

WGE Specialist Lighting Preliminary Concept Report

Date: 26.06.2019 | Revision 001-D



# **Lighting Concept:** - Netball Courts

- Car Park & Landscaping









# **Netball Courts**

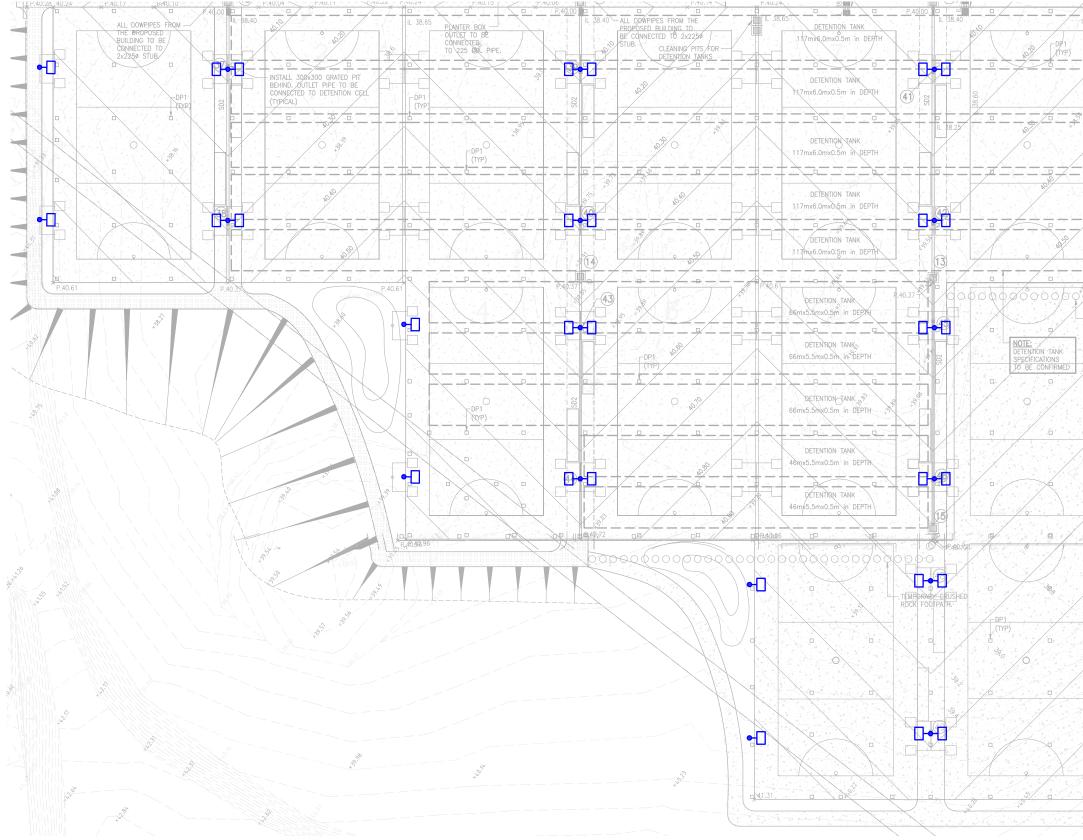






Pole locations shown are indicative, subject to finalised court layout & structural column details. Poles will be located to suit recommended run-off clearances.

New sports lighting to be designed to suit Australian Standard 2560.2.4 & Netball Australia National Facilities Policy Manual. Recommended layout is for individual control for single and dual court as illustrated. this is to ensure pole heights are lower and courts zones can be controlled separately for energy efficiency for courts not being used.



