

Pre-Construction Minor Works Approval Form

Minor Works are defined as any low impact activities that are undertaken prior to the commencement of 'construction' as defined in the project's applicable planning approval. However if Minor Works affect or potentially affect heritage items, threatened species, populations or endangered ecological communities, these works are defined as 'construction' unless otherwise determined by the applicable planning authority.

Minor Works approvals do not remove any obligation to comply with the project's applicable planning approval conditions (including requirements prior to 'any works' commencing) or obtain any other applicable permits, licenses or approvals as necessary.

This application and all supporting information must be submitted to TfNSW/the Environmental Representative as one (1) PDF file at least 10 business days prior to the commencement of the proposed Minor Works.

Part 1: Application	
Contractor:	UEA Electrical Pty Ltd
Project:	Eddy Avenue Ausgrid ASP 1 enabling works
Application Title: (e.g. Smith St trenching works)	Eddy Avenue ASP 1 enabling works- open trenching for conduit installation
Application Number:	001
Application Date:	15 th February 2017 20 th February 2017 (resubmission)
Planning Approval:	SSI 15_4700
Minor Works Categories: <ul style="list-style-type: none"> Highlight as applicable. If Items 4, 8 or 11 are applicable, this form must be endorsed by an Environmental Representative. 	<ol style="list-style-type: none"> Survey, survey facilitation and investigations works (including road and building dilapidation survey works, drilling and excavation). Treatment of contaminated sites. Establishment of ancillary facilities (excluding demolition), including construction of ancillary facility access roads and providing facility utilities. Operation of ancillary facilities that have minimal impact on the environment and community. Minor clearing and relocation of vegetation (including native). Installation of mitigation measures, including erosion and sediment controls, temporary exclusion fencing for sensitive areas and acoustic treatments. Property acquisition adjustment works, including installation of property fencing and utility relocation and adjustments to properties. Utility relocation and connections. Maintenance of existing buildings and structures. Archaeological testing under the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010) or archaeological monitoring undertaken in association with other Minor Works to ensure there is no impact on heritage items. Any other activities that have minimal environmental impact, including construction of minor access roads, temporary relocation of pedestrian and cycle paths and the provision of property access.
Planning Authority Determination: Will the proposed works affect or have the potential to affect heritage items, threatened species, populations or endangered ecological communities?	<i>If 'Yes', this completed form must be endorsed by an Environmental Representative, approved by TfNSW and submitted to the applicable planning authority to determine that the works are not defined as 'construction'.</i> Yes, proposed works are inside the Central Station heritage curtilage as per the attached ECM.

Part 2: Details

<p>Describe the proposed Minor Works:</p> <p>Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).</p>	<p>Installation of 4 x 150mm Ausgrid Conduits crossing Eddy Avenue at the Northern end. Open excavation and backfilling methodology to install conduits. No excavations are to be left open at the end of each shift. Conduit installation is limited between kerblines to kerblines. Refer to ASP 3 design drawing. Works will be undertaken by utility size excavators working with trucks for spoil disposal.</p> <p>Utilities will be potholed and positively identified using non-destructive methods to enable a sign off with the permit to excavate. Trench line will be cut with road saws and slurry contained with wet vac equipment. Road pavement excavated with excavator equipment, PVC conduits laid as per NS 130 and backfilled with 14L:1 stabilised sand. Road pavement temporary hotfixes with asphalt</p> <p>Machinery will include:</p> <ul style="list-style-type: none"> • 1 x 8 tonne excavator • 2 Site Trucks • 1 Roller • 1 Skid steer • 2 Skip bins • 1 Agitator concrete trucks for stabilised sand
<p>Planned Commencement Date:</p>	<p>24th April 2017 for 2 x 12 hr shifts per day until Thursday 27th April 06.00</p>
<p>Local Sensitivities:</p> <p>Describe the presence (if any) of local sensitive environmental areas and community receptors.</p>	<p>Belmore park homeless people, heritage bridge structure, heritage kerb, residential receivers on Elizabeth Street (between Foveaux St and Kippax St)</p>

Part 3: Environmental Risk Assessment and Management

<p>Prepare an Environmental Risk Assessment (in accordance with the <i>Sydney Metro Risk Management Standard</i>) and an Environmental Control Map for the proposed Minor Works and attach as Appendix 1.</p> <p>If an Environmental Risk Assessment and/or an Environmental Control Map for the proposed Minor Works is/are already contained in existing documentation, attach the relevant section(s) as Appendix 1.</p>	
<p>Documentation:</p> <p>List any existing documents (including those referenced above) that the proposed Minor Works will be undertaken in accordance with and attach as Appendix 2 (e.g. plans, procedures, etc.).</p>	<p><i>Refer to UEA WHS safety plan, attached ECM and Risk Assessment.</i></p>

Part 4: Workforce Notification

<p>How will the environmental and community risks and associated mitigation measures of the proposed Minor Works be communicated to the contractor's workforce?</p>	<p>Workforce will undertake a site induction at the start of works where the ECM and risk assessment will be discussed. Heritage induction will also be undertaken at start of works.</p>
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Part 5: Community Consultation

<p>What community consultation has been undertaken already?</p>	<p>Nil at this stage in regards to these works of submitting application.</p>
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(Uncontrolled when printed)

What community consultation is planned to be undertaken?	Letter box drop to sensitive receivers to occur 7 days prior to works starting. Liaison with CoS homeless officer (Sydney Metro) to provide information to affected homeless community in Belmore Park.
If drafted already, attach applicable Community Notification as Appendix 3.	

Part 6: Contact Details

Nominate contractor’s project manager, environmental and communications contact(s).

Name:	Lee McCourt	Position:	Contracts manager	Phone:	0407263225

Part 7: Signature

This signature acknowledges that the proposed Minor Works will be undertaken in accordance with this application, have minimal environmental impact and are not defined as ‘construction’ in accordance with the applicable planning approval.



Name:	Lee McCourt		
Signature:	<i>LAMcCourt</i>	Date:	19/4/2017

Determination Page

(TfNSW/Environmental Representative Use Only)

12. Endorsement/Approval

These signatures represent formal endorsement/approval for the proposed Minor Works to commence in accordance with this application and the applicable planning approval requirements (subject to any determination from the applicable planning authority as may be required by the planning approval conditions).




	TfNSW Principal Manager, Communication & Engagement – Endorsement (required for all applications)	TfNSW Principal Manager, Sustainability, Environment & Planning – Approval (required for all applications)	Environmental Representative – Endorsement (required as necessary in accordance with the applicable planning approval, optional for all other circumstances)
Signature:			
Name:	MICHAEL LLOYD O.B.O ANITA BROWN	FIL CERONE	
Date:	21/4/17	21/4/17	
Comments:			Supporting letter attached as Appendix 4 if necessary.
Conditions:	APPROVED SUBJECT TO CONFIRMATION OF WORKING HOURS ALLOWED ON TUESDAY 25 APRIL BY ALI LAWSON	APPROVED SUBJECT TO WORKING HOURS AS ALLOWED ON APRIL 25.	Supporting letter attached as Appendix 4 if necessary.
<input checked="" type="checkbox"/>	Approved (by TfNSW)		
<input type="checkbox"/>	Endorsed (by Environmental Representative)		
<input type="checkbox"/>	Rejected		

Determination Page

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	TfNSW Principal Manager, Communication & Engagement – Endorsement (required for all applications)	TfNSW Principal Manager, Sustainability, Environment & Planning – Approval (required for all applications)	Environmental Representative – Endorsement (required as necessary in accordance with the applicable planning approval, optional for all other circumstances)
Signature:			
Name:	Michael Lloyd	FIL CORONE	Annabelle Tungol Reyes
Date:	1/3/17	8/3/17	28 February 2017
Comments:	Nil		<p><i>Supporting letter attached as Appendix 4 if necessary.</i></p> <p>Proposed works are inside the Central Station heritage curtilage as per the attached ECM.</p> <p>Planning Authority Determination/Approval is required prior to start work.</p>
Conditions:	Nil		<p><i>Supporting letter attached as Appendix 4 if necessary.</i></p> <p>This application is endorsed with the following conditions:</p> <ol style="list-style-type: none"> No works to commence without Planning Authority approval. Update the SWMS and TfNSW Risk Assessment Table as per ER comments noted in the document. Traffic Control Plan to developed and implemented as per RMS accredited traffic control service providers. Applicable Mitigation Measures as per PIR/EIS for heritage, traffic, waste management, soil and water to be implemented and ensure these are documented in the SWMS and UEA environmental management plan. Community notifications prior to work commencing.
<input checked="" type="checkbox"/> Approved (by TfNSW)			
<input checked="" type="checkbox"/> Endorsed (by Environmental Representative) with conditions			
<input type="checkbox"/> Rejected			

Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map.



Mr Stuart Hodgson
Program Sustainability Environment & Planning
Sydney Metro Delivery Office
PO Box 588
North Ryde BC NSW 1670

Our ref: SSI 7400

Dear Mr Hodgson

**Sydney Metro City and Southwest – Chatswood to Sydenham (SSI 7400)
Low impact works – potential heritage impact consideration**

Thank you for your letters of 8 February 2017, requesting consideration if certain low impact works at Central Station and Hickson Road, Barangaroo are 'construction'. I also note Ms Nicole William's email of 13 February 2017, further detailing the extent of the proposed works.

The Department has reviewed your request, in consultation with the Office of Environment and Heritage (OEH). Following this review, I have determined that the following low impact activities and investigation works are not 'construction' for the purposes of the definition in the Infrastructure Approval for SSI 7400:

Activities with minimal environmental impact

Installation of four plastic conduits in a 25 m long trench across Eddy Avenue at the northern end of Central Station, including:

- Ground penetrating radar (non-intrusive scanning) to show utility locations;
- Concrete/road cutting;
- Excavation to up to 3m depth;
- Backfill with a stabilised cement/ sand mix; and
- Restoration to the road surface.

Investigation works

Central Station

- Coring into walls of underground tunnels;
- Slit trenching to identify utilities areas within track areas and Sydney Yard; and
- Contamination and geo-tech boreholes within Sydney Yard.

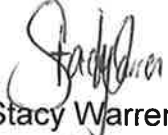
Hickson Road, Barangaroo

- Slit trenching across Hickson Road to identify services.

