

Drawing the architectural plan in DWG format as per AutoDCR software requirements.

User Manual



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Introduction

PreDCR is software application used to create the architectural plan as per **AutoDCR** software requirements. It works under AutoCAD environment with additional menu & toolbar.

Using PreDCR commands user can create all the required layers in one click. Once all the layers are created in the drawing user can use AutoCAD commands to draw layout plan. As per AutoDCR requirement all building items like proposed plot, proposed work should be drawn on corresponding layer. Short commands are provided to activate any layer in PreDCR. At any time user can verify if the drawn entities are properly closed or not, if proper name text has been written inside all closed poly or not etc. PreDCR will highlight all the failed entities if any.

PreDCR can be used to modify/make and verify the existing or new architectural plan as per **AutoDCR** software requirements. Users are free to use AutoCAD commands and or PreDCR commands to achieve the main purpose which is:

Drawing the architectural plan in DWG format as per AutoDCR software requirements.

For Automating the process of Development Control Regulations user/draughtsman/architect have to follow some specifications. The following are the list of specifications that the user should follow.

- Plot layout, detailed floor plan and building section for all the floors should be there in one AutoCAD drawing file. And there must be in 1:1 mt. Scale.
- All building items like proposed plot, proposed work, proposed parking etc must <u>be drawn using closed polyline</u>.
 (i.e. Every entity must be closed LWPOLYLINE except Center Line of Main Road, Internal Road, Railway Line , Drain line, Water Line and Electric Line).
- Building Sub-Items <u>must be exactly inside of outer closed polygon as per their place</u> in architectural plan.

This means none of the edge or vertex of inside entity should be drawn outside its container entity.

For example Parking or Open Space poly must be exactly inside the main plot poly. Tools are provided in **PreDCR** to verify this check.

- Every Building Sub-Items should be given a specific/unique name (Text or MText entity) on the same layer & inside the entity poly. If name not found then AutoDCR will generate the name automatically. Naming Conventions should be followed properly.
 e.g. Each Room should be given the concerned name Living, Kitchen, Bedroom..Etc.
- Floor Name: GROUND FLOOR; TYPICAL FLOOR 1,2 & 5-8; TERRACE FLOOR;
 Floor Items: Room Names should be given properly without using abbreviations so the software can identify perfect entity. This can be done by Assign name facility provided by the software.
- Floor Poly line must be having all the Arch details inside it
- User shall use only following kind of entities for Building Items :-LWPOLYLINE / TEXT / MTEXT
- If in a plan two proposed work are mirrored in that case user should provide two separate building plan for each proposed work.
- Proposal drawing must be having _OtherDetail poly having the other details to be taken in finalprinting such as Column Footing detail, Compound wall detail etc.

Types of proposal that can be submitted using Pre-DCR

(Separate drawing files are required for Land-division (Sub-div. & Amalgamation) cases and for Building Development Case

- 1) Amalgamation By drawing initial plots (with unique plot names) on _Plot layer and amalgamated plot on _Amalgamation layer. Give unique name to amalgamated plot on '_Amalgamation' layer.e.g.AM1.
- 2) Sub-division By drawing initial plots (with unique plot names) on _Plot layer and subdivided plot on _Subdivision layer. Give unique name to all sub-divided plot on '_sub-division' layer.e.g.SD1, SD2 etc.
- 3) Building Development By drawing plot on plot layer with pwork inside plot having all the Proposed Bldg details

PreDCR layers information

Layer name	Description	Naming Convention	short command
_Amalgamation	For Amalgamation Proposal, Draw resulting Plot as a closed Polyline having Text/MText on _Amalgamation Layer		AMLG
_Amenity	Draw amenity Space as closed polyline with Single Text/Mtext inside it on same layer.		AMN
_ArchProj	Draw Architectural projections such as Chhajjas, Flower-Bed, Cupboards, Lofts, Canopies, Otta and Front Steps as Closed Polyline .By Using "Mark>Arch.Projections" Tool, concerned Text will be inserted automatically inside the polyline. Canopy/porch will come in plot & other projections will come with floor plans.		AP
_ArtiVentiShaft	Draw a closed poly with Text for Artificial Ventilation Shaft or Duct.		AVD
_Balcony	Draw Each individual Balcony as closed Polyline with Text on same layer. Balcony can be present in: Plot: It must overlap with PWork(if not enclosed) Floor: It must overlap ResiFSI. Enclosed Balcony can be Marked by using Tool "Mark>Balcony>Enclosed"		BL
_Building	Building poly is used to group all floor plans and sections of the same Building. (This is just a logical Group of Building). If the Building is Typical for Multiple Pworks or Wings, Naming Convention should be as Below. (Note: Area or size of Building Poly doesn't have any meaning in AutoDCR)	Naming Convention will be provided by Tool> Assign Name A (Bld.Name) inside Bldg.Poly & A-1 (Bldg.Name) inside Pwork Poly	BLD
BurialPlaceLine	Draw Open Polyline with text for BurialPlaceLine		BPL
_CarpetArea or _Ind.Unit	A Closed poly with Text on this layer represents a BuiltUp Area or Tenement Area. It should cover total area of one Tenement.		CPT
_Chowk	Draw Chowk area as a closed Polyline with Text inside FSIArea & inside Section Poly on _Chowk Layer. only those shafts from which ventilation for habitable room is taken should be drawn on this layer.all inner and outer chowks should be drawn on this layer.auto-dcr will auto-detect which is inner chowk and which is outer chowk. Chowk can be be present in the floor plan and its section in the Section poly but on the same "_Chowk" layer.		СШК
_CommFSI	Draw a closed FSI PolyLine, which is used as a Commercial Purpose.		CMFS
_CompoundWall	Closed polyline of compound wall to be drawn on this layer overlapping plot.	0.0 m. high compound wall.	CW
_Door	Door shall be drawn as a closed polyline with Text & specified DoorHeight.	D-2.2mt. , D1-2.4 mt.	DR