## **Bayside Netball Centre**



no.4 0 **D**• \_-Specialist Lighting Concepts ₽ <u>D</u>•



Thorn Champion Pro 264L 2666818

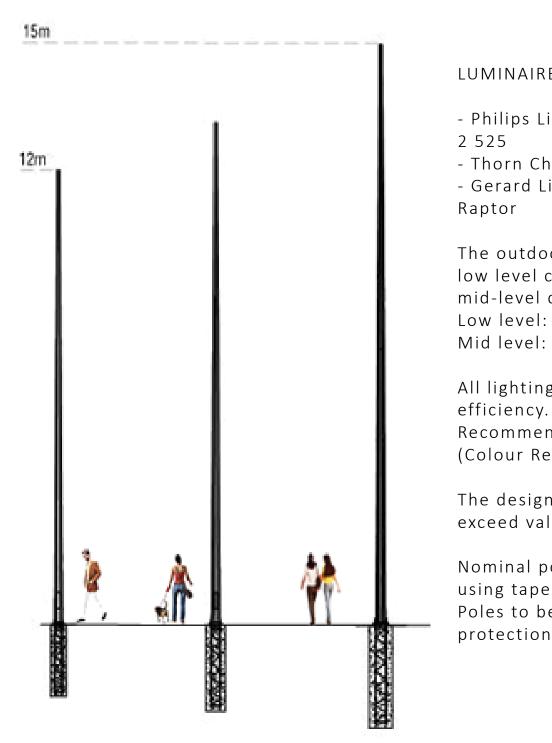


Philips Lighting - Optivision LED Gen 2 525



Gerard Lighting - Sylvalia Briteline Raptor





Tapered hexagonal poles. 12-15m height.





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LUMINAIRE OPTIONS
- Philips Lighting - Optivision LED Gen
- Thorn Champion Pro 264L 2666818
- Gerard Lighting - Sylvalia Briteline
The outdoor courts will be lit to suit
low level competition/ trainning and
mid-level competition.
Low level: 100 lux
Mid level: 200 lux
All lighting will be LED, for energy
Recommend 4000K LED with CRI
(Colour Rendering Index) of 65+.
The design will ensure glare does not
exceed value of 50.
Nominal pole heights will be 12-15M
using tapered hexagonal type poles.
                                        Specialist Lighting Concepts
Poles to be supplied with lightning
protection.
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# **Car Parks & Landscaping**