You are required to implement the mitigation measures set out in your letters of 8 February 2017, Ms William's email of 13 February 2017 and OEH's letter of 2 March 2017. You must also ensure the works are endorsed by the independent Environmental Representative.

If you have any queries, please contact Jonathan Kerr, Post Approvals – Infrastructure at the Department on 02 9274 6337 or by email jonathan.kerr@planning.nsw.gov.au

Yours sincerely

 3-3-17

Stacy Warren

Director

Infrastructure – Post Approvals
as delegate of the Secretary.

Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map.

Risk Register & Management Plan

Project: TfNSW

Date: 3/03/2017

printed: (date revise)

Key:

Likelihood: 1 = Almost Certain, 2 = Very Likely, 3 = Moderate, 4 = Unlikely, 5 = Rare

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Risk Authority

G.M and/or O.M

P.M and/or O.M and/or HSEQ.M

P.M

(1*)

High 2 - 4
Medium 5 - 6
Low 7 - 10

Risk Area	Risk No.	Risk Description	Likelihood	Consequence	Risk Total (1*)	Risk Type	Action / Control	Likelihood	Consequence	Residual Risk Total (1*)	Action Owner
P O L I T I C A	1	Intervention due to community issues - outages, disturbance	2	2	High		TfNSW coms team to take lead and advise. (7 days notification prior to works)	4	4	Low	Client and UEA
E C O N O M I C A L	2	Supply of suitable internal resources - Contractors	2	3	Medium		Recruit suitably trained and qualified personnel to fill positions required for the contract	4	5	Low	OM and PM
	3	Supply of suitable external resources - Contractors	2	3	Medium		Explore market interest for Level 2 Subcontractor to perform works for UEA if deployment plan falls behind due to unforeseen circumstances. Level 2 Category 3 and 4 contractors (approx. 250 companies with approx. 700 Authorised people?)	4	5	Low	OM and PM
	4	Supply of suitable resources - technical support staff etc.	2	3	Medium		Recruit suitably qualified Supervisors and leading hand/crew leaders to lead crews.	4	4	Low	OM and PM
S T R A T E G I C	5	Delivery Strategy unrealistic	3	2	Medium		Develop delivery forecast from previous average numbers based on historical works program	3	4	Low	OM and PM
	6	Specification issues due to conflicts between Clients Spec, liability for resolving customer installation issues and NSW Service & Installation Rules	3	2	Medium		Final Specification needs to be very clear and have protocols for dealing with replacements and other issues including protocols for resolving issues. Spec to be reviewed	4	4	Low	OM and PM
	7	Delivery Strategy to address potential growth in program	4	2	Medium		Strategy needs to assess risk of client requesting to ramp up or delay services delivery. UEA to assess scenario's with mobilisation plan on alternative models	4	3	Low	OM and PM
	8	Inadequate generic Specification	3	2	Medium		UEA to review Spec and seek clarification on any items that are raised as concerns or items that are unclear	4	4	Low	OM and PM
	9	Reputational risk if UEA doesn't manage stakeholders properly	3	2	Medium		Regular supervision of workers. Workers to have client contractor authorisation. Supervisors to be available for Stakeholder Management	4	4	Low	OM and PM
C	10	Contract not properly established at Award	3	2	Medium		Develop Schedule of Rates (SOR) contract. Ensure that Procurement establish contract properly, with relevant stakeholder involvement	5	4	Low	OM and PM
	11	Delayed approval process for contract	3	3	Medium		UEA to review contract and seek clarification on any items of concern.	3	4	Low	OM and PM
	12	Changed scope requirements - major variations	3	3	Medium		UEA to review Scope of Works inclusions in relation to client expectations and contractual requirements	4	4	Low	OM and PM
	13	Contract halt due to external factors or major safety breach	3	1	High		UEA to have a redundancy plan for fleet and workers.	5	4	Low	OM and PM

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G.M and/or O.M

P.M and/or O.M and/or HSEQ.M

P.M

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Low 7 - 10

Risk Area	Risk No.	Risk Description	Likelihood	Consequence	Risk Total (1*)	Risk Type	Action / Control	Likelihood	Consequence	Residual Risk Total (1*)	Action Owner
O M M E R C I A L	14	Excessive cost of mobilisation	3	3	Medium		Create Tooling and equipment list for procurement and seek RFQ from suppliers within the Electrical supply industry to ensure UEA receive best market rates	4	4	Low	OM and PM
	15	UEA credit capacity to procure resources	3	2	Medium		Review UEA credit limit to align with estimated resource costing. Estimate costing for tooling and equipment	4	4	Low	OM and PM
	16	Low supplier credit limits	2	3	Medium		UEA to review credit limits with Suppliers	4	4	Low	OM and PM
	17	Process for variations, latent conditions, dilapidation issues etc.	3	2	Medium		UEA to develop a process flow for reporting issues identified in the field and a process flow for variations to Scope. UEA to include the Quality provisions in the UEA Contract Specific Induction	4	4	Low	OM, PM & HSEQ
	18	Liability for latent issues e.g. a failure post-completion of the works	3	1	High		Quality assurance testing and control applied to works	4	3	Low	OM and PM
O R G A N I S I A T I O N A L	19	IR Issues	3	2	Medium		Regular consultation & communications with staff. Implement proper QC and safety compliance controls Include key HR components in UEA Induction.	4	3	Low	OM, PM & HSEQ
	20	Inadequate Systems & Procedures for Subcontractor Management	3	2	Medium		Utilise framework for engaging and managing Subcontractors	4	4	Low	OM, PM & HSEQ
	21	Roles & responsibilities not well defined	2	3	Medium		UEA to include roles and responsibilities in the UEA contract Specific Induction and form part of employment agreement. Roles and responsibilities to form part of UEA Contract Specific Induction	4	4	Low	OM, PM & HSEQ
	22	Inadequate resources to Project Manage contract	3	2	Medium		Identify resource requirements in Delivery Plan and develop org structure to suit. Seek interested parties to fill positions required	4	4	Low	GM and OM
	23	Inadequate resources to Supervise contract work force	2	3	Medium		Identify resource requirements in Delivery Plan and develop org structure to suit. Seek interested parties to fill positions required	4	4	Low	OM and PM
	24	Inadequate resources to Administer contract	2	3	Medium		Identify resource requirements in Delivery Plan and develop org structure to suit. Seek interested parties to fill positions required	4	4	Low	OM and PM
	25	Inadequate resourcing to develop documentation	2	3	Medium		Resource SME to develop contract documentation	4	4	Low	GM and OM
	26	Inadequate accommodation	3	2	Medium		UEA to review current depot size for suitable accommodation of new fleet and materials	4	5	Low	GM and OM
	27	Approval of UEA supplied items (not on approved equipment list)	3	2	Medium		UEA to review approved materials list and procure equipment only on the approved equipment list	4	4	Low	OM and PM
	28	UEA unable to promote a safety culture to the workforce	3	2	Medium		*UEA HSEQ team to develop a Safety initiative program to empower workers to make the right decisions *UEA to have a recognition program	4	4	Low	UEA HSEQ

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Risk Area	Risk No.	Risk Description	Likelihood	Consequence	Risk Total (1*)	Risk Type	Action / Control	Likelihood	Consequence	Residual Risk Total (1*)	Action Owner
ENVIRONMENT	29	Personnel skills inadequate	3	3	Medium		*Continuous recruitment, adopt alternative recruitment approaches, investigate use of ASPs to carry out this work. *Develop workforce skills with via additional training *Ensure staff have appropriate Authorisations. *Develop a framework for annual Performance review meetings and annual assessments	4	4	Low	OM and PM
	30	Workers not following requirements of Env Man Plan e.g. dust control; spill control, asbestos, heritage.	3	2	Medium		Field Supervisors to be appropriately qualified to ensure appropriate Env. systems and procedures are followed. Conduct regular Env audits on field activities. Include the Management Plans in the UEA Contract Specific Induction	3	4	Low	PM and HSEQ
	31	Incorrect disposal of contaminated waste	3	2	Medium		UEA to include identification of contaminated waste examples and controls in the Environmental Management Plan and provide training to workers	4	4	Low	PM and HSEQ
	32	Noise & general disturbance	2	3	Medium		UEA to train workers in working hours as per Spec • Ensure that cutting works are performed in nominated work hours as detailed by the project EIA Out Of Hours (OOH) noise assessment provisions to be followed where an exceedance is identified above current assessment.	4	4	Low	PM and HSEQ
	33	Damage to third party property	3	2	Medium		Daily Hazard Assessment Checklist (HAC) and interaction with client. UEA to rectify any damages caused by UEA workers and dilapidation report Dial Before You Dig searches and permit requirements of Utility asset owners	4	4	Low	PM and HSEQ
	34	Plant emits excessive exhaust fumes or smoke	3	3	Medium		Make way to nearest service station and apply "Adblue" to exhaust If emissions persist, contact fleet manager immediately for repairs	5	5	Low	PM, SP, LH, FM
	35	Spill incident contaminating the Environment	3	2	Medium		UEA to have an Environmental Emergency Response procedure in the UEA Contract Specific Induction pack. Spill kits on each item of major plant.	4	3	Low	PM and HSEQ
	36	Pollution to air or waterway (Saw cutter or demo saw)	1	2	High		• For wet use cutting machines, ensure that silt controls are used around waterways and minimal water is used • Wet vacuum may be required for excessive waste • For dry use machines, ensure that excessive dust is sprayed down prior to becoming airborne • Protect waterways with silt controls	5	4	Low	SP, LH

