

Project:	Memorial Gardens Amenities	Project No:	TBA
Purpose:	The Project Risk Assessment (PRR) is intended to outline the risks to be considered for the project.		
Responsibilities:	It is the primary responsibility of each organisation identified to address the potential hazards/risks, suggested controls, relevant legislative and reference guidelines when preparing site specific control measures and/or the Safe Work Method Statements (SWMS) for this project.		
	This PRR is completed prior to commencing work on the project by the Estimating Team with assistance from the WHS Manager and will be reviewed by the Project Manager and Site Supervisor each month for the duration of the project to ensure that the hazards, risks and control measures are applicable for the current stage of construction.		
	This PRR also identifies the High-Risk Construction Work (HRCW) associated with the project.		
PRR Completed by:	Adam Henricks	Version:	Version 2.0
Signed:			
Disclaimer:	<i>This risk assessment is in no way intended to be the full and final means of risk control when generating specific controls for work activities on this project. Each trade group/subcontractor must consider their operation methods, equipment and materials used, worker competency and the personal experience of the contracted trade. It is also expected that ongoing review of SWMS's, is conducted by the supervisor for the High Risk Construction Work to ensure that the current site based risks are managed for the life of the SWMS.</i>		

Revision History:

Revision Date	Revision Description	Reason for Change	Author(s) of Revision
12/12/2024	Additional controls added	Code of Practice Updates	Adam Henricks

Project Managers Monthly reviews:

Assessing the Risk

The Risk Assessment matrix shows the relationship between the likelihood (frequency) of an event occurring and the corresponding result (severity) if it did occur and will be used to determine the requirement for management of the risks identified.

LIKELIHOOD	CONSEQUENCE/SEVERITY				
	Insignificant A	Minor B	Moderate C	Major D	Significant E
1 Very Likely <i>Could happen anytime</i>	Medium A1	Medium B1	High C1	High D1	High E1
2 Likely <i>Could happen sometimes</i>	Medium A2	Medium B2	Medium C2	High D2	High E2
3 Moderate/ Possible <i>Could happen</i>	Low A3	Medium B3	Medium C3	High D3	High E3
4 Unlikely <i>Could happen, but only rarely</i>	Low A4	Low B4	Medium C4	Medium D4	High E4
5 Very Unlikely <i>Could happen, but probably never will</i>	Low A5	Low B5	Low C5	Medium D5	Medium E5

Risk Assessment Matrix legend: Likelihood

Descriptor	Description
Very Likely Could happen anytime	The event is highly likely to occur, at anytime
Likely Could happen sometimes	The event could happen some of the time, ie. it is expected to occur less than daily but at least weekly
Moderate/Possible Could happen	The event could happen, neither likely nor rare.
Unlikely Could happen, but only rarely	The event could happen, but rarely
Very Unlikely Could happen, but probably never will	The event could happen, but probably never will; is Practically impossible

Risk Assessment Matrix legend: Consequence/Severity

Descriptor	Work Health and Safety (WHS) Description	Environment Description
Insignificant	First aid treatment only. No lost time.	No impact on the environment. No disruption to the client or public.
Minor	Medical treatment required. No lost time.	Minor impact on the environment. Minor disruption to the client or the public.
Moderate	Medical treatment required. Lost time.	Major harm to the environment. Major disruption to the client or the public.
Major	Serious injury or disease. Extended medical treatment required.	Major harm to the environment. Serious disruption to the client or the public.
Significant	Loss of life.	Irreversible harm to the environment. Serious disruption to the client or the public.

