



Ref: 14584

22 August 2019

Manny Prouzos Senior Project Architect Billard Leece Partnership SYDNEY, NSW

**Attention:** manny@blp.com.au

Dear Manny,

# NSW Department of Planning and Environment – Prior to Commencement of Construction Conditions Picton High School – Traffic Engineering Statement - Response to Condition B34

Stantec has reviewed the car park and access layout for the redevelopment of Picton High School at Argyle Street, Picton against the following documents:

- Australian Standards AS/NZS 2890.1:2004 Parking Facilities Part 1: Off-Street Car Parking;
- Australian Standards AS2890.2:2002 Parking Facilities Part 2: Off Street Commercial Vehicle Facilities; and
- Australian Standards AS/NZS 2890.6:2009 Parking Facilities Part 6: Off-street Parking for People with Disabilities.

This letter contains our advice in relation to the car parking layout and vehicular access. The site plan has been prepared by Billard Leece Partnership (BLP) and is shown within Appendix A.

### **Relevant Consent**

The Department of Planning and Environment (DPIE) issued a development consent letter dated 27 June 2019, regarding a number of conditions, including the car parking and service vehicle layout requirements (Condition B34) for the approved redevelopment of Picton High School.

The consent details are as follows:

- Application number: SSD 8640
- Address: 480 Argyle Street, Picton
- Proposed development: Picton High School redevelopment

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The specific condition addressed in the following statement is stated below:

Condition B34: Compliance with the following requirements must be submitted to the satisfaction of the planning Secretary prior to the commencement of construction:

- (a) all vehicles must enter and leave the Site in a forward direction;
- (b) minimum of 141 on-site car parking spaces (including 4 accessible parking spaces) for use during operation of the development and designed in accordance with the latest version of AS2890.1;
- (c) the swept path of the longest vehicle entering and exiting the Site in association with the new work, as well as manoeuvrability through the Site, must be in accordance with AUSTROADS;
- (d) amended plans demonstrating the swept path of the waste collection vehicle and the manoeuvrability through the Site, must be designed in accordance with AS2890.1 – 2004 and AS2890.2 – 2002; and
- (e) the safety of vehicles and pedestrians accessing adjoining properties, where shared vehicle and pedestrian access occurs, is to be addressed.

It is considered that Condition B34 (a) has been addressed, and it is understood that DPIE are in agreeance.

## **Approved Plans and Documents**

The plans referred to in this assessment are detailed in **Table 1**.

**Table 1: Plans Used for Compliance Assessment** 

PROJECT / DRAWING NUMBER	PREPARED BY	ISSUE	DATE
17003 / AA03-0002	Billard Leece Partnership Pty Ltd	2	08-08-2019
17003 / SK 01 (Staff Carpark Modifications_SK 02)	Billard Leece Partnership Pty Ltd	2	22-08-2019

## **Traffic Engineering Response**

### Condition B34 (b)

'Wollondilly Shire Council – Design Specification 2016', outlines the controls for the design of parking and service areas. In particular, it is noted the design of parking areas must comply with AS/NZS 2890.1:2004.

It is proposed to provide 100 new car parking spaces, which have been designed in accordance with AS/NZS 2890.1:2004.

The car park compliance assessment for the existing staff carpark and proposed new car parking spaces within the site is provided in **Table 2**. The last column identifies the compliance of each design element; where compliance with Australian Standards is not achieved, further information is provided below.

Table 2: Staff Carpark and Proposed New Car Park AS/NZS 2890.1:2004 Design Compliance

Design Aspect	Australian Standards	Measurements on plans	Compliance
Car parking space length	5.4m (minimum)	5.4m (minimum)	Complies with AS/NZS 2890.1:2004
Car parking space width	2.4m (minimum)	2.4m (minimum)	Complies with AS/NZS 2890.1:2004

Design Aspect	Australian Standards	Measurements on plans	Compliance	
Accessible bay length	5.4m (minimum)	5.4m (minimum)	Complies with AS/NZS 2890.6:2009	
Accessible bay width	4.8m (with shared area)	4.8m (minimum)	Complies with AS/NZS 2890.6:2009	
Driveway Access Width (North of site)	3.0m to 5.5m (minimum)	5.67 (minimum)	Complies with AS/NZS 2890.1:2004	
Driveway Access Width (Into Staff Carpark)	3.0m to 5.5m (minimum) 4.6m (minimum)		Complies with AS/NZS 2890.1:2004	
Traffic Aisle Width	5.8m (minimum)	5.8m (minimum)	Complies with AS/NZS 2890.1:2004	
Blind Aisles	A minimum of 1 metre extension beyond the last parking space	1.0m (minimum)	Complies with AS/NZS 2890.1:2004	

## **Existing carpark**

42 existing car parking spaces within the staff car park are proposed to be retained. It is noted that the staff car park has been modified to comply with the AS/NZ 2890.1:2004 and AS/NZS 2890.6:2009. The modified plan is prepared by BLP and has been attached within sheet no.3 of Appendix A.