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Risk Area	Risk No.	Risk Description	Likelihood	Consequence	Risk Total (1*)	Risk Type	Action / Control	Likelihood	Consequence	Residual Risk Total (1*)	Action Owner
E N T A L	37	Waterway pollution	1	2	High		<ul style="list-style-type: none"> • Avoid tracking sediment onto road ways by the removal of build up from tyres, machinery tracks and workers boots • Place silt controls around drainage pits to prevent ingress of sediment or oil leaks from plant • Pump clean trench water (no oil or contaminants) through a silt cover on pump head over grassed area to dissipate. Do not allow run off into uncontrolled areas • Trench or pit water that contains oil and contaminants shall be removed by water tanker and disposed of at a licenced waste facility 	5	4	Low	PM, SP, LH
	38	Stockpile cross contamination	3	2	Medium		Spoil directly loaded and removed form site	5	4	Low	PM, SP, LH
	39	Incorrect classification	1	2	High		<ul style="list-style-type: none"> • Virgin Excavated Natural Material (VENM) to be reused as backfill where permissible or dispose to landfill classified as VENM • ENM can be reused after being correctly classified or dispose to landfill classified as ENM • Contaminated material to be separated from clean spoil and secured 	5	4	Low	PM, SP, LH
	40	Discovery of artefacts or items of cultural, historical interest	3	2	Medium		UEA to include, Stop Work and report process for any unexpected finds, heritage items (non-aboriginal and aboriginal). TfNSW heritage consultant to be advised in line with immediate reporting	4	3	Low	PM and HSEQ
	41	Discovery of contamination	3	2	Medium		Stop work and ascertain contamination through investigation and testing as required. Waste disposed of according to identified classification and legislative, TfNSW project requirements.	4	3	Low	PM and HSEQ
	42	Specification not finalised	3	3	Medium		Spec to be reviewed and finalised prior to mobilisation	4	4	Low	OM and PM
	43	Supply of tooling and equipment	3	3	Medium		UEA to seek RFQ with suitable suppliers	4	4	Low	OM and PM
	44	Provision of vehicles for Contract	3	2	Medium		Identify fleet requirements and procure fleet to suit delivery schedule	4	4	Low	OM and PM
	45	Fit out of fleet, (Fit for purpose plant)	3	3	Medium		UEA workshop to fit out fleet as per agreed fit out layout TfNSW plant specific requirements - specific to this contract, Only fully-automatic quick hitches are approved for use on excavators. Plant must be compliant to Australian Standards as designed and applicable Plant to contain OEM manuals and have service history available upon request	4	5	Low	OM and PM
	46	Finalisation of Delivery Strategy	3	3	Medium		UEA to submit Delivery schedule to Client prior to commencement to ensure that both parties have communicated expectations and expectations are met	4	4	Low	OM and PM
	47	Finalisation of Drawings/Maps	3	2	Medium		Document control of versioning for in Design documents	4	4	Low	OM and PM

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P R O J E C	48	Extended Journey Planning - Driver Fatigue	2	2	High		Leadership, support and supervision of fatigue increased tasks / rosters Training and awareness through inductions, toolbox's and alerts Auditing and reporting of fatigue related events Logbooks for applicable Heavy Vehicle regulated plant Specific Fatigue Management Plan for high risk staff/roles	3	4	Low	PM and HSEQ
	49	Injury to worker entering vehicle / plant	2	1	High		<ul style="list-style-type: none"> Worker to enter vehicle in a controlled manner, as per manufacturers recommendations Utilise hand rails where available Ensure seat positioning is known prior to vehicle entry 	5	2	Low	PM, SP, LH
	50	Vehicle or plant operational failure	2	2	High		<ul style="list-style-type: none"> Perform specific pre-start check on each light vehicle and plant as per UEA induction Vehicle maintenance to be completed as per manufacturers specifications and in date Each item on pre-start to be diligently checked 	5	4	Low	PM, SP, LH
	51	Do not know how to perform vehicle or plant pre-start inspection accurately	2	1	High		<ul style="list-style-type: none"> Do not drive vehicle or plant. Contact UEA Fleet Manager immediately 	5	4	Low	PM, SP, LH, FM
	52	Do not know how to operate vehicle or plant correctly	3	1	High		<ul style="list-style-type: none"> Driver to possess applicable RMS licence to drive nominated vehicle Do not drive vehicle or Plant. Contact UEA Fleet Manager immediately 	5	2	Low	PM, SP, LH, FM
	53	Workers not adequately authorised, experienced or qualified to carry the work out	3	1	High		<ul style="list-style-type: none"> *UEA to conduct a gap analysis in training requirements that individuals have to the training matrix. Coordinate training with external RTO. 	4	3	Low	OM and PM
	54	Plant/vehicle log book not completed	1	1	High		<ul style="list-style-type: none"> During pre-start, drivers are to accurately complete company provided plant/vehicle logbooks to record driver usage Heavy Vehicle operators to complete personal issue RMS Heavy Vehicle Drivers Logbook if trip exceeds 100km radius from UEA depot 	5	4	Low	OM and PM
	55	Impact with other road user	1	1	High		<ul style="list-style-type: none"> Drivers to be free of fatigue and be of suitable wellness to drive on public roadway RMS road rules to be obeyed at all times Courteous driving techniques to be displayed in all company vehicles Adequate distance from vehicle in front to be maintained relevant to speed being travelled at Drivers to adapt driving speed and style to safely mirror the driving conditions 	4	3	Low	PM, SP, LH, HSEQ
	56	Infringement notice from police	3	2	Medium		<ul style="list-style-type: none"> Drivers are responsible for the operation of company provided vehicles at all times, therefore shall be responsible for all infringement notices received that are a result of the driver 	5	5	Low	PM, SP, LH

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T M O B I L I S A T I O N	57	Hand held device cause incident whilst driving a vehicle	1	1	High		<ul style="list-style-type: none"> Driver to only answer telephone by way of approved hands free device in vehicle Driver not to hold hand held device while driving Reading phone screen whilst driving is strictly prohibited 	5	5	Low	PM, SP, LH
	58	Failure of toll pass when entering/exiting a motorway	4	3	Low		<ul style="list-style-type: none"> Driver to contact Project Administrator for account verification 	5	5	Low	FM
	59	Vehicle failure during transit	2	2	High		<ul style="list-style-type: none"> Ensure that all required vehicle fluids, fuels and greases are checked prior to embarking on journey Driver to identify a safe place to pull the vehicle to the side of the road and place the hazard lights on Driver to contact Fleet Manager 	5	3	Low	SP, LH, FM
	60	Vehicle/EWP doors or storage doors left open	2	2	High		<ul style="list-style-type: none"> 360 degree walk around prior to movement mandatory to ensure all doors are secured prior to transit 	5	4	Low	SP, LH
	61	Traffic delay on route to worksite	4	3	Low		<ul style="list-style-type: none"> Driver to remain calm and not become frustrated impairing driving ability If possible, an alternate route to be taken Driver to contact line manager and notify of delay 	5	5	Low	PM, SP, LH
	62	Impact whilst performing reversing manoeuvre	4	2	Medium		<ul style="list-style-type: none"> Spotter to be used at all times when reversing at the depot 360 degree walk around prior to movement of vehicle mandatory to ensure proximity of surrounds is known 	5	4	Low	PM, SP, LH
	63	Driver is unable to find worksite or gets lost	4	3	Low		<ul style="list-style-type: none"> Driver to review route and worksite location prior to journey If driver becomes lost, find a safe place to pull the vehicle to the side of the road and calmly review the route to the worksite 	5	5	Low	SP, LH
	64	Cause public disturbance	3	2	Medium		<ul style="list-style-type: none"> Vehicle to be operated in a manner that is not intrusive (by sight or sound) to the general public Driver to openly listen to any member of the public's concern and enact an agreed remedy to facilitate a diplomatic outcome 	4	3	Low	SP, LH
	65	Irate member of the public	3	2	Medium		<ul style="list-style-type: none"> Driver to remain calm and not antagonise or inflame any situation Driver to calmly address member of the public's concern and seek an amicable solution If risk to driver persists, contact 000 and report the incident 	4	3	Low	SP, LH
	66	Unable to obtain suitable parking position	4	3	Low		<ul style="list-style-type: none"> Prior planning of work day required by Project Coordinator Traffic management to be utilised to ensure worksite area is free to park vehicles prior to vehicle arrival 	5	3	Low	SP, LH
67	Blocked driveway/access way	4	3	Low		<ul style="list-style-type: none"> Drivers not to park across or obstruct a private driveway at any time Respect for driveway owner to be shown at all times 	5	5	Low	SP, LH	

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	68	Receive parking infringement	4	3	Low		<ul style="list-style-type: none"> Driver is responsible to park vehicle in a legal and responsible manner Driver shall be responsible for all parking infringements received for the vehicle whilst under the drivers control 	5	5	Low	SP, LH
	69	Vehicle is broken into or stolen	4	3	Low		<ul style="list-style-type: none"> Vehicles to remain locked at the worksite Keys to remain with the driver, not the vehicle when parked at the worksite Theft of any kind to be reported to the Fleet Manager immediately 	5	3	Low	SP, LH
	70	Impact from passing road user	2	2	High		<ul style="list-style-type: none"> Vehicle to be parked in a legal and unobtrusive manner that does not impede the through fare of traffic at any time 	4	3	Low	PM, SP, LH
	71	Impact with parked vehicles/trees or other apparatus	3	2	Medium		<ul style="list-style-type: none"> If proximity to other vehicles is not known, a spotter shall be used Adequate turning radius to be allowed for Clutch and accelerator to be gently applied pursuant to controlled, slow movement 	5	4	Low	SP, LH
	72	Vehicle/EWP will not re-start	4	3	Low		<ul style="list-style-type: none"> Second attempt required (do not drain the battery) Contact Fleet Manager immediately 	5	5	Low	SP, LH, FM
	73	Daily work scope unknown	3	2	Medium		<ul style="list-style-type: none"> Prior to leaving, ensure planned work day scope is fully understood – including roles and responsibilities Contact Supervisor for clarification 	5	2	Low	PM, SP, LH
	74	Establish Notifications requirements, processes and implement	3	2	Medium		UEA to adhere to NECF legislation and Network Authority planned interruption policy.	4	4	Low	OM and PM
	75	Incorrect or inadequate workforce planning	2	1	High		<ul style="list-style-type: none"> Work and task to be planned prior to site arrival Number of workers, along with a qualification assessment to be pre-identified prior to site arrival. 	5	2	Low	OM and PM
	76	Failure to have Dial Before Your Dig plans	1	1	High		<ul style="list-style-type: none"> Ensure that DBYD plans are correct and in date Ensure that Permit to Disturb is complete and verifies Dial Before You Dig plans 	5	4	Low	OM and PM
	77	Incorrect services located	1	1	High		<ul style="list-style-type: none"> Ensure that services have been located by an authorised services locator prior to arrival at the work site 	5	4	Low	PM, SP, LH
	78	Failure to notify client and/or authority	2	2	High		<ul style="list-style-type: none"> Notification and confirmation with client and/or authority to be undertaken to ensure that task is verified to proceed Contractual milestones to be monitored 	5	4	Low	PM, SP
	79	Incorrect task level planning	1	1	High		<ul style="list-style-type: none"> Hazard Assessment Check sheet (HAC) to be performed by all members of the work party Worksite coordinator shall verify that there are sufficient, suitably competent/qualified employees to complete the work safely Toolbox Talk to be held reviewing required SWMS and risk assessment of the worksite, along with network access permits and work methods/scope/sequence by worksite coordinator 	4	3	Low	SP, LH