Risk Assessment, Controls and Measures

No.	Activity or Stage	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequence	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequence	Likelihood	Residual Risk Rating (H,M,L)	Responsible for control measures?
1	Project Establishment	N	<ul style="list-style-type: none"> ▪ Non-Compliance to State, Government Legislation, COP's, Industry Standards, Guidelines, Client Specs and Safety in Design Risk Assessments. ▪ Sub-Contractor selection 	A4	4	L	<ul style="list-style-type: none"> ▪ Do not construct until legislative requirements have been met e.g. Council, State Government, EPA licences and approvals. ▪ Approved Drawings, approved D.A to be sought ▪ Risk Assessments to be completed e.g. SWMS, procedures reference applicable legislation, industry standards, COP's and guidelines. ▪ Use of Prequalified Sub-Contractors and Suppliers. 	A4	5	L	Tallan Group and Assigned Subcontractors
2	Safety in Design	N	<ul style="list-style-type: none"> ▪ Injury to a person or the environment due to poor design. 	A4	4	L	<ul style="list-style-type: none"> ▪ Only use physical components and designs to Australian, industry or international Standards. ▪ Use only Competent and trained Design Staff. ▪ Design for safe erection, installation, use, maintenance and modification. ▪ Complete site-specific risk assessments on each site. 	A4	5	L	Tallan Group and Assigned Subcontractors
5	Concreting work and pumping. (Potentially HRCW depending on specific activities and site location	Y	<ul style="list-style-type: none"> ▪ Impact with mobile plant/machinery. (Loss of limb, crushing, injuries, death) 	E4	4	H	<ul style="list-style-type: none"> ▪ Demarcation of walkways, set up exclusion zones etc. ▪ High visibility garments to be worn when working near mobile plant, e.g. mobile boom pump 	E5	5	M	Tallan Group and Assigned Subcontractors

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			<ul style="list-style-type: none"> ▪ Flying objects. Noise. (Eye and other injuries, hearing damage) ▪ Traffic passing through the site. Impact with pedestrians or other site plant. (Death, injuries from vehicles) ▪ Falling objects 				<ul style="list-style-type: none"> ▪ Qualified operators - copies of High-Risk Work Licenses or permits to be presented at site induction ▪ Boom inspection prior to use. ▪ Traffic management plan in place and includes positioning of plant. ▪ All personal to be inducted on the traffic conditions into the site. ▪ Adequate signage/barriers in the affected areas. ▪ Concrete boom to be kept clear from overhead powerlines/cables at all times. ▪ Workers not to work under overhead boom ▪ No go zones barricaded off during concrete pours above and tool boxed to all workers on site prior to pours. 				
6	Working off Ladders and Trestles	Y	<ul style="list-style-type: none"> ▪ Risk of falls & trips ▪ Ladder or trestles can move if not secured properly ▪ Falling objects 	C4	4	M	<ul style="list-style-type: none"> ▪ Secure feet of ladders ▪ Ensure ladders and trestles are serviceable for use. ▪ Ensure 3 points of contact ▪ Use handrails when over 2m ▪ Install kick boards when work is over 2m and hand rails have been attached to trestles. 	C5	5	L	Tallan Group and Assigned Subcontractors

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							<ul style="list-style-type: none"> ▪ Working platform min of 2 boards (450mm) wide and clamped together ▪ Where possible use EWP, knuckle boom or mobile scaffold. ▪ Barricade off an exclusion zone around base or work area. ▪ Tools secured to lanyards where possible. 				
7	Working with Laser Levels & Lines	Y	<ul style="list-style-type: none"> ▪ Risk of blinding and eye damage if looking into light source 	C4	4	M	<ul style="list-style-type: none"> ▪ Ensure always pointed away from eyes ▪ Set up laser not at eye height to avoid looking into ▪ Turn off when not in use 	C5	5	L	Tallan Group and Assigned Subcontractors
8	Working with Compressed air	Y	<ul style="list-style-type: none"> ▪ Flying objects. ▪ Noise. (Eye and other injuries, hearing damage) 	C4	4	M	<ul style="list-style-type: none"> ▪ Ensure plant/equipment is in good working order, registers completed tested and tagged. ▪ Air streams must not be aimed at a person. ▪ Ensure workers are trained in correct use and operations of plant/equipment. ▪ PPE is worn at all times whilst operating equipment, e.g. safety eyewear and ear muffs or ear plugs. 	C5	5	L	Tallan Group and Assigned Subcontractors
9	Working in Confined Spaces	Y	<ul style="list-style-type: none"> ▪ Unventilated area, collapsing walls, accidents. 	E4	4	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. 	E5	5	M	Tallan Group and Assigned

