GLENWOOD HIGH SCHOOL 1278

# CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

26 June 2023

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# GLOSSARY

Tern	Definition
Approved disturbance area	The area identified as such on the development layout
CEMP	Construction Environmental Management Plan
Conditions of consent	SSDA
Department	NSW Department of Planning, Industry and Environment.
EIA	Environmental impact assessment. This includes the approved documents prepared to support an application for consent or approval of a project, and any subsequent modifications to the application or proposed project, including (as relevant) further environmental impact assessments and responses to submissions.
EIS	Environmental impact statement prepared by the proponent for a state significant project application.
Environmental aspect	As defined by AS/NZS ISO 14001:2015 as an element of an organisation's activities, products or services that can interact with the environment. They can be direct or indirect.
Environmental control map or plan	A plan or map that identifies the location of physical protection measures, work method controls and monitoring requirements to minimise the impact of project activities on the environment and community in and adjoining a specific work area.
Incident	An occurrence or set of circumstances that causes, or threatens to cause, material harm and which may or may not be or cause a non-compliance.
Material harm	<ul> <li>Harm that: <ul> <li>involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial</li> <li>Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).</li> </ul></li></ul>
Minister	NSW Minister for Planning and Public Spaces (or delegate or nominee, including the Secretary of the Department of Planning, Industry and Environment)
Mitigation	Actions or measures to reduce the impacts of a project.
Non-conformance	Failure to comply with an environmental requirement, standard, or procedure.
Non-compliance	An occurrence and/or set of circumstances that breach the conditions of consent and/or any other legal requirement.
Phase	A distinct period in the project (for example construction, operation, decommissioning).
Project (or 'The Project)	The construction process required to complete the works described in 2.1 Project Overview
Proponent	The person or entity that is referred to as the proponent in an approval or the applicant in a consent or any other person carrying out any part of the development to which the approval or consent applies.
Planning Secretary	Planning Secretary under the Environmental Planning and Assessment Act 1979, or nominee. (Note references to the Planning Secretary in legislation now refer to the 'Secretary of the Department of Planning, Industry and Environment)
PMP	Project Management Plan – RCC internal project management document
RCC	Richard Crookes Constructions Pty Ltd

Stage	A discrete sequence of activities undertaken to complete one or many activities within the project scope. A project can have several stages which can extend throughout multiple phases.
SSD	State Significant Development

# **REVISION REGISTER**

REVISION DATE	REVISION DESCRIPTION	PREPARED BY	APPROVED BY
18/07/2022	Revision 1 – Draft	Joshua Stubbs (Project Engineer)	Joel Coubrough (Senior Project Engineer)
12/09/2022	Revision 2 – PCA Review & Planning Secretary Submission	Joshua Stubbs (Project Engineer)	Joel Coubrough (Senior Project Engineer)
03/11/2022	Revision 3 – DPIE RFI's (JACOBS- GCOR-000264)	Joshua Stubbs (Project Engineer)	Joel Coubrough (Project Manager)
26/06/2023	Revision 4 – IAPAR #02 CEMP review	Joshua Stubbs (Project Engineer)	Joel Coubrough (Project Manager)

**Project Stage** – This CEMP relates specifically to the Construction of Glenwood High School and the approval conditions within SSD-23512960.

# **CEMP CONDITION COMPLIANCE TABLE**

Each Sub-Plan has an included Condition Compliance Table, with specific section and page number references. The below table is high level and directs to each appendix/sub-plan.

#### SSDA Conditions shown below:

Condition	Condition Requirements	Document/Sub-Plan Reference
B15	Prior to the commencement of construction, the Applicant must submit a Construction Environmental Management Plan (CEMP) to the Certifier and provide a copy to the Planning Secretary for information. The CEMP must include, but not be limited to, the following:	
	(a) Details of:	
	(i) Hours of work	Appendix 6.1
	(ii) 24-hour contact details of site manager	M: 0410 521 986 E: riellyL@richardcrookes.com.au
	(iii) Management of dust and odour to protect the amenity of the neighbourhood	Appendix 6.2
	<ul> <li>(iv) External lighting in compliance with AS 4282-</li> <li>2019 Control of obtrusive effects of outdoor</li> <li>lighting</li> </ul>	Appendix 6.2
	<ul> <li>(v) Community consultation and complaints handling as set out in the Community Communication Strategy required by condition B10</li> </ul>	SINSW Comms Team
	(b) an unexpected finds protocol for contamination and associated communications procedure to ensure that potentially contaminated material is appropriately managed in accordance with the recommendations of the Report of Detailed Site (Contamination) Investigation (Ref: 94626.00), prepared by Douglas Partners and dated 12 November 2021;	Appendix 6.4
	(c) An unexpected finds protocol for Aboriginal and non-Aboriginal heritage and associated communications procedure	Appendix 6.4

(d) Construction Traffic and Pedestrian Management Sub-Plan (see condition B17)	t Appendix 6.5
(e) Construction Noise and Vibration Management S Plan (see condition B18)	Sub- Appendix 6.6
(f) Construction Waste Management Sub-Plan (see condition B19)	Appendix 6.7
(g) Construction Soil and Water Management Sub-P (see condition B19)	lan Appendix 6.8
(h) Construction Flood Emergency Management Sub Plan (see condition B20)	D- Appendix 6.10
(i) Biodiversity Management Sub-Plan (see conditio B21)	n Appendix 6.11

# **1 INTRODUCTION**

# 1.1 PURPOSE AND SCOPE

This Construction Environmental Management Plan (CEMP) has been prepared by Richard Crookes Constructions Pty Ltd for the Glenwood High School (GHS) development.

This CEMP and its sub-plans have been developed in accordance with the SSDA Conditions of Consent, Richard Crookes Constructions' environmental management systems, the relevant project approval documentation and the Environmental Management Plan Guidelines.

The purpose of this Construction Environmental Management Plan is to:

- Identify the environmental issues (aspects and impacts) for this project;
- Maintain Compliance with the SSDA;
- Establish, communicate & implement environmental operational controls to reduce any adverse impacts on the environment from RCC's activities, products and services.
- Implement and Monitor compliance by RCC and its suppliers & subcontractors with the requirements of all relevant environmental legislation, conditions of any applicable licence, approval and permit, regulatory requirements and this EMP.
- Action any outcomes from incidents or accidents, project audits or other identified non-conformances to continually improve the RCC environmental management system.

# **1.2 OBJECTIVES**

The principal objectives of the CEMP are:

- Ensure that the construction works are carried out in accordance with the appropriate environmental statutory requirements
- Ensure that the works are carried out in such a way as to minimise potential environmental degradation by the implementation of environmental best practice
- Ensure that personnel engaged in the work comply with the CEMP

• Respond to changes in environmental conditions during the proposed works through review, monitoring and control programs

• Ensure corrective actions are implemented in a timely manner

This CEMP is the overarching document for environmental management of the Project, with a number of supporting management documents. It is applicable to all personnel associated with the completion of the Project works, including Project Managers, Contractors and Sub-Contractors.

## **1.3 ENVIRONMENTAL POLICY**

Richard Crookes Constructions Pty Ltd implements an Environmental Management System that is certified by Global mark as meeting the requirements of AS/NSW ISO 14001:2016 Environmental Management Systems. RCC's Environmental Policy can be found in Appendix 6.4 of this CEMP. It is provided as an Appendix so that it may be updated in isolation as required.

This CEMP is not staged, as it applies to the entire construction phase of the Project.

# **2 PROJECT DESCRIPTION**

# 2.1 PROJECT OVERVIEW

The development is for upgrading works comprising alterations and additions to Glenwood High School at 85 Forman Avenue, Glenwood. The site is roughly rectangular in shape, with a total area of 60,790m2 and street frontages to Forman Avenue to the south and Glenwood Drive to the east. Glenwood Reserve adjoins the northern and western boundaries of the school.

The key driver for intervention at GHS is to replace the demountable class rooms with fit for purpose permanent facilities and provide the required core facilities for the increased student population. The proposed upgrade will need to achieve all the necessary educational outcomes, realising the NSW Department of Education's reform agenda. The works comprise the following key activities.

- Site preparation and excavation
- Construction of new buildings including:
  - Construction of a new three-storey building at the north-eastern portion of the site facing Glenwood Park
  - Drive which will accommodate new learning spaces
  - Construction of a one story performance pavilion
- Refurbishment of existing Building Block A (ground floor only) to provide one new support unit within the space of an existing general learning space
- Refurbishment of Building Block E to re-purpose it on the ground floor for computer learning spaces, staff and administration spaces as well as upgrades to the library on the first floor
- Refurbishment of Building Block J to re-purpose it from visual arts and performing arts to learning spaces and workshops for food tech and woods/metal unit
- Demolition of existing botany room and construction of a new single storey pavilion comprising of interview rooms and end-of trip facilities; and
- The proposed development will also involve ancillary works at the site associated with the proposed upgrades.

Development Consent:

• Principal will provide State Significant Development approval (SSD-23512960)

## 2.2 SCOPE OF WORKS

#### Scope of Works

This CEMP will apply to all construction activities relating to the works approved under the SSDA for Glenwood High School

#### indicative plant and equipment

- Excavators
- Rollers
- Mobile Cranes
- Piling machines
- Trucks (deliveries, haulage etc.)
- Concrete trucks
- Concrete pumps
- Generators

The above list is indicative only. All plant and equipment required to complete the Project works will be used.

### 2.3 SITE LOCATION PLAN



#### LEGEND



NEW-GENERAL LEARNING UNIT
NEW-SHARED LEARNING SPACE
NEW-LIBRARY UNIT
NEW-OUTDOOR COVERED LEARNING
NEW-STAFF UNIT
NEW-STORAGE UNIT / COMMS
NEW-STUDENT AMENITIES
NEW-STAFF AMENITIES
NEW-SUPPORT LEARNING UNIT
EXIST-CIRCULATION
EXIST-FOOD TEC - MATERIALS LEARNING UNIT
EXIST-GENERAL LEARNING UNIT
EXIST-LIBRARY UNIT
EXIST-STAFF UNIT
EXIST-STORADE UNIT / COMMS
EXIST-STUDENT AMENITIES
EXIST-SUPPORT LEARNING UNIT

# 2.4 TIMING OF ACTIVITIES

#### Hours of Work

Construction activities will be carried out in-line with SSD-23512960 Conditions of Consent C4 - C8 between:

- (a) Monday to Friday: 7:00am to 6:00pm
- (b) Saturdays: 8:00am to 4:00pm
- (c) Sundays and Public Holidays: No work permitted

#### **Construction Hours**

- C4. Construction, including the delivery of materials to and from the site, may only be carried out between the following hours:
  - (a) between 7am and 6pm, Mondays to Fridays inclusive; and
  - (b) between 8am and 1pm, Saturdays.

No work may be carried out on Sundays or public holidays.

- C5. Notwithstanding condition C4, provided noise levels do not exceed the existing background noise level plus 5dB, works may also be undertaken during the following hours:
  - (a) between 6pm and 7pm, Mondays to Fridays inclusive; and
  - (b) between 1pm and 4pm, Saturdays.
- C6. Construction activities may be undertaken outside of the hours in condition C4 and C5 if required:
  - (a) by the Police or a public authority for the delivery of vehicles, plant or materials; or
  - (b) in an emergency to avoid the loss of life, damage to property or to prevent environmental harm; or
  - (c) where the works are inaudible at the nearest sensitive receivers; or
  - (d) for the delivery, set-up and removal of construction cranes, where notice of the cranerelated works is provided to the Planning Secretary and affected residents at least seven days prior to the works; or
  - (e) where a variation is approved in advance in writing by the Planning Secretary or her nominee if appropriate justification is provided for the works.
- C7. Notification of such construction activities as referenced in condition C6 must be given to affected residents before undertaking the activities or as soon as is practical afterwards.
- C8. Rock breaking, rock hammering, sheet piling, pile driving and similar activities may only be carried out between the following hours:
  - (a) 9am to 12pm, Monday to Friday;
  - (b) 2pm to 5pm Monday to Friday; and
  - (c) 9am to 12pm, Saturday.

#### 24 Hour Contact Details:

Name	Title	Phone Number
Lucas Rielly	Site Manager	0410 521 986

# **3 COMMUNITY AND STAKEHOLDER ENGAGEMENT**

A Community Communication Strategy has been prepared by SINSW as required by, and in accordance with the relevant conditions

This will be submitted to the Planning Secretary and will be made available on the School Infrastructure NSW website as required.

Section 6.4 of the CCS details SINSW's stakeholder and community notification process. Table 5 outlines minimum notification periods for work activities with the potential to impact sensitive receivers. Section 6.5 of the CCS details SINSW's complaints handling process. Table 6 details SINSW's acknowledgement and response times. Each of the sections have been included as an excerpt from the Community Communication Strategy. The Community Ccommunication Strategy remains the primary complaints management system and should be referred to for more information as necessary.

All information pertaining to community and stakeholder engagement for the SSDA can be found within this strategy. Refer to Appendix 6.9 – Community Consultation Strategy.

# 6. Protocols

#### 6.1. Media engagement

SINSW manages all media relations activities, and is responsible for:

- a) Responding to all media enquiries and instigating all proactive media contact.
- b) Media interviews and delegation to SINSW media spokespeople who are authorised to speak to the media on behalf of the project
- c) Informing the Minister's Office and SINSW project team members and communications representatives of all media relations activities in advance and providing the opportunity to participate in events where possible.

#### 6.2. Site visits

SINSW, in partnership with the Department of Education Schools Performance, organises and hosts guided project site tours and media briefings as required by the Minister's Office. The Project Team will ensure the required visitor site inductions are undertaken and that all required Personal Protective Equipment (PPE) is worn.

For media site visits and events, SINSW creates, or contributes to, the production of an event pack. This will include an event brief, media release, speaking notes and Q&As.

#### 6.3. Social, online and digital media

SINSW initiates and maintains all social and online media channels. These channels may include the Department's Facebook and Twitter, and SINSW's LinkedIn and website.

#### 6.4. Stakeholder and community notification process

Notification letters or project updates will be distributed to the community and stakeholders in advance of any activity with the potential to cause impacts.

Depending on the work activity and stakeholder, notifications are primarily distributed via letterbox drop, via the school, electronically via email, as well as uploaded to the SINSW project webpage. If appropriate, notification may also be delivered in person via door knocks, or via phone call or text message, or one-on-one briefings.

Notifications will be written in plain English and will:

- outline the reason that the work is required
- outline the location, nature, and duration of the proposed works
- outline date/s of work, where practicable
- outline work hours
- include a diagram that clearly indicates the location of the works, where required
- include a 1300 community contact number, project email address and website details
- Provide details for a translation service, where required.

**Table 5** below outlines minimum notification periods that will be targeted for work activities with the potential to impact sensitive receivers. All notification periods prescribed within development approvals or by approving bodies will be adhered to.

Regular construction updates regarding the general work program and significant milestones will also be provided to the school community and neighbouring properties throughout construction.

The contractor will provide SINSW with the information necessary to meet the notification requirements and target timeframes contained, where practicable.

#### Table 5: Target community notification periods

Notification period	Work activity
	Major incident, emergency works/unforeseen events
Same day (or as soon as	Unplanned out of hours work (notification provided to affected residents by the contractor before undertaking the works or as soon as practical)
practical)	Unexpected hazardous material find or incident (e.g. asbestos, lead, chemical spill or other harmful material)
	Start of works or site establishment
	Works outside of the site boundary
	Planned out of hours work or change to approved work hours
7 days	Planned investigation and remediation of hazardous materials including asbestos
	Phase of high noise generating works including demolition, tree removal, rock breaking, rock hammering, piling or similar
	Major traffic or pedestrian access changes including parking impacts, detours, and road diversions/closures
	Operational changes for the school community including to school drop-off points, entry and exit points, bus stops, and play space
3 months	Major impacts to school community, including relocation to temporary school, changes to student intake area or similar

#### 6.5. Enquiries and complaints management

SINSW manages enquiries (called interactions in our Customer Relationship Management (CRM) software, Darzin), and complaints in a timely and responsive manner.

Prior to project delivery, a complaint could be related to lack of community consultation, design of the project, lack of project progress, etc.

During project delivery (construction), a complaint is defined as in regards to construction impacts - such as - safety, dust, noise, traffic, congestion, loss of parking, contamination, loss of amenity, hours of work, property damage, property access, service disruption, conduct or behaviour of construction workers, other environmental impacts, unplanned or uncommunicated disruption to the school.

If a phone call, email or face-to-face complaint is received during construction, it will be acknowledged within 2 working days and logged in our CRM, actively managed, closed out and resolved by SINSW within 10 days, where practicable. Where complaints are unable to be resolved within this timeframe the complainant will be provided with regular updates regarding the complaint resolution process.

A 24-hour contact number for the project site manager will be displayed at the site and can be shared with the community as necessary for any urgent issues that need to be addressed on site, outside of business hours.

As per our planning approval conditions, a complaints register is updated monthly, or as required by the planning authority, and is publicly available on the project's webpage on the SINSW website.

If the complainant is not satisfied with SINSW's response, and they approach SINSW for rectification, the process will involve a secondary review of their complaint as per the outlined process.

Complaints will be escalated when:

An activity generates three complaints within a 24-hour period (separate complainants).

- Any construction site receives three different complaints within a 24-hour period.
- A single complainant reports three or more complaints within a three-day period.
- A complainant threatens to escalate their issue to the media or government representative.
- The complaint was avoidable.
- The complaint relates to a compliance matter.
- The complaint relates to a community safety matter.
- The complaint relates to a property damage claim.

Complaints will be first escalated to the Senior Manager, Community and Engagement or Director of Communications for SINSW as the designated complaints handling management representatives for our projects. Further escalation will be made to the Executive Director, Office of the Chief Executive to mediate if required.

If a complaint still cannot be resolved by SINSW to the satisfaction of the complainant, we will advise them to contact the NSW Ombudsman - <u>https://www.ombo.nsw.gov.au/complaints</u>.

Table 6 below outlines target timeframes for responding to enquiries and complaints, through each correspondence method:

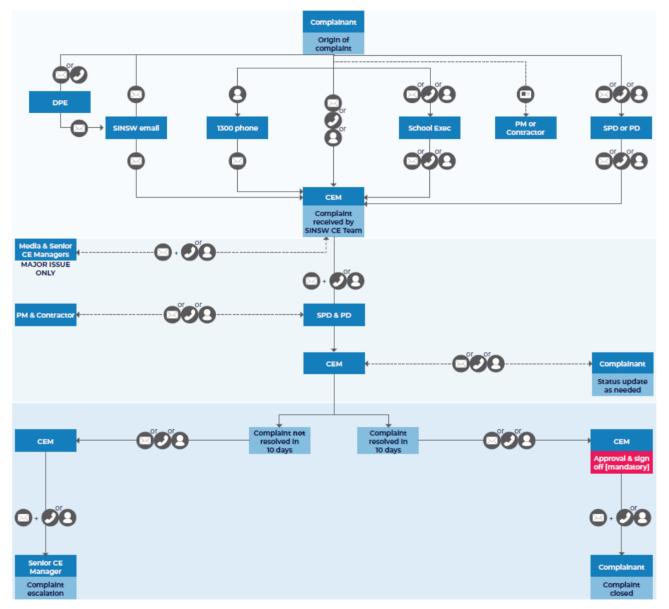
Complaint	Acknowledgement times	Response times
Phone call during business hours	At time of call.	Complaint to be closed out within 10 days, where practicable.
		If not possible, continue contact, escalate internally as required, and provide the complainant with regular updates until resolved.
Phone call after hours*	Within two (2) hours of receiving message upon	Complaint to be closed out within 10 days, where practicable.
	returning to office.	If not possible, continue contact, escalate internally as required, and provide the complainant with regular updates until resolved.
Email during business hours	At time of email (automatic response)	Complaint to be closed out within 10 days, where practicable.
		If not possible, continue contact, escalate internally as required, and provide the complainant with regular updates until resolved.
Email outside of business hours	At time of email (automatic response)	Complaint to be closed out within 10 days, where practicable.
		If not possible, continue contact, escalate internally as required, and provide the complainant with regular updates until resolved.
Interaction/ Enquiry		
Phone call during business hours	At time of call.	Interaction to be logged and closed out within 10 days, where practicable.
Phone call after hours	Within two (2) hours of receiving message upon returning to office.	Interaction to be logged and closed out within 10 days, where practicable.
Email during business hours	At time of email (automatic response)	Interaction to be logged and closed out within 10 days, where practicable.

#### Table 6: Complaint and enquiry response time

Complaint	Acknowledgement times	Response times
Email outside of business hours	At time of email (automatic response)	Interaction to be logged and closed out within 10 days, where practicable.
Letter	N/A	Interaction to be logged and closed out within 10 days following receipt, where practicable.

The below diagram outlines our internal process for managing complaints.





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(b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).

#### 6.6.1. Roles and responsibilities following an incident

In the event of an incident, once emergency services are contacted, the incident must be immediately reported to the SINSW Senior Project Director who will inform:

- a) SINSW Executive Director
- b) SINSW Community Engagement Manager
- c) SINSW Senior Manager, Community Engagement
- d) SINSW Communications Director

SINSW Communications Director will:

- a) Lead and manage all communications with the Minister's office in the event of an incident, with assistance as required
- b) Direct all communications with media to the SINSW Media Manager in the first instance for management
- c) Notify all other key project stakeholders of an incident.

The school and local community will be notified within 24 hours in the event of an incident, as per our notification timelines in Table 5.

The SINSW Senior Project Director will issue a written incident notification to Department of Planning & Environment (DPE) and Local Council (if required) immediately following the incident to set out the location and nature of the incident.

This must be followed within seven days following the incident of a written notification to the Department of Planning and Environment that:

- (a) identifies the development and application number;
- (b) provides details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident);
- (c) identifies how the incident was detected;
- (d) identifies when SINSW became aware of the incident;
- (e) identify any actual or potential non-compliance with conditions of consent;
- (f) describes what immediate steps were taken in relation to the incident;
- (g) identifies further action(s) that will be taken in relation to the incident; and
- (h) provides the contact information for further communication regarding the incident (the Senior Project Director).

Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, SINSW will provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below:

- (a) a summary of the incident;
- (b) outcomes of an incident investigation, including identification of the cause of the incident;
- (c) details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence; and
- (d) details of any communication with other stakeholders regarding the incident.

#### 6.7. Reporting process

Throughout the project, data will be recorded on participation levels both face to face and online, a record of engagement tools and activities carried out in addition to queries received and feedback against emerging themes.

Stakeholder and community sentiment will be evaluated throughout to ensure effectiveness of the engagement strategy and to inform future activities.

\_\_\_\_\_

A monthly report is prepared for all SINSW projects, which includes but is not limited to:

a) Stakeholder engagement reporting – numbers of forums, participation levels and a summary of the outcomes

# **4 ENVIRONMENTAL MANAGEMENT FRAMEWORK**

# 4.1 RELATIONSHIP TO AN EXISTING ENVIRONMENTAL MANAGEMENT SYSTEM

This CEMP is a supplementary document to RCC's Environmental Management System that is certified by Global mark as meeting the requirements of AS/NSW ISO 14001:2016 Environmental Management Systems.

RCC's Environmental Management Plan itself is included within RCC's Project Management Plan (PMP).

Some information has been copied into this CEMP for clarity, any reference in this CEMP to the PMP, QAP's or various forms is a reference to RCC's internal management system.

## 4.2 ENVIRONMENTAL MANAGEMENT STRUCTURE AND RESPONSIBILITIES

Project Tasks and Duties (Insert • In box for nominee, delete or add rows as required for tasks required / not required) ENVIRONMENTAL MANAGEME	Project Manager	,	Engineer	ContractManager/Administrator	Design Manager	Cadet	Foreman	QA Officer /Finishes Foreman	WHS & Env Coordinator	Leading Hand	Construction worker	Subcontractors	Construction Director//Manager	Business Systems QA.ENV	Mananar Human Resources Manager	anager	Rehabilitation Coordinator	Commercial Manager	External Auditors
Identification of project environmental risks (aspects & impacts) and																			Т
development of the EMP to document controls		•							•										
Planning & conducting training incl. inductions														•	•	•			
Inspections, monitoring & testing		•							•					•		•			
Compliance with the EMP, corrective & preventative action		•							•					•					•
Verification of compliance (audits) and review of system effectiveness (ie. is it working as planned?)	•	•							•					•					•
Incident management & emergency response		•							•					•		•			
Environmental Policy, objectives & targets		•							•				•	•					
Allocation of resources for Environmental management		•							•				•						
Compliance with legal & other requirements		•							•				•	•					
Keeping abreast of changes in legal & other requirements	•	•							•					•					
Acquire & disseminate environmental management information		•							•					•					
Develop & implement procedures		•							•					•					
Assessing suppliers/subcontractors abilities to comply with the EMS		•							•					•					
Ensuring compliance with RCC procedures and site rules		•							•			•		•					
Monitoring or technological changes & management practices		•							•				•	•					
Liaise with regulatory authorities (Local Council, Heritage Office, EPA, DPiE etc)	•	•							•					•					
Management of community complaints	•	•							•				•						

# 4.3 LEGAL AND COMPLIANCE REQUIREMENTS

Legislation	Objectives & Application	Relevance
Federal		
Environment Protection and Biodiversity Conservation Act 1999	<ul> <li>The Environment Protection and Biodiversity Conservation Act (EPBC) 1999 aims to:</li> <li>Provide for the protection of the environment, especially matters of national environmental significance</li> <li>Conserve Australia's biodiversity</li> <li>Protect biodiversity internationally by controlling the international movement of wildlife</li> <li>Provide a streamlined environmental assessment and approvals process where matters of national environmental significance are involved</li> <li>Protect our world and national heritage</li> <li>Promote ecologically sustainable development.</li> </ul>	This Act is applicable to the Project in the event of an Unexpected Find of an Aboriginal object or Heritage item.
Aboriginal and Torres Strait Islander Heritage Protection Act 1984	The purposes of this Act are the preservation and protection from injury or desecration of areas and objects in Australia and in Australian waters, being areas and objects that are of particular significance to Aboriginals in accordance with Aboriginal tradition.	This Act is applicable to the Project in the event of an Unexpected Find of an Aboriginal object.
National Environmental Protection Council Act 1994	<ul> <li>The object of this Act is to ensure that, by means of the establishment and operation of the National Environment Protection Council:</li> <li>People enjoy the benefit of equivalent protection from air, water, or soil pollution and from noise, wherever they live in Australia; and</li> <li>Decisions of the business community are not distorted, and markets are not fragmented, by variations between participating jurisdictions in relation to the adoption or implementation of major environment protection measures.</li> </ul>	The Council may make national environment protection measures that will influence the completion of the Project. See Act for further detail.