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	80	Slips, Trips and Falls	4	1	Medium		<ul style="list-style-type: none"> Check area for sources of slips, trips and falls and identify these on the HAC Care to be taken when exiting plant & vehicles by using handrails 	5	2	Low	PM, SP, LH
	81	Electrocution	1	1	High		<ul style="list-style-type: none"> Safe working distances to be maintained when parking, unloading or arriving at site 	4	3	Low	PM, SP, LH
	82	Vehicle rollover	3	2	Medium		<ul style="list-style-type: none"> Plant pre-start checks are to be performed on all vehicles, plant & equipment Park vehicles on even stable ground 	4	3	Low	SP, LH
	83	Parking on footpath/ council strip cause damage to turf or footpath	4	2	Medium		<ul style="list-style-type: none"> Park only on designated street parking or off road where no hazards to environment Dilapidation report to be performed prior to entering the nominated worksite Slow speeds when driving on worksite When wet, safe entry/exit point to be nominated 	5	4	Low	PM, SP, LH
	84	Incorrect civil materials	1	1	High		<ul style="list-style-type: none"> No inferior materials to be used at the work site Ensure that materials are listed on the relevant approved products list 	5	2	Low	PM, SP, LH
	85	Staff not competent or authorised	2	1	High		<ul style="list-style-type: none"> The training of nominated staff will be verified for suitability to the scope tasks and a Team Leader nominated. Ensure that staff programmed to perform the works have the correct level and type of authorisation to perform the nominated task 	5	4	Low	OM, PM, HSEQ
	86	Unclear guidance on how to perform a task and hold points within project	3	2	Medium		Develop collaboratively with Client a work instruction for Scope of Work detailing steps to follow for each task and guidance on hold points within a task.	4	4	Low	OM and PM
	87	Loading / unloading vehicle - Incorrect materials loaded	4	3	Low		<ul style="list-style-type: none"> Materials to be verified by daily run sheet/bill of materials Storeman to verify materials as suitable for loading onto vehicle 	5	5	Low	PM, SP, LH
	88	Loading / unloading vehicle - Incorrect securing of load causing loss of material	1	1	High		<ul style="list-style-type: none"> Slings, chains and straps to be inspected prior to use Loads to be positioned toward "centre of vehicle" where practicable All securing apparatus to be free of damage, within test date/s and be rated for load to be secured Ensure that the load does not exceed the GVM of the vehicle/EWP Loads to be secured as per RMS securing of loads requirements: http://www.ntc.gov.au/heavy-vehicles/safety/load-restraint-guide/ 	5	4	Low	PM, SP, LH
	89	Impact with other parked vehicles or plant	3	2	Medium		<ul style="list-style-type: none"> If proximity to other vehicles is not known, a spotter shall be used Adequate turning radius to be allowed for Clutch and accelerator to be gently applied pursuant to controlled, slow movement 	5	4	Low	PM, SP, LH
	90	Failure to have correct permits of work	3	2	Medium		<ul style="list-style-type: none"> Obtain Council or RTA Road Opening Permit and Road Occupancy License (as required). 	5	2	Low	PM, SP, LH

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	91	Incorrect or Unauthorised plant & equipment	3	1	High		<ul style="list-style-type: none"> Plant and equipment required for task to be identified, verified and checked for operation. UEA Plant and Equipment onboarding process to be completed prior to arrival 	5	2	Low	PM, SP, LH,FM
	92	Traffic management plan does not suit daily work requirements/ Traffic control scope not clear	4	3	Low		<ul style="list-style-type: none"> Traffic Control Plan to be prepared and implemented by an accredited RMS Travic Control service provider. Team Leader to review traffic management plan with traffic management leader and approve at the start of the day If unsuitable, Team Leader to discuss correct requirement with Traffic Management Leader to have amendment by red card holder. 	5	3	Low	SP, LH
	93	Struck by injury	1	1	High		<ul style="list-style-type: none"> Work area to be segregated from public with barriers, fencing or safety observers Witches hats to be placed around plant to identify work zone Only spotter allowed inside the work zone Spotter can only enter excavation after positive communication with operator has ceased digging operation Spotter to maintain exclusion zone from boom in motion. Exclusion zone to be recorded on HAC Worker to survey traffic movement at all times Worker to face oncoming traffic with visual at all times No mobile phone use allowed for site set up. 	5	2	Low	SP, LH
	94	Incorrect signage placed around worksite	3	2	Medium		<ul style="list-style-type: none"> Team Leader to discuss correct requirement with Traffic Management Leader as per work day plan. 	5	2	Low	SP, LH
	95	Worksite is not clearly defined	3	2	Medium		<ul style="list-style-type: none"> Team Leader to discuss correct requirement with Traffic Management Leader as per work day plan. 	5	2	Low	SP, LH
	96	Failure to control traffic and/or pedestrians	1	2	High		<ul style="list-style-type: none"> Refer to Traffic Management contractor SWMS UEA reserves the right to request changes to traffic management plans/set ups in order to preserve site safety 	4	3	Low	SP, LH
	97	Traffic management contractors do not adequately control traffic for the worksite	1	2	High		<ul style="list-style-type: none"> Traffic to be controlled in accordance to Manual Traffic Control Team Leader to constantly assess traffic control effectiveness throughout the day and communicate with traffic management leader. Traffic management plan to be implemented effectively at all times. Team Leader to identify any deficiencies in traffic control at the worksite to the traffic management leader. Any traffic management contractor not adequately performing duties shall be addressed via the traffic management leader. 	5	2	Low	PM, SP, LH

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C O N S T R U C T I O N	98	Irate public due to traffic frustrations	3	2	Medium		<ul style="list-style-type: none"> Team Leader to calmly facilitate discussions to resolve any issues raised by public. TMP designed to minimise inconvenience Worksite is to immediately de-mobilise if there is threat to worker Team Leader shall contact 000 in extreme cases or threat to worker/work party Immediate notification and tracking of interactions 	4	3	Low	SP, LH
	99	Waste left onsite causing slip, trip, fall hazard to community	1	2	High		<ul style="list-style-type: none"> All waste to be removed at the completion of the work shift. 	5	2	Low	SP, LH, FM
	100	Damage to customer or public property causing injury to community	1	2	High		<ul style="list-style-type: none"> Immediate notification to TfNSW and investigation commenced 	5	2	Low	SP, LH, FM
	101	Traffic impact (site)	1	1	High		<ul style="list-style-type: none"> Reversing quackers and flashing beacons to be fitted to all mobile plant Unloading must be conducted in an area where there is no risk of vehicular accidents Vehicles and plant to be parked in a pre-designated work area 	5	2	Low	SP, LH
	102	Danger to pedestrians/public	2	1	High		<ul style="list-style-type: none"> Ensure no danger is presented to general public and use a spotter wherever possible Arrive with caution to work site, observing objects and persons until parked Signs and barriers to be erected to segregate work area Risk assessment to determine whether a spotter/safety observer is required to control public ingress/egress/pedestrians Work site area to be identified with witches hats and signage to be set out 	5	2	Low	PM, SP, LH
	103	Injury from saw cutter or demo saw	2	1	High		<ul style="list-style-type: none"> Pre-start inspection to be performed on concrete cutting equipment Competent workers to use cutting equipment only Hearing protection and full face shield to be worn for this task Persons and body parts to remain clear of cutting blades at all times PPE/C to be in line with manufacturers requirements Blades used only as per Manufacturers specs 	5	4	Low	SP, LH

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	104	Services strike	1	1	High		<ul style="list-style-type: none"> DBYD and Permit to Disturb is to be reviewed and signed onto by all persons involved with nominated excavation activity. Include also DSS (Detailed site survey) Sydney trains. Exclusion zone of 500mm is to be maintained for all known services until positive identification is achieved Within exclusion zone, only non-destructive or hand digging techniques are permitted No picks or bars are to be driven into the ground, Careful shovelling or non-destructive techniques are to be used to expose/positively identify services Spotter to be dedicated to spotting task No mobile phone use within the work area 	5	2	Low	SP, LH
	105	Engulfment in trench, pit or open point	1	1	High		<ul style="list-style-type: none"> Excavated material to be placed >1m outside of the zone of influence Spotter to inspect trench/pit/open point walls for causes and signs for collapse If there is risk of collapse, work party to install support system Water to be removed from trench and walls to be inspected immediately after 	5	2	Low	SP, LH
	106	Trench/pit wall collapse	1	2	High		<ul style="list-style-type: none"> Shoring will be utilised where trench depths exceed 1.5m depth Trench/pit walls that have undergone recent rain, are of soft material or have deteriorated since initial excavation shall have a specific risk assessment performed 	5	2	Low	SP, LH
	107	Fumes/gas intoxication	1	1	High		<ul style="list-style-type: none"> Workers to lower air and gas monitor in hole and determine that the oxygen content in air of between 19.5% – 23.5% Workers to assess risk of contaminants, for example: airborne gases, vapours and dusts, that may cause injury from fire or explosion Further steps to be undertaken if levels are exceeded. 	5	2	Low	SP, LH
	108	Engulfment of worker	1	2	High		<ul style="list-style-type: none"> Workers to assess that there is no risk of ingress of any liquid or solid that will cut off a workers air supply – including an assessment of excavated pit/trench walls 	5	3	Low	SP, LH
	109	Rescue of worker	1	1	High		<ul style="list-style-type: none"> Workers are to identify and record on the HAC (risk assessment) a rescue plan for any worker working in an excavated pit or trench NOT deemed a confined space Rescue to be performed as per the process outlined in this SWMS 	5	3	Low	SP, LH
	110	Damage to exposed, adjacent services	1	2	High		<ul style="list-style-type: none"> Workers are not to stand on or disturb adjacent or exposed services in any excavation Mechanical protection may be required in order to protect adjacent services from impact or damage 	5	2	Low	SP, LH

