



Tree Management Strategies

Arborist Letter



Brookvale Oval

16-6-20

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To Whom it may Concern

Tree Management Strategies was approached by Andrew Hobbs of Urbis to review the tree impacts associated with the Brookvale oval re-development and in particular the impacts associated with Tree 47, 48, and 49 previously outlined in the Arboricultural assessment dated the 23-10-19.

Aim

- Reassess the tree impacts affecting Tree 47, 48 and 49;
- Offer recommendations on the ability to retain tree 47, 48 and 49;
- Offer recommendations on potential sensitive construction methods to retain trees assessed.

Observations

As shown in the revised Tree Impact Plan (Appendix 1) and Tree incursions (Table 1), the accumulative and additional tree impacts to the (TPZ) Tree Preservation Zones of Tree 47, 48 and 49 are considered Major and without re-design or sensitive construction methods would require further tree removals.

Table 1: Tree Incursions

TreeID	Incursion type	TPZ incursion % breakdown	Total incursion % for individual tree
47	OSD connection	4.8%	26.1%
47	OSD tank	5.6%	As above
47	Stormwater	15.7%	As above
48	OSD tank	11.2%	38.4%
48	Stormwater	27.2%	As above
49	Stormwater	41.6%	41.6%

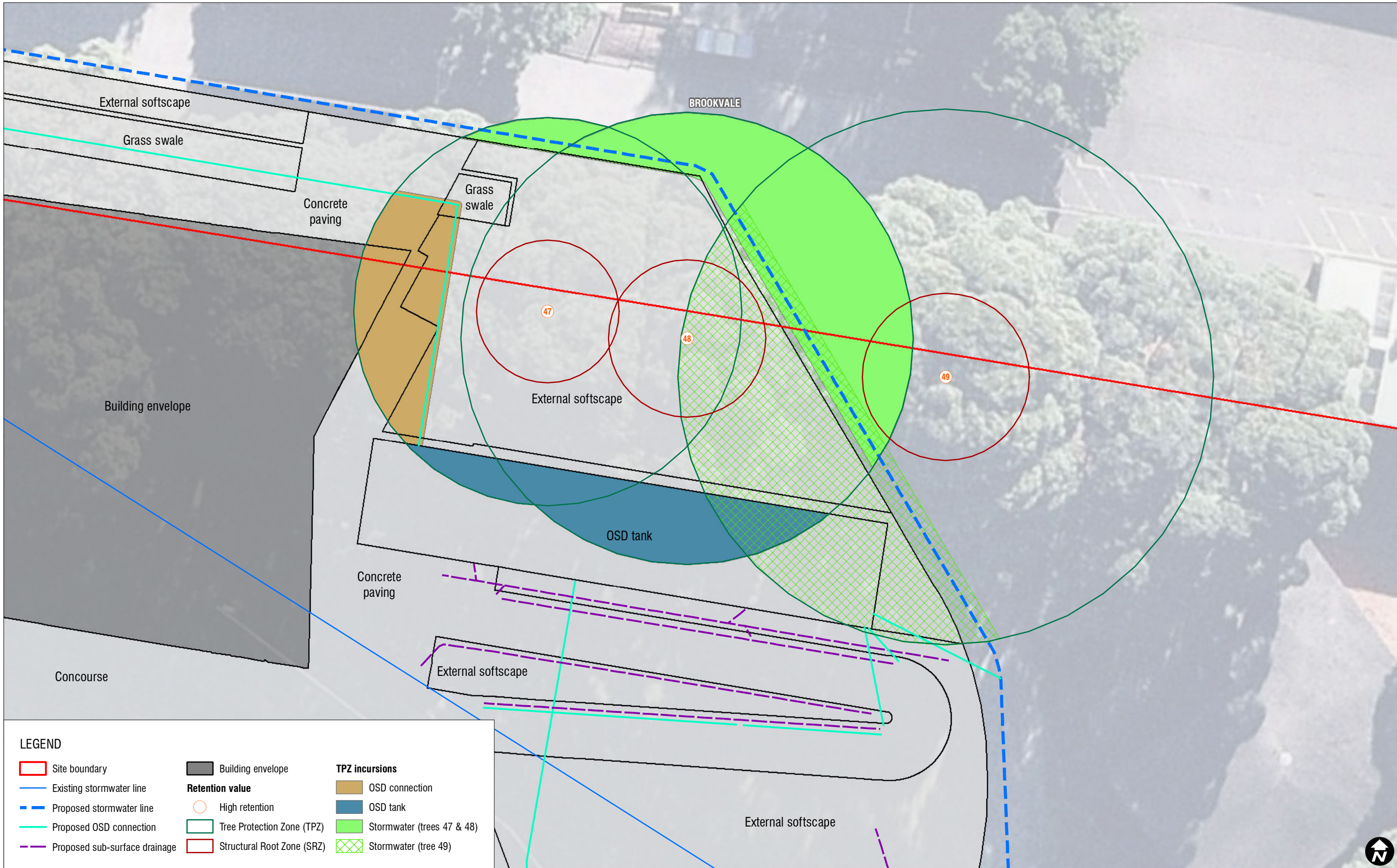
Conclusion

It is concluded that to bring the current major TPZ incursions of Tree 47, 48 and 49 to an acceptable level the storm water design must be either changed or the construction method must be installed via under-boring at a minimum depth of 600mm. This construction method would reduce the storm water impact to zero and leave the OSD impacts at an acceptable level considering project arborist involvement as per the Arboricultural assessment dated the 23-10-19.

Further consideration has been considered in regard to root mapping and although physically possible, the close proximity to Trees 48 and 49 will inevitably find an expansive root system requiring alternative construction methods.

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LEGEND

Site boundary	Building envelope	TPZ incursions
Existing stormwater line	Retention value	OSD connection
Proposed stormwater line	High retention	OSD tank
Proposed OSD connection	Tree Protection Zone (TPZ)	Stormwater (trees 47 & 48)
Proposed sub-surface drainage	Structural Root Zone (SRZ)	Stormwater (tree 49)



Scale: 1:150
GDA 1994 MGA Zone 56

16-Jun-2020
630.12842

Source: Nearmap (June 2020)

Note:
 - Building envelope design based on Hassel drawing Storm Water Site Works Concept Plan, drawing no. C05-2, Rev F.
 - Trees 47 to 49 impacted by paving.