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			(Death, suffocation, injuries)				<ul style="list-style-type: none"> - Refer Chapter 4.3 of the WHS Regulations ▪ Confined Space Entry Permit ▪ Safe oxygen level ▪ Atmospheric contaminants in the confined space are reduced below the appropriate exposure standards, ▪ Confined space is free from extremes of temperature, ▪ Concentration of any flammable contaminant in the atmosphere of the confined space is below 5% of its LEL - Refer WHS Regulations Chapter 2 (34-35) ▪ Stand by person ▪ Rescue plan and first aid requirements for personnel ▪ Appropriate training provided and person(s) are competent in operating conditions for confined space work. ▪ Atmospheric testing provided if required. 				Subcontractors
10	Working in or on Contaminated Ground	Y	<ul style="list-style-type: none"> ▪ Unidentified/ harmful chemical(s) 	C4	4	M	<ul style="list-style-type: none"> ▪ Chemical analysis of contaminated soils, engage an occupational hygienist 	C5	5	L	Tallan Group and Assigned Subcontractors

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	(Potentially HRCW depending on site layout/conditions)						<ul style="list-style-type: none"> ▪ Adequate PPE provided; ensure correct type of PPE is supplied and worn – as referred to in the Hygienists report ▪ SDS where available ▪ Workers are made aware of contaminants ▪ Area to be barricaded off, exclusion zones in place and signage posted. ▪ - Refer to WHS Regulations Chapter 2 Division 7 (32-33) 				
11	Demolition work	Y	<ul style="list-style-type: none"> ▪ Structural collapse. Asbestos products, Synthetic Mineral Fibres. Dusts and other contaminants. (Death, crushing, cuts, inhalation, disease) 	E4	4	H	<ul style="list-style-type: none"> ▪ If the work involved demolition of a load bearing or otherwise structural member; prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ All demolition work to be carried out to the requirements of the Code of Practice for Demolition ▪ Appropriate PPE worn 	E5	5	M	Tallan Group and Assigned Subcontractors
12	Work in 'dusty' environments	Y	<ul style="list-style-type: none"> ▪ Uncontrolled dust from site (Inhalation, irritation) 	D4	4	M	<ul style="list-style-type: none"> ▪ Dust suppression strategies to be used, i.e. water spray. ▪ Install dust barriers 	D5	5	M	Tallan Group and Assigned Subcontractors
13	Working with or near 'dust' generated by a hazardous chemical	Y	<ul style="list-style-type: none"> ▪ Uncontrolled dusts including but not limited to: Cement; silica; MDF; etc. (Inhalation, eye/ 	D4	4	M	<ul style="list-style-type: none"> ▪ Dust control measures to be put in place such as extraction units or vacuum units fitted to power tools. 	D4	5	M	Tallan Group and Assigned Subcontractors

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	(Potentially HRCW depending on the nature of the dust/substance)		membrane irritation, disease)				<ul style="list-style-type: none"> ▪ Dust emitting processes must be isolated to prevent ingress to other work areas. ▪ Hazardous Chemicals Register and relevant Safe Work Method completed ▪ Appropriate PPE worn 				
14	Cranage operations	Y	<ul style="list-style-type: none"> ▪ Impact with mobile crane. (Loss of limb, crushing, injuries, death) ▪ Insufficient sole plates. Too close to excavations. Unstable base or edge ▪ Incorrect set of crane, outriggers, pigsty to underside of outriggers. (Death or injury to operator and nearby persons) ▪ Falling objects during lifting. 	E4	4	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Demarcation of walkways ▪ High visibility garments to be worn when working near cranes ▪ Qualified operators - copies of certificates of competency or permits to be presented at site induction ▪ Plant inspection prior to use ▪ Ensure adequate soleplates under outriggers, monitor for subsidence. ▪ Keep plant well back from the edges of excavations ▪ Qualified operators - copies of certificates of competency or permits to be presented at site induction ▪ A safety 'drop zone' for the specific lifts being undertaken must be nominated (where necessary, this is to 	E5	5	M	Tallan Group and Assigned Subcontractors

