



Construction Traffic Management Plan

Revised Environmental Impact Statement

Armidale Secondary College

NBRS Architecture



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Revision Record

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1 Introduction

1.1 Background

TTM Consulting was engaged by NSW Department of Education to prepare a Construction Traffic Management Plan (CTMP) for the proposed Armidale Secondary College. The recommendations from this plan will be incorporated in the final CTMP prepared by the engaged contractor and implemented during the construction phases at the existing Armidale High School.

The demolition of existing buildings and construction of the new school will occur after all existing students and staff have been temporarily relocated to Duval High School. The CTMP is based on anticipated information, and advice supplied by NRBS Architecture.

1.2 Scope

As requested by School Infrastructure New South Wales (SINSW), the development of Armidale Secondary College have been divided into an early works package and a revised EIS.

The early works package will include majority of the demolition, repair and renovation of existing buildings, agriculture sheds, basketball courts and development of a new staff car park. The early works package will be under a separate planning pathway under Review of Environmental Factors (REF) approval and is not in the scope of this report.

The revised EIS stage will include demolition of existing structures like traffic islands and pedestrian line markings. It also includes demolition of hardscape, softscape and removal of trees. The scope of this report includes the Construction Traffic Management Plan for revised EIS only.

The extent of works for the early works package (separate planning pathway) and revised EIS is shown in Appendix A.

1.3 Site location

The subject site, Armidale High School, is located at Butler Street, Armidale NSW (see Figure 1-1). The subject site has vehicle access from Butler Street.

The site is predominantly surrounded by residential land uses with commercial activities taking place along Mann Street and other streets to the west of the site.



Figure 1-1: Aerial image of the site

1.4 Road network

The subject site has frontage to Butler Street. The roads surrounding the site are maintained and controlled by Armidale Regional Council except for Kentucky Street which is RMS controlled.

The road characteristics are shown in Table 1-1.

Table 1-1: Road characteristics

Road	Speed Limit	Lanes	Road Authority
Kentucky Street	50kph	2 (undivided)	RMS
Butler Street	50kph	2 (undivided)	Council
Lambs Avenue-Mann Street	50kph	2 (undivided)	Council
Barry Street	50kph	2 (undivided)	Council
Miller Street	50kph	2 (undivided)	Council

School zones are present along Kentucky Street, Butler Street, Hargrave Street, Mossman Street and Lambs Avenue-Mann Street with a maximum speed of 40kph. School zones near the school site are shown in Figure 1-2 and Figure 1-3.

A “Bus Zone” (8:00 am – 9:30 am and 2:30 pm – 4 pm, School Days) is present on Butler Street. Bus zone along Butler Street is shown in Figure 1-4.

“No Parking” (8:00 am – 9:30 am and 2:30 pm – 4 pm, School Days) areas are present along the school side of Butler Street allowing car drop-off and pick-ups. No Parking areas along Butler Street are shown in Figure 1-5.



Figure 1-2: School zone along Hargrave Street



Figure 1-3: School zone along Kentucky Street



Figure 1-4: Bus zone along Butler Street



Figure 1-5: No Parking area along Butler Street

1.5 Walking infrastructure

Walking infrastructure includes pedestrian footpaths, children's crossings and pedestrian crossings in the vicinity of the Armidale High School (see Figure 1-6).

There are two children's crossings present across Butler Street. There is a children's crossing near Butler Street – Mossman Street intersection and another one near Butler Street – Hargrave Street intersection. The crossings are shown in Figure 1-7.

The children's crossings will not be operational during constructions stages as the school will be closed to students. Duval High School will be operating as a combined school during this stage and accommodating Armidale High School students.

There will be some changes to the walking infrastructure with the redeveloped Armidale Secondary College. There will be new concrete pathways, kerb ramps, relocation of pedestrian crossings and kerb extensions. The proposed changes are shown in architectural plans in Appendix B.

A pedestrian crossing is present on Lambs Avenue which connects the school with the railway crossing. Another pedestrian crossing is present on Kentucky Street providing access to school from the southern boundary. Pedestrian crossings are shown in Figure 1-8 and Figure 1-9.



Figure 1-6: Pedestrian footpath along Butler Street



Figure 1-7: Children's crossing across Butler Street



Figure 1-8: Pedestrian crossing on Lambs Avenue



Figure 1-9: Pedestrian crossing on Kentucky Street

1.6 Objective of this plan

This objective of this plan is to provide a broad strategy for traffic management issues. It aims to ensure safe and efficient movement of vehicles and pedestrians onto, off and around the site, whilst minimising impacts of the construction activities on the public domain and road network. A detailed traffic management plan will be developed by the engaged contractor.

1.7 Limitations of this plan

The CTMP developed by TTM only considers the impact of works on traffic and pedestrians. As the project is in its preliminary stages, the CTMP is based on anticipated information, and advice supplied by NRBS Architecture

2 Construction Traffic Management Plan

2.1 Duration of works and construction schedule

The duration of construction activities will be subject to the contractor's advice once it is appointed for the project. The daily/ weekly schedule of the construction work will be subject to approval under State Significant Development (SSD) requirements.

2.2 Construction permits

2.2.1 Works zone

A works zone is not required on the frontage of the site at this stage. A separate application will be submitted if it eventuates that a works zone is desirable to facilitate the construction.

2.2.2 Other Permits

Any permits required by Council or RMS (typically road opening permits) would be part of the contractor's traffic management plan.

2.3 Construction vehicles

The majority of the works for the revised EIS are minor demolition works as shown in Appendix A. Various types of trucks will access the site during the demolition phase. Some of these larger vehicles will be heavy rigid vehicles and a truck and dog. Although the truck and dog is larger in size (19.0meter) as compared to a heavy rigid vehicle (12.5meter), vehicle accessibility is determined by a heavy rigid truck. This is because a heavy rigid vehicle has a larger turning radius thus requiring more space. However, the proposed construction vehicle routes as shown in Figure 2-1 will be able to accommodate the construction vehicles.

2.4 Vehicle movement plan

Vehicle movements during construction will be required to:

- Comply with relevant environment approvals.
- Comply with traffic control plans
- Minimise the number of vehicle movements by optimising materials loads where possible.
- Enter and exit the site in a forward direction.
- Promote safe driving principles.
- Evaluate the need for temporary traffic control.
- Plan on-site vehicle movements.
- Avoid or minimise truck reversing and three point turns on site.

The proposed vehicle movement routes are shown in Figure 2-1.

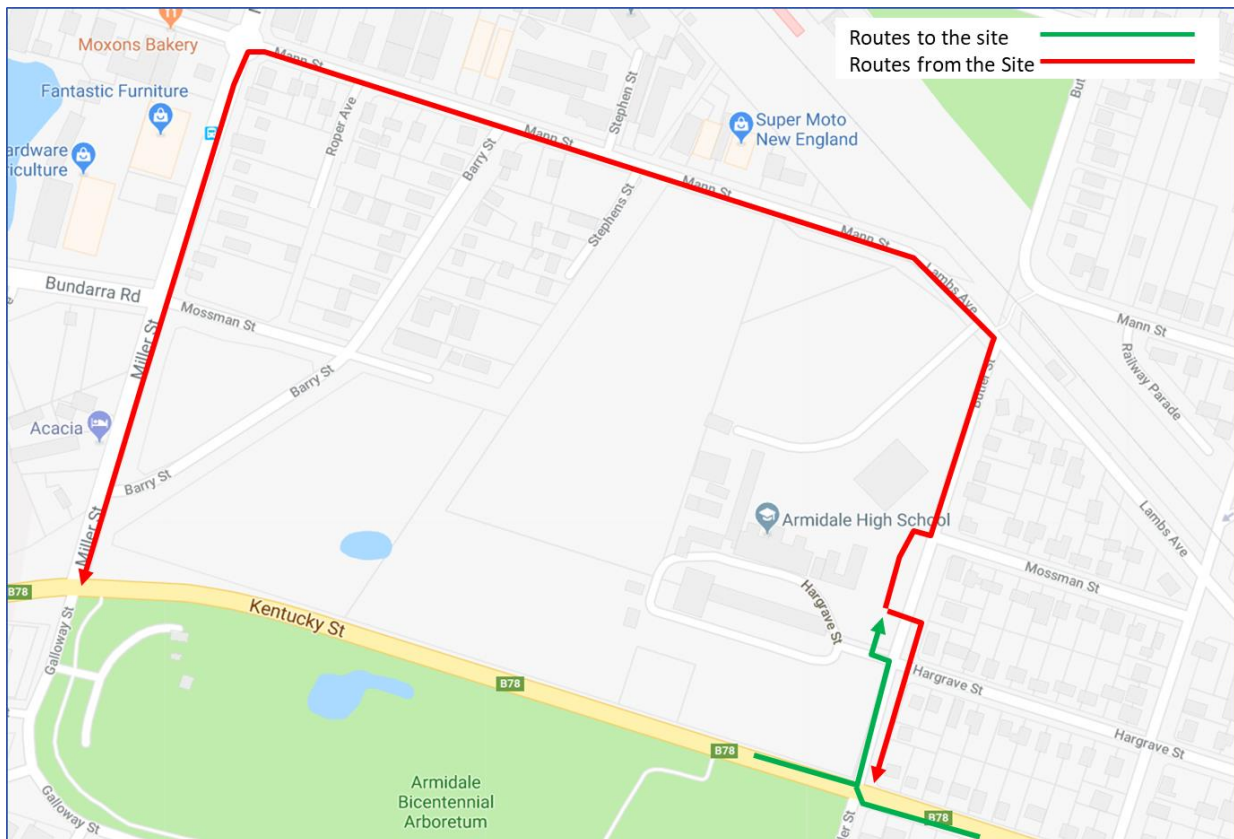


Figure 2-1: Construction vehicle routes

It is proposed that construction vehicles will:

- Arrive at the site traveling from Kentucky Street onto Butler Street. Enter the site through the existing entry off Butler Street.
- Unload and load within the site boundary.
- Depart from the site via two routes:
 - Travelling along Butler Street and Lambs Avenue, then turn left onto Miler Street and exit on Kentucky Street.
 - Heading south on Butler Street to Kentucky Street.