	(Note: Default DoorHeight will be 2.1 mt.)		
_ElectricLine	Electric line shall be drawn as open Polyline with	High Tension Line	L1
	Text whose insertion Point lies on the Polyline.		
	(Note : High or Low Voltage capacity must be		
	written at a starting of Text)		
_ExStructure	Draw an Existing Structure as a closed Polyline		ES
	with Text inside it.		
_Floor	Floor poly should be drawn as a closed Polyline	Naming Convention	FLR
	with Text on same Layer. This is just a logical Group of all floor Entities.	will be	
	Group of all hoor Entities.	provided by	
	Common Reference Point Draw a circle on	provided by Tool>Assign	
	_ResiFSI layer inside each floor poly at the same	Name>Floor name	
	point. You can draw it on common areas of the		
	bldg. such as lobby, staircase, lift etc.		
	Direction Reference Point Draw a circle on		
	_Floor layer inside each floor poly at the same	Name of floor should	
	point. You can draw it on common areas of the bldg. such as lobby, staircase, lift etc.	be in given format:	
	blug. such as lobby, stancase, int etc.		
	Note: Common reference point and Direction	TYPICAL-1,4 FLOOR	
	reference point must be different.	PLAN	
	(Note: Area or size of Floor does't have any	TYPICAL-1-5 FLOOR	
	meaning in AutoDCR)	PLAN	
	, , , , , , , , , , , , , , , , , , ,		
	Floor Name: Floor Plan will be automatically link	TYPICAL-2&3 FLOOR	
	with Section by matching the Floor Name. If the	PLAN	
	Floor is Typical Floor, It should be Named with		
	Proper Naming convention.	Ground Floor Plan	0505
_FloorInSection	Section floor poly will represent each floor section with its name inside SectionFloor : Floor	Inside SectionFloor: SECOND FLOOR,	SECF
	Plan will be automatically link with SectionFloor	THIRD FLOOR,	
	by matching the Floor Name. If the FloorPlan is	GROUND FLOOR.	
	Typical Floor Plan, It should be Named with		
	Proper Naming Convention.		
_GroundLevel	The Ground level line should be drawn as an		GL
	open polyline in the section poly.		
	Prop.Ht. will be considered from GroundLvl		
CarpetArea or	Polyline A Closed poly with Text on this		INDU
_Ind.Unit	layer represents a BuiltUp Area or Tenement		INDO
	Area.		
	It should cover total area of one Tenement.		
_IndFSI	Draw a closed FSI Polyline, which is used as a		IFSI
	Industrial Purpose.		
_IndivSubPlot	For plotting layout draw individual subplots on		
	'_indivsubplot' layer inside main plot which will be on '_Plot' layer.		
IntDPRoad	Draw an Existing/Proposed DP Road as a closed	12.00 m. wd. internal	R3
	Polyline with text inside it.	DP Road	
	(Note : Road width must be written at a starting of		
	Text)		
_InternalRoad	Draw Each Internal Road as a Closed Polyline	7.50 m wd. Internal	R2
	with Centre Line (Ltype-CentreLine) & Single	Road	
1.10	Text inside each.		
_Lift	A closed polyline on the inner dimensions of the		LFT
	lift should be drawn on this layer with Text. Lift. Machine Room shall be also drawn in same		
	Layer with Text "Machine Room".		
L			1

	(Note: If the premium is paid, lift should be		
	marked "Free from FSI" from "MARK" menu.)		
_MainRoad	Draw Main Road as a closed Poly with Text, which should be abutting with the Plot closed	24.00 m wd. Main T.P. Road	R1
	Poly. (Note : Road width must be written at the starting of Text)		
_Marginline	Margin Polylines will be created by PreDCR by using Tool "Mark>Margins"		L3
	(Note: User need not do anything on this layer.)		
_NetPlot	No need to draw NETPLOT. This layer is not provided for users. auto-dcr uses '_NETPLOT ' layer for it's own internal use.		NPLT
_NotInProposal	Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer.		NIP
_OtherDetail	Make one Boundary/Closed Poly Line around the Details which is to be taken in final Printout. e.g. Foundation Detail, Column Footing Detail, Perculation Pit, General Specification etc.		OTRD
_OtherPLTBoundary	Draw closed Ploylines for Other Plot Boundary i.e. Plot area as per Document		OPLT
_Parking	Draw a closed Polyline for Parkings on "_Parking" Layer. U can also use Insert tool to insert desired Parking Poly in your drawing.		РК
_Passage	Draw a closed polyline on "_Passage" Layer to represent passage. (Note : If Premium for Passage is going to be Paid, Passage should be marked by using Tool "Mark>Passage>Free from FSI"		PAS
_Pathway	Draw pathway as a closed polyline with text specifying its width.eg.1.5 m. wide pathway.		R6
_Plot	Draw a closed poly which will represent the Plot layout		PLT
_Podium	Draw closed Polyline for Podium Structure in Layout Plan		
_PropWork	PWork is a building profile and shall be drawn inside plot. Draw a closed polyline for Proposed Work on "_PropWork" Layer.		PW
_RailLine	Railway line shall be drawn in the layout plan as a Open Poly (Ltype-CentreLine) & Text which insertion point lies on the Polyline.		L2
_Ramp	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.		SECR
_RecreationalGnd	Draw a closed polyline on "_OpenSpace" Layer to represent reserved as recreational space.		OPS
_ReservArea	If there in any Reservation Area in Plot, it should be drawn as a closed Polyline with Text inside same Layer.		RSA
_ResiFSI	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. Note: - It is same as prvious "_ResiFSI" Layer.		MFS
_Roadwidening	Road Acquisition/Road Widening area shall be drawn as a closed Polyline with Text on same layer inside Plot Entity. Margin will be generated & checked from Roadwidening Poly by AutoDCR		R5