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							<ul style="list-style-type: none"> include areas that may be outside of the site boundaries) ▪ Ensure that the noted crane is in fact the actual crane that has arrived on-site ▪ Ensure that the operator has been trained in the operation of the specific crane that has arrived on-site. ▪ Ensure that the crane logbook is filled out prior to the crane commencing its lift operations for the day. ▪ Traffic management plan in place and includes positioning of plant. ▪ All personal to be inducted on the traffic conditions into the site. ▪ Adequate signage/barriers in the affected areas. ▪ Exclusion zones installed in pathway of lifts. ▪ Lift study created 				
15	Working near hidden live electrical cables in the walls	Y	<ul style="list-style-type: none"> ▪ Electrical cables in walls - electrocution 	D3	3	H	<ul style="list-style-type: none"> ▪ Clearly mark wall concealing the cables "Danger – Electrical Cables concealed in wall" (or similar). ▪ Ensure danger is addressed at induction and/or in tool box talks 	D4	4	M	Tallan Group and Assigned Subcontractors
16	Working near live electrical wires	Y	<ul style="list-style-type: none"> ▪ Electrocution 	D3	3	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. 	D4	4	M	Tallan Group and Assigned Subcontractors

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							<ul style="list-style-type: none"> ▪ Live (overhead) wires are to be tagged with tiger tails. ▪ Workers to be advised of live cables at induction and via tool box talks ▪ All work to be carried out to the requirements of AS/NZS 3012 				
17	Working with electrical equipment/ appliances	Y	<ul style="list-style-type: none"> ▪ Electrocution from electrical equipment 	D3	3	H	<ul style="list-style-type: none"> ▪ Test and tag electrical equipment every 3 months by licensed electrician. ▪ Socket outlets protected by 30mA RCD ▪ Flexible extensions cords to be kept off the ground on insulated hangers or stable lead stands. ▪ All extension cords are heavy duty and fitted with non-re-wire-able or transparent plugs/sockets. ▪ Distribution boards and electrical equipment kept out of water. 	D4	4	M	Tallan Group and Assigned Subcontractors
18	Emergencies	Y	<ul style="list-style-type: none"> ▪ Inappropriate rescue procedures. Insufficient equipment. (Death and or injury) 	E4	4	H	<ul style="list-style-type: none"> ▪ Ensure that all personnel doing high risk work are aware of and trained in the emergency rescue procedure appropriate for the task being performed. 	D4	4	M	Tallan Group and Assigned Subcontractors
19	Excavation work (Potentially HRCW depending on the	Y	<ul style="list-style-type: none"> ▪ Unprotected deep excavations (Falls); cliff faces could subside after heavy rainfall. (Death, 	E4	4	H	<ul style="list-style-type: none"> ▪ All work to be carried out to the requirements of the Code of Practice – Excavation Work 	E5	5	M	Tallan Group and Assigned Subcontractors

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	nature of the excavation)		falls, crushing, injuries from falling rock etc.) <ul style="list-style-type: none"> ▪ Ground collapse ▪ Water inrush ▪ Falls ▪ Hazardous manual tasks ▪ Underground services ▪ Lasers- Exposure to irradiation 				<ul style="list-style-type: none"> ▪ Deep excavations to be benched, battered or shoring installed. ▪ Cliff faces to be reviewed by Geotechnical engineer for stability. ▪ Pumps or other dewatering systems to remove and prevent water build up to be on site. ▪ Ramps, steps or other appropriate access into the excavation. E.g. ladders ▪ Rotate tasks between workers ▪ Obtain information from relevant authorities on the location of underground services. E.g. (dial before you dig and local councils) ▪ Barricades and signage to excavation area, restricting access. ▪ The use of flashing lights and reversing warning on all plant and machinery. ▪ Deep excavations and trenches to be fenced off. ▪ Mechanical plant, vehicles, storage of materials (including excavated material) or any other heavy loads should not be located in the 'zone of influence' of an excavation unless the ground support system installed has been designed by a competent person (e.g. a geotechnical 				

