

AMENDMENTS TO EXISTING LANDSCAPE DA PLANS

The following plans (SMC-0021 DA 1 - DA 6) are submitted to Council as an amendment to the existing landscape plans submitted on behalf of Landcom (by JMD Design) in February 2012 (drawings LA01 - LA06). These plans should be read in conjunction with those plans previously submitted.

Amendments are being sought to change the proposed street tree species on Goldsmith Avenue and along selected streets within the Stage 1 Residential Subdivision. The changes are being made to address the following:

Goldsmith Avenue

- To create a distinct and attractive gateway that provides a sense of aspiration to the local Campbelltown community.
- To provide contrast with the extensive and widespread surrounding native vegetation (both existing and proposed)
- To reinforce the university as a major regional and international destination by giving it a distinct character and appearance
- To address issues of procurement and uniformity of size of trees with a strong presence on day 1

Stage 1 Residential Subdivision

- To create some diversity in planting character to the streets that compliment and contrast with the native and endemic species within the adjacent riparian corridor valleys
- To provide important solar access and light during winter months to the local residents using deciduous species.
- To create variety and interest in the streetscapes
- To provide native buffers within streets immediately surrounding riparian corridors
- To provide native avenues as connections between riparian corridors
- To address issues of procurement and uniformity of size of trees with a strong presence on day 1

NATIVE VS EXOTIC TREE PLANTING

We acknowledge Council's Sustainable planting policy (DW2177088) and have identified key areas on site that will be fully compliant with this policy in the use of native species. However, given the significant scale of this project and its variety of areas, we believe it is important to establish a rich and varied palette of plants for the local community.

Figure 1 to the right is a graphic illustration that represents the proposed distribution of ornamental, Australian native and endemic native trees across the development.

As the diagram suggests there will be extensive areas of endemic native tree planting throughout the site. This will generally be focused on areas within or directly adjacent to riparian corridors to ensure that the integrity of the environment for local flora (Cumberland Plain Woodland) and fauna is maintained and enhanced.

Street tree planting will also make use of endemic native species adjacent to riparian corridors and on roads that interconnect between them to provide secondary canopy links, and thereby a green web of habitat.

Some streets and open spaces will be planted with Australian native trees that are proven to be successful street trees and provide an evergreen canopy for shade.

Exotic tree planting has been minimised to key avenues and streets such as Goldsmith Avenue to provide a sense of arrival consistent with the aims raised above. Some of the east-west streets within the development that are not adjacent to riparian areas are also proposed to have exotic deciduous trees. This is to provide increased solar access during winter months and to provide some seasonal highlights to streetscapes.

