

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: | Axicom (sub-contractors Alpha Design Consultants and Martens Consulting Engineers) |
| Project: | Axicom Tower Relocation |
| Application Title: (e.g. Smith St trenching works) | Establishment of a new Axicom telecommunications facility comprising a 35m monopole, associated compound area including equipment shelters, compound fencing and cable trays. |
| Application Number: | 3 |
| Application Date: | 1/05/2018 |
| Planning Approval: | Chatswood to Sydenham EIS and Sydenham Modification Approval |
| 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? | <p><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></p> <p>No</p> |

Part 2: Details

| | |
|---|--|
| <p>Describe the proposed Minor Works: Including work methodologies, site location(s) and site description(s) (e.g. landscape type, waterways, etc.).</p> | <p>The establishment of a new telecommunications facility to replace the existing Axicom facility currently located at Sydenham Drainage and Pumping Station</p> <ol style="list-style-type: none"> 1. Establish exclusion zone including temp fence and Metro badged shade cloth to prevent public access. 2. Minor levelling of site including removal of redundant concrete slab. 3. Mobilise and establish boring machine to site and complete footing excavation to designed depth. 4. Take receipt of the lower 10m section of pole and position butt section into the excavation with the assistance of a Franna crane and backfill with concrete. 5. Install site earthing, fence and other compound works. 6. Complete planned pole installation using appropriate traffic and pedestrian management from crane positioned on Shirlow St and picker positioned inside the compound. 7. Remove temp fence and transfer Metro shade cloth to new compound fence. 8. Complete power installation works <p>Refer to works map below for further detail.</p> |
| <p>Planned Commencement Date:</p> | <p>July 2018</p> |
| <p>Local Sensitivities: Describe the presence (if any) of local sensitive environmental areas and community receptors</p> | <p>The site is located in an industrial area surrounded by roads and industrial premises. The adjacent heritage-listed Sydenham Pit and Pumping Station is the only local sensitivity.</p> |

Part 3: Environmental Risk Assessment and Management

| | |
|--|--|
| <p>Prepare an Environmental Risk Assessment and an Environmental Control Map for the proposed Minor Works and attach as Appendix 1. 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: 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, procedures, etc.).</p> | <ul style="list-style-type: none"> - Environmental Risk Assessment and Environmental Control Map - Community Communications Strategy – Early Works - Sydney Metro Unexpected Find Procedure |

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>The environmental and community risk will be communicated to the contractor during an onsite meeting. During this on site meeting the minor works permit, environmental control map and the environmental impact assessment will all be presented to the contractors so that they are aware of risks and the mitigation measures.</p> |
|--|--|


Part 5: Community Consultation

| | |
|---|--|
| What community consultation has been undertaken already? | Local community has received consultation on the Sydney Metro project in general, including SSJ and TSE notifications for works in local area. Over recent weeks, local receivers have been notified of other early works associated with the Axicom tower relocation. |
| What community consultation is planned to be undertaken? | In accordance with the Community Communications Strategy – Early Works, business in 1 - 11 Sydenham Road / Garden St who are positioned alongside Railway Terrace (used as access to remove the tower) will be contacted by TfNSW and notified 7 days in advance of the commencement of works. |
| 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: | Mr Simon Lord | Position: | Director – Alpha Designs | Phone: | 02 9707 1171 |
| | | | | | 0405 780 157 |
| | | | | | |

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: | Ms Joanna Ward - Axicom | | |
| Signature: |  | Date: | 18/04/2018 |

Determination Page

(TfNSW/Environmental Representative Use Only)

| 12. Endorsement/Approval | | | |
|--|--|---|---|
| <p>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).</p> | | | |
| | 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: | <i>F. Morrisby on behalf of Axicom Brown</i> |  |  |
| Name: | <i>F. Morrisby</i> | <i>FIL CARONE</i> | Jo Robertson |
| Date: | <i>28/6/18</i> | <i>2/7/18</i> | 28 June 2018 |
| Comments: | <i>- Notifications to be distributed re: new tower (August)? - Mention delcos in Nov? notification for removal of tower.</i> | <i>-</i> | Supporting letter attached as Appendix 4 if necessary. |
| Conditions: | | | Supporting letter attached as Appendix 4 if necessary. |
| <input checked="" type="checkbox"/> Approved (by TfNSW) | | | |
| <input checked="" type="checkbox"/> Endorsed (by Environmental Representative) | | | |
| <input type="checkbox"/> Rejected | | | |

Appendix 1: Cover Page

Environmental Risk Assessment and Environmental Control Map.

22 June 2018

Sydney Metro
680 George Street
Sydney NSW 2000

Dear Fil Cerone,

Environmental Risk Assessment – Marrickville Tower Relocation

This Environmental Risk Assessment has been prepared to accompany a minor works approval application for the establishment of a new telecommunications facility at 1c Sydney Steel Road, Marrickville (Lot 1 DP613757).

The establishment of the new facility is required for the necessary relocation of an existing Axicom structure currently located at Sydney Water Stormwater Basin, Railway Parade Marrickville.

The risks that have been identified with the above works are:

- Impact of works on the adjacent state heritage listed Sydenham storm water basin.
- Visual impact of relocated telecommunications facility on surrounding area.
- Impact of new facility on nearby pedestrian walkways.
- Contamination of water through debris, dust and other construction materials.

A number of measures will be put in place to ensure the above risks are eliminated or mitigated. These are detailed below.

Impact of works on the adjacent Sydenham storm water basin

A number of measures will be in place to eliminate any heritage risks to the adjacent Sydenham Pit site. The proposed monopole will be embedded 10m into the ground as per design drawings, ensuring structural integrity. The associated excavation is not expected to impact on the structural stability to the adjacent pit. A geotechnical investigation was undertaken to ensure the foundation for the proposed structure is adequate and will not cause disturbance to the surrounding area stability.

A draft engineering assessment has been carried out that demonstrates that works will not have a vibratory impact on the pit. The draft Geotechnical Engineer 'Building Over or Next to Sydney Water's Asset' (BOA) assessment states that there will be no 'excessive vibration inducing actions' from construction works. The final BOA will be approved by Sydney Water (asset owner) prior to works commencing.

As the construction works are temporary in nature, it is not expected that there will be any impact on the long term heritage character of the pit.

Impact of relocated telecommunications facility on surrounding area in terms of visual impact

As part of the Sydney Metro project, the existing Axicom structure is being relocated to the above mentioned location. The structure will be moved 170m north west. The area is predominantly industrial in nature with some small scale commercial uses. In the context of the Sydney Metro project, the relocation of the structure is considered to be minor and it is not expected that there will be any associated long term detrimental impacts on the visual amenity of the area from the relocation. Both the existing and proposed locations are similar in land use and nature and the structure height will remain unchanged.

Impact of new facility on nearby pedestrian walkways

The proposed location for the relocated structure is adjacent to a Council owned pedestrian walkway which runs between Sydney Steel Road and Shirlow Street. This walkway is currently impeded by Sydney Metro works not associated with this application. It is anticipated that once construction works are complete, the proposed facility will not impact on the Council walkway. As is evident within the proposal plans the structure is setback to avoid intrusion on the walk way. A new driveway is being constructed as part of this proposal which requires approval from Council pending review to ensure there are no adverse impacts on the pedestrian use of the area.

Contamination of water

Silt fencing will be erected during the construction period to prevent contamination of pit water by sediment runoff. This is demonstrated in the environmental control map.

Air Quality

Shade cloth surrounding the site will mitigate air quality impacts caused by dust.

Noise

The noise level requirements of the planning approval conditions will be complied with during construction and installation.

Noise generating equipment is expected to be:

- **20T Excavator:** Will be used for the compound works and the excavation of the footing. To be used for the duration of build (3-4 weeks)
- **25T Franna and 25T Crane:** These will be used to offload and install the pole section for the footing installation. The Franna will offload the pole section horizontally from the pole delivery truck and move it to a location where the 25T Crane can lift the pole section into a vertical position and place it in the excavated footing. Each piece of plant to be utilized for one day.
- **50T Crane:** Will be used to lift the pole sections into place during the tower erection process. To be utilized on site for one day.
- **26T concrete truck and concrete pump:** These will deliver the required concrete for the footing. They will be on site for a half day each.
- **35T pole delivery truck:** Will be on site for two separate deliveries. Each delivery will take maximum 45 minutes to offload the monopole sections

The noise from construction and the above mentioned heavy vehicles has been mitigated by the fact that each of the above listed vehicles will be on site for the minimum amount of time required to complete the task. Furthermore, all of the above mentioned vehicles are standard construction equipment. Nothing of excessive sound will be used during the construction process.

The site is surrounded by commercial properties, with the closest residential property located over 350m away on the other side of the railway line on the corner of Burrows Ave and Hogan Ave.

Out of Hours works will be undertaken in accordance with the Out of Hour Protocol. Out of hours work will be dictated by Council requirements with regard to any required road closures. These road closures will be applied for during the construction phase and will be necessary to facilitate pole delivery, and the use of the above listed crane and concrete pump on site.

Unexpected Finds

The Sydney Metro Unexpected Finds Procedure will be implemented for all ground intrusive works. Upon discovering an unexpected find, works will cease and Sydney Metro Heritage Manager (Ron Turner) will be contacted immediately for further advice (0410 455 178).

Materials and Waste Management

Materials will be brought to site as required and installed once on site, stored on pallets within the compound area. Monopole sections will be installed on the day of arrival. Fence post and fencing materials will be installed within a week of arriving on site.

Spoil will be removed from site same day as the excavations occur and removed to a licenced waste facility. Site debris will be kept to a minimum, site skip bin will be on-site as required and waste will be disposed of at appropriate waste facility. A spill kit will be provided to immediately manage spills and prevent impact to the stormwater in the pit.

Roads & Traffic

Construction vehicles will be restricted to the following local roads in order to access the site to and from Sydenham Road and the extended RMS state and regional road network:

- Railway Parade
- Garden Street
- Shirlow Street
- Saywell Street
- Fitzroy Street (between Saywell Street and Sydenham Road only)

Environmental Control Map



Heritage and Curtilage Area

Works Boundary Line (Subject Site)

Silt fencing (see below insert)

Temporary fencing (see below insert)




Pedestrian diversion to minimise risk



Sydney Metro

Community Consultation Strategy – Early Works

| | | | |
|------------------|---|--------------------|----------------|
| PROJECT | Sydney Metro | DATE | 12/4/18 |
| GROUP | C&SW Project Communications | STATUS | FINAL |
| AUTHOR | Rebecca Raap | REVISION | 4.0 |
| COMPANY | Sydney Metro | FILE NUMBER | SM-18-00006400 |
| FILE NAME | Community Communications Strategy - Early Works | | |

| Revision | Revision Date | Status | Brief reason for update | Name | Author/ Reviewer/ Approver | Signature |
|----------|---------------|--------|---|--------------|----------------------------|---|
| 0.1 | 20/3/17 | Draft | Initial document | Rebecca Raap | Author |  |
| 1.0 | 21/3/17 | Final | Approved for distribution to contractors and Department of Planning and Environment | Anne Purcell | Approver |  |
| 1.1 | 12/4/17 | Draft | Review and edits based on feedback from DPE | Rebecca Raap | Author |  |
| 1.1 | 12/4/17 | Final | Approved for distribution to contractors and Department of Planning and Environment | Anne Purcell | Approver |  |
| 1.2 | 27/6/17 | Draft | Incorporating changes from DPE | Rebecca Raap | Author |  |
| 1.2 | 27/6/17 | Final | Approved for distribution | Anne Purcell | Approver |  |
| 2.0 | 29/10/17 | Draft | Updated to include additional early works scope items <ul style="list-style-type: none"> - Chatswood to Artarmon corridor work - Victoria Cross North - Barangaroo - Martin Place South - Bligh Street entrance - Pitt Street South | Rebecca Raap | Reviewer |  |
| 2.0 | 29/10/17 | Final | Approved for distribution | Anne Purcell | Approver |  |
| 3.0 | 17/01/18 | Draft | Updated to include additional early work scope items for Sydenham Station and Junction | Rebecca Raap | Author |  |
| 3.0 | 28/1/18 | Final | Approved for distribution | Anita Brown | Approver |  |
| 4.0 | 12/4/18 | Draft | Updated to include additional early work scope items for Central Station | Rebecca Raap | Author |  |
| 4.0 | 12/4/18 | Final | Approved for distribution | Anita Brown | Approver |  |

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1 Introduction

1.1 Document purpose

The Community Communication Strategy – Early Works (CCS-EW) describes the approach Transport for NSW will use to manage engagement and ongoing consultation with stakeholders and the community with an interest in, or potentially affected by Sydney Metro City & Southwest early works between Chatswood and Sydenham (the Project).

For the purpose of this plan, ‘early works’ includes:

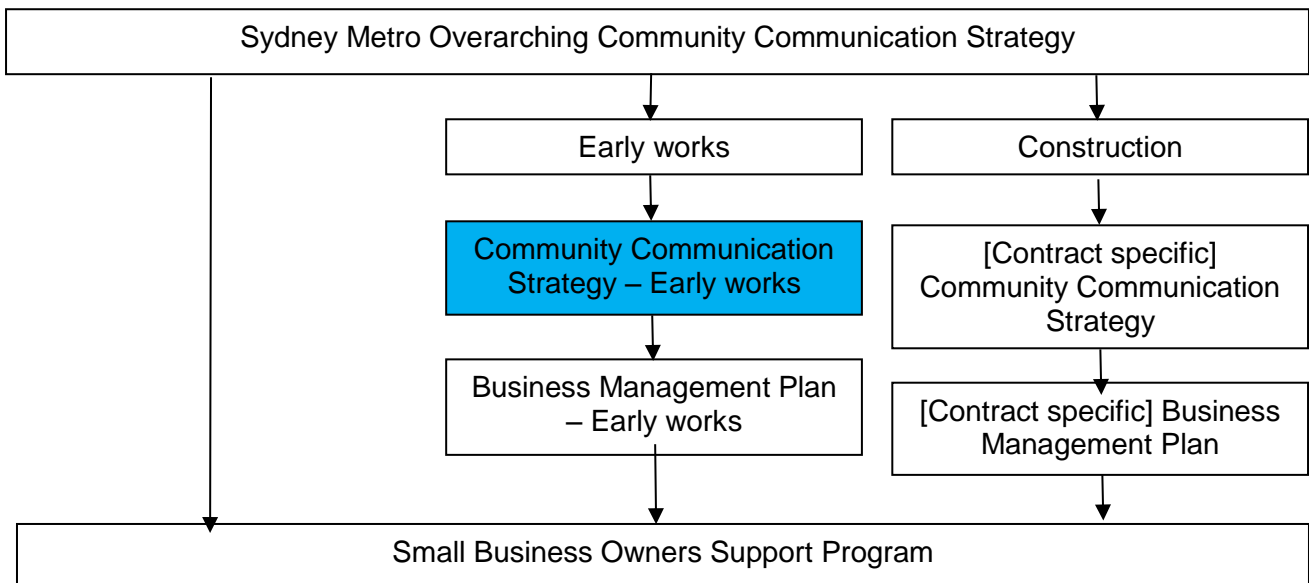
- demolition,
- construction of the Sydney Yard Access Bridge (Central Station),
- overhead wiring and drainage works in the Chatswood to Artarmon rail corridor,
- initial site establishment activities for the Tunnel and Station Excavation (TSE) work,
- initial site establishment, utility investigations and relocations and other investigations for Sydenham Station and Junction (SSJ) work, and
- initial site establishment, utility investigations and relocations and other investigations for the Central Station Main (CSM) works.

The CCS-EW will:

- Identify stakeholders and members of the community that may be affected by early works and the issues specific to each community;
- Detail the strategies and activities to be used to facilitate open communication and engagement with stakeholders and members of the community;
- Explain mitigation measures; and
- Define roles and tools to enable Place Managers to deliver the CCS-EW.

This plan sits under the *Sydney Metro Overarching Community Communications Strategy (OCCS)* as outlined below.