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	111	Injury from submerged object	1	2	High		<ul style="list-style-type: none"> Water shall be reasonably pumped out of pits and excavations prior to entry Gum boots must be worn when entering submerged pits and excavations 	5	4	Low	SP, LH
	112	Access and Egress from trenching	3	2	Medium		<ul style="list-style-type: none"> Where excavations require it, access and egress into trenches to be considered when designing/excavating Where ladders are required they are to be spaced apart at intervals that allow for quick access and egress in an emergency. (recommended no more than 9 meters apart) Ladders must be adequately secured to prevent movement. 	5	2	Low	SP, LH
	113	Edge protection / falls	2	1	High		<ul style="list-style-type: none"> If unattended, barricading to be in place around excavations where there is a danger of falls of personnel over 1.5m Excavations to be fenced, backfilled or covered to prevent accidental falls outside normal work areas High risk areas such as trafficable walkways (people) must have barricading that takes into account the safe distance from the edge of an excavation to avoid falling through the barricading and into trenching. 	5	3	Low	SP, LH
	114	Zone of influence	1	1	High		<ul style="list-style-type: none"> Excavation to be done as per design taking into account the following factors * Existing and changing ground conditions; * The loads and types of ground or soil conditions; * Static loads near the excavation, e.g. buildings, spoil stock piles; * Dynamic loads near excavation, e.g. traffic and excavation equipment; * Ground vibration, e.g. heavy traffic, mobile plant, trains, pile driving etc. * Undermining of adjacent or nearby roads, footpaths, buildings, structures etc.; * Water stored in the ground near or close to the work area; * Location of utility services 	5	2	Low	SP, LH
	115	Lighting (Site and trenching)	2	1	High		<ul style="list-style-type: none"> Lighting plants to be utilised in poor lighting areas Mobile plant to have sufficient working lights for tasks being undertaken Cap lamps to be utilised in situations where lighting plants, fixed lighting and mobile plant is inefficient for personnel access and work tasks. 	5	4	Low	SP, LH

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	116	Exposure to chemicals	3	2	Medium		MSDS requirements to be met (minimum) SDS available to all personnel Ventilation requirements to be read and followed as indicated on the SDS Material for Spill Clean-up to be stored on site Hazardous materials chemicals to be stored separately as required by SDS PPE worn as stated on the products SDS SDS registers are reviewed and updated on a regular basis	5	4	Low	SP, LH
	117	UEA workers not following correct Quality, Env or Safety processes	3	2	Medium		*UEA PM, Supervisors, Crew leaders and HSEQ team to conduct onsite auditing of work practices and behaviours. Regular analysis of data to identify trending of individuals or focus areas. *UEA to monitoring worker compliance	4	3	Low	PM and HSEQ
	118	Workers not able to complete works correctly due to documents not being created or available	3	3	Medium		*UEA to ensure that all documents have version control and ensure that a document register is created to ensure correct documents are in circulation	4	4	Low	PM and HSEQ
	119	UEA workers not completing work as per Work Order	3	2	Medium		Work order to provided to crews to complete work as per Work Order. UEA Supervisor to inspect 10% completed jobs. UEA to train workers in the process of completing variations to the Work Order	4	3	Low	OM and PM
	120	Data collection	3	3	Medium		Client and UEA to determine the approved method of capturing and receiving data	4	4	Low	OM and PM
	121	Inadequate or un safe access to site	3	1	High		Requires inspection prior to installation and testing. Notification to customers to provide adequate access - include in specification. Reschedule works once access is provided to site. This should be included in a scoping document for UEA Supervisor/Scoper/Scheduler	4	3	Low	OM and PM
	122	Traffic - Congested streets due to overwork in single area	3	2	Medium		UEA to plan works with minimal disruption to normal traffic control, site visit required during UEA pre scoping to identify high traffic areas. Include scoping in UEA Supervisors roles and responsibilities	4	3	Low	PM.
	123	Site Congestion / access	3	2	Medium		UEA / Client to meet regularly to assess site conditions and access. EOT notifications tabled for non UEA delays.	4	3	Low	OM and PM
	124	Delay in materials supplied by suppliers	3	2	Medium		*Seek interest from industry suppliers and develop relationships with several suppliers to ensure that UEA has a back up for any materials. *UEA to create a forecast for stock orders based on best case delivery for the month	4	3	Low	OM and PM
	125	Scope creep - Site delays	3	2	Medium		UEA / Client to meet regularly to assess site program and service availability. EOT notifications tabled for non UEA delays.	4	3	Low	OM and PM

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S A F E T Y	126	UEA workers not following correct Quality, Env or Safety processes	3	2	Medium		*UEA PM, Supervisors, Crew leaders and HSEQ team to conduct onsite auditing of work practices and behaviours. Regular analysis of data to identify trending of individuals or focus areas. *UEA to monitoring worker compliance *Notice issued where worker are found to be non compliant to gain formal commitment from the workers to make improvements	4	4	Low	PM and HSEQ
	127	Plant and equipment not compliant to carry out work	3	2	Medium		*Workshop manager to provide monthly report on fleet servicing and testing. *Supervisor to be completing Vehicle audits *PM to monitor in monthly reporting	4	3	Low	PM and HSEQ
	128	Excessive weather conditions (hot or wet or windy) preventing construction works	3	1	High		*Monitor weather conditions and relocate resources where possible to other areas of the business for rain days. *Fatigue management during extreme weather condition as per the WHS Management Plan	4	3	Low	PM and HSEQ
	129	Personnel fit for work	3	1	High		Pre-employment medical and drug screening undertaken to identify risk profiles of employees Monitoring and reporting of at risk employees/tasks and events where identified. i.e. Exposure to asbestos, lead etc. UEA to conduct random drug and Alcohol testing. Fit for Work Policy. UEA to complete behavioural observations	4	3	Low	PM and HSEQ
S Y S T E M S	130	Inadequate document handling system	3	3	Medium		UEA mentoring and induction through document handling system etc. Data access authorisation provided. Desktop auditing of job files	4	4	Low	PM and HSEQ
	131	Failure to comply with SWMS	1	1	High		. This SWMS must be reviewed in conjunction with the project "job pack" containing all project specific information	5	4	Low	PM and HSEQ
F A C T O R	132	Potential for fatigue related errors	3	2	Medium		Ensure adequate controls in place, ensure contractor has adequate process and trades. Ongoing monitoring process through observations KPI Timesheet review and monitoring	4	3	Low	PM and HSEQ
	133	Complacency	3	2	Medium		Ensure that Contractor has regular safety updates with staff e.g. toolbox talks and safety days etc. Peer monitoring and observations New employee mentoring	4	3	Low	PM and HSEQ
	134	Poor customer relations	3	3	Medium		Assessment and provision of adequate Stakeholder management and appropriate people only are to be involved with the customer interface Stakeholder, Customer register.	4	4	Low	PM and HSEQ

Risk Register & Management Plan

Project: TfNSW

Date: 3/03/2017

printed: (date revise)

Key:

Likelihood: 1 = Almost Certain, 2 = Very Likely, 3 = Moderate, 4 = Unlikely, 5 = Rare

Consequence: 1 = Extreme, 2 = Significant, 3 = Moderate, 4 = Minimal, 4 = Insignificant

Risk Type: C = Cost, T = Time, F = Fitness for purpose, O = other (In order of importance)

Risk Authority

G.M and/or O.M

P.M and/or O.M and/or HSEQ.M

P.M

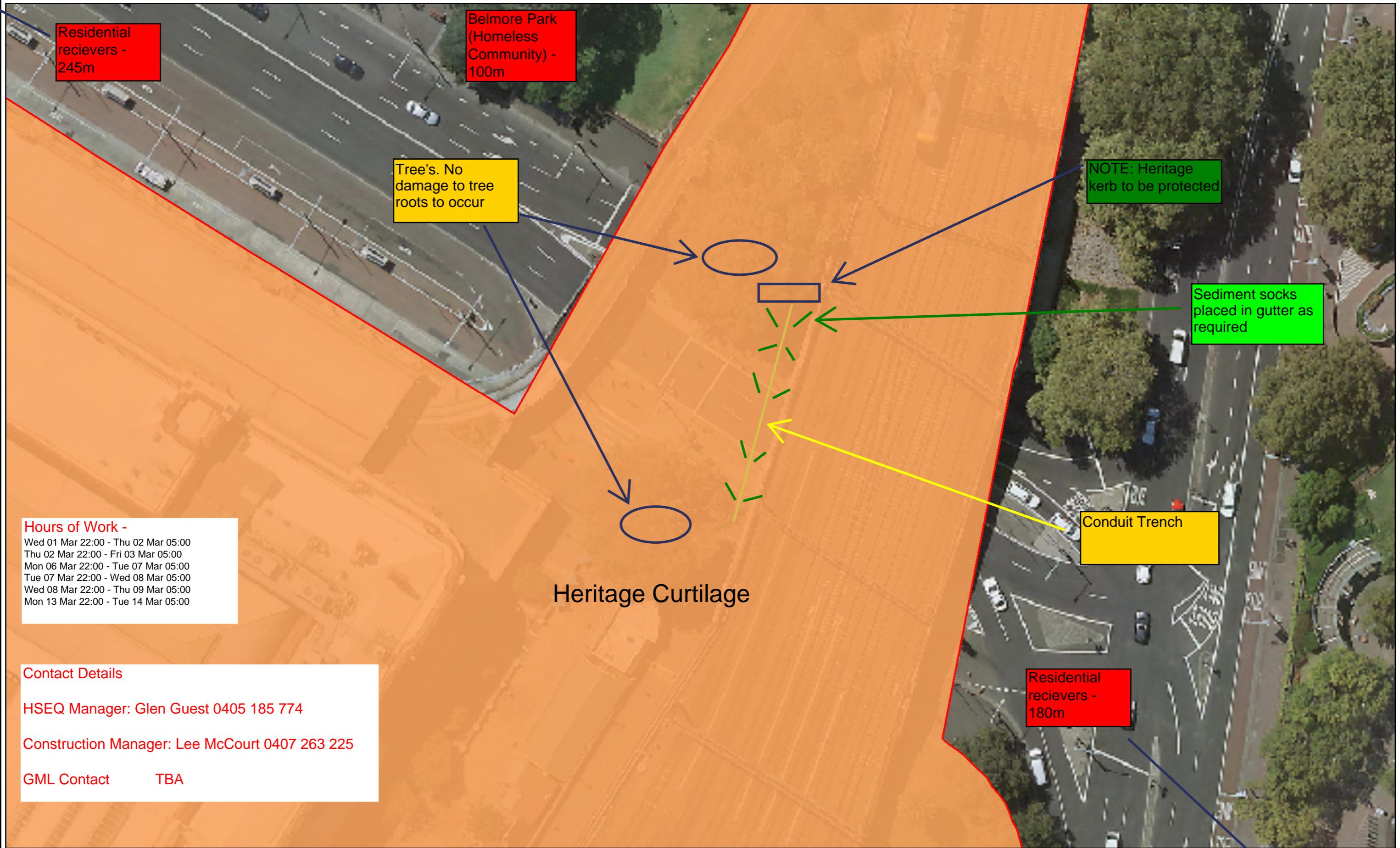
(1*)