An evaluation of the carpark layout has been undertaken using the software package 'AutoTurn'. The assessment reviewed the ability for vehicles manoeuvring in and out of the car parking spaces, as provided in Appendix B. The swept paths have been based on the B99 vehicle (99th percentile vehicles) as outlined in the Australian Standards (AS/NZS 2890.1:2004).

The new access will operate as an entry-only access, with egress to be via the Wonga Road access at the rear of the site. Egress from the site via the bus zone egress on Argyle Street will be prohibited.

A turning bay is proposed to be provided along the western boundary of the staff carpark, to allow a B99 vehicle perform a three-point turn manoeuvrer, in the event that the car park is fully occupied. This is shown within drawing sheet no.3 of Appendix B.

Accordingly, it is considered that all car parking spaces have been designed in accordance with AS/NZS 2890.1:2004 and AS/NZS 2890.6:2009, and that the minimum requirement of 141 car parking spaces including four accessible spaces will be provided on-site.

#### Condition B34 (c)

Appendix E of the Traffic and Accessibility dated August 2018 indicates that the longest vehicle entering and leaving the site (from both Argyle Street and Wonga Road) is a 14.5m long bus. The 14.5 metre long bus is not expected to enter the site from the Wonga Road entrance, with the largest vehicle accessing this section of the site being an MRV.

Austroads' Design Vehicles and Turning Path Templates Guide in Section 3 identifies the dimensions and turning radius of such a 14.5 metre long rigid bus.

A swept path showing an MRV (Medium Rigid Vehicle as defined in AS 2890.2:2002) has been prepared demonstrating the appropriateness of the delivery area and access to accommodate this vehicle entering and exiting the site in a forward direction. This swept path was prepared on 5 June 2019, and it is understood that DPIE is satisfied with the arrangements.

#### Condition B34 (d)

Swept paths showing 9.45m long front/rear loading waste vehicles (understood to be the identified waste collection vehicle) have been prepared demonstrating the appropriateness of the delivery area and access to accommodate the vehicles entering and exiting the site in a forward direction. These 9.45m long vehicles are understood to be the largest vehicles accessing this part of the site.

These swept paths were prepared on 11 March 2019, and it is understood that DPIE is satisfied with the arrangements. These have been included for reference within Appendix B.

Drawing SK-01 (prepared by BLP) shows the access and loading area relative to the rest of the site, and notes that the delivery and loading facilities have been designed in accordance with both AS/NZS 2890.1:2004 and AS 2890.2:2002. The access has a minimum access / aisle width of 6.8 metres, allowing for simultaneous two-way vehicle movement.

#### Condition B34 (e)

In order to maintain the safety of the general public and reduce the potential of pedestrian and traffic conflicts, the following will be implemented as a measure to maintain safety around the site:

- Removal of vehicle access to staff car park on Argyle Street through bus area; and
- Upgrading / formalization of Wonga Road, to include a generous width footpath along the eastern side of Wonga Road, formal driveway laybacks and aprons, and car parking restrictions along the road.

Removal of car parking on Wonga Road will reduce the number of vehicle movements in the street, helping to create a safer pedestrian environment, particularly in peak hours where the number of pedestrians is increased.

It is not expected that the volume of pedestrians and vehicle accessing adjoining properties, especially during the AM and PM peak school hours, will be of significant levels. The two properties adjoining the site that have vehicular access in close proximity to the site are 468 Argyle Street, which accommodates a single dwelling, and 15 Wonga Road. The 15 Wonga Road property has an off-street car park that is accessed from Wonga Road, and access is controlled via a mechanical gate. The proposed footpath along Wonga Road is expected to provide sufficient width to accommodate the level of pedestrian activity expected during peak hours.

Appropriate signage will be erected around the site, to create awareness of increased pedestrian and vehicle activity during the AM and PM school peak hours.

