLTBoundary	ByLayer:103	Draw closed Ploylines for Other Plot Boundary i.e. Plot area as per Document		
_Parking	ByLayer:60	Draw a closed Polyline for Parkings on "_Parking" Layer. You can also use Insert tool to insert Parking Poly in your drawing. Car Parking-CP, Two-Wheeler Parking-TW, Transport vehicle-TV		

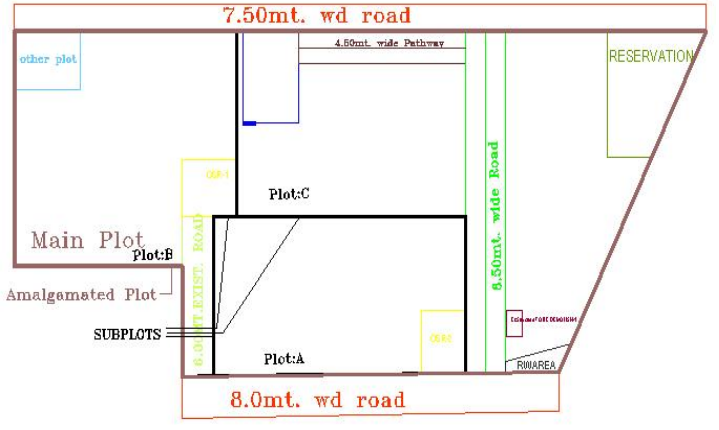
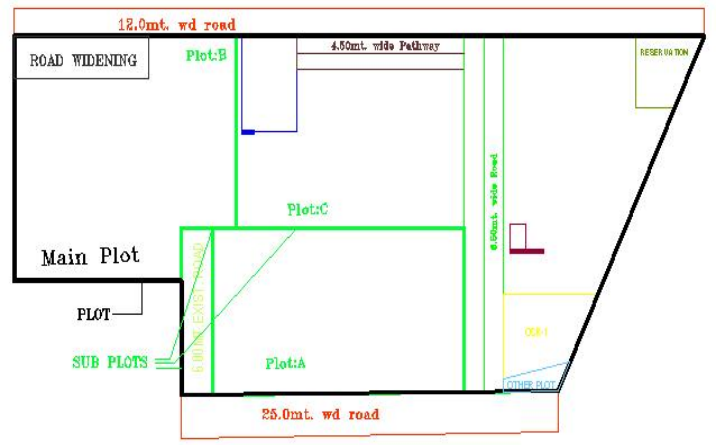
_Passage	ByLayer:243	Draw Passage as a Closed Polyline with Centre Line (Ltype-CentreLine) & Single Text inside each.	Text should be start with width of Passage Ex.- 1.80mt. wide Passage	
_Pathway	ByLayer:15	Draw Approach road or Pathway as a Closed Polyline with Centre PLine (Ltype-CentreLine) & Single Text.	Text should be start with width of Pathway Ex.- 1.50mt. wide Pathway	
_Plot	ByLayer:7	Draw Plot as a closed Polyline with Text inside it. At Layout Plan & Key Plan		
_Podium	ByLayer:40	Draw closed Polyline for Podium Structure in Layout Plan		
_PropWork	ByLayer:1	Prop.work is a Built up area(Max.Coverage Area) For Each Building. Draw Prop.work as a closed Polyline with Text inside it. At Layout Plan Note: Common Reference point & Direction Reference point must be inside Prop.Work	Naming Convention Should be Provided A(Bldg.Name) inside Bldg. Poly & A-1(Bldg.Name) Inside Prop.Work Poly	
_RailLine	ByLayer:71	Railway line shall be drawn in the layout plan as a Open Poly (Ltype-CentreLine) & Text which insertion point lies on the Polyline. (Note: Railway Gauge must be written at a starting of Text)	XXX Metre Gauge Railway Line	
_Ramp	ByLayer:135	Draw a Ramp as a closed polyline with CentreLine (L-type-entreLine) & Text inside it in Plan. Draw RampSection as a closed polyline with Text same as in Plan.	At starting of ramp name you mention ramp Length n Height Ex.- 30.0mt. Long 1.80mt. High Ramp	