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							<p>engineer) to carry such loads. The zone of influence will depend on the ground conditions. It is the zone in which there may be an influence on the excavation, including possible ground collapse</p> <ul style="list-style-type: none"> ▪ Lasers that are capable of producing hazardous diffuse reflections or that may constitute a fire hazard, laser classes 3B and 4 must not be used in construction work. ▪ Any worker operating lasers must be trained in the use of the equipment. ▪ All trenches over 1.5m deep must be secured (barricaded) to stop unauthorized access, including inadvertent entry. (WHS Regs Sect 306) 				
21	Working below others	N	<ul style="list-style-type: none"> ▪ Falling object from upper levels (Injury to persons below or nearby) 	D3	3	H	<ul style="list-style-type: none"> ▪ Installation of fencing or other physical barrier to prevent objects falling on personnel below. ▪ Hand tools to be fitted with approved lanyards, if people are working directly below, (roof works) 	B4	4	L	Tallan Group and Assigned Subcontractors
23	Formwork (Potentially HRCW)	N	<ul style="list-style-type: none"> ▪ Fall from heights. ▪ Collapse during concrete pour. 	D3	3	H	<ul style="list-style-type: none"> ▪ All work to be carried out to the requirements of the Code of Practice – Formwork 	B4	4	L	Tallan Group and Assigned Subcontractors

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			<ul style="list-style-type: none"> ▪ Falling objects (struck by) 				<ul style="list-style-type: none"> ▪ Exclusion zones set up and toolbox talked to all workers. ▪ Scaffold erected with catchment platform or working platform. ▪ All tools and equipment kept away from edge of formwork. 				
24	Working with or near gas bottles	N	<ul style="list-style-type: none"> ▪ Incorrect storage of gas cylinders. (Burns, death, impact with cylinders) 	E5	5	M	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Store Oxygen and Acetylene cylinders separately, at least 3 metres apart. ▪ Flashback arresters to be installed on all oxy/acetylene equipment. ▪ Where the hose exceeds 10m in length, flashback arresters should be fitted at both the handset and bottle ends. ▪ Restrain bottles upright (cage or chain) ▪ Safety Data Sheets available and used ▪ All gas cylinders shall have their content clearly marked on the outside of each cylinder. ▪ Cylinders must be placed and secured in an upright position, including storage and transport and 	B5	5	L	Tallan Group and Assigned Subcontractors

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							<ul style="list-style-type: none"> ▪ all oxy sets in a trolley when in use and secured with chain or straps. ▪ All leaking or defective cylinders must be removed from service promptly, tagged as inoperable and placed in an open space removed from the work area. ▪ All operators are required to inspect equipment prior to utilisation. Oxygen and flammable gas cylinders placed in storage are to be kept apart. ▪ Full and empty cylinders are to be stored separately and protected from excess heat or physical damage ▪ For gaseous fire protection system cylinders; <ul style="list-style-type: none"> - Leave these cylinder(s) strapped/secured in place. - Contact a fire service company to deactivate, disconnect and to 'make safe' the cylinder(s) for removal. 						
25	Grit blasting	N	<ul style="list-style-type: none"> ▪ Eye injuries and abrasions. Flying Objects 	E5	5	M	<ul style="list-style-type: none"> ▪ Keep others away. ▪ Appropriate PPE to be worn. 	B5	5	L	Tallan Group and Assigned Subcontractors		
27	Working with or near Hazardous chemicals	Y	<ul style="list-style-type: none"> ▪ Burns, ingestion irritation, absorption. 	D4	4	M	<ul style="list-style-type: none"> ▪ Contain hazardous fluids as per storage instructions and/or in flammable goods store. 	B5	5	L	Tallan Group and Assigned Subcontractors		

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	(Potentially HRCW depending on the nature of the chemical)						<ul style="list-style-type: none"> ▪ Report all spills to the Site Manager. ▪ Usage as per SDS, SWMS, appropriate PPE, Hazardous Chemical Register ▪ Where possible, chemicals should be stored according to their class. That is, flammables stored with flammable, but not with corrosives. ▪ All chemicals on site will be stored in a well-ventilated area. ▪ No fuels are to be stored on site overnight or over 20 litres per contractor. ▪ Any dangerous goods stored on site must be kept in a well shaded area or receptacle with compatible fire extinguisher and spill kits with free-flowing ventilation, bunds that will contain at least 100% of the largest tank and 25% of the total capacity for liquid containers. Typical sea containers without ventilation or bunding will not be acceptable. 						
29	Hot Works	Y	<ul style="list-style-type: none"> ▪ Uncontrolled sparks near flammables. Eye injuries from unshielded work (Burns, death, eye injuries, other injuries) 	E4	4	H	<ul style="list-style-type: none"> ▪ Hot works permit ▪ Keep flammable materials away. ▪ Housekeeping ▪ Provide fire extinguisher. ▪ All work to be carried out behind flash screens. 	D4	4	M	Tallan Group and Assigned Subcontractors		

