



## Atherton Street Oakleigh - Passive Irrigation Retrofit

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### **Biography:**

*Ralf is an Environmental Engineer, well-recognised within Melbourne's Water Sensitive Urban Design (WSUD) and Integrated Water Management (IWM) industry: with seventeen years experience in both private and public enterprise. In all of his work, he has applied his engineering skills within a landscape, green infrastructure and open space context.*

Atherton Street in Oakleigh is a busy local shopping strip that forms part of the Oakleigh precinct. This area has undergone enhancement works for a number of years. In Atherton Street the footpath and parking arrangements will be replaced, realigned and improved. There is a strong desire by the council to retain and ensure the ongoing health of the existing mature plane trees and to add new trees and green understory where possible. City of Monash also have a commitment to sustainable water management.

Through this project we assessed the WSUD opportunities to ensure the health of the mature trees being retained in this busy shopping strip while the footpath, kerb and channel are renewed. This required developing and workshopping ideas with council staff including the maintenance areas. The final solution includes raingardens, structural cells and the development of a new, low maintenance litter and sediment retention and overflow pit.

This project is now under construction and is one of the first in Australia where Citygreens stratacells are being retrofitted next to existing mature trees.

The drawings were developed in collaboration with Three Acres Landscape Architecture and City of Monash Landscape and Engineering design teams.