# Conclusion

Stantec has assessed the car parking compliance assessment for Picton High School, Picton. Based on the above assessment, it is concluded that the car park layout generally meets the requirements of the Australian Standards for parking and vehicular access.

Yours sincerely

Ang, Desmond Traffic Engineer Tom Guernier Senior Traffic Engineer

Stantec Australia Pty Ltd

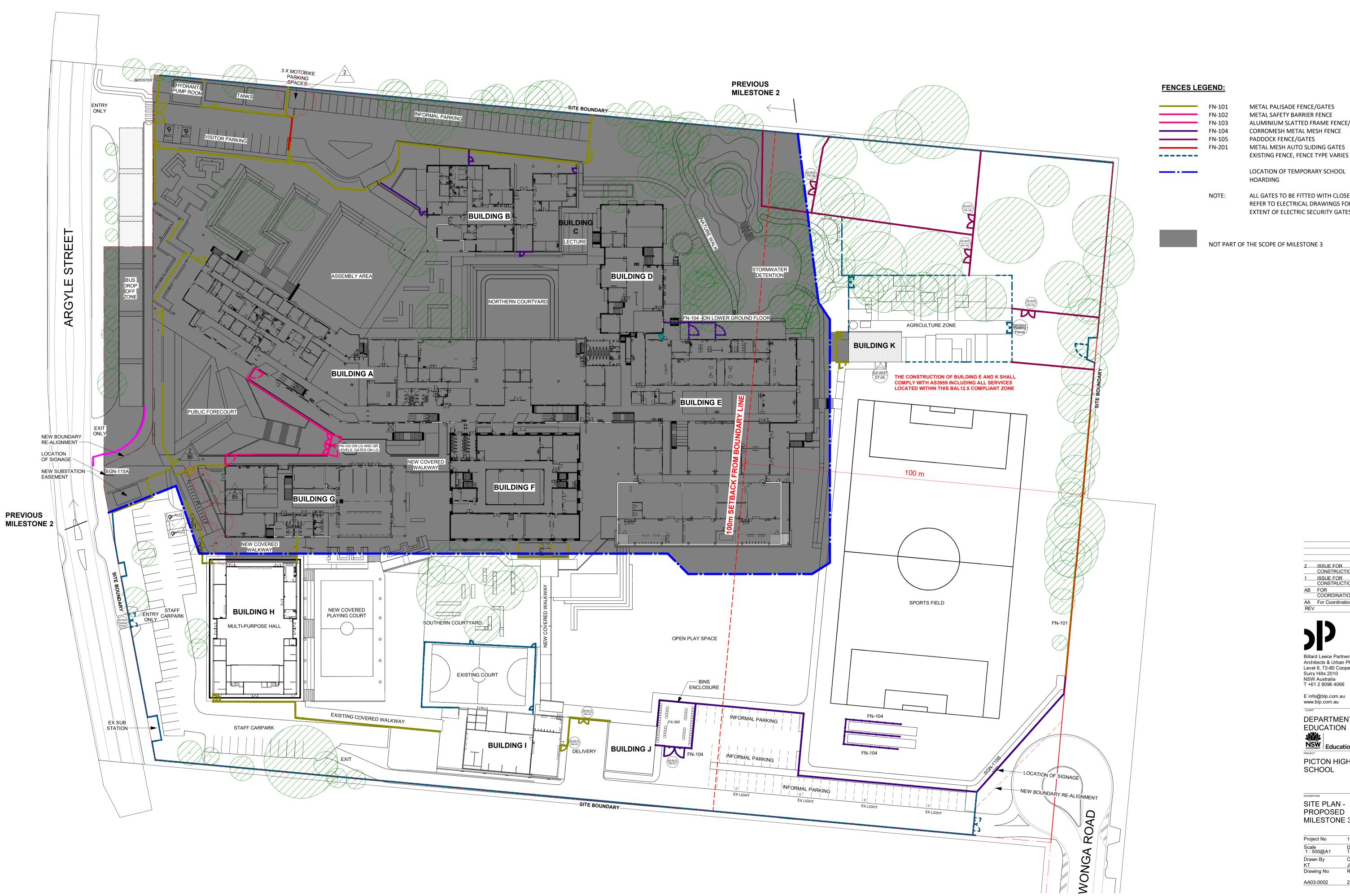
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Appendix A – Site Layout

Appendix B – Swept Paths

# Appendix A – Site Layout



METAL PALISADE FENCE/GATES METAL SAFETY BARRIER FENCE

ALUMINIUM SLATTED FRAME FENCE/GATES CORROMESH METAL MESH FENCE PADDOCK FENCE/GATES METAL MESH AUTO SLIDING GATES

> LOCATION OF TEMPORARY SCHOOL HOARDING

ALL GATES TO BE FITTED WITH CLOSERS. REFER TO ELECTRICAL DRAWINGS FOR THE EXTENT OF ELECTRIC SECURITY GATES.

