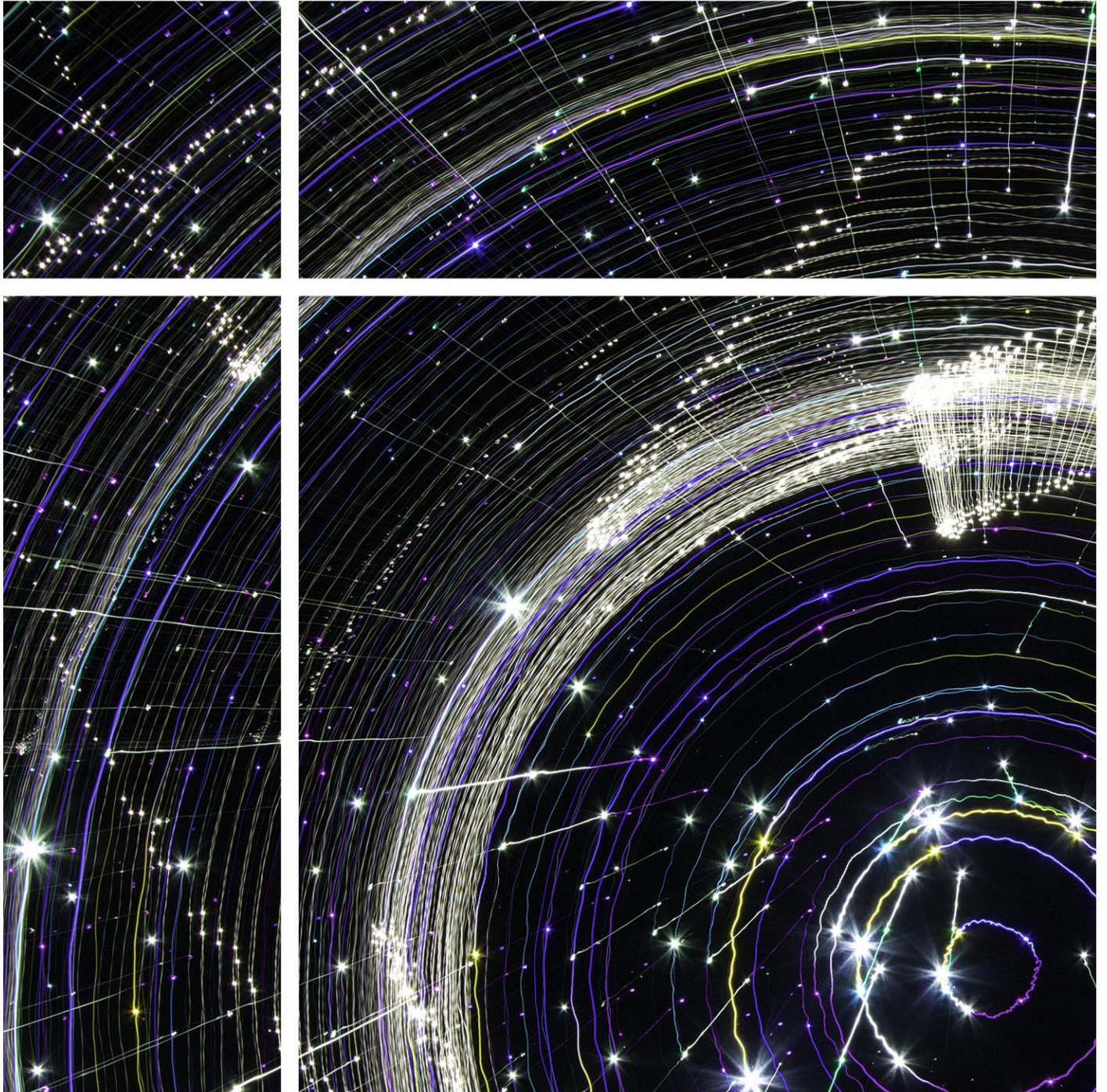


Report

Lighting Impact Management Plan

NEW HIGH SCHOOL IN BUNGENDORE
School Infrastructure NSW



CONFIDENTIAL

Revision: G - EIS
Issued: 14 July 2022

NDYLIGHT
LIGHTING DESIGN

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SUMMARY OF CHANGES

The following changes have been incorporated into this report from the previous revision E dated 7th September 2021:

Section 1 - Introduction

- Content updated

Section 2 – Amended Proposal

- Content updated
- “Figure 1 – Proposed Site Plan” updated to reflect new architectural arrangements and site boundaries.

Section 3 – Site Description

- Content updated
- “Figure 2: Site aerial depicting the land subject to the proposed High School” updated to reflect new architectural arrangements and site boundaries.

1 INTRODUCTION

NDY prepared a Lighting Impact Management Plan that forms part of the Environmental Impact Statement for SSD No 14394209 for a new high school at Bungendore. The Environmental Impact Statement was exhibited by the NSW Department of Planning from Monday 20 September 2021 to Monday 18 October 2021. During the exhibition submissions were received and following exhibition the Department of Planning and Environment issued two requests for information dated 16 November 2021 and 24 December 2021.