Figure 2-2 presents the proposed site plan and the location of the existing site entries.

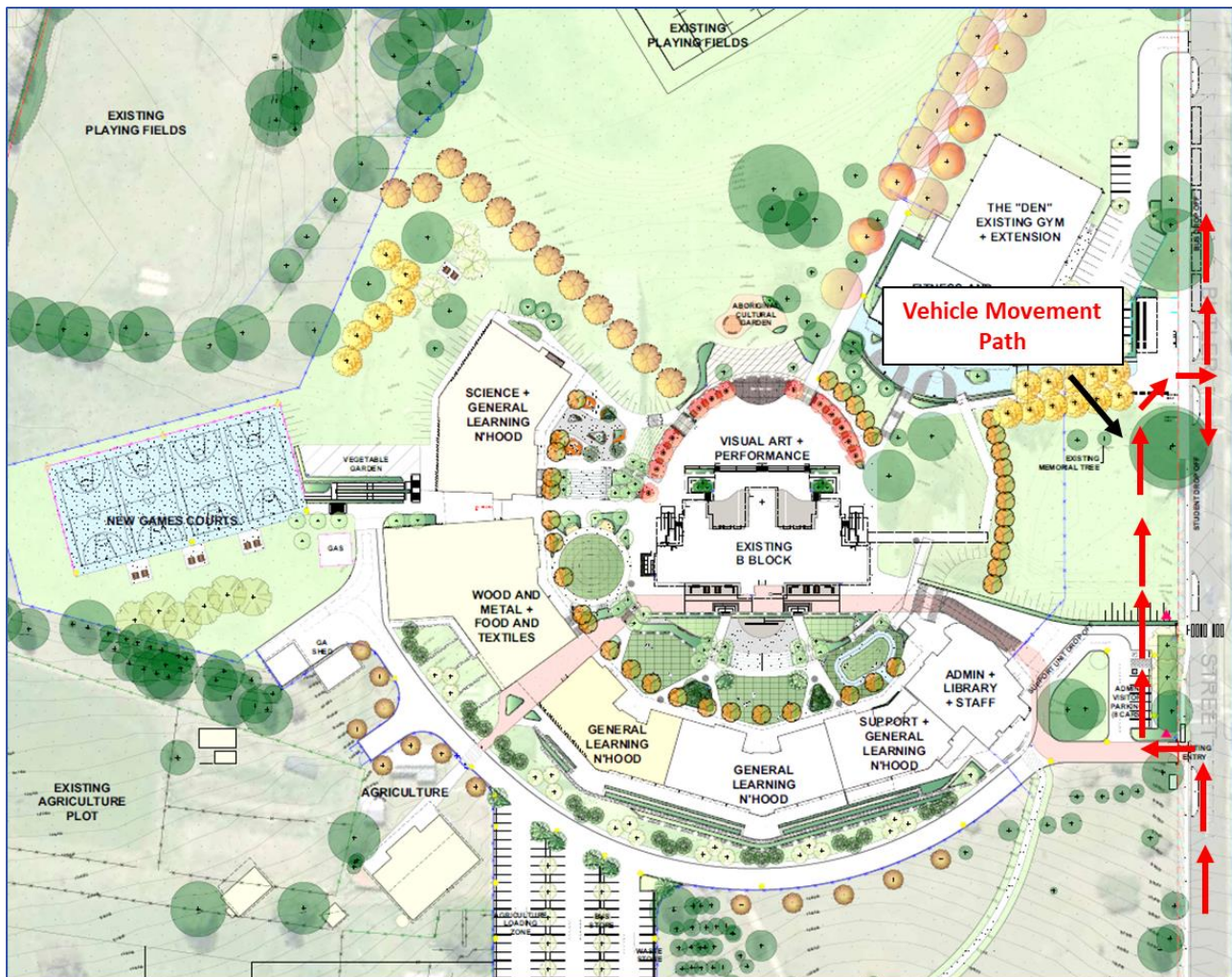


Figure 2-2: Proposed site plans and vehicle movement path

The proposed construction access routes satisfy the requirements for anticipated access movements.

2.5 Construction program

The construction program provides a tentative schedule of construction activities which will be taking place for the proposed development. A complete and accurate construction program can only be developed once a contractor has been appointed. A tentative schedule of construction activities for Armidale Secondary College is presented in Table 2-1.

Table 2-1: Tentative construction program

Construction Activity	Approximate Duration
Site set up	Early 2019/ Mid 2019
Construction	18 months
Decanting works	2 months
Armidale Secondary College operational	Early 2021

2.6 Demolition Works

The demolition works will be inside the school boundary and along the eastern boundary of the school along Butler Street and Lambs Avenue. The demolition works will be carried under a separate works zone. The demolition works will have negligible impacts on the through traffic on Butler Street or Lambs Avenue. There will be minimal pedestrian activity as the school will not be operational during this period.

2.7 Construction vehicle impacts

Construction vehicle activities of almost all developments are generally within three stages. These include demolition/excavation, material delivery and concrete pouring. The exact number of construction vehicles will be provided by the contractor who gets hired for construction works.

Based on our previous professional experience it is expected that approximately five trucks (truck and dog) could be accessing the site per day during demolition phase to remove the debris material.

The existing and future traffic assessment of Armidale Secondary College has been conducted in a separate Traffic Transport and Accessibility Impact Assessment Report. The results showed that the current intersections configuration is adequate for the existing and future traffic demands for the proposed development. Based on the traffic assessment results, the addition of construction vehicles will not adversely affect the road intersections in terms of capacity and delay.

Additionally, there are no major construction activities anticipated for any developments surrounding the site. There will not be any cumulative construction vehicle traffic impacts for the proposed development.

2.8 Pedestrian management

During the various construction stages, pedestrian movements around the site will be maintained as much as possible. Boundary fence will be used to limit pedestrian access to the site.

2.9 Materials Handling

Unloading and loading is proposed to occur within the school boundary.

2.10 Site Fencing

The construction site will be enclosed by fencing/hoarding to prevent access to the property and to protect the public / roadway from construction activities.