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							<ul style="list-style-type: none"> ▪ Adequate air ventilation. ▪ Flashback arresters to be installed on all oxy/acetylene equipment. ▪ Where the hose exceeds 10m in length, flashback arresters should be fitted at both the handset and bottle ends. 				
30	Working with or near Internal combustion engines - carbon monoxide/dioxide	N	<ul style="list-style-type: none"> ▪ Internal combustion engines operating nearby. (Suffocation) 	E4	4	H	<ul style="list-style-type: none"> ▪ Internal combustion engines are not to be used in confined spaces ▪ Keep exhaust fumes away ▪ Where necessary, monitor O2 with air quality monitor. 	D4	4	M	Tallan Group and Assigned Subcontractors
31	Manual handling	N	<ul style="list-style-type: none"> ▪ Manual handling injuries. 	C4	4	M	<ul style="list-style-type: none"> ▪ Mechanical assistance to be provided for heavy objects. ▪ Provide adequate training in manual handling procedures. ▪ Lift within persons capacity 	A4	4	L	Tallan Group and Assigned Subcontractors
32	Working in or around noisy equipment (above 85dBA)	N	<ul style="list-style-type: none"> ▪ Hearing loss due to long term exposure to high noise levels. 	C4	4	M	<ul style="list-style-type: none"> ▪ Wear appropriate PPE. ▪ Establish isolated areas and/or restriction zones. ▪ Provide and take note of warning signage. 	A4	4	L	Tallan Group and Assigned Subcontractors
33	Operation of plant or machinery - unstable base/edge	Y	<ul style="list-style-type: none"> ▪ Insufficient sole plates. ▪ Too close to excavations. ▪ Unstable base or edge (Death or injury to 	E4	4	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Ensure adequate soleplates under outriggers, monitor for subsidence. 	C4	4	M	Tallan Group and Assigned Subcontractors

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			operator and nearby persons)				<ul style="list-style-type: none"> ▪ Keep plant well back from the edges of excavations. ▪ Qualified operators - copies of certificates of competency or permits to be presented at site induction ▪ Materials are not placed or stacked near the edge of any excavation ▪ Excavated material to be placed outside the zone of influence. Alternatively, a ground support system is to be designed and installed to carry additional loads, including any ground water pressures, saturated soil conditions and saturated materials ▪ Powered mobile plant not to operate or travel near the edge of an excavation unless a ground support system is installed and has been designed by a competent person to carry such loads. Physical barriers to be installed to stop plant getting close the edges. 				
34	Working near overhead services power/ communication	Y	<ul style="list-style-type: none"> ▪ Contact with personnel, equipment and machinery (Electrocution) 	E3	3	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Contact Energex for safety advice. ▪ Visually identify with "Tiger Tails". 	C4	4	M	Tallan Group and Assigned Subcontractors

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							<ul style="list-style-type: none"> ▪ Isolate wherever possible. ▪ Provide insulated barriers when working within the safety limits. ▪ Include details in Site Induction 				
35	Working over or adjacent to penetrations (Potentially HRCW depending on the 'fall' height)	Y	<ul style="list-style-type: none"> ▪ Uncovered penetrations. (Falls) 	D3	3	H	<ul style="list-style-type: none"> ▪ Fixed covers or temporary fencing over or around all penetrations. ▪ Ladders within 3 metres or edge must be secured. ▪ Persons using ladders within 3 metres must use fall restraint 	C3	3	M	Tallan Group and Assigned Subcontractors
36	Working with or near plant or machinery E.g. EWP's and mobile knuckle booms	Y	<ul style="list-style-type: none"> ▪ Impact with mobile plant/machinery. (Loss of limb, crushing, injuries, death) ▪ Falling objects (struck by) 	E3	3	5	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Demarcation of walkways ▪ High visibility garments to be worn when working near mobile plant ▪ Qualified operators - copies of certificates or validation of competency or permits to be presented at site induction ▪ Plant/machinery inspection prior to use ▪ Tools and equipment secured at all times, where possible tools to be attached to lanyards. ▪ Exclusion zones set up and toolbox talked to all workers. 	C3	3	M	Tallan Group and Assigned Subcontractors