Figure 1 Where this plan sits in the hierarchy



1.2 Plan requirements

This plan, along with the OCCS will be submitted to the Secretary for approval no later than three months from the date of the project approval or one month before commencement of any work, whichever is the latter.

Work will not start until the Community Communication Strategy has been approved by the Secretary, and will be implemented for the duration of early works.

1.3 Objectives

The objectives of the CCS-EW are to:

- Fulfil the requirements of the Minister’s Conditions of Approval (MCoA), as they relate to the early works portion of works, to facilitate engagement and ongoing consultation with stakeholders and members of the community interested in or affected by the Project’s early works (see 1.4).
- Provide a detailed communication and engagement plan that supports the early works program,
- Inform stakeholders and members of the community by providing clear, factual and timely information about the timing and impacts associated with early works, including proposed mitigation measures,
- Provide a mechanism for prompt issues resolution,
- Build key stakeholder relationships and maintain goodwill,
- Ensure coordinated communications with all relevant agencies including Sydney Coordination Office and Roads and Maritime Services.

1.4 Minister's Conditions of Approval

The Projects' approval requires the preparation and implementation of a Community Communication Strategy. The Sydney Metro Overarching CCS document fulfils this requirement at an overarching level.

This document fulfils the requirements of the MCoA for the early works portion of the Project including:

- demolition work between Q2 2017 and Q4 2017,
- construction of the Sydney Yard Access Bridge between Q2 2017 and Q2 2018,
- construction of new overhead wiring support structures and drainage infrastructure in the rail corridor between Chatswood and Artarmon Stations between Q1 2018 and Q3 2019,
- initial site establishment activities for the TSE Works during Q4 2017
- initial site establishment activities, utility investigations and relocation and other investigations SSJ between Q1 2018 and Q3 2018.

John Holland Pty Ltd and Laing O'Rourke Australia Construction Pty Ltd Joint Venture (JHLORJV) have been awarded the contract to deliver SSJ works for Sydney Metro. JHLORJV is required to prepare a Community Communications Strategy for SSJ work (CCS-SSJ) which will be submitted to DPE for approval, prior to construction commencing. Minor works delivered by JHLORJV will be delivered in accordance with the requirements of this document until the CCS-SSJ is approved and construction starts.

- initial site establishment activities, utility investigations and relocation and other investigations for CSM works between Q1 2018 and Q3 2018.

Laing O'Rourke (LOR) Australia Construction Pty Ltd has been awarded the contract to deliver the CSM works for Sydney Metro. LOR is required to prepare a Community Communications Strategy for CSM works (CCS-CSM) which will be submitted to DPE for approval prior to construction commencing. Minor works delivered by LOR will be delivered in accordance with the requirements of this document until the CCS-CSM is approved and construction starts.

Table 1 outlines the MCoA and where they are addressed in the OCCS, this or subsequent plans.

Table 1 Minister's Conditions of Approval

| Ref | Requirement | Section |
|-----|--|---|
| B1 | A Community Communication Strategy must be prepared to facilitate communication between the Proponent, and the community (including Relevant Councils, adjoining affected landowners and businesses, and others directly impacted by the CSSI), during the design and construction of the CSSI and for a minimum of 12 months following the completion of construction of the CSSI. | <ul style="list-style-type: none"> • All, as it relates to the early works • OCCS |
| B2 | The Community Communication Strategy must: | <ul style="list-style-type: none"> • Appendix A |
| | (a) identify people or organisations to be consulted during the design and construction phases; | |
| | (b) set out procedures and mechanisms for the regular distribution of accessible information about or relevant to the CSSI; | <ul style="list-style-type: none"> • 4.2 • 6 |

| Ref | Requirement | Section |
|-----|---|--|
| | | <ul style="list-style-type: none"> • Appendix A • OCCS (s. 6) |
| | (c) identify opportunities to provide accessible information regarding regularly updated site construction activities, schedules and milestones at each construction site including use of construction hoardings to provide information regarding construction, specific to the location; | <ul style="list-style-type: none"> • Appendix A |
| | (d) identify opportunities for the community to visit construction sites (taking into consideration workplace, health and safety requirements); | <ul style="list-style-type: none"> • Contractor CCS |
| | (e) involve construction personnel from each construction site in engaging with the local community; | <ul style="list-style-type: none"> • OCCS s8.1; 8.5; 8.11; 8.15; 8.21; 8.28 • Contractor CCS |
| | (f) provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the relevant community(ies) for the CSSI; | <ul style="list-style-type: none"> • OCCS s8.29 • Contractor CCS |
| | (g) set out procedures and mechanisms: i. through which the community can discuss or provide feedback to the Proponent; ii. through which the Proponent will respond to enquiries or feedback from the community; and iii. to resolve any issues and mediate any disputes that may arise in relation to environmental management and delivery of the CSSI. | <ul style="list-style-type: none"> • OCCS • Construction Complaints Management System |
| B3 | The Community Communication Strategy must be submitted to the Secretary for approval no later than three months from the date of this approval or one (1) month before commencement of any work, whichever is the latter. | <ul style="list-style-type: none"> • 1.2 |
| B4 | Work for the purposes of the CSSI must not commence until the Community Communication Strategy has been approved by the Secretary, or within another timeframe agreed with the Secretary. | <ul style="list-style-type: none"> • 1.2 |
| B5 | The Community Communication Strategy , as approved by the Secretary, must be implemented for the duration of the works and for 12 months following the completion of construction. | <ul style="list-style-type: none"> • 1.2 • OCCS |

2 About Sydney Metro

Sydney Metro is Australia's largest public transport Project. A new standalone railway, this 21st century network will deliver 31 metro stations and 66 kilometres of new metro rail for Australia's biggest city – revolutionising the way Sydney travels.

Sydney's new metro railway will have a target capacity of about 40,000 customers per hour, similar to other metro systems worldwide. Sydney's current suburban system can reliably carry 24,000 people an hour per line.

Sydney Metro, together with signalling and infrastructure upgrades across the existing Sydney rail network, will increase the capacity of train services entering the Sydney CBD – from about 120 an hour today to up to 200 services beyond 2024. That's an increase of up to 60 per cent capacity across the network to meet demand.

Sydney Metro has two core components:

- Stage 1: Sydney Metro Northwest

Formerly the 36-kilometre North West Rail Link, this \$8.3 billion Project is now under construction. Tunnelling has finished and construction is progressing rapidly.

Services start in the first half of 2019 using Sydney's new-generation of fully-automated metro trains, with a metro train every four minutes in the peak.

Customers won't need a timetable when Sydney Metro opens – they'll just turn up and go.

- Stage 2: Sydney Metro City & Southwest

From Sydney's booming North West region, a new 30-kilometre metro line will extend metro rail from the end of Sydney Metro Northwest at Chatswood under Sydney Harbour, through new CBD stations and southwest to Bankstown.

Features will include:

- 16.5 kilometres of new metro line between Chatswood and Sydenham
- 15.5 kilometres of new twin rail tunnels
- 13.5 kilometre upgrade and conversion of the T3 Bankstown Line to metro standards.

It is due to open in 2024 with the capacity to run a metro train every two minutes each way through the centre of Sydney – a level of service never before seen in Sydney.

3 Early works scope

The following table outlines the early works scope across the Sydney Metro construction sites between Chatswood and Sydenham and the associated Place Manager responsible for engagement with community and business stakeholders.

Engagement with the community and businesses during early works will be undertaken by a combination of Sydney Metro Place Managers and Contractor Place Managers.

Table 2 Early works scope

| Site | Explanation | Place Manager |
|-------------------------------------|--|--|
| Chatswood | <ul style="list-style-type: none"> • Demolition by Delta Group <ul style="list-style-type: none"> – Site establishment – Aerial Bundling Cabling Low Voltage works – Soft strip out of buildings – Decommission of Ausgrid Substation – Demolition of former Ausgrid site • Site establishment by JHCPBG <ul style="list-style-type: none"> – Utility, heritage, geotechnical and contamination investigations – Relocation of existing utility services – Installation of noise walls and environmental controls – Construction of internal access roads – Installation of site facilities – Vegetation clearing | Robin Baird (TfNSW until 31 July 2017) Kylie Brosnan (JHCPBG) |
| Chatswood to Artarmon Rail Corridor | <ul style="list-style-type: none"> • Construction of overhead wiring support structures between Albert Street, Chatswood and Brand Street Artarmon • Removal of overhead wiring support structures between Albert Street and Hopetoun Avenue, Chatswood • Construction of a retention basin construction between Drake Street and Brand Street, Artarmon • Drainage works between Hopetoun Avenue, Chatswood and Drake Street, Artarmon | Helena Johansson (TfNSW) |
| Artarmon | <ul style="list-style-type: none"> • No early works required | Robin Baird (TfNSW until 31 July 2017) Kylie Brosnan (JHCPBG) |
| Crows Nest | <ul style="list-style-type: none"> • Demolition by Delta Group | Jonathan Lloyd |

| Site | Explanation | Place Manager |
|----------------------|---|---|
| | <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings • Site establishment by JHCPBG <ul style="list-style-type: none"> - Utility, heritage, geotechnical and contamination investigations - Relocation of existing utility services - Installation of noise walls and environmental controls - Installation of site facilities - Removal of vegetation | (TfNSW until 31 July 2017) Kylie Brosnan (JHCPBG) |
| Victoria Cross South | <ul style="list-style-type: none"> • Demolition by Delta Group <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings | Jonathan Lloyd (TfNSW until 31 July 2017) Heather Jackson (JHCPBG) |
| Victoria Cross North | <ul style="list-style-type: none"> • Site establishment by JHCPBG <ul style="list-style-type: none"> - Utility, heritage, geotechnical and contamination investigations - Relocation of existing utility services - Installation of environmental controls - Construction of noise walls and acoustic shed - Installation of site facilities - Removal of vegetation | Jonathan Lloyd (TfNSW until 31 July 2017) Heather Jackson (JHCPBG) |
| Blues Point | <ul style="list-style-type: none"> • No early works required | Robin Baird (TfNSW until 31 July 2017) Heather Jackson (JHCPBG) |
| Barangaroo | <ul style="list-style-type: none"> • Early works by JHCPBG <ul style="list-style-type: none"> - Traffic changes and removal of parking on Hickson Road - Protection of heritage wall along Hickson Road - Removal of vegetation - Site establishment activities including installation of environmental controls, installation of noise walls, relocation of existing services, installation of site facilities | Faye Rescigno (JHCPBG) |
| Bligh Street | <ul style="list-style-type: none"> • Site establishment by JHCPBG <ul style="list-style-type: none"> - Installation of environmental controls - Construction of temporary access - Relocation of existing services | Augusta Goldsmith (JHCPBG) |

| Site | Explanation | Place Manager |
|---------------------------|--|---|
| | <ul style="list-style-type: none"> - Construction of noise wall and acoustic shed - Installation of site facilities | |
| Martin Place North | <ul style="list-style-type: none"> • Demolition by Metropolitan Demolitions <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings | Jonathan Lloyd (TfNSW until 31 July 2017) Augusta Goldsmith (JHCPBG) |
| Martin Place South | <ul style="list-style-type: none"> • Demolition by JHCPBG <ul style="list-style-type: none"> - Site establishment - Soft strip out of building - Demolition of building | Jonathan Lloyd (TfNSW until 31 July 2017) Augusta Goldsmith (JHCPBG) |
| Pitt Street North | <ul style="list-style-type: none"> • Demolition by Delta Group <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings | Emily Smith (TfNSW until 31 July 2017) Glenda Hewitt (JHCPBG) |
| Pitt Street South | <ul style="list-style-type: none"> - Demolition by JHCPBG Site establishment - Soft strip out of buildings - Demolition of buildings | Emily Smith (TfNSW until 31 July 2017) Glenda Hewitt (JHCPBG) |
| Central Station | <ul style="list-style-type: none"> • Site establishment by LOR <ul style="list-style-type: none"> - Site inspection and surveys - Vegetation clearing - Utility, heritage, geotechnical and contamination investigations - Installation of site environmental management and traffic controls - Relocation of existing utility services - Adjustment and removal of existing rail infrastructure and systems | • Nikolai Morozow (LORAC) |
| Sydney Yard Access Bridge | <ul style="list-style-type: none"> • Laing O'Rourke <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings on Regent Street | Robin Baird (TfNSW) |
| Waterloo | <ul style="list-style-type: none"> • Demolition by Delta Group <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings • Site establishment by JHCPBG <ul style="list-style-type: none"> - Utility, heritage, geotechnical and contamination investigations | Michael Lloyd (TfNSW until 31 July 2017) Faye Rescigno (JHCPBG) |

| Site | Explanation | Place Manager |
|-------------------------------|---|---|
| | <ul style="list-style-type: none"> - Relocation of existing utility services - Installation of noise walls and environmental controls - Installation of site facilities - Removal of vegetation | |
| Marrickville | <ul style="list-style-type: none"> • Demolition by Delta Group <ul style="list-style-type: none"> - Site establishment - Soft strip out of buildings - Demolition of buildings • Site establishment by JHCPBG <ul style="list-style-type: none"> - Utility, heritage, geotechnical and contamination investigations - Relocation of existing utility services - Installation of noise walls and environmental controls - Construction of haul roads and offices on site - Vegetation clearing - Minor earthworks for precast works area | <p>Emily Smith (TfNSW until 31 July 2017)</p> <p>Faye Rescigno (JHCPBG)</p> |
| Sydenham Station and Junction | <ul style="list-style-type: none"> • Site establishment by JHLORJV <ul style="list-style-type: none"> - Utility, heritage, geotechnical and contamination investigations - Installation of site environmental management and traffic controls - Establishment of work sites including installation of power supply, water and other utilities work sites (whether temporary or permanent supplies) - Adjustment, modification and protection of utilities and services - Adjustment or removal of existing rail infrastructure (tracks, signalling and communication routes) within the rail corridor - Installation of containment for rail systems, including signalling, high voltage and communications - Vegetation clearance as required - Site inspection and surveys. | Sanjin Muhic (JHLORJV) |

4 Stakeholder & Community Engagement

Engagement before and during early works, will lay a good foundation for engagement throughout major construction by the Principal contractors. Engagement will focus on stakeholders and the community adjacent to construction sites who have an interest in, or who are likely to be affected by early works activities.

4.1 Our approach

Sydney Metro's approach to stakeholder and community engagement during early works is to:

- Provide key stakeholders and the community with information about construction progress
- Ensure people understand the scope of the works and mitigation measures
- Ensure key stakeholders and the community understand the proposed timing of the works
- Take steps to minimise potential impacts
- Maintain and protect Transport for NSW and Sydney Metro's reputation.

Encouraging stakeholder understanding of the project is essential. If an activity and the need for it are fully understood, stakeholders can be more tolerant of short-term impacts.

By undertaking open and honest communication with stakeholders, working to minimise impacts and being approachable and responsive during this project, Transport for NSW's reputation can be maintained or improved and the project delivered on schedule.

4.2 Tools

A full suite of Sydney Metro's communication tools are outlined in the *Overarching Community Communications Strategy*. The stakeholder and community engagement tools to be used during early works will include:

- **Place Managers** to be the single point of contact for affected stakeholder and the community and the project team, who will proactively doorknock properties and also respond quickly to any issues or complaints raised;
- **Notifications, signage, newsletters** including **maps** to keep stakeholders and the community informed, explaining the purpose of the works, what they can expect, and any potential impacts (delivered in paper or electronic format);
- **Newsletter** to provide a three month look-ahead to properties within 500 metres of the construction site on a quarterly basis;
- **Fact sheets** (as required) to provide detail on aspects of the work and the project;
- **Newspaper advertising** to advise of work starting, the community contact facilities and road closures for example;
- **Mobile community information centre**;
- **Communications Management Control Group**, Sydney Metro will establish a new group or attend existing forums to discuss project activities with neighbouring infrastructure projects;

- **Contact facilities and information points:**
 - Project website - www.sydneymetro.info
 - Facebook - www.facebook.com/SydneyMetro
 - 24-hour community information line - 1800 171 386
 - Postal address - PO Box K659, Haymarket, NSW 1240
 - Community email address
 - SydneyMetro@transport.nsw.gov.au
 - Tunnels@transport.nsw.gov.au
 - SydenhamMetro@transport.nsw.gov.au
- **Briefings** to strata managers, council officers, SCO, government agencies, and local groups;
- **Mitigation measures** to respond to impacts; and
- **Stakeholder database** to record interactions with stakeholders and the community.