Legislation	Objectives & Application	Relevance	
Federal	Federal		
National environmental Protection measures (Implementation) Act 1998	<ul> <li>The objects of this Act are:</li> <li>to make provision for the implementation of national environment protection measures in respect of certain activities carried on by or on behalf of the Commonwealth and Commonwealth authorities; and</li> <li>to protect, restore and enhance the quality of the environment in Australia, having regard to the need to maintain ecologically sustainable development; and</li> <li>to ensure that the community has access to relevant and meaningful information about pollution.</li> </ul>	<ul> <li>Under this Act, the Environment Minister may (subject to considerations of national interest or administrative efficiency):</li> <li>Apply State laws to the activities of the Commonwealth or Commonwealth authorities in Commonwealth places • Apply State or Territory laws to the activities of the Commonwealth or Commonwealth authorities in other places.</li> </ul>	
NTC Brochure: Load Restraint Guide 2004	The Load Restraint Guide 2018 provides truck drivers, operators, and everyone in the transport chain of responsibility with basic safety principles for the safe carriage of loads.	All drivers (where relevant) must follow this guide when transporting goods to and from the Project.	
Legislation	Objectives & Application	Relevance	
State			

Legislation	Objectives & Application	Relevance
Federal		
Waste Avoidance and Resource Recovery Act 2001	The objects of this Act are as follows:	
	<ul> <li>The objects of this Act are as follows:</li> <li>To encourage the most efficient use of resources and to reduce environmental harm in accordance with the principles of</li> <li>ecologically sustainable development,</li> <li>To ensure that resource management options are considered against a hierarchy of the following order:</li> <li>(i) Avoidance of unnecessary resource consumption,</li> <li>(ii) Resource recovery (including reuse, reprocessing, recycling and energy recovery),</li> <li>(iii) Disposal,</li> <li>To provide for the continual reduction in waste generation,</li> <li>To minimise the consumption of natural resources and the final disposal of waste by encouraging the avoidance of waste and the reuse and recycling of waste,</li> <li>To ensure that industry shares with the community the responsibility for reducing and dealing with waste,</li> <li>To ensure the efficient funding of waste and resource management planning, programs and service delivery,</li> <li>To achieve integrated waste and resource management planning, programs and service delivery on a State-wide basis,</li> <li>To assist in the achievement of the objectives of the Protection of the Environment Operations Act 1997.</li> </ul>	Waste Avoidance and Resource Recovery Act 2001 Establishes the waste hierarchy. Promotes waste avoidance and resource recovery by developing waste avoidance and resource recovery strategies. Provides requirements for waste avoidance and resource recovery

Legislation	Objectives & Application	Relevance
Federal		
State Environmental Planning Policy No 55 - Remediation of Land	<ul> <li>The object of this Policy is;</li> <li>To provide for a State-wide planning approach to the remediation of contaminated land.</li> <li>In particular, this Policy aims to promote the remediation of contaminated land for the purpose of reducing the risk of harm to human health or any other aspect of the environment:</li> <li>By specifying when consent is required, and when it is not required, for a remediation work, and</li> <li>By specifying certain considerations that are relevant in rezoning land and in determining development applications in general and development applications for consent to carry out a remediation work in particular, and</li> <li>By requiring that a remediation work meet certain standards and notification requirements.</li> </ul>	The site is to be remediated in accordance with State Environmental Planning Policy 55 – Remediation of Land (SEPP 55).

Legislation	Objectives & Application	Relevance
Federal		
	An Act to protect, restore and enhance the environment in NSW and to promote public access to information and involvement in environment protection. The Act: - Designates the EPA (Environment Protection Authority) as the regulatory authority.	
	See epa.nsw.gov.au for further information.	
	Objectives of the Act are:	
	• To protect, restore and enhance the quality of the environment in New South Wales, having regard to the need to maintain ecologically sustainable development,	
	<ul> <li>To provide increased opportunities for public involvement and participation in environment protection,</li> </ul>	
	• To ensure that the community has access to relevant and meaningful information about pollution,	There is a duty to report pollution incidents under section 148 of the Protection of the Environment
	• To reduce risks to human health and prevent the degradation of the environment by the use of	Operations Act 1997 (POEO Act).
Protection of the	mechanisms that promote the following:	Schedule 1 of the POEO defines activities that
Environmental Operations Act	Pollution prevention and cleaner production,	require an Environmental Protection Licence.
1997	The reduction to harmless levels of the discharge of substances likely to cause harm to the environment,	The POEO Act Classifies Environmental Offences and Penalties.
	The elimination of harmful wastes,	
	The reduction in the use of materials and the re-use, recovery or recycling of materials,	
	The making of progressive environmental improvements, including the reduction of pollution at source,	
	• The monitoring and reporting of environmental quality on a regular basis,	
	• To rationalise, simplify and strengthen the regulatory framework for environment protection,	
	• To improve the efficiency of administration of the environment protection legislation,	
	• To assist in the achievement of the objectives of the Waste Avoidance and Resource Recovery Act 2001.	

Legislation	Objectives & Application	Relevance
Federal		
	The object of this Regulation is to repeal and remake, with minor amendments, the provisions of the Protection of the Environment Operations (Noise Control) Regulation 2000.	
	This Regulation creates offences (maximum penalty \$11,000 for corporations and \$5,500 for individuals) for selling or driving a vehicle with a temporary noise reduction device or with temporary noise reduction packing or for modifying or repairing a vehicle so as to include any such device or packing. A person is not guilty of any such offence if the conduct alleged to give rise to the offence occurs within 6 months after the commencement of this Regulation.	
	This Regulation also makes provision with respect to the following:	
	<ul> <li>a) the selling or using of certain classes of motor vehicles and motor vehicle accessories that are capable of emitting noise levels above a prescribed level,</li> </ul>	
	b) the use of motor vehicle horns and motor vehicle intruder alarms,	
Protection of the	<ul> <li>c) the times during which it is not permissible to use certain motor vehicles if they emit noise that can be heard in other residential premises,</li> </ul>	
Environment	d) the sounding of sirens and similar devices and the use of sound systems on vessels,	Equipment used during the Project construction
Operations (Noise Control) Regulation	e) the emission of noise from the engines or exhausts of motor vehicles and vessels,	works must be in compliance with this regulation.
2017	f) the maintenance of noise control equipment on motor vehicles and vessels,	
	g) the issue of defective vehicle notices and defective vessel notices,	
	<ul> <li>h) the prohibition on selling certain articles that are capable of emitting noise levels above a prescribed level,</li> </ul>	
	i) the obligation to label certain articles,	
	<ul> <li>the times during which it is not permissible to use certain articles (including musical instruments) if they emit noise that can be heard in any residential premises,</li> </ul>	
	k) the inspection and testing procedures for the purpose of determining noise emission levels of certain	
	motor vehicles, motor vehicle accessories, vessels, articles or equipment. See	
	epa.nsw.gov.au for further information.	

Legislation	Objectives & Application	Relevance
Federal		
Protection of the Environment Operations (Waste) Regulation 2014	The Waste Regulation improves the EPA's ability to protect human health and the environment and paves the way for a modern and fair waste industry in NSW. See epa.nsw.gov.au for further information.	Construction waste must be managed in accordance with this regulation.
Protection of the Environment Operations (Clean air) Regulations 2010	<ul> <li>This Regulation:</li> <li>Provides for the certification of domestic solid fuel heaters;</li> <li>Controls burning generally by imposing an obligation to prevent or minimise emissions, by prohibiting the burning of certain articles and requiring approval for certain fires/incinerators;</li> <li>Requires the fitting of anti-pollution devices to certain motor vehicles and prescribes an offence of emitting excessive air impurities;</li> <li>Imposes certain requirements and standards on the supply of petrol;</li> <li>Prescribes standards for certain groups of plant and premises to regulate industry's air impurity emissions; and</li> <li>Imposes requirements on the control, storage and transport of volatile organic liquids.</li> </ul>	The construction works associated with the project must be conducted in such a way that does not contravene this regulation. Regulates atmospheric pollutants including dust and odour onsite
	See epa.nsw.gov.au for further information.	

Legislation	Objectives & Application	Relevance
Federal		
Crown Lands Act 2016	<ul> <li>For the purposes of this Act, the principles of Crown land management are— <ul> <li>(a) that environmental protection principles be observed in relation to the management and administration of Crown land;</li> <li>(b) that the natural resources of Crown land (including water, soil, flora, fauna and scenic quality) be conserved wherever possible;</li> <li>(c) that public use and enjoyment of appropriate Crown land be encouraged;</li> <li>(d) that, where appropriate, multiple use of Crown land be encouraged;</li> <li>(e) that, where appropriate, Crown land should be used and managed in such a way that both the land and its resources are sustained in perpetuity; and</li> <li>(f) that Crown land be occupied, used, sold, leased, licensed or otherwise dealt with in the best interests of the State consistent with the above principles.</li> </ul> </li> </ul>	The Project site is Crown Land, which influences the management of works, certification, and applicability of legislation.
Fire Brigades Act 1989	<ul> <li>This Act applies to;</li> <li>Land-based hazardous material incidents (and to any fires that may result from them) that occur anywhere in the State except on State waters, as defined in the Marine Pollution Act 2012.</li> <li>A hazardous material incident that occurs in or on a building, bridge or other structure or on any body of water (not being part of State waters) is taken to be land-based.</li> </ul>	Applies to emergency incidents and accidents involving hazardous materials
Local Government Act 1993	<ul> <li>The purposes of this Act are as follows:</li> <li>To provide the legal framework for an effective, efficient, environmentally responsible and open system of local government in New South Wales,</li> <li>To regulate the relationships between the people and bodies comprising the system of local government in New South Wales,</li> <li>To encourage and assist the effective participation of local communities in the affairs of local government,</li> </ul>	Referenced and assessed during Approval Process

Legislation	Objectives & Application	Relevance
Federal		
Contaminated Land Management Act 1997	<ul> <li>Objects of this Act:</li> <li>The general object of this Act is to establish a process for investigating and (where appropriate) remediating land that the EPA considers to be contaminated significantly enough to require regulation under Division 2 of Part 3.</li> <li>Particular objects of this Act are:</li> <li>To set out accountabilities for managing contamination if the EPA considers the contamination is significant enough to require regulation under Division 2 of Part 3, and</li> <li>To set out the role of the EPA in the assessment of contamination and the supervision of the investigation and management of contaminated sites, and</li> <li>To provide for the accreditation of site auditors of contaminated land to ensure appropriate standards of auditing in the management of contaminated land, and</li> <li>To ensure that contaminated land is managed with regard to the principles of ecologically sustainable development</li> </ul>	Contamination on site must be assessed and managed in accordance with this act

Legislation	Objectives & Application	Relevance
Federal		
Environmental Planning and Assessment Act 1979	<ul> <li>The objectives of this Act are to encourage:</li> <li>The proper management, development, and conservation of natural and artificial resources, including agricultural land, natural areas, forests, minerals, water, cities, towns and villages for the purpose of promoting the social and economic welfare of the community and a better environment,</li> <li>The promotion and co-ordination of the orderly and economic use and development of land,</li> <li>The protection, provision and co-ordination of communication and utility services,</li> <li>The provision of land for public purposes,</li> <li>The protection of the environment, including the protection and conservation of native animals and plants, including threatened species, populations and ecological communities, and their habitats, and</li> <li>Ecologically sustainable development, and</li> <li>The provision and maintenance of affordable housing, and to promote the sharing of the responsibility for environmental planning between the different levels of government in the State, and</li> <li>To provide increased opportunity for public involvement and participation in environmental planning and assessment.</li> </ul>	Planning approval for the project is regulated by the DPE under the Environmental Planning and Assessment Act 1979.

## 4.4 TRAINING AND AWARENESS

Project specific environmental training and awareness will be conducted/enforced throughout the duration of construction. The key avenues for the implementation of this training and awareness are **Site Inductions**, **Toolbox Talks**, **Pre-Start Meetings** and **General Awareness** measures.

Additional training may be conducted on an as-required basis as the works progress.

#### Site Inductions

All workers will complete a Project specific induction prior to accessing site/commencing works. In addition to the compulsory WHS information, this induction will provide all construction personnel with site specific environmental training. The training will include environmental concerns, management measures and other protocols in place to satisfy the Conditions of Consent and other environmental obligations.

#### **Toolbox Talks**

Tool box talks will be conducted regularly by RCC and sub-contractors, to address specific WHS and environmental concerns. These toolbox talks will address specific activities, the hazards associated with them, and the management measures required to be put in place to maintain compliance and minimise/eliminate environmental harm.

Examples of specific environmental issues that will be addressed in tool box talks include:

- Erosion and sediment control
- Hours of work
- Emergency and spill response
- Noise
- Housekeeping and waste
- Dust control
- Construction traffic management

Toolbox talk attendance is mandatory and all those in attendance will be required to sign in to the discussion and outcomes on an attendance form. RCC will maintain records of all Toolbox talks.

#### **Pre-Start Meetings**

Pre-start meetings are a daily training and awareness protocol that will be implemented to inform the daily activities of the construction workforce.

The upcoming construction activities will be reviewed daily, and prior to the day commencing, the pre-start meeting will review and inform the required WHS practices, environmental management measures, work area hazards and other task specific concerns.

The pre-start meeting will be conducted by an RCC representative responsible for the work area that is being discussed. Subcontractors will be encouraged to share and discuss WHS and environmental concerns in relation to their specific works for that day.

Attendance is mandatory and all in attendance will be required to sign in to the discussion and outcomes on an attendance form. RCC will maintain records of all pre-start topics, dates and attendees.

#### **General Awareness Training**

General awareness of environmental obligations, risks and management measures will be enforced through site notice boards, posters, environmental bulletins and sub-contractor engagement (i.e. contractual) information packages.

### 4.5 ENVIRONMENTAL RISK MATRIX/ASSESSMENT

A copy of the Environmental Risk Matrix/Assessment has been included as an appendix to this CEMP. This is a live document that will be continuously revised as the Project progresses.

It will be supplementary to a monthly High Risk Project Assessment, that will be completed and provided to all construction workers.

## 4.6 HOLD POINTS

Other than specific requirements of the SSDA Conditions of Consent, general hold points associated with works are outlined in the Unexpected Finds Protocol, which serves to account for the Hold Points associated with Asbestos & Non-Asbestos related finds

# 4.7 ENVIRONMENTAL MANAGEMENT MEASURES, INSPECTIONS AND MONITORING

The following table outlines the environmental management measures, inspection and monitoring process that will be followed as part of RCC's existing Environmental Management System.

This is a live document that will be continuously updated as required throughout the duration of construction works.

Refer to Appendix 6.4

## 4.8 ENVIRONMENTAL CONTROL MAPS OR PLANS

The environmental control maps and/or plans that are relevant to the Project construction works are:

- Site context plans provided within this CEMP.
- Tree protection zones, shown within the arborist report for both sites.
- Sensitive receivers relating to the noise and vibration impacts of the construction works, presented in the Construction Noise & Vibration Management Sub-Plan.
- Erosion and sediment control measures, shown on the erosion and sediment control plans within the Construction Soil & Water Management Sub-Plan.

### 4.9 ENVIRONMENTAL MANAGEMENT DOCUMENTS

The environmental management documents that will be implemented as part of the environmental management system include:

- Environmental Site Inspection Checklist
- Complaints Register
- · Hazardous substances register
- · Waste register
- High Risk Works Project Assessment
- Asbestos (Hazmat) Register
- Imported/Exported Materials Register
- Sub-Contractor high risk safe work method statement (where environmental risks are present)

### 4.10 COMPLIANCE MONITORING AND REPORTING

As this EMP is a CEMP, and only applicable to the construction phase of the development, the post approval compliance monitoring and reporting requirements (which apply to operation/occupation) do not apply.

An operational management plan will be prepared by the Applicant, which will address the post approval compliance monitoring and reporting requirements of the project.

### 4.11 ENVIRONMENTAL AUDITING

This development will be audited in accordance with the Department's Independent Audit Post Approval Requirements.

# 4.12 ENVIRONMENTAL INCIDENT AND EMERGENCY PLANNING, PREPAREDNESS AND RESPONSE

#### Project Personnel Responsible for Managing Environmental Incidents and Emergencies

- Project Manager
- Site Manager
- WHS&E Manager
- Business Systems & Environmental Manager

Contact Details for Emergency Services (ambulance, fire brigade, police, spill clean-up services and others if relevant)

ORGANISATION	NAME	PHONE (W)	PHONE (M)
WorkCover	-	Hotline for incident repo	orting
		13 10 50	
Fire Brigade/HAZMAT	Emergency	000	
Police	Emergency	000	
Environment Protection Authority (EPA)	-	02 9211 4723 Head Office	After Hours Pollution line 131 555
		02 9995 5000 Parramatta	

Compliance contact

#### Location of On-Site information on hazardous materials, including safety data sheets and spill containment materials

Information on hazardous materials, including safety data sheets and spill containment materials will be located in or adjacent to the project first aid shed. This will be located in the location deemed most suitable for the progress/status of works at any time.

# 4.13 CORRECTIVE AND PREVENTATIVE ACTIONS

#### Incident management and reporting

Incident reporting and Investigation refer to internal management system.

Definitions:

**Class 1:** Dangerous occurrence, or actual harm to an ecosystem, property loss or clean up exceeds \$10,000 (as prescribed in 2.1.) Class 1 incidents and some cases Class 2 (as determined by senior management) will be investigated, as directed by BS Environmental Manager, WHS Head of Safety and/or where required initiate the RCC Business Continuity Plan

Form 03 0 Investigation Report will be completed by the BS Environmental Manager or Senior Safety Advisors and the original forwarded to the Project Manager and reviewed by the BS Environmental Manager WHS Head of Safety and reported to Senior management and Executives/Board.

<u>Class 2:</u> Major Leak, spill or escape off site of liquids, near miss/dangerous occurrence i.e. plant/equip damage, disruption to <u>services</u>. Note: Some Class 2 will be investigated at the discretion of the BSM/WHS Head of Safety **Class 3:** Minor Leak, spill or escape off site of liquids all less than >10lts, Dust, Vibration

The Site Manager/Supervisor will ensure that all Class 2 and Class 3 incidents in or around the site, involving RCC personnel, subcontractors, visitors or passers-by, external authorities, Unions etc. are reported regardless of how minor they appear at the time of the occurrence.

#### Duty to Notify Environment Protection Authority (EPA) of Pollution Incident - notifiable incident

Pollution Incident means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed on the premises, but it does not include an incident or set of circumstances involving only the emission of noise. Incidents that require a (Duty to Notify) to the regulatory authorities EPA Pollution line (phone 131 555) under section 148 of the Protection of the Environmental Operations Act 1997 (POEO Act) are:

- If the actual or potential harm to the health or safety of human beings or ecosystems is not trivial,
- If actual or potential loss or property damage (including clean-up costs) associated with a pollution incident may exceed \$10,000
- For all Notifiable Incidents, the following activities should be undertaken:
- The incident site must not be disturbed until an inspector arrives at the scene or directs otherwise, this may include plant, substance, structure or thing associated with the incident. The person with management or control of the workplace is responsible for preserving the incident site, so far as reasonably practicable
- The incident site will be preserved unless it prevents any action needed to:
  - minimise the risk of further notifiable incident
  - facilitate a EPA investigation

For Regulator "reportable incidents", the Supervisor will notify the Project Manager, Business Systems Environmental Manager and or WHS Head of Safety to seek advice, then immediately prepare the submission of Notification to the regulator.

Business Systems Environmental Manager and or WHS Head of Safety will confirm and organise legal representation to assist in the preparation of the reports and initiate the RCC Business Continuity Plan

In some contracts it is a requirement to notify the Client's Representative immediately e.g. GC21 Contracts and relevant DPIE SSD reportable incidents

#### Incident(s) debrief/closure

Where an investigation is undertaken and it is determined that an "incident debrief" is to be carried out using Form 04.10, the Incident debrief will be distributed to all relevant stakeholders and Senior/Executive Management. Outcomes of Investigations/findings may initiate an internal Alert for distribution.

#### Non-Conformance

In the event of breach in the requirements of the CEMP, such as:

- Non-compliance with the RCC/ subcontractors SWMS or other environmental procedures;
- Noncomplying activities noted during site inspections (high risk or potential for legal breach);
- Following concerns regarding potential breaches in environmental legislation raised by RCC, the client or other stakeholders such as local council or the EPA;
- Changes to the RCC system or subcontractors' procedures, as a result of corrective or preventative action following and environmental incident, inspection or external audit.

Form 31.1 – Non-Conformance Report or via Aconex will be completed and issued to the offending party.

Non-Conformances will be registered in Form 31.2 Non-Conformance Report Register or on soft copy.

A copy of the Non-Conformance Notice will be forwarded to the Project Manager and the subcontractor, who will implement appropriate corrective action.

Additionally, Contractors Notices or Main Contractor Notices may be issued in certain circumstances, as described in Section 2 of the PMP.

# **5** CEMP REVIEW AND REVISION PROCESS

To ensure this CEMP remains current and relevant to the project, it will be reviewed in accordance with the relevant conditions

A30	Within three months of:
	(a) the submission of a compliance report under condition A33;
	(b) the submission of an incident report under condition A26;
	(c) the submission of an Independent Audit under condition C35 or C36;
	(d) the approval of any modification of the conditions of this consent; or
	<ul> <li>(e) the issue of a direction of the Planning Secretary under condition A2 which requires a review,</li> <li>the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary and the Certifier must be notified in writing that a review is being carried out.</li> </ul>
A31	If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans, programs or drawings required under this consent must be revised, to the satisfaction of the Planning Secretary or Certifier (where previously approved by the Certifier). Where revisions are required, the revised document must be submitted to the Planning Secretary and/or Certifier for approval and/or information (where relevant) within six weeks of the review.Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development. Compliance Reporting

Where a review is required, the **CEMP Review Checklist (provided overleaf)** will be used. This will determine why a review is required, who needs to be involved in the review, if revision is required as a result of the review, and what the revision is, if required.

If this CEMP is revised, it will be submitted to the Department (and/or other party as required by the conditions of consent) for assessment and approval in accordance with the requirements of the relevant conditions of consent and the review process that was documented and approved in the earlier version/s.

The revised version of the revised EMP will be provided to the Department, and accompanied by information that identifies:

- what has changed and why it has been changed
- the proposed timeframe to implement the change.

A brief summary of the changes made and the circumstance/s that triggered the review and revision will also be included in the version control information.

Complete this checklist if a review of this CEMP or its sub-plans is triggered (see section 5 for applicable triggers).

CEMP	Review Checklist	
	Person Completing Checklist:	Date:
	Why is a review required?	
1	Outline what has triggered the review. Use the triggers from Condition A34 & A35 of the SSD Consent.	
2	What sections of the CEMP and/or Sub-Plans require a review?	
3	Notify the Planning Secretary that a review is being carried out, with a description of the extent of the review. <i>Provide evidence of notification.</i>	
4	Who is required to be involved in the review? Identify the relevant consultants, project staff and/or authorities who may need to be involved in the review.	
	Conduct review.	
	Do the CEMP sections and/or Sub-Plans being reviewed still address the specific requirements of the development?	
	<b>If Yes</b> , no revision is required. State why no revision is required and file a completed copy of this checklist for reference. No further action is required.	
5	If no, revision is required. Go to step 6.	
	Note – if a review has been triggered, the specific trigger will generally highlight what information in the CEMP or it's Sub-Plans is not adequately addressing the specific requirements of the development.	
6	Revise CEMP and/or relevant Sub-Plans. Engage with relevant stakeholders where required. Consult with relevant parties about revision where required.	

CEMP	Review Checklist	
7	Issue updated CEMP and/or Sub-Plans to the Planning Secretary (and/or other party as required by the conditions of consent) for assessment and approval (if approval is required).	
8	<ul> <li>Provide a summary that identifies:</li> <li>What has changed and why it has been changed</li> <li>The proposed timeframe to implement the change</li> </ul>	
9	Ensure revision information and the circumstances that triggered the review is included in the version control information of the revised document.	

# **6** APPENDICES

## 6.1 SITE RULES

Refer to following page for Richard Crooke Constructions Site Rule for the GHS Project

RICHARD CROOKES

It is a condition of entry to this site that the following Quality, Environmental & Safety requirements are complied with, in addition to the RCC standard DVD induction.

The site rules form part of the contract agreement.

#### 1. RESPONSIBILITIES UNDER THE WHS ACT

#### **Duties of employers:**

"An employer (PCBU) must ensure the health, safety and welfare at work of all the employees of the employer."

#### Others at workplace:

"An employer (PCBU) must ensure that people (other than the employees of the employer) are not exposed to risks to their health or safety arising from the conduct of the employer's undertaking while they are at the employer's place of work".

#### Duties of self-employed persons:

"A self-employed person (PCBU) must ensure that people (other than the employees of the person) are not exposed to risks to their health or safety arising from the conduct of the person's undertaking while they are at the person's place of work."

#### **Duties of employees:**

"An employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's acts or omissions at work."

#### 2. ENTRY TO THE CONSTRUCTION SITE

#### All visitors to site must:

- report to the site office for induction by RCC Staff. Unless site inducted, they are to be accompanied at all times by a person inducted to the site. The inducted person is responsible for the visitor.
- sign the daily site VISITOR attendance register.

#### All persons first attending site to commence work must"

- Report to the site office for site induction by RCC staff, at the agreed times.
- Have completed, and display evidence of completing, Industry WHS Induction
- Have completed, and display evidence of completing work activity training.
- Provide evidence of being trained in their applicable Safe Work Method Statement(s).

#### All persons working on site must:

permitted.

- Complete the daily site attendance register.
- Wear a safety helmet, Note: No other form of hat is permitted under the hard hat.
- Wear safety glasses at all times when out on site (Tinted Outdoors and Clear Indoors).
- Wear high visibility clothing in the form of a Shirt or vest.
  - Short sleeve shirts to be worn at a minimum, singlets / vests only, in place of shirts are not
- Wear safety footwear complying with AS 2210.
- Comply at all times with your company's Safe Work Method Statement (SWMS).
- Be sun smart, wear sun screen. Re-apply and re-hydrate regularly.

It is the responsibility of the subcontractor employer to supply PPE and provide training to their workers in the correct use, care and storage.



Richard Crookes Constructions Pty Ltd Level 3, 4 Broadcast Way Artarmon NSW 2064 PO Box 1024, Crows Nest NSW 1585

# RICHARD CROOKES

#### 3. **OPERATING HOURS**

Site Hours are 7:00 am to 6:00 pm Monday to Friday and 8:00 am to 1:00 pm Saturdays, no work Sundays or Public Holidays.

Note: provided noise levels do not exceed the existing background noise level plus 5dB, works may also be undertaken during the following hours: 6:00pm and 7:00pm, Mondays to Fridays inclusive; and between 1:00pm and 4:00pm, Saturdays.