2.11 Employee Parking

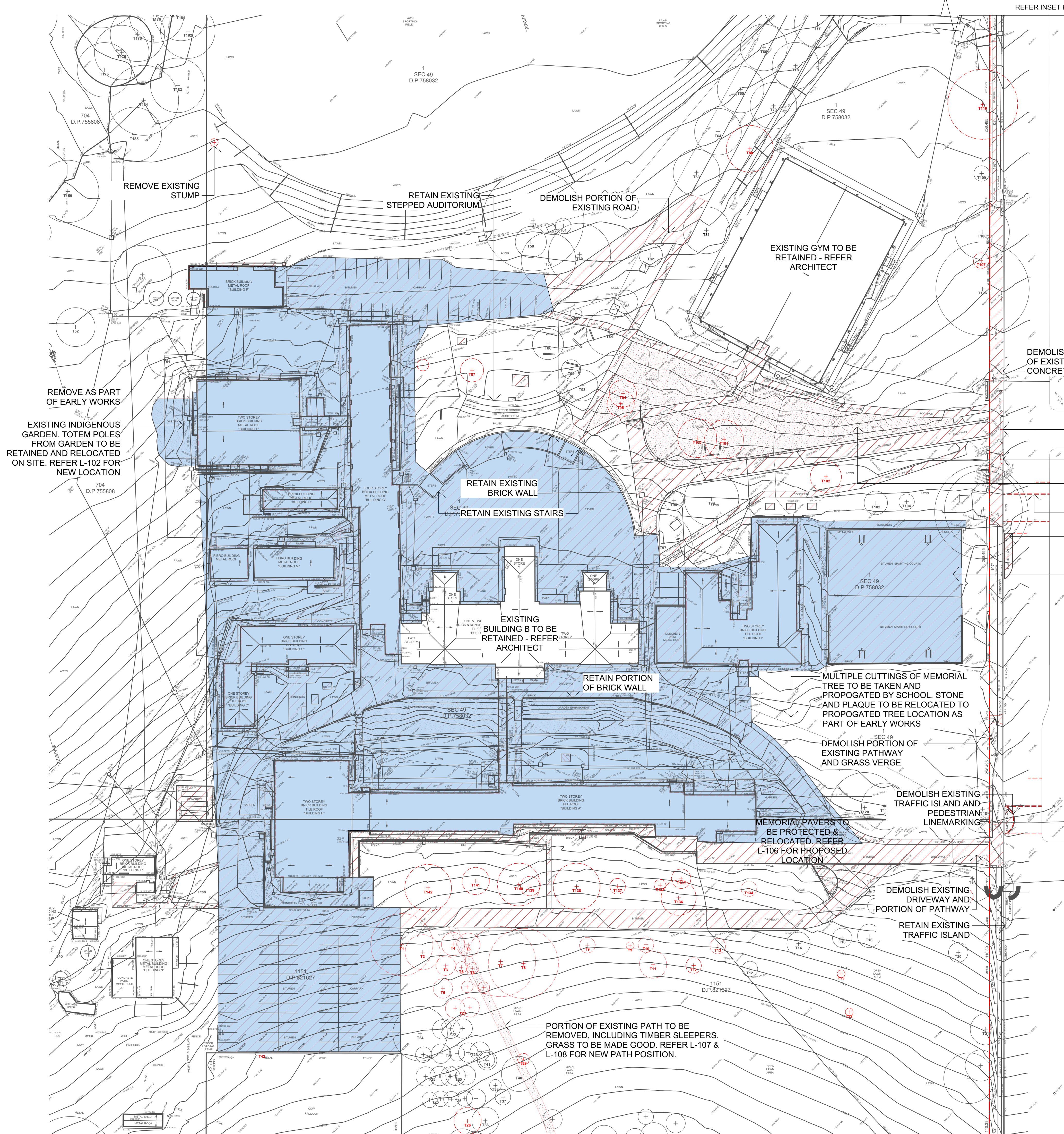
Employees, tradespeople and small construction vehicles will park on site as many as possible. Some workforce might park on street. However, this will not have any detrimental impacts as shown by the results of traffic analysis. There will be on-street parking opportunities as the school will not be operational.

2.12 Driver Code of Conduct

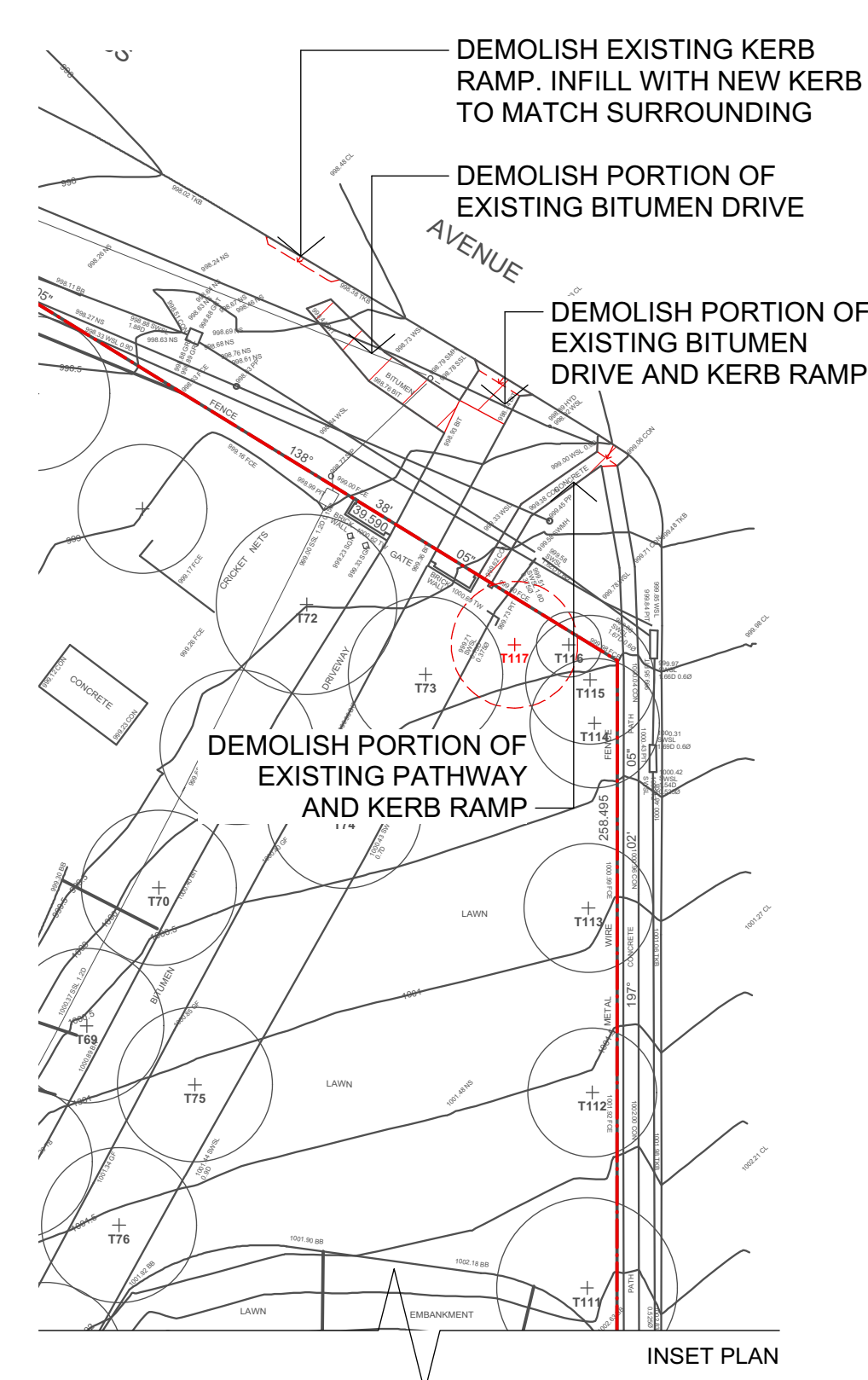
Management of vehicular access to and from the site is essential to maintain the safety of the general public as well as the labour force. The following code is to be implemented as a measure to maintain safety within the site:

- Utilisation of only the designated transport routes.
- Drivers to maintain a sufficient distance from the temporary barriers that will be implemented around trees that form part of the endangered plant community.
- Construction vehicle movements are to abide by finalised schedules as agreed by the relevant authorities.

Appendix A Landscape Demolition Plan



REFER INSET PLAN



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LANDSCAPE

LEGEND

- SITE BOUNDARY
- (T) TREES TO BE REMOVED
- (R) TREES TO BE RETAINED AND PROTECTED AS PER AS4970-2009
- [---] STRUCTURE TO BE DEMOLISHED
- [HATCH] HARDSCAPE SURFACE TO BE DEMOLISHED
- [DOTS] SOFTSCAPE SURFACE TO BE DEMOLISHED
- [BLUE] EXTENT OF DEMOLITION WORKS SUBJECT TO SEPARATE PLANNING PATHWAY.
- [WHITE] THEY DO NOT FORM PART OF THIS PROPOSAL