High 2 - 4

Medium 5 - 6

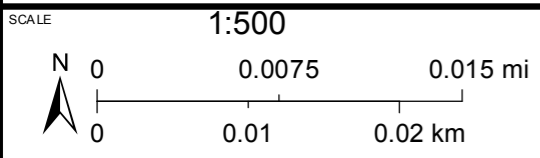
Low 7 - 10

Risk Area	Risk No.	Risk Description	Likelihood	Consequence	Risk Total (1*)	Risk Type	Action / Control	Likelihood	Consequence	Residual Risk Total (1*)	Action Owner
INDUSTRIA	135	Industrial Disputes caused by performance or engagement of contractor	3	2	Medium		Regular consultation & communications with staff and client Third party IR service consultancy advice Dispute resolution process and designated advocates	4	3	Low	OM and PM
	136	Supplier Industrial issues	3	2	Medium		Ongoing review and assessment of supplier performance. Industry media monitoring to identify suspected supply disruptions Regular consultation with industry players on supplier movements	4	3	Low	OM and PM



Hours of Work -
Wed 01 Mar 22:00 - Thu 02 Mar 05:00
Thu 02 Mar 22:00 - Fri 03 Mar 05:00
Mon 06 Mar 22:00 - Tue 07 Mar 05:00
Tue 07 Mar 22:00 - Wed 08 Mar 05:00
Wed 08 Mar 22:00 - Thu 09 Mar 05:00
Mon 13 Mar 22:00 - Tue 14 Mar 05:00

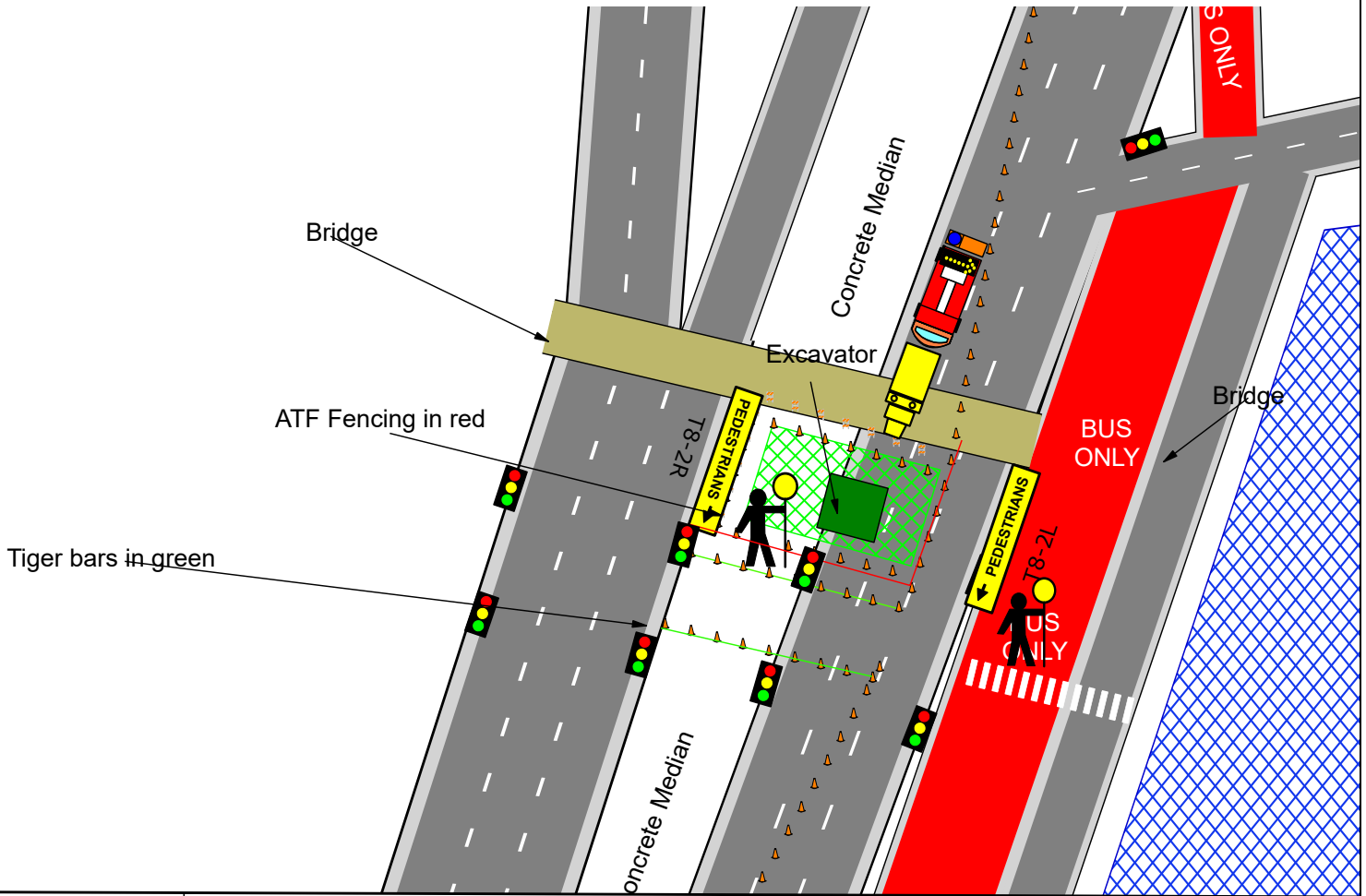
Contact Details
HSEQ Manager: Glen Guest 0405 185 774
Construction Manager: Lee McCourt 0407 263 225
GML Contact TBA



February 24, 2017

Appendix 2: Cover Page

Environmental Management Documentation.



Date: 17.02.2017 **Author:** Tanya Toland #010314 **Project:** UEA

On Behalf Of: UEA **Subject Rd:** Eddy Avenue

Comments:

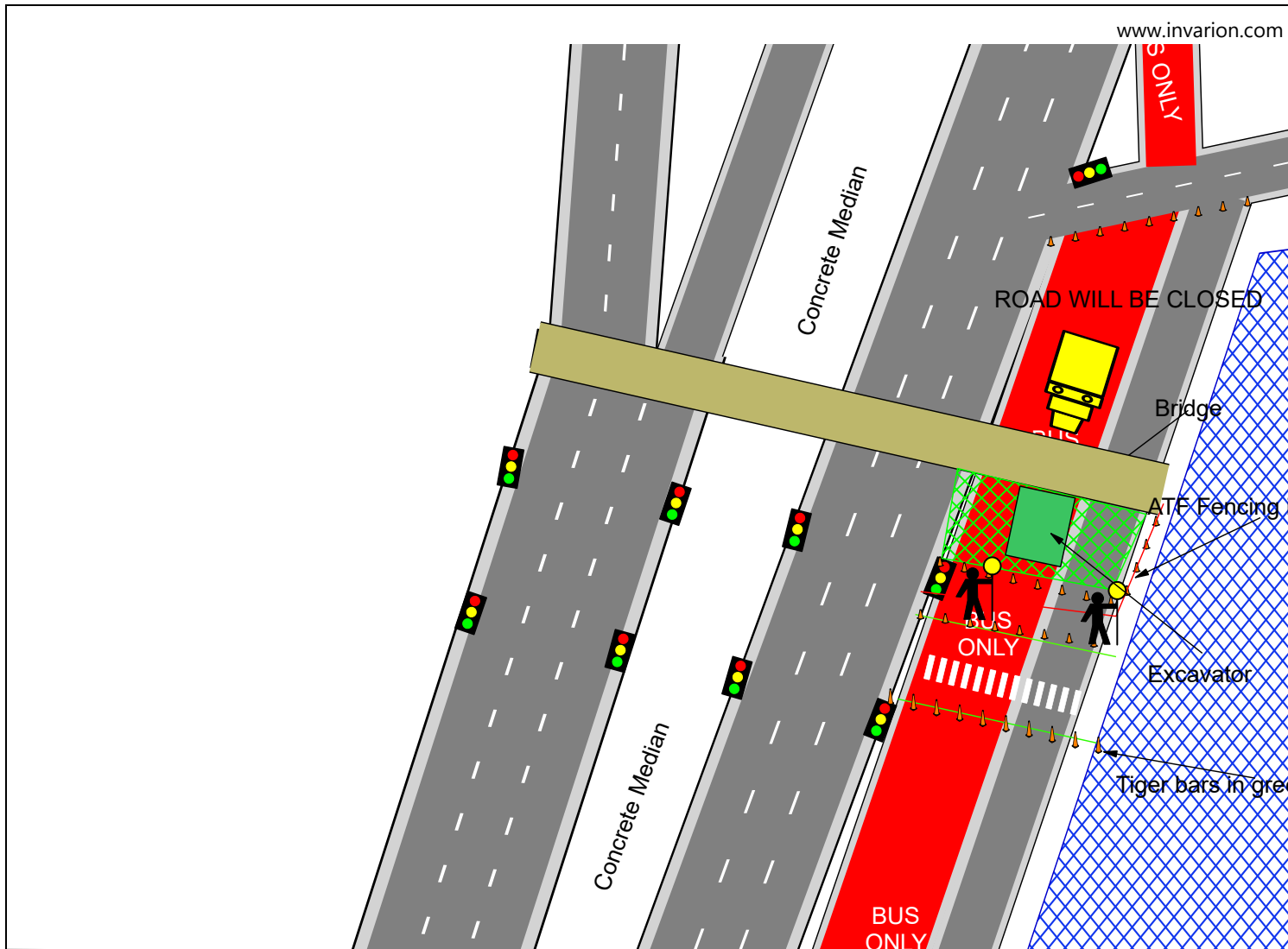
UBD REF: 255 H12

Activity: Road Crossing on behalf of UEA

- * Pedestrian management Plan
- * To be used in conjunction with the TCP
- * TC to ensure pedestrians obey pedestrian walkway light & ensure they cross the road safely
- * Tiger bars used around work area
- * ATF fencing to secure worksite
- * TMA to act as hard barrier
- * Excavator to stay within fencing
- * Resident and commercial access to be maintained at all times
- * AS1742.3 - 2009 "D"
- * Pedestrian access to be maintained at all times
- * Site must be accessed by competent client personnel prior to implementing TCP
- * TCP to be approved by client site engineer