#### 4. SECURITY AND ACCESS

Security measures, including perimeter fencing, will be used to prevent unauthorised access to the building(s) and construction areas, and to ensure safe access and passage for all those on and adjacent to the work site.

When walking on site, (where applicable), use the walkways provided in the work areas and when walking to and from the work area- *DON'T TAKE SHORT CUTS*. Never move across in front of oncoming vehicles.

Beware of reversing vehicles, as the driver may not know you are behind the vehicle.

Pedestrian and vehicular gates to be kept in the closed position when not in use.

#### 5. VEHICLE ACCESS

Where applicable, vehicles may only be driven on site with the approval of Richard Crookes Constructions. The only vehicles allowed on site are those that are used specifically for delivering materials. These materials must be off-loaded immediately and the vehicle moved from the site once the delivery has been made.

In such instances employees, subcontractors and visitors must obey the site speed limits.

Parking on site is not permitted without the approval of RCC site management.

Vehicles shall not park on public footpaths; nature strips or in any way that restricts pedestrian accesses.

#### 6. WORK OUTSIDE SITE

No work is to be undertaken outside the site unless approved by RCC Management. Approval will be in the form of a written authorisation and will only be issued following a formal submission from the subcontractor a minimum 7 days prior to the work being undertaken.

#### 7. EMERGENCY PLAN

The site emergency/evacuation plan is displayed in various locations around the site (e.g. lunchrooms, toilets, etc.).

When an emergency is notified by the siren/hooter and evacuation is required, all personnel are required to evacuate in accordance with that plan to the dedicated muster area(s), and await instruction from RCC

#### 8. SAFE WORK METHOD STATEMENT'S (SWMS)

Subcontractors will be required to provide a SWMS statement in accordance with the requirements of the WHS Act. The SWMS must be submitted prior to commencing work on this project. Guidelines for the production of SWMS are available upon request.



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# RICHARD CROOKES

The SWMS must be relevant to the task being undertaken on this site. Persons working under the SWMS must be instructed in its contents before commencing the task by their nominated supervisor. Records of the instruction and attendees are to be forwarded to the Site Foreman prior to commencing work.

#### 9. HAZARD REPORTING & NEAR MISSES

Any hazards reported by site personnel will be reported to the Foreman who will record the hazard on the Project Risk Assessment or Site Inspection Form. A detailed assessment of risks associated with the hazard will be undertaken by nominated RCC personnel.

#### 10. FIRST AID

All injuries, no matter how slight are to be reported to the site Foreman or supervisor. Persons requiring first aid treatment shall immediately contact the first aid officer who shall administer any first aid treatment. Details of all accidents and first aid treatment will be recorded.

Refer to the site notice board for identification of the First Aid officer(s) and the location of the first aid facilities.

Note: Identify what system will be used in the form of a nurse call system, and identify locations of call points & how to operate. Post on notice board and adjacent to Nurse Call stations.

#### 11. ACCIDENTS AND DANGEROUS OCCURRENCES

Accidents, dangerous occurrences or any other safety issues are to be reported immediately to Richard Crookes Constructions site Foreman or other representative, and to the Subcontractor's site representative in charge.

The Site Supervisor will ensure that all near misses, accidents, incidents and property damage occurring in or around the site, involving RCC personnel, subcontractors, visitors or passers-by, are investigated and reported regardless of how minor they appear at the time of the occurrence.

#### 12. HAZARDOUS SUBSTANCES

Subcontractors shall provide **safety data sheets (SDS)** to Richard Crookes Constructions site management employees before bringing any hazardous substance onto the site.

Chemicals and other hazardous substances must be used and stored in compliance with the MSDS and details must be recorded on the Register of Hazardous Substances.

A Safe Work Method Statement shall be prepared for the use of each Hazardous Substance. The SWMS shall cover safe handling, PPE and what to do in an emergency. This SWMS shall be used to instruct personnel in the safe use of the substance.

RCC Note: MSDS needs to be attached to the contractor's task specific SWMS with copies located in the site, MSDS folder and listed in the register.

*Note: For refurbish /alteration projects – insert the following paragraph. Edit as required.* Please refer to the site plan that indicates the areas of hazardous substances that are part of the structure and surrounding environment. See site notice board.



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#### 13. TEMPORARY ELECTRICAL

The nominated electrician will provide temporary power boards; subcontractors shall supply individual task lighting for use on site.

Subcontractors shall comply with the WorkCover "Code of Practice for Electrical Practices for Construction Work" and the AS3000 Wiring Rules.

#### 14. LEADS AND POWER TOOLS

The inspection and tagging of all electrical leads, electrical tools and equipment prior to working on this project, and during construction, *is the responsibility of the individual subcontractor*.

Copies of all electrical registers and details of their inspection must be forward to the RCC site management team. Details on the tags and in the log book must include the licence number of the electrician, date of the inspection and the owner's plant number. Testing intervals for portable electrical plant is not to exceed 1month.

When using extension leads, the lead is to be supported at a height of no less than 2 metres off the ground to within 4 metres of the work area. Ensure clear access is maintained around / above any work area or passageway. The joining of extension leads is prohibited. The length of any one lead shall not exceed (25) twenty five metres. Do not extend 240-volt flexible extension cords of the maximum length by more than 5 metres by the attachment of electrical equipment.

Confine flexible extension cords used in multi-storey construction to the same floor as the power source. Obtain power for use in stairwells from the floor above or the floor below the work area. This clause need not apply to:

(i) falsework; (ii) lift or service shafts

Do not locate flexible extension cords with plug socket connections in wet places or places where they are subject to damage by liquids.

Subcontractors shall supply Insulated lead stands. All power is to be taken from a source that is protected by earth leakage or similar device.

Support of leads is to be by the use of insulated / non conductive hooks. Do not support directly off metal structures.



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#### 15. PLANT AND EQUIPMENT

All plant and equipment used on this project is to be properly maintained. Damaged or modified tools and equipment are not permitted on site.

Plant and machine guarding must not be removed or modified.

Subcontractors shall keep a register for the proper and safe maintenance of their plant and equipment. A copy is to be supplied to the site office each month.

Every operator of plant must ensure that, where required, the item of plant is registered with WorkCover and copies of certificates and evidence of regular maintenance completed are given to RCC site management prior to operating.

In addition to these requirements, operators must also be able to demonstrate that training by a competent person has been completed.

As required, mobile plant must be fitted with working hazard lights / reversing lights and beepers.

#### 16. HOISTING/CRANAGE

Vertical movement of materials is to be undertaken by the hoist or crane located on site. The following rules are to be strictly observed:

- No overloading
- Position load so it is safe. Secure load if necessary.
- A ticketed operator shall operate the hoist and crane at all times.
- Observe signage near and around the hoist and crane.

#### 17. EXCAVATION / TRENCHES / HOLES

All excavation work shall be carried out in accordance with the Code of Practice, Excavation. Prior to excavation, **all existing underground services shall be located, identified, and marked. All due care must be taken** to prevent damage to those services.

Subcontractors shall make safe any trenches or holes they create. Penetrations in slabs are to be made safe by fixing structural grade plywood or plate steel across them as necessary to support anticipated loads.

Adequate handrails and barricading is to be installed around all open trenches and excavations, the sides of which must be free from spoil, materials, plant and equipment.

#### **18. CERTIFICATES OF COMPETENCY**

Scheduled work as defined under the Occupational Health & Safety Regulation which includes scaffolding, dogging, rigging, operation of crane, hoist, concrete placing boom, load shifting machines, explosive powered tools and formwork, shall only be performed by persons who hold the required certificates of competency or meet the requirements of the Regulation.

Prior to performing work on site, certificates of competency are to be submitted to Richard Crookes Constructions for inspection, copies will be made and attached to RCC induction records.

Material are not to be thrown from elevated levels including slabs, roofs or scaffolds.



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#### **19. HOT WORK/FIRE PREVENTION**

Subcontractors shall provide an appropriate fire extinguisher for each welding set and oxy-acetylene set brought on site.

All combustible, flammable and explosive materials shall be removed from the work area or covered with fire proof material.

Welding or spark arrester screens shall be positioned around the work area to protect others working nearby or passing by. As determined by RCC site management via risk assessment, the issuing of a 'Hot Work permit' may be required prior to starting.

Particular care is to be taken on days of Total Fire Ban especially working in grassed areas.

#### 20. SITE SAFETY COMMITTEE or OTHER AGREED ARRANGEMENTS

If a site safety committee is established, the minutes of meetings will be displayed on the site notice board together with the names and positions of elected members of the committee.

Where site numbers are not enough to allow for the formation of an affective safety committee Other Agreed Arrangements will be established in accordance with the WHS Regulations 2011, Chapter 2.

#### 21. TOOLBOX TALKS

There will be regular tool box discussions conducted at minimum intervals of 1 week, between and in consultation with those working on the site relating to health, safety and environmental matters associated with day to day activities.

#### 22. CODE COMPLIANCE STATE AND FEDERAL

As RCC is a Code Compliant Contractor and has tendered work with relevant agency funding, The NSW implementation guidelines for procurement and the Building Code 2016 and Guidelines apply to our projects. This relates to Workplace Relations issues on our projects.

Your responsibilities as a subcontractor working for RCC include:

- Advising RCC Supervisor of union visits (Right of Entry).
- Advising RCC Supervisor of CCU (NSW Industrial relations) or the ABCC inspectors.
- Not holding stopwork meetings.

• Not coercing or collusion with someone to hire or not hire, join a particular superannuation fund, that your workmates/employees are covered by a particular industrial instrument, pressuring your workmates/employees to join/not to join/cease being a member of a union or industrial association. (Freedom of Association)

• Reporting any non compliant actions or behaviours to the RCC Foreman or Project Manager as listed above.

• Become familiar with the ABCC/CCU awareness poster.



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#### 23. SITE COORDINATION MEETINGS

These meetings will be held at pre-determined intervals as nominated by RCC site management. A representative from each subcontractor on site shall attend the meeting.

At the meeting the coordination of site safety will be discussed as the first item of the agenda.

Persons responsible and completion times will also be determined at this point. The progress of these items will be reviewed prior to the end of the day by the site foreman or his representative.

#### 24. WORKING AT HEIGHT

Working at heights above 2m must be in accordance with WorkCover requirements, including WHS Regulation 2011 Part 4.

#### 25. LADDERS

Subcontractors shall inspect all ladders for damage prior to use on site. Only "commercial" or "industrial" ladders to be used on site with the max load rating displayed.

**3 & 4 Foot ladders are NOT permitted on site**. All "A" frame ladders to have working a platform where access is restricted. "Other" ladders may be used after a risk assessment has been approved by RCC. Extension ladders are to extend a minimum of 1m above the highest working platform they serve and set at a safe angle of about 75 degrees to the horizontal (4 to 1). Do not stand above the third rung from the top of the ladder.

3 points of contact must be maintained at all times whilst working from ladders, if not possible to maintain seek alternate means of access.

Extension ladders are to be secured top & bottom from slipping back or sideways. Where they are used in a public or other trafficable area additional measures such as barricading is to be provided to prevent accidental collision.

#### 26. SCAFFOLDING

Scaffolding is to comply with the appropriate Australian Standards.

Scaffolding shall only be moved or altered by a scaffolder who holds the appropriate certificate of competency.

When using scaffolding do not place excessive loads on it or leave material such as bolts or debris on it once the work has finished.

Scaffold is to be accessed by means of a temporary staircase.

Mobile scaffolds are to be set up on level stable ground with wheels locked when in use.

Adequate handrails and means of access is to be maintained whilst the scaffold is in use. Climbing the side is not permitted.

Mobile scaffolds are to be fitted with stabilisers where their height exceeds 3x the narrowest width.

Scaffolds marked with an 'incomplete' sign are not to be used.

Delivering Certainty Rev Date: 30.03.22

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#### 27. GRAVITATIONAL HAZARDS

Special care is required when working at heights, and to protect others from working at heights risks in areas below. Check that adequate handrails and kick boards are in place before entering or working in any area where there is a risk anything falling.

Hand tools are to be fitted with approved lanyards if people are working below. Areas below are to be sectioned off and defined as 'Works Zone'.

Safety harnesses are to be used in accordance with the Code of Practice for Working on Roofs and the Code of Practice Safety Line Systems, and must be worn in accordance with relevant method statements or as directed by the site Foreman.

All fall arrest devices must be inspected and tested by a competent person periodically as required by **AS/NZS 1891.4 Industrial fall-arrest systems and devices - Selection, use and maintenance.** 

#### 28. MANUAL HANDLING

Manual handling is to be carried out in accordance with the regulatory requirements.

Manual handling requirements are to be documented within the contractor's SWMS.

Generally material and equipment of excessive weight is to be lifted by mechanical means or with the assistance of other workers.

#### 29. NOISE CONTROL

Noise levels generated on site by plant and equipment is not to exceed the limits specified by statutory authorities and noise management is to be in accordance with the provisions of the Occupational Health & Safety Regulation.

#### Note that if you need to raise your voice to be heard, then you should be wearing hearing protection.

As required, designated noise areas need to be established around work zones.

#### **30. UV PROTECTION**

All persons on site must take adequate precautions against ultraviolet radiation. As a minimum, all persons working in direct sunlight shall wear high protection sunscreen (30+ or greater) on exposed skin.

It is RCC's preference that shirts with collars are worn at all times. The wearing of singlets and / or vests in place of a short sleeve shirt is not permitted.

#### 31. CONFINED SPACES

Controls for persons working in confined spaces are to be in accordance with the Code of practice – Confined Space and AS 2865 Confined Spaces. All work carried out within a confined space shall be completed by persons who have received the appropriate training and operating under the conditions of an entry permit.



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#### 32. ENVIRONMENTAL MANAGEMENT

# Protection of the Environment Operations Act 1997 (POEO Act), Protection of the Environment Amendment Act

This legislations means a person or company can be prosecuted for "potential" or "actual" environmental pollution. "No knowledge" is not a defence in court.

Examples include dust emission, washing concrete or paint into drains, working outside the site operating hours (noise) etc.

Site personnel shall observe all environmental safeguards and protection measures in place around the site and to conduct their day to day activities in a manner which minimises the potential to adversely affect the environment. In particular:

• Keep out of fenced areas (tree protection, heritage, fauna reserves etc).

• Not disturb or remove any of the bunding, silt fencing, hay bales and the like designed to prevent sediment leaving the site or making its way into waterways.

• Keep dust to a minimum, notify the RCC foreman if dust suppression is required, use equipment fitted with vacuum/dust collection systems.

• Be aware of how noise from your work may disturb the neighbours and follow the site hours of operation in relation to start, finish and delivery times and respect the local community when driving along local roads.

• Vibration from impulsive equipment (rock hammers, jack hammers etc) can damage to structures and property. Follow any site specific hours for impulsive work.

• It is illegal to discharge dirty water or water that may contain sediment, chemicals, paints, pigments,

oils etc into the stormwater system or creeks. Get advice when dewatering excavations.

- Chemicals to be stored in accordance with their MSDS and in bunds to prevent spills.
- No storage of bulk fuels onsite, rather use mini tankers for fuelling up plant and equipment.

• Place all waste materials (i.e. glass, metal, masonry etc) in the correct designated bin or temporary holding area.

• Washing out of concrete trucks is be carried out at the batch plant (as the first option). If onsite, wash out within a contained area identified by the RCC foreman.

• Use wash up areas for painting equipment.

• If you encounter any suspicious materials whist excavating (contamination, asbestos, munitions, clinic wastes, and acid sulphate soils) STOP work immediately and contact the RCC Foreman.

• Do not destroy any heritage artefacts or building without permits. In encountered STOP work and notify the RCC foreman.

• Clean up after yourself and put all rubbish in bins. Where identified, recycle steel, gyprock, pallets



etc.

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#### 33. CONTROL OF NON-CONFORMANCES

A Quality, Environmental or Safety Breach will attract a Non Conformance Report (NCR).

Examples of items that may attract a Non Conformance are: •

Failure to wear a hard hat / wear hard hat correctly. •

Failure to wear safety glasses (Clear or smoke).

- Failure to have leads supported off the floor.
- Failure to have current tags on electrical equipment.
- Having persons on site who haven't had a site induction or been instructed in the SWMS for this job.
   Not

performing works in accordance with their company's SWMS.

- Not carrying out items assigned at the daily coordination meeting within the agreed time frame.
- Failure to attend the coordination meeting.
- Failure to maintain environmental controls.
- Failure to keep work areas clean (House keeping).
- Failure to promptly clean up & notify of chemical spills.
- Failure to carry out the work in accordance with drawings and specification.
- Damage to other subcontractors work.

#### 34. MANAGEMENT SAFETY AUDIT

Subcontractors are advised that they may be audited randomly during this project to ascertain if they are adhering to the site safety plan, their Safe Work Method Statement and relevant statutory requirements.

#### 35. WORK AREAS - HOUSEKEEPING

Work areas must be kept clean and tidy, with rubbish and other safety hazards cleaned up promptly.

All protruding nails are to be removed from timber.

Materials are to be stored and used in a manner as to maintain safe access and egress to work areas at all times. In particular walkways, passages, stairs and exits must be kept clear to provide unimpeded access or egress at all times.

Spillage of oil or other similar liquids are to be cleared up immediately.

#### 36. GLASS CONTAINERS

Glass containers are not allowed on the site other than in the lunch room.



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#### 37. ALCOHOL & ILLEGAL DRUGS

Under no circumstances will any Employee, Subcontractor, Supplier or associated stakeholder affected by alcohol and/or by any other illegal drug be permitted to work and/or operate any plant or equipment on RCC projects. RCC reserve the right to conduct drug and alcohol testing on a random or with cause basis. Advise RCC if you are currently stood down or on medication.

#### **Refer to RCC Drug and Alcohol Policy**

#### 38. VIOLENCE AND HARASSMENT ON SITE

Violence, harassment or bullying of any kind will not be tolerated. Refer to WorkCover NSW Guide, "Violence in the Workplace" and RCC Guidelines for Dealing with Workplace Violence.

#### Refer to - RCC Harassment and Discrimination Policy.

#### - Dispute Resolution Procedure.

Approach the RCC Site Manager if you need assistance.

RCC reserve the right to remove workers from this site, existing and future RCC Projects where workers have conducted blatant unsafe acts, do not respond the requests, show blatant disregard to their fellow worker and the surrounding environment.

#### **39. YOUNG & INEXPERIENCED WORKERS**

All workers must be protected from risk of injury or illness arising from workplace hazards. Employers must give young / inexperienced workers the information, training and supervision needed to perform their task safely.

Employers must pay particular attention to young / inexperienced workers as they lack the experience needed and may be unfamiliar with the task.

For further information refer WorkCover NSW web site; Young workers.



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#### 40. PROTECTION OF CHILDREN AND OTHER VULNERABLE PEOPLE

#### Code of behaviour

The Subcontractor must ensure that all persons working on the Site, including but not limited to the Subcontractor's employees and managers, Consultants, Subcontractors and Suppliers (Subcontractor Employees) understand and comply with the requirements shown below:

- All Subcontractor Employees must gain permission to enter a school or facility before commencing work and may
  only enter approved areas. The Subcontractor's representative or where a subcontractor is working without
  the supervision of the Contractor, the subcontractor's representative must report their presence to the
  person in charge of the school or facility on arrival each day and record, in a "Site Visit Log", the details of
  all Contractor's or subcontractor's employees working at that site that day.
- Contractor Employees should avoid talking with, touching or interacting with any children or residents or other users of the school or facility except where the work requires it or in an emergency or safety situation.

• Subcontractor Employees must only use approved toilets and other facilities, unless the person in charge of the school or facility gives written authority to use alternative facilities.

• The work area must not be able to be used or accessed by children, or residents or other users of the school or facility while work is in progress.

• Clear signs and barricades (where appropriate) must be used to prevent any inadvertent or unauthorised access.

• Appropriate privacy must be maintained when working on toilets and similar facilities. Subcontractor Employees must ensure that toilets and similar facilities are not occupied or in use by children, residents or other users before entering to perform work, and that work does not continue when use of the facilities is required. Where practicable male employees should perform work on male facilities and female employees on female facilities.

• Subcontractor Employees must wear clothing that is tidy and in good condition, including a shirt and shorts, trousers or a skirt at all times.

- Subcontractor Employees should report any concerns about children's behaviour or child abuse to the person in charge of the school or facility.
- Subcontractor Employees must wear or carry an identity card at all times when on the Site.
- If requested, the Subcontractor must ensure that all persons working on the Site complete a written declaration that they have not been convicted and are not awaiting trial for a Disqualifying Offence as defined in Schedule 2 of the Child Protection (Working with Children) Act 2012 (NSW). The Contractor must keep copies of the declarations with site induction records.



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#### 6.2 ENVIRONMENTAL ACTIONS AND MONITORING TABLE

Refer to the following page for Richard Crooke Constructions Pty Ltd Environmental Controls Table, which outlines the control measures for air quality, odour and dust management. The allows for the management of site generated odours and prevents any impacts to hospitals.

## **RICHARD CROOKES**

## CONSTRUCTIONS

E	nvironmental		Ор	peration	al Controls		Effe	ctiveness of Co	ntrols	Checking, Corr Preventative Ac		
	Aspect read in conjunction Environmental Risk x)	Environmental Actions, Controls and Criteria	Induction &/or toolbox	RCC	Subcont. SWMS & contracts	Consult reports	Visual	Form 18.3 Environmental Inspection Checklist	Form 40.2 SWMS Compliance	Form 31.1 NCR/Site Notice Refer PMP Section 4	Check records during audit	Resp
1	Dust Generation Particulate Emissions (General)	<ul> <li>Install shade cloth on perimeter fencing as required and appropriate to the hoarding type.</li> <li>Vehicle corridors will be clearly identified and restricted to control vehicle access onsite.</li> <li>Follow all posted speed limit signs on-site, with vehicle speed onsite not to exceed 20km/h</li> <li>Fixed and mobile (water tanker) water sprays as required by the parameters of the site</li> <li>Reduce and/or stop work activities during moderate to high wind velocity periods.</li> <li>Maintain equipment. Smokey plant to be stopped until repair works completed.</li> <li>Turn off vehicle engines whilst not in use (no long periods of idling)</li> <li>This document is to be read in conjunction with the Construction Soil and Water Management Sub- Plan (CSWMSP) for the Glenwood High School Project. Where ambiguity and/or conflict occurs,</li> </ul>	•	✓			Daily	Weekly		As required		SS
1	Dust Generation (Demolition)	<ul> <li>Breakers and crushing equipment to be fitted with dust filtration equipment or water sprays to control dust emissions.</li> <li>This document is to be read in conjunction with the Construction Soil and Water Management Sub- Plan (CSWMSP) for the Glenwood High School Project. Where ambiguity and/or conflict occurs, the most onerous control/action is to be enforced.</li> </ul>			~		Daily	Weekly during works	~	As required		SS

## **RICHARD CROOKES**

## CONSTRUCTIONS

1	Dust Generation	<ul> <li>Minimise areas of site disturbed and stage works where possible.</li> </ul>	$\checkmark$	$\checkmark$		Daily	Weekly	As required		SS
	(Construction )	<ul> <li>Dust suppression strategies to be used, i.e. water sprays, soil binders, hydromulching, controlled speed onsite, roadbase + shaker grids.</li> </ul>								
		Stockpiled topsoils and rubble will be restricted to								
		4m high. Stabilise if insitu for >4-6months.								
		<ul> <li>On site drilling or coring operations will be undertaken by equipment fitted with air filtration equipment.</li> <li>This document is to be read in conjunction with the Construction Soil and Water Management Sub- Plan (CSWMSP) for the Glenwood High School Project. Where ambiguity and/or conflict occurs, the most onerous control/action is to be enforced.</li> </ul>								
2	Odour	<ul> <li>If odorous materials uncovered, recover immediately.</li> </ul>		$\checkmark$	$\checkmark$	Daily	Weekly	As required		SS
		<ul> <li>Seek advice from consultant regarding</li> </ul>								
		soil/materials management.								
3	Greenhouse	Ensure purchased electrical products/whitegoods		$\checkmark$				As required	$\checkmark$	CA
		products comply with specification for CFCS & energy ratings								SS
		Low solvent paints to be used as a priority								
		<ul> <li>Building to conform to AGBR or GreenStar performance criteria</li> </ul>								
		Deliveries/transport from site effectively planned     to limit inefficient transport, assist back loading etc								

## **RICHARD CROOKES**

4	Stormwater (Discharge from sedimentation basins, flooding)	<ul> <li>Water quality to meet ANZECC Water Quality Guidelines.</li> <li>Conduct water quality test (external test company) NTU and TSS to determine the best treatment and acceptable levels – (Generally) PH 6.5- 8.5, Turbidity &lt;50NTU, No visible oil &amp; grease</li> <li>Obtain advice for use of flocculants to settle sediment from water.</li> <li>Sedimentation pond to be maintained at low levels to ensure capacity during rainfall event.</li> <li>DO NOT DISCHARGE IF CONTAMINANTS SUSPECTED. Obtain advice.</li> <li>This document is to be read in conjunction with the Construction Soil and Water Management Sub- Plan (CSWMSP) for the Glenwood High School Project. Where ambiguity and/or conflict occurs, the most onerous control/action is to be enforced.</li> </ul>	~		~	Daily durin g disch arge	Weekly	As required	~	SS
5	Adjoining waterways (dewatering, soil erosion & runoff)	<ul> <li>Temporary drainage systems will be established to divert clean waters around the land development areas as appropriate.</li> <li>Erect silt fences, bunds and construct swale drains. • Concrete Bunded washouts plastic lined</li> <li>Inspect atleast weekly &amp; after rainfall.</li> </ul>			~	Daily durin g disch arge	Weekly	As required	~	SS
5	Adjoining waterways (dewatering, soil erosion & runoff)	<ul> <li>Maintain and/or replace as required.</li> <li>Refer NSW Department of Housing's Managing Urban Stormwater (2004).</li> <li>Street sweepers will be employed on regular basis.</li> <li>This document is to be read in conjunction with the Construction Soil and Water Management Sub- Plan (CSWMSP) for the Glenwood High School Project. Where ambiguity and/or conflict occurs, the most onerous control/action is to be enforced.</li> </ul>								