This Lighting Impact Management Plan accompanies an Amendment Report for the project and forms an update to the previously issued Lighting Impact Management Plan.

2 THE AMENDED PROPOSAL

Proposal Amendments:

- The amended design no longer includes facilities for Queanbeyan-Palerang Regional Council (Council) such as the previously proposed community health centre, community library and council shop front. The facilities are still to be provided by Council, however, through a separate planning process and on a separate site.
- Administration and staff facilities have been relocated from Block A into Block C (existing council building) and the visual arts and TAS functions have been relocated into Block A.
- The school library has been relocated from Block D to a standalone block, Block E, which is located to east of the Majara Street alignment and centred on the school common.
- Block D has been replanned to address the removal of Council facilities, the relocation of the school library and to sit to the east of the Majara Street alignment. The floor level of Block D has also been lowered to suit the revised building footprint.
- Block B has been relocated to the west, off the Majara Street alignment.
- The games courts and cricket batting nets have been relocated within the school boundary.
- The bulk and scale of buildings facing public roads (Blocks A and B) have been reduced.
- The façade materials of the proposed buildings have been revised to be more sympathetic to the existing village character.
- The primary outdoor learning areas, including the 'covered' outdoor learning areas have been relocated and redesigned to be integrated within the landscape design.
- Minor planning changes to Block B which include relocation of the outdoor learning spaces, student amenities and building services to provide a new covered walk through from the school plaza to Mick Sherd Oval.
- The covered walkway connection between Block B and Block D has been redesigned to arc around the eastern side of the school common and provide a covered connection to the relocated school library, Block E.
- The school security fence between Blocks B and D has been redesigned to arc around the western perimeter of the school common. The school security fence to the northern and southern boundaries has been rationalised and face brickwork piers have been introduced to define the school entries.
- The waste vehicle turning circle has been removed from the proposal. The waste collection area has been relocated to the southern end of the existing carpark and a waste vehicle turning head has been added. A new turning bay is provided for assisted transport vehicles to the northern end of the car park.
- The onsite detention tank has shifted to the west.
- The electronic school sign has been replaced with a changeable, static 'notice board' sign. The sign has been relocated further back from Majara Street, behind the school security fence.
- The Scout storage shed has been relocated from the agricultural plot to within the Scout site. The Scout storage shed will be subject to a separate planning pathway and does not form part of this

application. The school agricultural support building, Block F, has been repositioned and the landscape paths and driveways have been updated to suit the change.

- An addition 58 car parking spaces are proposed along Turallo Terrace providing a total of 98 spaces (compared to the original 35). An additional 3 drop off/ pickup spaces are proposed on Turallo Terrace providing a total of 6 spaces (compared with the original 3).
- The proposed delineation works to Mick Sherd Oval and the War Memorial have been removed from the proposal.
- The redesign of pedestrian crossings on Gibraltar Street and Turallo Terrace from 'School Crossings' to 'Wombat Crossings'.
- A footpath is proposed to the northern side of Turallo Terrace connecting the proposed parking with the existing path adjacent to Turallo Creek