PROPOSED DISTRIBUTION OF ENDEMIC, NATIVE AND EXOTIC TREE SPECIES

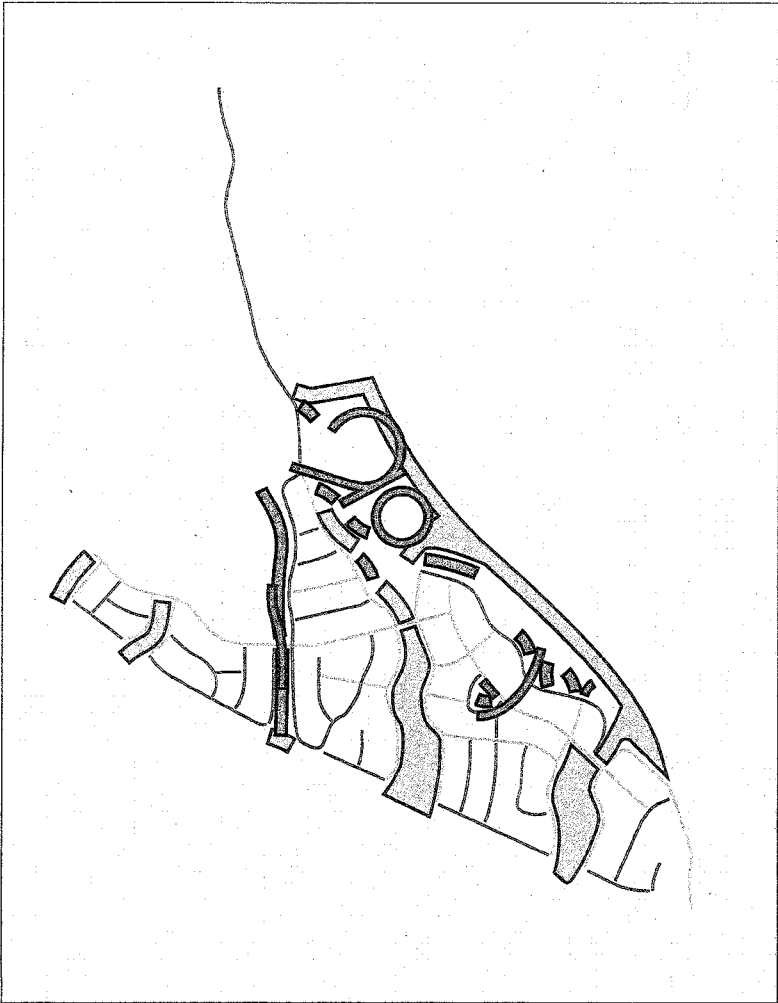


Figure 1

TREES IN OPEN SPACE		STREET TREES	
Deciduous / Ornamental Species	15%	Deciduous / Ornamental Species	25%
Australian Natives	15%	Australian Natives	25%
Endemic Natives	70%	Endemic Natives	50%

Approximate Total Area Percentage of Trees in Open Space

Approximate Linear Metres Percentage of Trees in Streets

GOLDSMITH AVENUE - STREET TREE SPECIES

The landscape design for Goldsmith Avenue is to provide a strong sense of arrival that:

- Reinforces the university as a major regional and international destination
- Provides contrast with the surrounding native vegetation (both existing and proposed)
- Indicates a significant cultural centre
- Creates a distinct and attractive gateway that provides a sense of aspiration to the local Campbelltown community

As described in the Landscape Design Statement submitted with the DA by JMD consultants (dated March 2012) the intent is to distinguish this entrance from its surrounding landscape by the use of formal boulevard tree species that contrast with the surrounding planting.

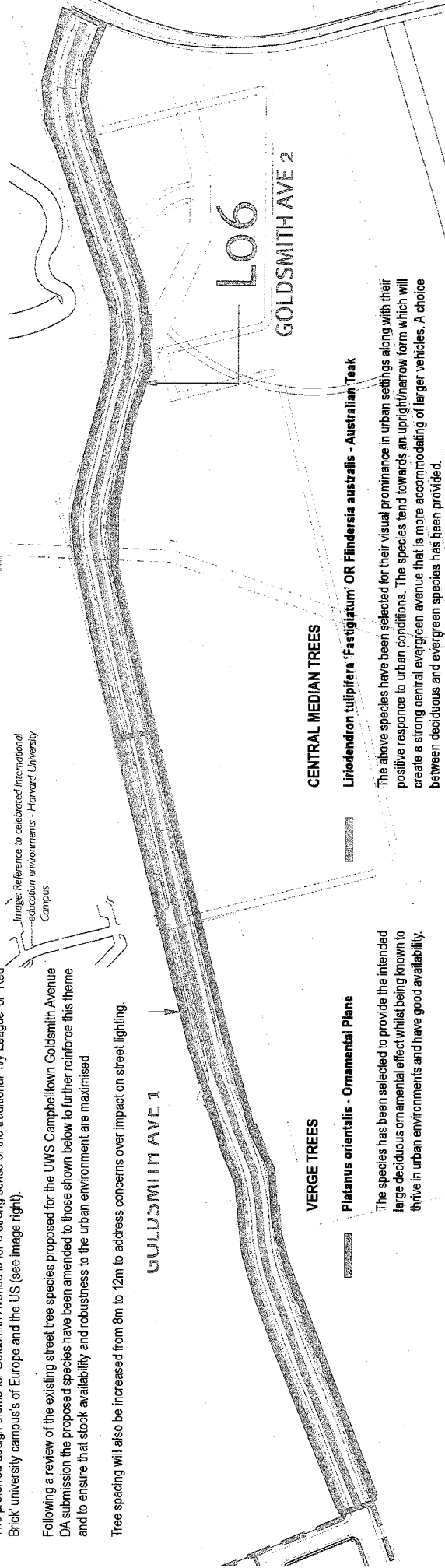
The preferred design theme for Goldsmith Avenue is for a strong sense of the traditional 'Ivy League' or 'Red Brick' university campus's of Europe and the US (see image right).

Following a review of the existing street tree species proposed for the UWS Campbelltown Goldsmith Avenue DA submission the proposed species have been amended to those shown below to further reinforce this theme and to ensure that stock availability and robustness to the urban environment are maximised.

