

1 st Preference Liquidambar



tree

pros

Frequently used as car park and street tree Reasonably fast Growing Good seasonal shade tree Has attractive autumn colour Can be readily underpruned to lift canopy Generally considered to be a very reliable deciduous tree

Liquidambar styraciflua



detail

cons

Larger leaves may be problematic as leaf drop Can grow into a large tree - generally considered less of an issue especially when growing in less favourable situations, eg streets Fruit are similar in size to that of the Plane Tree and as such may be considered a nuisance

Examples: Murray Street Perth CBD (Freeway to William St)

Montage of Napoleon Street - Liquidambar styraciflua





landscape architects & urban designers

2nd Preference Chinese Elm



tree

pros

Used as street tree Reasonably fast Growing Small to medium tree-suitable in scale to the street Good shade tree Attractive bark-flaking red and grey Can be underpruned to lift canopy

Examples: Forrest Place Perth CBD

Ulmus parvifolia



detail

cons

Semi deciduous in WA -generally holding most of it's leaves long into winter Can drop sticky sap Montage of Napoleon Street - Ulmus parvifolia





3rd Preference Liquidambar



tree

pros

Frequently used as car park and street tree Reasonably fast Growing Good seasonal shade tree May have attractive autumn colour Can be underpruned to lift canopy Generally considered to be a very reliable deciduous tree This sterile variety does not bear fruit so fruit drop is not a problem

Examples: nature playground East Victoria Park

Liquidambar styraciflua Rotundiloba '



detail

cons

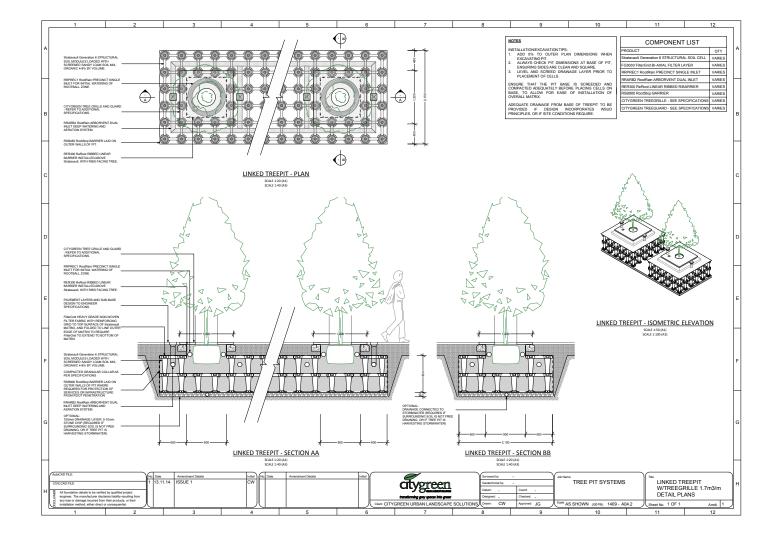
Larger leaves may be problematic as leaf drop

Can grow into a large tree - generally considered less of an issue especially when growing in less favourable situations, eg streets This cultivar is relatively new to Perth and as such is somewhat 'untested'

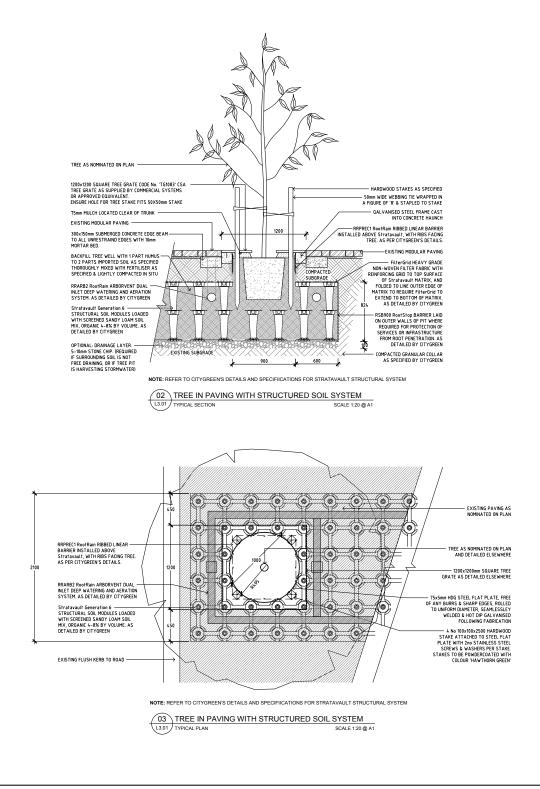
Photo source: Oregon State University https://oregonstate.edu/dept/ldplants/listr1.htm Montage of Napoleon Street - Liquidambar styraciflua 'Rotundiloba'



Manufaturer's typical tree planting detail



Indicative Napoleon St tree planting detail



Indicative opinion of probable costs

NAPOLEON STREET TREE REPLACEMENT OPINION OF PROBABLE COST

31/7/17

NAPOLEON STREET TREE REPLACEMENT				
DESCRIPTION	UNIT	QTY	RATE	AMOUNT
General, Earthworks, Demolition				
Mobilisation and Demobilisation (5% of total cost)	item		\$0.05	\$750.00
Removal of existing tree incl all roots and removal of existing subgrade within tree well. Incl prep, excavation and detailed siteworks for new tree. Incl protection of existing below ground ground services	per tree	1	\$600.00	\$600.00
Removal of existing concrete root barriers and other below ground material	per tree	1	\$50.00	\$50.00
Removal and storage of existing pavers. *Allow for 25% of wastage	sq m	10	\$15.00	\$150.00
Sub Total			3 8	\$1,550.00
Sub-Surface Structured Soil System				
Supply & install sub-surface structured soil system. (This cost allows for a 5.0m x 0.6m system per tree)	m3	12	\$830.00	\$9,960.00
Preparation of tree well for structured system	m3	12	\$30.00	\$360.00
Sub Total				\$10,320.00
Handsands Astherida Fuelter				
Hardworks, Softworks, Furniture	a sa da sa d		\$600.00	\$600.00
Supply & install 200L tree Supply & install imported soil media/conditioner	each m3	1	\$600.00	\$600.00 \$960.00
Supply & install 1200x1200mm galv tree grate	each	12	\$1,600.00	\$960.00
Supply & install tree guard	each	1	\$2.000.00	\$2,000.00
Install/re-lay stockpiled pavers to match existing	sqm	8	\$50.00	\$400.00
Supply & install new trafficable pavers to match existing (25% of new pavers)	sqm	2	\$80.00	\$160.00
Sub Total				\$5,720.00
Irrigation				
Supply & install new bubbler to tree. (No further irrigation work included)	per tree	1	\$80.00	\$80.00
Sub Total				\$80.00
SUB TOTAL (EXC GST)				A 47 070 00
				\$17,670.00
GST				\$1,767.00
TOTAL (INCL GST)				\$19,437.00

*Note: The above costs are per tree. Total cost is for one tree only. Costs exclude any irrigation pipework or other irrigation costs except new bubbler. Excludes maintenance and contingencies.