	software.		
_Room	A closed polyline for each room with its text inside should be drawn on this layer.		RU
_Section	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, Tank etc. (This is just a logical Group of Sectional Entity). (Note : Area or size of Floor does't have any meaning in AutoDCR)		SEC
_Sewageline	Drain line shall be drawn as an open polyline on this layer.		L5
_SitePlan	The encapsulating poly around the Site/Key Plan with the Text & Scale inside it. (Note : Scale should be written as described. Scale:1:500)		STP
_SpecialUseFSI	FSI ploy for all other building uses like educational, institutional etc. except resi.,comm. ind. use should be drawn on this layer.		SUF
_StairCase	Total Staircase area should be drawn as a closed polyline with text inside it. This Main Stair Poly should contain Intermediate Landing, Floor Landing & Each Tread as an open polyline. Intermediate & Floor Landing Poly can be Marked by PreDCR Tool "Mark>Staircase>Int. or		STR
	Floor Landing" (Note: If Premium for Staircase is going to be Paid, Staircase should be marked by using Tool "Mark>Staircase>Free from FSI"		000
_SubDivision	For Land Division Proposal, Draw each SubPlot (Subdivided Plot) as a Closed Polyline having Text/Mtext on _SubDivision layer		SBD
_SubStructure	SubStructures which are allowed in Margins or Layout & Free from FSI should be drawn as a closed polyline with text inside it.	Name of the SubStructure can be assigned from Mark>SubStructure tool.	SSTR
_Tank	Tank clear size should be drawn as a closed Polyline with Text on this Layer in Floor Plan or Plot as well as Section with same Text.		TNK
_Terrace	A closed polyline on _Terrace layer is a terrace. All kind of terraces like common top floor terrace as well as common terrace on any floor should be drawn on this layer.		TER
_Void	Draw a closed polyline on "_Void" Layer to represent void.		VD
_WaterBody	Draw Water Body as closed polyline.		R4
_Window	Draw a closed polyline on _Window" Layer to represent window. You can also use Insert tool to insert window poly for particular size.		WND

PreDCR Tools

While running the PreDCR software, you will get option to select AutoCAD version. You can select any of AutoCAD version to run the PreDCR Application. You will get PreDCR Tool bar and PreDCR Menu in that AutoCAD Application only. A detail for each tool is described below.



Figure 1: PreDCR Tool Bar

Create New Project: Edit New Project Information: Create Layers in the drawing (PDCRCL): Fix Poly (PDCRPE): Mark Margin (PDCRMARGIN): Verify close Poly (PDCRVD): Verify the Current Drawing (PDCRVT): Show Objection List (PDCROLST): Show PreDCR Report:



This command will Create New project for current drawing. As soon as you active this tool the following dialog appears. In which you have to fill all the Proposal details. Also it is mandatory to select Type of Project as

a. Building Development: Proposal having Development. It should not involve any Subdivision or

Amalgamation

b. Land Division (SD/AMLG): Proposal having Land Subdivision or Amalgamation

Note: It is always compulsory to add your drawing to new Project.

Project Information	
Project Detail InWard No. Description Load Data Show Details	Local Run
Type of Project	Building Development
	OK Cancel

Figure 2: Create New Project



Using this tool same New Project Dialog will appear and you can edit the details.

Create Layers in the drawing (PDCRCL):

This command will create layers required for AutoDCR and as per the Project Type you have selected. i.e. For Proposed Development type Proposal listed layers will be generated in drawing file.

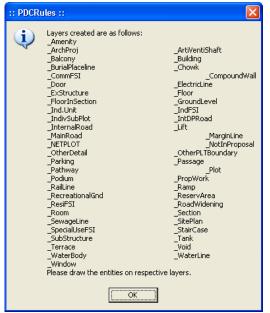


Figure 3: Create Layers



Use this command once on the final drawing which will process all the polylines on the PreDCR layer and remove extra vertices found on polyline. This command should be used (before verifying the drawing) every time you add any new entity in the drawing.

Mark Margin (PDCRMARGIN):

Use this command to mark side of the plot as Front, Rear or Side. Also you have to assign Plot width and Plot depth in drawing using same tool.

	ont margin, Side button	Front >>
for side margin and Rear button for Rear margin.		Rear >>
		Side >>
lote : lease Assign Plot Wig	th and Plot Depth From S	electing Plot P
	th and Plot Depth From S	electing Plot P
lease Assign Plot Wid	th and Plot Depth From S	electing Plot P Plot Width >

Figure 4: Mark Margin

Mark the Plot side which is overlapped with MainRoad as Front , opposite side as Rear & other sides as Side Margin. Assign Plot width & Depth in Drawing



This command will verify the current drawing as required by AutoDCR. It will Verify that LWPOLYLINE entities on the selected layers are closed and contain one text.

ect La	yer		?
	Select All	Layers Name List	
		_AppRoad _ArchProj _BasementBuiltUp _Building _BuildingLine	
		_Chowk _CommFSI _CommonPlot _Deduction _Door _DrainLine	
41		_Duct _ElecLine EvistRoad	
⊡ High	ilight Failed Entitie		
	٦	OK Cancel F	lelp

Figure 5: Verify Close Poly

Verify the Current Drawing (PDCRVT):

Use this command to verify the layout and building level objects in the current drawing plan. Major checks are as follows:

- Check if these entities are drawn as closed LWPOLYLINE.
- Name text is given to all objects.
- Entities are placed exactly inside their parent objects (container).
- Naming conventions are followed properly.

V	erify Con	nplete drawing	$\mathbf{\times}$
		List of abardian statements	
	Sel	List of checking statements Verify Plot/SubPlot/MainPlot/LocationPlan	-
		Verify MainRoad/RoadWidening/ExistingRoad	
		Verify SubDivision/Amalgamation	
		Verify Internal Road Verify Pathway/Approach Road	
		Verify Open/Amenity Space/ResrvArea	
		Verify Electric Line/RailwayLine/Waterbody/Greenbody Verify Proposed Work	
		Verify Exist Structure	
		Verify Drainline _WaterLine,	
		Verify Building Verify Floor	
	Ē.	Verifu Section	~
	<	>	
	🗹 Highlig	pht failed entities	
		OK Cancel	

Figure 6: Verify the Current Drawing

In the "Verify All Drawing Dialog" you can select the layout or building objects to be checked. To view the result, press OK button. PreDCR will start checking all corresponding objects in the currently open drawing and then display the status as OK or list of failed objects with the reason of failing in the dialog as shown in Figure.