NOT PART OF THE SCOPE OF MILESTONE 3

2 ISSUE FOR 08/05/19 CONSTRUCTION

1 ISSUE FOR 25/03/19 CONSTRUCTION AB FOR 27/02/19
COORDINATION
AA For Coordination 10/09/18

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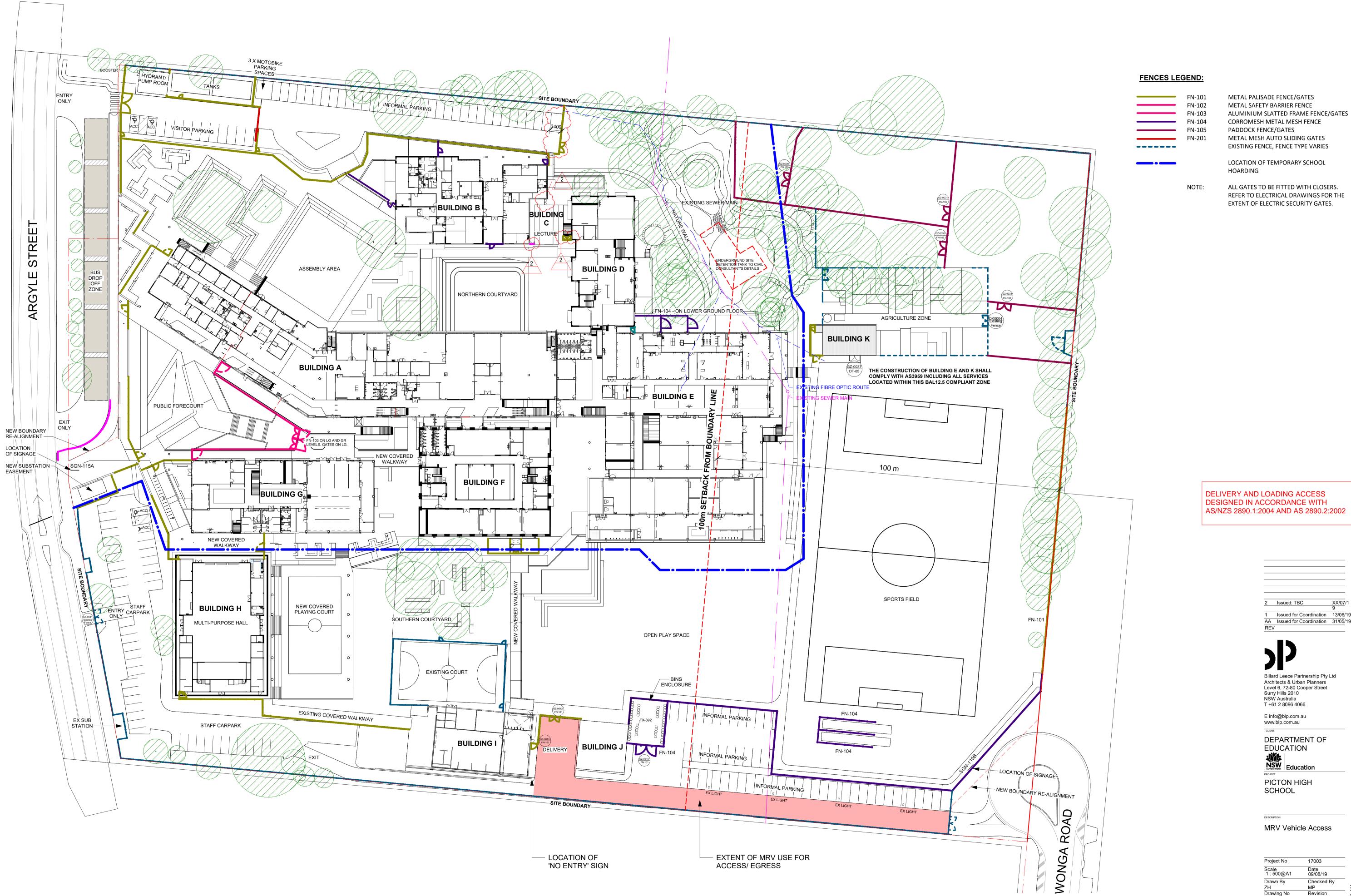
DEPARTMENT OF **EDUCATION** 