4.3 Enquiries and complaint management

Enquiries and complaints will be managed in accordance with the Sydney Metro Overarching Community Communication Strategy and the Sydney Metro Complaints Management System. Both documents are available on the Sydney Metro project website.

5 Key Issues and mitigation measures

Table 3 Key issues and mitigation measures

| Issues | Communication and mitigation measures |
|---|---|
| Information about construction | <ul style="list-style-type: none"> • Regular notifications and newsletters • One on One meetings on request • Door knocks as required - both prior to works and as stakeholder checks after works • Attend stakeholder meetings to communicate Project information to their client base • Community contact facilities • Include information in Sydney Trains possessions notifications where required |
| Coordination of information for tenants and property owners | <ul style="list-style-type: none"> • Strata/building managers and owners notified of scheduled and emergency work in the area when necessary • Meetings arranged with strata/building managers and owners • Strata/building managers and owners informed of works before they commence |
| Construction noise and vibration | <ul style="list-style-type: none"> • Early engagement with neighbouring stakeholders on likely noise and vibration impacts (see <i>Information about construction</i> above) • Implementation of mitigation measures in the Construction Noise and Vibration Management Plan, Minor Works Approval or Out of Hours Approval where relevant • Noise minimised through, use of appropriate plant, tools and techniques and programming • High impact noise works staged with respite periods as required by any applicable Environment Protection Licence or planning approval • Temporary noise screens used around equipment, where appropriate • Staff Induction and tool box meetings prior to noisy activities to highlight acceptable work force behaviour • Noise and or vibration monitoring offered in response to complaints |
| Dust | <ul style="list-style-type: none"> • Dust minimised by using water carts, water sprayers, street sweepers, chemical and organic ground cover, hard stands and limiting activities on windy days where necessary |
| Construction traffic | <ul style="list-style-type: none"> • Implement site specific Traffic Management Plans • Coordinate traffic management with the CBD Coordination Office • Construction traffic movements minimised in peak times, where possible • Heavy vehicle specific access and egress locations and routes to minimise local congestion • Truck driver tool box meetings on localised conditions |

| Issues | Communication and mitigation measures |
|---|---|
| | <ul style="list-style-type: none"> • Out of hours deliveries to minimise impacts of oversized vehicles on local roads • Traffic Control Group |
| Concerns about property damage | <ul style="list-style-type: none"> • Property Condition Surveys offered where eligible • Vibration modelling information • Distribute fact sheets • Protection of heritage items using hoarding |
| Utility relocation and continuity of supply | <ul style="list-style-type: none"> • Detailed briefings for businesses potentially affected • Timing works, particularly service cutovers, to minimise potential impacts • Provide alternative service where necessary to maintain essential supply |
| Visual amenity | <ul style="list-style-type: none"> • Retain vegetation where possible or for as long as practical • Protection of trees to be retained • Hoarding designed in line with Sydney Metro Brand Style Guidelines • Prompt graffiti removal from hoarding, buildings, plant and surroundings kept well maintained and clean |

6 Communication Implementation plan

Site specific details can be found in Appendix A including a site overview, potential issues and stakeholder lists. The following implementation plan will be rolled out across all sites. For detail of specific stakeholders, refer to the relevant site specific appendix.

Responsibilities for implementing these tools can be found in the Overarching Community Communications Strategy, section 8.

Table 4 Communication implementation plan

| Project phase | Communication tools | Stakeholder | Timing |
|---------------------|---|--|-------------------------------|
| Project start-up | Communications Management Control Group | Neighbouring infrastructure projects (cumulative impacts) Government agencies Local council | Monthly or as required |
| | Mobile Community Information Centre | Local events like markets and fairs, shopping centre displays etc. | Throughout construction |
| | Briefings | Local council Local member Senior stakeholders Local groups Educational and religious institutions | As required or requested |
| Site investigations | Notification letter | Delivered to properties within 100m or work in standard construction hours, 200m for out of hours work** | 7 days prior to work starting |
| | Doorknock (if intrusive or loud) | Immediate neighbours | |
| Adjoining owner | Briefing | Adjoining property owners | Before site establishment |

| Project phase | Communication tools | Stakeholder | Timing |
|------------------------------|---|---|---|
| agreements | | | |
| Site establishment | Newsletter | Local council Local member Senior stakeholders Local groups Delivered to properties within 500m | At site establishment On a quarterly basis |
| | Notification letter | Delivered to properties within 200m for night work and 100m for day work** Local groups | 7 days prior to work starting |
| | Site signage Hoarding banners Directional signage | People passing by the site | As required |
| | Doorknock | Properties within 50m Educational and religious institutions | 7 days prior to work starting |
| Out of hours work | Notification letter | Delivered to properties within 200m ** Local groups | 7 days prior to work starting |
| | Doorknock | Properties within 50m | 7 days prior to work starting |
| Emergency work* | Notification letter | Affected properties | Within 2 hours |
| | Doorknock | | |
| Work during rail possessions | Sydney Trains notification | Sydney Trains delivery area (250m on either side of the rail corridor) | Delivered prior to possession period by Sydney Trains |
| Construction milestones | Included in monthly notification letter | Delivered to properties within 100m or work in standard construction hours, 200m for out of hours work** | Delivered on a monthly basis |

| Project phase | Communication tools | Stakeholder | Timing |
|-----------------|--|--|--|
| | Doorknock | Properties within 50m Educational and religious institutions | 7 days prior to new milestone |
| | Briefings | Local council Local member Senior stakeholders Local groups Government agencies | As required or requested |
| Traffic changes | Included in monthly notification letter | Delivered to properties within 100m or work in standard construction hours, 200m for out of hours work** | Delivered on a monthly basis |
| | VMS Traffic alert Bus stop notices | Road users | 7 days prior to work starting 7 days prior to new milestone |

* Work required to repair damaged utilities and/or make an area safe after an incident outside standard construction hours.

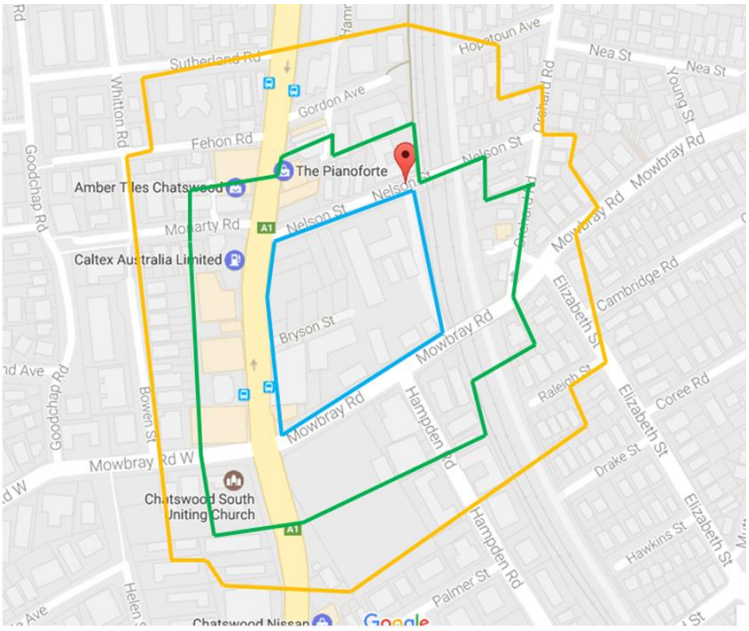
** If the impact of the work being notified will extend beyond this radius, the delivery area will be expanded

Appendix A Site specific details

Note: timing is approximate and subject to change. The community and stakeholders will be notified before work starts.

A.1 Chatswood dive site

Table 1 Site overview

| Item | Description | |
|---------------------------|--|--|
| Site name | <ul style="list-style-type: none"> Chatswood dive site |  |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG Demolition works by Delta Group | |
| Place Manager | <ul style="list-style-type: none"> Robin Baird (TfNSW until 31 July 2017) Kylie Brosnan (JHCPBG) | |
| Start date | <ul style="list-style-type: none"> April 2017 | |
| Location | <ul style="list-style-type: none"> The site is bordered by Mowbray Road, Pacific Highway and Nelson Street (and the rail corridor), Chatswood | |
| Notification key | <ul style="list-style-type: none"> Site boundary 50m 100m | |
| Scope and timing of early | <ul style="list-style-type: none"> Minor works (Subject to Minor Works Approval) Demolition works from April 2017 | <ul style="list-style-type: none"> Site establishment from October 2017 <ul style="list-style-type: none"> – Utility, heritage, geotechnical and contamination investigations |

| Item | Description |
|--------------------|---|
| work | <ul style="list-style-type: none"> - Service disconnections and temporary service establishment - Site establishment - Hoarding installation - Strip out and Hazmat removal - Aerial Bundling Cabling Low Voltage works - Decommissioning Ausgrid Substation - Building demolition |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 2 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on neighbouring businesses • Construction traffic noise including workforce, deliveries and truck movements |
| Traffic and access | <ul style="list-style-type: none"> • Maintaining vehicle access for neighbouring businesses including Chatswood Bowls Club, Midas Service Centre, Payless Tyres, T&M Auto Supplies, Dulux Paints and Pianoforte • Additional traffic including large vehicles on surrounding streets, Nelson Street and Orchard Road. • Traffic modifications including signage changes to footpath and pedestrian diversions • Utility works affecting footpath access |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Dust |
| Business operations | <ul style="list-style-type: none"> • Congestion and access to premises for customers and staff • Health impacts to business staff and customers from dust • Maintaining on-street parking for customers and staff |

| Item | Description |
|--------------------|--|
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for residents and businesses overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • 33 kV utility works between Willoughby and Chatswood • Main North and North Shore Corridor Works between Waitara and Waverton |
| Landscape | <ul style="list-style-type: none"> • Trees on the perimeter of Mowbray Road |
| Heritage | <ul style="list-style-type: none"> • Heritage Listed Mowbray House |

Table 3 Stakeholders and community overview

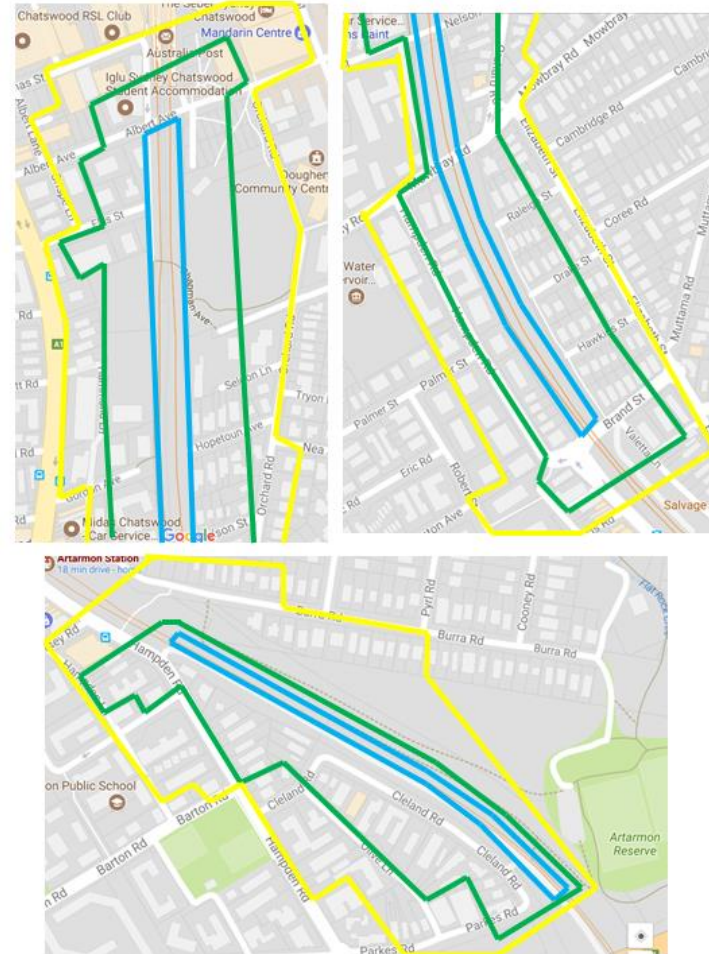
| Stakeholders | Detail | |
|---------------------|---|---|
| Local council | City of Willoughby | |
| Local member | The Hon. Gladys Berejiklian MP, Premier of NSW and Member for Willoughby | |
| Local groups | <ul style="list-style-type: none"> • Chatswood East Progress Association • Chatswood West Progress Association • Chatswood Chamber of Commerce • Artarmon Progress Association | <ul style="list-style-type: none"> • Artarmon Village Chamber of Commerce • Artarmon Bush Care • Bike North |
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Transport for NSW • Australian Rail Track Corporation | <ul style="list-style-type: none"> • NSW TrainLink • Sydney Trains • Sydney Water • Ausgrid • Heritage Council |
| Senior Stakeholders | <ul style="list-style-type: none"> • Federation of Willoughby Progress Associations • District Commissioner - North, Greater Sydney Commission | <ul style="list-style-type: none"> • Mayor, Willoughby City Council • Willoughby District Historical Society Inc. |
| Road users | <ul style="list-style-type: none"> • Road users on Mowbray Road, Pacific Highway, Hampden Road, Orchard Road, Nelson Street and Gordon Avenue | |

| Stakeholders | Detail | |
|--------------------------|--|--|
| Residents and businesses | | |
| Mowbray Road | <ul style="list-style-type: none"> • 340 – 2 double storey residences (duplex) • 342 - 6 residential units + NSW Strata Management • 344-346 - 9 residential units + strata manager | <ul style="list-style-type: none"> • 348 – Ausgrid, heritage substation • 366 – Sydney Water, heritage water tanks |
| Pacific Highway | <ul style="list-style-type: none"> • 522 – Great Northern Hotel • 524 - 35 residential units + strata manager • 544 - Baby Bounce and 35 residential units + strata manager • 546 – Real Flame • 552 – Demir Leather and 49 residential units+ strata manager • 572 - Caltex Service Station | <ul style="list-style-type: none"> • 574 - Maurer & Bracks Funeral Directors • 582 – Amber Tiles • 655 – Chatswood Bowling Club • 653 - 18 residential units + strata manager • 639 - Payless Tyres & Brakes and T&M Auto Parts • 629 - Midas Exhaust Brakes & Shocks • 627 – Pianoforte and 18 residential units + strata manager • 613 – Dulux Inspiration Paint |
| Orchard Road | <ul style="list-style-type: none"> • 2-14 - 6 residential homes | |
| Gordon Avenue | <ul style="list-style-type: none"> • 5-9 - Louder Minds (home based business) and 15 residential units + strata manager • 1-3 - 12 residential units (Frank Knight Property Management) | |
| Nelson Street | <ul style="list-style-type: none"> • 2 - 2 Home based businesses and residential home • 5 - residential home • 9-11 - 45 residential units (Dunns Strata Management, Property Manager – Oasis Property Management) | <ul style="list-style-type: none"> • 15 - 7 residential units + strata manager • 17 - 6 residential units + strata manager • 19 - 1 residential home |

