

APPENDIX J MASTER PLANNING CAD STANDARDS

J.1	Introduction	1
J.2	Drawing Settings	1
J.3	Hatching	1
J.4	Levels (Layers)	2
	Table J-1 Master Planning Major Data Groups	2
	Table J-2 Master Planning Layers and Symbology	3

J.1 INTRODUCTION

Background information such as facility drawings, cadastre, and contours shall be referenced to the data. This data shall be located in sub-directories and referenced using relative paths.

Title blocks and legends shall be stored within the Sheet Model.

J.2 DRAWING SETTINGS

All drawing units shall be in metres.

Units shall be in decimal format to four (4) decimal places.

Angles shall be in degrees, minutes and seconds with angle accuracy set to 2 decimal places.

All drawings shall be created at a scale of 1:1.

Dimensions and text shall be scaled appropriately according to the expected plotting scale.

All data shall be in the default model. Title blocks, notes and legends shall be in the sheet model.

In Default Mode, data should be orientated “View Top” and not rotated. The model may be rotated in Sheet Mode, however a North point must be shown.

Text Styles shall be common True Type fonts. Arial, Courier New, and Century Gothic are examples of suitable fonts.

Level / Colour / Linetype & Lineweight shall be set to Bylevel.

J.3 HATCHING

All hatching to be bounded by a closed polygon in the same layer as the hatch pattern.

Opaque fill (solid hatch) to be bounded by a closed polygon in the same layer as the fill.

J.4 LEVELS (LAYERS)

The layering structure has been developed from Australian and International standard layering structures. The Master Planning layers and symbology are detailed in **Table J-2**.

Every layer shall have a colour and linetype set, with the exception of the default level which remains as white and with a linetype of continuous.

The basic layer naming structure is xx_yyyyyy where “xx” is the major data group (2 characters), and “yyyyyy” is the description (maximum 21 characters).

The major data group is a two (2) character field which categorises the data into groups (**Table J-1**).

Table J-1 Master Planning Major Data Groups

Code	Description	Code	Description
SZ	Standard Zones	PS	Precincts
MP	Miscellaneous Master Planning	NC	ANEF Noise Contours
HR	DACR Height Restrictions	BS	Bird Strike Levels
XL	Extraneous Lighting		





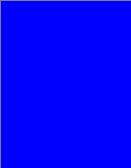

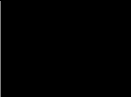
Additions to the Major Data Groups may be made only with the permission of the National Technical Authority (SPED) or through the designated contact within the Estate Planning Branch, External Land Planning Directorate.

New layer names may be used but these must be reported in the Consultant’s report.

Layer names shall consist of letters, numbers and underscores (_) only.

Table J-2 Master Planning Layers and Symbology

Layer	Description	Layer No	Colour	R, G, B	Style	Weight	Symbology
SZ	Standard Zones						
SZ_OPERATIONAL	Operational Zone	1		237,187,200	0	0	Shape / Opaque Fill
SZ_OPERATIONAL_SUPPORT	Operational Support Zone	2		255,215,90	0	0	Shape / Opaque Fill
SZ_BASE_SUPPORT	Base Support Zone	3		222,212,250	0	0	Shape / Opaque Fill
SZ_DOMESTIC	Domestic Zone	4		255,255,190	0	0	Shape / Opaque Fill
SZ_OPEN_SPACE	Open Space Zone	5		196,242,214	0	0	Shape / Opaque Fill
SZ_FUTURE_DEVELOPMENT	Future Development Zone	6		199,255,255	0	0	Shape / Opaque Fill
PS	Precincts						
PS_SECURITY_HIGH	Security Precinct High	8		191,6,136	0	1	Shape with a band of hatch
PS_SECURITY_MEDIUM	Security Precinct Medium	7		191,6,136	dash	1	Shape with a band of hatch