* Diagram not drawn to scale





Date: 17.02.2017 **Author:** Tanya Toland #010314 **Project:** UEA
On Behalf Of: UEA **Subject Rd:** Eddy Avenue

Comments:

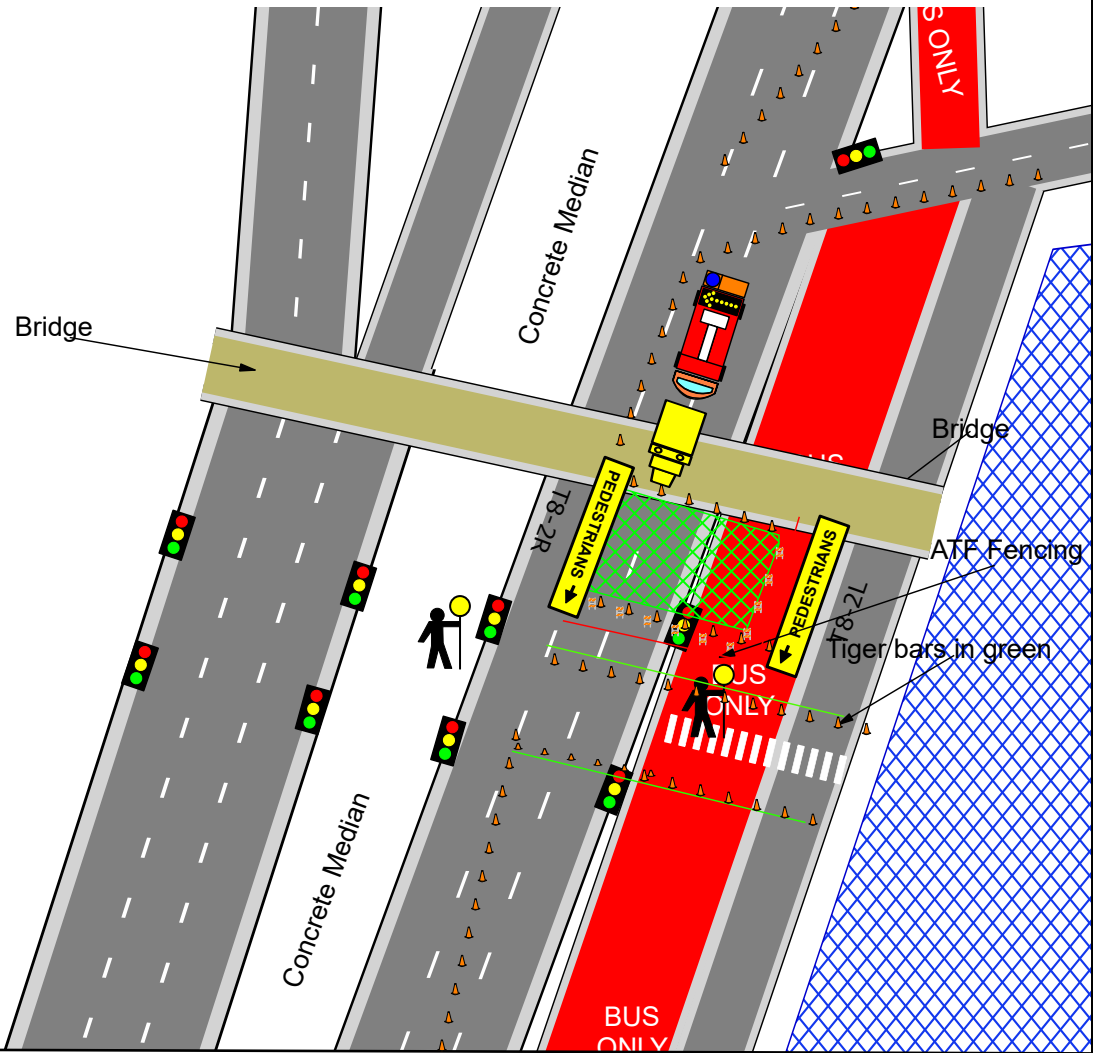
UBD REF: 255 H12

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On Behalf Of: UEA **Subject Rd:** Eddy Avenue

Comments:

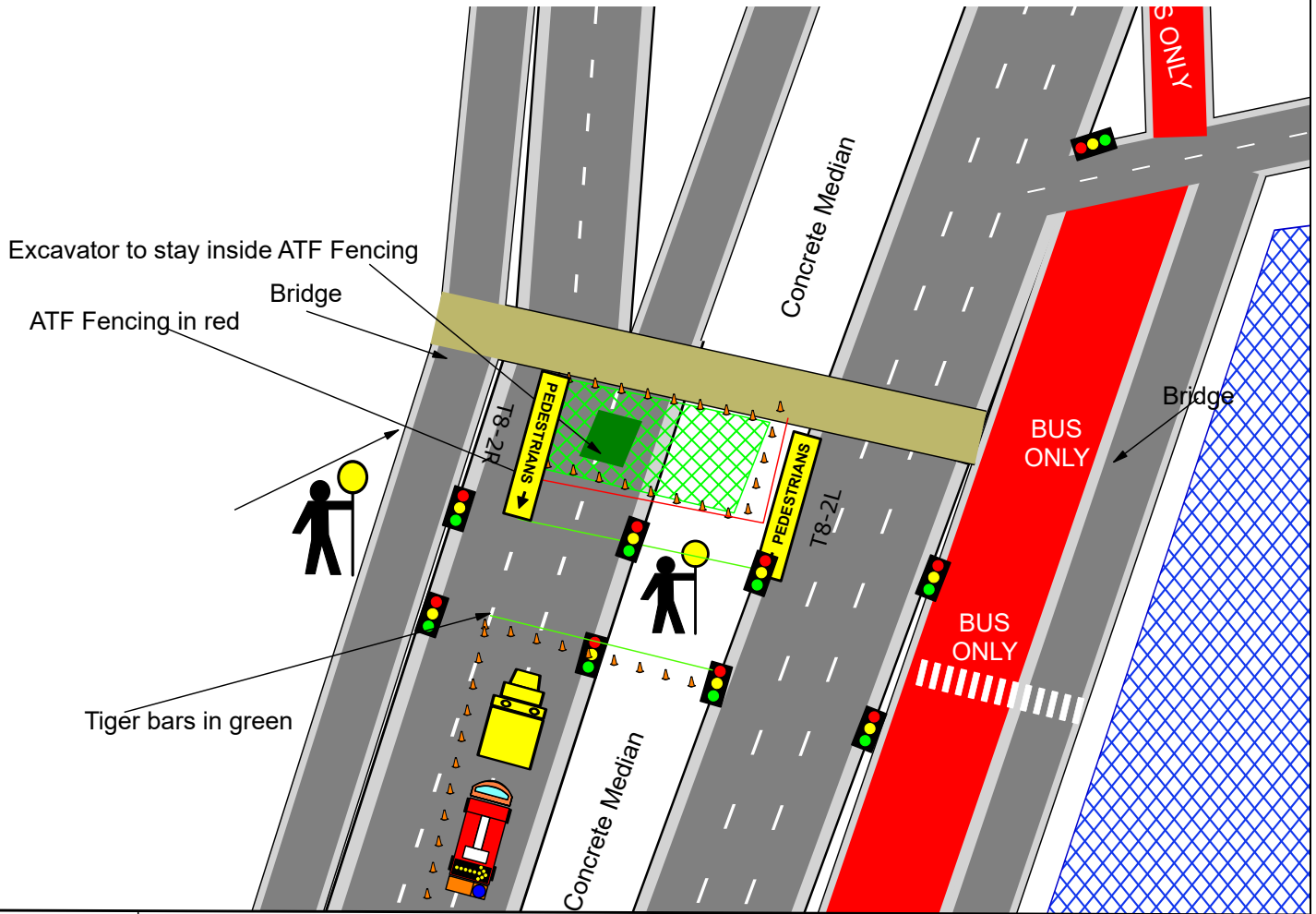
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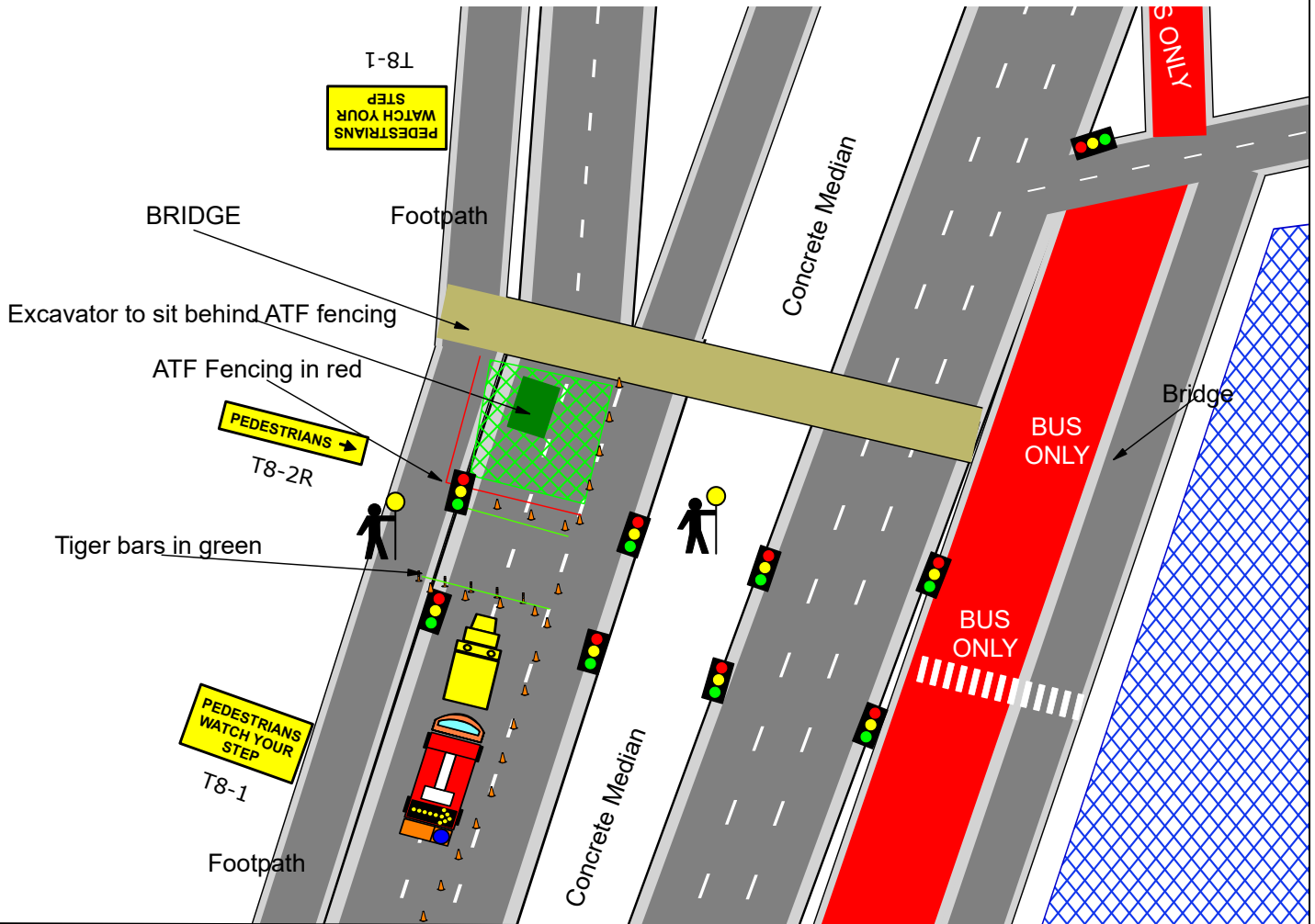
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Date: 17.02.2017 **Author:** Tanya Toland #010314 **Project:** UEA
On Behalf Of: UEA **Subject Rd:** Eddy Avenue

