



Digital Plan Lodgement CAD Standard

*V1.0
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Document Control Information

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Change History

Version	Date	Change Summary
0.1	Nov 2019	Initial Draft for Industry Consultation
0.2	Feb 2020	Updated following Industry feedback
0.3	June 2020	Updated following Industry feedback
0.4	December 2020	Updated following Industry feedback
1.0	April 2021	Updated following Industry feedback

1. Overview

1.1. Background

The Digital Plan Lodgement Initiative enables plan diagrams to be uploaded for lodgement using the Electronic Plan Lodgement (EPL) system in a DWG format. This document outlines the standard required to prepare the DWG file in an acceptable and consistent format for lodgement.

For plan presentation requirements please refer to Plan Presentation Guidelines (PPG).

1.2. Definitions and Acronyms

Term	Definition
CAD	Computer Aided Drafting
DWG	Default drawing file format DWG is a proprietary binary file format used for storing two- and three-dimensional design data and metadata. It is the native format for several CAD packages
Model Space	Defined drawing space A working environment that is a limitless 3D drawing area
Paper Space	Defined drawing space for placing diagram sheets etc. A working environment used to prepare your drawing for printing by creating layout viewports that display different views of model space



Layout	Electronic drawing sheet within a drawing file upon which data can be drawn and manipulated. A 2D working environment for creating drawing sheets. The area within a layout is called paper space, where you can add a title block, display scaled views of model space within layout viewports, and create tables, schedules, notes, and dimensions for your drawing
Layer	Layers are the primary method for organising the objects in a drawing by function or purpose. Layers can reduce the visual complexity of a drawing and improve display performance by hiding information that is not required to be seen. A layer can be turned on or off as required
BYLayer	Settings of linetypes and colours for specified entities
Purge	AutoCAD command to delete any entity information that is not being used in the CAD file
Block	A subordinate drawing file within the main drawing file

2. CAD File Format Requirements

2.1. Minimum Requirements for Acceptance of CAD files

The following CAD requirements are required for digital lodgement of a DWG:

- 2.1.1. Only one DWG is to be lodged containing all the required diagram sheets.
- 2.1.2. In model space, there is one diagram that is drawn to scale (one drawing unit = one metre) i.e. no broken linework.
- 2.1.3. Lease and Community Strata plans may have more than one representation of the plan in model space.

Refer to 3.5 Lease Plans and Community Strata Plans for more details.
- 2.1.4. All entities within the drawing file must have the colours and linetypes set to BYLAYER.
- 2.1.5. DWG file size must be no greater than 5MB

2.2. Co-ordinates

- 2.2.1. For all plans except Lease and Community Strata plans, the DWG must contain a minimum of one point in current MGA co-ordinates, preferably being the closest survey mark to the subject land. For Lease and Community Strata plans refer to 3.5.
- 2.2.2. For Data Plans where the plan does not contain survey marks, a point from the DCDB extract or a GPS derived coordinate can be used, being a point on the subject land boundary.
- 2.2.3. The bearing and distance labels must be shown reflecting ground data with an appropriate Combined Scale Factor (CSF) already applied.
- 2.2.4. The linework can be shown reflecting either the MGA data prior to the CSF being applied or the ground data.
- 2.2.5. For all plans except Lease and Community Strata plans, the Drawing Scale Factor (DSF) and the Origin Point must be displayed as an attribute within the Title Block. For Lease and Community Strata plans refer to 3.5.



- 2.2.6. The Drawing Scale Factor (DSF) shown is the Combined Scale Factor (CSF) to be used to convert the linework to Ground data.
- Where the linework is shown reflecting the ground data, the DSF must be 1.0.
 - Where the linework is shown reflecting the MGA data, the DSF shown is the CSF to be used to convert the linework from MGA data to Ground data.
- 2.2.7. Where the linework is shown reflecting the Ground data, the Origin Point is the point used to fix the drawing to at least one MGA co-ordinate.
- 2.2.8. Where the linework is shown reflecting the MGA data, the Origin Point is the point used as the starting point from which the CSF is applied.
- 2.2.9. For a certified survey plan, the Origin Point will be in the following format – PSM xxxx/yyyy.
- 2.2.10. For an uncertified plan, (including Community Plans), the Origin Point will be in the following format – Corner X, where an additional corner number may be shown on the plan where necessary.