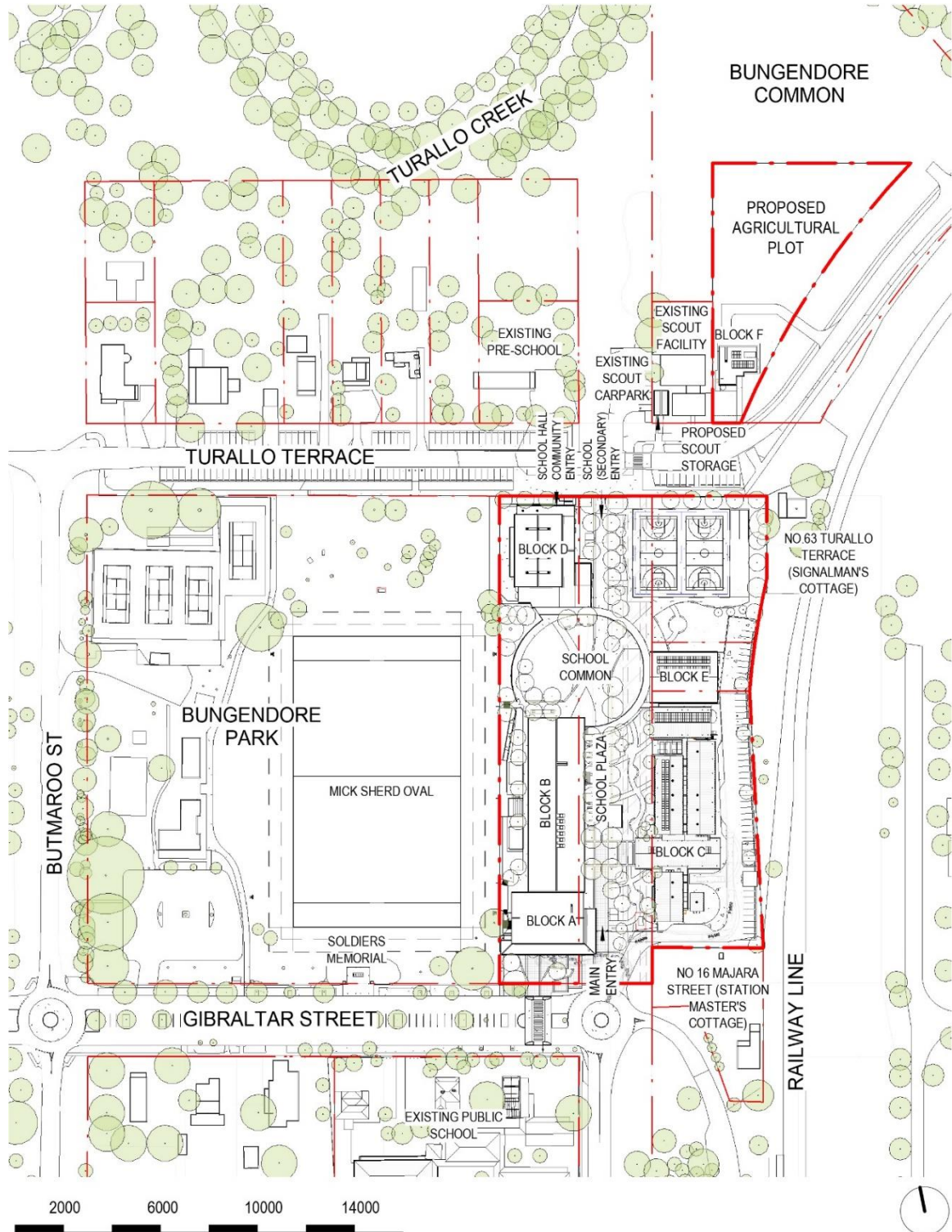


Figure 1 - Proposed Site Plan

3 SITE DESCRIPTION

The proposed development is located within the Bungendore Town Centre within the local government area of Queanbeyan-Palerang Regional Council. The proposal involves the use of land bounded by Bungendore Park, Gibraltar Street, Majara Street, Turallo Terrace and Butmaroo Street, the existing former Palerang Council site at 10 Majara Street, the Majara Street road reserve bounded by Turallo Terrace and Gibraltar Streets and Nos. 2, 4 and 6 Majara Street (Refer to Table 1 below).

The site is legally described as per the existing Lots and DPs in Table 1 below. The school site comprises land which has recently been transferred to the ownership of the Department of Education, being Lots 12-14 of DP1139067, Lot 3 of DP830878, part of Lot 701 of DP1027107, the part of lot 701 of DP96240, and part of the Majara Street Road Reserve. The proposed Lots and DPs are detailed within Table 1 below and are not yet registered at the time of writing of this Amendment Report.

The site is approximately 25,350m² in area and consists of a relatively flat topography. It contains existing Council buildings. The land is mostly cleared of vegetation with some mature trees intersperse throughout subject lots.

The surrounding area generally includes low density residential developments to the north and west, an existing rail line to the east and Bungendore Public School and the Bungendore train station to the south and south west respectively.

New high school in Bungendore legal descriptions		
Property Address	Existing Lot and DP	Proposed Lot and DP
6-14 Butmaroo Street	Part Lot 701 DP1027107	Lot 1 DP1276282
2 Majara Street	Lot 12 DP1139067	Lot 12 DP1139067
4-6 Majara Street	Lot 13 DP1139067 Lot 14 DP1139067	Lot 13 DP1139067 Lot 14 DP1139067
10 Majara Street	Lot 3 DP830878	Lot 3 DP830878
Butmaroo Street	Part Lot 701 DP96240	Lot 1 DP 1276285
Portion of Majara Street (between Turallo Terrace and Gibraltar Street)	N/A	Lot 1 DP 1276279



Figure 2: Site aerial depicting the land subject to the proposed High School.

4 PROPOSED LIGHTING AND MITIGATION MEASURES

4.1 High School External Lighting

The proposed lighting as part of the new High School works consists of security lighting to provide low illumination levels to pathways and a new car park. The design will be done in accordance with “AS1158:2020 Lighting for the roads and public spaces” and “AS4282.2019 – Control of the obtrusive effects of outdoor lighting.”

In accordance with “AS1158:2020 Part 3.1: Pedestrian area (category P) lighting” each area containing external lighting of the new works has been categorised as:

AREA	AS1158:2020 Part 3.1 - Category
External Walkways	Category PA1
Car Park	Category PC3
Accessible Car Spaces	Category PCD

The mitigation of any adverse effects will be managed through the use of:

- Selection of luminaires with tight beam control
- Where applicable Luminaires are to be mounted on adjustable brackets
- Luminaires that are dimmable
- Where applicable glare shields such as back shields or louvres
- The use of timers to automatically turn off or dim lighting system as required

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