A.2 Chatswood to Artarmon rail corridor

Table 4 Site overview

| Item | Description |
|------------------------|---|
| Site name | <ul style="list-style-type: none"> Chatswood to Artarmon rail corridor |
| Responsible contractor | <ul style="list-style-type: none"> Laing O'Rourke |
| Place Manager | <ul style="list-style-type: none"> Helena Johansson (TfNSW) |
| Start date | <ul style="list-style-type: none"> February 2018 |
| Location | <ul style="list-style-type: none"> The site comprises the rail corridor between Chatswood Station and Brand Street, Artarmon, and the rail corridor between Artarmon Station and Gore Hill Freeway |
| Notification key | <p> — Site boundary — 50m — 100m </p> |



| Item | Description |
|--------------------------------|--|
| Scope and timing of early work | <ul style="list-style-type: none"> • Minor works (Subject to Minor Works Approval) <ul style="list-style-type: none"> - Service location and geotechnical investigations – November 2017 • Overhead wiring structure construction between Albert Street, Chatswood and Brand Street Artarmon <ul style="list-style-type: none"> - Install footings (February 2018 – November 2018) across 6 possession weekends - Install masts (August 2018 – February 2019) – across 5 possession weekends - Install booms (October 2018 – April 2019) – across 4 possession weekends |
| Construction hours | <ul style="list-style-type: none"> • Retention basin construction between Drake Street and Brand Street Artarmon <ul style="list-style-type: none"> - Site establishment and vegetation removal - February 2018 - Test piling – May 2018 - Piling works – August 2018 - Brand Street stormwater connection – August 2018 - Retention basin construction – August 2018-December 2018 • Overhead wiring structure removal between Albert Street and Hopetoun Avenue, Chatswood – November 2018 • Drainage works between Hopetoun Avenue, Chatswood and Drake Street, Artarmon – December 2018-June 2019 |
| | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved • Some works will be undertaken during Sydney Trains possession weekends when trains are not in service. |

Table 5 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on neighbouring properties in particular during piling works for the retention basin • Construction traffic noise including workforce, deliveries and truck movements • Noise during out-of-hours work conduction during Sydney trains possessions when trains are not in service |
| Traffic and access | <ul style="list-style-type: none"> • Additional traffic including large vehicles on surrounding streets • Traffic modifications including signage changes to footpath and pedestrian diversions • Temporary lane closures during stormwater connection works |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Dust |

| Item | Description |
|---------------------|---|
| Business operations | <ul style="list-style-type: none"> • Health impacts to business staff and customers from dust |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for residents and businesses along the corridor |
| Cumulative Impacts | <ul style="list-style-type: none"> • 33 kV utility works between Willoughby and Chatswood • Main North and North Shore Corridor Works between Waitara and Waverton • Chatswood dive site construction and tunnelling works |
| Landscape | <ul style="list-style-type: none"> • Trees in the rail corridor between Drake Street and Brand Street, Artarmon |
| Heritage | <ul style="list-style-type: none"> • Nil |

Table 6 Stakeholders and community overview

| Stakeholders | Detail | |
|---------------------|---|---|
| Local council | City of Willoughby | |
| Local member | The Hon. Gladys Berejiklian MP, Premier of NSW and Member for Willoughby | |
| Local groups | <ul style="list-style-type: none"> • Chatswood East Progress Association • Chatswood West Progress Association • Chatswood Chamber of Commerce • Artarmon Progress Association | <ul style="list-style-type: none"> • Artarmon Village Chamber of Commerce • Artarmon Bush Care • Bike North |
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Transport for NSW • Australian Rail Track Corporation | <ul style="list-style-type: none"> • NSW TrainLink • Sydney Trains • Sydney Water • Ausgrid • Heritage Council |

| Stakeholders | Detail | |
|---------------------------------|---|---|
| Senior Stakeholders | <ul style="list-style-type: none"> • Federation of Willoughby Progress Associations • District Commissioner - North, Greater Sydney Commission | <ul style="list-style-type: none"> • Mayor, Willoughby City Council • Willoughby District Historical Society Inc. |
| Road users | <ul style="list-style-type: none"> • Road users on Mowbray Road, Pacific Highway, Hampden Road, Orchard Road, Nelson Street and Gordon Avenue | |
| Religious | <ul style="list-style-type: none"> • 35 Hampden Road – Artarmon Mosque | |
| Residents and businesses | | |
| Thomas Street | <ul style="list-style-type: none"> • 18 – 543 residential apartments + strata manager • 12 – 18 Commercial office suites + Strata Title Management | <ul style="list-style-type: none"> • 8 – 7 storey commercial office building + strata manager • 2 – Guide Dogs Association |
| Albert Avenue | <ul style="list-style-type: none"> • 65 – Mandarin Centre (rooftop sports club, cinema, food court and 26 retail shops) + Centre Management • 73-77 – 329 Student apartments + Building Manager • 100 – 42 Residential apartments + strata manager | <ul style="list-style-type: none"> • 67 – 15 Storey commercial tower + Managing Agent (CBRE). Mix of finance and Government tenancies • 84-86 – 32 Residential apartments + strata manager • 88 – 36 Residential apartments + strata manager |
| Victor Street | <ul style="list-style-type: none"> • 31-37 – Sebel Apartments, 112 residential apartments and 52 serviced apartments + strata management | |
| Victoria Avenue | <ul style="list-style-type: none"> • 436 – Chatswood Interchange Management | |
| Ellis Street | <ul style="list-style-type: none"> • 2 – Digital Evolution Design • 3 – 12 Residential apartments + strata manager • 4-6 – 18 Residential Apartments + strata manager | <ul style="list-style-type: none"> • 7-13 – 48 Residential apartments + strata manager • 8 – 40 Residential apartments + strata manager |
| Chapman Avenue | <ul style="list-style-type: none"> • 2 – Keenagers Day Centre • 6 – Uniting Chapman Close, 12 unit retirement village and Uniting Northern Sydney Regional Office | |
| Hopetoun Avenue | <ul style="list-style-type: none"> • 1A-13 – 7 residential homes | <ul style="list-style-type: none"> • 2-12 – 6 residential homes |
| Mowbray Road | <ul style="list-style-type: none"> • 340 – 2 double storey residences (duplex) • 342 - 6 residential units + NSW Strata Management | <ul style="list-style-type: none"> • 344-346 - 9 residential units + strata manager • 348 – Ausgrid, heritage substation |
| Pacific Highway | <ul style="list-style-type: none"> • 655 – Chatswood Bowling Club | |

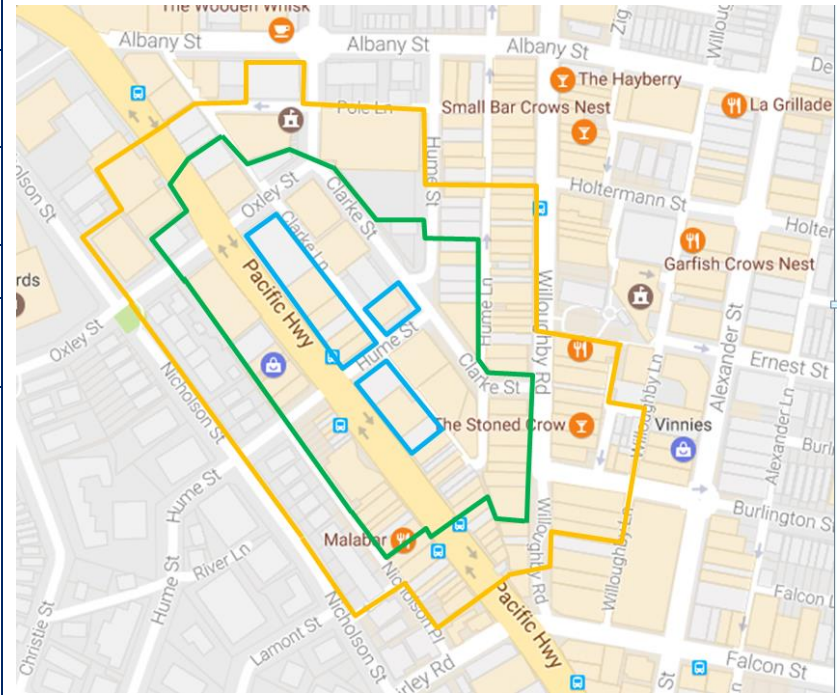
| Stakeholders | Detail | |
|------------------|--|--|
| Orchard Road | <ul style="list-style-type: none"> • 2-22 - 9 residential homes | |
| Gordon Avenue | <ul style="list-style-type: none"> • 5-9 - Louder Minds (home based business) and 15 residential units + strata manager • 1-3 - 12 residential units (Frank Knight Property Management) • 10 - 10 residential apartments + strata manager | |
| Nelson Street | <ul style="list-style-type: none"> • 2 - 2 Home based businesses and residential home • 1-5 – 3 residential homes • 9-11 - 45 residential units (Dunns Strata Management, Property Manager – Oasis Property Management) | <ul style="list-style-type: none"> • 15 - 7 residential units + strata manager • 17 - 6 residential units + strata manager • 19 - 1 residential home |
| Elizabeth Street | <ul style="list-style-type: none"> • 1-3 – 2 residential homes | <ul style="list-style-type: none"> • 40-52 – 9 residential homes |
| Raleigh Street | <ul style="list-style-type: none"> • 1-7 – 4 residential homes | <ul style="list-style-type: none"> • 8-14 – 4 residential homes |
| Drake Street | <ul style="list-style-type: none"> • 1-13 – 13 residential homes | <ul style="list-style-type: none"> • 12 – Family Day Care • 7 – Family Day Care |
| Hawkins Street | <ul style="list-style-type: none"> • 1-11 – 6 residential homes | <ul style="list-style-type: none"> • 2-14 – 7 residential homes |
| Brand Street | <ul style="list-style-type: none"> • 1-13 – 7 residential homes • 2 – 8 residential apartments + strata manager | <ul style="list-style-type: none"> • 4 - 10 residential apartments + strata manager • 8-10 – 16 residential apartments + strata manager |
| Hampden Road | <ul style="list-style-type: none"> • 9 – 12 residential apartments + strata manager • 11 – 16 residential apartments + strata manager • 13 – 24 residential apartments + strata manager • 15 – 8 residential apartments + strata manager • 17 – 16 residential apartments + strata manager • 19 - 4 residential apartments + strata manager • 21- 4 residential apartments + strata manager • 24 - 10 residential apartments + strata manager • 25 – 13 residential apartments + strata manager | <ul style="list-style-type: none"> • 67 – 9 residential apartments + strata manager • 77-83 – 4 residential homes • 85-91 – 10 residential apartments + strata manager • 97 – 12 residential apartments + strata manager • 99 – 16 residential apartments + strata manager • 107 – 18 residential apartments + strata manager • 115 – 10 residential apartments + strata manager • 117-119 – 12 residential apartments + strata manager • 130 – The Thai Artarmon, restaurant |

| Stakeholders | Detail | |
|---------------|--|---|
| | <ul style="list-style-type: none"> • 26 - 5 residential apartments + strata manager • 27 – 4 residential apartments + strata manager • 28-32 - 8 residential apartments + strata manager • 29 – 4 residential apartments + strata manager • 31 – 4 residential apartments + strata manager • 33 – 8 residential apartments + strata manager • 36 – 6 residential apartments + strata manager • 38 -- 10 residential apartments + strata manager • 40 – 6 residential apartments + strata manager • 42 - 4 residential apartments + strata manager • 44 - 12 residential apartments + strata manager and ground floor retail (Pizza Luna, Laing & Simmons) | <ul style="list-style-type: none"> • 2/130 – Inter Deserts • 132 – Artarmon Mowers, retail • 134-136 – Bella Babes Day Care Centre • 136 – Artarmon Medical Centre • 142 - 16 residential apartments + strata manager • 148 – 10 residential apartments + strata manager • 152-156 – 20 residential apartments + strata manager • 158-162 – 20 residential apartments + strata manager • 164 – 18 residential apartments + strata manager • 170-174 – 12 residential apartments + strata manager • 176 – 8 residential apartments + strata manager • 182-190 – 32 residential apartments + strata manager |
| McMillan Road | <ul style="list-style-type: none"> • 1 – 9 residential apartments + strata manager | <ul style="list-style-type: none"> • 2 – 32 residential apartments +strata manager |
| Cleland Road | <ul style="list-style-type: none"> • 1 – 4 residential apartments + strata manager • 2 – 4 residential units + strata manager • 4-6 – 2 residential homes • 3 – 4 residential apartments + strata manager • 5-7A – 2 residential homes • 8-12 – 4 residential units + strata manager • 14-16 – 2 residential homes • 18 – 4 residential apartments + strata manager | <ul style="list-style-type: none"> • 20 – 4 residential units + strata manager • 24-28 – 6 residential units + strata manager • 30 – 10 residential apartments + strata manager • 32 – 6 residential apartments + strata manager • 34 – 8 residential apartments + strata manager • 36 – residential home • 38 - 10 residential apartments + strata manager |
| Parkes Road | <ul style="list-style-type: none"> • 1-3 – 8 residential apartments + strata manager • 5 – 12 residential apartments + strata manager | <ul style="list-style-type: none"> • 9-15 – 4 residential homes |
| Burra Road | <ul style="list-style-type: none"> • 17-53 – 19 residential homes | <ul style="list-style-type: none"> • 28-52 – 12 residential homes |

A.3 Crows Nest station site

Table 7 Site overview

| Item | Description | |
|--------------------------------|--|---|
| Site name | <ul style="list-style-type: none"> Crows Nest Station | |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG Demolition works by Delta Group | |
| Place Manager | <ul style="list-style-type: none"> Jonathan Lloyd (TfNSW until 31 July 2017) Kylie Brosnan (JHCPBG) | |
| Start date | <ul style="list-style-type: none"> 1 July 2017 | |
| Location | <ul style="list-style-type: none"> The site is bordered by Pacific Highway, Clarke Lane, Oxley and Hume streets, Crows Nest | |
| Notification key | <p> — Site boundary — 50m — 100m </p> | |
| Scope and timing of early work | <ul style="list-style-type: none"> Minor Demolition works (Subject to Minor Works Approval) Demolition works from July 2017 <ul style="list-style-type: none"> – Service disconnections and temporary service establishment – Site establishment – Hoarding installation – Strip out and Hazmat removal | <ul style="list-style-type: none"> Site establishment for from October 2017 <ul style="list-style-type: none"> – Utility, heritage, geotechnical and contamination investigations – Relocation of existing utility services – Installation of noise walls and environmental controls – Installation of site facilities – Removal of vegetation |



| Item | Description |
|--------------------|---|
| | – Building demolition |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 8 Potential issues

| Item | Description |
|---------------------|--|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on neighbouring residential buildings and businesses • Noise and vibration effects on adjacent childcare centre • Vibration impacts on sensitive equipment used by neighbouring businesses, for example medical premises and sound studios • Construction traffic noise including workforce, deliveries and truck movements |
| Traffic and access | <ul style="list-style-type: none"> • Maintaining access to rear driveways on Clarke Lane during demolition of adjacent buildings • Traffic modifications including signage changes to footpath and pedestrian diversions |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Dust impacts |
| Business operations | <ul style="list-style-type: none"> • Concern about health impacts to business staff and customers from dust, particularly adjacent childcare centre • Maintaining on-street parking for customers • Maintaining pedestrian access and providing clear signage to local businesses when diversion are required |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking the site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Multiple residential apartment developments underway in the precinct with traffic, noise, dust and amenity impacts • Council reviewing Crows Nest Master Plan • Future plan for redevelopment of Hume Street Parklands |

Table 9 Stakeholders and community overview

| Stakeholders | Special requirements | |
|--------------------------|--|---|
| Local council | <ul style="list-style-type: none"> • North Sydney Council • Lane Cove Council | |
| Local member | <ul style="list-style-type: none"> • Member for North Shore, Ms Felicity Wilson MP • The Hon. Gladys Berejiklian MP, Premier of NSW and Member for Willoughby | |
| Local groups | <ul style="list-style-type: none"> • Holtermann Precinct Committee • Wollstonecraft Precinct Committee | <ul style="list-style-type: none"> • Naremburn Progress Association • Crows Nest Main Street |
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Transport for NSW • Australian Rail Track Corporation | <ul style="list-style-type: none"> • NSW TrainLink • Sydney Trains • Sydney Water • Ausgrid • Heritage Council |
| Senior stakeholders | <ul style="list-style-type: none"> • Mayor, North Sydney Council | <ul style="list-style-type: none"> • Greater Sydney Commission (District Commissioner: North) |
| Road users | <ul style="list-style-type: none"> • Road users on Hume Street, Pacific Highway, Oxley Street, Clarke Lane and Clarke Street | |
| Residents and Businesses | | |
| Clarke Street | <ul style="list-style-type: none"> • 6-8 Clarke St - 54 commercial units (Strata Plus Pty Ltd) • 10-12 Clarke St - Lawson House, 4 levels of commercial offices including audio post production company Labsonics, and ground floor retail including Nebula Hair and Nectar Coffee House (Strata Committee) • 14-20 Clarke St - KTBR Business Centre, 4 levels of commercial offices including TSD Audio Production Studio and Awareness Institute (Precise Strata Management/ Owner) • 22-26 Clarke St – Wyndel Apartments, 36 residential units and holiday apartments, and ground floor retail (Owner) • 28-34 Clarke St - Oxley Corporate Centre, multi-storey commercial office block, 10 tenants including dance studio and a | |