2.3. Model Space, Paper Space, Layouts and External References

- 2.3.1. All CAD drawings except for Lease and Community Strata plans, must be drawn as one continuous and uniform plan in model space. For Lease and Community Strata plans refer to 3.5.
- 2.3.2. Multiple representations, including enlargements, must be shown in paper space.
- 2.3.3. All linework and Reference Marks must be in model space only.
- 2.3.4. For every diagram sheet required as part of the plan lodgement, a corresponding layout in Paper Space is required using the naming convention DS_(X) where X is the diagram page number e.g. DS_(1), DS_(2), DS_(3), etc.
- 2.3.5. All DWG files should be purged of any external reference files prior to upload.
- 2.3.6. All annotative text must only have one set annotative scale.
- 2.3.7. All annotative blocks may have multiple set annotative scales.

2.4. Layer Naming

- 2.4.1. All layers must be named based on the LSSA layer standard, see [Appendix A – Layer Standard](#)

Note: The composition of layer names are defined in [Appendix B – Layer Naming Structure](#)

- 2.4.2. Layers not defined in [Appendix A – Layer Standard](#) need to be purged from the drawing prior to being submitted for validation and lodgement.

2.5. Linetypes

- 2.5.1. All linetypes and lineweights are to be set to BYLAYER.
- 2.5.2. Specific linetypes are defined in [Appendix A – Layer Standard](#)



2.5.3. The following Linetype Scales are recommended to be set to 1:

- PSLTSCALE
- MSLTSCALE
- LTSCALE
- CELTSCALE

2.5.4. The linetype scale may be adjusted where required for lines such as short connections to best display a dashed line.

2.5.5. Lineweight is set within the Layer Properties and must not be modified for individual entities.

2.6. Font Styles

2.6.1. The following fonts will be accepted:

True Type fonts:

- Arial
- Arial Narrow
- Calibri
- SWIS721 CN BT
- Tahoma
- Dashed (LSSA supplied font)

2.7. Character Height and Pen Point Size

2.7.1. Character height must be consistent throughout the plan.

2.7.2. The Width Factor of the text may be reduced to a minimum of 0.85.

2.8. Symbols/Blocks

2.8.1. All blocks within the DWG file shall have their entities drawn on the correct corresponding layer as defined in [Appendix A – Layer Standard](#)

2.8.2. The insertion point of all Reference Mark blocks is predefined to be the centre of the block.

2.8.3. Block naming conventions are defined in [Appendix A – Layer Standard](#)

2.8.4. Pops must be drawn using the LSSA Block which uses a Wipeout object to mask out the linework.

2.8.5. All LSSA Supplied blocks include the invisible LSSA_BLOCK_NAME attribute containing the name of the block as defined in Appendix A – Layer Standard e.g. for the Corner Mark Block the LSSA_BLOCK_NAME attribute will be CRNR_MARK. All blocks require this attribute and must not be modified.

2.9. Drawing Units

2.9.1. All drawings shall be drawn at a scale of one drawing unit = 1 metre in Model space.



2.10. Colour Settings

- 2.10.1. All entities shall have the colour set to the relevant BYLAYER properties.
- 2.10.2. All entities shall use the colour number defined in [Appendix A – Layer Standard](#) rather than the colour name.
- 2.10.3. Colour naming conventions are defined in [Appendix A – Layer Standard](#)

2.11. Plot Styles

- 2.11.1. All drawings must be prepared using a monochrome CTB (Colour dependent plot style table).