NOTE:
1. REFER TO ARCHITECT FOR BUILDING DEMOLITION
2. REFER TO L-004 FOR FENCING PLAN & FENCES TO BE DEMOLISHED

DEMOLISH EXISTING KERB RAMP

DEMOLISH EXISTING KERB RAMP

REMOVE EXISTING GARDEN AREAS

REMOVE EXISTING PEDESTRIAN LINEMARKING

DEMOLISH EXISTING TRAFFIC ISLAND

EXISTING SPORTS COURTS DEMOLISHED AS PART OF EARLY WORKS

TREE REMOVAL SCHEDULE

NO.	BOTANICAL NAME	RETENTION VALUE	REMARKS
T1	FRAXINUS EXCELSIOR	HIGH	COMPENSATORY FRAXINUS SP. PROPOSED
T2	CEDRUS DEADARA	HIGH	
T3	CEDRUS DEADARA	HIGH	
T4	EUCALYPTUS CRENULATA	MEDIUM	
T5	FRAXINUS EXCELSIOR	MEDIUM	COMPENSATORY FRAXINUS SP. PROPOSED
T6(x3)	EUCALYPTUS SPP.	MEDIUM	
T7	QUERCUS ROBUR	HIGH	COMPENSATORY QUERCUS ROBUR PROPOSED
T8	QUERCUS ROBUR	HIGH	COMPENSATORY QUERCUS ROBUR PROPOSED
T9(x2)	PISTACIA CHINENSIS	LOW	COMPENSATORY PISTACIA CHINENSIS PROPOSED
T10	EUCALYPTUS DALRYMPLEANA	MEDIUM	
T11	PISTACIA CHINENSIS	MEDIUM	COMPENSATORY PISTACIA CHINENSIS PROPOSED
T12	QUERCUS ROBUR	MEDIUM	COMPENSATORY QUERCUS ROBUR PROPOSED
T13	PISTACIA CHINENSIS	MEDIUM	COMPENSATORY PISTACIA CHINENSIS PROPOSED
T15	LIQUIDAMBAR STYRACIFLUA	LOW	UNSTABLE & MOVING IN GROUND
T18	FRAXINUS CLARET ASH	LOW	DEAD TREE
T22	LIQUIDAMBAR STYRACIFLUA	MEDIUM	
T23(x2)	CASUARINA	MEDIUM	
T26	CASUARINA	LOW	SPLIT AT UNION WITH SIGNIFICANT DAMAGE
T39(x2)	EUCALYPTUS SPP.	LOW	DEAD TREE
T80	ULMUS PROCERA	LOW	DEAD TREE
T87	FRAXINUS CLARET ASH	LOW	COMPENSATORY FRAXINUS SP. PROPOSED
T94	ULMUS PROCERA	MEDIUM	POOR DEVELOPMENT/HABIT. CO-DOMINATE STEM
T95	ULMUS PROCERA	MEDIUM	POOR DEVELOPMENT/HABIT. CO-DOMINATE STEM
T100	CUPRESSUS SPP.	LOW	STRUCTURAL DEFECT AT BASE
T101	CUPRESSUS SPP.	LOW	STRUCTURAL DEFECT AT BASE
T102	CUPRESSUS SPP.	LOW	STRUCTURAL DEFECT, CAVITY AT BASE
T107	CUPRESSUS SEMPERVIRENS	MEDIUM	
T110	POPULUS ALBA	LOW	CAVITY AT BASE, REMOVAL FOR SAFETY REASONS
T117	POPULUS LOMBARDY	LOW	POOR CONDITION, DIEBACK IS MORE THAN 20%
T134	QUERCUS ROBUR	MEDIUM	COMPENSATORY QUERCUS ROBUR PROPOSED
T135	EUCALYPTUS CRENULATA	LOW	
T136	EUCALYPTUS CRENULATA	LOW	PARASITE VINE PRESENT
T137(x2)	PISTACIA CHINENSIS	MEDIUM	COMPENSATORY PISTACIA CHINENSIS PROPOSED
T138	QUERCUS ROBUR	HIGH	COMPENSATORY QUERCUS ROBUR PROPOSED
T139	QUERCUS ROBUR	MEDIUM	COMPENSATORY QUERCUS ROBUR PROPOSED
T140	CUPRESSUS	MEDIUM	
T141	QUERCUS PALUSTRIS	MEDIUM	
T142	EUCALYPTUS MELLIODORA	MEDIUM	CAVITY AT BASE, CO-DOMINATE STEM

REFER ARBORIST REPORT FOR FURTHER DETAIL

Issue			
No.	Date	Description	Chkd
A	08/05/2018	25% SCHEMATIC DESIGN	AS
B	15/06/2018	DA DRAFT	AS
C	16/06/2018	ISSUE FOR INFORMATION	AS
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F	06/07/2018	DA DRAFT	AS
G	28/09/2018	DA	AS
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Project
ARMIDALE SECONDARY COLLEGE
at
BUTLER STREET, ARMIDALE, NSW, 2350
for
NSW Department of Education

Drawing Title
Landscape Demolition Plan

Date 16/10/2018

Scale 1:500 @ A1 1:1000 @ A3
0 5 10 15 20 25 30m

Drawing Reference 17352-NBRS-L-002

Rev I

Appendix B Proposed Architectural Plans

LANDSCAPE DESIGN STATEMENT

The landscape design has been undertaken in conjunction with the Architects, Heritage Architects and consulting team in order to ensure an integrated design is achieved that respects the existing site qualities the retained heritage building and responds to the new buildings and their uses.

Careful consideration has been given to the selection of materials and finishes in order to reinforce a sense of place and character that is Armidale.

SITE ANALYSIS

The existing Armidale High School site is located to the south west of the Armidale centre and is bounded by residential properties to the east and west, open park land and the Armidale Bicentennial Arboretum to the southwest and south and mixed use commercial area to the north together with the north west railway line.

Landscape Character

The site enjoys expansive open space areas to the north, west and south of the main school buildings. These spaces incorporate agriculture plots (with dam), sports fields, the Oxley Wetland and unoccupied areas of grass and trees. The site character is consistent with the rural character of areas to the south west of the school and that of the adjoining arboretum.

Topography

The site enjoys an elevated position with cross fall generally from south to north with a change in level of approximately 27.0 metres. The site has a high point to the south near the corner of Kentucky and Butler Streets with an RL of approximately 1033. The site low point is to the north east at the corner of Butler Street and Mann Street with an approximate RL of 1005. The site enjoys views north to Mt Duval. The land continues to rise to the south through the arboretum.

Overlandflow

An overland flow path crosses the site to the west connecting to the wetland area of the north. Overland flows enter the site from the arboretum and connect to the agriculture plot dams. A distinct flow path then travels to the north between sports fields before joining the wetland.

Soils

Due to the size of the soils types vary across the site. Soils on sedimentary rock being found on upper slopes are generally well drained and light in colour. With loamy alluvium soils in low lying and wetland areas, being poorly drained and dark in colour.

Vegetation

The vegetation found on the site reflects the developed nature of the locality and typical character of the Armidale area with a mix of native and cultural planting. Those site areas less developed through the school's history are more likely to contain some remnant native tree species, such as the agricultural plots and open space area near the wetlands. Introduced species are found throughout the site and it boundaries but are more prevalent around existing school buildings and to the formal avenue from Mann Street. Please refer to the Flora And Fauna report as prepared by Mr David Carr from stringybark Ecological for further detail on species and locations of significant vegetation including two areas of remnant native grass land.

Climate

The site enjoys and northerly aspect with favourable sun exposure. The open and undeveloped nature of the area to the west means unfavourable hot summerly winds and cold winter winds impact the site in a significant way.

Access

The main school vehicle and pedestrian entries occur off Butler Street to the east. Bus pickup and drop off also occurs on Butler Street A pedestrian access point occurs on Kentucky Street, where informal vehicle pickup occurs.

LANDSCAPE DESIGN OBJECTIVES

The following landscape design objectives have been developed:

IDENTITY

- ? Establish a strong identity and sense of place through an understanding of the sites local context
- ? Emphasise the sites natural assets
- ? Ensure the landscape design is well integrated with the architectural proposals

COMMUNITY

- ? Ensure the landscape design presents a welcoming, inclusive and safe environment
- ? Understand the site uses that can be enjoyed by the broader school community, visitors and community groups

LEARNING

- ? Maximise outdoor learning opportunities
- ? Provide spaces that are pleasant to be in year-round considering, sun, shade, and wind protection

SOCIAL INTERACTION

- ? Provide spaces that encourage social interaction for students, staff and community

ACTIVE and PASSIVE USES

- ? Provide for active and passive uses with clear definition between the two
- ? Active play areas for health, team sport and learning
- ? Passive use areas for group work, retreat and quiet space for individual learning

LOW MAINTENANCE

- ? Create a sustainable landscape to assist with thermal comfort, water use and considered material selections
- ? Select plants that are known to thrive under local conditions and have low maintenance requirements
- ? Select robust and hardy materials that are fit for purpose

DESIGN PRINCIPLES

Taking into account the analysis of the site and the landscape design process undertaken in conjunction with the Architects the Design Principles of the State Environmental Planning Policy (Education and Child Care Facilities) 2017 have been respected and addressed as outlined below:

Context, built form and Landscape

Preservation of the semi-rural / rural context of the site has been maintained with the development and new landscape works being concentrated to the sites centre, or areas currently developed. The landscape around the retained heritage building, has been undertaken in a sympathetic manner. With new planting and features respecting the original school building, preserving views and access.

Significant areas of open space throughout the school remain undisturbed, with natural features to be preserved.

Shade and shelter from deciduous trees is provided for the new buildings. A range of native cultural tree planting is in place where deciduous trees are used adjacent to new buildings providing summer shade and winter sun access, to open space areas and building facades.

Decorative shrubs, grasses and groundcovers will occur around Block B as a resource for visual arts students.

Pockets of endemic native shrubs, grasses, groundcovers and trees will occur throughout the school as a resource for learning (science and visual arts).

Existing streetscape qualities and boundary conditions have been preserved. Where possible new 2.1 metre high security fencing has been well setback from the school boundary. A low height fence to the school boundary will remain.

The existing RB White Memorial Gates and avenue are to be retained and enhanced with landscape improvements to the entry gates and missing trees re-instated to the avenue.