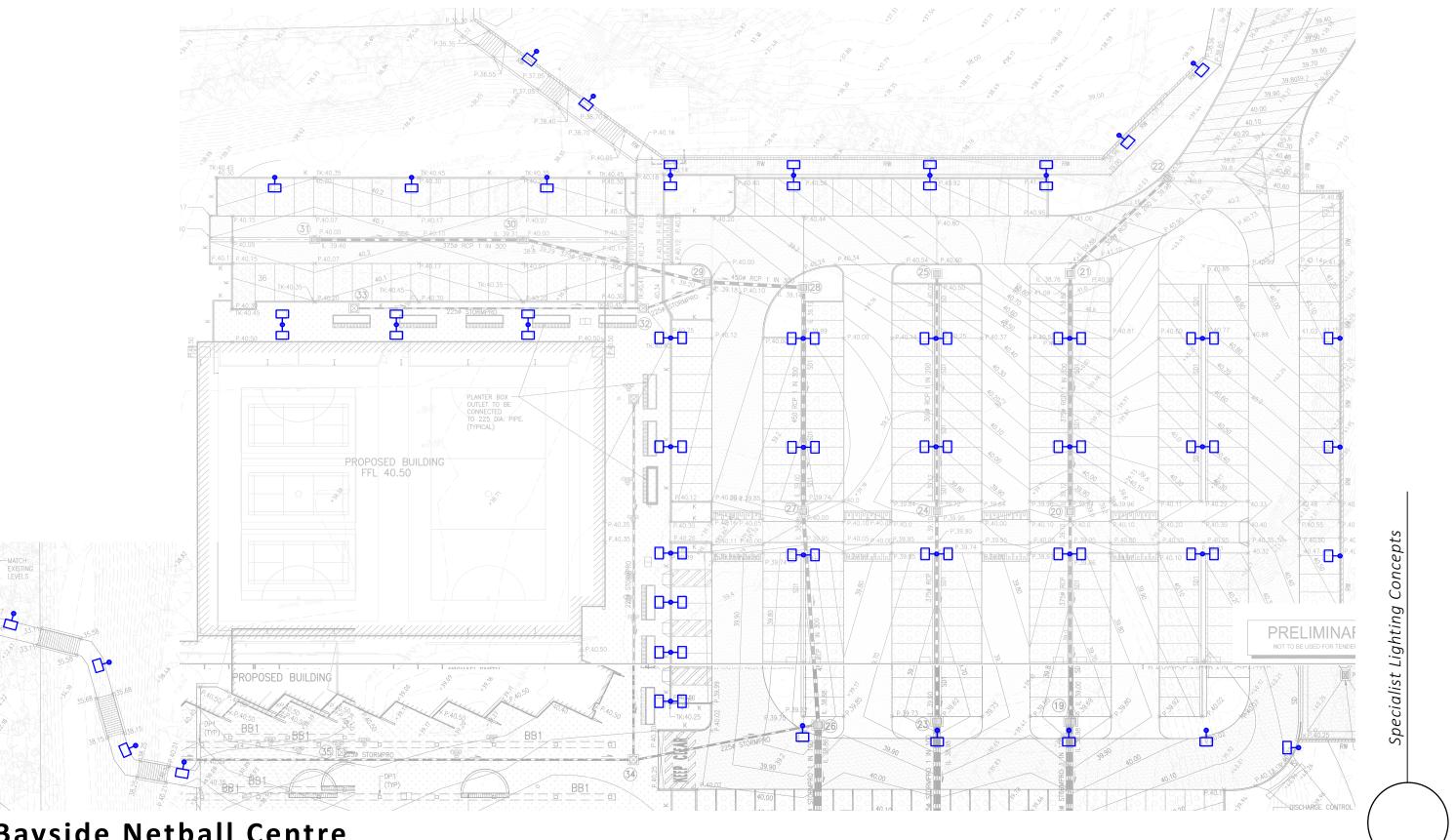


Lighting Control will be used for energy management for the external precint lighting.

Car Parks will be lit to Australian Standards 1158.3.1, category P11a, 14 lux average horizontal illuminance whilst the facility is in operation during peak times.

For after hours, luminaires will be dimmed to P11c category, 3.5 lux average horizontal illuminance.

DDA parking spaces to be lit to Australian Standards 1158.3.1, category P12 at all times.

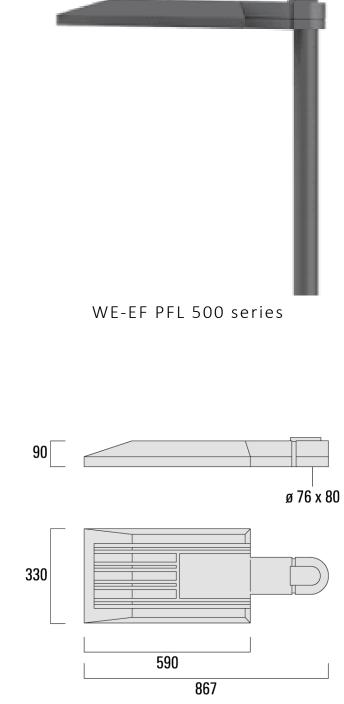


**Bayside Netball Centre** 









The luminaires suggested have a simple, minimal design which doesn't interfere - yet contrasts - with the organic shapes created by the landscaping.

3000k colour temperature, full cut-off luminaires for "dark sky" light spill control.

Nominal pole heights will be 8m for car park, and 6m for pedestrian pathways.

### **Bayside Netball Centre**



no.8

Lighting for the car parks to provide uniform levels of light throughout the lot. Lighitng levels to comply with Australian Standards as well as allow visitors to walk comfortably and drive safely.





