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**Landscape Architecture Report  
for  
Section 96  
Stage 1, AMP Warringah Mall, Brookvale NSW**

**for  
Westfield Design & Construction Pty Ltd**

**Issue F  
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## issue register

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19 Nov 2008	Preliminary Issue A	A Beeston	C M <sup>c</sup> Lay	
03 Dec 2008	Preliminary Issue B	A Beeston	C M <sup>c</sup> Lay	
09 Dec 2008	Da Issue C	A Beeston	A Beeston	<i>A Beeston</i>
13 Aug 2009	Da Issue D	A Beeston	A Beeston	<i>A Beeston</i>
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## 1 Landscape Design Philosophy

### 1.1 Aim

The landscape design has been prepared to address the environmental and community requirements of the site. This is achieved by providing a mixed plant palette of indigenous trees, mixed shrubs and low maintenance groundcovers to fragment the new carpark building to the surrounding light industrial areas. Species have been selected that are suitable for planting in the Warringah Council area. The landscape design has been successful in the overall brief to compliment the architectural facade of the proposed carpark.

### 1.2 Cross Street – Palm Tree Carpark

Cross Street has an existing character of light industrial. The existing landscape is a mix of street trees plantings in grass verges. The landscape design aims to compliment the proposed carpark, by framing the designed architectural facade and signage to the corner of Cross Street and Green Street. Further to the west the landscape design will screen the lower levels completely with the use of the Green Facade along the vehicular ramp.

A mix of decorative native shrubs and groundcovers are proposed at ground level to the eastern end of Cross Street to enhance the pedestrian's experience in front of the carpark.

To the western end of Cross Street a Green Facade is proposed from ground level staggered up to approximately 7 metres along the facade of the proposed Carpark. Stainless steel structural Wire mesh is proposed and fixed as a structural element to the carpark facade. Climbing species of plants for example Pandorea species, Trachelospermum species, Hibbertia scandens and Hardenbergia violacea have been selected based on their potential growth height, growth rate and reliability. All have a medium to fast growth rate and should provide good coverage of the facade within the first few years. The plants will be planted within an on-grade garden bed, in a mix of imported and site soils. The area as with the rest of the soft landscaping will be watered by an automated dripper irrigation system. The landscape maintenance and selection of climber grown plants will be important in the first year to maximise this growth. Landscape maintenance will be ongoing to maintain the appearance of the facade in the future.

All existing trees within the proposed carpark envelope including trees 57 and 58 will be removed. Trees located over or near the proposed stormwater culvert will also be removed which includes trees 48, 49, 50, 51, 52 & 55. Where trees are not impacted by the development they will be retained and protected. Refer to the Arborist's report for tree details.

### 1.3 Green Street - Palm Tree Carpark

Green Street provides an access to Warringah Mall and other commercial areas to the North East of the site. The landscape planting to the eastern side of the carpark will soften and screen the building. This will be achieved by providing a mixed plant palette of indigenous trees, transplanted palms, shrubs and groundcovers. The depth of planting media where trees are shown will be mounded to provide extra soil depth of approx 1000mm over the culvert. The majority of this planting will be over the culvert and therefore is more an on-slab planting area. A mix of smaller 10 metre or less trees will be used within this area. The 1000mm depth of planting media should be adequate for these smaller trees to grow satisfactorily. The existing palms currently located at the corner of Cross St and Green St will be transplanted to the the soil mounding on Green Street.



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Shrub and low maintenance groundcover planting will provide a decorative understorey for pedestrians. Species have been selected from Duffy's Forest Ecological Community, Sydney Turpentine Ironbark Forest, Blue Gum High Forest and Warringah Council Basix List.

#### **1.4 Starfish Carpark**

The layout of the access road from Old Pittwater Road to the Starfish Carpark has been modified. A new ramp to the upper level and a rearrangement of existing roads will involve the removal of some existing trees. Existing trees highlighted for removed are: 1, 16, 17, 26, 27, 27a, 28, 29, 30, 31 and 32. Refer to the Arborist Report for additional information.

The landscape design aims to revitalise the degraded garden beds below retained existing trees with decorative low water tolerant, native plantings. New garden beds will be planted with small to medium sized trees and native shrubs and groundcovers. Shade tolerant plants are proposed beneath the proposed ramp. An automated dripper irrigation system is proposed for the garden beds.

#### **1.5 ESD Principles**

The proposed indicative plant schedule for the site is shown on the landscape plan. Principles of ESD have been incorporated into the design including plant selection with low maintenance and low water demand will be used for proposed planting. An automated dripper irrigation system will be use with rain sensors to manage irrigation.