Figure 7: Failed Entity Information

Show Objection List (PDCROLST):

This command gives the list of all minimum required entities which are not there in your drawing. If all required entities found then it gives a message that minimum required entities are present in drawing.

Show PreDCR Report (PDCRRPT):

This command will generate the PreDCR Report having all the Project details. All the verified and Failing entities having Information will be shown in this Report.

🥖 :: PreDCR Report	:: - Windows Internet Explorer				×
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Girestenear ungestricten Cerporation of Chemai	PreDCR Re	port	•	n Of Chennai 1 On : 21-08-2009	
Application Informati	on	Site Information			
File No.	COC/0052/09	LandUse Zone	Detached Area		
Case Type	Subdivision	Site Address			
Type of Proposal	Commercial	Name of Road	II Main road Gandhi Na	agar	
Name of Applicant	k.r.thiruvenkadam	Plot No	63A		
Zone Division	Zone-3	Door No	61		
DIVISION		Survey No Survey Village	Kottur		
Minimum requ		quirement.			
	uired object not found.				
1 General Speci 2 Perculation Pi					
	ing failure in drawing,		aion can't he sim	ant	
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Floor entities.					
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Figure 8: PreDCR Report

Use Special tools using PreDCR Menu

<u>Mark</u>: <u>Insert:</u> <u>Assign Name:</u> Tool:

Use Mark tool using PreDCR Menu

Marking adds some extra meaning in entity. Following commands are provided to mark different entities as per requirement.

Other Plot Boundary: Floor in Section: Staircase: FSI: Ind.Unit: Balcony: Projection: Bldg Line: Main Road: Road Widenings: Existing Work: Existing Structure: SubStructure: OtherDetail: Margin:

• Other Plot Boundary:

- As per Site: Mark poly drawn on _Other Plot Boundary as per site.
- As per Revenue Record: Mark poly drawn on _Other Plot Boundary as per Revenue Record
- o As per Document: Mark poly drawn on _Other Plot Boundary as per Document

• Floor Section:

o Floor to be demolished: Mark Section floor as Floor to be Demolished when required.

• Staircase:

- **Open Landing**: Draw diff poly for Open Landing Area on _Staircase Layer and Mark it as Open Landing
- o Open Staircase: Mark Stair Case as 'Open Staircase' when such Staircase is provided open.
- Fab/Spiral Staircase: Mark Staircase as Fabricated or Spiral Staircase
- o Marking to be provided in each Staircase
 - Intermediate Landing (PDCRMIL): Mark Intermediate Floor Landing Width (Open Poly) inside staircase as Intermediate Landing.
 - Flight Width (PDCRMFW): Mark Flight width (Open Poly) inside staircase as Flight Width.
 - Floor Landing (PDCRMFL): Mark Floor Landing width (Open Poly) inside staircase as Floor Landing.

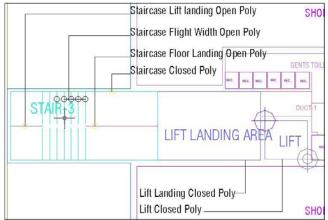


Figure 9: Staircase & Lift markings

- FSI:
 - FSI-> Free FSI@ Basement Area: Mark FSI as free FSI at Basement Floor.
 - o FSI-> Existing FSI: Mark FSI as Existing FSI in case of Addition/Alteration
 - FSI-> FSI to be Demolished: Mark FSI as FSI to be Demolished in case of Demolition and Construction.
 - FSI-> Normal (Default): Use this marking to unmark above listed FSI

• Ind.Unit:

- **Spited Tenement**: Mark more than one Ind.Unit for Splitted Tenement. i.e. When Tenement is having more than one Ind.Unit Poly e.g. Bungalow, Double Floor Flat.
- Normal (PDCRMNT): Mark Ind.Unit as individual tenement (Default)
- Balcony:
 - Service Verandah: Mark Balcony as Service Verandah
 - o Normal (Default) : Use this marking to unmark above marking

• Projection:

- o F.Bed : Mark Architectural Projection as Flower Bed
- o Weather Shed: Mark Architectural Projection as Weather Shed
- Wardrobes: Mark Architectural Projection as Wardrobes
- Loft: Mark Architectural Projection as Loft
- o Cantilever Portico: Mark Architectural Projection as Cantilever Portico
- Otta: Mark Architectural Projection as Otta
- Arch. Projection: Mark Architectural Projection as Arch. Projection
- **Connecting Corridor**: Mark Architectural Projection as Connecting Corridor.

(Note: Even though any Projection is considered in FSI Area, Each Projection (except Loft) must be drawn outside & overlapped with the FSI Poly at Floor LvI or with PWork at Layout LvI and each Arch. Projection must be marked through PreDCR Mark>Projection Option)

- Bldg. Line:
 - **Bldg Line** : Mark Bldg Line on specific Road using this tool.

Building line information	×
Choose building line Building line for Existing Roads New Roads Other Road	
Choose one of road name in following list	
North Beach Road And Kamaraj salai 🔹 👻	
Choose one of Strech Road Name come in above Road Name list in following list.	
×	
OK Cancel	ĺ

• MainRoad:

o Abutting Passage: Mark Main Road as Abutting Passage is Plot is accessing any Passage

• Road Widening:

• **Taken In FSI:** Mark RoadWidening poly as Taken in FSI when RoadWidening area is considered for calculationg the Permissible FSI Area/Coverage area

• Existing Work:

This command is used to mark a part of Building as an Existing work. When Any Existing Bldg detail is provided, draw each entity on PreDCR Layer and mark each of them as "Existing Work"

• Existing Structure:

- **To be demolished** (PDCRMREXWD): Mark an Existing work which is to be demolished as "To be demolished".
- To be retained (PDCRMREXWR): Mark an Existing work as to be Considered for calculation without any corresponding Bldg Detail as "To be retained"

• SubStructure:

- Electric Room: Mark Sub Structure as Electric Room
- **Transformer:** Mark Sub Structure as Transformer
- o Watchman cabin/Security Room: Mark Sub Structure as Watchman cabin or Security Room
- o Servant Quarter : Mark Sub Structure as Servant Quarter
- Garage: Mark Sub Structure as Garage
- o Rain Water Harvesting: Mark Sub Structure as Rain Water Harvesting
- Motor Room: Mark Sub Structure as Motor Room
- Septic Tank): Mark Sub Structure as Septic Tank
- Sewage Treatment Plant: Mark Sub Structure as Sewage Treatment Plant
- Lumber Room: Mark Sub Structure as Lumber Room
- o Gate Pillars: Mark Sub Structure as Gate Pillars
- Lavatory: Mark Sub Structure as Lavatory
- **Pebble Bed:** Mark Sub Structure as Pebble Bed
- o Solar Heating System: Mark Sub Structure as Solar Heating System
- **Gymnasium:** Mark Sub Structure as Gymnasium
- o Generator Room: Mark Sub Structure as Generator Room
- AHU: Mark Sub Structure as AHU
- Electric/Switch Gear room: Mark Sub Structure as Electric/Switch Gear Room
- Letter Box Room: Mark Sub Structure as Letter Box Room

- Other Details:
 - Perculation Pit: Mark closed Polyline around Sectional Detail for Percolation well as Perculation Pit Section
 - General Specification: Mark closed Polyline around General Specification

Note: User has to make one Boundary around the details such as Column footing detail, Compound wall section, Elevation etc. which details are need to be taken in final Printing and which are not used in PreDCR Conversion.

• Margin:

Refer Mark Margin Tool

Use Insert tool using PreDCR Menu

Following commands are provided to insert various blocks/Text in your drawing.

Parking:	
Door:	
<u>Window:</u>	
Sanitation Text:	
Direction Reference Circle:	

- Parking:
 - **Car:** Insert Car Parking Unit
 - o Two Wheeler: Insert Two Wheeler Parking Unit
 - Transport Vehicle : Insert Transport Vehicle Parking Unit
- Door:
 - Door (PDCRIDRNAM): Use this command to insert Door Poly at specific point. Door must be overlapped with Room at one side

Name:	(e. g. D	1,D2etc.)
Door's dim Width	ension Depth	Height
0.9	0.11	2.1

Figure 10: Insert Door

Give Door Name and Dimension as per drawing. Door Poly with Text will be inserted in drawing.

- Window:
 - Window (PDCRIWNDNAM): Use this command to insert Window Poly at specific. Window
 must be overlapped with Room at one side & at other side with the Entity from which Room is
 getting ventilation

Name:	(e. g. W	l , W2 etc
Window's Width	dimension Depth	Heigh
1.8	0.11	1.2

Figure 11: Insert Window

Give Window Name and Dimension as per drawing. Window Poly with Text will be inserted in drawing.

• Sanitation Text:

- **Urinals:** Use this command to insert Text for Urinals for Sanitation for any Use except Residential Use.
- Water Closet: Use this command to insert Text for WC used for Sanitation for any Use except Residential Use.
- **Wash Basin:** Use this command to insert Text for WB used for Sanitation for any Use except Residential Use.
- **Drinking Water:** Use this command to insert Text for Drinking Water for any Use except Residential Use.
- Direction Reference Circle:
 - **Direction Ref Point (Orientation)**: Use this command to insert Direction Ref Point (Orientation) inside Floor and PropWork.
 - **Common Point (Pivot)**: Use this command to insert Common Point (Pivot) inside Floor and PropWork.

Use Assign Name tool using PreDCR Menu

Building and Prop.Work:	
Room:	

Floor Name:

Tank:

• Building and Prop.Work:

• **Building and PropWork** (PDCRBLDPWNL): Use this command to assign the names to Building and its corresponding PropWork at Layout.

Building & PropWork Na	ime	×
(Please enter unique nam	e for building	g and wing names)
WING Name :		(e.g. A or B)
BUILDING's Name :		(e.g. Monarch)
		OK Cancel

Figure 12: Assign Building & Pwork Name

Note: Each Bldg & PWork(BUA in Layout) entity name must be assigned through PreDCR.

Room:

o Use this command to assign names to Different Room

Residential O Bed Room O M.Bed Room O Ch.Bed Room O Dinning/Kitchen O Living/Kitchen O Living/Dinning O Study Room	O Living O Kitchen O Dinning O Puja O Store O Bath O W C	Commercial O Room O Pantry O Cabin O Office O Bakeries	O Reception O Restaurant O Cafeteria O Showroom O Hotel Room	O Confe O Entrar O Fire Co	tmental Store O Laundry rence Hall O Shop nce Lobby O Atrium ontrol Room O Bank Ig Room O Safe Room
O Guest Room O CommonToilet O Attached Toilet	 Wash Toilet Combined Toilet Kitchenette Family Room Utility Hall Entrance 	Communication Communication Communication Communication Communication Communication	Im O Libr Ward O Lab Room Hall y Hall n Theatre + Hall		Class Room Class Room Staff Room Staff Room Kindergarden Industrial Workshop Storage Room Open Shed Shed Shed Factory Godown

Figure 13: Assign Room Name

• Floor Name:

o Use this command to assign names to Floor and it's corresponding SectionFloors.

As soon as you use this command the following Dialog Box appears. Now select particular floor name which you want to assign.

to-Assigning Floor Nai	nes		
TYPICAL			
Floor number	Separator , (Comma) - (Hypen) & (And)	Floor names FIRST SECOND THIRD FOURTH	
Select Floor Name		 LLOW PLINTH <mark>I _ ON SC</mark>	
TYPICAL - SECOND ON Note : Allowable range of floor Don't start a floor number	number 1 to 25.	N HOLLOW PLINTH	FLOOR PLAN
(e. g. TYPICAL 1- 4, 6 &) GROUND, PARKING FLI			_AN, TYPICAL •
Reset			OK Cance

Figure 14: Assign Floor Name

- Each Floor-SectionFloor name must be assigned through Assign Name>Floor Tool.
- o Each Floor & SectionFloor must be having same Floor name without any Spelling Mistake
- Typical Floor Name must be assign by using Comma, Hyphen and & through Assign Name>Floor

- Tank:
 - Use this command to assign names to Different Tanks
 While assigning name to Tank following Dialog Box appears. Select particular Tank name to assign.