Local community groups have been consulted in relation to the proposed new school works. The landscape design has accommodated a new indigenous garden area to the north. The final location and arrangement of the indigenous garden will be determined by the local community in conjunction with the school and students. It is anticipated the garden will incorporate a yarning circle, native plant species including bush tucker species, relocated grass trees (retrieved from the Armidale school site) as well as relocated items from the both school sites such as painted totem poles, rocks and plaques.

Sufficient Efficient and Durable

The landscape design is to incorporate materials and fixtures that are robust, fit for purpose, readily maintainable and have a proven track record of use within a school environment.

Durable coloured concrete pavements and asphalt are proposed throughout the campus.

Plant species have been selected with the knowledge of their suitability to local site conditions.

Existing overland flow paths between dams have been retained.

All landscape areas are into deep soil.

Deciduous tree planting in front of north facing facades provides summer shading (cooling) of buildings and pavements and allows winter sun access for warming.

Accessible and Inclusive

The arrangement of paths, stairs and ramps has been undertaken in a manner to accommodate direct movement between key site areas and facilities. Circulation paths are clearly defined and distinct to areas of play, passive recreation or other use, through changes in materials and colour. An inclusive play area adjoins the support unit, incorporating a bike path, garden areas and sensory planting in consultation with stakeholders.

New fencing to the surrounds of the existing Den has been undertaken in a manner that maintains a sense of openness and access to this community facility. New carparking adjacent to this facility will cater for community use outside of school hours.

Security fencing has been setback from street frontages to retain the quality of openness and inclusiveness.

A hierarchy of spaces has been created to provide a variety of spaces and uses, for whole of school assembly, to outdoor performance, to group activity, and spaces where individuals can feel comfortable but remain connected.

Health and Safety

Readily accessible, flexible and inviting landscape open spaces will contribute the health of the students and users by providing spaces for learning, passive and active recreation. Each neighbourhood has a generous outdoor area directly access from the new building. Ease of access to new sports courts and the retained sports fields has been maintained.

The landscape design seeks to provide well defined circulation, play and gathering spaces, that are open, legible and welcoming.

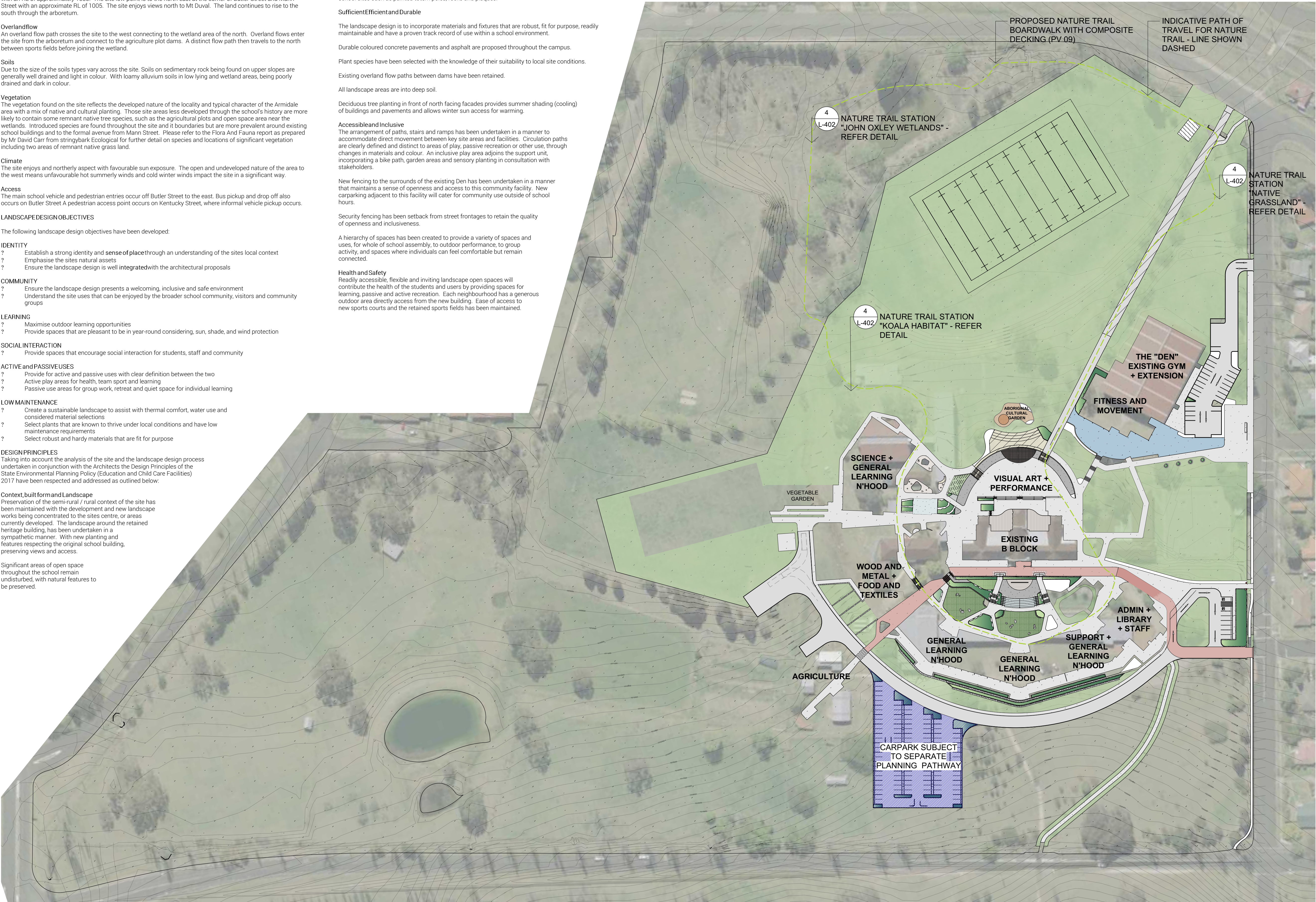
Change in site levels have been mitigated by utilising terraced walls and inclined gardens. Planting arrangements will avoid creating places of concealment by selecting low growing shrubs, grasses and groundcovers and having tree canopies maintained above head height.

Existing balustrading and stairs that are retained are to be upgrade to meet code requirements with removal of redundant or missing fittings and installation of new including handrails, stair nosing's and tactile markers.

Amenity

The sites main landscape spaces enjoy a northerly aspect. The student will enjoy an outlook to the retained heritage building Block B, as well as general district an open space views. Summer shade will be provided by tree planting and covered outdoor areas. The use of deciduous tree planting will allow students to enjoy winter sun access. The use of natural materials including local rocks, endemic native trees, shrubs, grasses and groundcovers will enhance the outdoor spaces. Year round interest will occur in the landscape with plants form, foliage and floral habits changing through the seasons.

New avenue tree planting aligns to Mount Duval 'Dunbandji' and is a symbolic connection to the Duvall High School site.



The built form will protect students from the unfavourable cold south westerly winter winds.

The school location does not require any mitigation measures against such things as noise.

Whole of Life, Flexible and Adaptive

The landscape design has taken direction from Flora and Fauna reporting, Ecological studies and an analysis of site conditions. The landscape will incorporate native canopy trees and introduce new native shrubs, grasses and groundcovers, to the benefit of local flora and fauna.

Outdoor learning spaces provide sufficient area for flexible use and installation for future facilities / features.

Aesthetics

New and existing buildings are to be complemented and enhanced with landscape areas presenting and integrated solution. Building facades are softened by new tree planting. Open spaces are given appropriate scale through new planting.

Materials have been selected to give context to locality through the use of local granite rocks, coloured concrete and a range of native and ornamental trees, shrubs, grasses and groundcovers typical of the Armidale area.