3. Drafting Guidelines

3.1. Layers

- 3.1.1. Street names for newly created roads must be on the *Parcel Identifiers* layer (A-PRCL-IDNT).
- 3.1.2. Parcel type labels e.g. Reserve, must be on the *Parcel Identifiers* layer (A-PRCL-IDNT).
- 3.1.3. Copied data must use multiline text showing the dashed underline using the minus sign character with an appropriate “Line space factor” which is automatically set if the supplied LSSA LISP command (CD) is used.
- 3.1.4. The CALC annotation must be on the *Calculated Distances* layer (A-DIST-CALC).
- 3.1.5. When a multileader or Qleader is used for an arrow it must be on the *Arrow* layer (B-ARRO).
- 3.1.6. Duplicate lines must not exist e.g. where lines are on the *Extent of Land* layer (L-BBL~) a duplicate line must not be shown on the *Whole Parcels* layer (L-PRCL), with lines on the *Administrative Boundaries* layer (L-ADMN) being the only exception.
- 3.1.7. When a polyline is used it must be on the relevant layer e.g. the *Whole Parcels* layer (L-PRCL) or the *Administrative Boundaries* layer (L-ADMN).
- 3.1.8. Where multiline text is used it must be on the relevant layer e.g. the *Roads and Streets* layer (A-ROAD).
- 3.1.9. The following layers must have their plot settings set to ‘do not plot’:
 - View Port layer – L-VIEW-PORT
 - Easement True layer – L-EASE-TRUE
 - Reference Marks True layer – B-RMRK-TRUE
 - Connections True layer – L-CONN-TRUE
 - Annotative Note layer – A-NOTE
 - Linework Note layer – L-NOTE
 - Pops True layer – B-POPS-TRUE
 - Abuttal True layer – L-ABUT-TRUE
 - Administrative True layer – L-ADMN-TRUE
 - Bold Black Line True layer – L-BBL-TRUE



- External Easement True layer - L-EASE-EXTR-TRUE
- Internal Easement True layer – L-EASE-INTR-TRUE
- Historical True layer – L-HIST-TRUE
- Parcel True layer – L-PRCL-TRUE
- Tieline True layer – L-TIEL-TRUE

3.1.10. The first Sheet Layout Title Block (TITLE_BLOCK_1) must have the following attributes completed in the block

- BEARING DATUM
- DERIVATION
- Drawing Scale Factor
- ORIGIN POINT
- TOTAL AREA

3.2. Easements

3.2.1. Where the linework for easements requires exaggeration for presentation purposes, the linework must be shown in model space in the true position, on the *Easement True* layer (L-EASE-TRUE).

3.2.2. The exaggerated linework must be shown in model space on the *Easement Exaggerated* layer (L-EASE-EXTR-EXAG or L-EASE-INTR-EXAG).

3.3. Reference Marks

3.3.1. All Reference Marks (including non-PSMs) must have the following attributes completed in the block (in accordance with the Reference Marks Schedule), where applicable:

- CNR
- BEARING
- FROM
- DIST
- PM NO (where applicable)
- COMMENT (i.e. New Fix)

3.3.2. Where Reference Marks are shown as exaggerated and true, the attributes must be completed in full for the block that is on the B-RMRK-TRUE layer. For the corresponding reference mark on the B-RMRK-EXAG layer a minimum of the PM NO, FROM and CNR attributes must be completed.

3.3.3. Where a Reference Mark is shown as NLF on the plan, NLF must be included in the Comment attribute and the PM NO attribute must be completed. Non-PSM reference marks (MP, MN etc) must have the attributes completed if they are shown in the reference mark schedule.



- 3.3.4. All Reference Marks must be shown in their true location except those on the B-RMRK-EXAG layer.
- 3.3.5. Where the position of the Reference Mark requires exaggeration for presentation purposes, the Reference Mark block must be shown in model space in the true position, on the *Reference Marks True* Layer (B-RMRK-TRUE) and the connection to the mark must be on the *Connections True* layer (L-CONN-TRUE).
- 3.3.6. The exaggerated Reference Mark block must be shown in model space on the *Reference Marks Exaggerated* layer (B-RMRK-EXAG) and the connection to the mark must be in model space on the *Connections Exaggerated* layer (L-CONN-EXAG).

3.4. Misclosures

- 3.4.1. Where misclosures occur in a polygon the linework must show as closed for presentation purposes.
- 3.4.2. The closing lines must be adjusted to close. An additional closing line must not be used.

3.5. Lease and Community Strata Plans

- 3.5.1. After uploading a Lease or Community Strata plan, only the CAD Standard validation will be run and if successful or passes with warnings will the tiff images be generated.
- 3.5.2. Lease and Community Strata plans may have more than one representation of the plan shown in model space and are not required to be positioned in its true MGA location.
- 3.5.3. The Drawing Scale Factor (DSF) must only be displayed within the Title Block when the plan includes distances. Refer to 2.2.6 for further information regarding the DSF.
- 3.5.4. The Origin Point must only be displayed within the Title Block when the plan has been fixed to at least one MGA co-ordinate.