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37	Working on or near precast panels	Y	<ul style="list-style-type: none"> ▪ Insufficient propping or bracing of precast panels. Exceeding point loading limits of suspended slabs, etc. (Crushing, injury from flying fractured material) 	E5	5	M	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ All panels to have at least two braces ▪ All braces to be in place before unhooking from crane. ▪ Materials to be distributed evenly over the suspended slab. ▪ All work to be in accordance with the Nation Code of Practice for Precast, Tilt Ups and Concrete Elements in Building and Construction Feb 2008 and Tilt-up and Pre-cast Construction COP 2003. 	C4	4	M	Tallan Group and Assigned Subcontractors
38	Public Access	N	<ul style="list-style-type: none"> ▪ Impact with construction processes. (Death, injuries) 	D4	4	M	<ul style="list-style-type: none"> ▪ Signage directing unauthorised persons to keep out and security fencing. 	B4	4	L	Tallan Group and Assigned Subcontractors
39	Spray painting (Potentially HRCW depending on the nature of the chemicals involved)	Y	<ul style="list-style-type: none"> ▪ Aerosols. (Fume inhalation, eye and membrane damage) 	C4	4	M	<ul style="list-style-type: none"> ▪ Keep others away. ▪ Set up exclusion zones ▪ Appropriate PPE to be worn. 	B4	4	L	Tallan Group and Assigned Subcontractors
40	Steam cleaning	N	<ul style="list-style-type: none"> ▪ Reduced visibility. (Burns/scalds). 	D3	3	H	<ul style="list-style-type: none"> ▪ Keep others away. ▪ Set up exclusion zones ▪ Appropriate PPE to be worn. 	B4	4	L	Tallan Group and Assigned Subcontractors

No.	Activity or Stage	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequence	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequence	Likelihood	Residual Risk Rating (H,M,L)	Responsible for control measures?
41	Scaffolding- including mobile scaffold (Potentially HRCW depending on the 'fall' height)	Y	<ul style="list-style-type: none"> ▪ Incomplete scaffold. (Falls), manual handling, ▪ falling objects, ▪ electrocution. ▪ Trips and falls 	D3	3	H	<ul style="list-style-type: none"> ▪ All work to be carried out in accordance with scaffolding standards AS/NZS 1576 and AS/NZS 4576 ▪ Certificates of compliance for the scaffold to be supplied by the subcontractor before scaffold can be used. ▪ "Incomplete Scaffold" signs to be displayed in affected areas along with physical barriers installed to prevent access. E.g. ply boards, hop ups installed, transoms or tube and coupler. ▪ Manual Handling training conducted by subcontractor ▪ PPE ▪ Overhead powerlines and power cords kept away from scaffold. ▪ Power to be isolated when installing scaffolding close to energised power or within exclusion zones ▪ Non-conductive / protection material to be installed as a barrier/ protection when scaffold is erected within clearance guidelines. ▪ Kick boards installed AS/NZS 1576 and AS/NZS 4576 and scaffold COP. 	B3	3	M	Tallan Group and Assigned Subcontractors

No.	Activity or Stage	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequence	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequence	Likelihood	Residual Risk Rating (H,M,L)	Responsible for control measures?		
							<ul style="list-style-type: none"> ▪ Hoarding/containment mesh installed to scaffold ▪ Designs plans submitted to Tallan Group as a minimum covering the following: <ol style="list-style-type: none"> 1. Basis of design, 2. Foundations (including ground conditions and loadings), 3. Supporting structure, 4. Access and egress, 5. Tying, 6. Bracing, 7. Type of scaffold, and 8. Edge protection. ▪ All mobile scaffolding will require a manufacturer design label attached. ▪ When scaffolding is not in use as well as when works have been completed for the day all tools, equipment, excess materials and rubbish are to be removed and all access areas kept clear. 						
43	Structural works (Potentially HRCW depending on the nature of the work)	Y	<ul style="list-style-type: none"> ▪ Structural collapse 	E5	3	H	<ul style="list-style-type: none"> ▪ Engineer's inspections ▪ Appropriate supports used ▪ Set up exclusion zones ▪ Wearing of appropriate PPE 	C3	3	M	Tallan Group and Assigned Subcontractors		