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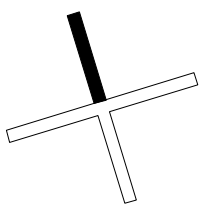
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ARMIDALE SECONDARY COLLEGE

at
BUTLER STREET, ARMIDALE, NSW, 2350

for
NSW Department of Education

Drawing Title
Proposed Landscape Site Plan



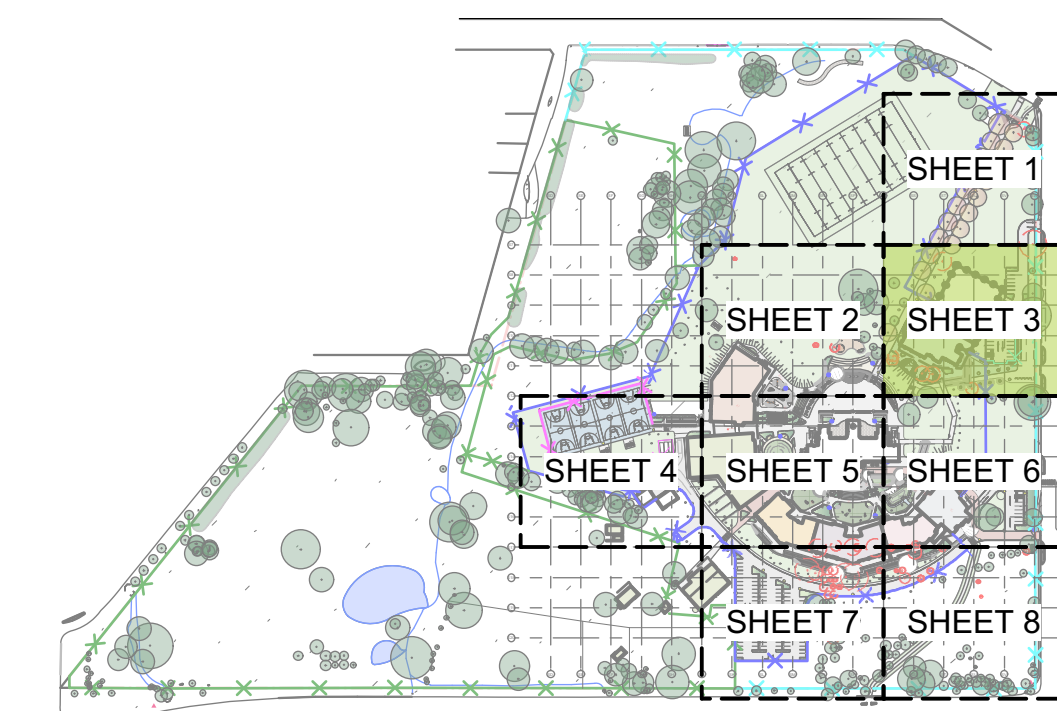
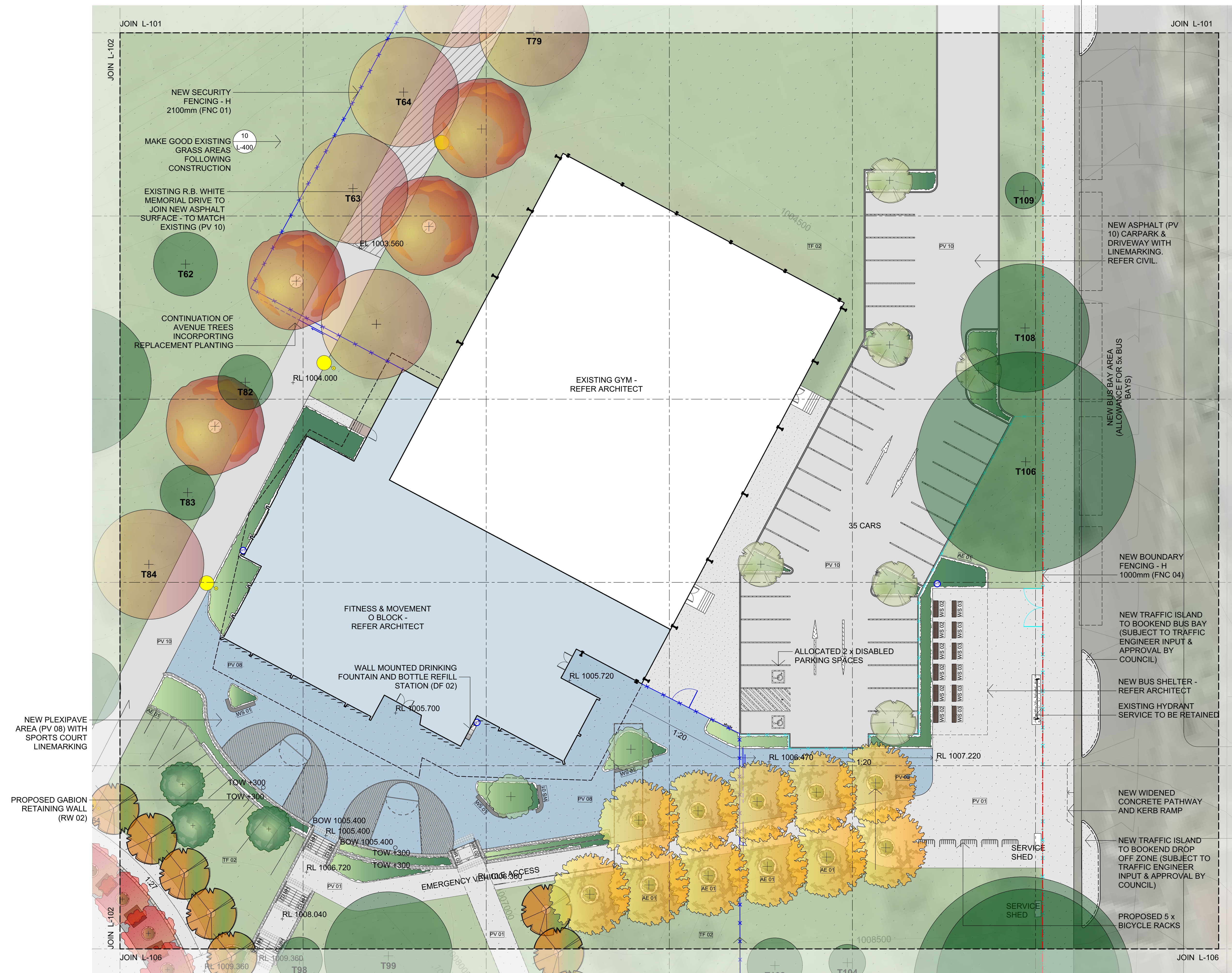
Date 16/10/2018

Scale 1:1000 @ A1 1:2000 @ A3

0 10 20 30 40 50 60m

Drawing Reference 17352-NBR-S-L-003

Rev I



Issue			
No.	Date	Description	Chkd
A	08/05/2018	25% SCHEMATIC DESIGN	AS
B	15/08/2018	DA DRAFT	AS
C	18/06/2018	ISSUE FOR INFORMATION	AS
D	22/06/2018	DA DRAFT	AS
E	29/06/2018	DA DRAFT	AS
F	06/07/2018	DA DRAFT	AS
G	28/09/2018	DA	AS
H	15/10/2018	EIS ISSUE	AS
I	16/10/2018	EIS ISSUE FOR REVIEW	AS

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Landscape Architect

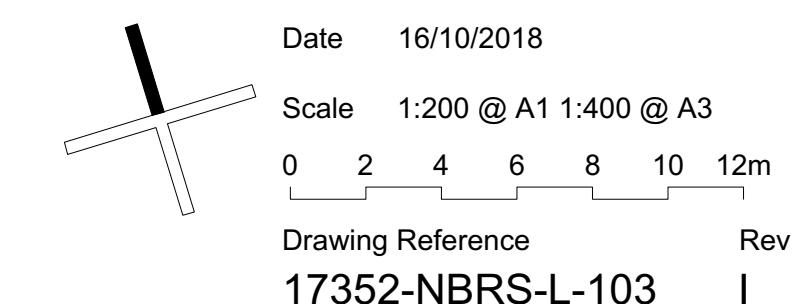
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LANDSCAPE

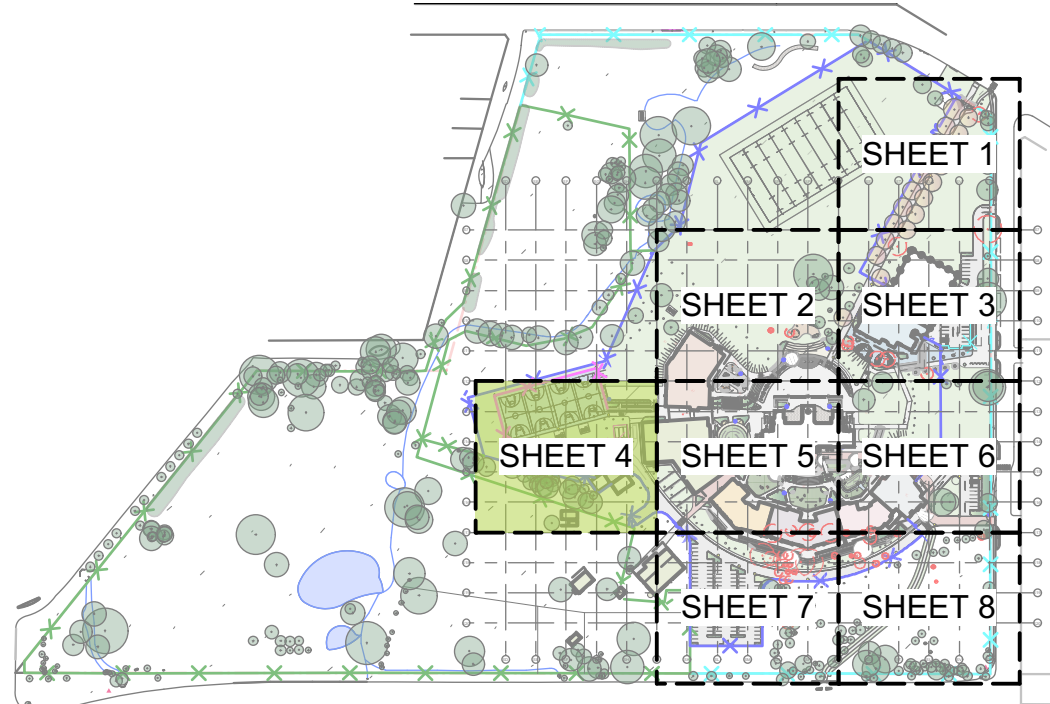
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for
NSW Department of Education