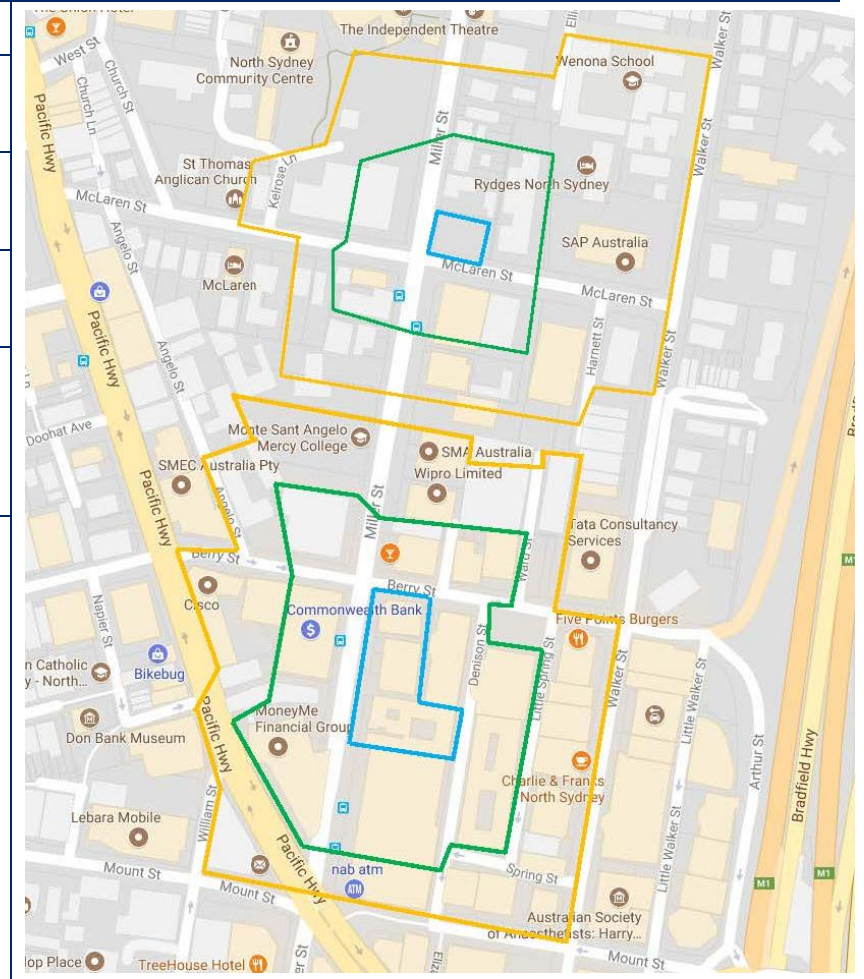
| Stakeholders | Special requirements |
|-----------------|--|
| | gym (Managing Agent: Prosper Group) <ul style="list-style-type: none"> • 11 Clarke St – double storey commercial, ground floor has 7 retail tenants (food, hair, massage) |
| Pacific Highway | <ul style="list-style-type: none"> • 545-553 Pacific Hwy – 95 residential apartments (Strata One/ Ralan Property Care) • 446-448 Pacific Hwy – Oasis Car Wash, site recently sold • 402-420 Pacific Hwy - Atrium Apartments, 77 residential apartments and ground floor retail Coco Republic and Arium (Strata Manager: Jameson Executive Committee, Building Manager: Atrium Apartments) • 400 Pacific Hwy – development site, future residential apartments and ground floor retail • 390 Pacific Hwy – commercial, Bad Backs (medical supply store) • 388 Pacific Hwy – commercial, Orson & Blake (furniture) • 382 Pacific Hwy – commercial, Sofa Studio • 380 Pacific Hwy – commercial, Vision personal training • 378 Pacific Hwy – commercial, De Rucci • 376 Pacific Hwy – commercial, Latex Bedding Co. • 374 Pacific Hwy – commercial, Hawks International Framing • 372 Pacific Hwy – commercial, Comfort & Fit • 370 Pacific Hwy – commercial, The Purple Corporation • 368 Pacific Hwy – commercial, Advance Mirrors • 360 Pacific Hwy – commercial including Sydney Side and Moss (Body Corporate Services) • 473-475 Pacific Hwy - ground floor retail (Oil Paintings Plus) with 4 residential units upstairs |
| Hume Street | <ul style="list-style-type: none"> • 36 Hume Street - Kelly's Place Children's Centre (Business owner) • 31-33 Hume St – Curves Gym and commercial offices • 35 Hume St – commercial offices including Ambient Psychology Services • 37-39 Hume St – commercial offices including Benchmark Sleep Services • 41 Hume St - Security Industry House |

| Stakeholders | Special requirements |
|--------------|---|
| Oxley Street | <ul style="list-style-type: none"><li data-bbox="443 256 1196 288">• 38 Oxley St – 4 storey commercial, Boat Books Australia<li data-bbox="443 296 2033 328">• 34-36 Oxley St – Northside Community Church & Northside Conference Centre and 38 residential (Precision Apartments) |

A.4 Victoria Cross sites

Table 10 Victoria Cross overview

| Item | Description |
|------------------------|---|
| Site name | <ul style="list-style-type: none"> Victoria Cross |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG Demolition works by Delta Group |
| Place Manager | <ul style="list-style-type: none"> Jonathan Lloyd (TfNSW until 31 July 2017) Heather Jackson (JHCPBG) |
| Start date | <ul style="list-style-type: none"> Victoria Cross South - April 2017 Victoria Cross North – November 2017* |
| Location | <ul style="list-style-type: none"> Victoria Cross South is bordered by Miller, Berry and Denison streets, North Sydney (and 105 Miller Street) Victoria Cross North is located at 50-52 McLaren Street, North Sydney (on the corner of Miller Street) |
| Notification key | <p> — Site boundary — 50m — 100m </p> |



| Item | Description |
|--------------------------------|---|
| Scope and timing of early work | <p>Victoria Cross South</p> <ul style="list-style-type: none"> • Minor works (Subject to minor works approval) • Demolition works from April 2017 <ul style="list-style-type: none"> – Service disconnections and temporary service establishment, 189 Miller awning demolition Site establishment – Hoarding installation – Strip out and Hazmat removal – Scaffold installation – Building demolition <p>Victoria Cross North (*subject to planning approval)</p> <ul style="list-style-type: none"> • Site establishment from November 2017 <ul style="list-style-type: none"> – Utility, heritage, geotechnical and contamination investigations – Relocation of existing utility services – Installation of environmental controls – Construction of noise walls and acoustic shed – Installation of site facilities • Removal of vegetation |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 11 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on adjacent residential and commercial buildings • Noise and vibration from night/emergency works affecting adjacent residential buildings • Noise and vibration from works affecting adjacent childcare centre (Victoria Cross South) • Noise and vibration effects on adjacent buildings including Wenona School, Rydges North Sydney (Victoria Cross North) • Construction traffic noise |
| Traffic and access | <ul style="list-style-type: none"> • Maintaining pedestrian access to adjacent buildings • Traffic modifications including signage changes to footpath and pedestrian diversions • Utility works affecting footpath access |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Issues salvaging contents from the heritage listed building to be demolished |

| Item | Description |
|---------------------|--|
| Business operations | <ul style="list-style-type: none"> • Demolition noise and dust impacting outdoor dining space at neighbouring businesses • Maintaining drop off/pick up location and loading zones for adjacent businesses • Potential for increased pests impacting properties due to demolition of adjacent buildings |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking construction site • Impact on visual amenity for outdoor dining spaces nearby to construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Cumulative traffic impacts from other construction sites in North Sydney (particularly on Denison Street and north of Miller Street where multiple residential developments are underway) |
| Landscape | <ul style="list-style-type: none"> • Protection of trees on Miller Street and McLaren Street |
| Health | <ul style="list-style-type: none"> • Concern from adjacent childcare regarding potential health risk to campus population from demolition noise, dust and hazardous materials removal (Victoria Cross north) |

Table 12 Stakeholders and community overview

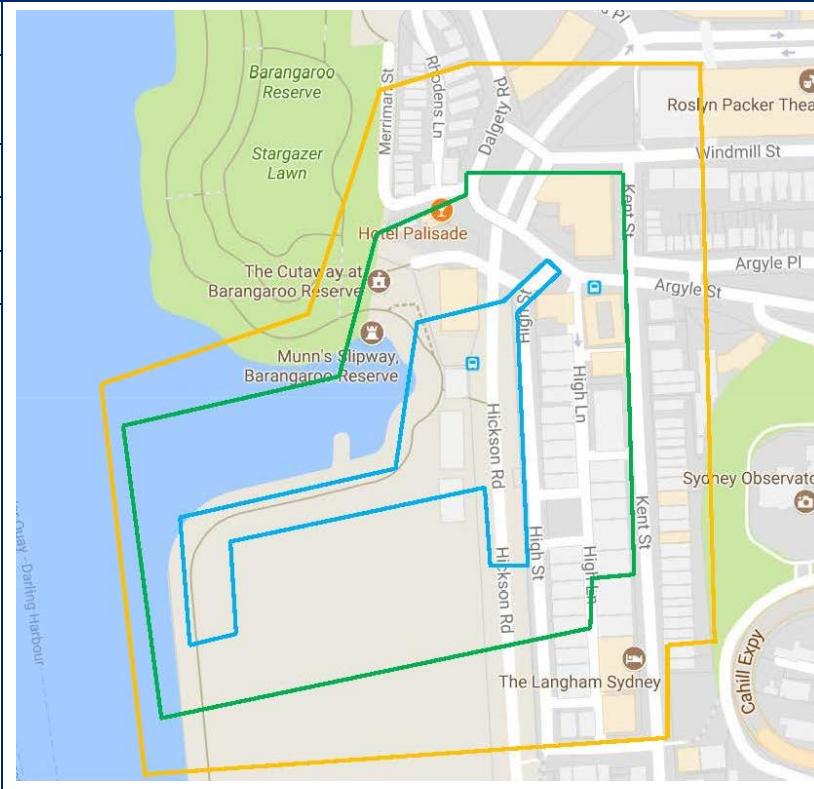
| Stakeholders | Special requirements |
|---------------------|---|
| Local council | <ul style="list-style-type: none"> • North Sydney Council |
| Local member | <ul style="list-style-type: none"> • Member for North Shore, Ms Felicity Wilson MP |
| Local groups | <ul style="list-style-type: none"> • Stanton Precinct Committee • Willoughby District Historical Society • North Shore Historical Society |
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation NSW TrainLink • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council |
| Senior stakeholders | <ul style="list-style-type: none"> • Wenona School • Monte Sant' Angelo Mercy College • The North Sydney Chamber of Commerce • Greater Sydney Commission (District Commissioner: North) |

| Stakeholders | | Special requirements |
|--------------------------|--|---|
| | <ul style="list-style-type: none"> • Mayor, North Sydney Council • Rydges Hotel • The Chevalier Family | <ul style="list-style-type: none"> • Aqualand Developments |
| Road users | <ul style="list-style-type: none"> • Road users on Berry Street, Miller Street, McLaren Street and Denison Street | |
| Residents and Businesses | | |
| Berry Street | <ul style="list-style-type: none"> • 53 Berry St – 7 storey commercial offices, ground floor retail (Chesterton International Australia) • 77-81 Berry St – Berry Square (29 retail shops) and Beaumonde Apartments (230) [Knight Frank] • 76 Berry St – 11 storey commercial office building (Knight Frank) • 66 Berry St – 7 storey commercial office building (Management Building Services) • 56 Berry St – Christie Corporate Centre, 15 storey commercial office building (Christie Corporate) • 50 Berry St – 14 storey commercial office building (Knight Frank) | |
| Miller Street | <ul style="list-style-type: none"> • 100 Miller St – Northpoint, 32 storey commercial office building plus 2 level retail arcade (Cromwell Property Group) • 116 Miller St - Vignette House, 8 storey commercial office building, ANZ and Commonwealth banks and retail on ground floor (Knight Frank) • 105-153 Miller St – MLC, 12 storey commercial office building plus ground floor retail (Investa) • 199 Miller St – Rag & Famish Hotel (Business owner) • 201 Miller St – McAfee , 23 stories including a data centre and medical practice in the Pavilion (Dexus Property Group) • 200 Miller Street – North Sydney Council Customer Service Centre • 234 Miller Street – Stanton Library • 269 Miller Street – The Independent Theatre | |
| McLaren Street | <ul style="list-style-type: none"> • 27 – 47 McLaren Street – residential and commercial properties • 54 McLaren Street – Rydges North Sydney | |

A.5 Barangaroo station site

Table 13 Site overview

| Item | Description |
|--------------------------------|--|
| Site name | <ul style="list-style-type: none"> Barangaroo station site |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG |
| Place Manager | <ul style="list-style-type: none"> Faye Rescigno |
| Start date | <ul style="list-style-type: none"> October 2017 |
| Location | <ul style="list-style-type: none"> Hickson Road (near Nawi Cove) |
| Notification key | <p> — Site boundary — 50m — 100m </p> |
| Scope and timing of early work | <ul style="list-style-type: none"> Early works from October 2017 <ul style="list-style-type: none"> Traffic changes and removal of parking on Hickson Road Protection of heritage wall along Hickson Road Removal of vegetation Site establishment activities including installation of environmental controls, installation of noise walls, relocation of |



| Item | Description |
|--------------------|---|
| | existing services, installation of site facilities |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 14 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on KU Lance Children’s Centre and surrounding residential and commercial properties |
| Traffic and access | <ul style="list-style-type: none"> • Traffic changes and loss of parking on Hickson Road • Heavy vehicle movements in the area • Pedestrian diversions and access to Barangaroo Reserve, The Cutaway, Wulugul Walk • Maintaining access during special events |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement on adjacent heritage buildings |
| Business operations | <ul style="list-style-type: none"> • Noise, vibration and dust impacts • Loss of parking on Hickson Road • Maintaining pedestrian access |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for residents, workers, visitors and tourists |
| Cumulative Impacts | <ul style="list-style-type: none"> • Construction works at Barangaroo South (including remediation and precinct reinstatement) and adjacent works at Barangaroo Central |