## **RICHARD CROOKES**

6	Sewer (Trade waste)	<ul> <li>No paints or other chemical to be poured down drains.</li> <li>If required, obtain trade waste licence for discharge or local council approval.</li> </ul>			~				As required	~	SS
7	Land (contaminate d soils, imported fill)	<ul> <li>Stop work if unexpected potentially contaminated soils are encountered.</li> <li>Obtain waste classification from consultant in accordance with EPA guidelines Environmental Guidelines: Assessment, Classification &amp; Management of Liquid &amp; Non-Liquid Wastes (June 2004)</li> <li>www.environment.nsw.gov.au/waste/envguidlns/in dex.htm.</li> </ul>	~	~	~	Daily	Weekly	~	As required	~	SS
7	Land (contaminate d soils, imported fill)	<ul> <li>Where required a Remediation Action Plan will be developed and implemented.</li> <li>Sign off by Site Auditor may be required to validate cleanup.</li> <li>Any groundwater or ponded rainwater will be tested and classified by consultants prior to disposal.</li> <li>Check geotech requirements. Ensure soil classification suitable for land use ie. Schools, residential, commercial etc.</li> </ul>	~	~	~	Daily	Weekly	~	As required	~	SS
7	Land	<ul> <li>If odorous soils (rotten egg gas) or grey/yellowed mottled soils encountered, stop work.</li> <li>The requirements to import fill will be minimised by utilising on site cut material wherever possible.</li> <li>All analysis certificates shall be handed over as part of the completion documents to the client.</li> <li>Record all imported fill on Form 25.08 - Product Identification &amp; Traceability.</li> <li>Mark up locations where fill compacted in site plan. Survey if required.</li> </ul>									

## **RICHARD CROOKES**

		For design and construct is herefor to the design										
8	Resources - water, materials,	<ul> <li>For design and construct jobs, refer to the design specification for ESD requirements and product choices.</li> </ul>		~		$\checkmark$					~	PM
	energy	Buy local wherever possible to reduce impacts of transport on environment.										
9	Noise	<ul> <li>Refer to DA/SSD for noise restrictions and working hours.</li> </ul>	$\checkmark$		$\checkmark$	$\checkmark$	Daily	Weekly	$\checkmark$	As required	$\checkmark$	SS
		Use hoarding or acoustic mats as required.										
		Situate generators and plant away from sensitive receivers.										
		<ul> <li>Turn off machinery. Maintain equipment and stop noisy plant until repaired.</li> </ul>										
		No early deliveries.										
10	Vibration	<ul> <li>Conduct dilapidation report prior to work starting, as required in consultation with the applicable Consultant Reports/Sub-Plans.</li> </ul>	$\checkmark$		~	$\checkmark$	Daily	Weekly	$\checkmark$	As required	$\checkmark$	SS
		Limit the use of vibratory rollers, rock breakers,										
		impact piling etc adjacent to buildings (>7m). •										
		Regenerated noise may also transfer through										
		bedrock and building structures. •										
		Obtain advice as required										
11	Community Concerns	Refer community approaches to SINSW Comms     (issue handout card)	$\checkmark$				Daily	Weekly		As required		PM
		Provide contact name for inquires.										SS
		Advice locals of "noisy" work.										
		<ul> <li>If required in noise sensitive areas and/or in response to complaints, engage consultants to undertake monitoring at nominated receivers.</li> </ul>										
		<ul> <li>Vehicles will not be permitted to queue outside the site or in residential areas unless a defined area is established which does not adversely impact on neighbours.</li> </ul>										

## **RICHARD CROOKES**

## CONSTRUCTIONS

12	Flora	Review planning documentation to determine the presence of any protected, threatened or significant flora. Obtain approvals as required.	~	~	$\checkmark$	Daily	Weekly		As required	$\checkmark$	SS
		Engage aborist to develop tree management plan     or refer DA and aborist reports.									
		Education and training at site toolbox meetings     and induction.									
		Report all sightings to the site manager.									
		Fence or barricade protected flora at the drip zone. Erect Keep Out signage.									
		Do not stack materials under/against trees.									
		<ul> <li>The potential for reuse of vegetative wastes by mulching, chipping or on-site placement of trunks or limbs shall be reviewed for each project.</li> </ul>									
13	Fauna	All native animals protected.	~	$\checkmark$	$\checkmark$	Daily	Weekly	$\checkmark$	As required	$\checkmark$	SS
10		• Review planning documentation to determine the presence of any protected, threatened or significant fauna. Obtain approvals as required.				2 0					
		Site rules/induction to include information regarding of the									
		For injured animals, to relocate call WIRES									

## **RICHARD CROOKES**

## CONSTRUCTIONS

14 15	Waste Litter	<ul> <li>Hazardous materials surveys to be completed.</li> <li>Materials to be removed prior to demolition</li> <li>Registers and waste disposal requirements as per WorkCover and EPA requirements for removal, storage, transport and disposal.</li> <li>General site wastes –use one bin system and sort in contractors yard to produce quantities of material for recycling, reuse, disposal etc.</li> <li>Empty drums are to be taken off-site for disposal. • Empty drums shall be crushed prior to recycling/disposal.</li> </ul>	4	×	V	Daily	Weekly	~	As required	~	SS
16	Landfilling	<ul> <li>Do not overfill skip bins. Provide plenty for use. Cover where potential for windblown litter.</li> <li>Reduce, reuse and then dispose</li> <li>Landfill space scare leading to increased tipping</li> </ul>				Daily	Weekly		As required	~	SS
		<ul> <li>Landfill space scare leading to increased tipping costs</li> <li>Dispose of hard construction wastes for recycled gravels and sands</li> <li>Do not send soil to landfill until alternatives for beneficial reuse have been explored as per consultants advice.</li> </ul>									
		<ul> <li>Consideration should be given to chipping of the vegetation and reuse</li> <li>Reuse packaging to protect works</li> </ul>									

## **RICHARD CROOKES**

## CONSTRUCTIONS

17	Chemicals	<ul> <li>Chemicals to be stored in bunded areas (impervious + 110% of largest container) away from stormwater drains &amp; pits.</li> </ul>	$\checkmark$	~	Daily	Weekly	√	As required	SS
		<ul> <li>Refer Workcover Code of Practice for Storage &amp; Handling of Dangerous Goods, EPA Guidelines for Bunding &amp; Spill Management. Appropriate chemicals storage is in conformance with:</li> </ul>							
		$\rightarrow$ AS 1940 The Storage and Handling of Flammable and Combustible Liquids							
		→ Storage and Handling of Dangerous Goods							
		WorkCover Code of Practice 2005– refer p. 86 •							
		<ul> <li>EPA requirements http://www.environment.nsw.gov.au/mao/bunding spill.htm</li> <li>Ponded water within bunds will not be discharged to stormwater.</li> </ul>							
		<ul> <li>Fuel and hydraulic leaks to be cleaned up immediately.</li> </ul>							
		<ul> <li>Drilling muds to be contained within bunds and reused.</li> </ul>							
		<ul> <li>Liquid paints NOT to be poured down drains. Spread on waste cardboard or similar and leave to dry. Paint brushes to be rinsed and paint solids allowed to settle. Container of paint solids to be disposed to liquid waste facility.</li> </ul>							
		<ul> <li>Construct concrete washout pit for washout, away from stormwater drains. Send back to batch plant where possible.</li> </ul>							

## **RICHARD CROOKES**

CONSTRUCTIONS

	Chemicals	<ul> <li>Concrete cuttings to be contained and wetvac to prevent runoff into stormwater drains.</li> <li>Storage of bulk fuels (&gt;200L) on site is prohibited. All refuelling shall be undertaken by a mobile facility with appropriate spill control and containment control equipment.</li> <li>MSDS's must be provided to the Site supervisor prior to a chemical being received on site and by subcontractors using chemicals/products.</li> </ul>	~	V		Daily	Weekly	×	As required	SS
18	Traffic	<ul> <li>Develop and implement traffic management plans. Submit to local council as required.</li> <li>Signage and notices regarding disruptions.</li> <li>Use crushed concrete, mulches etc along site access roads.</li> <li>Install shakers and wheel wash as required.</li> <li>Organise regular street sweeping.</li> <li>Haulage routes and rules will be provided to subcontractors prior to commencing on site.</li> <li>All loads of soil, demolition wastes, general wastes etc are to be tarped.</li> </ul>	~		~	Daily	Weekly		As required	SS

## **RICHARD CROOKES**

19	European heritage	<ul> <li>Education and transmission and induction.</li> </ul>	aining at site toolbox meetings	$\checkmark$	$\checkmark$	$\checkmark$	Daily	Weekly	As required	~	SS
		• It is illegal to des	troy heritage items.								
			regional environmental plans, or on the Register is to be consulted prior to work								
		<ul> <li>Obtain excavation Council of NSW</li> </ul>	on permit issued by the Heritage if required.								
			cs or sites discovered during Il be reported to the NSW								
		Work in the subj advice is obtained	ect area to cease until specialist ed.								
		• The area will be restrict access.	fenced and signs erected to								
			ants may be required to provide ition/construction processes and								
20	Aboriginal heritage	• Education and tr and induction.	aining at site toolbox meetings	$\checkmark$	$\checkmark$	$\checkmark$	Daily	Weekly	As required	$\checkmark$	SS
	nontago	• It is illegal to des	troy heritage items.								
		Check the Abori Management Sy	ginal Heritage Information stem (AHIMS).								
		• Also check the r	egister of the National Estate.								
		Obtain approval	from NPWS (Section 90 consent).								
21	Aboriginal heritage		Aboriginal relics discovered during Il be reported Heritage	~	~	$\checkmark$	Daily	Weekly	As required	$\checkmark$	SS
			Council representatives may be tor stripping/excavation.								
		• Work in the subj advice is obtained	ect area to cease until specialist								
	1										

## **RICHARD CROOKES**

20	Emergency Preparedness	<ul> <li>Spill kit onsite.</li> <li>Refer to the MSDS for advice and procedures.</li> <li>All spills must be reported to the FM &amp; cleaned up. Complete RCC Accident /Incident report.</li> <li>Sed pond pumped out regularly to maintain capacity in case of emergency</li> <li>Ensure you know where stormwater drains are and have materials to block them in case of a fire.</li> </ul>	~	~	Daily	Weekly	As req	uired	SS
21	External lighting	<ul> <li>External lighting in compliance with AS 4282-2019 Control of obtrusive effects of outdoor lighting         <ul> <li>All site compound access and operation lighting is limited to use during the approved constriction hours.</li> <li>There are no external lighting elements utlised outside of construction hours.</li> </ul> </li> <li>Lighting associated with the development/project are designed &amp; installed in accordance with the relevant and applicable Standards, Requirements and Guidelines approprioate to the Project/Development</li> </ul>		✓	Daily	As required	As req	uired	

#### 6.3 ENVIRONMENTAL POLICY

Refer to the following page for Richard Crookes Constructions Pty Ltd Environmental Policy. The policy is not embedded in this document, it is provided as an attached appendix so that it can be displayed/updated/revised in isolation if required.

## ENVIRONMENTAL POLICY

Richard Crookes Constructions Pty Limited promotes and encourages a sustainable environment throughout our business activities and sources our supplies and services in ways that prevent pollution and promote compliance with legal and other requirements.

The company implements Environmental Management System to aid us in meeting our corporate responsibilities. The System is certified as meeting the requirements of AS/NZS ISO 14001:2016 Environmental Management Systems.

These form part of the company's Project Management Plans and are supported by company procedures and guidelines.

Management intends that all employees of our company, relevant subcontractors and suppliers, are made aware of their environmental responsibilities and the environmental impacts associated with their activities, products and services.

Our company objectives for continual improvement in environmental management include:

- Reducing the number of environmental notices issued on the projects by implementing a program of inductions, training and monitoring.
- Minimising the impacts to the community through the development of project specific Environmental, Traffic management plans, stakeholder consultation plans and by timely and appropriate response to complaints.
- Minimising impacts on the environment using dust, soil and water, waste and chemical management practices that are regularly inspected and maintained.
- Achieve a waste minimisation figure of 85% through monthly reporting

The Continual improvement of the project environmental management plans and progress with achieving the company's objectives will be reviewed during management meetings, project reviews and following the results of internal and external audits.

The Policy will be made available to the public and interested parties on request. This Policy will be reviewed every two years.

anne Goakes

Jamie Crookes Managing Director 26th February 2022

## 6.4 UNEXPECTED FINDS PROTOCOL (CONDITION B15; ITEM B & C)

Refer to the following page for Richard Crookes Constructions Pty Ltd Unexpected Finds Protocol. The protocol is not embedded in this document, it is provided as an attached appendix so that it can be displayed/updated/revised in isolation if required.



GLENWOOD HIGH SCHOOL 1278

# UNEXPECTED FINDS PROTOCOL

26 June 2023

#### **REVISION REGISTER**

REVISION DATE	REVISION DESCRI	PTION PMS INITIALS (ACCEPTANCE OF CHANGES)
20/06/2022	Original issue	SK
16/09/2022	Planning Secretary Submission	JS
21/10/2022	JACOBS-GCOR-000264	JS
12/12/2022	IEA RFI's & Improvement Opportunities (Feedback)	JS
23/6/2023	IEA RFI's & Improvement Opportunities (Feedback)	JS

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## UNEXPECTED FINDS PROTOCOL TRAINING REGISTER

Name	Project Position	Signature	Trained By	Tool box date

# **1** INTRODUCTION

### 1.1 PURPOSE

The management of Unexpected Finds is vitally important for the safety of the workforce, the preservation of artifacts and effective retification to ensure the correct outcome is achieved. The Unexpected Finds Protocol serves to address the following SSD-23512960 Consent Conditions:

- B15b) an unexpected finds protocol for contamination and associated communications procedure to ensure that potentially contaminated material is appropriately managed in accordance with the recommendations of the Report of Detailed Site (Contamination) Investigation (Ref: 94626.00), prepared by Douglas Partners and dated 12 November 2021;
- B15c) an unexpected finds protocol for Aboriginal and non-Aboriginal heritage and associated communications procedure;

#### 1.2 GENERAL PRINCIPLES

The RCC Unexpected Finds Protocol is separated into two primary sections, 1. Unexpected Finds (Asbestos) & 2. Unexpected Finds (Non-Asbestos). Noting the industry wide push to increase awareness and education around asbestos and the risks associated with the substance, specific reference is made to this as an unexpected find to reflect the Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018 (2005)].

The Unexpected Finds Protocol is to be utilised & read in-line with Figure 1: Unexpected Finds Protocol – Assessment & Action Flowchart. This flowchart provides a clear & linear approach to the implementation of the protocol such that unexpeted finds can be suitably managed in accordance and compliance with SSD-23512960 Consent Conditions.

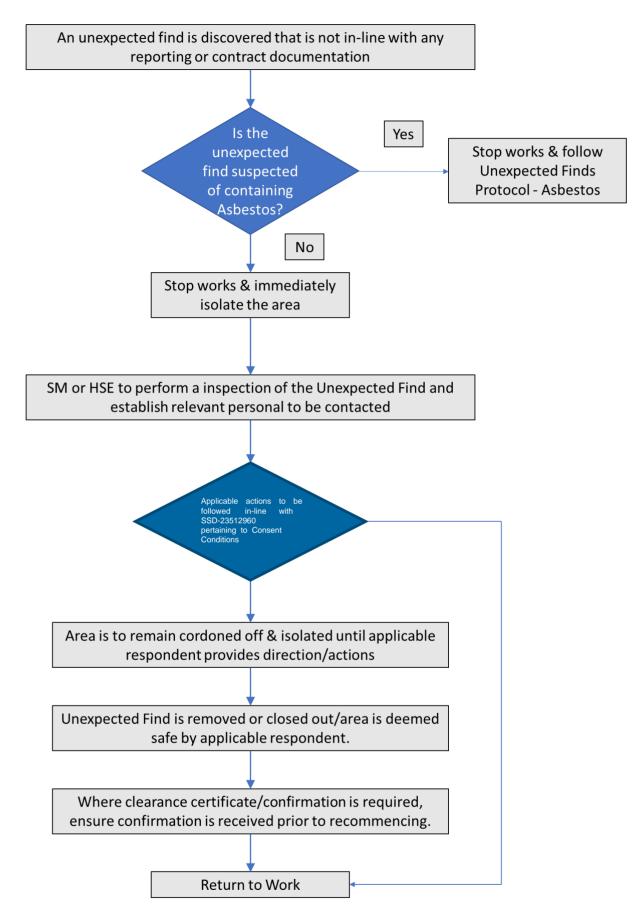


Figure 1: Unexpected Finds Protocol – Assessment & Action Flowchart

# 2 UNEXPECTED FINDS – ABESTOS

# 2.1 PURPOSE

The management of asbestos containing materials is important to ensure the Asbestos Containing Material (ACM) are not damaged nor deteriorate to such an extent that site workers, public, external contractors or visitors are unnecessarily exposed to airborne asbestos fibres.

The requirements of the contractor site induction and permit to work system will aid in the management of ACM's throughout the site. Any other unexpected finds that are or could be potentially hazardous will follow the same protocol as ACM.

# 2.2 GENERAL PRINCIPLES

The RCC's principles of asbestos management have been adapted from general principles published in the Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018 (2005)]. These principles are summarised below:

 Consideration should be given to the removal of ACM during any renovations, refurbishments or maintenance work in preference to other control measures such as encapsulation, enclosure and sealing.

• The WHS Regulation requires all ACM within the construction area to be labelled. (Refer 6.3 Labelling)

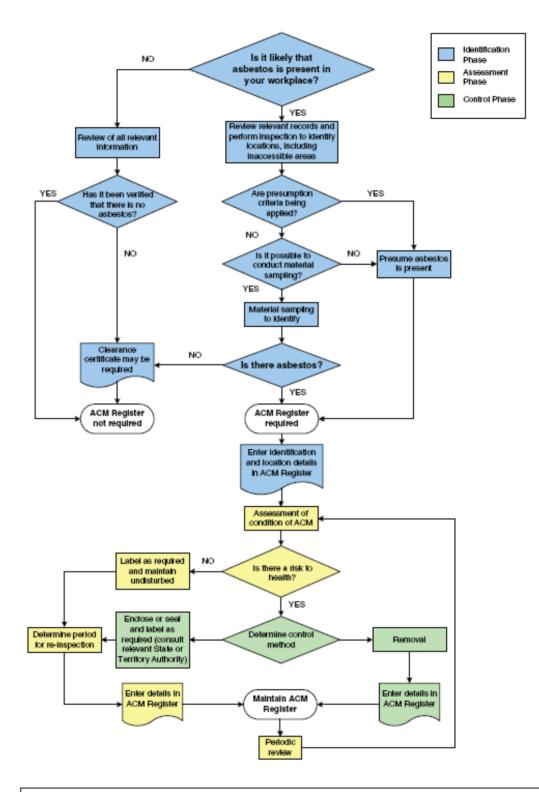
• Where ACM is identified or presumed, the locations and type of ACM are to be recorded in

the ACM Register located within the Asbestos management plan folder.

- A risk assessment must be performed on all identified or presumed ACM.
- Control measures must be established to prevent exposure to airborne asbestos fibres and should take into account the results of risk assessments conducted for the identified or presumed ACM.
  - All workers and contractors on site etc. must be advised of the ACM Register at time of induction, and as requested, permitted access to the register for their review
- Only competent persons should undertake the identification of ACM.

• All workers and contractors on site where ACM are present or presumed to be present, and all other persons who may be exposed to ACM as a result of being on the premises, must be provided with full information on the occupational health and safety consequences of exposure to asbestos and appropriate control measures. The provision of this information should be recorded.

- Reasonable steps must be taken to identify all possible locations of ACM within the site.
- Once a risk assessment has been completed and controls established, a SWMS is to be developed and submitted to RCC'S site management team for approval



Reference Code of Practice for the Control and Management of Asbestos in Workplaces (NOHSC 2018 [2005])

#### Figure 2: General principles of an asbestos management plan

Source: Code of Practice for the Management and Control of Asbestos in Workplaces [NOHSC: 2018 (2005)]

# 2.3 OBJECTIVES

- Remove all high-risk asbestos items where possible.
- Deliver effective asbestos management work programs.
- Ensure that no one is exposed to airborne asbestos fibres.
- Ensure compliance with this Asbestos Management Plan.
- Ensure the asbestos database and register is accurate.
- Comply with State and Commonwealth legislation.
- Remove asbestos containing items when and where possible

### 2.4 **REGULATORY REQUIREMENTS**

This asbestos management plan is consistent with removal, encapsulation, transport, and disposal or otherwise potential disturbance of asbestos containing materials. All these activities shall be performed in accordance with relevant Commonwealth and State Acts, Regulations, Codes of Practice, Advisory Standards and Industry Standards.

#### 2.4.1 STATE LEGISLATIVE REQUIREMENTS – NEW SOUTH WALES, ACT & QUEENSLAND

Relevant State legislation includes:

- Work Health and Safety Act 2011
- Work Health and Safety Regulation 2017

#### 2.4.2 CODE OF PRACTICE/GUIDES

Key Codes of Practice and Guidance Notes include:

• Code of Practice for the Management and Control of Asbestos in the Workplaces [NOHSC: 2018 (2005)].

- COP- How to Manage and Control Asbestos in the workplace Oct 2018
- COP- How to safely remove asbestos Oct 2018

#### 2.4.3 RCC REQUIREMENTS

• Project Managers (PM) /Site Managers (SM) must be notified before asbestos removal work commences.

- Any new asbestos identified must be explicitly notified to the PM/SM.
- All Staff and Contractors must comply with this Plan.

• Tenants and other interested parties must be notified of the asbestos removal work in advance and asbestos awareness training shall be made available to those persons affected by the asbestos work.

Person/Party	Responsibility
Construction Manager (CM), Project Manager (PM)	<ul> <li>Ensure all staff and contractors are aware of and comply with the plan.</li> </ul>
	<ul> <li>Project management</li> </ul>
	<ul> <li>Identification and bringing to the attention of</li> </ul>
	appropriate staff, any suspect material
	Ensure all contractors working on asbestos are
Site Manager (SM) Health Safety and Environmental Coordinator (HSE)	<ul> <li>Obtain from Subcontractor, copy of Safework Notification (Requirement of RCC Asbestos removal permit)</li> </ul>
	<ul> <li>Ensure project personnel (including contractors) are inducted</li> </ul>
	<ul> <li>Surveying, identification and arranging for sampling of suspected asbestos containing materials by competent persons.</li> </ul>
	<ul> <li>Training and awareness RCC relevant staff</li> </ul>
	<ul> <li>Manage the asbestos works program and</li> </ul>
	removal program
	<ul> <li>Respond to incidents</li> </ul>
	<ul> <li>Document preparation, recording and filing</li> </ul>
	<ul> <li>Manage asbestos inspection contractor</li> </ul>
Contractors (C) and Trades Staff (TS)	<ul> <li>Not to impact on an ACM without complying with the plan</li> </ul>
	<ul> <li>To bring to the attention of the SM/HSE any suspect material</li> </ul>
	<ul> <li>Refer to the plan for guidance to identify, manage, and remove asbestos</li> </ul>
	<ul> <li>Apply for Asbestos Permit to Work when performing asbestos removal work that requires notification.</li> </ul>
	<ul> <li>Undergo RCC Contractor Induction</li> </ul>
	<ul> <li>Develop a site specific asbestos removal control plan, SWMS and Risk Assessmen prior to performing the asbestos removal work</li> </ul>

# 2.5 ORGANISATIONAL RESPONSIBILITIES

# 2.6 CONTROL OF ASBESTOS HAZARDS

As part of the asbestos survey or subsequent resurvey, a 'Competent Person' is required to assess the risk posed by the ACM by completing a Risk Assessment; this will determine what, if any, control measures may be required. Generally, there are four control options available to select:

- Leave in-situ and manage
- Seal/encapsulate
- Enclose/isolate
- Remove

The controls are to be appropriate to the risk of the ACM in question. The following information should be used as a guideline when determining the correct control measure for management of the ACM risks.

If the ACM is friable, and there is a risk to health from exposure, it should be removed.

If the ACM is bonded and in a stable condition, encapsulation may be appropriate if the ACM is unsealed. Encapsulation is not necessarily required if the ACM is unsealed but it does provide another "barrier" to the potential release of asbestos fibre as well as prolonging the lifespan of the material by providing protection against UV and environmental elements etc.

ACM that are bonded, stable and sealed, which are unlikely to be disturbed during normal activities, can be left in-situ and managed, but need to be recorded in the ACM Register.

ACM within the works zone must be removed prior to the commencement of demolition, partial demolition, renovation or refurbishment if they are likely to be disturbed by those works. This is in accordance with the NOHSC Code of Practice for the Safe Removal of Asbestos [NOHSC: October 2018]

#### 2.6.1 REMOVAL OF ACM

#### 2.6.1.1 LICENSED CONTRACTORS

ACM falls into two broad categories (bonded and friable) and the category the ACM falls under will determine how the ACM is removed. If the ACM is classified as friable (e.g. sprayed limpet, pipe lagging, millboard insulation, vinyl sheet floor coverings with asbestos backing material, etc.) it is necessary to engage a contractor who holds a current AS-A class license for friable asbestos removal. The holder of an AS-A licence is also permitted to removed Bonded ACM

If the ACM is classified as bonded ACM (e.g. asbestos cement wall linings, Super Six roof sheeting, vinyl floor tiles, Zelemite electrical boards, etc.) the ACM may be removed by the contractor who holds a current AS-B licence for bonded asbestos removal. The holder of an AS-B licence is not permitted to remove friable ACM.

#### 2.6.1.2 SAFEWORK – NOTIFICATION

For Bonded ACM, in quantities greater than 10m<sup>2</sup>, requiring a licensed contractor (AS-B) to complete the removal works, a Safework (Regulator) Notification is required to be lodged by the Licensed Contractor.

The Notification is required to be lodged a minimum of seven (7) working days prior to starting the removal works. Safework (Regulator) will review the application and return the first two pages, stamped with an official Safework (Regulator) approval. No works are to proceed prior to the receipt of the Notification.

RCC will require a copy of the Safework (Regulator) stamped 'Notification' prior to issuing an RCC Asbestos removal permit.

RICHARD CROOKES

#### 2.6.1.3 SAFEWORK – PERMIT

For all Friable removal works, regardless of quantity, a suitably licensed contractor (AS-A) must apply to Safework (Regulator) for a Permit prior to removal works progressing.

The Permit application is required to be lodged a minimum of seven (7) working days prior to starting the removal works. Safework (Regulator) will review the application and return the first two pages stamped with an official Safework (Regulator) approval and, issue a separate numbered Permit. No works are to proceed prior to the receipt of the permit.

RCC will require a copy of the Safework (Regulator) 'Permit' and the application form prior to issuing an RCC Asbestos removal permit.

#### 2.6.1.4 AIRBORNE FIBRE MONITORING

Airborne fibre monitoring must be conducted during and after the removal of all friable ACM by an independent competent person. For Bonded ACM, air monitoring is conducted as part of the clearance certificate (where required) or as requested by RCC, client or Hygienist. Air monitoring is conducted during the removal works to check the effectiveness of control measures implemented by the contractor (e.g. isolating the removal work area with a sealed, airtight enclosure fitted with negative air generating units, etc.).

Air monitoring is also conducted after the ACM has been completely removed and the work area has passed a satisfactory visual inspection to determine whether the area is safe to reoccupy by unprotected persons.