Drawing Title
Landscape Hardscape & Materials Plan - Sheet Three





Issue				
No.	Date	Description	AS	Chkd
A	08/05/2018	25% SCHEMATIC DESIGN	AS	
B	15/06/2018	DA DRAFT	AS	
C	18/06/2018	ISSUE FOR INFORMATION	AS	
D	22/06/2018	DA DRAFT	AS	
E	29/06/2018	DA DRAFT	AS	
F	06/07/2018	DA DRAFT	AS	
G	28/09/2018	DA	AS	
H	15/10/2018	EIS ISSUE	AS	
I	16/10/2018	EIS ISSUE FOR REVIEW	AS	

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at

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for

NSW Department of Education

Drawing Title

Landscape Hardscape & Materials Plan - Sheet Four

Date 16/10/2018

Scale 1:200 @ A1 1:400 @ A3

0 2 4 6 8 10 12m

Drawing Reference 17352-NBRS-L-104

Rev I

NEW TREE PLANTING
& TABLE & BENCH
SETTINGS

WALL MOUNTED
DRINKING FOUNTAIN
AND BOTTLE REFILL
STATION (DF 02)

REFER ARCHITECT
FOR RAMP & STAIR
ARRANGEMENT

ADDITION TO
EXISTING WALL TO
MATCH EXISTING
MATERIAL, DEPTH
& HEIGHT

EXISTING PORTION
OF BRICK WALL TO
BE PROTECTED &
RETAINED

NEW RETAINING
WALL (RW 01) WITH
BALUSTRADE (BS
01) TO TOP OF WALL

NEW BIKE TRACK
ROUTE WITH
PLEXIPAVE
SURFACE (PV 08) &
LINEMARKING

FEATURE GRANITE
BOULDERS (GB 01)

NEW MOUNDED
SYNTHETIC TURF
AREA (TF 01). REFER
DETAIL

SEASONAL GRAPHIC
IN CONCRETE. REFER
DETAIL

EXISTING ROAD TO BE
RETAINED AND PROTECTED
FOR EMERGENCY VEHICLE
ACCESS

SEASONAL GRAPHIC
IN CONCRETE
REFER DETAIL

BUILDING B -
REFER ARCHITECT

NEW LIFT & STAIRS -
REFER ARCHITECT

ADMIN. LIBRARY, STAFF STUDY &
LOUNGE - REFER ARCHITECT

SUPPORT UNIT &
NEIGHBOURHOOD 1 - REFER
ARCHITECT

SENSORY
SPACE

NEW GABION RETAINING WALL
(RW 02). REFER STRUCTURAL
ENGINEER & SPEC

NEW ZEBRA CROSSING LINEMARKING
TO PEDESTRIAN ENTRY
NEW SLIDING MOTORISED GATE TO MATCH
SECURITY FENCING (FNC 01)

PAVING (PV 06) TO EXPRESS LINE
OF ORIGINAL CARRIAGEWAY

EXISTING TRAFFIC ISLAND
TO BE RETAINED

NEW BOUNDARY
FENCING - H
1000mm (FNC 04)

EXISTING CONCRETE PATH
AND GRASS VERGE TO BE
RETAINED

MAKE GOOD EXISTING
GRASS AREAS
FOLLOWING
CONSTRUCTION

NEW TRAFFIC ISLAND TO
BOOKEND DROP OFF ZONE
(SUBJECT TO TRAFFIC
ENGINEER INPUT & COUNCIL
APPROVAL)

PROPOSED SCHOOL
SIGNAGE - REFER
ARCHITECT

NEW PEDESTRIAN ENTRY
WITH CONCRETE PATHWAY,
KERB RAMP AND ZEBRA
CROSSING LINEMARKING

NEW BRICK PIERS TO MATCH
EXISTING DRIVEWAY ENTRY
WITH RELOCATED EXISTING
PEDESTRIAN GATE FROM
BUTLER STREET ENTRY

ALLOCATED 2 x DISABLED
PARKING SPACES

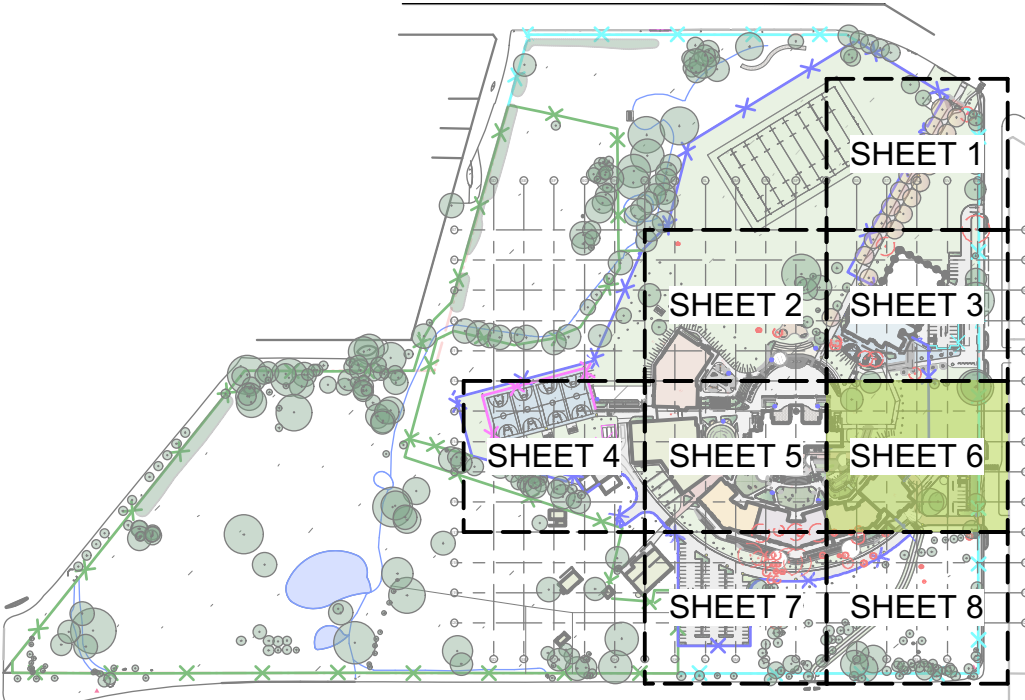
NEW ASPHALT (PV 10)
CARPARK & DRIVEWAY WITH
LINEMARKING. REFER CIVIL.
TURNING BAY SUBJECT TO
TRAFFIC ENGINEER'S INPUT

NEW CONCRETE PATHWAY TO
MATCH EXISTING

PROPOSED SCHOOL
SIGNAGE - REFER
ARCHITECT

EXISTING PEDESTRIAN GATE TO
BE RELOCATED TO NEW
PEDESTRIAN ENTRANCE ON SITE

EXISTING BRICK PIERS AND
GATES TO ENTRY TO BE
RETAINED



Issue				
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C	18/06/2018	ISSUE FOR INFORMATION	AS	
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E	29/06/2018	DA DRAFT	AS	
F	06/07/2018	DA DRAFT	AS	
G	28/09/2018	DA	AS	
H	15/10/2018	EIS ISSUE	AS	
I	16/10/2018	EIS ISSUE FOR REVIEW	AS	

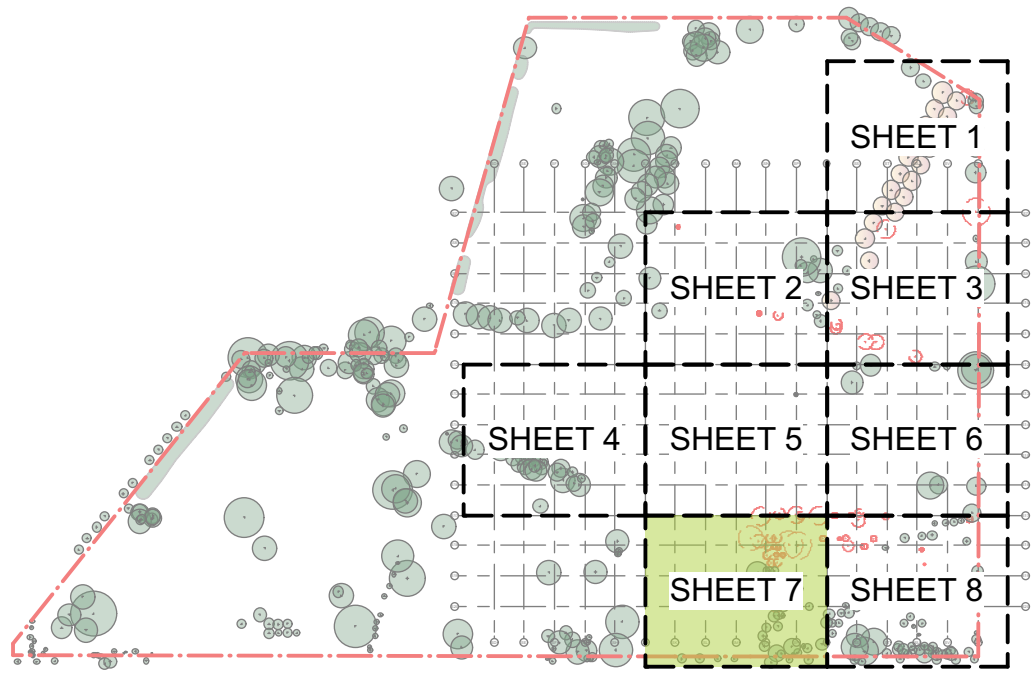
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for
NSW Department of Education