Table 15 Stakeholders and community overview

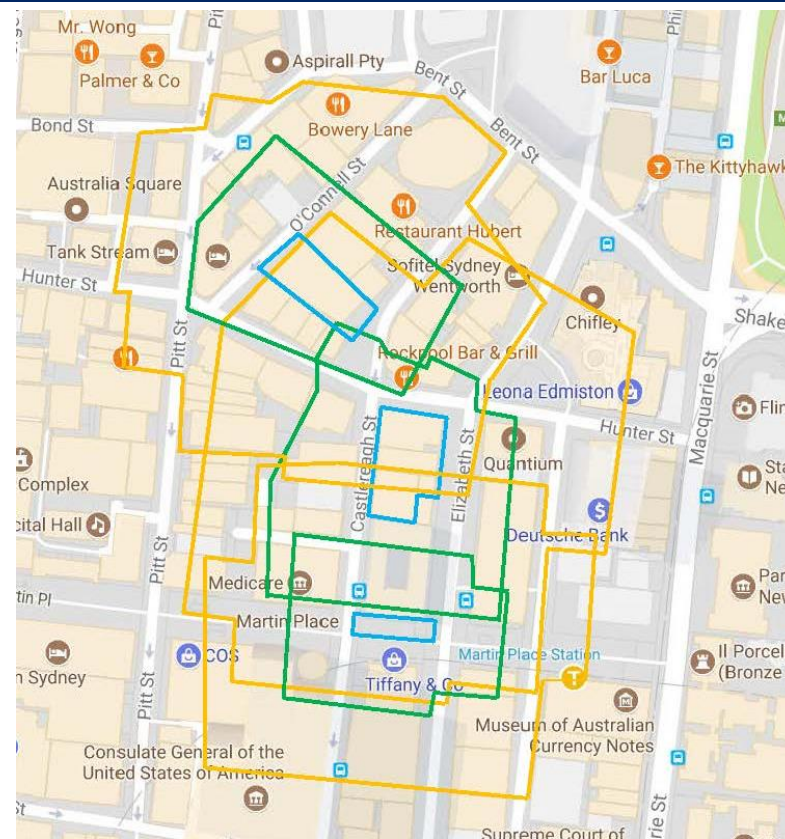
| Stakeholders | Special requirements | |
|---------------------------------|--|---|
| Local council | <ul style="list-style-type: none"> • City of Sydney | |
| Local member | <ul style="list-style-type: none"> • Mr Alex Greenwich MP – Member for Sydney | |
| Local groups | <ul style="list-style-type: none"> • Millers Point Community, Friends of the Hill, Walsh Bay Precinct Association | |
| Government agencies | <ul style="list-style-type: none"> • Barangaroo Delivery Authority • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council |
| Senior stakeholders | <ul style="list-style-type: none"> • Lord Mayor, City of Sydney Council • Sydney Business Chamber • Greater Sydney Commission (District Commissioner: Central) • Tourism Accommodation Australia • Committee for Sydney • Lend Lease | |
| Road users | <ul style="list-style-type: none"> • Road users on Hickson Road | |
| Residents and Businesses | | |
| Barangaroo South | <ul style="list-style-type: none"> • Retail, commercial and residential precinct | |
| Hickson Road | <ul style="list-style-type: none"> • Universal Pictures • Sydney Theatre Company • Mostly commercial properties | |
| High Street | <ul style="list-style-type: none"> • 37 High Street – KU Lance Children’s Centre • Mostly residential properties | |

| Stakeholders | Special requirements |
|-------------------|--|
| Merriman Street | <ul style="list-style-type: none"> • Residential properties |
| Bettington Street | <ul style="list-style-type: none"> • 35 Bettington Street – Hotel Palisade |
| Dalgety Road | <ul style="list-style-type: none"> • Residential properties |
| Towns Place | <ul style="list-style-type: none"> • Residential properties |
| Argyle Place | <ul style="list-style-type: none"> • Commercial properties |
| Kent Street | <ul style="list-style-type: none"> • 14 Kent Street – St Brigid’s Church • 33-35 Kent Street – Captain Cook Hotel • 89-113 Kent Street - The Langham Sydney • Residential properties |

A.6 Martin Place sites

Table 16 Martin Place overview

| Item | Description | |
|--------------------------------|--|---|
| Site name | <ul style="list-style-type: none"> • Martin Place | |
| Responsible contractor | <ul style="list-style-type: none"> • JHCPBG • Demolition works by Metropolitan Demolitions | |
| Place Manager | <ul style="list-style-type: none"> • Jonathan Lloyd (TfNSW until 31 July 2017) • Augusta Goldsmith | |
| Start date | <ul style="list-style-type: none"> • Martin Place North - May 2017 • Martin Place South – October 2017 • Bligh Street - October 2017 | |
| Location | <ul style="list-style-type: none"> • Martin Place North - bordered by Hunter, Castlereagh and Elizabeth streets, Sydney (and 50 Martin Place) • Martin Place South - 39 Martin Place (bordered by Castlereagh Street, Elizabeth Street and Martin Place) • Blight Street entrance - 33 Bligh Street (street frontages on Bligh Street and O'Connell Street) | |
| Notification key | <p>— Site boundary — 50m — 100m</p> | |
| Scope and timing of early work | <p>Martin Place North</p> <ul style="list-style-type: none"> – Demolition works from May 2017 – Site establishment – HAZMAT removal | <p>Martin Place South</p> <ul style="list-style-type: none"> • Demolition works from October 2017 – Site establishment |



| Item | Description |
|--------------------|--|
| | <ul style="list-style-type: none"> – Soft strip-out – Scaffold Structural demolition <p>Bligh Street</p> <ul style="list-style-type: none"> • Site establishment from October 2017 – Installation of environmental controls – Construction of temporary access – Relocation of existing services – Construction of noise wall and acoustic shed – Installation of site facilities |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 17 Potential issues

| Item | Description |
|---------------------|--|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on adjoining buildings • Noise and vibration from night/emergency works affecting nearby hotels and residential apartments (Medina Serviced Apartments, Sofitel Sydney Wentworth and Radisson Blu Plaza Hotel) |
| Traffic and access | <ul style="list-style-type: none"> • Temporary lane closures and traffic congestion impacting access to businesses around construction sites |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement on adjacent heritage buildings |
| Business operations | <ul style="list-style-type: none"> • Noise, vibration and dust impacts at 48 Martin Place (Macquarie Bank has events space and production studio, Commonwealth Bank has vibration sensitive vault) • Noise impacts at Channel 7 studios, NSW Ministry, Department of Premier and Cabinet and NSW Treasury at 52 Martin Place |

| Item | Description |
|--------------------|--|
| | <ul style="list-style-type: none"> • Loss of parking and loading zones • Maintaining pedestrian flows • Loss of amenity impacting on patronage at nearby cafés with outdoor seating |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • General disruption in the CBD and traffic implications due to light rail construction and nearby commercial demolition and construction projects |

Table 18 Stakeholders and community overview

| Stakeholders | Special requirements | | |
|--|---|--|---|
| Local council | <ul style="list-style-type: none"> • City of Sydney | | |
| Local member | <ul style="list-style-type: none"> • Mr Alex Greenwich MP – Member for Sydney | | |
| Local groups | <ul style="list-style-type: none"> • To be confirmed | | |
| Government agencies | <table border="0"> <tr> <td> <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation NSW TrainLink </td> <td> <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council </td> </tr> </table> | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council |
| <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council | | |
| Senior stakeholders | <ul style="list-style-type: none"> • Macquarie Bank • Network Seven • Lord Mayor, City of Sydney Council • Sydney Business Chamber • Greater Sydney Commission (District Commissioner: Central) • Tourism Accommodation Australia • Committee for Sydney | | |

| Stakeholders | Special requirements |
|--------------------------|---|
| | <ul style="list-style-type: none"> • Dexus • MLC Centre |
| Road users | <ul style="list-style-type: none"> • Road users on Elizabeth Street, Hunter Street, Castlereagh Street, Bligh Street and O’Connell Street |
| Residents and Businesses | |
| Martin Place | <ul style="list-style-type: none"> • 19-29 Martin Place – MLC Centre (67 floors of office space, food and retail precinct) • 38-46 Martin Pl – Henry Davis York Building, 12 storey commercial office building, tenants include Fairfax & Roberts Jewellers, Henry Davis York (Jones Lang Laselle) • 48 Martin Place – Savings Bank Building, Macquarie Bank and tenants Commonwealth Bank • 52 Martin Place – 35 storey office building, tenants include Channel 7 (Colliers International); Main offices for the NSW Ministry, Department of Premier and Cabinet and NSW Treasury |
| Castlereagh Street | <ul style="list-style-type: none"> • 17 Castlereagh St – Medibank House, 13 storey office building, ground floor tenant NIB Health Funds (D J Wear & Associates) • 15 Castlereagh St - City Freeholds House, 18 storey office building (City Freeholds) • 9 Castlereagh St – Castlereagh Centre, 31 storey office building, ground floor café The Naked Duck (Charter Hall Group) • 1 Castlereagh St – BHP Building, 25 storey office building, ground floor retail tenants City Convenience Store, Posh Printing, and Piccolo Me (Commercial Portfolio Management) • 60 Castlereagh Street - 20 storey retail and office building (Dexus) |
| Bligh Street | <ul style="list-style-type: none"> • 37 Bligh St – 13 storey office building with ground floor bar and food outlets including The Wolf wine bar (BCS Strata Management) |
| O’Connell Street | <ul style="list-style-type: none"> • 17 O’Connell Street – ELS Universal English College • 27 O’Connell Street – Radisson Blu Plaza Hotel • 28 – 34 O’Connell Street – Ground floor café with offices above |
| Hunter Street | <ul style="list-style-type: none"> • 40 – 56 Hunter Street – ground floor cafes with offices above • 60-66 Hunter St - City Mutual Building, 12 storey offices, tenants include Rockpool Restaurant & Bar and Spice Temple (Colliers International) |

| Stakeholders | Special requirements |
|----------------|--|
| Chifley Square | <ul style="list-style-type: none"> • 1 Chifley Sq – 16 storey office building including 3 levels of retail (Jones Lang Lasalle) • 2 Chifley Sq – Chifley Tower, 44 storey office building including retail arcade (Jones Lang Lasalle) • 8-12 Chifley Sq – 35 storey office building, ground floor retail tenants include Office of Hair and Flight Centre (Mirvac) |
| Phillip Street | <ul style="list-style-type: none"> • 61-101 Phillips St – Sofitel Sydney Wentworth 19 storey commercial hotel |
| Hosking Place | <ul style="list-style-type: none"> • 1-5 Hosking Pl – The Aston, 28-storey retail/residential/serviced apartment building (Medina Serviced Apartments) |

A.7 Pitt Street station sites

Table 19 Pitt Street overview

| Item | Description | |
|-------------------------------------|--|--|
| Site name | <ul style="list-style-type: none"> Pitt Street | |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG Demolition works by Delta Group | |
| Place Manager | <ul style="list-style-type: none"> Emily Smith (TfNSW until 31 July 2017) Glenda Hewitt | |
| Start date | <ul style="list-style-type: none"> Pitt Street North - April 2017 Pitt Street South - October 2017 | |
| Location | <ul style="list-style-type: none"> Pitt Street North - Site bordered by Castlereagh, Park and Pitt streets Pitt Street South - 300 - 302 Pitt Street and 125-135 Bathurst Street | |
| Notification key | <ul style="list-style-type: none"> Site boundary 50m 100m | |
| Scope and timing of minor and early | <p>Pitt Street North</p> <ul style="list-style-type: none"> Demolition works from April 2017 Service disconnections | <p>Pitt Street South</p> <ul style="list-style-type: none"> Demolition works from October 2017 |

| Item | Description |
|--------------------|---|
| works | <p>and temporary service establishment</p> <ul style="list-style-type: none"> - Site establishment - Awning demolition - Hoarding installation - Strip out and Hazmat removal - Scaffold installation - Building demolition |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 20 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on sensitive equipment used by businesses (e.g. jewellers) • Noise impacts on residential properties and hotels in close proximity to construction sites, particularly during out-of-hours works • Noise impacts on retail and open air dining environments • Construction traffic noise including deliveries and spoil truck movements • Noise disturbance during religious services |
| Traffic and access | <ul style="list-style-type: none"> • Increase in truck movements • Traffic modifications including signage changes to footpath and pedestrian diversions • Utility works affecting footpath access • Maintaining access to the City of Sydney Fire Station in Castlereagh Street |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Potential damage to heritage elements of the neighbouring property at 169-171 Castlereagh Street |
| Business | <ul style="list-style-type: none"> • Visibility of businesses signage at neighbouring properties |

| Item | Description |
|--------------------|---|
| operations | <ul style="list-style-type: none"> • Concern about health impacts to business staff and customers from dust • Changes to pedestrian patterns affecting walk-in trade |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for residents and businesses overlooking construction sites |
| Cumulative Impacts | <ul style="list-style-type: none"> • Relative proximity to Sydney Light Rail works on George Street • Perception that the CBD is a construction site affecting attractiveness of retail precincts |

Table 21 Stakeholders and community overview

| Stakeholders | Special requirements | | |
|---|--|---|---|
| Local council | <ul style="list-style-type: none"> • City of Sydney | | |
| Local member | <ul style="list-style-type: none"> • Mr Alex Greenwich MP – Member for Sydney | | |
| Local groups | <ul style="list-style-type: none"> • CityRAGS | | |
| Government agencies | <table border="0"> <tr> <td> <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage Australian Rail Track Corporation NSW TrainLink </td> <td> <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council </td> </tr> </table> | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage Australian Rail Track Corporation NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council |
| <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage Australian Rail Track Corporation NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council | | |
| Senior stakeholders | <ul style="list-style-type: none"> • Sydney Business Chamber • NSW Property Council • Tourism and Transport Forum • Greater Sydney Commission (District Commissioner: Maria Atkinson AM) • Lord Mayor, City of Sydney • Greater Sydney Commission (District Commissioner: Central) • Fire and Rescue NSW | | |
| Educational | <ul style="list-style-type: none"> • The Great Synagogue – 166 Castlereagh Street | | |

| Stakeholders | Special requirements |
|---------------------------------|---|
| and religious institutions | <ul style="list-style-type: none"> • Church of Scientologists – 201 Castlereagh Street • Pitt Street Uniting Church – 264A Pitt Street |
| Road users | <ul style="list-style-type: none"> • Road users on Castlereagh, Pitt, Park and Bathurst streets |
| Residents and Businesses | |
| Castlereagh Street | <ul style="list-style-type: none"> • 133 - Piccadilly Tower, commercial building, 31 floors • 151 - commercial building, 13 floors • 155 - Citisite House, commercial building, 14 floors – Strata contact: Body Corporate Services • 160 - (also 185 Elizabeth Street) Commercial building, 12 floors. Commercial tenants are primarily health practitioners, jewellers and legal firms. Retail tenants include Bambini Café Restaurant and Frost Antiques. – Property management contact: Jones Lang Lasalle • 161 & 167 (also 242 Pitt Street), commercial building (50 floors), commercial building (6 floors), and retail arcade. Commercial tenants are primarily financial, legal, consulting and media companies. Retail tenants include, Officeworks, Pablo and Rusty's, Scotch & Soda and The Local Bar - Property management contact: Liberty Place Management. • 169 - Castlereagh Boutique Hotel and retail premises including Pie Face and Hyde Park Jewellery • 197-199 - Victoria Tower, 36 floors, 250 apartments • 211-217 Castlereagh Street – City of Sydney Fire Station |
| Park Street | <ul style="list-style-type: none"> • 2 - Citigroup Centre, commercial building, 41 floors • 5-7 – Hotel Coronation • 27 - Park Regis Apartments, 28 floors and Centre Hotel, 9 floors • 50 - Commercial building, 12 floors. Commercial tenants are primarily legal and consulting firms. Retail tenant is Clueless International – Property management contact: Jones Lang Lasalle • 54 - Commercial building, 12 floors. Commercial tenant is Bauer Media Group. Retail tenants are Bambini on Park Espresso, Fifty Four Park St Health and Wellbeing Club, Hinkley's Diamonds and Renya Xydis – Property management contact: Jones Lang Lasalle • 60 – Commercial building, 13 floors |
| Pitt Street | <ul style="list-style-type: none"> • 210 - Piccadilly Shopping Centre |

| Stakeholders | Special requirements |
|------------------|--|
| | <ul style="list-style-type: none"> • 250 - Ashington Place, commercial building, 12 floors. Commercial tenants are primarily jewellers and legal firms. Retail tenants include City Convenience Store, Café Lido, Big Bite, CBD Bakery, Kais Jewellery, Remedial Massage Clinic, Kosmos Espresso Café, Deluxe Cleaners and Sydney Camera House – Property Management contact: Sydney Building Management, Strata contact: Change Strata • 255 - Hilton Sydney • 262 - Pilgrim House, commercial building, 6 floors – Property Management contact: Uniting Church • 260 Pitt Street – Criterion Hotel • 303-305 Pitt Street – Commercial building, 8 floors – Property Management contact: Tim Green Commercial • 295-301 Pitt Street – Commercial building, 8 floors – Property Management contact: Brookfield Multiplex • 294 Pitt Street – The Edinburgh Castle • 304–308 Pitt Street – Princeton 41 storey residential tower • 339 Pitt Street – Primus Hotel Sydney |
| Bathurst Street | <ul style="list-style-type: none"> • 137-139 Bathurst Street – Eurotower residential apartments |
| Elizabeth Street | <ul style="list-style-type: none"> • 145-171 - Sheraton on the Park • 179 - commercial building, 21 floors – Property Management Contact: Jones Lang Lasalle • 201 - commercial building, 42 floors – Property Management Contact: Colliers |