# **Obtrusive Light Compliance Report**







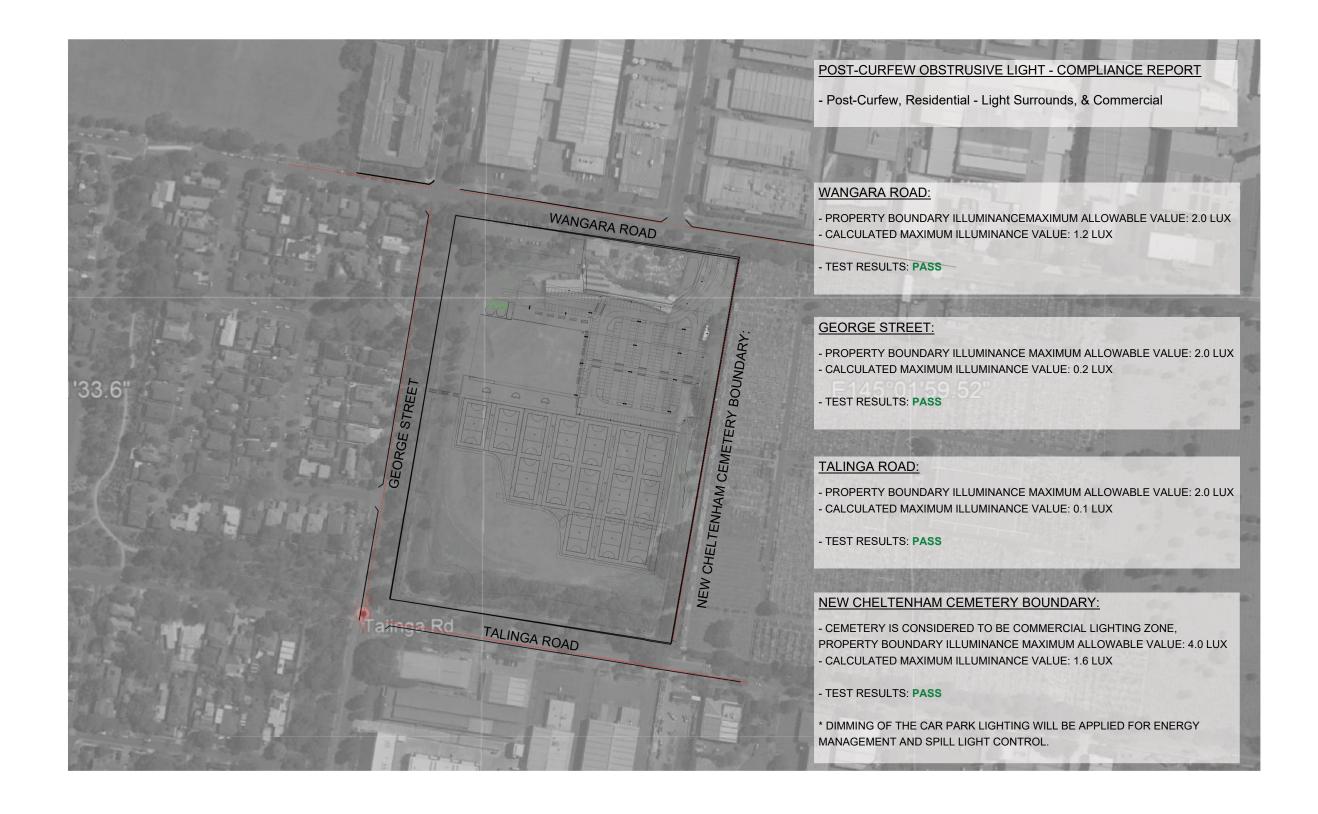




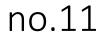
WOOD & GRIEVE ENGINEERS

## no.10

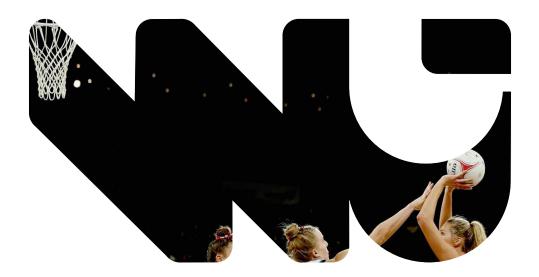












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