NSW GOVERNMENT Education

PICTON HIGH SCHOOL

SITE PLAN -PROPOSED MILESTONE 3

Project No Scale 1 : 500@A1 Drawn By KT Checked By Drawing No AA03-0002



2 Issued: TBC 1 Issued for Coordination 13/06/19
AA Issued for Coordination 31/05/19

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**DEPARTMENT OF EDUCATION** NSW SOVERNMENT Education

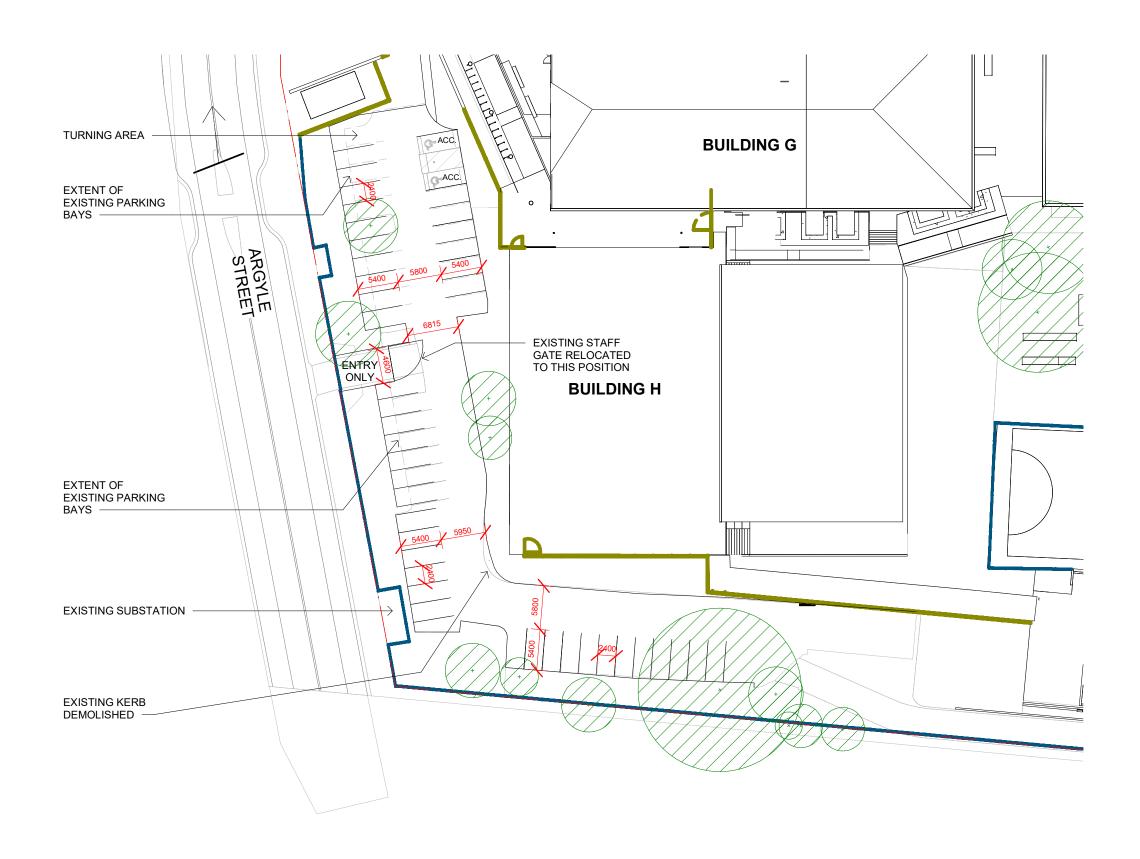
PICTON HIGH

SCHOOL

MRV Vehicle Access

Project No 17003 Scale 1 : 500@A1 Drawn By Checked By SK-01





2	Issued for Coordination	22/08/19		
1	Issued for Coordination	21/08/19		
Revision	Description	Date	Initial	Checked



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	Room Layout Sheet STAFF CARPARK MODIFICATIONS
LB00/tilloit	

Scale	Project No	Date Created
1:500@A3	17003	21/08/19
Drawing No		Revision
SK 01		2

22/08/2019 4:28:53 PM

# Appendix B – Swept Paths