<p>_RecreationalGnd</p>	<p>ByLayer: 2</p>	<p>Draw a closed polyline on “_RecreationalGnd” Layer to represent reserved as recreational space.</p>	
<p>_ReservArea</p>	<p>ByLayer:62</p>	<p>If there is any Reservation Area in Plot, Reservation Area should be drawn as a closed Polyline with Text inside same Layer.</p>	
<p>_ResiFSI <ul style="list-style-type: none"> Free FSI @Basement Existing FSI </p>	<p>ByLayer:190 ByColor:134 ByLayer:190</p>	<p>A Closed poly with Text on this layer represents a Residential FSI or Floor FSI. It will cover whole area which is considered in FSI Area per Floor. <i>(Line type of Existing FSI poly should be ACAD_IS102W100)</i></p>	
<p>_RoadWidening <ul style="list-style-type: none"> Taken in FSI </p>	<p>ByLayer:67 By colour:232</p>	<p>A closed polyline with Text around the RoadWidening area should be drawn on same Layer. Margin will be generated & checked from Roadwidening Poly by AutoDCR If Roadwidening area Taken in FSI consideration draw in colour-232</p>	
<p>_Room</p>	<p>ByLayer:200</p>	<p>A closed polyline for each room with its text inside should be drawn on this layer.</p>	
<p>_Section</p>	<p>ByLayer:75</p>	<p>Section poly should be drawn as a closed Polyline with Text on same Layer. It is used to group all Sectional detail like Floor Sections, Plinth, Staircabin, Lift ,machine Room etc. This is just a logical Group of Sectional Entity. <i>(Note: Area or size of Floor doesn't have any meaning in AutoDCR)</i></p>	
<p>_SewageLine</p>	<p>ByLayer:131</p>	<p>Drain line shall be drawn as an open polyline on this layer.</p>	

<p>_SitePlan</p>	<p>ByLayer:50</p>	<p>The encapsulating poly around the Site/Key Plan with the Text & Scale inside it. (Note: Scale should be written as described. Scale:1:500)</p>		
<p>_SpecialUseFSI</p> <ul style="list-style-type: none"> Free FSI @Basement Existing FSI 	<p>ByLayer:213 ByColor:134 ByLayer:213</p>	<p>FSI ploy for all other building uses like educational, institutional etc. except resi.,comm. industrial use should be drawn on this layer. <i>(Line type of Existing FSI poly should be ACAD_ISI02W100)</i></p>		
<p>_StairCase</p> <ul style="list-style-type: none"> Intermediate landing Flight Width Floor Landing 	<p>ByLayer:121 ByColor:161 ByColor:121 ByColor:231</p>	<p>Total Staircase area should be drawn as a closed polyline with text inside it. This Main Stair Poly should contain Intermediate Landing as well as Floor Landing area inside. <i>(Intermediate Landing & Floor Landing Poly color should be as described)</i></p>	<p>Give Proper Naming convention for other staircase like Open staircase, Open Landing, Fabricated/spiral staircase</p>	
<p>_SubStructure:</p> <ul style="list-style-type: none"> Elect.room Transformer Watchman cabin/ SecurityRoom Servant Quarters Garage Rain water Harvesting Motor room A C Plant Room Meter Room Septic Tank Sewage Treatment Plant Lumber Room Gate Pillar Lavatory Pebble Bed Solar Heating System Gymnasium Generator Room AHU Electric/Switch Gear Room Letter Box Room 	<p>ByLayer:32 ByColor:93 ByColor:93 ByColor:105 ByColor:123 ByColor:91 ByColor:92 ByColor:220 ByColor:201 ByColor:162 ByColor:82 ByColor:175 ByColor:152 ByColor:151 ByColor:36 ByColor:155 ByColor:35 ByColor:102 ByColor:122 ByColor:141 ByColor:165 ByColor:127</p>	<p>SubStructures which are allowed in Margins or Layout & Free from FSI should be drawn as a closed polyline with text inside it. <i>(Each SubStructure should be drawn As per described Colour)</i></p>		
<p>_Tank</p>	<p>ByLayer:133</p>	<p>Tank clear size should be drawn as a closed Polyline with Text on this Layer in Floor Plan/Layout Plan as well as Section with same Text. <i>(Note: Tank No. & Capacity should be written in Text'</i></p> <p>For Overhead tank- (O/H)Tank(1)-5000Ltr. (* 1 is tank No.)</p> <p>For Underground tank- (U/G)Tank(1)-5000Ltr. (* 1 is tank No.)</p>	<p>Naming Convention will be Provided as per shown in Description</p>	

_Terrace	ByLayer:30	Terrace should be drawn as a closed Polyline with Text on same Layer.		
_Void	ByLayer:111	Void should be Draw as Closed Poly with Text inside in same layer		
_WaterBodies	ByLayer:124	Water body should be Drawn in Close poly with text inside		
_WaterLine	ByLayer:131	Waterline shall be Drawn As open poly on this Layer		
_Window	ByLayer:115	Draw Closed Poly & insert Text in same Layer with window ht.	W-1.20,W1-0.90,V-0.60	

For Land Division Proposal :

Layer name	Layer Colour	Description	Naming Convention	
_Amalgamation	ByLayer:33	For Amalgamation Proposal, Draw resulting Plot as a closed Polyline having Text/MText on _Amalgamation Layer Draw All Plots inside Amalgamation poly		
_SubDivision	By Layer:100	For Land Division Proposal, Draw each SubPlot (Subdivided Plot) as a Closed Polyline having Text/Mtext on _SubDivision layer Draw All Subplots inside Plot poly		