Drawing Title
Landscape Hardscape & Materials Plan - Sheet Six

Date 16/10/2018
Scale 1:200 @ A1 1:400 @ A3
0 2 4 6 8 10 12m
Drawing Reference
17352-NBR5-L-106
Rev
1



Issue			
No.	Date	Description	Chkd
A	08/05/2018	25% SCHEMATIC DESIGN	AS
B	15/06/2018	DA DRAFT	AS
C	18/06/2018	ISSUE FOR INFORMATION	AS
D	22/06/2018	DA DRAFT	AS
E	29/06/2018	DA DRAFT	AS
F	06/07/2018	DA DRAFT	AS
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NSW Department of Education

Drawing Title

Landscape Hardscape & Materials Plan - Sheet Seven

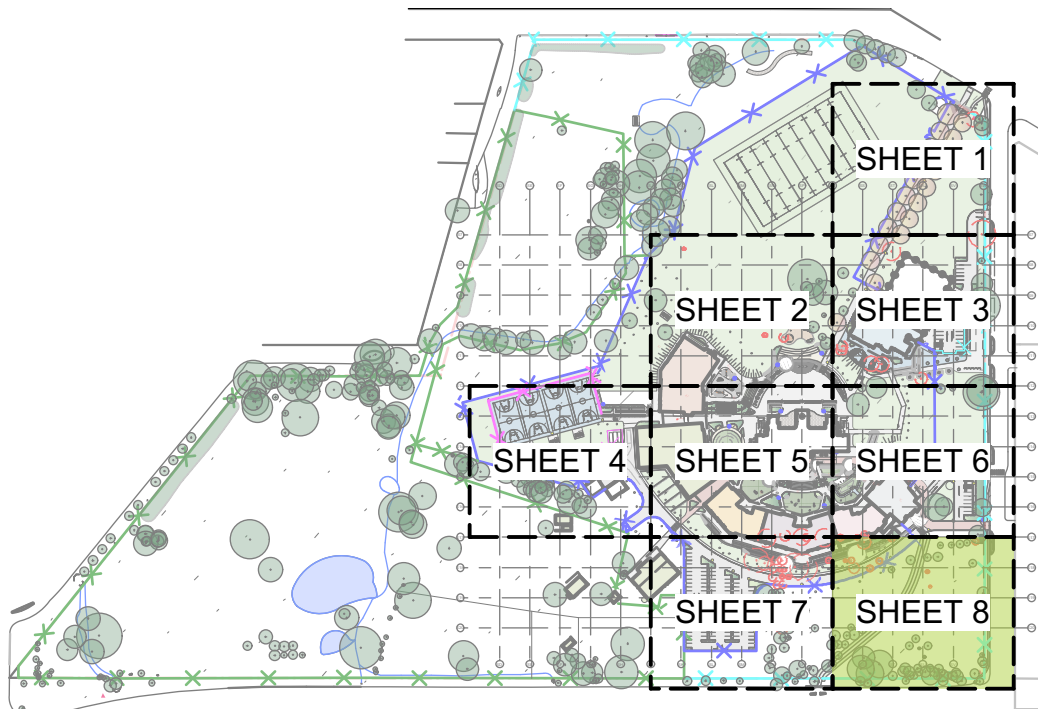
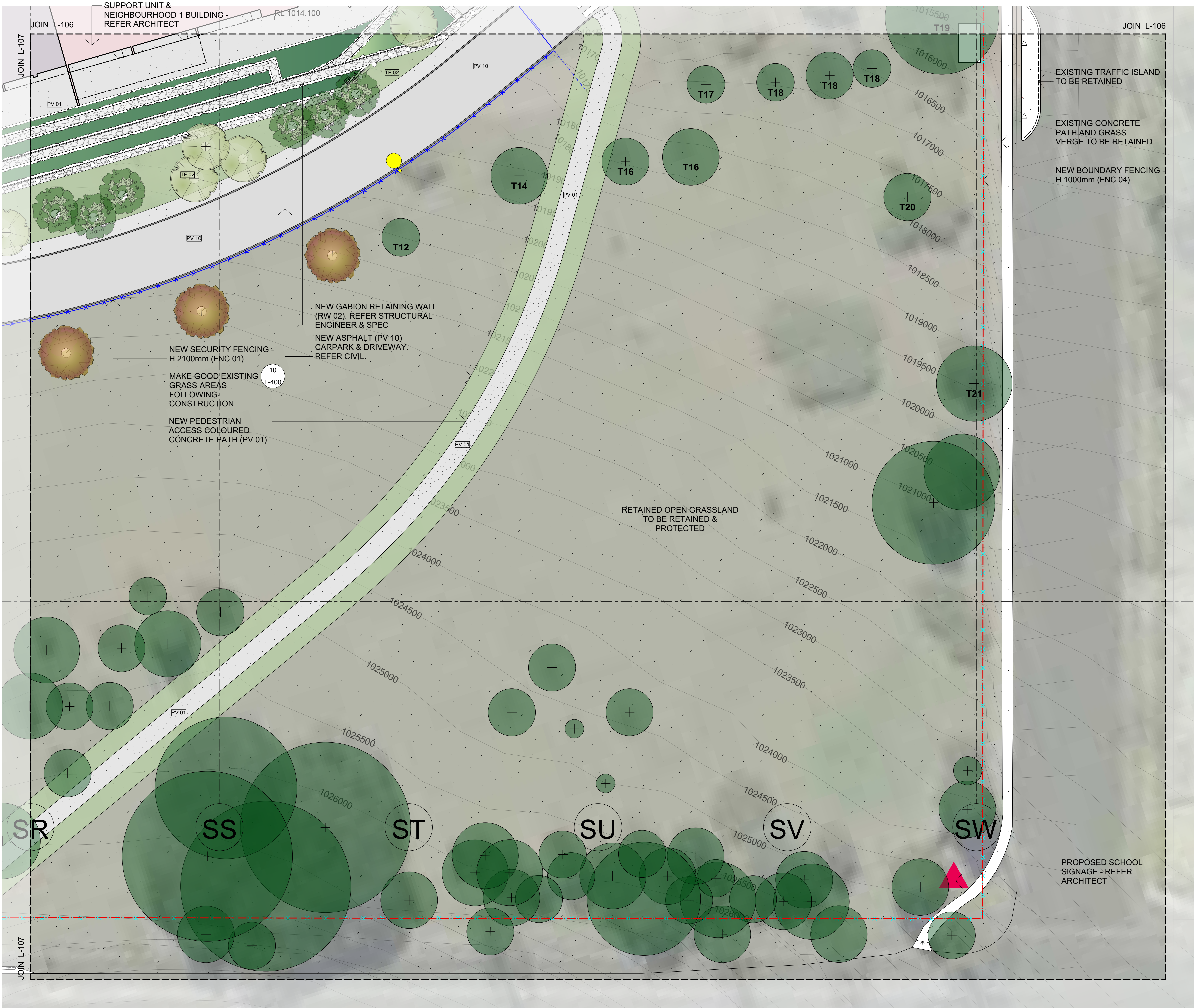
Date 16/10/2018

Scale 1:200 @ A1 1:400 @ A3

0 2 4 6 8 10 12m

Drawing Reference 17352-NBRS-L-107

Rev I



Issue			
No.	Date	Description	Chkd
A	08/05/2018	25% SCHEMATIC DESIGN	AS
B	15/06/2018	DA DRAFT	AS
C	18/06/2018	ISSUE FOR INFORMATION	AS
D	22/06/2018	DA DRAFT	AS
E	29/06/2018	DA DRAFT	AS
F	06/07/2018	DA DRAFT	AS
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I	16/10/2018	EIS ISSUE FOR REVIEW	AS

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Drawing Title
Landscape Hardscape & Materials Plan - Sheet Eight

Date 16/10/2018
Scale 1:200 @ A1 1:400 @ A3
0 2 4 6 8 10 12m
Drawing Reference 17352-NBR-S-L-108
Rev I