Figure 15: Assign Tank Name

Use other tool using PreDCR Menu

- **Give Unique no. to Parking (PDCRPKN):** This command is used to give unique numbers to different Parking Poly
- Shortest distance (PDCRFSD):

This command will find the shortest distance between two entities.

- Show Only PreDCR Layers:
 - All PreDCR layers (PDCRSPL):

This command will turn off all the layers in the drawing except PreDCR layers.

b. Building level layer (PDCRSBL):

This command will turn on all the building plan level PreDCR layers in the drawing.

c. Layout level layer (PDCRSLL): This command will turn on all the Layout plan level PreDCR layers in the drawing.

• Show Only DCR Layers (PDCRSDL):

This command will turn off all the layers in the drawing except DCR layers.

- Show Only Other Layers (PDCRSOL):
 - This command will turn off all the DCR and PreDCR layers in the drawing.
- Show All layers (PDCRSAL);
 - This command will turn on all layers in the drawing.
- Show Objection List:

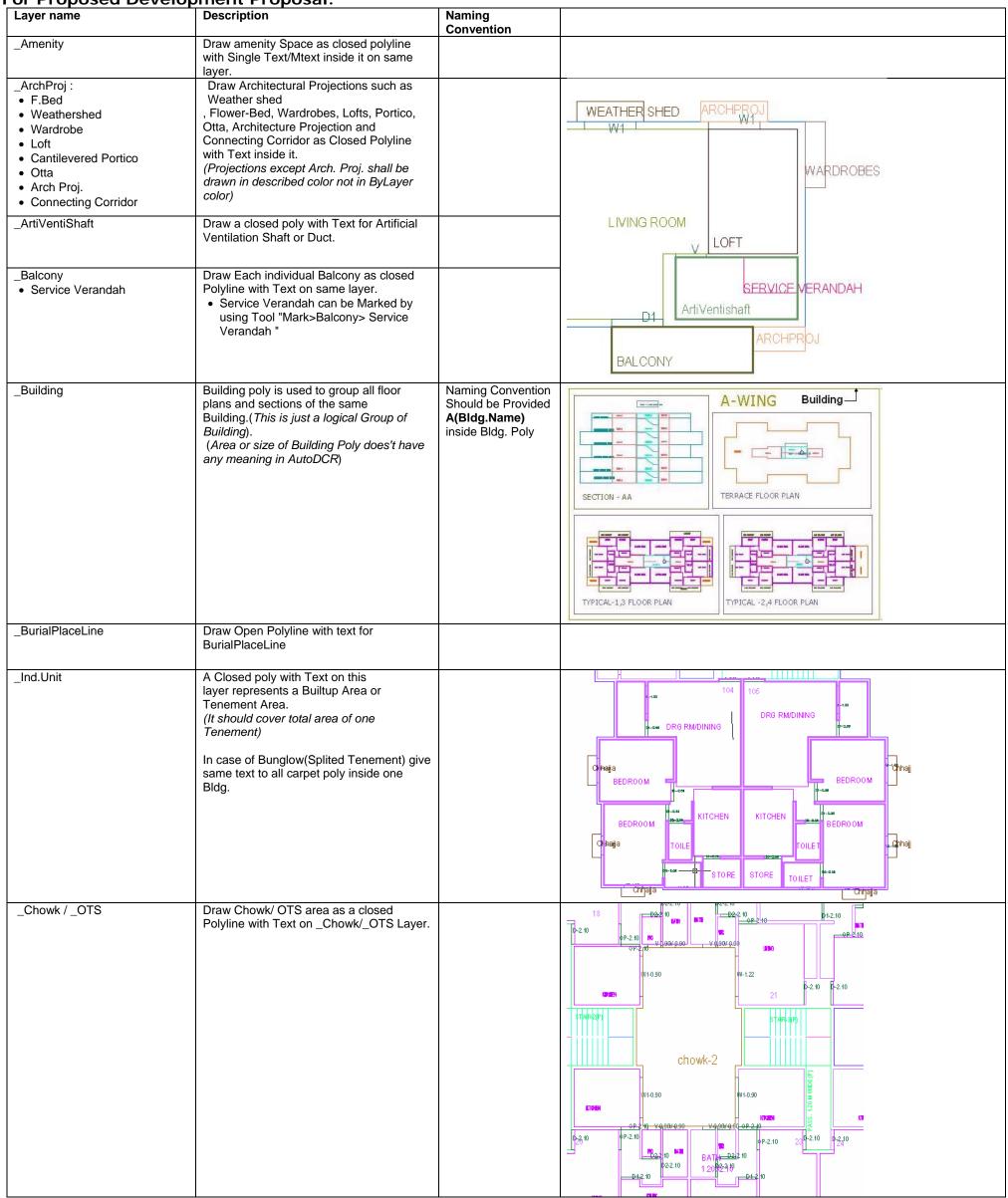
This command will show you Objection List. Refer Show Objection List

- Calculate Total Area (PDCRCTA):
 - This command will compute the total area of all selected closed polygons.
- Calculate Deducted Area (PDCRCDA): This command will compute the area of closed polygon after deducting closed polygons found inside.
- Get All Inside Poly (PDCRFIP): This command will highlight all polygons, which found exactly inside selected polygon under test.
- Get All Overlapping Poly (PDCRGOP): This command will highlight all polygons, which are overlapping with selected polygon under test.
- Get All Intersecting Poly (PDCRGIP): This command will highlight all polygons, which are intersecting with selected polygon under test.
- Find Open Entities (PDCRFNDO): Highlight open entities on PreDCR layers
- Find Closed Entities (PDCRFNDC): Highlight closed entities on PreDCR layer.
- Shortest distance (PDCRFSD):
- This command will find the shortest distance between two entities.
- **Spelling check (_spell):** This tool is used for spelling checking.
- Find Object (PDCRFOBJ): This command zoom & highlight object of a given handle.

