

6.5 OTHER STRUCTURES, ELEMENTS & TREATMENTS

OTHER URBAN DESIGN ELEMENTS

Roadside elements are ancillary items necessary for the effective operation of the roadway. These typically include roadside safety barriers, kerbs, lighting and water quality structures such as basins and channels. The urban design recommendations presented in Table 6.1 are provided for these roadside elements and street furniture as they can contribute positively to the character of both the roadway and the local landscape. These recommendations would be refined further during detailed design and will inform the urban design and landscape plan for the project.

Table 6.1: SUMMARY OF URBAN DESIGN RECOMMENDATIONS FOR ROADSIDE ELEMENTS AND STREET FURNITURE.

ELEMENT	LOCATION	RECOMMENDATION	RATIONALE
RETAINING WALLS	Windsor Wharf Reserve	Retaining walls constructed with precast concrete panels with grey concrete and dark grey exposed aggregate. A precast concrete capping unit should be used at the top of the wall. Consideration should be given to terracing the wall in two or more steps to avoid the need for railings at the top of the wall.	<div><div></div>The recessive colour would allow for the visual character of the adjoining foreshore planting to dominate. This would also help to make the wall visually recede when viewed from a distance.</div> <div><div></div>The integral finish to the concrete panels would be practical for construction and reduce long term maintenance requirements.</div>

6.6 PLANTING

PLANTING DESIGN

The general approach to the planting design for this project is to integrate the new works into the existing landscape setting and to further define and reinforce the unique landscape character zones. This approach aims to enhance the unique sense of arrival to Windsor both from the north and south while also strengthening the landscape character of historic Thompson Square. In order to do this the planting must strike a balance between screening the works from sensitive visual receptors and maintaining and enhancing key views and vistas to the surrounding landscape.

PLANTING DESIGN PRINCIPLES

The planting concept has been guided by the following design principles:

- Revegetation of all areas affected by the new works.
- Revegetation of residual land affected by the works that is not viable for amalgamation.
- Provision of planting at outside verges wherever possible to minimise the visual scale of the roadway.
- Provision of planting on fill embankments and shallow cut batters to stabilise the earthworks, minimise their visual impact and integrate them with the character of the surrounding landscape.
- Provision of planting to screen the works from sensitive adjacent land uses where applicable.
- Provision of 'gateway' planting at key intersections and important cultural areas to provide visual landmarks and enhance local identity.
- Use of provenance plant material (plants grown from locally collected seeds) wherever possible for all native plantings, in particular native revegetation.

At the detailed planting design stage, which would include further refinement of the plant species selection, particular consideration should be made for ongoing maintenance requirements.

Principles include:

- Selection of plant species that are robust, non-invasive and not fire-promoting.
- Use of local provenance plant material for native revegetation plantings, particularly in riparian areas.
- Use of species climatically suited to the local area for cultural plantings.
- Exclusion of all species on weed lists applicable to the local area.
- Placement and species selection for planting within the road corridor (e.g verges) to be in accordance with clear zone and sight stopping distance requirements.

INDICATIVE PLANTING PALETTE

An indicative planting palette has been developed for the planting concept, which provides the framework for detailed species selection and planting design during the detailed design phase. The final selection of plant species would be undertaken in consultation with Council, the local community and key stakeholders.

The indicative planting palette has been divided into the three distinct character zones as presented here in table 6.2. A selection of images for the key tree species proposed is also presented on the following page.