#### 2.6.1.5 CLEARANCE CERTIFICATES

For all Friable ACM removal works or, as requested by the client or RCC for Bonded works, before an area can be re-occupied post asbestos removal, a clearance inspection must be carried out. The clearance inspection must be undertaken by an independent competent person only and a clearance certificate must be obtained from that competent person. Clearance monitoring is a mandatory requirement for all friable asbestos removal works and is recommended for bonded ACM removal works particularly when the bonded ACM is located internally or near sensitive receptors.

The complete removal of all ACM must be verified with a written clearance certificate which must include details of a satisfactory clearance inspection conducted by the independent competent person. If clearance air monitoring has been conducted, the results of the clearance monitoring must be included as part of the clearance certificate as well.

#### 2.6.1.6 WASTE

All asbestos waste shall be disposed of at an approved landfill disposal site by licensed contractors, and in accordance with the requirements of The Legislation. Transport and disposal of asbestos waste shall be carried out only in a manner that will prevent the liberation of asbestos fibres into the atmosphere.

To achieve "final completion" of an asbestos removal activity, RCC require verification that the asbestos waste has been transported and disposed of in accordance with State/Territory legislative requirements. A copy of the EPA Waste Tracking document is the required documentation for disposal, and a copy of the necessary License for carrying out this removal and disposal is the required documentation for transportation.

#### 2.6.2 RECORD KEEPING

RCC shall maintain detailed records of all activities relating to asbestos works which have been undertaken on site. The records kept should include:

• Copies of all asbestos survey/audit reports, including updates and amendments. (RCC ACM Registers)

- Copies of all Safework (Regulator) notifications and permits
- Risk Assessments and SWMS documents.
- RCC Asbestos removal permits
- RCC Air Monitoring and Clearance certificate records

• Records pertaining to the informing of employees/contractors about the presence of asbestos on site, and those employees have been appropriately trained in safe work procedures and practices.

• Clearance certificates indicating areas are safe to reoccupy after asbestos abatement works; and

- Airborne fibre monitoring results
- Previous versions of the asbestos register

All documentation is to be retained in the one file structure under the heading of Asbestos Management. All asbestos related records and documents are to be retained for a period of 30 years.

#### 2.6.3 LABELLING

Current State and Territory legislation specify the requirements for some form of labelling in buildings. [NOHSC: 2018 (2005)] states all in-situ ACM's should be labelled where practicable. The words 'should' and 'practicable' in the Code of Practice allow some flexibility in the approach to labelling. Similar flexibility is allowed under State and Territory workplace health and safety legislation.

RCC has advised that individual labelling of ACM is to be determined by a Competent Person usually nominated by the client however may not be necessary in every instance.

All friable and high risk asbestos situations, as well as any location containing ACM's where regular maintenance or repair work is likely to be carried must be labelled.

In locations where ACM has been identified within close proximity to the work area, but not required to be removed or disturbed, should be labelled or sign posted warning of 'Asbestos containing material, do not disturb' or in wording similar.

Ref: WHS Regulation, Chapter 8, Asbestos- Clause 469

An asbestos removalist must ensure that:

a) Signs alerting persons to the presence of asbestos are placed to indicate where the

asbestos removal work is being carried out, and

b) Barricades are erected to delineate the asbestos removal area.

#### 2.6.4 WARNING SIGNS

All site areas which are known or suspected to contain ACM's shall have a warning sign at every main entry and around the perimeter of the isolated ACM area. An asbestos register exists for the site and a point of contact must be contacted before undertaking any works.

The warning sign must be clearly visible from all directions leading onto the area.

#### 2.6.5 SAFE WORK PRACTICES

Prior to commencing any works on RCC sites, such as demolition, refurbishment, maintenance or installation of new equipment, the asbestos register must be consulted to determine if any ACM are present which may be disturbed. This ACM must be removed before commencement of the work. If unknown materials, or undocumented materials suspected of containing asbestos are encountered during building works, stop work and follow the Incident response procedures shown in figure 7.0.

If a project is likely to impinge upon ACM, the principal contractor (RCC) must assess the requirement for a licensed asbestos removalist to perform the asbestos removal work. A Safework permit/Notification may be required as part of an RCC, Asbestos Permit to work, prior to the asbestos removal work commencing.

#### 2.6.5.1 MAINTENANCE PROCEDURES

Maintenance tasks that may impact on ACM are to be performed under controlled conditions to prevent the distribution of airborne asbestos fibres. [NOHSC: 2018 (2005)] has procedures for certain maintenance tasks and these must be followed. These maintenance tasks include:

- The drilling of asbestos containing materials
- Sealing, painting, coating of asbestos cement products
- Cleaning leaf litter from the gutters of asbestos cement roofs
- Replacing cabling in asbestos cement conduits or boxes
- Working on electrical mounting boards (switchboards) containing asbestos

#### 2.6.5.2 TOOLS AND EQUIPMENT

Tools and equipment to be used for asbestos removal jobs are required to minimise the generation of airborne asbestos fibres. High-speed abrasive power or pneumatic tools such as angle grinders, sander, saws and high speed drills must never be used. Hand tools are preferred over power tools.

At the end of the removal work, all tools should be:

Decontaminated (i.e. fully dismantled and cleaned under controlled conditions as described in the Code, or

Disposed of in sealed containers similar to that for disposal of the ACM waste product.

Vacuum cleaners used for asbestos cleaning must comply with:

- AS 3544-1988 (Industrial Vacuum Cleaners for Particulates Hazardous to Health) and
- AS4260-1997 High Efficiency Particulate Air Filters (HEPA) Classification, construction and performance.

#### 2.6.5.3 RCC ASBESTOS REMOVAL PERMIT

An RCC Asbestos Removal Permit form must be completed for any work on ACM.

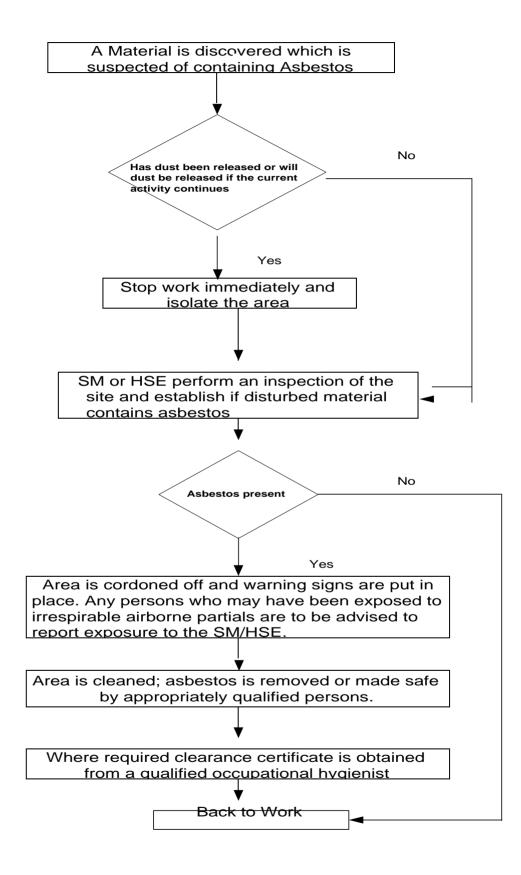
Before being issued with an Asbestos Removal Permit, individuals will be required to peruse the RCC Asbestos Management Plan and the Asbestos Register. Where practicable, contractors should be made aware of the requirements of the plan prior to tendering to ensure they allow for such requirements when quoting.

The Asbestos Removal Permit is designed to ensure appropriate work practices are employed when working with ACM. The Asbestos Removal Permit will document what ACM's are to be removed, encapsulated or otherwise protected, prior to the contracted works proceeding. The Asbestos Removal Permit will also check other requirements such as the need for barricading and airborne fibre monitoring.

The Demolisher or asbestos removal contractor will be responsible to ensure that their workers are aware of their responsibilities and abide by the requirements of the permit.

RCC's Site Manager or HSE Coordinator shall be advised immediately of any incidents of non- compliance with the RCC Asbestos Management plan or the Code.

# 2.7 UNEXPECTED FINDS (ASBESTOS) RESPONSE FLOW CHART



# 2.8 DOCUMENTATION REQUIREMENTS

#### 2.8.1 ASBESTOS CONTAINING MATERIAL (ACM) REGISTER FORM 21.1A

The RCC ACM register will be generated where no report has been received from the client or when additional ACM items have been identified but not listed in previous reports.

The RCC ACM register and the clients ACM report will be monitored and signed off where required, when ACM works are completed.

Supporting information that should be included in the register is:

- Register of ACM items
- Register of items which were samples but found to contain no asbestos
- Certificates of analysis
- Photos
- Floor plans with asbestos containing items marked up

#### 2.8.2 ASBESTOS REMOVAL PERMIT FORM 21.1B

The RCC Asbestos removal permit is required to be completed prior to any ACM removal/remedial works.

The requirements for supporting documentation are listed within the permit.

#### 2.8.3 ASBESTOS CONTAINING MATERIAL (ACM) AIR MONITORING & CLEARANCE CERTIFICATE RECORD FORM 21.1C (NOTE: 1 FORM PER ACTIVITY/ITEM)

Asbestos Containing Material (ACM) Air Monitoring & Clearance Certificate Record is used to collate all associated documentation involved in the identification, removal, remediation, transport and disposal of logged ACM.

### 2.9 TRAINING

#### 2.9.1 ASBESTOS AWARENESS TRAINING

Asbestos awareness training provides participants with a general overview of asbestos including history and background; asbestos types and properties; common asbestos situations; health effects; risk in perspective and management of asbestos. Conducted by RCC person, or RTO . ACT region training conducted by MBA or other ATO accredited company mandatory for Act Workers.

#### 2.9.2 ASBESTOS REMOVAL TRAINING

This course is typically provided by an external registered training organisation (RTO) to personnel who intend to remove bonded ACM, pre-requisite for obtaining a Safework recognised licence

# **3 UNEXPECTED FINDS – NON-ABESTOS**

# 3.1 PURPOSE

The objectives for the project include to provide control measures for the protection and management of known and unknown/unexpected contamination, heritage, archaeological items and features including but not limited to; soil profiles, trees, buildings, structures, artefacts, relics, human remains and places.

Richard Crookes Constructions are to:

• Ensure all risks associated with excavation and exposure of workers or the public to contamination are eliminated where possible.

• Follow the protocols and communication procedures outlined below for unexpected finds related to contamination, archaeological heritage and aboriginal heritage.

• To protect or conserve (where possible) known Indigenous and Non-indigenous heritage and archaeological items and features on and adjacent to the site.

• To protect and conserve (where possible) previously undiscovered heritage and archaeological items and features on or adjacent to the site.

• To manage heritage and archaeological items and features impacted by construction in accordance with regulatory requirements.

# 3.2 OVERVIEW

The objectives for the project include to provide control measures for the protection and management of known and unknown/unexpected contamination, heritage, archaeological items and features including but not limited to; soil profiles, trees, buildings, structures, artefacts, relics, human remains and places. Richard Crookes Constructions are to:

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• To manage heritage and archaeological items and features impacted by construction in accordance with regulatory requirements.

# 3.3 CONTAMINATION & CONTAMINATED MATERIAL

#### 3.3.1 PROTOCOL AND COMMUNICATION PROCEDURE

The possibility exists for hazards that have not been identified to date to be present within fill materials or underlying existing pavements/building on the site. These hazards may present novel conditions which require to be addressed to ensure that the continuation of site works is completed in a manner which achieves the project objectives.

An example of such a condition would be the identification of previously unknown contaminant(s) within site soils and/or excavation dewater.

The applicable protocol for Contamination & Contaminated Material, as noted below, is to be read in conjunction with the Report of Detailed Site (Contamination) Investigation (Ref: 94626.00), prepared by Douglas Partners and dated 12 November 2021 and is relevant to potential soil and water management at the site.

The nature of hazards which may be present and which may be discovered at the site they may be encounted as a result of historical uses are noted as being:

PAEC#	Identified from	Description
1	Site Inspection	Refurbished Demountable Structures may contain remnant asbestos
2	1947 – Present Aerials and Site History Review	Fill placed across the site for the formation of site levels and the backfilling of the creek in the north-east corner of the site
3	1947 – Present Aerials Site History Review	Previous Agricultural Activities

Based on the current investigation, the following potential sources of contamination and associated contaminants of potential concern (COPC) have been identified:

• Potential Source S1 (S1): Hazardous Building Materials

Refurbished Demountable Structures may contain remnant asbestos.

• Potential Source S2 (S2)

Fill: Fill areas of the site were identified during the review of aerial photographs and site inspection. It is not known whether fill materials were sourced from within the site or imported from an off-site source. Filling may be associated with levelling, demolition of former buildings on the site and potential burying of waste.

There is potential for areas of the site to be impacted from fill and demolition waste related COPC including:

- · Heavy metals;
- TRH;
- BTEX;
- PAHs;
- PCBs;
- OCPs and OPPs;
- Asbestos.
- S3: Previous Agricultural Activity (Potential Source S3)

Historical aerial photographs indicate that the site and surrounding area have been used for grazing or other agricultural activities up to the development of the school in 2008. Agricultural activities are commonly associated with use of pesticides.

There is potential for contamination of surface soils from agriculture related COPCs including:

- OCPs;
  - Heavy metals (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel and Zinc).

It is to be noted that the Report of Detailed Site (Contamination) Investigation (Ref: 94626.00), prepared by Douglas Partners and dated 12 November 2021 and the supplementary information noted in Appendix 6.9 – Community Communication(s) Strategy of the CEMP serve to outline the protocol & communication procedure as required by Consent Condition B15 (b) of SSD- 23512960.

Supplementary to Appendix 6.9 of the CEMP, the following prodecural stages and associated information is to be provided to the applicable stakeholders:

- Appliacble respondent to also include relevant subject matter expert or experienced person(s)
- Area associated with the unexpected find to be made safe and then segregated from surrounding works
- Notification to applicable stakeholders in-line with Appendix 6.9 of the CEMP (Community Communication(s) Strategy) as necessary to the outcome of the unexpected finds procedure.

In-line with the requirements of consent condition C43 of SSD-23512960; should any (un)expected contaminated material is encountered during construction work which requires remediation and/or ongoing on-site management of soil or groundwater contamination, then the following requirements must be satisfied:

- (a) the Applicant must engage a NSW EPA-accredited Site Auditor to confirm the appropriateness of the site for the proposed use. The Applicant must obtain from a NSW EPAaccredited Site Auditor a Section A2 Site Audit Statement accompanied by an Environmental Management Plan (if required to manage ongoing contaminants) prepared by a certified consultant and submit it to the Planning Secretary and relevant Council for information no later than one month before the commencement of operation
- (b) the development must not be used for the purpose approved under the terms of this consent until a Site Audit Statement determines the land is suitable for that purpose and any conditions on the Site Audit Statement have been complied with.

# 3.4 ARCHEALOGICAL HERITAGE

#### 3.4.1 PROTOCOL AND COMMUNICATION PROCEDURE

There is potential that unexpected physical evidence associated with the phases of occupation at the site may be present in all areas of the site. Such unexpected remains may include, but not be limited to:

- Deep cut wells, reservoirs and pits associated with occupation at the site;
- Structural remains and artefacts;
- Rubbish pits containing waste and discarded artefacts disposed of away from housing
- Other unexpected, buried remains.

Unexpected finds do not include isolated artefacts and building remains that may form part of fill deposits.

If any unexpected archaeological relics are uncovered during the work, then:

(c) all works must cease immediately in that area and notice is to be given to Heritage NSW and the Planning Secretary;

(d) depending on the possible significance of the relics, an archaeological assessment and management strategy may be required before further works can continue in that area as determined in consultation with Heritage NSW; and

(e) works may only recommence with the written approval of the Planning Secretary.

Some of the attributes of any unexpected finds that may determine if further advice is sought from Heritage NSW regarding the find are:

- Larger previously unrecorded features especially structural remains;
- Evidence for earlier occupation of the site (i.e. pre 1818);
- Rare or unusual find;

If State or locally significant relics are found during works, the Heritage Council of NSW is to be notified in accordance with s.146 of the Heritage Act 1977. This notification takes place in the form of an email to the relevant archaeologist at Heritage NSW. It is noted that Section 4.41 of the Environmental Planning and Assessment Act 1979 does not exempt notification of the discovery of relics under s146, of the Heritage Act 1977, nor the notification of the discovery of Aboriginal objects under s89 of the NPW Act for State Significant Development or State Significant Infrastructure.

Depending on the assessed significance of the find it may be necessary to undertaken additional assessment and management recommendations related to the new information. Work may only recommence with the written approval of Heritage NSW.

# 3.5 ABORIGINAL HERITAGE

#### 3.5.1 PROTOCOL AND COMMUNICATION PROCEDURE

Construction must be undertaken in accordance with the recommendations of the Aboriginal Cultural Heritage Assessment Report (ACHAR) prepared by Tocomwall dated 22 October 2021. The ACHAR notes no Aboriginal archaeological sites, objects, PAD or Places were located within the development and construction footprint.

The proposed works are considered unlikely to harm Aboriginal objects, and no sites, PADs or Aboriginal Places were identified within the subject lands during the survey, consultation and test excavation program. The land within the development footprint is considered to have low to nil potential to retain extant archaeological sites, objects, or PAD.

These recommendations are provided on the basis of the recognition of the legal requirements and automatic statutory protection provided to Aboriginal 'objects' and 'places' under the terms of the National Parks and Wildlife Act of 1974 (as amended), and as outlined in the Due Diligence Code of Practice for the Protection of Aboriginal Objects in New South Wales (DECCW 2010).

Upon discovery of an unexpected find that is suspected to be an Aboriginal Unexpected Find (excluding skeletal/human remains), the following procedure should be followed:

- 1. Cease works & make-safe in the immediate vicinity of the find;
- 2. Notify Heritage NSW immediately;
  - 3. In the event that the unexpected find is identified as a new Aboriginal object:

a. all works must halt in the immediate area to prevent any further impacts to the object(s);

b. a suitably qualified archaeologist and the registered Aboriginal representatives must be contacted to determine the significance of the objects;

c. the site is to be registered in the Aboriginal Heritage Information Management System (AHIMS) which is managed by Heritage NSW under Department of Premier and Cabinet and the management outcome for the site included in the information provided to AHIMS;

d. the Applicant must consult with the Aboriginal community representatives, the archaeologists and Heritage NSW to develop and implement management strategies for all objects/sites; and

e. works may only recommence with the written approval of the Planning Secretary.

## 3.6 UNEXPECTED SKELETAL/HUMAN REMAINS

While not anticipated to be encountered within the GHS construction area; if there is an unexpected discovery of any potential skeletal remains during earthworks or development within the impact footprints, works should cease immediately and the Police and NSW Heritage should be contacted.

If any suspected human remains are discovered and/or harmed the proponent must:

- a) Not further harm these remains;
- b) Immediately cease all work at the location;
- c) Secure the area to avoid further harm to the remains;
- d) Notify the local Police & Heritage NSW;

e) Not recommence any work at the location unless authorised in writing in colsultation with both Police & Hertiage NSW (depending on direction provided by each)

# 3.7 ORGANISATIONAL RESPONSIBILITIES

Person/Party	Responsibility
Construction Manager (CM), Project Manager (PM)	<ul> <li>Ensure all staff and contractors are aware of and comply with the plan.</li> <li>Project management</li> <li>Identification and bringing to the attention of appropriate staff, any suspect material</li> <li>Ensure all contractors working on asbestos are aware of and meet the requirement of the plan.</li> <li>Notify Adjacent neighbours, property owners work type and time frame</li> </ul>
Site Manager (SM) Health Safety and Environmental Coordinator (HSE)	<ul> <li>Obtain from Subcontractor, copy of Safework Notification (Requirement of RCC Asbestos removal permit)</li> <li>Ensure project personnel (including contractors) are inducted</li> <li>Surveying, identification and arranging for sampling of suspected asbestos containing materials by competent persons.</li> <li>Training and awareness RCC relevant staff</li> <li>Manage the asbestos works program and removal program</li> <li>Respond to incidents</li> <li>Document preparation, recording and filing</li> <li>Manage asbestos inspection contractor</li> </ul>
Contractors (C) and Trades Staff (TS)	<ul> <li>Not to impact on an ACM without complying with the plan</li> <li>To bring to the attention of the SM/HSE any suspect material</li> <li>Refer to the plan for guidance to identify, manage, and remove asbestos</li> <li>Apply for Asbestos Permit to Work when performing asbestos removal work that requires notification.</li> <li>Undergo RCC Contractor Induction</li> <li>Develop a site specific asbestos removal control plan, SWMS and Risk Assessment prior to performing the asbestos removal work</li> </ul>

# 3.8 INCIDENT RESPONSE PROTOCOL & FLOW CHART

#### 3.8.1 UNEXPECTED FIND (ASBESTOS & NON-ASBESTOS) IS DISCOVERED

Subcontractor or personnel is to advise Richard Crookes Constructions, in the event they believe they may have located an Unexpected Find.

#### 3.8.2 STOP WORKS AND ISOLTATE

1. Richard Crookes Constructions will immediately stop works to this area and isolate this zone.

2. Richard Crookes Constructions will utilise the Unexpected Finds Protol (Figure 01) to ascertain the appropriate measures to be implemented backed on the nature of the Unexpected Find(s).

a. Should the find appear to be suspected of being Asbestos, then the Asbestos section of the Unexpected Finds Protocol is to be followed, alternatively the Non-Abestos section of the Unexpected Finds Protocol is to be followed.

i. Unexpected Finds (Non-Asbestos): Contamination & Contaminated Material

- ii. Unexpected Finds (Non-Asbestos): Archealogical Heritage
- iii. Unexpected Finds (Non-Asbestos): Aboriginal Heritage
- iv. Unexpected Finds (Non-Asbestos): Skeletal/Human Remains

#### 3.8.3 RECOMMENCE WORKS

Richard Crookes Constructions are only to recommence works when written approval is received from the applicable hold point or competent person(s)/representative applicable to the Unexpected Find (e.g. Heritage NSW to provide written approval to recommence works subsequent to an

# APPENDIX 1 – 21.11 ASBESTOS CONTAINING MATERIAL (ACM) REGISTER

Project Name: Glenwood High School		Repo	ort date:					
Projec	t Number:							
ltem No.	Date Entered	Er by	ntered	Location of ACM	Sample Tested Y/N	Asbestos Bonded/Friable/N A	Description of ACM type & condition, remedial works planned (Scattered pieces, sheeting, pipe lagging etc.)	Date work completed

# APPENDIX 2 – 21.11A ASBESTOS REMOVAL PERMIT

Project Name:				Cor	Company Performing Work:					
Contractors Cont	act:			<b>I</b>	Position:					
Location of works	:					-				
Description of W	Description of Work:									
RCC Asbestos Re	gister – Ite	em Ident	tification nu	ımber:						
Asbestos Type										
Bonded Less than I	0m² □		No Licens	e or Pern	nit / Applicatio	n required				
Bonded Greater that AS-B Lic. No:		ı 	Copy of V start.	VorkCov	er Stamped, N	lotification	to be ol	otained from c	ontracto	r prior to
Friable 🗆				to be	Cover stam obtained fror		or	orkCover Per		_
	Permit	begins	1				Permit	t expires		
	/ Time / Time / Time / Time	:		am/pm am/pm am/pm am/pm	Date: Date: Date: Date:		Time: Time:		ai	m/pm m/pm m/pm m/pm
	Time				Contact inf				a.	n/pm
Name of RCC Con	tact:			<u> </u>	Tel:			( )		
		A	Authorisati	ion by c	ompany rep	resentati	ve			
The above work is a being maintained for				o the follo	wing action be	ing taken p	rior to v	vork starting a	nd proce	edures
RCC Representativ	e Name:			Position:				Signature:		
			Yes	N/A					Yes	N/A
Work area has been to works proceedin	g	prior			Contractor the RCC, A	CM Manage	ement p			
Risk Assessment co Will the area be occ		nothe			Disposal me Air conditio			entilation		
works		ing the			isolated:	-				
ls it necessary to va during the works	cate the bu	ilding			Electrical iso from Electri			nfirmation		
SWMS reviewed by					Signage / Ba					
Air monitoring requ	uired				Clearance c	ertificate re	equired			
	Weekly Review of Permit									
					Week I	Week	2	Week 3	M	/eek 4
Signature and positi	on of perso	on issuing	the permit:							
Signature of the per	son condu	cting the	Work:							

# APPENDIX 3 – 21.11B ASBESTOS CONTAINING MATERIAL (ACM) AIR MONITORING AND CLEARANCE CERTIFICATE RECORD

In all Friable removal works and in other cases where requested by RCC or the client, a clearance certificate may be required post completion of ACM removal works. Clearance certificates may require air monitoring to be conducted during the removal process. All monitoring records are to be maintained and kept for a period of 30 years post completion. Separate form required for each location.

