

Natural Pond  
Pond and planting scheme as designed by Poolscape  
Refer to Poolscape NSP plans A1.pdf for details  
Stormwater Management from proposed natural pond:  
Total catchment area: 371.5m<sup>2</sup> (0.037ha) including planted area.  
Stormwater soakaway design by Polypipe Civils  
Refer to Polypipe MicroDrainage calcs details T-MD-78638.  
Design takes into account following factors:  
Infiltration rate: 0.036m/hr  
Design Storm Event Period 100 + 40% Climate Change Factor  
Infiltration Rate: 0.039 m/hr  
Half Drain Time: 526 minutes.  
Flood Studies Report (FSR) data: M5-60: 19mm  
R ratio= 0.35  
95% void ratio used to calculate available storage in crates.

Soakaway size:  
Crate size: 1m x 0.5m x 0.4m  
Soakaway: 20m x 3m x 0.8m  
Volume: 24.0m<sup>3</sup>  
Storage Volume: 22.8m<sup>3</sup>  
Number of cells (PSM1A): 120 wrapped in geotextile

Soakaway located more than 2.5m from boundary.

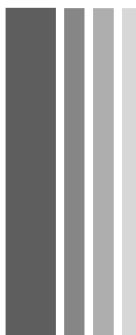
100mmø solid drainage pipe elbow as pond overflow for controlled max water height set at 25mm below perimeter edge

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B. Amended  
A. Amended

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Mr Julian Dawes

Proposed Natural Wildlife Pond  
Stormwater Management

1:200 @ A3

FEB.22

21-1052-36B

Mar.22  
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