Appendix A – Layer Standard

Layer Name	LSSA Object Name	Colour	Linetypes	Block Name	Object Location
A-ABUT	Abuttals ID	3 (Green)	Continuous		Optional
A-ADMN	Administrative Names	93 (Green)	Continuous		Optional
A-BRNG	Bearings	40 (Lt Orange)	Continuous		Optional
A-BRNG-COPD	Copied Bearings	41 (Lt Orange)	Continuous		Optional
A-BRNG-DATM	Bearing Datum	230 (Dk Pink)	Continuous		Optional
A-CONT	Continuations	104 (Dk Green)	Continuous		Optional
A-DSF	Drawing Scale Factor	252 (DK Grey)	Continuous		Paper Space
A-DIST	Distances	8 (Grey)	Continuous		Optional
A-DIST-CALC	Calculated Distances	253 (Grey)	Continuous		Optional
A-DIST-CHNG	Running Chainages	254 (Grey)	Continuous		Optional
A-DIST-COPD	Copied Distances	253 (Grey)	Continuous		Optional
A-EASE-IDNT	Easement identifier	1 (Red)	Continuous		Optional
A-ENLG	Enlargement label	83 (Green)	Continuous		Paper Space
A-GNRL	General label	241 (Pink)	Continuous		Paper Space
A-HIST	Background Information	120 (Aqua)	Continuous		Optional
A-NOTE	Non plotted layer for notes	254 (Lt Grey)	Continuous		Optional
A-OCCU	Fixings to Occupations	7 (White)	Continuous		Optional
A-PRCL-AREA	Parcel Area	150 (Medium Blue)	Continuous		Optional
A-PRCL-IDNT	Parcel Identifiers	141 (Lt Blue)	Continuous		Optional
A-RMRK	Mark Description	200 (Purple)	Continuous		Optional
A-ROAD	Roads and Streets	71 (LT Green)	Continuous		Optional
A-ROAD-PRDS	Private/Public Roads	71 (LT Green)	Continuous		Optional
A-ROAD-WDTH	Road Width	8 (Grey)	Continuous		Optional
A-SERV-INFR	Service Infrastructure Identifier	3 (Green)	Continuous		Optional
A-TTLA	Total Area	140 (Lt Blue)	Continuous		Paper Space



Layer Name	LSSA Object Name	Colour	Linetypes	Block Name	Object Location
B-ARRO	Arrow	7 (White)	Continuous	* ARROW	Optional
B-BSCL	Bar Scale	7 (White)	Continuous	*BAR_SCALE_100_B *BAR_SCALE_100_H *BAR_SCALE_50_B *BAR_SCALE_50_H *BAR_SCALE_40_B *BAR_SCALE_40_H	Paper Space
B-CRNR-MARK	Corner Number	203 (Purple)	Continuous	* CRNR_MARK	Optional
B-FIRM-IDNT	Firm Identification Box	7 (White)	Continuous	* FIRM_IDNT	Paper Space
B-NRTH-POIN	North Point	7 (White)	Continuous	* NORTH_POINT	Paper Space
B-OCCU	Symbols for Common Occupation	7 (White)	Continuous	* F_CB * F_GI * F_PW * F_ON * F_BRICK * F_CB_CONC_BASE * F_GI_CONC_BASE * F_PW_CONC_BASE * POST_RD * POST_SQ * BRICK_PILLAR * WALL_CNR * WALL_L * WALL_R	Optional
B-POPS	Pops	52 (Yellow)	Continuous	* POPS	Model Space
B-POPS-EXAG	Pops	12 (Red)	Continuous	* POPS	Model Space
B-POPS-TRUE	Pops	252 (Dk Grey)	Continuous	* POPS	Model Space