Project Name:			Glenwood High School						Project Number :		127	78	
Clearance Certif	ficate I	ocati	on/item deta	ils									
RCC ACM Regi	ster No	o:	Item descr	iption, type & Lo	cation				Rei	move	ed	Date re	emoved
(Refer to ACM re	egistei	r)	(Wall shee	ting, Bonded)					Yes	S	No		
Air Monitoring R	esults												
Monitoring L ID;		Sam locat		Start time (24hour)	Finish time (24 Hour)	Aver (mL)	age flow rate	Fibres/Fields			Result F	bres/ml	-
Completion sign	off by	com	petent perso	n									
Copy of final clearance certificate attached				Co	Copy of waste transport receipt attached□								
Copy of waste disposal dockets attached				Co	Copy of ACM work permit attached								
Name:				Position:			Signature:			Da	ate:		



# APPENDIX 4 – 40.3 SAFE WORK METHOD STATEMENT: REMOVAL OF BONDED ASBESTOS SCATTERED AT RANDOM

[PCBU Contractor Name, contact deta	ails]	Principal Contractor (PC) [Name, contact details]			
Works Manager: Contact Phone:		Date SWMS provided to PC:		Revision No:	
Work activity/trade:		Project Name::			
HIGH RISK CONSTRUCTION WORK: HRCW	Risk of a person falling more than 2 metres ( <i>Note</i> : in some jurisdictions this is 3 metres)	Work on a telecommunication tower	Demolition of lo	bad-bearing structure	
	Likely to involve disturbing asbestos	Temporary load-bearing support for structural alterations or repairs	Work in or near	a confined space	
	Work in or near a shaft or trench deeper than 1.5 m or a tunnel	Use of explosives	Work on or near piping	r pressurised gas mains or	
	Work on or near chemical, fuel or refrigerant lines	Work on or near energised electrical installations or services	Work in an area that may have a contaminated or flammable atmosphere		
	□ Tilt-up or precast concrete elements	□ Work on, in or adjacent to a road, railway, shipping lane or other traffic corridor in use by traffic other than			
	Work in areas with artificial extremes of temperature	Work in or near water or other liquid that involves a risk of drowning	Diving work		
Person responsible for ensuring compliance with SWMS:		Date SWMS received:			
What measures are in place to ensure compliance with the SWMS?					
Person responsible for reviewing SWMS control measures:		Date SWMS received by reviewer:			
How will the SWMS control measures be reviewed?					
Review date:		Reviewer's signature:			

RICHARD CROOKES		
Procedure (in stads)'s	Possible Hazards	Control Measures
Break the job down into steps. Each of the steps should accomplish some major tasks and be logical	Situation with potential to harm – injury, illness, damage, environmental impact Eg.loss of control of plant	What actions are necessary to eliminate or minimise the hazards – elimination, substitution, isolation, engineers solutions and lastly PPE
Isolation/protection of Asbestos containing material (ACM)	Disturbance of ACM Incorrect removal	Isolate identified material by removing workers form the area and barricading off minimum radius of 5 metres – Danger tape. Warning signage to be placed at the barrier to area warning of ACM Restrict access to one entry point ONLY Asbestos register to be updated in accordance with ACM Register. Initiate RCC ACM works permit process
Establish works area/removal are	Unauthorised entry to area	Identify the boundary for the works area i.e the location where ACM is to be removed from and identify with danger tape and signage advising ACM removal in progress. Identify area for removal site i.e. the isolated region around the works, identify with danger tape & signage warning of restricted access ACM removal works in progress.
Protection of surrounding areas/adjoining structures	Adjoining areas contaminated by removal process	Prior to any removal: Protection in the form of 200 micron plastic to be secured to protect adjoining finishes (Floors/walls) Isolation/lock out of mechanical ventilation required prior to starting
Sealing of ACM prior to removal	Disturbance of ACM Water run off Electrical outlets i.e. switches, lights, outlets, alarms etc.	Ensure all electrical items are isolated from supply. Ensure all Any drains within the area to be protected. PPE as identified above. Low pressure coarse spray to be applied to all faces/edges. A mixture of water & PVA solution or detergent or paint can be used as a wetting agent. Ensure surface is saturated but minimise run off Ensure ACM is saturated through it's full depth prior to removal/disturbing. Spray all accessible voids where dust may exist
Removal process	Damage to sheets General disturbance Manual handling	Determine methodology for removal Remove any loose sections prior to removing fixed sheets. Ensure all disturbed areas remain saturated, re-apply dampening method as required. Avoid breaking sheets where possible. Should sheets continually break, reassess method of removal. Support sheets prior to removing fixings

Procedure (in steps):	Possible Hazards	Control Measures
		Where possible, remove nails/fixings or punch nail heads through sheeting. 2 person lifts for heavy or awkward materials. PPE as specified above.
Packaging waste	Packages become loose and tear Materials spill onto ground Manual handling	<ul> <li>For small pieces, ACM to be packaged into man-handleable packages, enclosed in heavy duty 200 micron plastic. (Bag or wrap) Where possibility of tearing is identified 2 layers may be required.</li> <li>Bags to be labelled with appropriate warnings similar to ' Caution Asbestos' or Asbestos within, do not open bag.</li> <li>Where bags are used, opening to be twisted and folded over and fixed with tape or other means.</li> <li>For larger sections, skips may be used but must be in good condition.</li> <li>Skip is to be lined in 2 layers of 200 micron plastic. ACM must be kept wet.</li> <li>Once skip is full, it's contents must be sealed with the plastic sheeting.</li> </ul>
Clean up	Adjoining areas contaminated by removal process Manual handling	Ensure all disturbed areas remain saturated, re-apply dampening method as required. Start from the top and work down cleaning ledges, sills & high flat areas that ACM can settle. Remove any loose items. Start cleaning and removing plastic from furthest workpoint from exit working towards the exit point. The use of an Asbestos vacuum is permitted for dry decontamination cleaning. All waste to be disposed of in Same way to ACM. (Lined bin, plastic bag 200 micron) All PPE to remain on till area is decontaminated. Scrape/clean off excess materials from boots, tools etc with damp rag, into Asbestos waste bag. All disposable PPE to be placed in Asbestos waste bag and not re-used.
Disposal of waste	Incorrect disposal of waste	Materials to be disposed of at registered waste management fascility, capable of receiving Hazardous waste. Receipts of waste disposal to be collected and recorded in Asbestos register.
		Receipts of waste disposal to be collected and recorded in Aspestos register.
Other items as identified		

#### Project

Company

I/We the undersigned, employees of \_\_\_\_\_\_, declare that I/we have attended "Work Activity Training" in the tasks to be performed on this project and have had an opportunity to participate in the development / review of the SWMS. We acknowledge that all work will be performed in the manner described within the Safe Work Method Statement.

Date	Employee Name (print)	Certificate/Licence No.:	Signature	SWMS Trainer Name

Project: (List Project N	lame)						Signed	by Seni	or Manage	ment Com	pany Rep.
contractor: Richard Cro	okes Constructions. 214 Wil	lough	by Rd, Crows N	Vest 2065	5		Signatu	re: (Wh	o has revie	ewed the S	WMS)
	/MS - Removal of BONDED A						Title: (Y	our title	)		
ontaining material ONL Non licensed - Minor wo	Y (ACM) quantity less than 1 orks)	0 squa	are metres R	evision d	ate:		Date: (D	ate revi	iewed prio	r to release	)
Potential E	Environmental Impacts:		Safety E	quipment			Permits		Persona	Protective E	quipment (PPE)
Air (odour, dust, fumes)	Spills to ground		Fire extinguish	ers		Hot Work			Hard Hat		
Noise	Soil Erosion		Barricades			Excavatio	n		High Vis.	Clothing	
Vibration	Contamination/Haz materials		Ventilation			Confined	Space		Steep cap	oped boots	
Spills to drains/waterways	Traffic / community		Lighting			Tag out / I	.ock out		Face Shie	d/Welding Sh	ield 🗆
Flora	🗆 Fauna		Ladders/mobil	e scaffold		Formwork	stripping		Safety GI	asses	
Waste:	☑ Other:		Traffic control			Fall Arrest	Systems		Gloves		
			Welding scree	ns		Scaffold			Hearing F	rotection	
			Dust extraction	ı		Other: RC	C Asbestos	Permit	Fall Prote	ction/Harness	
			Emergency res	sponse		to Work			Other Tas	k Specific: Fa	ce mask - Type 2
						L			Cartridge, Velcro typ	, Disposable o be).	ver-alls (Non -
rocedure (in steps):	Possible Hazards		Risks	Inheran Sco (risk wi contro	re th no		Control N	leasures	;	Residual Risk Score (risk after controls in place)	Resp. Person
reak the job down into steps. Ea f the steps should accomplish so najor tasks and be logical	ach ome – injury, illness, damage, environmental impact Eg.loss of control of plant	plant,	Eg. Damage to buildings etc,injury or death, spills	Refer to R Assess Calculator Score 1	ment F 21.5	minimise th		elimination	eliminate or n, substitution, d lastly PPE	Refer to RCC Risk Assessmen t Calculator F 21.5 Score 1, 2, 3	
olation / protection of Asbe	stos Disturbance of ACM	Dust	inhalation	1		Isolate ide	ntified mat	erial by r	emoving	3	HSE

Procedure (in steps):	Possible Hazards	Risks	Inherant Risk Score (risk with no controls)	Control Measures	Residual Risk Score (risk after controls in place)	Resp. Person
containing material (ACM)	Incorrect removal	Long term heath effects Cross contamination Whole of site closure		workers form the area and barricading off minimum radius of 5 metres – Danger tape. Warning signage to be placed at the barrier to area warning of ACM Restrict access to one entry point ONLY Asbestos register to be updated in accordance with ACM Register. Initiate RCC ACM works permit process		SM
Establish works area / removal area	Unauthorised entry to areas	Workers exposed to ACM	2	Identify the boundary for the works area i.e the location where ACM is to be removed from and identify with danger tape and signage advising ACM removal in progress. Identify area for removal site i.e. the isolated region around the works, identify with danger tape & signage warning of restricted access ACM removal works in progress.	3	SM, HSE Competent Person
Protection of surrounding areas / adjoining structures	Adjoining areas contaminated by removal process	Workers exposed to ACM	1	Prior to any removal: Protection in the form of 200 micron plastic to be secured to protect adjoining finishes (Floors / walls) Isolation / lock out of mechanical ventilation required prior to starting	3	Competent Person
Sealing of ACM prior to removal	Disturbance of ACM	Cross contamination	2	Ensure all electrical items are isolated	3	Competent

Procedure (in steps):	Possible Hazards	Risks	Inherant Risk Score (risk with no controls)	Control Measures	Residual Risk Score (risk after controls in place)	Resp. Person
	Water run off Electrical outlets i.e. switches, lights, outlets, alarms etc.	to other areas Electrocution Explosion Slips / falls		from supply. Ensure any drains within the area are protected. PPE as identified above. Low pressure coarse spray to be applied to all faces / edges. A mixture of water & PVA solution or detergent or paint can be used as a wetting agent. Ensure all exposed surfaces (where exposed) are saturated but minimise run off, prior to removal / disturbing. Ensure ACM is saturated (where exposed), prior to removal / disturbing. Spray all accessible voids where dust may exist		Person
Removal process	Damage to sheets General disturbance Manual handling	Workers exposed to ACM Dust generation Cross contamination to other areas Strains / cuts	1	Determine methodology for removal Remove any loose sections prior to removing fixed sheets. Ensure all disturbed areas remain saturated, re-apply dampening method as required. Avoid breaking sheets where possible. Should sheets continually break, reassess method of removal. Support sheets prior to removing fixings Where possible, remove nails / fixings or punch nail heads through sheeting. 2 person lifts for heavy or awkward	3	Competent Person

Procedure (in steps):	Possible Hazards	Risks	Inherant Risk Score (risk with no controls)	Control Measures	Residual Risk Score (risk after controls in place)	Resp. Person
				materials. PPE as specified above.		
Packaging waste	Packages become loose and tear Materials spill onto ground Manual handling	Workers exposed to ACM Dust generation Whole of site closure Environmental damage Strains / cuts	1	For small pieces, ACM to be packaged into man handle-able packages, enclosed in heavy duty 200 micron plastic. All asbestos waste must be double bagged or wrapped in 2 layers of 0.2mm plastic Bags to be labelled with appropriate warnings similar to 'Caution Asbestos' or Asbestos within, do not open bag. Where bags are used, opening to be twisted and folded over and fixed with tape or other means.	3	Competent Person
Clean up	Adjoining areas contaminated by removal process Manual handling	Workers exposed to ACM Dust generation Environmental damage Strains	1	Ensure all disturbed areas remain saturated, re-apply dampening method as required. Start from the top and work down cleaning ledges, sills & high flat areas that ACM can settle. Remove any loose items. Start cleaning and removing plastic from furthest work point from exit working towards the exit point. The use of an Asbestos vacuum is permitted for dry decontamination cleaning. All waste to be disposed of in Same	3	SM HSE Competant Person

Procedure (in steps):	Possible Hazards	Risks	Inherant Risk Score (risk with no controls)	Control Measures	Residual Risk Score (risk after controls in place)	Resp. Person
				<ul> <li>way to ACM. (Lined bin, plastic bag 200 micron)</li> <li>All PPE to remain on till area is decontaminated.</li> <li>Scrape / clean off excess materials from boots, tools etc with damp rag, into Asbestos waste bag.</li> <li>All disposable PPE to be placed in Asbestos waste bag and not re-used.</li> </ul>		
Disposal of waste	Incorrect disposal of waste	Environmental contamination Environmental fines imposed People exposed Commercial disgrace	1	Materials to be disposed of at registered waste management facility, capable of receiving Hazardous waste. Receipts of waste disposal to be collected and recorded in Asbestos register.	3	SM
Other items as identified						

Details of Site Supervisory staff			Training Required to Complete Work
Name:	Qualification: Certificates of Competence/Safework Approvals required:		General WHS Induction Training
			Work activity training – (Asbestos awareness training)
			SWMS Training
			Manual Handling training
			Personal protective equipment
			Other: RCC Asbestos Management Plan

Plant & Equipment: (Log books to be supplied)	Codes of Practice, Legislation, etc. applicable :
	Act: Work Health & Safety Act 2011 Protection of the Environment Operations Act 1997 Regulation: Work Health & Safety Regulation 2017
	Codes of Practice: COP For the safe removal of Asbestos [NOHSC:2018 (2005)] COP- How do manage and control asbestos in the workplace-Oct 2018 COP- How to safely remove asbestos- Oct 2018
	Hygienists report, if submitted.

Company

I/We the undersigned, employees of \_\_\_\_\_\_, declare that I/we have attended "Work Activity Training" in the tasks to be performed on this project and have had an opportunity to participate in the development / review of the SWMS. We acknowledge that all work will be performed in the manner described within the Safe Work Method Statement.

Date	Employee Name (print)	Certificate/Licence No.:	Signature	SWMS Trainer Name

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# 6.5 CONSTRUCTION TRAFFIC AND PEDESTRIAN MANAGEMENT SUB-PLAN (CONDITION B16)

The Construction Traffic & Pedestrian Management Sub-Plan has been prepared by TTW.

Refer to the following page.



# **Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP)**

# **Glenwood High School**

SSD-23512960

**Prepared for Richard Crookes Constructions** 

23 June 2023

**Revision 6** 

211530

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Revision	Register
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Rev	Date	Prepared by	Reviewed by	Approved by	Remarks
0	10/05/2022	NB	PY	· _	Draft for comment
- 1	18/05/2022	NB	AL	PY	· For issue
2	27/05/2022	NB	AL	. PY	. For issue
3	31/05/2022	NB	AL	. PY	. For issue
4	21/09/2022	AL	MB	PY	Add Driver Code of Conduct Add Worker Transport Strategy
5	01/11/2022	AL	MB	PY	Update to TfNSW comments
6	23/06/2023	AL	MB	PY	IAPAR #02 Compliance

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Prepared by

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Associate (Traffic)

Authorised by

PAUL YANNOULATOS

**Technical Director** 

AmiAlihaharti

AMIR LAHOUTI Traffic Engineer

# **1.0 Preliminary Information**

Taylor Thomson Whitting (TTW) has been engaged by Richard Crookes Construction (RCC) to prepare a Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) for the proposed construction of upgrading Glenwood High School at 85 Forman Avenue, Glenwood. The site is legally described as Lot 5227 DP 868693. The document aims to assess the impacts of the construction works on the surrounding roads and develop traffic management measures during construction.

The document satisfies the duties applied by Chapter 3 of the Work Health and Safety Act 2011, regarding managing and eliminating risks to the health and safety of workers and other persons near a construction site.

Part 6.1 (Clause 291) of the Work Health and Safety Regulation 2011 defines high risk construction work as (amongst other definitions) work, which is carried out on, in or adjacent to a road, railway, shipping lane, or other traffic corridors that is in use by traffic other than pedestrians. Part 6.4 (Clause 315) of the Regulation also requires that the principal contractor for a construction project must manage risks to health and safety associated with traffic near the workplace that may be affected by construction work carried out relating to the construction project. This document satisfies this requirement.

Under the SafeWork NSW Construction work code of practice, a traffic management plan is considered an administrative control measure to minimise risk. As per the hierarchy of control measures, the preferred control is to eliminate risk (e.g., by using traffic lights instead of a traffic controller to control traffic at road works, to eliminate potential harm to the worker). This document aims to provide control measures which eliminate the risk where possible. As outlined in this code of practice, workplace specific induction should cover this document.

AS1742.3 requires a procedure to be followed whereby all essential traffic management matters are considered in an ordered way. Traffic demand, routing, control, and other road users and special vehicles are to be considered in turn and incorporated into a traffic management plan where relevant. This document satisfies this procedure and addresses the relevant matters.

Consideration has been given in the development of this document to the Roads Act 1993 (NSW) and other applicable and relevant legislation.

Richard Crookes Construction is responsible for acquiring and shall acquire the necessary certificates, licences, consents, permits, and approvals relevant to the construction on this site.

This report has been prepared by an engineer who holds the Transport for NSW Prepare a Work Zone Traffic Management Plan accreditation as below:

• Nathaniel Borja – Card No. TCT1007469

# 2.0 Introduction

#### 2.1 **Project Information**

The project is to provide upgrades to Glenwood High School. The upgrades consist of the following alterations and additions:

- Construction of a new three-storey building at the north-eastern portion of the site facing Glenwood Park Drive which will accommodate new learning spaces;
- Construction of one storey performance pavilion;
- Refurbishment of existing Building Block A (ground floor only) to provide one new support unit within the space of an existing general learning space;
- Refurbishment of Building Block D (ground floor only) to provide an additional office space and storeroom;
- Refurbishment of Building Block E to re-purpose it on the ground floor for computer learning spaces, staff and administration spaces as well as upgrades to the library on the first floor;
- Refurbishment of Building Block J to re-purpose it from visual arts and performing arts to learning spaces and workshops for food tech and woods/metal unit;
- Demolition of existing botany room and construction of a new single storey pavilion comprising interview rooms and end-of trip facilities; and
- The proposed development will also involve ancillary works at the site associated with the proposed The proposed site plan is shown in Figure 2.1, with the new buildings located to the north-east of the site.



Figure 2.1: Proposed site plan Source: PTW Architects

# 2.2 Response to State Significant Development Application Consent

We have been provided with consent conditions for the Glenwood High School Upgrade (SSD-23512960). The key issues relevant to construction traffic include those shown in Table 2.1 and have been addressed in various sections of this report as referenced.

	Key items	Comments and references
B16	The Construction Traffic and Pedestrian Management Sub-Plan (CTPMSP) must be prepared to achieve the objective of ensuring safety and efficiency of the road network and address, but not be limited to, the following:	
а	Be prepared by a suitably qualified and experienced person(s);	This CTPMSP has been prepared by Nathaniel Borja who holds Prepare Work Zone Traffic Management Plan accreditation no. TCT1007469. Relevant CVs are attached at
		Appendix D.
b	Be prepared in consultation with Council and TfNSW	Refer to Section 2.3 and Appendix E
с	Detail:	
c.(i)	Measures to ensure road safety and network efficiency during construction in consideration of potential impacts on general traffic, cyclist and pedestrians and bus services;	<i>Refer to Section 6.0</i> Project Impact
c.(ii)	Measures to ensure the safety of vehicles and pedestrians accessing adjoining properties where shared vehicle and pedestrian access occurs;	<i>Refer to Section 5.0</i> Construction Traffic Management
c.(iii)	Heavy vehicle routes, access and parking arrangements;	<i>Refer to Section 5.0</i> Construction Traffic Management
c.(iv)	The swept path of the longest construction vehicle entering and exiting the site in association with the new work, as well as manoeuvrability through the site, in accordance with the latest versions of AS2890.2; and	Refer to Appendix C
c.(v)	arrangements to ensure that construction vehicles enter and leave the site in a forward direction unless in specific exceptional circumstances under the supervision of accredited traffic controller(s)	Refer to Appendix B and C
B22	A Driver Code of Conduct must be prepared and communicated by the Applicant to heavy vehicle drivers and must address the following:	<i>Refer to Section 5.5</i> Driver Conduct and Construction Worker Transport

#### Table 2.1: Response to SSDA Consent

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	Key items	Comments and references
а	Minimise the impacts of earthworks and construction on the local and regional road network;	<i>Refer to Section 5.5</i> Driver Conduct and Construction Worker Transport
b	Minimise conflicts with other road users;	<i>Refer to Section 5.5</i> Driver Conduct and Construction Worker Transport
с	Minimise road traffic noise; and	<i>Refer to Section 5.5</i> Driver Conduct and Construction Worker Transport
d	Ensure truck drivers use specified routes.	<i>Refer to Section 5.5</i> Driver Conduct and Construction Worker Transport
	Construction Parking	
B23	Prior to the commencement of construction, the applicant must provide sufficient parking facilities on-site, including for heavy vehicles, to ensure that construction traffic associated with the development does not utilise public and residential streets or public parking facilities.	<i>Refer to Section 5.6</i> Construction Workers Parking
B24	Prior to the commencement of construction, the applicant must submit a Construction Worker Transportation Strategy to the Certifier. The Strategy must detail the provision of sufficient parking facilities and/or other travel arrangements for construction workers in order to minimise demand for parking in nearby public and residential streets or public parking facilities. A copy of the strategy must be provided to the Planning Secretary for information.	<i>Refer to Section 5.5</i> Driver Conduct and Construction Worker Transport

# 2.3 Response to Development Application Consent

We have been provided with consent conditions for the Glenwood High School bulk earthworks and associated development under DA-21-02007. The key issues relevant to construction traffic include those shown in Table 2.2 and have been addressed in this report as referenced.

Table 2.2: Response to	DA Consent
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	Key items	Comments and references
2.2.1	The recommendations in the Traffic Impact Statement 211530 TAAA dated 1 October 2021 and prepared by TTW are to be implemented.	The Traffic Impact Statement notes that a Construction Traffic Management Plan will need to be provided, to detail worker numbers, site access arrangements, and construction vehicle volumes. All elements outlined in the Traffic Impact Statement have been addressed in this CTPMSP.

# 2.4 Response to Review of Environmental Factors

We have been provided with conditions of approval for the Glenwood High School upgrades associated with the Review of Environmental Factors dated 8 October 2021. The key issues relevant to construction traffic include those shown in Table 2.3 and have been addressed in this report as referenced.

	Key items	Comments and references
11.1	A Construction Traffic and Pedestrian Management Plan is to be prepared by an appropriately qualified engineer prior to the commencement of works and implemented during the undertaking of works. The Construction Traffic and Pedestrian Management Plan is to, but not be limited to:	This CTPMSP has been prepared by Nathaniel Borja who holds Prepare Work Zone Traffic Management Plan accreditation no. TCT1007469. Relevant CVs are attached at Appendix D.
а	Determine the relevant construction traffic flows and assess the predicted road traffic noise levels in accordance with the criteria.	Refer to Section 5.0 Construction Traffic Management and Construction Noise and Vibration Management Sub Plan (Report number 220239-GHS- CNVMSP-220513-R0, 13 May 2022)
b	Consider construction traffic management measures to mitigate construction traffic impacts to surrounding local streets.	Refer to Section 5.0 Construction Traffic Management
С	Consider and outline measures to manage any cumulative traffic impacts due to other related development proposed or underway on the site, including development progressed under other assessment pathways.	Refer to Section 5.0 Construction Traffic Management

#### Table 2.3: Response to REF Consent

# 2.5 Authority Consultation

As identified in SSDA Condition B16(b), this CTPMSP is to be prepared in consultation with Council and TfNSW.

A work-in-progress copy of Revision 4 of this CTPMSP (dated 20 July 2022) was provided by email to Council (to Nadeem Shaikh, Coordinator Traffic Management and Andy Karklins, Traffic Management Officer) and TfNSW (to a centralised CTMP inbox as advised by TfNSW during the SSDA), on 20 September 2022. A follow-up email was sent to both agencies on 13 October 2022.

TfNSW provided a response by email on 20 October 2022 stating they had no objection to the CTMP and provided information on additional bus routes to be incorporated into the document. As of Revision 5 of this document, the requested changes have been incorporated.

At the time of writing, no response has yet been received from Council, but any comment would be addressed in future revisions of this CTPMSP.

A copy of relevant consultation records is attached at Appendix E.

# 3.0 Traffic Environment

#### 3.1 Site Location

Glenwood High School (GHS) is on a 6.08 Ha site, located in the suburb of Glenwood in north Western Sydney and falls within Blacktown local government area, between Bella Vista and Stanhope Gardens. The property is legally identified as Lot 5227, DP 868693. Figure 3.1 shows the site location.

GHS is surrounded by Glenwood Reserve and recreational fields to the west, Glenwood Park Drive to the east, Forman Avenue to the south and Glenwood Reserve to the north. There are also low-density residential areas on south and east side of the school.

The school operation hours start at 8:40am and finish at 2:10pm on Mondays, 3:00pm on Tuesdays, Thursdays and Fridays, and 2:50pm on Wednesdays. On the other hand, there will be Out of School Hour Care (OOSHC) activities operating out of school bell time; therefore, it has no conflict with school traffic flow circulation related to pick-up/drop-off or staff car parking entrance/exit. It needs to be noted that the maximum number of 104 students using this service, which might be active after the COVID restrictions.



Figure 3.1: Site extents Source: SIX Maps

# 3.2 Road Network

#### 3.2.1 State Roads

The state and regional roads in the vicinity of the site can be seen in Figure 3.2.

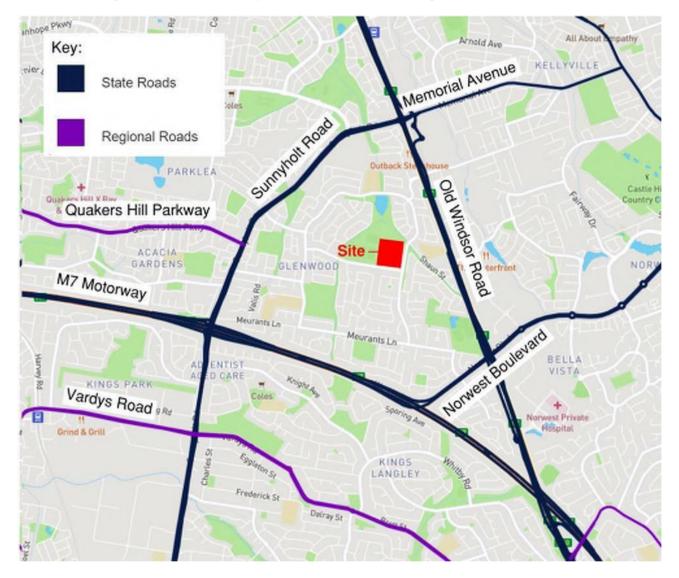


Figure 3.2: Classified Road Network

Source: NSW Road Network Classifications map, Transport for NSW 2021

**Sunnyholt Road** is a major arterial road at the north and west GHS that links the suburb of Stanhope Gardens in the north, to Blacktown Train Station. Parking is not allowed along Sunnyholt Road in both directions. There are typically two travel lanes in each direction, with a maximum speed limit of 70 km/hr with a bus lane at each direction near intersections.

**Old Windsor Road** is a north-south state road at the east GHS that connects the suburb of Mulgrave to the Westmead Hospital. The road has two lanes in each direction at GHS nearby, with an 80 km/hr general speed limit.

**M7 Motorway** is a 40-kilometre state road located at the south GHS that connects the suburb of Prestons in the south-west to the suburb of Bella Vista with a general speed limit of 100 km/hr.

