

5.16 Wy Yung Recreation Reserve

The following details the condition of the existing floodlighting installation and observations from our site inspection at the Wy Yung Recreation Reserve, located at 60 Bullumwaal Rd, Wy Yung.

Refer Section 6 of this report for proposed scope of works to facilitate an LED floodlighting upgrade. Refer appendices for the proposed LED floodlighting design.



Wy Yung Recreation Reserve – 60 Bullumwaal Rd, Wy Yung VIC



Existing Football Oval



Existing Netball Court

5.16.1 General Condition of Floodlighting Installation

5.16.1.1 Football Oval Floodlighting Installation Condition

From our observation at ground level, the existing floodlighting installation appears to be of a poor standard. There are 4 no. existing fixed timber poles surrounding the oval, each approximately 10m tall containing a varying quantity of floodlights. The pole to the north-east of the oval contains 2 no. approximately 2000W metal halide floodlights, the pole to the north-west of the oval contains 2 no. approximately 2000W metal halide floodlights, the pole to the south-east of the oval contains 2 no. approximately 2000W and 2 no. approximately 1000W metal halide floodlights, and the pole to the south-west of the oval contains 3 no. approximately 2000W metal halide floodlights.

The existing floodlights appear to be aimed at an angle which may present a high level of glare to players and surrounding roads which would likely not meet the recommendations of the Australian Standards AS2560.2-2021 and AS4282-2019 respectively. In addition, the existing pole heights do not comply with the recommended pole heights in AS2560 for an oval of this size.

The pole footings were not visible for the existing poles. We assume that the existing footings would be in poor condition based on the condition of the existing poles and age of the floodlighting installation.

We note the club's representative on site indicated that this site is prone to major flooding events and the club is in the process of being relocated to a new site which is understood to occur in the next 5-10 years.

A summary of the existing floodlighting installation is as follows:

- + **Existing Pole Condition:** Poor
- + **Existing Floodlight Condition:** Poor
- + **Existing Pole Footing Condition:** Not visible, assumed poor
- + **Existing Pole Height:** Approximately 10m
- + **Number of Poles:** 4 no.
- + **Number of Floodlights Per Pole:** Varies, 11 no. total as described above.
- + **Assessment of Existing Lux Levels:** < 50 lux average
- + **Assessment of Compliance with AS2560:** Not compliant
- + **Assessment of Compliance with AS4282:** Likely not compliant
- + **Floodlighting Hours of Use:** 2-3 hours, 2 nights per week on average.
- + **Suitability to Re-use Existing Pole Infrastructure:** The re-use of existing floodlighting poles to retrofit new LED floodlights is not feasible due to the poor condition of existing timber poles and lack of existing available structural information on existing pole and pole footing design. In addition, the poles are not high enough for an AS2560.2 compliant floodlighting design.

Refer below photos showing the condition of existing floodlighting infrastructure on site.

5.16.1.2 Netball Court Floodlighting Installation Condition

From our observation at ground level, the existing floodlighting installation appears to be of a poor standard. There is 1 no. existing fixed concrete pole adjacent to the single netball court which is approximately 10m tall and contains 3 no. approximately 2000W metal halide floodlights.

The existing floodlights appear to be aimed at an angle which may present a high level of glare to players and surrounding roads which would likely not meet the recommendations of the Australian Standards AS2560.2-2021 and AS4282-2019 respectively. In addition, the existing pole heights and quantities do not comply with the recommended in AS2560 for a netball court of this size.

The pole footings appear to be a concrete base to match the pole diameter so are not visible. There was no evidence of damage at the base of the pole.

A summary of the existing floodlighting installation is as follows:

- + **Existing Pole Condition:** Poor
- + **Existing Floodlight Condition:** Poor
- + **Existing Pole Footing Condition:** Not visible, assumed poor
- + **Existing Pole Height:** Approximately 10m
- + **Number of Poles:** 1 no.

- + **Number of Floodlights Per Pole:** 3 no.
- + **Assessment of Existing Lux Levels:** Approximately < 50 lux with poor uniformity.
- + **Assessment of Compliance with AS2560:** Not compliant.
- + **Assessment of Compliance with AS4282:** Likely not complaint.
- + **Floodlighting Hours of Use:** 2-3 hours, 2 nights per week on average.
- + **Suitability to Re-use Existing Pole Infrastructure:** The re-use of existing floodlighting poles to retrofit new LED floodlights may be feasible subject to a review of the existing pole and pole footing structural details by a structural engineer, to determine whether they have adequate capacity to accommodate the increased weight and sail area associated with the LED floodlights. We note that we have not been able to obtain any existing structural information on the poles or pole footings on site. We anticipate that the control gear associated with an LED floodlighting installation could not be accommodated within the existing pole and would therefore need to be located in a dedicated enclosure adjacent to each pole. Given that there is only 1 no. existing pole and minimum 2 no. poles would typically be required for compliance with AS2560.2, it may make sense to replace the existing poles to match any new additional poles.

Refer below photos showing the condition of existing floodlighting infrastructure on site.

5.16.1.3 Football Oval Floodlight Infrastructure





Football Oval – Existing Floodlights



Football Oval – Existing Floodlighting Poles



Football Oval – Existing Floodlighting Pole Footings