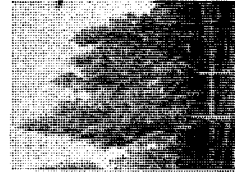
Tree spacing will also be increased from 8m to 12m to address concerns over impact on street lighting.



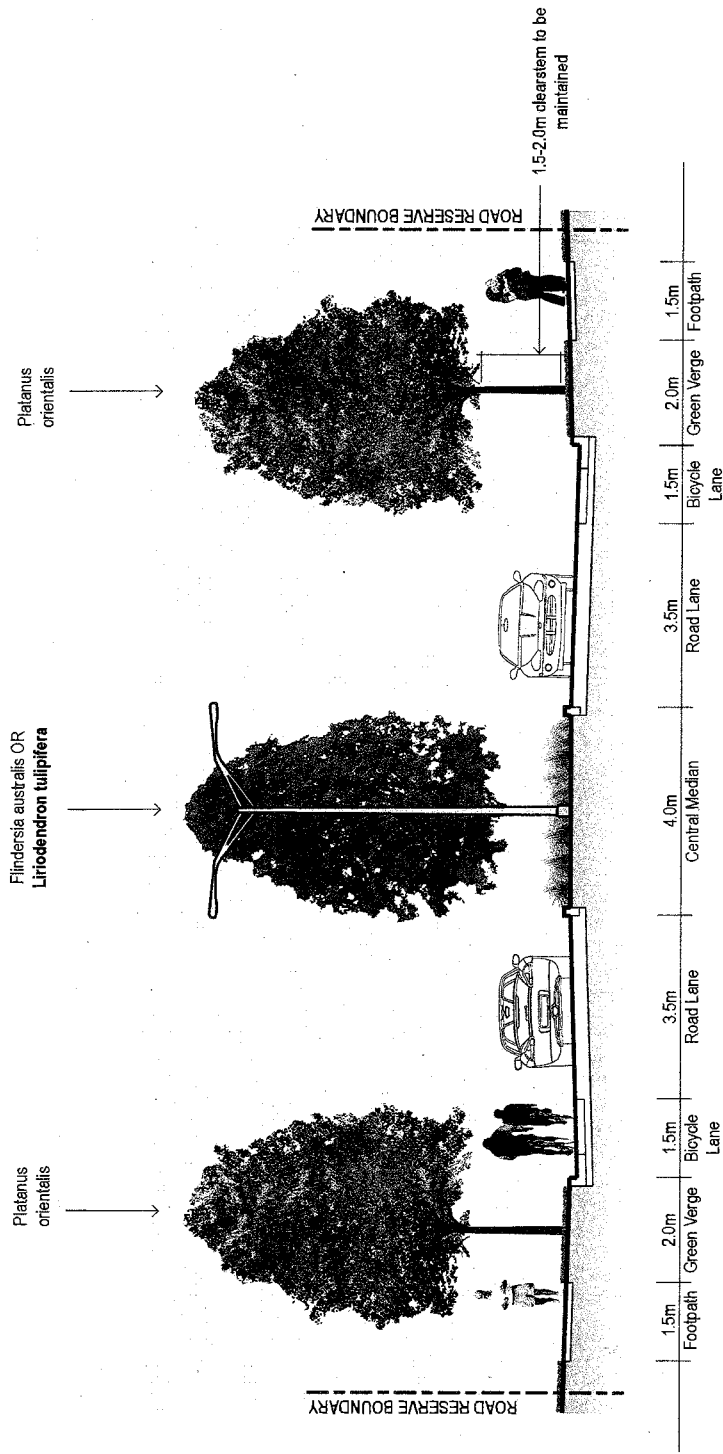
Image Reference to celebrated international education environments - Harvard University Campus



The species has been selected to provide the intended large deciduous ornamental effect whilst being known to thrive in urban environments and have good availability.