Layer Name	LSSA Object Name	Colour	Linetypes	Block Name	Object Location
B-RMRK	Reference Marks	6 (Magenta)	Continuous	* PSM * PSM_GONE * SSM * SSM_GONE * TRIG * TRIG_GONE * MP * MP_GONE * PEG * TRENCH * TRENCH_WPEG * TRAVERSE_STATION * TRAVERSE_STATION_GONE	Model Space
B-RMRK-EXAG	Reference Marks Exaggerated	12 (Red)	Continuous	* PSM * PSM_GONE * SSM * SSM_GONE * TRIG * TRIG_GONE * MP * MP_GONE * PEG * TRENCH * TRENCH_WPEG * TRAVERSE_STATION * TRAVERSE_STATION_GONE	Model Space



Layer Name	LSSA Object Name	Colour	Linetypes	Block Name	Object Location
B-RMRK-TRUE	Reference Marks True	252 (DK Grey)	Continuous	* PSM * PSM_GONE * SSM * SSM_GONE * TRIG * TRIG_GONE * MP * MP_GONE * PEG * TRENCH * TRENCH_WPEG * TRAVERSE_STATION * TRAVERSE_STATION_GONE	Model Space
B-SCHD-AREA	Area Schedule	161 (Blue)	Continuous	* SCHD_AREA_ALLOT *SCHD_AREA_ALLOT_B *SCHD_AREA_ALLOT_H * SCHD_AREA_LOT *SCHD_AREA_LOT_B *SCHD_AREA_LOT_H	Paper Space
B-SCHD-CORD	Co-Ordinate Schedule	7 (White)	Continuous	*SCHD_COORDINATES *SCHD_COORDINATES_B *SCHD_COORDINATES_H	Paper Space
B-SCHD-CURV	Curve Data	7 (White)	Continuous	* SCHD_CURVE *SCHD_CURVE_B *SCHD_CURVE_H	Paper Space
B-SCHD-EASE	Easement Limitation Schedule	7 (White)	Continuous	* SCHD_EASE_LIMIT *SCHD_EASE_LIMIT_B *SCHD_EASE_LIMIT_H	Paper Space
B-SCHD-LGND	Plan diagram legend	7 (White)	Continuous	* SCHD_LGND *SCHD_LGND_B *SCHD_LGND_H * SCHD_LGND_SERVICE_INFRA	Paper Space



Layer Name	LSSA Object Name	Colour	Linetypes	Block Name	Object Location
B-SCHD-PIEC	Pieces Schedule	160 (Blue)	Continuous	*SCHD_PIECES_ALLOT *SCHD_PIECES_ALLOT_B *SCHD_PIECES_ALLOT_H *SCHD_PIECES_LOT *SCHD_PIECES_LOT_B *SCHD_PIECES_LOT_H	Paper Space
B-SCHD-RMRK	Reference Mark Schedule	6 (Magenta)	Continuous	*SCHD_REF_MARK *SCHD_REF_MARK_B *SCHD_REF_MARK_H *SCHD_REF_MARK_COMMENT *SCHD_REF_MARK_COMMENT_B *SCHD_REF_MARK_COMMENT_H	Paper Space
B-TTBL	Sheet Layout	7 (White)	Continuous	*TITLE_BLOCK_1 *TITLE_BLOCK_2	Paper Space
B-VINC	Vincula	7 (White)	Continuous	*VINC *VINC_HALF	Optional
B-VINC-HIST	Vincula - Historic	7 (White)	Continuous	*VINC_HIST *VINC_HIST_HALF	Optional
L-ABUT	Abuttals Lines	3 (Green)	Continuous		Model Space
L-ABUT-EXAG	Abuttals Lines Exaggerated	12 (Red)	Continuous		Model Space
L-ABUT-TRUE	Abuttals Lines True	252 (Dk Grey)	Continuous		Model Space
L-ADMN	Administrative Boundaries	30 (Orange)	Dash Dot		Model Space
L-ADMN-EXAG	Administrative Boundaries Exaggerated	12 (Red)	Dash Dot		Model Space
L-ADMN-TRUE	Administrative Boundaries True	252 (Dk Grey)	Dash Dot		Model Space
L-BBL	Extent of Land	150 (Blue)	Continuous		Model Space
L-BBL-EXAG	Extent of Land Exaggerated	12 (Red)	Continuous		Model Space
L-BBL-TRUE	Extent of Land True	252 (Dk Grey)	Continuous		Model Space
L-CONN	Connections	211 (Pink)	Hidden2		Model Space
L-CONN-EXAG	Connections Exaggerated	12 (Red)	Hidden2		Model Space
L-CONN-TRUE	Connections True	252 (Dk Grey)	Hidden2		Model Space