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:



0	Derve also al EQUIDALA instruction is used	1	
_CommFSIFree FSI @Basement	Draw a closed FSI PolyLine, which is used as a Commercial Purpose.		GROUND FLOOR PLAN
Existing FSI	(Line type of Existing FSI poly should be		
	ACAD_ISI02W100)		
			2.1012 31.2012 31.2013 41.2014 81.2015 81.2016 91.2016 <th< td=""></th<>
_CompoundWall	Closed polyline of compound wall to be drawn on this layer overlapping plot.	0.0 m. high compound wall.	
_Door	Door shall be drawn as a closed polyline	D-2.10	BEDROOM
	with Text. Door Height should be given in Text as	D1-2.10 FD-2.40	P1-2.06
	described here. (Text's Insertion Point must be Inside Poly)	RS-2.50	
			KITCHEN BEDROOM
			TOILET W2-1.7
			D1=2:06
_Electricline	Electric line shall be drawn as open Polyline with Text whose insertion Point	High Tension Line	
	lies on the Polyline.		
	(Note : High or Low Voltage capacity must be written at a starting of Text)		∓
_ExStructure :Exist.work To be Demolished	Draw an Existing work as a closed Polyline with Text inside it.		A-1 (GOMATHY)
Exist.work To be Retained			10 BEC
			PORTICO
			HIGH TENSION LINE
			Ex8rudure TO BE RETAINED-1
			18.00 mt. WIDE ROAD
_Floor	Floor poly should be drawn as a closed Polyline with Text on same Layer. This is	Naming Convention will be	
	just a logical Group of all floor Entities.	Provided as per shown in	
	Common Reference Point Draw a circle on _ResiFSI layer inside each floor poly at	Description	WARDROBES WEATHER SHED
	the same point. You can draw it on		StairCase
	common areas of the bldg. such as lobby, staircase, lift etc.		
	Direction Reference Point Draw a circle on _Floor layer inside each floor poly		DIE LOFT
	at the same point. You can draw it on common areas of the bldg. such as lobby,		FLAT-101
	staircase, lift etc.		
	Note: Common Reference point &		UIFT W1 D1 ArtiVentishaft
	Direction Reference point must be inside Each Floor at same location		BALCONY
	Floor Name: Floor Plan will be		
	automatically link with Section by matching		DIRECTION
	the Floor Name. If the Floor is Typical Floor, It should be Named with Proper		REFERENCE POINT
	Naming convention.		
	Naming Convention for Floors Normal Floor: X Floor Plan 		TYPICAL - FIRST, SECOND FLOOR PLAN
	Typical Floor: TYPICAL-X,Y & Z FLOOR PLAN		
	Note:		
	 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.		
	Orathan (I		
_FloorInSection	Section floor poly will represent each floor section with its name inside SectionFloor :	Inside SectionFloor: SECOND FLOOR,	TERRACE FLOOR
	Floor Plan will be automatically link with SectionFloor by matching the Floor Name.	THIRD FLOOR, GROUND FLOOR.	
	If the FloorPlan is Typical Floor Plan, It should be Named with Proper Naming		FIRST FLOOR LIFT SHAFT
	should be Named with Proper Naming Convention.		
			GROUND FLOOR

Generational The Good and well and and a basis as the provide of the Construction of the Constructio				
India Doer Ackets 50 Major, when is stad India Doer Ackets 50 Major, when is stad India Doer Ackets 50 Major, when is stad India Fire plana physics are instands a substa India Doer ackets 50 Major, when is stad JindPRead Doer ackets 50 Major, when is stad JindPRead Doer ackets fire plana physics are instands and physics JindPRead Doer ackets fire plana physics are instand thread on a close as a state to plana physics are instand thread physics. JindPRead Doer ackets fire plana physics are instand thread on a close as a state to plana physics. JindPRead Doer ackets fire plana physics are instand thread physics. JindPRead Doer ackets fire plana physics. <tr< td=""><td>_GroundLevel</td><td>an open polyline in the section poly. Prop.Ht. will be considered from GroundLvl</td><td></td><td>STILT FLOOR</td></tr<>	_GroundLevel	an open polyline in the section poly. Prop.Ht. will be considered from GroundLvl		STILT FLOOR
Pref PSI Bleammin Watch Marketter Paroxi. Watch MarkettereParoxi. Watch MarkettereParoxi. Wat				GL
_ IndeSuPPix Dot default leader date indexide is a plat of the indexide is a	Free FSI @Basement	as a Industrial Purpose. (Line type of Existing FSI poly should be		
Image: Image: Index address of the find state is a biologic with constrained with a state is				
IntDPRoad Draw an Estimptifypogod DP Road as a 12.50 m vd. Existing Road More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh must be witten at a sinter 6. More, Road widh and as a Closed Polyline with 6 actin the function of the funcion of the functio	_ IndivSubPlot	on '_indivsubplot' layer inside main plot		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Polyline with Centre Line (Lype-CentreLine) & Single Text Inside each. (Road Width should come first in Text).) Internal Road Lift A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Internal Road Juff A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Internal Road Juff A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Internal Road Juff A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Internal Road Juma A closed polyline on the inner dimensions of the lift should be drawn on this layer with Text. Internal Road Juma Draw Each Main Road (Abutritig the Plot) as a Closed Polyline with Single Text the Road Width mould come first in Text (Road Width Mark-Bidg Line tool) 12.00 mt. wd. Main Road Marginine Margin Polylines will be created by System (User need not do anything on this kyer). Internal Road (Abutritig the Plot) the angle and which is not in possession of which is not in posse	_IntDPRoad	closed Polyline with text inside it. (Note: Road width must be written at a	12.50 m wd. Existing Road	
Image: section of the lift should be drawn on this layer with Text. Ltft: Machine Room shall be also drawn in same Layer with Text. Wachine Room at Section STORE STORE STORE STORE Store store		Polyline with Centre Line (Ltype- CentreLine) & Single Text inside each. (Road Width should come first in Text).)		
as a Closed Polyline with Single Text inside each. (Road Width should come first in Text) (Building Line of Road can be mark by Mark>Bildg.Line tool) Road	_Lift	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		STORE
_NETPLOT Netplot area is a Net area after Deduction of RoadWidening/Reservation From Gross Plot area _NotInProposal Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer. _OtherPLTBoundary Draw closed Ploylines for Other Plot	_MainRoad	as a Closed Polyline with Single Text inside each. (Road Width should come first in Text) (Building Line of Road can be mark by		
_NETPLOT Netplot area is a Net area after Deduction of RoadWidening/Reservation From Gross Plot area _NotInProposal Plot area which is not in possession or which is not in proposal to be drawn as a closed polyline on this layer. _OtherPLTBoundary Draw closed Ploylines for Other Plot	_Marginline	Margin Polylines will be created by System		
which is not in proposal to be drawn as a closed polyline on this layer. OtherPLTBoundary Draw closed Ploylines for Other Plot		Netplot area is a Net area after Deduction of RoadWidening/Reservation From Gross Plot area		
_OtherPLTBoundary Draw closed Ploylines for Other Plot	_NotInProposal	which is not in proposal to be drawn as a		
Boundary i.e. Plot area as per Document	OtherPLTBoundary	Draw closed Ploylines for Other Plot		