**Norwest Boulevard** is located in the south GHS that links three other state roads, including M7 Motorway, Old Windsor Road and Windsor Road. Norwest Boulevard has two lanes per direction, and roundabout sat its level crossings with other roads. It is equipped with traffic signals at its intersection with Old Windsor Road and Windsor Road, and the speed limit is mostly 70 km/hr along the boulevard.

#### 3.2.2 Local Roads

The local roads surrounding the school site and the type of intersection control (if any) can be seen in Figure 3.3.



Figure 3.3: Intersection controls in the local road network Background image source: Nearmap

**Forman Avenue** is a local street running south of the school, which provides access to pedestrians, staff vehicles and service vehicles into GHS. There is a single travel lane in each direction with various parking restrictions in the westbound direction. The general speed limit along Forman Avenue is 50 km/hr; however, it is also subject to a 40 km/hr School Zone at the relevant times (8:00 - 9:30 am, 2:30 - 4:00 pm).

**Glenwood Park Drive** is also a local street located east of the campus that provides both vehicles' accessway and access for pedestrians into GHS. There is a single travel lane in each direction with some parking spaces in the kerbside lanes, a general speed limit of 50 km/hr, and the signage for 40 km/hr School Zone at the relevant times (8:00 - 9:30 am, 2:30 - 4:00 pm).

Figure 3.4 indicates the locations of the surrounding school zones. The school zones associated with Glenwood High School cover the length of the site along Forman Avenue and Glenwood Park Drive. A smaller school zone is located north of Glenwood Park Drive, adjacent to Parklea Public School.



Figure 3.4: School Zone extents Background image source: Nearmap

# 3.3 Car Parking

#### 3.3.1 Off-Street Parking

The school has two designated staff car parks, one in the south-east corner of the site and one along the western side of the site. These are both accessible via Forman Avenue, as shown in Figure 3.5. They are both controlled by a two-way gated driveway, approximately 7 metres in width, allowing vehicles to enter and exit. The existing on-site car parking capacity provides 93 parking spaces, including one accessible parking space. 30 of these spaces are available in the south-eastern car park and the remaining 63 on the western side of the site.



Figure 3.5: Off-Street Parking Provisions

Car parking associated with the Goodstart Early Learning centre is within the legal property boundary of the site.

## 3.3.2 On-Street Parking

On-street parking in the vicinity of the site is generally unrestricted. Similar to the off-street parking, on-street parking in the vicinity of the site has been reviewed to assess long-term usage trends.

The extent and description of on-street zones used for the detailed analysis are shown below in Figure 3.6. All on-street parking spaces in the vicinity are unmarked.



Figure 3.6: On-street and off-street parking areas for analysis

## 3.4 Site Access

There are six existing access gates into Glenwood High School catering for pedestrians, vehicles, and service vehicles; two gates are at Glenwood Park Dive and three gates are at Forman Avenue, as shown in Figure 3.7.



Figure 3.7: Access gateways into Glenwood High School

#### 3.4.1 Pedestrian Access

There is pedestrian access on the eastern side of the site, adjacent to the off-street bus bay on Glenwood Park Drive. The main school buildings can be accessed from this point via stairs. Figure 3.8 shows this accessway.



Figure 3.8: Glenwood Park Drive Pedestrian Access

There is a pedestrian access point at the southern side of the site on Forman Avenue, shown in Figure 3.9. This gate provides access to the main school buildings via stairs and an accessible ramp.



Figure 3.9: Forman Avenue Eastern Pedestrian Access

A smaller pedestrian gate shown in Figure 3.10 is located on Forman Avenue in the south-west corner of the site, providing access to the back of the main school buildings. Stairs are provided at this point.

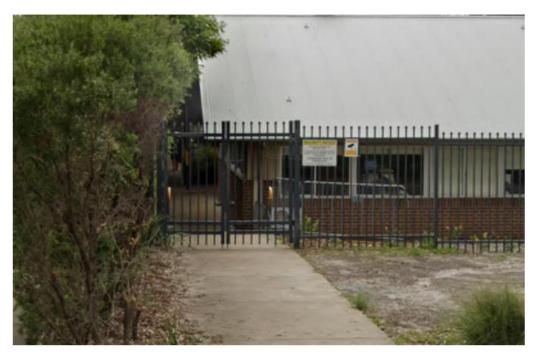


Figure 3.10: Forman Avenue Western Pedestrian Access

#### 3.4.2 Vehicle Access

There is a vehicle access gateway at the eastern side of the site on Glenwood Park Drive, labelled Gate F. This gated driveway joins an internal road leading to the main school buildings. As shown in Figure 3.11, this access point is also connected to an unpaved road, which staff drive along to park informally on the grass.



Figure 3.11: Glenwood Park Drive Vehicle Access

Figure 3.12 contains the vehicle access point on Forman Avenue at the southern side of the site, labelled Gate D. This point leads to the staff car park and access is restricted to permitted staff and service vehicles. The driveway provides a two-way entry and exit, with a width of approximately 7 metres. The gate can be closed to restrict access.

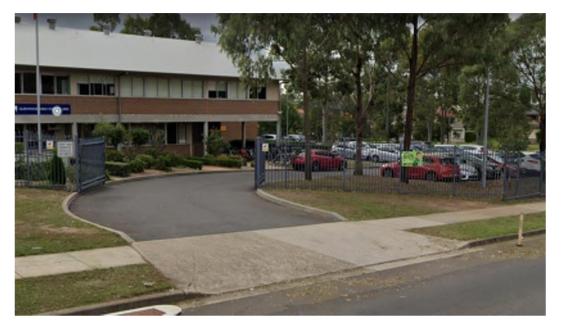


Figure 3.12: Forman Avenue Eastern Vehicle Access

There is a vehicle access driveway in the south-west corner of the campus on Forman Avenue, providing the secondary staff car parking access. This driveway is approximately 7 metres in width, providing two-way vehicle access. The driveway is shared with Goodstart Early Learning Child Care. To access the Glenwood High School staff car park, vehicles are required to enter through the gates indicated in Figure 3.13. This gate is controlled by a ticketed system only to allow staff and service vehicles to enter.



Figure 3.13: Forman Avenue Western Vehicle Access

## 3.5 Public Transport

#### 3.5.1 Public Buses

The nearest bus stops to Glenwood High School serviced by the 730 and 745 lines are located at Forman Avenue and Glenwood Park Drive. Route 735 generally travels along Sunnyholt Road but diverts past the school for one morning service.

The relevant services and destinations in the vicinity of the site are listed in Table 3.1, with all local routes shown in Figure 3.14 in the school context and the existing catchment boundary. The site is located within the

Table 3.1: Bus routes surrounding the school					
Bus Number	Bus Route	Morning Times	Afternoon Times		
730	Castle Hill to Blacktown via Norwest & Glenwood	7:39am 8:01am 8:26am	3:16pm		
730	Blacktown to Castle Hill via Norwest & Glenwood	7:52am 8:17am 8:41am	3:15pm 3:44pm		
735	Blacktown to Rouse Hill	7:28am			
745	St Marys to Norwest Hospital via Stanhope Gardens	8:15am	2:50pm 3:51pm		
745	Norwest Hospital to St Marys via Stanhope Gardens	7:53am 8:20am	3:36pm		
616X	Kellyville Ridge to City QVB	Every 1 – 5 mins from 7:14am to 8:19am 8:26am 8:29am 8:36am	Does not run		
616X	City QVB to Kellyville Ridge	Does not run	4:01pm		
663	Rouse Hill Station to Parramatta via Kellyville Ridge	7:50am 8:00am 8:10am 8:19am 8:29am	3:26pm 3:36pm 3:51pm		
663	Parramatta to Rouse Hill Station via Kellyville Ridge	7:53am 8:16am 8:36am	3:07pm 3:27pm 3:40pm 3:50pm		

The following school bus services also stop at the site:

6600, 6527, 6502, 6042, 6015, 2508, 8592, 2608, 6028, 6038, 6058, 6531, 6551, 6592, 6593, 6002, 6036, 6041, 6042, 6595, 6601, 6613



#### Figure 3.14: Local bus routes

## 3.5.2 Train and Metro

Glenwood High School is a 25-minute walk from Bella Vista metro station, which is a walking distance of 2 kilometres. The station can also be reached via bus route 663, 730 and 745, with travel times between 5 - 20 minutes. Bella Vista metro station connects into the Metro North West Line, connecting Tallawong and Chatswood, providing connections to the T9 Northern, T9 Gordon, and T1 North Shore and Western lines.

The closest train station to the school is Blacktown train station, accessible via a bus ride of upwards of 25 minutes. Blacktown train station provides access to the T5 Richmond and T1 Western lines, with these services providing connections across Sydney. These train and metro services can be seen in Figure 3.15.

Source: Greater Western Sydney Bus Network Map (Busways), effective 7 March 2022



Figure 3.15: Sydney Trains and Metro Network

## 3.6 Active Transport

#### 3.6.1 Pedestrian Facilities

Figure 3.16 shows the pedestrian facilities available within a walking distance radius of approximately 800 to 1200 metres from the school site. There are existing footpaths on both sides of Forman Avenue and Glenwood Park Drive. Both pedestrian site access points have a raised pedestrian crossing servicing each access. Other raised and non-raised pedestrian crossings and pedestrian refuges are available at intervals along Glenwood Park Drive and Forman Avenue. The majority of the minor roads within the residential areas have a footpath on at least one side of the road, but some are missing footpaths on both sides.

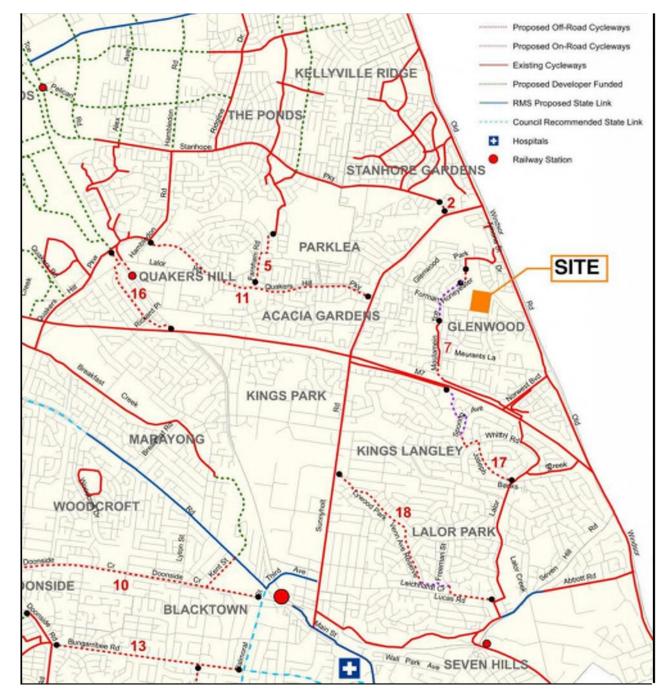


Figure 3.16: Pedestrian facilities in the local road network Background image source: Nearmap

#### 3.6.2 Cycling Facilities

There are currently no bicycle paths connecting directly to the site, as indicated in Figure 3.17. There is a nearby cycleway on Moulmein Terrace, consisting of both on-road and off-road bike paths. This route has a proposed off-road cycleway connecting into the existing cycleway adjacent to the M7 motorway. Another cycleway close to the school site exists along Teawa Crescent, connecting into Glenwood Park Drive and leading to Windsor Road. There is a proposed on-road cycleway connecting these two existing cycleways together via Honnyeater Terrace.

Additionally, there are existing cycleways along the major roads in this area, including the M7 motorway, Sunnyholt Road and Windsor Road. Considering the existing and proposed cycleways within the larger



network, routes to Blacktown train station, Seven Hills train station and Quakers Hill train station will eventually be available.

Figure 3.17: Existing and Future proposed cycling network Source: Blacktown City Council, 2016 Bike Plan

The school site currently contains 56 bicycle parking spaces, located near the south-east car park.

The existing staff facilities have limited provision of end-of-trip facilities. 1 shower is available, and some unassigned lockers are located in the staffroom.

# 3.7 Drop-off and Pick-up (Kiss & Ride)

The school currently operates with one indented kiss & ride zone along Forman Avenue, allowing parents to pick up and drop off their children in front of the school. The overall length of this zone is around 60 metres. This kiss & ride zone on Forman Avenue is shown in Figure 3.18. This zone is signposted 'No Parking' zone between 8:00-9:30 am and 2:30-4:00 pm.



Figure 3.18: Forman Avenue kiss & ride bay

Additionally, there are further on-street kiss & ride (No Parking) zones along Forman Avenue, both east and west of the indented bay, shown in Figure 3.19.



Figure 3.19: Forman Avenue kiss & ride zones

# 4.0 Overview of Construction Activities

#### 4.1 Scope of Works

The Glenwood High School scope of works has 2 stages that includes, but is not limited to, the following:

Early Works: REF - Phase B

- Install temporary site fencing, access arrangements and site establishment.
- Establishment of new sewer trench as per the drawings
- Install new sewer connections
- Transition sewer flows to new infrastructure
- Removal of old sewer infrastructure and make good of the area in question

Main Works: Stage 1 and 2 (DA & SSDA)

- The Project consists of the design and construction of:
- New 3 storey building
- New single storey
- Alterations to existing buildings
- Public domain works and landscaping.

The purpose of the Works is to provide new teaching and ancillary facilities for the education of public school students, with minimal disturbance to ongoing School operations. The Works includes decanting between existing buildings on site and into the new buildings.

#### 4.2 Site Layout and Access

The construction vehicles would access the site via Glenwood Park Drive and Forman Avenue. RCC has proposed to provide a circulation area for construction trucks, within the site zone located to the north and west of the site. Figure 4.1 shows an overview of the proposed site layout plan. Based on the site layout shown below, the construction vehicles will enter and exit the site from/to east access at Glenwood Park Drive during Stage 1 and at south access at Forman Avenue. A detailed site layout plan is available in Appendix A of this report.



Figure 4.1: Site layout - Stage 1

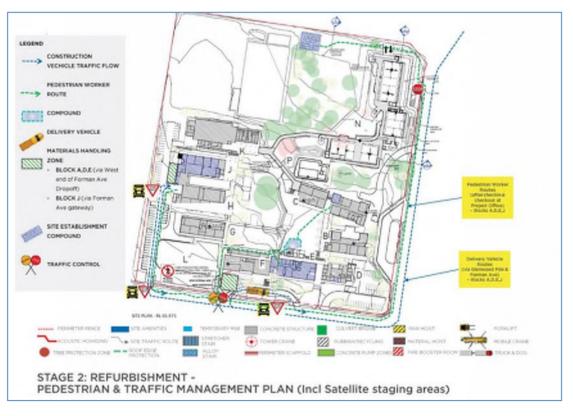


Figure 4.2: Site layout - Stage 2

Swept path analysis for movements to the site are provided at Appendix C.

# 4.3 Construction Stages

The proposed construction works would be completed in approximately 18 months' time, with an anticipated start in May 2022 and completion by August 2023. It is anticipated that the project will be divided into stages, the anticipated duration of each stage is provided in Table 4.1. The below outlined construction stages may overlap each other during construction.

Work Stages	Description of Works	Duration (no. of days)	Start	Finish
Early Works		48	03/05/2022	07/07/2022
Main Works				
1	Stage 1			
	Performing Arts	105	06/07/2022	29/11/2022
	New Building	204	30/06/2022	02/05/2023
2	Stage 2			
	Building J	53	02/05/23	17/07/2023
	Building A	17	10/05/2023	02/06/2023
	Building D	26	10/05/2023	16/06/2023
	Building E	60	10/05/2023	02/08/2023

#### Table 4.1: Construction staging

Work Stages	Description of Works	Start	Finish		
Ealy Works	Ealy Works				
1	Site Establishment	23/05/2022	02/06/2022		
2	In-ground Services	07/06/2022	12/07/2022		
Main Works	Main Works				
Stage 1 (New Buildi	ng & Performing Arts)				
1	Bulk Earthworks & Piling	04/07/2022	01/08/2022		
2	Sub-structure	30/07/2022	30/09/2022		
3	Structure	23/09/2022	10/12/2022		
4	Envelope	25/10/2022	11/02/2022		
5	Internal Finishes & Services	01/11/2022	02/05/2023		
6	External Works /Landscape	13/02/2023	30/03/2023		

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Stage 2 (Buildings J, A, D & E)			
1	Site Establishment	11/05/2022	31/05/2020
2	Fitout Works	19/5/2022	09/08/2022
3	Services	19/05/2022	28/07/2022
4	Structure	26/05/2022	14/06/2022
5	Envelope	15/06/2022	.05/07/2022

## 4.4 Hours of Operation

Construction activities are only to be carried out during the following approved hours of work:

- Monday to Friday
   07:00 AM to 06:00 PM
- Saturday 08:00 AM to 01:00 PM
- Sundays and Public Holidays No work permitted

RCC will be responsible for instructing and controlling all sub-contractors regarding the hours of work. Any works outside the proposed construction hours will be subject to specific prior approval from the appropriate authorities. Such work may include delivery of cranes, oversized equipment required to the site.

#### 4.5 Construction Workforce

The construction workforce would vary based on work schedule requirements. The anticipated workforce would range between 80 to 120 workers, with the peak anticipated workforce during Main Works DA & SSDA.

# 5.0 Construction Traffic Management

#### 5.1 **Construction Traffic Volumes**

Construction traffic will primarily include trucks up to 20 metres long semi-trailer trucks for excavation, for the delivery of large size construction material and civil works, with occasional use of 50T mobile crane up to 12.5m for lifting works. Based on the extent of the project and proposed construction stages, Table 5.1 outlines the anticipated number of constructions trucks for each stage of the project.

Work Stages	Description of Works	Average Movements (one-way) Per Day	Vehicles per hour <sup>1</sup> (maximum)
Ealy Works			
1	Site Establishment	2	1
2	In-ground Services	2	1
Main Works			
Stage 1 (New Buildi	ng & Performing Arts)		
1	Bulk Earthworks & Piling	6	1
2	Sub-structure	40	5
3	Structure	40	5
4	Envelope	6	1
5	Internal Finishes & Services	6	1
6	External Works /Landscape	6	· 1
Stage 2 (Buildings .	J, A, D & E)		
1	Site Establishment	6	· 1
2	Fitout Works	6	. 1
3	Services	6	. 1
4	Structure	40	5
5	Envelope	6	1

#### Table 5.1: Construction traffic volumes

Vehicle volumes for a development of this scale are likely to be on the order of no more than 6 vehicles per day (equivalent to 1-2 vehicles per hour) excluding during concrete pouring works. At these volumes, the local road network could easily accommodate the proposed standard construction vehicle movements subject to appropriate management.

<sup>&</sup>lt;sup>1</sup> Assuming trucks will arrive and depart between eight hours of total daily operation.

Construction vehicle management will be subject to local traffic control by qualified traffic controllers

All the concrete pours and deliveries will occur outside of the road network and during school peak periods to minimise traffic impact and associated road network.

Any oversize vehicle needs to approach the site via surrounding roads, which would require Council's approval. RCC would be responsible for submitting an application for an Over Size Vehicle Access Permit and obtaining approval prior to such traffic movement.

The assessment of predicted road traffic noise levels are detailed in Construction Noise and Vibration Management Sub Plan (Report number 220239-GHS-CNVMSP-220513-R0, 13 May 2022).

#### 5.2 **Construction Vehicle Routes**

Generally, construction vehicles will approach the site from a wide range of locations throughout the greater Sydney area. However, all construction vehicles will use the State, and Regional road network, as well as the TfNSW approved heavy vehicle route network where practicable. The recommended construction vehicle routes are detailed below and shown in Figure 5.1.

Truck drivers will be advised of the designated truck routes to and from the site, as shown in Figure 5.1. No queuing of construction vehicles will be permitted on the surrounding road network, with call-up procedures to be put in place to manage arrivals.

The main construction access point is anticipated to be located at the northern end on Glenwood Park Drive of the site during Stage 1 and at the west mid of the site from Forman Avenue during Stage 2. Figure 5.1 outlines the recommended haulage routes for this potential construction access point. The recommended routes involve both left and right in and out movements at the construction access point.

Figure 5.1 shows the recommended haulage routes for arrival from north and departure to south of the site. Construction vehicles are expected to utilise Old Windsor Road for haulage in the north and south directions. Inbound and outbound vehicles from the east can travel via the M2 Motorway, which has connections to NorthConnex. Similarly, vehicles arriving and departing from the west can use the M7 Motorway, which connects to further regions via the M4 and M5 Motorways.

During Main Works Stage 1, construction vehicles arriving from and leaving toward the north are likely to access the site via the following route:

Old Windsor Road > Miami Street > Tarwin Avenue > Glenwood Park Drive > Tarwin Avenue > Miami Street > Old Windsor Road

For Main Works Stage 2, construction vehicles from north and leaving toward the south are likely to access the site via the following route:

Old Windsor Road > Miami Street > Tarwin Avenue > Glenwood Park Drive > Forman Street >

Glenwood Park Drive > Norwest Boulevard > Greenhill Drive > Meurants Lane > Glenwood Park Drive

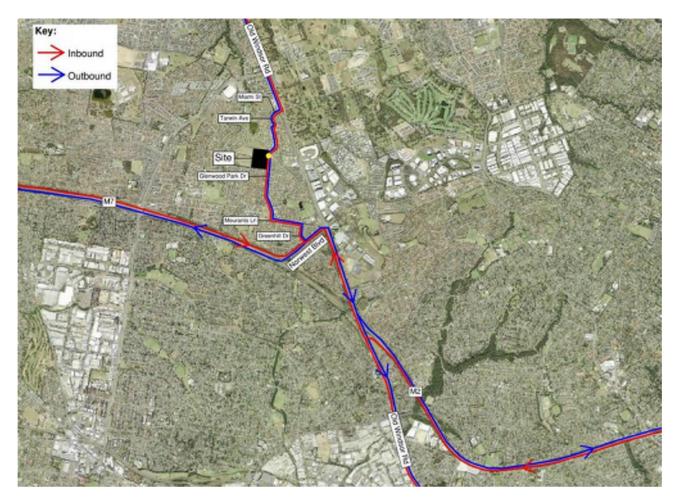


Figure 5.1: Truck Haulage Routes

It is noted that some local roads will be included in the construction haulage routes. The local road network includes several roundabouts, some with narrow pedestrian medians. If required, there is an opportunity for heavy vehicles to mount most of these roundabouts. It is not recommended for construction vehicles to use these roundabouts to make U-turns, particularly large rigid vehicles or semi-trailers.

This CTPMP has undertaken swept path analysis of the construction vehicle haulage routes, including swept path analysis of tight turning movements. Detailed measures would be refined in consultation with Council prior to any implementation. Swept path analysis for movements to the site are provided in Appendix C.

## 5.3 Construction Traffic Management

Truck loading and unloading will occur wholly within the site compound.

Traffic controllers will be implemented at the site entries as required to ensure safe and efficient movement of vehicles, pedestrians and the safety of workers within site.

All deliveries are to be made within the approved work hours. Truck movements to and from the site will be scheduled outside of network peak hours to reduce impacts to the local road network, which includes busy town-centre areas and high pedestrian volumes.

All construction vehicles enter and leave the site in a forward direction unless in specific exceptional circumstances under the supervision of accredited traffic controller/s.

During days of high estimated vehicle movements, communication between the site, vehicles will be maintained to stagger the arrival of vehicles, for them to be accommodated within the worksite and to minimise traffic disruptions. This will not impact the surrounding roads as activities will be managed within the site boundary with trucks entering and exiting in forward direction.

Heavy vehicle parking is not required for the project. All heavy vehicles associated with the works will be utilised in a "just in time" construction approach, meaning there will be no utilisation of public infrastructure for parking, or otherwise, of heavy vehicles.

During school peak hours, significant pedestrian activity is expected as students and staff arrive and depart from the site. There are several management measures that may be implemented to ensure the safety of these active transport users including:

- Scheduling construction vehicle movements outside of school peak hours where possible to ensure pedestrian and cyclist safety.
- Prohibit pedestrians from entering or passing through specific areas of the site during construction, enforced by fencing around the perimeter.
- Signage should be fitted to communicate to students and staff any detours or prohibited areas within the site. Any changes to external pedestrian or cyclist routes should also be communicated with signage and have detours clearly marked.

It is recommended that construction vehicle access points to the site are secured by manned traffic control to ensure no unauthorised or unsafe access is permitted for vehicles or pedestrians. Traffic control will also enable safe pedestrian movements across the construction access driveway, particularly students walking to and from school.

A Traffic Control Plan showing appropriate warning signage addressing all the construction stages are provided in **Appendix B**.

#### 5.4 Work Zones

As discussed above, all the loading/unloading activities will occur within the site. Therefore, the proposed construction works do not require an on-street works zone for such activities.

#### 5.5 Driver Conduct and Construction Worker Transport

The following Driver Code of Conduct and Construction Worker Transportation Strategy have been prepared to address SSDA Conditions B22 and B24 respectively. These shall be distributed to site workers and drivers as required.

The objectives of the Driver Code of Conduct are to minimise the impacts on the road network, to minimise conflicts with other road users, to minimise road traffic noise; and ensure drivers use the specified routes for approaching and exiting the site.

The objective of the Construction Worker Transport Strategy is to minimise demand for parking in nearby public and residential streets or public parking facilities. Temporary on-site parking may be available within the construction site, however this will be subject to construction phasing and site compound arrangements, and workers are therefore advised to find alternative means of transport.

It is recommended to develop a program or a checklist to ensure truck drivers are adhering with driver code of conduct.

# **Driver Code of Conduct**

#### Minimise Impacts to Road Network

To minimise the impacts of earthworks and construction on the local and regional road network:

- Always obey all applicable road rules and laws
- Drivers to obey road speed limit and reduce the speed while approaching nearby intersections. Heavy braking can damage the roads.
- Drivers should avoid local, narrow roadways where possible
- Drivers should follow specified truck routes (see Figure 5.1 and enquire if unsure)

#### Minimise Conflicts with other Road Users

To minimise conflicts with other road users including pedestrians, cyclists or private vehicle drivers:

- Drivers should be mindful of pedestrians and cyclists along all haulage routes
- Drivers should not obstruct access to any public roads, residential driveways, or pedestrian footpaths
- All loading and unloading will occur wholly within the site
- Drivers should exit the site in a forward motion and check their left and right twice while exiting to ensure the safety of pedestrians, cyclists and other vehicles is maintained
- Upon exiting, drivers must wait for a suitable gap in traffic. The Roads Act does not give any special treatment to trucks exiting a construction site, but the vehicles on the road have the right-of-way
- Drivers should obey the traffic controllers while entering and exiting the site
- Drivers should be aware of site's surrounding conditions including speed limits, other traffic controls and pedestrian routes. This information can be presented to drivers during site inductions
- Drivers should be aware that construction vehicle movements are to be scheduled outside of peak traffic periods where possible.