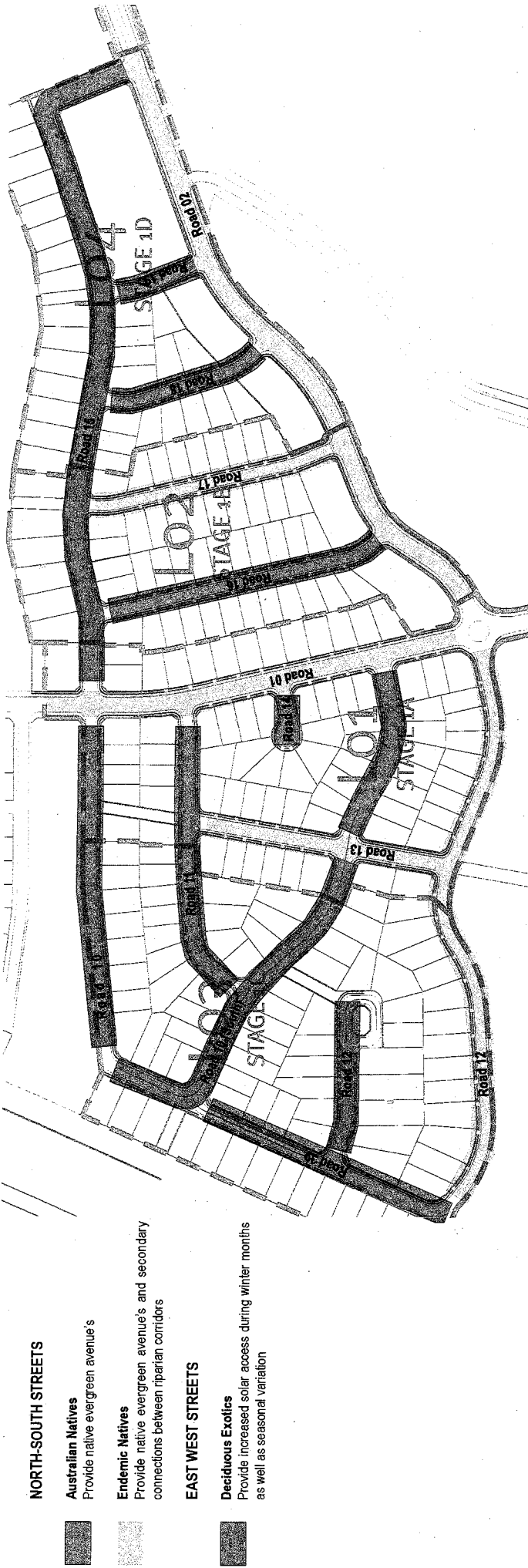


Note:
This drawing is to be read in conjunction with the DA drawings for the UWS Campbelltown Stage 1 - Drawing numbers LA 05 - LA 08 dated Feb 2012 By JMD Design.



STAGE 1 SUBDIVISION - STREET TREE SPECIES

Following a review of the existing street tree species proposed for the UWS Campbelltown Subdivision a number of species changes are suggested to fall in line with a broad strategy for the entire development (See drawing SMC0005-DA 1). The strategy, illustrated below, is generally in-line with that submitted with the DA application for Stage 1 (refer to the Landscape Design Statement, dated March 2012 by JMD) however some specific species have been substituted (see summary below).