Species have been selected that are suitable for planting in the Warringah City Council Area.



## 1.6 Plant List

Botanic Name	Common Name	Height	Spread	Community
<b>TREES</b>				
<i>Acmena smithii</i>	Lilly Pilly	10m	6m	BGHF
<i>Angophora costata</i>	Sydney Red Gum	20m	12m	DFEC
<i>Banksia integrifolia</i>	Coastal Banksia	14m	8m	
<i>Banksia serrata</i>	Old Man Banksia	6m	3m	DFEC
<i>Elaeocarpus reticulatus</i>	Blueberry Ash	6m	3m	BGHF
<i>Eucalyptus punctata</i>	Grey Gum	20m	12m	STIF
<i>Eucalyptus robusta</i>	Swamp Mahogany	10-20m	4-8m	
<i>Lophostemon confertus</i>	Brush Box	15m	10m	
<i>Syncarpia glomulifera</i>	Turpentine	18m	8m	STIF
<i>Tristaniopsis laurina</i> 'Luscious'	Luscious Water Gum	6m	5m	
<b>SHRUBS</b>				
<i>Banksia ericifolia</i>	Heath Banksia	2m	2m	BASIX
<i>Banksia spinulosa</i>	Hairpin Banksia	1.5m	1.5m	DFEC
<i>Correa alba</i>	White Correa	1.5m	1m	BASIX
<i>Callistemon</i> 'Captain Cook'	Captain Cook	1.2m	1m	
<i>Doryanthes excelsa</i>	Gynea Lily	1.5m	1.5m	
<i>Grevillea linearifolia</i>	Linear Leaf Grevillea	2m	2m	
<i>Grevillea sericea</i>	Pink Spider Flower	1.5m	1m	
<i>Grevillea speciosa</i>	Red Spider Flower	1.5m	1.5m	
<i>Lambertia formosa</i>	Mountain Devil	1.5m	1.5m	
<i>Leptospermum</i> 'Pacific Beauty'	Pacific Beauty	2m	1.5m	
<i>Syzygium</i> 'Aussie Southern'	Dwarf Lilly Pilly	2.5m	2m	
<i>Westringia fruticosa</i>	Coastal Rosemary	2m	5m	
<i>Westringia fruticosa</i> 'Smokey'	Dwarf Westringia	0.8m	0.8m	
<b>GROUNDCOVERS/CLIMBERS &amp; SHADE TOLERANT PLANTS</b>				
<i>Asplenium australe</i>	Birds Nest Fern	1m	1m	
<i>Carex appressa</i>	Tall Sedge	0.8m	0.6m	
<i>Dianella caerulea</i> 'Breeze'	Dianella Breeze	0.5m	0.5m	DFEC
<i>Dianella caerulea</i> 'Cassa Blue'	Cassa Blue	0.4m	0.4m	DFEC
<i>Dianella caerulea</i> 'Little Jess'	Little Jess	0.4m	0.4m	DFEC
<i>Dianella</i> 'Silver Streak'	Flax Lily	0.5m	0.4m	
<i>Doodia aspera</i>	Prickly Rasp Fern	0.3m	0.3m	
<i>Grevillea</i> 'Bronze Rambler'	Grevillea Bronze Rambler	0.3m	1.5m	
<i>Hardenbergia</i> 'Mini Ha-Ha'	Purple Coral Pea	0.3m	1.5m	STIF
<i>Hibbertia scandens</i>	Golden Guinea Vine	Climber		
<i>Isolepis nodosa</i>	Knobby Club Rush	0.8m	0.6m	
<i>Lomandra longifolia</i>	Lomandra	0.8m	1m	BGHF
<i>Lomandra longifolia</i> 'Tanika'	Tanika	0.4m	0.4m	BGHF
<i>Pandorea jasminoides</i>	Bower of Beauty	Climber		
<i>Pandorea pandorana</i>	Wonga Wonga Vine	Climber		



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Pennisetum alopecuroides 'Nafray'	Nafray	0.6m	0.6m	
Poa labillardieri 'Eskdale'	Poa Eskdale	0.4m	0.4m	
Trachelospermum jasminoides	Star Jasmine	0.4m	1.5m	

DFEC

STIF

BGHF

BASIX

DUFFY'S FOREST ECOLOGICAL  
COMMUNITY  
SYDNEY TURPENTINE IRONBARK  
FOREST  
BLUE GUM HIGH FOREST  
WARRINGAH COUNCIL BASIX  
LIST