



# Drawing Services – 08A - Serviced Land Availability Plan (SLAP) Procedure

## Corporate Procedure

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### 1 Purpose

- 1.1 This procedure is to be used for recording existing physical assets in Major Communities

### 2 Scope

- 2.1 PWC provide for the recording of asset data within Major communities. This asset data consists of the following engineering services, water reticulation, sewerage and electrical. This data is represented in a format compatible with other NTG SLAP data.
- 2.2 The asset plan is a composite plan for each community, storing the services data in Bentley Systems Microstation DGN format. This data is stored upon various servers throughout PWC and NTG offices.
- 2.3 Other department’s data is used as “reference” to the PWC asset files when creating or updating the SLAP file.

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### 3 References

- 3.1 Associated Drawing Services Work Instructions

### 4 Roles and Responsibilities

Role / Title	Responsibility
Technical Specialist	<ul style="list-style-type: none"> <li>What are they responsible for in the process the procedure covers. Be specific.</li> </ul>
FIS/SLAP Client Services Officer	
Services Development Officer	
GIS Officer	
DBYD Technical Officer	

### 5 Definitions

Where terms or words are not included in the definitions section, refer to Power and Water's Glossary for clarification. The glossary is available on Power and Water's intranet.

### 6 Records

- 6.1 How any information developed from this procedure is handled.

### 7 Attachments

- 7.1 Any Forms or Tables needed to perform the function/s covered by the procedure.

### 8 Naming Conventions

- 8.1 Asset plans have the following naming conventions:
- 8.2 All Asset plans are to be named after the communities' Gazetted name with a PAW extension. Eg: Port Keats/Wadeye utility plan would be a MicroStation DGN file with the following title WADEYE.PAW.
- 8.3 It is possible that community asset plans may upon time to time be renamed as the communities are undergoing gazetted name changes from the "Alternative name" to the Aboriginal name. Eg: Daly River asset data plan was DALYRV.PAW and is now reflective of the aboriginal name Nauiyu. Therefore this community is now titled NAUIYU.PAW.
- 8.4 Plans are drawn at 1:1 and scales for plotting are to be 1:500, 1:1000 or 1:2500. No other scales will be permitted. The scale must match the other NTG department's scales for each community and is usually set by the Department of Infrastructure Planning and Environment.

- 8.5 The PWC Drawing Services Manager is to be contacted when creating a NEW Asset plan and consulted on the required plot scale.

## 9 The DGN File

- 9.1 The Microstation DGN file is to be a 3D DGN file with the following settings. The 3D DGN file applies to all files that have a 3D TOPO reference file. (New mapping to GDA94 standards). The old PAW files are to stay as 2D DGN files until the community has new mapping to GDA 94 standards.

### Global Origins

XY=0,0

### Working Units

Master units (M), Subunits of (CM) and there are 100 Subunits to one Master unit.

### Co-ordinates Readout

Format - Master Units

Accuracy - 0.12

### Angle Readout

Format – DD MM SS

Accuracy – 0.1234

If the file is a 3D file

AZ=0 (Active depth Height)

The Depth Lock is to be “locked” ON after the AZ height has been set to Zero (0).

## 10 Reference Files

The new .paw SLAP file is to have the DIPE SLAP plan and perhaps the Topographical plan as reference. The SLAP and Topographical plan is titled along similar lines as the asset plan.

Eg: The Belyuen community plans are titled:

Belyuen.PAW (Utility Plan)

Belyuen.LAN (SLAP Plan)

Belyuen.TOP (Topographical Plan)

**Note:** The reference files are to have the following levels switched ON as per the table below. TO BE ADVISED All other levels are to be switched OFF when saving the utility plan.

**Note:** It is essential the corrected information appears when a “Saved View” is recalled.

## 11 Levels & Symbology

The following MicroStation levels have been allocated for use in the .paw file. These levels are also used when creating the SAVED Views for each services in the .paw file.

The table below outlines the symbology required for the .paw file/plan.

LEVEL	LINestyle	WEIGHT	COLOUR	DESCRIPTION
1	0	Various	0	AO Drawing Sheet
6	Various	Various	0	A3 Title blocks & Frames.
29	Various	Various	Various	Water Legend Cell
30	Water Main ----W-----	1	1	Water Main
30	Water Rising ----WW-----	1	17	Rising Water Main
30	Abandoned -----x-----	1	2	Abandoned Water Mains and Water assets
30	Control cable -----C-----	1	11	Control Cable
30	4	1	2	Possible Water Main
31	0	1	1 and 17	Water Plant Cells
33	Various	Various	Various	Water Inserts & Details
34	0	1	0	Text Related to the Water Layer. Pipes sizes Amendments, Titles etc.
35	Sewer Main -----S-----	1	6	Sewer Main
35	Sewer Rising -----SS-----	1	22	Rising Sewer Main

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LEVEL	LINESTYLE	WEIGHT	COLOUR	DESCRIPTION
36	0	1	6 or 22	Sewer Plant Cells
38	Various	Various	Various	Sewer Inserts and Details
39	0	1	6	Sewer Text, Pipes sizes Amendments, Titles etc
39	0	1	22	Manhole & Pump Station Numbers.
40	Various	Various	Various	Sewerage Legend.
45	0	3	9	Transmission Conductors
45	0	2	0	Power lines High Voltage Conductors  3.3kV,11kV & 22kV
45	0	1	2	Power lines Low Voltage Conductors
45	----ABC----	1	2	Power lines Low Voltage Bundled Conductor
45	Service  -----Z-----	1	5	Service and Streetlight Conductors
45	2	2	0	Power lines High Voltage Cable 3.3,11 & kV
45	Aerial Earth  -----AE-----	1	16	Aerial Earth.
45	2	1	2	Power lines Low Voltage Cable
45	2	1	5	Service and Streetlight Cables
46	0	1	Various	Power Plant HV, LV, Service and Streetlight cells
47	0	1	0	Electrical Text, ABS, Notes, Sub Station & Amendments etc.
48	Various	Various	Various	Power Inserts and Details
49	0	1	3	Power Pole Numbers
50	Various	Various	Various	Electricity Legend.
58	0	1	11	Land Use.
59	0	1	5	Lot Numbers