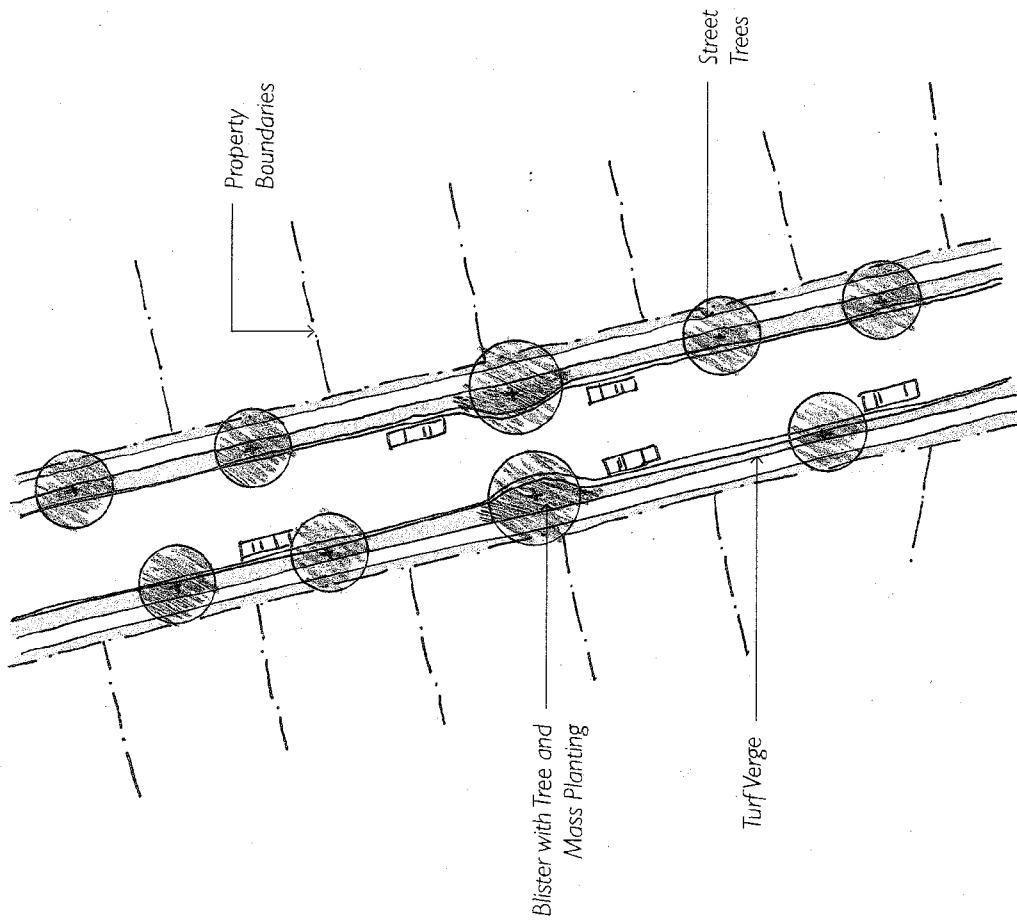


SUMMARY OF SPECIFIC SPECIES CHANGES TO EXISTING DA APPLICATION (refer to JMD drawings L01 - L08 dated Feb 2012)

- Road 1 (Collector Road) - Changed from alternating species of *Eucalyptus crebra* and *Corymbia maculata* to single species avenue of *E. crebra* based on a preference for creating a formal and strong identity for the Collector Road. (*C. maculata* is also hard to get in large sizes).
- Road 2 - Avenue of *Syncarpia glomulifera* in lieu of the alternate species with *Toona ciliata*. *Toona* is less available in the large size that we will require for the collector road and a simplified pattern will reinforce the road character; there is an opportunity to include clumps or a second row as the sportsfield design develops.
- Road 10 - Replace *Brachychiton populneus* with *Celtis australis*, as *B. populneus* takes a long time to establish and produces the flowers which are one of its key characteristics. The inclusion of *C. australis* provides an attractive (deciduous) edge to the park and will also still provide adequate sunlight to front yards in cooler months. It is a hardy tree with a moderate growth habit and will provide better shade in the summer months than *B. populneus*.
- Road 10 (South) - Single species avenue of *Acer buergerianum* in lieu of alternate pattern with *Melaleuca linifolia*. *Melaleuca* is generally not preferred as a residential street tree for aesthetic reasons and it is also a small species that does not provide adequate shade.
- Road 11 - *Fraxinus oxycarpa* 'Raywoodii' (unchanged as considered appropriate)
- Road 12 - Changed from *Eucalyptus fibrosa* to an avenue of *Syncarpia glomulifera* to match road 2.
- Road 13 - Changed to a Monoculture of *E. punctata* to showcase the trunk colours which is one of the key characteristics of this species and to further reinforce the identity of Road 13.
- Road 14 - *Pistacia chinensis* (unchanged as considered appropriate)
- Road 15 - Changed to a Monoculture of *Zelkova serrata* in lieu of alternate planting to reinforce road identity.
- Road 16 - Replace *Melaleuca stypheloides* with *Lophostemon confertus*. *Melaleuca* removed as per reasons above.
- Road 17 - *Angophora bakeri* (unchanged as considered appropriate)
- Road 18 - *Flindersia australis* (unchanged as considered appropriate)
- Road 19 - Change from *Melaleuca decora* to *Waterhousea floribunda*, for reasons given above (Road 10).
- Road 39 - Replaced *Callistemon salignus* with *Waterhousea floribunda* as it provides a more appealing form as a street tree.



Example Blisters at Oran Park Estate



Client



LANDSCAPE ARCHITECTS • URBAN DESIGNERS • LANDSCAPE PLANNERS • LEVEL 2, 17 BRIDGE STREET • STONEY NSW 2005 • PO BOX 4188 • AUSTALIA • STONEY@CLOUSTON.COM.AU • TELEPHONE +61 2 8272 4999 • FACSIMILE +61 2 8272 4998

UWS • Stage 1

BLISTER PLANTING TYPE A