Layer Name	LSSA Object Name	Colour	Linetypes	Block Name	Object Location
L-EASE-EXTR	Easements External	1 (Red)	Continuous		Model Space
L-EASE-EXTR-EXAG	Easement Exaggerated (External)	12 (Red)	Continuous		Model Space
L-EASE-EXTR-TRUE	Easement True (External)	252 (Dk Grey)	Continuous		Model Space
L-EASE-INTR	Easements Within Parcel	1 (Red)	Hidden		Model Space
L-EASE-INTR-EXAG	Easement Exaggerated (Internal)	12 (Red)	Hidden		Model Space
L-EASE-INTR-TRUE	Easement True (Internal)	252 (Dk Grey)	Hidden		Model Space
L-HIST	Background Information - Presentation	143 (Blue)	Dot2		Model Space
L-HIST-EXAG	Background Information – Presentation Exaggerated	12 (Red)	Dot2		Model Space
L-HIST-TRUE	Background Information – Presentation True	252 (Dk Grey)	Dot2		Model Space
L-NOTE	Non plotted layer for linework	254 (Lt Grey)	Continuous		Optional
L-OCCU	Line layer for Occupation	7 (White)	Continuous		Optional
L-PRCL	Whole Parcels	141 (Blue)	Continuous		Model Space
L-PRCL-EXAG	Whole Parcels Exaggerated	12 (Red)	Continuous		Model Space
L-PRCL-TRUE	Whole Parcels True	252 (Dk Grey)	Continuous		Model Space
L-SERV-INFR	Service Infrastructure	3 (Green)	DashDot2		Model Space
L-TIEL	Tie-lines	241 (Pink)	Hidden2		Model Space
L-TIEL-EXAG	Tie-lines Exaggerated	12 (Red)	Hidden2		Model Space
L-TIEL-TRUE	Tie-lines True	252 (Dk Grey)	Hidden2		Model Space
L-VIEW-PORT	View Port	222 (Purple)	Continuous		Paper Space
L-WIPE-OUT	Wipe Out	255,255,255 (White)	Continuous		Paper Space



Appendix B – Layer Naming Structure

The LSSA layering standard provides a logical grouping and naming structure for each type of CAD object submitted in a survey plan. Each type of object has been allocated an individual layer name using a two to four-part structure. e.g. A-PRCL-IDNT for a parcel identifier.

- Part 1 – This group is a single-character field that defines the feature type.
- Part 2 – This group is a four-character field that defines the major group e.g. DIST = Distance, EASE = easement.
- Part 3 and 4 – These groups are additional four-character fields that further define the feature type if required e.g. IDNT= Identifier.

Part 1

Code	Description
A	Annotation
B	Block
L	Line

Parts 2 - 4

Code	Description
ABUT	Abuttals
ADMN	Administrative
AREA	Area
ARRO	Arrows
BBL	Bold Black Line
BRNG	Bearings
BSCL	Bar Scale
CHNG	Running Chainages
CALC	Calculated
CSF	Combined Scale Factor
CONN	Connections
CONT	Continuations
CORD	Co-Ordinates
COPD	Copied
CRNR	Corner
CURV	Curve Data
DATM	Datum
DIST	Distances
DSF	Drawing Scale Factor
EASE	Easement
ENLG	Enlargement
EXAG	Exaggerated
EXTR	External
FIRM	Firm Identification Box
GNRL	General Labels
HIST	Historic
IDNT	Identifier

Code	Description
INFR	Service Infrastructure
INTR	Internal
LGND	Plan diagram legend
MARK	Marks
NOTE	Notes
NRTH	North Point
OCCU	Occupations
OUT	Wipe Out
PIEC	Pieces
POIN	Point
POPS	Pops
PORT	View Port
PRCL	Parcel
ROAD	Roads
PRDS	Private and Public Roads
RMRK	Reference Marks
SCHD	Schedule / Table
SERV	Service
TIEL	Tie Lines
TRUE	True
TTLA	Total Area
TTBL	Title Block / Sheet Layout
VIEW	View Port
VINC	Vincula
WDTH	Width
WIPE	Wipeout