Layer	Description	Layer No	Colour	R, G, B	Style	Weight	Symbology
PS_SECURITY_LOW	Security Precinct Low	9		191,6,136	dot	1	Shape with a band of hatch
PS_HERITAGE	Heritage Precincts	10		255,127,48	0	3	Shape with a band of hatch
PS_SAFETY_CONSTRAINED	Safety Constrained (Arc/Buffer, etc.)	12		93,124,176	2	3	Shape with a band of hatch
PS_ENV_CONSERVATION	Environmental Conservation	13		57,194,131	2	3	Shape with a band of hatch
							NOTE: The width of the band will vary according to the output scale of the drawings.
MP	Miscellaneous Master Planning						
MP_MAJOR_NODES	Major Nodes; common facilities eg. messing, recreation and administration points or locations	14		0,0,255	0	0	Circle 27.5 Radius / Opaque Fill
MP_MINOR_NODES	Minor Nodes points or locations	15		0,0,255	0	0	Circle 27.5 Radius / Opaque Fill
MP_GATE_ACCESS	Gate Access Point	16		0,0,0	0		Text Node Textstyle "Background" True Type Font "Arial"
NC	ANEF Noise Contours						

Layer	Description	Layer No	Colour	R, G, B	Style	Weight	Symbology
NC_CONTOUR_20	Noise Contour - ANEF Value 20	46		153,204,255	dash	8	Shape
NC_CONTOUR_25	Noise Contour - ANEF Value 25	45		0,0,255	0	3	Shape
NC_CONTOUR_30	Noise Contour - ANEF Value 30	18		0,0,255	0	3	Shape
NC_CONTOUR_35	Noise Contour - ANEF Value 35	27		0,0,255	0	3	Shape
NC_CONTOUR_40	Noise Contour - ANEF Value 40	28		0,0,255	0	3	Shape
NC_TEXT	Noise Contour Values & Notes	29		0,0,255	0	0	Textstyle "STANDARD" True Type Font "Century Gothic"
HR	DACR Height Restrictions						
HR_ALL_HATCHING	All structures within these areas require approval	40		70,96,185	0	0	Shape / Cross hatch Spacing 1.25 Angle 0°
HR_7_5_HATCHING	All Structures over 7.5 m require approval	41		70,96,185	0	0	Shape / Hatch Spacing 1.25 Angle 135°

Layer	Description	Layer No	Colour	R, G, B	Style	Weight	Symbology
HR_15_HATCHING	All Structures over 15 m require approval	42		70,96,185	0	0	Shape / Hatch Spacing 1.25 Angle 45°
HR_45_HATCHING	All Structures over 45 m require approval	43		70,96,185	0	0	Shape / Hatch Spacing 1.25 Angle 0°
HR_90_HATCHING	All Structures over 90 m require approval	44		70,96,185	0	0	Shape / Cross hatch Spacing 1.25 Angle 45°
HR_TEXT	Height Restrictions Text / Notes / Legend	47			0	0	Textstyle "STANDARD" True Type Font "Century Gothic"
							NOTE: Spacing of 1.25 is indicative only and will vary according to the output scale of the drawings.
BS	Bird Strike Levels						
BS_GROUP_A	>13 km	65		128,128,0 253,247,199	0	3	Shape / Opaque Fill
BS_GROUP_B	>8 km	67		128,128,0 219,219,119	0	3	Shape / Opaque Fill

Layer	Description	Layer No	Colour	R, G, B	Style	Weight	Symbology
BS_GROUP_C	>3 km	68		128,128,0 178,162,68	0	3	Shape / Opaque Fill
XL	Extraneous Lighting (CASA / DOD)						
XL_CASA_LIGHTS_A	Zone 'A' -0cd (Maximum intensity of Light Source measured at 3^ above the horizontal.)	25		153,16,5 204,111,60	0	1	Shape / Opaque Fill
XL_CASA_LIGHTS_B	Zone 'B' - 50cd (Maximum intensity of Light Source measured at 3^ above the horizontal.)	22		153,16,5 227,164,125	0	1	Shape / Opaque Fill
XL_CASA_LIGHTS_C	Zone 'C' - 150cd (Maximum intensity of Light Source measured at 3^ above the horizontal.)	24		153,16,5 255,213,171	0	1	Shape / Opaque Fill

Layer	Description	Layer No	Colour	R, G, B	Style	Weight	Symbology
XL_CASA_LIGHTS_D	Zone 'D' - 450cd (Maximum intensity of Light Source measured at 3^ above the horizontal.)	26		153,16,5 255,238,221	0	1	Shape / Opaque Fill
XL_DOD_NIL	No Light above the horizontal is permitted	36		107,245,192 217,255,217	0	2	Shape / Opaque Fill
XL_DOD_RESTRICTED	Restrictions on the amount of upward light permitted.	37		107,245,192 247,255,247	0	1	Shape / Opaque Fill