_Parking _Passage	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 Draw Passage as a Closed Polyline with	Text should be start	TW TW TW TW TW CP CP CP CP CP TW TW TW TW TW TW TW TW TW TW TW TW TW
r assaye	Centre Line (Ltype-CentreLine) & Single Text inside each.	with width of Passage Ex 1.80mt. wide Passage	D112 D123 D143 D144 D144 D144 D144
_Pathway	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	Draw Plot as a closed Polyline with Text inside it. At Layout Plan & Key Plan		F-14 F-13 F-12 F-11 F-14 F-13 F-12 F-11 Plot Plot C-5 C-6 B-4 B-3 B-2 A-1 PLOT B-4 B-3 B-2 A-1 PLOT B-2 A-1 PLOT
_ Podium	Draw closed Polyline for Podium Structure		
PropWork	in Layout Plan 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	WARDROBES WEATHER SHED ArtiVentishaft A-1 (GOMATHY) LIFT VITO ARCHPROJ PORTICO BALCONY DIRECTION REFERENCE POINT DIRECTION REFERENCE POINT
_RailLine	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	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	New Constant
_RecreationalGnd	Draw a closed polyline on "_RecreationalGnd" Layer to represent reserved as recreational space.		

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_ReservArea	If there is any Reservation Area in Plot, Reservation Area should be drawn as a closed Polyline with Text inside same Layer.	A1 (PATEL) RESERVATION RESERVATION RESERVATION RESERVATION RESERVATION
_ResiFSI • Free FSI @Basement • Existing FSI	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</i> ACAD_ISI02W100)	
_RoadWidening • Taken in FSI	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	PLOT ROAD WIDENING T.5 MT MAIN ROAD T.5 MT MAIN ROAD
_Room	A closed polyline for each room with its text inside should be drawn on this layer.	KITCHEN P2-200 BEDROOM TOILET STORE TOILET P2-200 Chhai Chhai
Section	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 does't have</i> <i>any meaning in AutoDCR</i>)	CONTRAINE CONTRAINE
_SewageLine _SitePlan	Drain line shall be drawn as an open polyline on this layer. The encapsulating poly around the Site/Key Plan with the Text & Scale inside it. (Note : Scale should be written as described. Scale:1:500)	RAIL LINE RAIL LINE
_SpecialUseFSI Free FSI @Basement Existing FSI 	 FSI ploy for all other building uses like educational, institutional etc. except resi.,comm. industrial use should be drawn on this layer. (Line type of Existing FSI poly should be ACAD_ISI02W100) 	Open Landing WARDROBES Int. Landing ArtiVentishaft STAIRCASE Floor Landing

_StairCase	Total Staircase area should be drawn as a	Give Proper	
 _StarCase Intermediate landing Flight Width Floor Landing 	I otal 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</i> & Floor Landing Poly color should be as described)	Give Proper Naming convention for other staircase like Open staircase, Open Landing, Fabricated/spiral staircase	
_SubStructure:	SubStructures which are allowed in		
 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 	Margins or Layout & Free from FSI should be drawn as a closed polyline with text inside it. (Each SubStructure <i>should be drawn As</i> <i>per described Colour</i>)		Benerator Boom ElectricSwith Geer Room TRAINSFORMER METER ROOM Recrestices/Grund LOPLANT ROOM WIA TCHMAIN ROOM WIA TCHMAIN ROOM
_Tank	Tank clear size should be drawn as a closed Polyline with Text on this Layer in	Naming Convention will be Provided as	Section
_Terrace	Floor Plan/Layout Plan as well as Section with same Text. (<i>Note: Tank No. & Capacity should be</i> <i>written in Text</i> " For Overhead tank- (O/H)Tank(1)-5000Ltr. (* 1 is tank No.) For Underground tank- (U/G)Tank(1)-5000Ltr. (* 1 is tank No.)	per shown in Description	Hachine Brown TANK-1(OAH) Capacity=15000Lr Terrace Floor Plan is Second Floor Plan is First Floor Plan is Ground Floor Plan is TANK-2(UG) Capacity=25000Lr Floe1 Proposed Work A+1(Menarch) Ploe1
			CPBN TERRACE FLOOR PLAN
_Void	Void should be Draw as Closed Poly with Text inside in same layer		Open Landing W1 WARDROBES VOID STAIRCASE LIVING ROOM KITCHEN FAB/SPIRAL STAIR CHOWK/OTS VOID ARCHPROJ BALCONY
_WaterBodies	Water body should be Drawn in Close poly with text inside		
_WaterLine	Waterline shall be Drawn As open poly on		
L	this Layer		

Window Draw Closed Poly & insert Text in same Layer with window ht.	W-1.20,W1-0.90,V- 0.60	TOILET V=0.6 V=1.22 Chhajja
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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		7.50mt. wd road
_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		12.0mt. wd roed ROAD WIDENING Plot:B Plot:C Main Plot PLOT SUB PLOTS Plot:A Cold

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PreDCR User Manual

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