A.8 Sydney Yard Access Bridge site

Table 22 Site overview

| Item | Description | |
|--------------------------------|---|--|
| Site name | <ul style="list-style-type: none"> Sydney Yard Access Bridge | |
| Responsible contractor | <ul style="list-style-type: none"> Laing O'Rourke | |
| Place Manager | <ul style="list-style-type: none"> Robin Baird | |
| Start date | <ul style="list-style-type: none"> 29 April 2017 | |
| Location | <ul style="list-style-type: none"> Zone SY - Sydney Yard within Central Station Zone RS - between 54 - 66 Regent Street Zone MS - between Mortuary Station and Zone RS | |
| Notification key | <p>— Site boundary — 50m — 100m</p> | |
| Scope and timing of early work | <ul style="list-style-type: none"> Site establishment (April – June 2017) <ul style="list-style-type: none"> Fencing and hording Establishment of hard stand and laydown areas Demolition (Zone RS only - June – August 2017) Bridge construction enabling works (June – August 2017) <ul style="list-style-type: none"> Piling for abutments, piers, and Tower Crane | <ul style="list-style-type: none"> Track work (OOH mid-week possessions) Over-head wire removal (OOH mid-week possessions) Signalling works (OOH mid-week and weekend possessions) Utility relocations along Regent Street (August – Q2 2018 - OOH works) Bridge construction (August– Q2 2018) |
| Construction hours | <ul style="list-style-type: none"> Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved | |

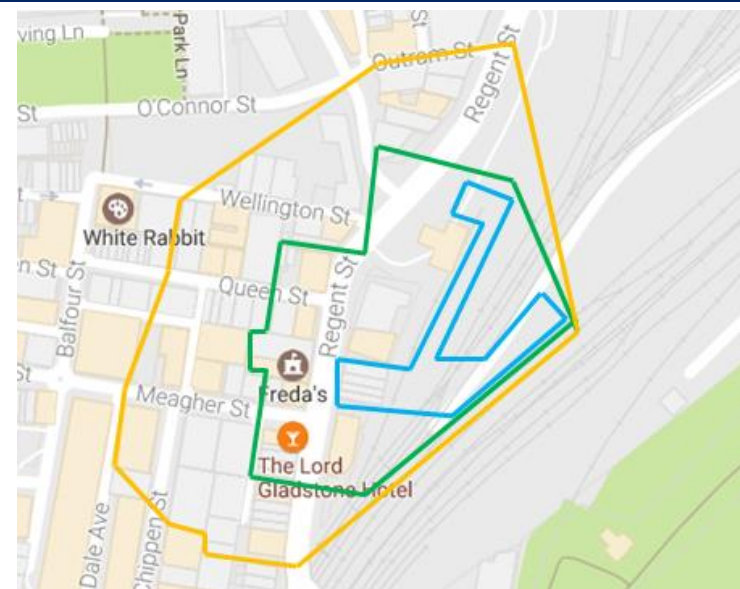


Table 23 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on neighbouring residential apartments during demolition and piling works • Noise and vibration from utility relocation night works along Regent Street • Potential for high noise generating activities to occur concurrently during daytime and out-of-hour periods (piling and service relocation works) |
| Light | <ul style="list-style-type: none"> • Lighting for OOH possession works in the rail corridor may impact on adjoining residential properties |
| Traffic and access | <ul style="list-style-type: none"> • Maintaining access for adjoining properties during service relocation works • Traffic modifications including signage changes to footpath and pedestrian diversions during demolition and service relocation works |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement |
| Business operations | <ul style="list-style-type: none"> • Loss of customer parking • Concern about health impacts to business staff and customers from dust • Changes to pedestrian patterns affecting walk-in trade |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Substation construction works in the rail corridor to the north and east are considered to have negligible cumulative impact |

Table 24 Stakeholders and community overview

| Stakeholders | Special requirements |
|---------------|--|
| Local council | <ul style="list-style-type: none"> • City of Sydney |
| Local member | <ul style="list-style-type: none"> • Ms Jenny Leong MP – Member for Newtown |
| Local groups | <ul style="list-style-type: none"> • Chippendale Residents Interest Group • East Chippendale Community Group |

| Stakeholders Special requirements | | |
|-----------------------------------|--|---|
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Transport for NSW • Australian Rail Track Corporation | <ul style="list-style-type: none"> • NSW TrainLink • Sydney Trains • Sydney Water • Ausgrid • Heritage Council |
| Senior stakeholders | <ul style="list-style-type: none"> • Lord Mayor, City of Sydney • Sydney Business Chamber • NSW Property Council | <ul style="list-style-type: none"> • Tourism and Transport Forum • Tourism Accommodation Australia (TAA) • Greater Sydney Commission (District Commissioner: Central) |
| Road users | <ul style="list-style-type: none"> • Road users on Regent and Meagher streets | |
| Residents and Businesses | | |
| Regent Street | <ul style="list-style-type: none"> • 52 – 41 residential apartments • 54 – 17 residential apartments • 61-65 – residential apartments • 55 – residential apartments • 87-97 - Hello Fresh, Continuity, Beautiful Burgers Café, City Furniture, and Remifa Music Studio • 99 Regent Street – Elders Real Estate Sydney City South • 101 Regent Street – Aust Corp Constructions • 105 Regent Street – Dunwood Recruitment • 107 Regent Street – We Are Social • 109 Regent Street – Fredas Restaurant and Houzz Furniture and event space • 113-115 Regent Street – Café Ideas | <ul style="list-style-type: none"> • 117– Lord Gladstone Hotel • 123 – commercial property • 125 – commercial property • 127 – commercial property • 129 – commercial property • 131 – commercial property • 133 – commercial property • 135 – commercial property • 137 - The Haymarket Centre, temporary accommodation provider for the homeless • 139 – residential apartments |

| Stakeholders | Special requirements | |
|-------------------|--|---|
| Queen Street | <ul style="list-style-type: none"> • 15 - residential apartments • 19 - residential apartments • 21 - residential apartments • 23 - residential apartments • 24 – commercial property | <ul style="list-style-type: none"> • 26 – commercial property • 28 – commercial property • 34 – commercial property • 35 - residential apartments • 27 – 13 residential apartments |
| Wellington Street | <ul style="list-style-type: none"> • 20 - Wellington Street Projects | |
| Chippen Street | <ul style="list-style-type: none"> • 16 - commercial property • 36 – commercial property | <ul style="list-style-type: none"> • 23 – commercial property • 43 – commercial property |
| Meagher Street | <ul style="list-style-type: none"> • 42 - commercial property • 44 – commercial property | <ul style="list-style-type: none"> • 52 – commercial • 25 – commercial |

A.9 Central station site

Table 25 Site overview

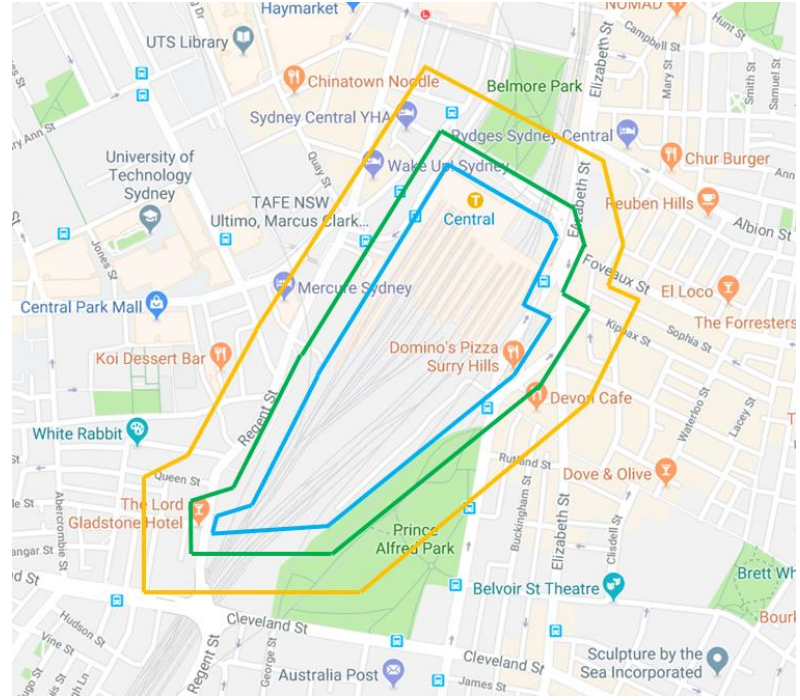
| Item | Description | |
|--------------------------------|---|---|
| Site name | <ul style="list-style-type: none"> Central Station | |
| Responsible contractor | <ul style="list-style-type: none"> Laing O'Rourke | |
| Place Manager | <ul style="list-style-type: none"> Nikolai Morozow (LORAC) | |
| Start date | <ul style="list-style-type: none"> 21 April 2018 | |
| Location | <ul style="list-style-type: none"> The station is located within the existing Central Station precinct below intercity rail service platforms 13, 14 and 15. Site access is via Eddy Avenue and Regent Street. | |
| Notification key | <p>— Site boundary — 50m — 200m</p> |  |
| Scope and timing of early work | <ul style="list-style-type: none"> Minor works (Subject to Minor Works Approval) Site establishment (April – June 2018) <ul style="list-style-type: none"> – Site investigations and surveys – Utility relocations | <ul style="list-style-type: none"> – Rail systems modifications / removal – Vegetation clearing <p>Installation of site environmental management and traffic controls</p> |
| Construction hours | <ul style="list-style-type: none"> Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved Sydney Trains scheduled possession times: xx | |

Table 26 Potential issues

| Item | Description |
|---------------------|--|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration effects on neighbouring residential apartments during demolition and piling works • Noise and vibration from utility relocation night works along Regent Street • Potential for high noise generating activities to occur concurrently during daytime and out-of-hour periods (piling and service relocation works) • Potential for high noise generating activities occurring out-of-hours, including: Establishment of work sites; Site investigations; Relocation of existing utility services; Adjustment or removal of existing rail infrastructure (tracks, signalling and communication routes) within the rail corridor; Installation of containment for rail systems, including signalling, high voltage and communications. |
| Light | <ul style="list-style-type: none"> • Lighting for OOH possession works in the rail corridor may impact on adjoining residential properties |
| Traffic and access | <ul style="list-style-type: none"> • Maintaining access for adjoining properties during service relocation works • Traffic modifications including signage changes to footpath and pedestrian diversions during demolition and service relocation works • Increase in truck movements • Additional traffic including large vehicles on surrounding streets |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Dust |
| Business operations | <ul style="list-style-type: none"> • Loss of customer parking • Concern about health impacts to business staff and customers from dust • Changes to pedestrian patterns affecting walk-in trade |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking construction site • Impact on visual amenity for customers / commuters overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Substation construction works in the rail corridor to the north and east are considered to have negligible cumulative impact • Sydney Light Rail on Chalmers St |

Table 27 Stakeholders and community overview

| Stakeholders | | Special requirements |
|--------------------------|--|--|
| Local council | <ul style="list-style-type: none"> • City of Sydney | |
| Local member | <ul style="list-style-type: none"> • Ms Jenny Leong MP – Member for Newtown | |
| Local groups | <ul style="list-style-type: none"> • Chippendale Residents Interest Group | <ul style="list-style-type: none"> • East Chippendale Community Group |
| Government agencies | <ul style="list-style-type: none"> • Sydney Trains • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Transport for NSW • Australian Rail Track Corporation | <ul style="list-style-type: none"> • NSW TrainLink • Sydney Water • Heritage Council • NSW Police • NSW Health • Government Architect NSW • Sydney Light Rail |
| Senior stakeholders | <ul style="list-style-type: none"> • Lord Mayor, City of Sydney • Sydney Business Chamber • NSW Property Council • Infrastructure NSW • Committee for Sydney • Committee for Economic Development of Australia | <ul style="list-style-type: none"> • Tourism and Transport Forum • Infrastructure Partnerships Australia • Greater Sydney Commission (District Commissioner: Central) |
| Road users | <ul style="list-style-type: none"> • Road users on Regent, Randle Streets and Eddy Ave | |
| Residents and Businesses | | |
| Regent Street | <ul style="list-style-type: none"> • See SYAB list on Table 24 | |
| Central Station | <ul style="list-style-type: none"> • Retail tenants managed by CI International | |
| Chalmers Street | <ul style="list-style-type: none"> • 2 – Sydney Dental Hospital • 30-34 – commercial and residential apartments | <ul style="list-style-type: none"> • 100 – commercial property • 136 – commercial property |

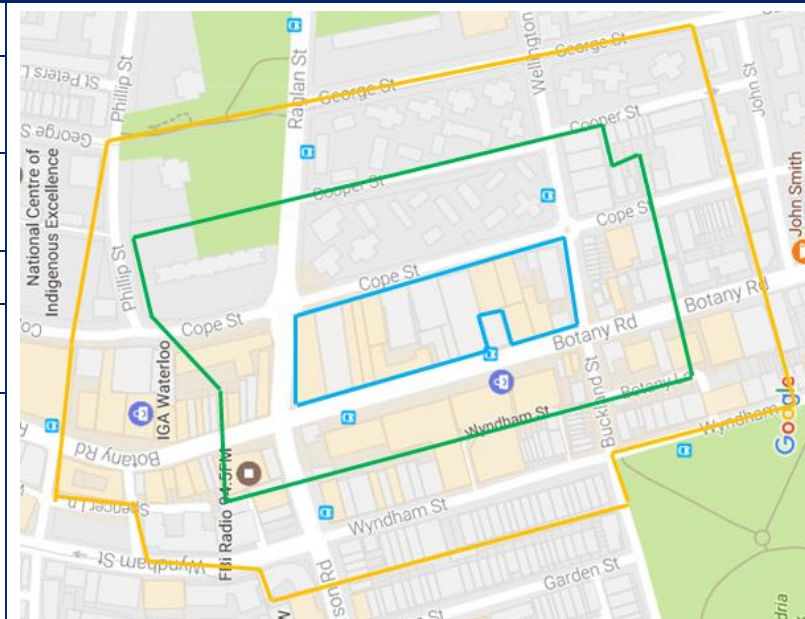
| Stakeholders | Special requirements | |
|-------------------|--|---|
| | <ul style="list-style-type: none"> • 38 – commercial and residential apartments • 86 – commercial property | <ul style="list-style-type: none"> • 142-144 – Welsh Presbyterian Church |
| Randle Street | <ul style="list-style-type: none"> • 1-5 – residential apartments • 7 – commercial property • 11- commercial property | <ul style="list-style-type: none"> • 15 – commercial property • 17 – commercial property |
| Elizabeth Street | <ul style="list-style-type: none"> • 300 – commercial property • 302-306 – commercial property • 308 – commercial property • 310 – commercial property • 314 – commercial property • 316 – commercial property • 324 – Aurora Hotel • 330 – commercial property • 342 – commercial property | <ul style="list-style-type: none"> • 354 – commercial property • 358 – commercial property • 360 – Evening Star Hotel • 372 – commercial property • 362 – commercial property • 401 – commercial property • 403 – commercial property • 405 – commercial property |
| Terry Street | <ul style="list-style-type: none"> • 29 – residential property • 25 – residential property • 21 – residential property | <ul style="list-style-type: none"> • 17 – residential property • 15 – residential property |
| Foveaux Street | <ul style="list-style-type: none"> • 17 – commercial property | |
| Kippax Street | <ul style="list-style-type: none"> • 8 – commercial property | |
| Devonshire Street | <ul style="list-style-type: none"> • 52 – Madison Hotel • 56 – commercial property • 64 – commercial property • 68 – commercial property • 70 – commercial property | <ul style="list-style-type: none"> • 74 – commercial property • 76 – commercial property • 78 – commercial property • 84 – commercial property • 90 – commercial property |

| Stakeholders | Special requirements | |
|---------------|--|---|
| | <ul style="list-style-type: none"> • 72 – commercial property | <ul style="list-style-type: none"> • 92 – commercial property |
| Lee Street | <ul style="list-style-type: none"> • 12-14 – commercial property • 18 Lee Street – commercial property • 20-24 Lee Street – commercial property | <ul style="list-style-type: none"> • 8-10 – Sydney Railway Square YHA • 8 – Adina Hotel |
| Pitt Street | <ul style="list-style-type: none"> • 470 – commercial property • 477 – commercial property • 478 – Christ Church • 482 – commercial property | <ul style="list-style-type: none"> • 484 – commercial property • 490 – commercial property • 505 – commercial property • 509 – Wake Up! Sydney Hotel |
| George Street | <ul style="list-style-type: none"> • 790 – 790 on George Backpackers • 800 – commercial property • 802 – commercial property • 804 – commercial property • 806 – commercial property • 808 – commercial property | <ul style="list-style-type: none"> • 810 – commercial property • 812 – commercial property • 814 – commercial property • 816 – commercial property • 818-820 – Mercure Hotel |
| Rawson Place | <ul style="list-style-type: none"> • 11 – Sydney Central YHA | <ul style="list-style-type: none"> • 2-24 – commercial property |