#### Minimise Road Traffic Noise

To minimise the noise impacts on the community resulting from driving heavy vehicles:

- Drivers should reduce speed to reduce instances and severity of compression braking, including when approaching speed humps or raised zebra crossings
- Limit any excessive or unnecessary use of horns, in particular outside of working hours

#### Environmental Control

For safe environmental management:

- Construction vehicle wheels shall be cleaned prior to leaving the site to prevent transport of dust, dirt, or gravel from the worksite onto the road network or pedestrian footpaths.
- All loads are to be sealed or covered when entering or leaving the site. Loading of disposable material into vehicles leaving the site is to occur only within site.

# **Construction Worker Transportation Strategy**

#### Preferred Travel Modes

All workers should be aware that car parking may not be available on the construction site and should consider alternative means of transport to/from the site. Where possible based on your personal situation, the following travel modes are recommended in order of priority:

- Walking
- Cycling
- Public transport
- Carpooling (including rideshare)
- Driving

#### Bus Options

Glenwood High School is 2 kilometres away (25 minute-walking) from Bella Vista Metro Station. If you can make your way to Bella Vista metro stations, bus routes 730 and 745 will connect you to the site in just 15 minutes approximately.

The closest train station to the site is Blacktown Station which is accessed via the 730 bus route with an upward of 15 minutes bus ride. Blacktown train station provides access to the T5 Richmond and T1 Western lines which these services provide connections across Sydney.

The following is a brief summary of some departure and arrival times for current bus services, and you can find more at <u>https://transportnsw.info/</u>. Please note that all bus times listed below may be subject to change, and you should check the latest data.

Bus Number	Bus Route	Morning Departure Times	Morning Arrival Time
730	Blacktown Station to Glenwood High School	5:25am-5:55am-6:10am-6:30am- 6:50am-7:00am-7:10am-7:16am- 7:35am-7:39am-8:00am Afternoon Departure Times	5:41am-6:11am-6:26am-6:46am- 7:06am-7:18am-7:30am-7:36am- 7:55am-7:59am-8:20am Afternoon Arrival Time
	Ū	4:05pm-4:25pm-4:45pm-5:05pm-	4:24pm-4:45pm-5:05pm-5:25pm-
		5:25pm-5:45pm-6:05pm	5:45pm-6:05pm-6:23pm

#### On-Street Car Parking

If you do choose to drive to site, please be aware of the following:

- Remember to investigate carpooling options that may be available with other workers
- Where possible, try to park in locations that are not along residential frontages, such as outside <u>Glenwood Reserve</u> to the west of the site or <u>Kidman Street</u> to the east of the site.
- Please do not park within 100 metres of the school boundary, to ensure parking availability and reduce traffic congestion during drop-off and pick-up periods.
- Remember that street parking locations around the site may be time-limited, and you may not be able to park all day in vacant zones.
- You are responsible for following all regulatory signage and parking restrictions around the site.

# 5.6 Construction Workers Parking

The proposed site layout has no off-street parking area for the construction workers. There is prevalent unrestricted parking along Glenwood Park Drive, Forman Avenue and Shaun Street, with vacant spaces readily available.

The builder will encourage all the workers to use public transport and carpool.

Due to the spatial constraints within the site, it is expected that some on-site parking may be available for construction workers however this may not accommodate individual spaces for all workers. The following mitigation measures are recommended to ensure impacts to local residential streets are limited:

- Workers to be provided with information on available public transport options and transport planning
- Workers recommended and reminded to carpool where possible
- No workers to park within 100 metres of the School boundary (to ensure parking availability and to reduce impact on drop-off and pick-up periods)
- Advice on workers about preferred on-street parking locations which would not occupy residential frontages (such as the southbound side of Glenwood Park Drive and the north-westbound side of Shaun Street). This is to reduce the impacts on residents for those workers who do choose to drive
- Workers recommended to park away from the Forman Avenue kiss & ride area, to avoid additional congestion

Workers must follow all on-street regulatory signage including drop-off and pick-up zones around the schools.

# 6.0 Project Impact

#### 6.1 Local Traffic

Local traffic patterns during construction are expected to remain consistent with the existing conditions. All public roads will remain in operation at full capacity. Traffic impacts from the construction works are expected to be limited to the volume of construction vehicles only, with minimal contractor traffic during peak hours only.

The number of daily vehicles is expected to be minimal in comparison to the total volumes of traffic on local roads. Truck movements to and from the site will be scheduled outside the network peak hours where possible to reduce impacts to the area.

All deliveries and construction works are to take place within site with no impacts to passing traffic. Existing travel lanes along all local roads will remain in operation at full capacity.

Merging of construction trucks at Glenwood Park Drive and Forman Avenue are to be managed carefully by onsite traffic controllers, such that traffic flow is maintained. For small deliveries, traffic is not to be held up in advance to allow vehicles to exit the site, and vehicles are to use suitable gaps in traffic (as per the normal rightof-way scenario).

If the relevant loading area is found to be full at the time of vehicle arrival, vehicles are not to queue on the roadway. In this instance, vehicles shall store appropriately within other areas of the site (and shall not reverse out of the site) or be turned away and rescheduled if necessary. If recirculating to the site, vehicles shall only park legally in designated parking zones and in accordance with any relevant road rules, and only for as long as necessary.

#### 6.2 Parking

As discussed in Section 5.5, the builder will encourage all the workers to use public transport and carpool. The on-street parking adjacent to the site can facilitate the additional parking requirements. Construction workers would park at available unrestricted on-street parking in the vicinity of the site. Construction workers would be encouraged to use public transport or shuttle service provided by the builder.

Based on the above, the proposed works would not generate any significant impact on the surrounding streets.

#### 6.3 Public Transport

There are no planned changes or impacts to current public bus routes or public transport facilities in the area (including the bus zone on Glenwood Park Drive). Construction vehicle access to the site shall be predominantly via the Glenwood Park Drive entrance (Gate 01) that provides access to the Glenwood High School site, with construction activities contained within the site.

Glenwood Park Drive will generally be accessible during construction hours, with no interference to existing bus routes in any way.

#### 6.4 **Pedestrians**

The footpath to the site remains operational and construction traffic movements are unlikely to interrupt any pedestrian facility in the vicinity of the site. Pedestrian access along the existing trail along the eastern boundary of the site would be maintained throughout all phases of the project. Therefore, the proposed construction works would not impact any pedestrian activity in the surrounding.

The safe movement of pedestrians around the site, particularly during drop-off and pick-up periods, would be accommodated by the proposed construction methodology.

#### 6.5 Cyclists

There are no changes to dedicated cycleways in the area. Cyclists on public roads will be required to follow direction from traffic controllers as per standard vehicles. The cycle access along the existing trail along the eastern boundary of the site would be maintained throughout all phases of the project.

#### 6.6 Communication of Works

Prior to any site works taking place, notification of commencement of the works shall be distributed to the neighbourhood. Notification is to include information or comment. Community notifications will be undertaken as per the Construction Management Plan prepared by the Contractor.

#### 6.7 Public Infrastructure

On infrequent occasions when particularly large vehicles are required to access the site, some mounting or crossing of public kerbs and medians may be necessary. The builder shall repair any damage to this infrastructure if large vehicles are required to mount the devices. Any other road markings damaged as a result of vehicles associated with the construction shall be repaired as a responsibility of the builder.

#### 6.8 Emergency Services

The contractor will assure that access to all emergency services should be maintained to and site surrounds.

#### 6.9 Site Safety

All construction work and operations are to be contained within site. Hoarding Class A is to be implemented on site, this will ensure that existing footpath will be separated from the site. Safety for passing traffic including pedestrians shall be maintained at all times.

#### 6.10 Neighbouring Properties

Construction truck access to the site shall be predominantly via the Glenwood Park Drive and Forman Avenue that provides access to the Glenwood High School site, with construction activities contained within the site. Glenwood Park Drive and Forman Avenue will generally be accessible at all times during construction. Properties adjacent to the construction zone perimeter will not be impacted by the works.

Minimal construction traffic access will be imposed through the Glenwood Park Drive and Forman Avenue where users will be made aware of construction traffic movement via warning signages as outlined in the relevant TCP.

Based on the above, all the surrounding properties will remain accessible throughout the construction period as per existing conditions.

### 7.0 Further Information

#### 7.1 Certificate and Approvals

Approval may need to be obtained from Transport for NSW, Blacktown City Council and other relevant authorities. Approval may be required for items including but not limited to:

- Road occupancy approvals
- Hoarding/fencing approvals
- Oversize vehicle usage on local roads.

Responsibility for acquiring the necessary certificates, permits, and/or approvals rests with the builder (through managed subcontractors where relevant), and must be completed prior to commencement of the associated works.

Only certified personnel will be used on site to implement, monitor, and carry out the Traffic Control Plans.

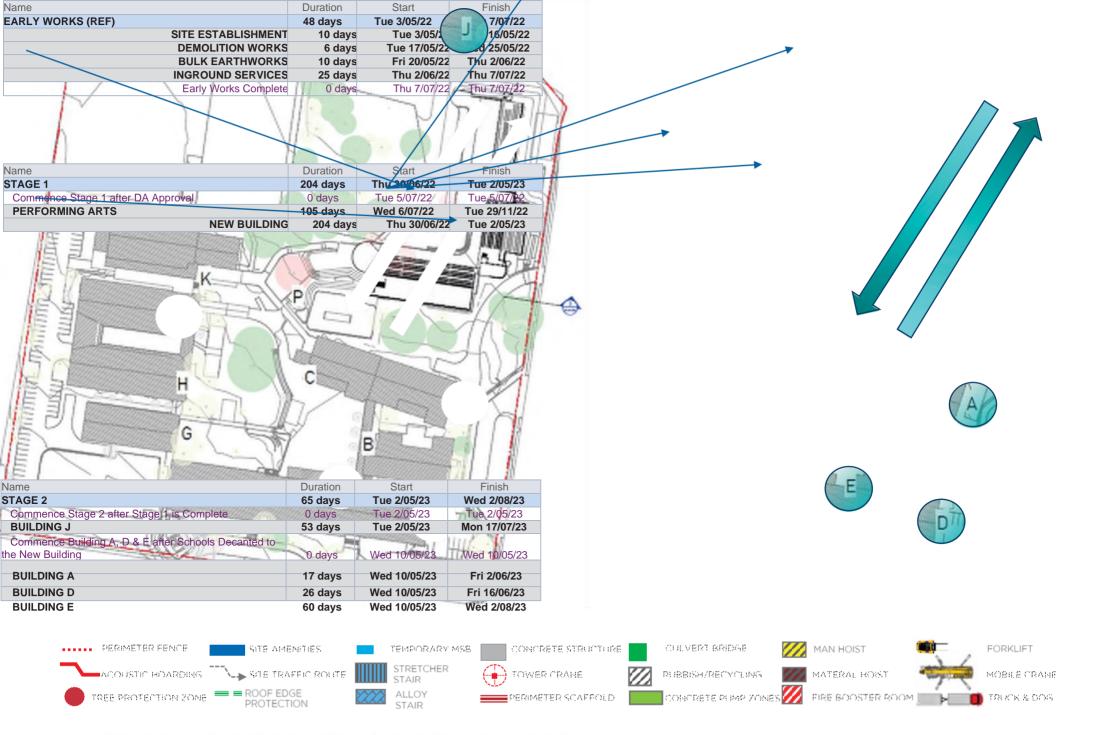
#### 7.2 Other Responsibilities

Richard Crookes Construction personnel are responsible for, but not limited to:

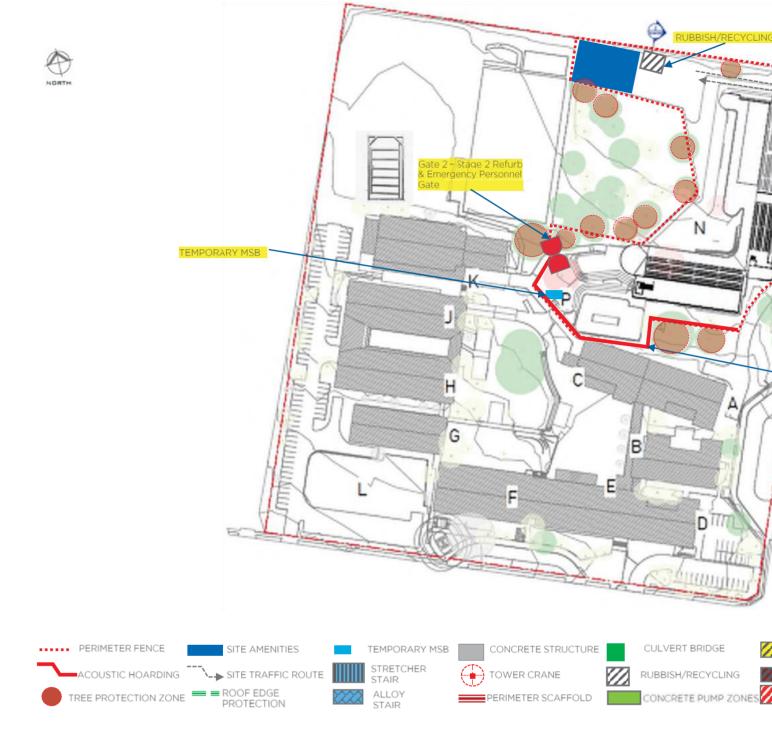
- Implementing the Construction Traffic Management Plan and associated TCP
- Informing sub-contractors of the requirements of the Construction Traffic Management Plan
- Undertaking site inspections to ensure all signage is clearly visible and not damaged
- Monitoring the implementation of the Construction Traffic Management Plan
- Reporting on incidents
- Obtaining permits.

As part of the site induction procedures, all site workers and sub-contractors will be made aware of this Construction Traffic Management Plan, the relevant Traffic Control Plan, and their responsibility to adhere to these plans.

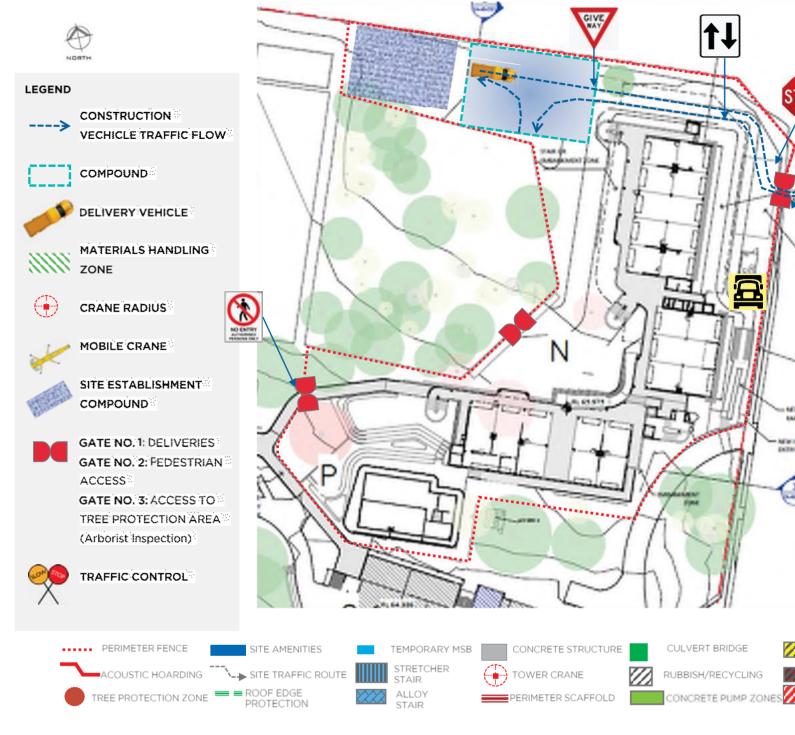
### Appendix A – Site Establishment Plans



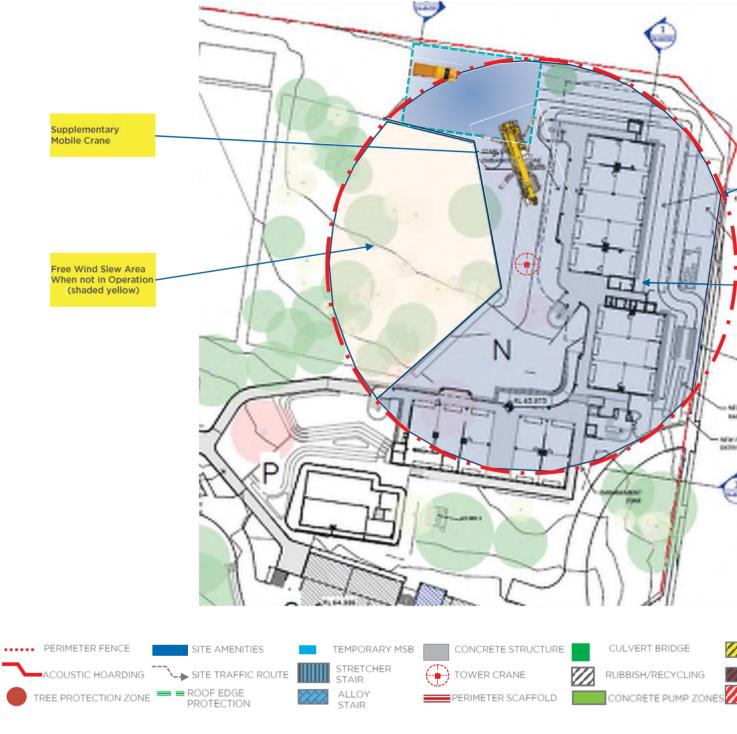
## STAGE 1 & 2: GENERAL STAGING & WORKFLOW



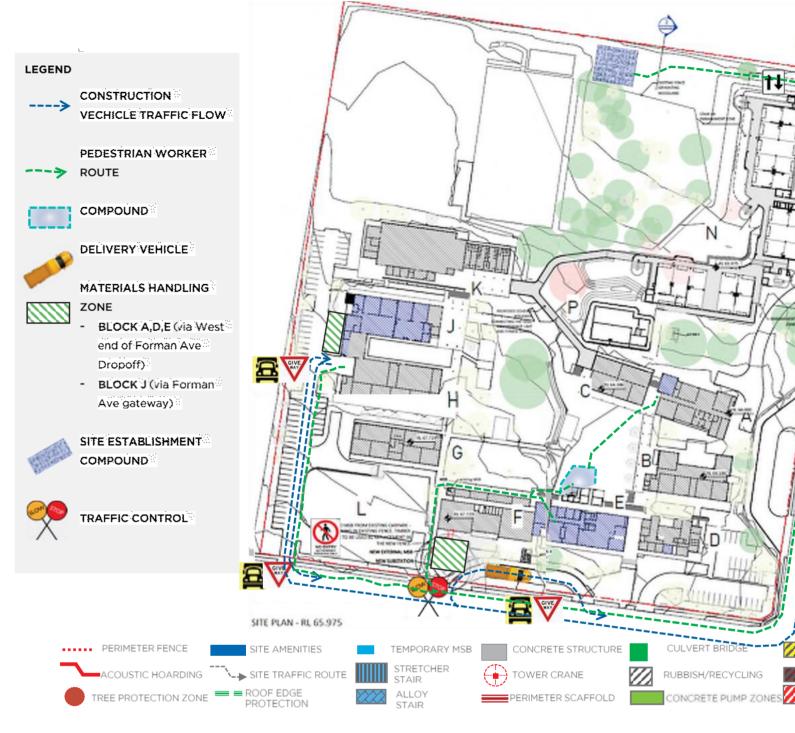
# STAGE 1 - EARLY WORKS: SITE ESTABLISHMENT PLAN



## **STAGE 1: PEDESTRIAN & TRAFFIC MANAGEMENT PLAN**

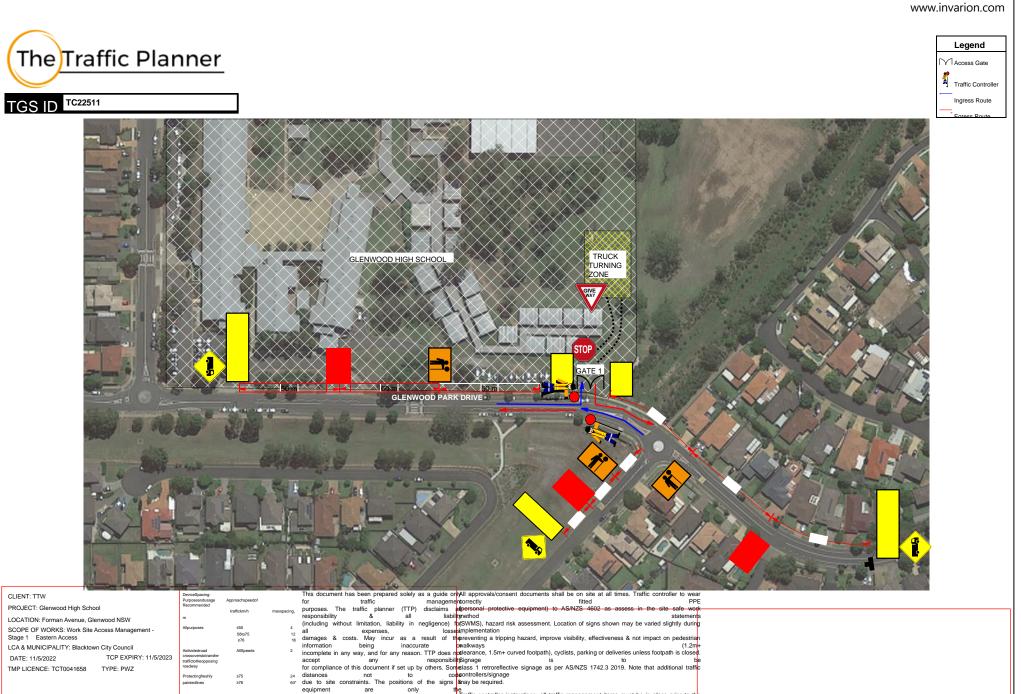


# STAGE 1: CRANEAGE, MATERIALS HANDLING (PLAN)



## STAGE 2: REFURBISHMENT -PEDESTRIAN & TRAFFIC MANAGEMENT PLAN (Incl Satellite stagi

### Appendix B – Traffic Control Plans



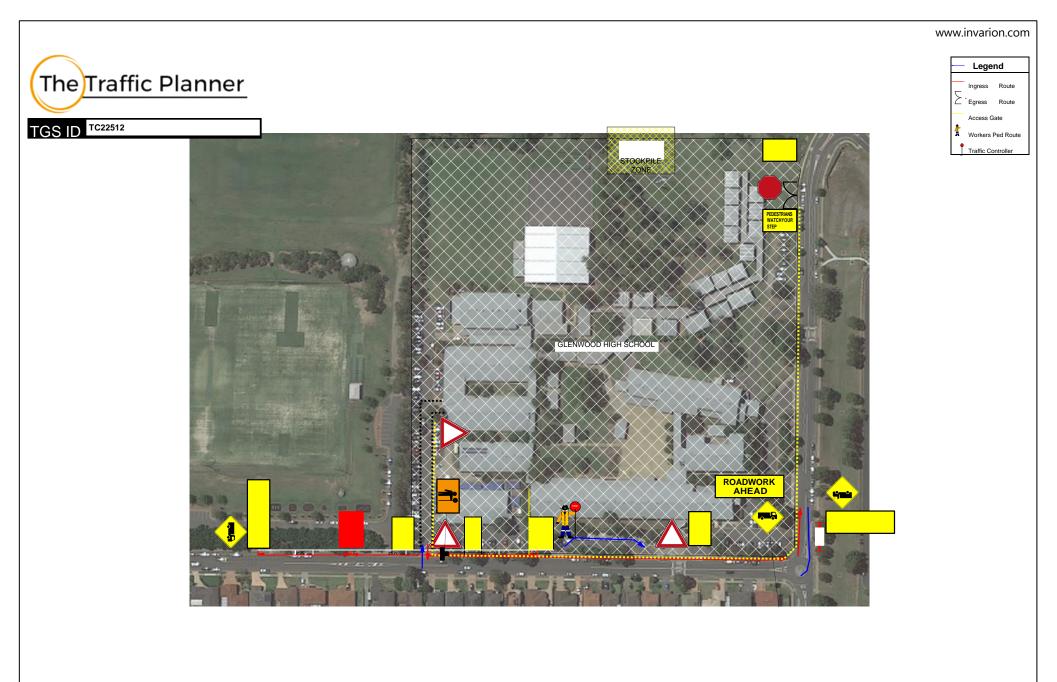
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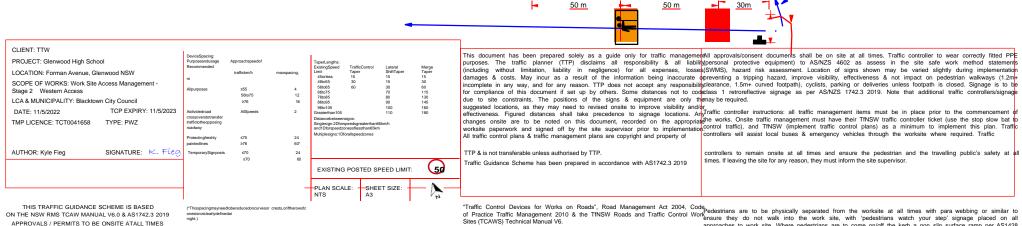
copyright and property of

controllers to remain onsite at all times and ensuratimes. the pedestrian and the traveiling public's safety at aleaving the THIS TRAFFIC GUIDANCE SCHEME IS BASED ON THE NSW RMS TCAW MANUAL V6.0 & AS1742.3 2019 APPROVALS / PERMITS TO BE ONSITE ATALL TIMES	Iffor any reason, they must inform the site sitesupervisor. (Thispacingmyneedcbereducedorcurvesor cress.offherowolc onesionaliceshydefinedat might) BasedonAS1742.3 2009	TaperLengths: ExistingSpeed Limit 460055 660055 660075 760085 860095 960105 Greaterthan105 Distancebetween Singlesign:2D/0ra Distancebetween Singlesign:2D/0ra Multiplesign:1D/n	speedsgreaterthan@ onesoflessthan65kr		Merge Taper 15 30 60 115 130 145 160 180	"Traffic Control Devices for Works on F of Practice Traffic Management 2010 & Sites (TCAWS) Technical Manual V6.
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EXISTING POSTED SPEED LIMIT: 50 PLAN SCALE: SHEET SIZE: NTS A3

"Traffic Control Devices for Works on Roads", Road Management Act 2004, Code of Practice Traffic Management 2010 & the TINSW Roads and Traffic Control Wonensure they do not walk into the work site, with 'pedestrians watch your step' signage placed on all approaches to work site. Where pedestrians are to come on/off the kerb a non slip surface ramp per AS1428 be provided by the client. Minimum mounting height for all short term signage should be 200mm.





APPROVALS / PERMITS TO BE ONSITE ATALL TIMES

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