Layer Information

Name	On	Freeze...	L...	Color	Linetype	Lineweight	Plot Style
Amenity	☑	☑	☑	Cyan	Continuous	— Default	Color_4
_ArchProj	☑	☑	☑	21	Continuous	— Default	Color_21
_ArtiVentiShaft	☑	☑	☑	83	Continuous	— Default	Color_83
_Balcony	☑	☑	☑	25	Continuous	— Default	Color_25
_Building	☑	☑	☑	52	Continuous	— Default	Color_52
_BurialPlaceline	☑	☑	☑	172	Continuous	— Default	Color_172
_CarpetArea	☑	☑	☑	191	Continuous	— Default	Color_191
_Chowk	☑	☑	☑	42	Continuous	— Default	Color_42
_CommFSI	☑	☑	☑	150	Continuous	— Default	Color_150
_CompoundWall	☑	☑	☑	252	Continuous	— Default	Color_252
_Door	☑	☑	☑	114	Continuous	— Default	Color_114
_ElectricLine	☑	☑	☑	241	Continuous	— Default	Color_241
_ExStructure	☑	☑	☑	Blue	Continuous	— Default	Color_5
_Floor	☑	☑	☑	153	Continuous	— Default	Color_153
_FloorInSection	☑	☑	☑	132	Continuous	— Default	Color_132
_GroundLevel	☑	☑	☑	63	Continuous	— Default	Color_63
_IndFSI	☑	☑	☑	163	Continuous	— Default	Color_163
_IndivSubPlot	☑	☑	☑	180	Continuous	— Default	Color_180
_IntDPRoad	☑	☑	☑	61	Continuous	— Default	Color_61
_InternalRoad	☑	☑	☑	Green	Continuous	— Default	Color_3
_Lift	☑	☑	☑	171	Continuous	— Default	Color_171
_MainRoad	☑	☑	☑	20	Continuous	— Default	Color_20
_MarginLine	☑	☑	☑	253	Continuous	— Default	Color_253
_NETPLOT	☑	☑	☑	145	Continuous	— Default	Color_145
_NotInProposal	☑	☑	☑	141	Continuous	— Default	Color_141
_OtherPLTBoundary	☑	☑	☑	103	Continuous	— Default	Color_103
_Parking	☑	☑	☑	60	Continuous	— Default	Color_60
_Passage	☑	☑	☑	243	Continuous	— Default	Color_243
_Pathway	☑	☑	☑	15	Continuous	— Default	Color_15
_Plot	☑	☑	☑	White	Continuous	— Default	Color_7
_Podium	☑	☑	☑	40	Continuous	— Default	Color_40
_PropWork	☑	☑	☑	Red	Continuous	— Default	Color_1
_RailLine	☑	☑	☑	71	Continuous	— Default	Color_71
_Ramp	☑	☑	☑	135	Continuous	— Default	Color_135
_RecreationalGnd	☑	☑	☑	Yellow	Continuous	— Default	Color_2
_ReservArea	☑	☑	☑	62	Continuous	— Default	Color_62
_ResiFSI	☑	☑	☑	190	Continuous	— Default	Color_190
_RoadWidening	☑	☑	☑	67	Continuous	— Default	Color_67
_Room	☑	☑	☑	72	Continuous	— Default	Color_72
_Section	☑	☑	☑	75	Continuous	— Default	Color_75
_SewageLine	☑	☑	☑	131	Continuous	— Default	Color_131
_SitePlan	☑	☑	☑	50	Continuous	— Default	Color_50
_SpecialUseFSI	☑	☑	☑	213	Continuous	— Default	Color_213
_StairCase	☑	☑	☑	120	Continuous	— Default	Color_120
_SubStructure	☑	☑	☑	32	Continuous	— Default	Color_32
_Tank	☑	☑	☑	133	Continuous	— Default	Color_133
_Terrace	☑	☑	☑	30	Continuous	— Default	Color_30
_Void	☑	☑	☑	111	Continuous	— Default	Color_111
_WaterBody	☑	☑	☑	65	Continuous	— Default	Color_65
_WaterLine	☑	☑	☑	131	Continuous	— Default	Color_131
_Window	☑	☑	☑	115	Continuous	— Default	Color_115
Amalgamation	☑	☑	☑	33	Continuous	— Default	Color_33
_SubDivision	☑	☑	☑	100	Continuous	— Default	Color_100

Contact Us:

M/s SoftTech Engineers Pvt. Ltd.



5/A, The Pentagon,
Near Hotel Panchami,
Satara Road, Pune - 411 009.
Maharashtra, India
Telephone : +91-20-24217676 / 24218747
E-Mail : sepl@softtech-engr.com
Website : www.softtech-engr.com