No.	Activity or Stage	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequence	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequence	Likelihood	Residual Risk Rating (H,M,L)	Responsible for control measures?
44	Working on or near traffic or mobile vehicles	Y	<ul style="list-style-type: none"> ▪ Traffic passing through the construction site. Impact with pedestrians or other site plant. (Death, injuries from vehicles) 	E4	4	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Traffic management plan in place. ▪ All personal to be inducted on the traffic conditions into the site. ▪ Adequate signage/barriers in the affected areas. 	B4	4	L	Tallan Group and Assigned Subcontractors
45	Working on or near underground power/communications	Y	<ul style="list-style-type: none"> ▪ Contact with personnel and machinery (Electrocution) 	E5	3	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Contact Dial before you dig ▪ Services location consultant to carry out a site survey to identify all existing service locations. ▪ Identify services on drawings, issue to subcontractors 	C3	3	M	Tallan Group and Assigned Subcontractors
46	Working in or near unventilated pits/drains - hydrogen sulphide or methane	Y	<ul style="list-style-type: none"> ▪ Unventilated pits/drains. 	E5	5	M	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Monitor O2 Levels, and H2S levels with an air quality monitor 	B5	5	L	Tallan Group and Assigned Subcontractors

No.	Activity or Stage	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequence	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequence	Likelihood	Residual Risk Rating (H,M,L)	Responsible for control measures?
							<ul style="list-style-type: none"> ▪ Provide supplied air respirators where H2S is present ▪ Forced air ventilation where methane is present. 				
47	Working in or near vapours	Y	<ul style="list-style-type: none"> ▪ Unventilated storage areas. (Inhalation, suffocation) 	E5	5	M	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Ensure that all vaporising liquids are stored in a ventilated area. ▪ Provide forced air ventilation if required. ▪ Chemicals Register maintained ▪ Safe Work Methods established and implemented ▪ Wear appropriate PPE. 	B5	5	L	Tallan Group and Assigned Subcontractors
49	Work on or near live electrics	Y	<ul style="list-style-type: none"> ▪ Electrocution. 	E3	3	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ All work to be carried out to the requirements of AS/NZS 3012 	C3	3	M	Tallan Group and Assigned Subcontractors
50	Working on roofs	Y	<ul style="list-style-type: none"> ▪ Unprotected edges. (Falls) ▪ Falling objects eg tools and materials (struck by) 	E3	3	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Fall protection as per the Code of Practice Managing the Risks of Falls at the workplace. 	C4	4	m	Tallan Group and Assigned Subcontractors

No.	Activity or Stage	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequence	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequence	Likelihood	Residual Risk Rating (H,M,L)	Responsible for control measures?	
							<ul style="list-style-type: none"> ▪ All workers when working on the roof must be double clipped at all times as per roof induction ▪ Only tools and materials required for task to be on roof during work. ▪ Tools attached to lanyards where possible ▪ Materials secured in place during work, ▪ Exclusion zones put in place for workers below. 					
51	Other working at heights	Y	<ul style="list-style-type: none"> ▪ Unprotected edges and penetrations (Falls) 	E3	3	H	<ul style="list-style-type: none"> ▪ Prepare a Safe Work Method Statement for the work outlining specific controls to be implemented. ▪ Provide temporary handrails complete with mid-rail and toe boards on all elevated surfaces. ▪ Fall protection as per the Code of Practice Managing the Risks of Falls at the workplace. ▪ All workings from ladders must be kept back at least 3 metres from edge/ handrails 	B3	3	L	Tallan Group and Assigned Subcontractors	

Other activities or hazards and/or risks for this project:

(Please list them here)

Activity	HRCW (Y/N)	Potential Hazards and (Risks) as they apply to this site	Consequenc	Likelihood	Inherent Risk Rating (H,M,L)	Risk Controls / Measures	Consequenc	Likelihood	Residu al Risk Rating (H,M,L)	Responsibl e for control measures ?