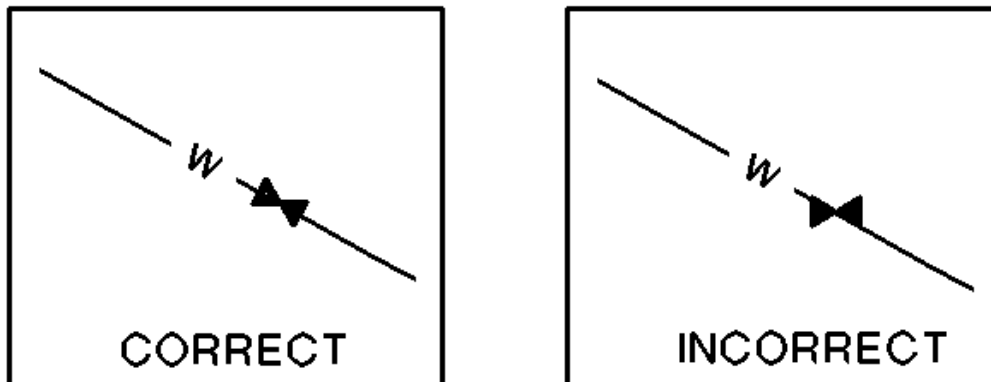
## 12 Notes for Electrical

- 12.1 To match as best as possible to PAWA FIS standards the Electrical cells and symbols have been created using the following colours.

Transmission-	33kV to be in Colour 9.
High Voltage-	11kV to be in Colour 4, 22kV to be in Colour 3 3.3kV to be in Colour 1. (use 11kV symbols )
Low Voltage-	to be in Colour 2.

## 13 Cells

- 13.1 Symbols are represented in the .paw file as MicroStation Cells. The Cell library that is to be used when placing symbols is titled PAWSLAP.CEL. This library is available from the Drawing Services Manager. No other symbols are permitted. Should you require a change or an addition to a symbol please contact the Drawing Services Manager.
- 13.2 When placing Cells they are to be orientated either north (up the sheet) or about the service it relates to.



Eg. A Valve cell is to be orientated in the correct orientation that it is in the field, usually at the same angle as the pipe. See the diagram above. Cells are to be placed at one of the following scales in the utility file.

- Utility files at 1:2500 AS=1 (Cell text to be edited to suit drawing scale ie: manhole text size to be 6.25 height)
  - Utility files at 1:1000 AS=1
- 13.3 Cells are not to be broken up or "Dropped" ie: a Cell and not graphical elements must represent the Symbol unless the cell obstructs the service line, in this case they can be dropped.
- 13.4 A Cell also represents the Legends for each service in the .paw file. Legends for each service are to be placed on the RHS of the Drawing Sheet. All Legends are to be aligned uniformly.

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- 13.5 Note: As noted in "Notes for Electrical" section above, use 11kV cells when placing 11kV or 3.3kV High voltage symbols.

### 14 Text

- 14.1 Text is at the discretion of the drafting officer however the following requirements have been set.
- 14.2 All text is to be in Capitals unless representing conventional signs and symbols normally requiring such characters . Kg. Nm etc.
- Standard Text                      Font 1.
  - Lot Number Text                      Font 3 (italic) slope 20 degrees.

DESCRIPTION TEXT	1:2500	1:1000	
Common Text	TH=6.25, TW=4.5	TH=2.5, TW=1.78	<b>2.5mm</b>
Feature Names	TH=12.5, TW=8.75	TH=5, TW=3.5	<b>5mm</b>
Water Plant Text	TH=6.25, TW=4.5	TH=2.5, TW=1.78	<b>2.5mm</b>
Sewer plant Text			
Power Pole No's			
Headings Text	TH=18.75, TW=12.5	TH=7.5 TW=5	<b>7.5mm</b>
Lot Numbers	TH=8.75, TW=6.25 TH=6.25, TW=4.5	TH=3.5, TW=2.5	<b>3.5mm</b>  <b>2.5mm</b>
Electrical Plant	TH=8.75, TW=6.25	TH=3.5, TW=2.5	<b>3.5mm</b>
SubStn, Airbreak No's	TH=12.5 TW=8.75	TH=5 TW=3.5	<b>5mm</b>

### 15 Linestyles or Linecodes

When placing services linestyles are to be used. The following linestyle library is to be used in amending or creating Utility plans: Linestyle Library      LPELSTY1.RSC

- When plans are plotted at 1:1000 scale, the scale factor for the linestyle library is 1.
- When plans are plotted at 1:2500 scale, the scale factor for the linestyle library is 2.5

These scale factors will allow the linestyles to be readable when the Utility file is plotted at scale.

After placing a linestyle within the PAW file, the linestyle is to be "dropped" using the MicroStation DROP LINSTYLE TOOL. This allows PWC staff and clients who do not have the linestyle library to view the "patterned" line.