Comments:

UBD REF: 255 H12

Activity: Road Crossing on behalf of UEA

* To be used in conjunction with TCP

* Pedestrian management Plan

* Pedestrians will have 2 meters on footpath the ATF will run from the archway.

* Pedestrian walkway will not be affected

* TC to ensure pedestrians obey pedestrian walkway light & ensure they cross the road safely

* Tiger bars used around work area

* ATF fencing to secure worksite

* TMA to act as hard barrier

* Excavator to stay within fencing

* Resident and commercial access to be maintained at all times

* AS1742.3 - 2009 "D"

* Pedestrian access to be maintained at all times

* Site must be accessed by competent client personnel prior to implementing TCP

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* Diagram not drawn to scale



ROAD OCCUPANCY LICENCE

LICENCE NO : 716380

TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM



You must notify the TMC on 1800 679 782 before occupying the road and immediately after vacating the road. This licence is for the occupation of road space only. This is not an approval to modify or impact existing RMS Road Infrastructure including signals, signs, the road and kerb.

NON DEVELOPMENT - INVESTIGATION

Project: Not Applicable
This Activity : Investigation work on behalf of UEA

LOCATION

Subject Road: ELIZABETH ST-BUS RTL
From: ALBION ST, SURRY HILLS
To: FOVEAUX ST, HAYMARKET
Council: SYDNEY

LICENSEE

Organisation: Australian Utilities Management
Ref No:
Name: Tanya Toland
Phone: 0419292351

ONSITE CONTACT

Name: Tanya Toland
Phone: 0419292351

TRAFFIC MANAGEMENT

Flow Management: Standard Lane Merge
Closure Type: 1 lane of 2
Closure Lane(s): Lane 3
Direction(s): Southbound

LICENCE DURATION

From: 27-Feb-2017
To: 14-Mar-2017

LICENCE CONDITIONS

- 1 THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENT'S TRAFFIC CONTROL PLAN. PLEASE NOTE WORKCOVER REQUIRES THAT TRAFFIC CONTROL PLANS COMPLY WITH AS1742.3
- 2 ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDICTION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.
- 3 SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY THE RMS'S ASSETS MANAGEMENT BRANCH.
- 4 NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING
- 5 WORKS WITH ROL 529103***
- 6 NO WORKS ON THE 9 AND 18 AND 19 MAR DUE TO EVENTS AND CLOSURES***
- 7 THIS ROL IS FOR A 1 OF 2 BUS ONLY RIGHT TURN LANE***
- 8 WORKSITE MUST BE SETUP TO ENSURE ONE (1) TRAFFICABLE LANE REMAINS OPEN TO TRAFFIC AT ALL TIMES IN EACH DIRECTION. LANE WIDTHS MUST BE SUFFICIENT TO PERMIT HEAVY VEHICLES ACCESS.
- 9 ADEQUATE ADVANCE WARNING MUST BE PROVIDED TO APPROACHING MOTORISTS.
- 10 EXISTING BUS STOPS IN WORK AREA MUST BE MAINTAINED IN CONSULTATION WITH ALL BUS COMPANIES USING THESE STOPS.
- 11 DETOUR ROUTE MUST BE CLEARLY SIGNPOSTED.
- 12 DETOUR ROUTE ON LOCAL ROADS IS SUBJECT TO APPROVAL BEING OBTAINED FROM RELEVANT LOCAL COUNCIL.
- 13 THESE WORKS ARE ONLY TO PROCEED AT THE DISCRETION OF THE TMC DUTY CHIEF CONTROLLER AT THE COMMENCEMENT OF EACH SHIFT.
- 14 SIGNAL OPERATIONS MUST BE DISCUSSED WITH TMC PRIOR TO UNDERTAKING CLOSURE.
- 15 CONTACT MUST BE MADE WITH SYDNEY BUSES ON 9245 1300 PRIOR TO LANE CLOSURES BEING IMPLEMENTED.
- 16 THIS LICENCE OPERATES IN CONJUNCTION WITH A SPEED LIMIT REDUCTION TO 40KM/H. REFER TO SZA TT/TMC 716380/001

APPROVED DATES & TIMES

From Shift					To Shift				
From	D	M	Time	-	To	D	M	Time	
Mon	27	Feb	22:00	-	Tue	28	Feb	05:00	
Tue	28	Feb	22:00	-	Wed	01	Mar	05:00	
Wed	01	Mar	22:00	-	Thu	02	Mar	05:00	
Thu	02	Mar	22:00	-	Fri	03	Mar	05:00	
Mon	06	Mar	22:00	-	Tue	07	Mar	05:00	
Tue	07	Mar	22:00	-	Wed	08	Mar	05:00	
Wed	08	Mar	22:00	-	Thu	09	Mar	05:00	
Mon	13	Mar	22:00	-	Tue	14	Mar	05:00	

SPEED ZONE AUTHORISATION

LIC/SZA NO : 716380/001

TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM



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NON DEVELOPMENT - INVESTIGATION

Project: Not Applicable
This Activity : Investigation work on behalf of UEA

SPEED LIMIT REDUCTION

Existing: 70 Km/h
Reduced To : 40 Km/h

This Speed limit is ONLY to be applied during the approved time periods listed. Signs are to be covered or removed outside the approved time periods. The Organisation is to maintain accurate records of when the speed limit signs were installed and removed, including the location of the signs, the date and times. The existing posted speed limit* is to be reinstated at the completion of each of the approved time periods as detailed herein.

LOCATION

Subject Road: ELIZABETH ST
From: ALBION ST, SURRY HILLS
To: FOVEAUX ST, HAYMARKET
Council:

TRAFFIC MANAGEMENT

Distance(m): 49
Direction: Southbound

LICENSEE

Organisation: Australian Utilities Management
Ref No:
Name: Tanya Toland
Phone: 0419292351

ONSITE CONTACT

Name: Tanya Toland
Phone: 0419292351

APPROVED DATES & TIMES

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Mon	06	Mar	22:00	-	Tue	07	Mar	05:00
Tue	07	Mar	22:00	-	Wed	08	Mar	05:00
Wed	08	Mar	22:00	-	Thu	09	Mar	05:00
Mon	13	Mar	22:00	-	Tue	14	Mar	05:00

Appendix 3: Cover Page

Community Notification.

Out-of-hours Works Notification

21 April, 2017

Sydney Metro is Australia's largest public transport project. It will transform Sydney, delivering more trains and faster services for customers across the network.

Sydney Metro City & Southwest will deliver 30 kilometres of metro rail between Chatswood and Bankstown, new railway stations in the lower North Shore and CBD, and the upgrade and conversion of the current line between Sydenham and Bankstown.

The Chatswood to Sydenham section of the project received planning approval in early January, 2017 with construction planned to start in the coming months.

Utility Enabling Works – Eddy Avenue, Haymarket

Utility enabling works will continue to be undertaken in Eddy Avenue from **Sunday 23 April to Thursday 27 April, 2017**. These works will be undertaken continuously from **6.00pm** on Sunday to **6.00am** Thursday.

*There will be no work on ANZAC Day, **Tuesday April 25 between 4am and 9pm.***

Works will involve:

- Closing the Eddy Avenue bus lane to ensure safety of workers and vehicles
- Excavating a trench approximately 1.5m wide x 3m deep across the Eddy Avenue bus lane
- Installing conduits
- Backfilling the trench and reinstating any affected areas.

This work will enable a high voltage power supply to be installed before construction begins on the new metro rail platforms at Central Station.

What you can expect

- Due to the nature of the work, some of these activities will be noisy. The project team will limit these impacts by scheduling the noisiest activities before midnight, wherever possible
- Non-tonal reversing beepers will be used and workers will be instructed to keep noise to a minimum
- Traffic control and directional signage will be in place for the safety of workers and the community
- When the works are finished affected areas will be reinstated.

Thank you for your cooperation during these essential works.

Utility Enabling Works – Eddy Avenue, Haymarket



Contact us

To register for email updates,
obtain more information
or
to make a complaint,
please contact the project team

Phone: 1800 171 386

Email: sydneymetro@transport.nsw.gov.au

Website: sydneymetro.info



If you require the services of an interpreter, please contact the **Translating and Interpreting Service** on 131 450 and ask them to call **Sydney Metro** on 1800 171 386. The interpreter will then assist you with translation.



Transport
for NSW