Table 6.2: INDICATIVE PLANT SPECIES LIST

BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	THOMPSON SQUARE	RIVER FORESHORE	NORTHERN INTERSECTION
LARGE TREES - PARKLAND						
<i>Agathis robusta</i>	Kauri Pine	30m	12m	●		●
<i>Araucaria cunninghamii</i>	Hoop Pine	30m	10m	●		●
<i>Casuarina cunninghamiana</i>	River She Oak	20m	8m		●	
<i>Casuarina glauca</i>	She Oak	18m	8m		●	●
<i>Corymbia maculata</i>	Spotted Gum	25m	12m			●
<i>Eucalyptus species</i>	Eucalyptus species	25m	12m		●	●
<i>Ginkgo biloba</i>	Maidenhair Tree	18m	10m	●		
<i>Liquidamber styraciflua</i>	Liquidamber	25m	12m	●		
<i>Melaleuca quinquenervia</i>	Paperbark	20m	8m		●	
<i>Quercus palustris</i>	Pin Oak	25m	10m	●		●
MEDIUM SIZE TREES - PARKLAND EDGES AND STREETS						
<i>Brachychiton populneus</i>	Kurrajong	12m	8m	●		●
<i>Jacaranda mimosifolia</i>	Jacaranda	15m	8m	●		
<i>Melia azedarach</i>	White Cedar	12m	8m	●		●
<i>Schinus molle var. areria</i>	Peppercorn	12m	8m	●		
<i>Ulmus parvifolia</i>	Chinese Elm	9m	7m	●		
SHRUBS - GARDEN BED PLANTING & REVEGETATION						
<i>Acacia floribunda</i>	White Sally Wattle	4m	2m		●	
<i>Baeckea virgata 'dwarf'</i>	Twiggy Heath Myrtle	1m	1m	●		●
<i>Banksia ericifolia</i>	Heath Banksia	3-5m	2.5m			●
<i>Banksia spinulosa</i>	Hairpin Banksia	2-4m	2.5m			●
<i>Callistemon spp.</i>	Bottle Brush	1-4m	1.5m	●	●	●
<i>Gahnia sieberiana</i>	Saw Sedge	1.2m	1.5m		●	
<i>Leptospermum spp.</i>	Tea Tree	2-4m	2m	●	●	●
<i>Melaleuca thymifolia</i>	Thyme Honey-myrtle	1m	1m	●		●
<i>Westringia fruticosa</i>	Coast Rosemary	2m	2m	●		●
GROUNDCOVERS - GARDEN BED PLANTING & REVEGETATION						
<i>Brachycome multifida</i>	Cut Leaf Daisy	0.2m	0.5m	●		
<i>Baumea articulata</i>	Jointed Twig Rush	2m	1m		●	
<i>Dianella 'Little Jess'</i>	Flax Lily	0.2m	0.5m	●		●
<i>Ficinia nodosa</i>	Clubrush	0.4m	0.5m		●	●
<i>Hardenbergia violacea</i>	Native sarsaparilla	0.3m	0.5m	●		●
<i>Juncus species</i>	Common Rush	1m	1m		●	
<i>Juniperus horizontalis</i>	Creeping Juniper	0.3m	1m	●		
<i>Liriope muscari</i>	Lily Turf	0.6m	0.4m	●		
<i>Lomandra longifolia</i>	Mat Rush	1m	1m		●	●
<i>Lomandra 'Tanika'</i>	Tanika Mat Rush	0.3m	0.5m	●		●
<i>Myoporum parvifolium 'Yareena'</i>	Creeping boobialla	0.1m	1m	●		●
<i>Viola hederacea</i>	Native Violet	0.2m	1m	●		



Table 6.3: INDICATIVE TREE SPECIES.

PARKLAND FEATURE / KEY SIGNATURE TREE SPECIES



*Araucaria cunninghamii* (Hoop Pine)



*Quercus palustris* (Pin Oak)



*Liquidambar styraciflua* (Liquidambar)



*Agathis robusta* (Kauri Pine)



*Ginkgo biloba* (Ginkgo)

MEDIUM SIZED TREE SPECIES



*Melia azedarach* (White Cedar)



*Jacaranda mimosifolia* (Jacaranda)



*Schinus molle* var. *Areria* (Peppercorn)



*Brachychiton populneus* (Kurrajong)



*Ulmus parvifolia* (Chinese Elm)

RIVERINE TREE SPECIES



*Melaleuca quinquenervia* (Paperbark)



*Casuarina* spp. (Swamp Oak)



*Corymbia maculata* (Spotted Gum)



*Eucalyptus crebra* (Narrow Leafed Ironbark)



*Syncarpia glomulifera* (Turpentine)