A.10 Waterloo station site

Table 28 Site overview

| Item | Description | |
|---|--|--|
| Site name | <ul style="list-style-type: none"> Waterloo | |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG Demolition works by Delta Group | |
| Place Manager | <ul style="list-style-type: none"> Michael Lloyd (TfNSW until 31 July 2017) Faye Rescigno | |
| Start date | <ul style="list-style-type: none"> June 2017 (subject to minor works approval) | |
| Location | <ul style="list-style-type: none"> The site is bound by Raglan, Wellington and Cope streets and Botany Road, Waterloo (excluding 103 Botany Road) | |
| Notification key | <ul style="list-style-type: none"> Site boundary 50m 100m | |
| Scope and timing of minor and early works | <ul style="list-style-type: none"> Minor works (Subject to Minor Works Approval) Demolition works from June 2017 <ul style="list-style-type: none"> Service disconnections and temporary service establishment Site establishment Awning demolition Hoarding installation Strip out and Hazmat removal | <ul style="list-style-type: none"> Site establishment from November 2017 <ul style="list-style-type: none"> Utility, heritage, geotechnical and contamination investigations Relocation of existing utility services Installation of noise walls and environmental controls Installation of site facilities Removal of vegetation |



| Item | Description |
|--------------------|---|
| | – Building demolition |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 29 Potential issues

| Item | Description |
|---------------------|--|
| Noise and vibration | <ul style="list-style-type: none"> • Noise impacts on surrounding residential areas, including the Waterloo social housing estate • Noise impacts on surrounding businesses Construction traffic noise including deliveries and spoil truck movements • Noise and vibration from night works • Noise disturbance during religious services |
| Traffic and access | <ul style="list-style-type: none"> • Increase in truck movements • Traffic modifications including signage, changes to footpath and pedestrian diversions |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement • Potential damage to heritage elements of the neighbouring property at 103 Botany Road |
| Business operations | <ul style="list-style-type: none"> • Concern about health impacts to business staff and customers from dust • Maintaining on-street parking for customers and staff • Loss of customer base from removal commercial/residential properties |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for residents and businesses overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Nil |

Table 30 Stakeholders and community overview

| Stakeholders | Special requirements |
|---------------|--|
| Local council | <ul style="list-style-type: none"> • City of Sydney |

| Stakeholders Special requirements | | |
|-------------------------------------|--|--|
| Local member | <ul style="list-style-type: none"> • Mr Ron Hoenig MP, Member for Heron • Ms Jenny Leong MP, Member for Newtown | |
| Local groups and community services | <ul style="list-style-type: none"> • RedWatch • Counterpoint Community Services | <ul style="list-style-type: none"> • Alexandria Residents Action Group |
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Family and Community Services (FACS) • Australian Rail Track Corporation | <ul style="list-style-type: none"> • NSW TrainLink • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council |
| Senior stakeholders | <ul style="list-style-type: none"> • Lord Mayor, City of Sydney • Sydney Business Chamber | <ul style="list-style-type: none"> • NSW Property Council • Greater Sydney Commission (District Commissioner: Central) |
| Religious | <ul style="list-style-type: none"> • Waterloo Congregational Church – 103 Botany Road | |
| Educational | <ul style="list-style-type: none"> • Sydney Film School - 82 Cope Street | |
| Road users | <ul style="list-style-type: none"> • Road users on Cope, Regent, Raglan, Buckland, Wellington streets and Henderson and Botany roads | |
| Residents and Businesses | | |
| Cooper Street | <ul style="list-style-type: none"> • 95 – 3 Storey apartment block (Housing NSW) • 93 – 3 Storey apartment block (Housing NSW) | <ul style="list-style-type: none"> • 91 – 3 Storey apartment block (Housing NSW) • 89 – 3 Storey apartment block (Housing NSW) |
| Wellington Street | <ul style="list-style-type: none"> • 136, 134, 132, 130, 128, 126, 124, 122 – residential homes • 116 Wellington Street – Vental (Blinds) | <ul style="list-style-type: none"> • 117 – 3 Storey apartment block (Housing NSW) • 123 – 3 Storey apartment block (Housing NSW) |
| Cope Street | <ul style="list-style-type: none"> • 92-110 – 59 Apartments, strata contact: Strata Title Management | <ul style="list-style-type: none"> • 237 – Apartments • 233 – Apartments |

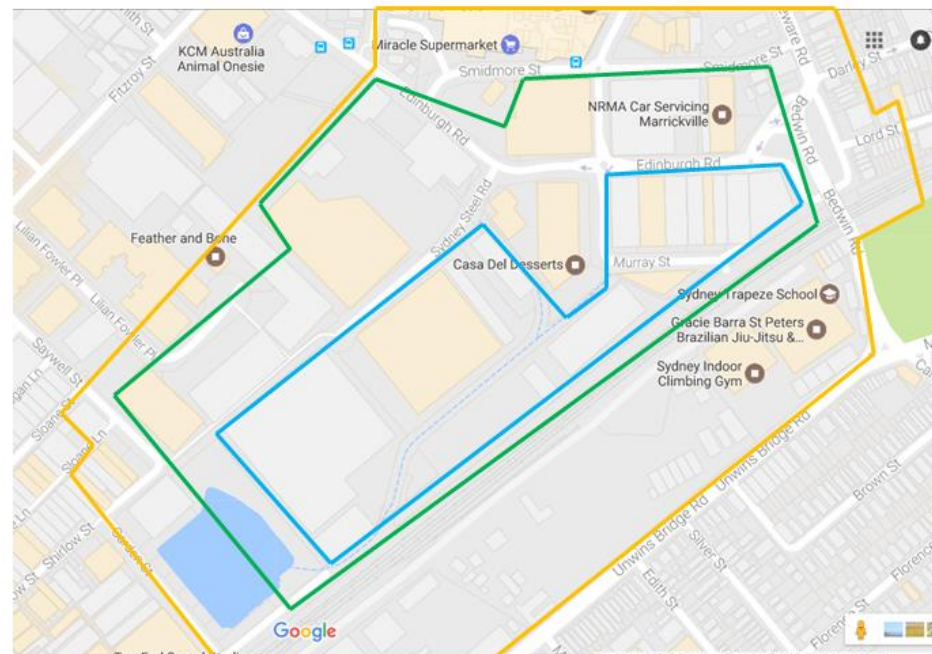
| Stakeholders | Special requirements | |
|----------------|---|--|
| | <ul style="list-style-type: none"> • 149 – 20 storey apartment block (Housing NSW) • 176-178 Cope Street – Office National • 180 – Apartments • 184 – Apartments • 186 – Apartments • 190, 192, 194, 196, 229, 225 – residential homes | <ul style="list-style-type: none"> • 209 – 3 Storey apartment block (Housing NSW) • 213– 3 Storey apartment block (Housing NSW) • 215 – 3 Storey apartment block (Housing NSW) • 217– 3 Storey apartment block (Housing NSW) • 219 – 3 Storey apartment block (Housing NSW) |
| Raglan Street | <ul style="list-style-type: none"> • 125 Raglan Street – Convenience Store • 104 – 3 Storey apartment block (Housing NSW) | <ul style="list-style-type: none"> • 129 Raglan Street – Ragland Café |
| Botany Road | <ul style="list-style-type: none"> • 23 - Waterloo Family Medical Centre • 43 – 3 Apartments • 41A, 127, 123 – residential homes • 41 Botany Road – Waterloo Discount • 43 Botany Road – Kirbys Pharmacy • 45-47 Botany Road – Abbots Hotel and Bottle shop • Shop 6/44-54 Botany Road – Proexhibit (photographic studio) • Shop 4/44-54 Botany Road – Blanco Negro • Shop 1/44-54 Botany Road – FBi Radio • 56 – 12 Apartments • 60 Botany Road (upstairs) – Wholebox'n'dice (promotions) • 62-72 – 44 Apartments • 72 Botany Road – Yum Yai Thai • 100 Botany Road – No Quarter Gym | <ul style="list-style-type: none"> • 100 Botany Road (upstairs) – The Aurora Project • 108 Botany Road – Allans Music • Shop 1/110 Botany Road – 99 Bikes • Shop 2/110 Botany Road – Sunbeam Factory Outlet • 123 Botany Road – Cauliflower Hotel • 130 Botany Road – Dream Girl Massage • 132 Botany Road – Mr Toast (café) • Shop 1/138 Botany Road – AMS (vet) • Dens in Dente (Dentist) - Shop 2/138 Botany Road • Shop 3/138 Botany Road – Made in Apparel (Screen printing) • 138 – 10 Apartments • 13-21 – IGA Supermarket • 23-27, 29, 29A, 22, 28-30, 32, 34, 36, 40, 42 – retail stores |
| Henderson Road | <ul style="list-style-type: none"> • 1/3 Henderson Road – Attaquer Cycling • 5- Henderson Road – The Front (AV hire wirehouse) | <ul style="list-style-type: none"> • 8 – 10 Apartments • 10 - 10 Apartments |

| Stakeholders | Special requirements | |
|-----------------|---|---|
| | <ul style="list-style-type: none"> • 7 - Residential development site | <ul style="list-style-type: none"> • 12 - Lord Raglan Hotel |
| Buckland Street | <ul style="list-style-type: none"> • 1, 3, 7, 9, 11, 13, 15, 17, 19, 21, 8 – residential homes | <ul style="list-style-type: none"> • 23 - Sydney Fine Food Co. |
| Whyndam Street | <ul style="list-style-type: none"> • 111, 113, 115, 118, 120, 124 – residential homes | |

A.11 Marrickville dive site

Table 31 Site overview

| Item | Description | |
|--------------------------------|---|--|
| Site name | <ul style="list-style-type: none"> Marrickville Dive Site | |
| Responsible contractor | <ul style="list-style-type: none"> JHCPBG Demolition works by Delta Group | |
| Place Manager | <ul style="list-style-type: none"> Emily Smith (TfNSW until 31 July 2017) Faye Rescigno | |
| Start date | <ul style="list-style-type: none"> June 2017 | |
| Location | <ul style="list-style-type: none"> The site is bound by Sydney Steel and Edinburgh roads, and the rail corridor, Marrickville (and the Sydney Water Stormwater Retention Basin) | |
| Notification key | <p> — Site boundary — 50m — 100m </p> | |
| Scope and timing of early work | <ul style="list-style-type: none"> Minor works (Subject to Minor Works Approval) Demolition works from June 2017 <ul style="list-style-type: none"> Service disconnections and temporary service establishment Site establishment Hoarding installation Strip out and Hazmat removal | <ul style="list-style-type: none"> Site establishment from October 2017 <ul style="list-style-type: none"> Utility, heritage, geotechnical and contamination investigations Relocation of existing utility services Installation of noise walls and environmental controls Construction of haul roads and offices on site Vegetation clearing |



| Item | Description |
|--------------------|---|
| | <ul style="list-style-type: none"> – Building demolition – Minor earthworks for precast works area |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 32 Potential issues

| Item | Description |
|---------------------|--|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration disturbance of local businesses and residents • Construction traffic noise including deliveries and spoil truck movements |
| Traffic and access | <ul style="list-style-type: none"> • Maintaining large vehicle access to 92-110 Edinburgh Road during demolition • Traffic modifications including signage changes to footpath and pedestrian diversions during utility relocations |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement (considered to negligible) |
| Business operations | <ul style="list-style-type: none"> • Concern about health impacts to business staff, customers and operations from dust • Maintaining on-street parking for customers and staff • Maintaining power and water supply to local businesses during utility relocations |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Relative proximity to WestConnex construction site on the southern side of Unwins Bridge |

Table 33 Stakeholders and community overview

| Stakeholders | Special requirements |
|---------------|--|
| Local council | <ul style="list-style-type: none"> • Inner West Council |
| Local member | <ul style="list-style-type: none"> • Ms Jo Haylen, Member for Summer Hill |

| Stakeholders | Special requirements | |
|--------------------------|--|---|
| | <ul style="list-style-type: none"> • Ms Jenny Leong, Member for Newtown • Mr Ron Hoenig, Member for Heffron | |
| Local groups | <ul style="list-style-type: none"> • WestConnex Action Group | |
| Government agencies | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council |
| Senior stakeholders | <ul style="list-style-type: none"> • Mayor, Inner West Council • NSW Property Council | <ul style="list-style-type: none"> • Marrickville Chamber of commerce |
| Education | <ul style="list-style-type: none"> • St Pius Catholic Primary School Enmore (209 Edgeware Road) | |
| Road users | <ul style="list-style-type: none"> • Road users on Edinburgh Road and Murray Street | |
| Residents and Businesses | | |
| Edgeware Road | <ul style="list-style-type: none"> • 344 – 12 Apartments • 360 – 7 Apartments • 290 – Only About Children Enmore Campus (childcare centre) • 358, 356, 354, 352, 350, 338, 336, 334, 332, 330, 328, 326, 324, 322, 320, 318 – Residential houses | |
| Edinburgh Road | <ul style="list-style-type: none"> • 1-3 – Metro Service Centre • 11 – JD Smash Repairs • 11A – Metro Storage • 13 – Premier Northpak (Logistics) • 74 – distribution and logistics (Bacchus Wine, Citymove, G&K Transport, Heli Guy, Tender Liquor, The Wine Point, United Cellars, Echosmart Fire, Dairy Farmers (LION)) • U1/102-110 – Rutledge Engineering | |

| Stakeholders | Special requirements |
|---------------------|---|
| | <ul style="list-style-type: none"> • U3/102-110 – Nice Products • U4/102-110 – Printportal • U5/102-110 – Finepoint Building Group • U7/102-110 - Casa Del Australia (Food production) • U9/102-110 – Sunnyfield disAbility Services • U10/102-110 – R+M Builders • U16/102-110 – Science Press • U17/102-110 – Universal Flooring • U18/102-110 – Inner West Gymnastics • U19/102-110 – Signlite (Signage manufacture) |
| Smidmore Street | <ul style="list-style-type: none"> • 54 – NRMA Car Servicing |
| Unwins Bridge Road | <ul style="list-style-type: none"> • 1-7 – commercial units • 17-19 – commercial units |
| Lilian Fowler Place | <ul style="list-style-type: none"> • Dock 1, 18 – Simone Logue (Food distribution) • Dock 2, 18 – Styletex (distribution) • Dock 3, 18 – Afford (disability employment) • Dock 4, 18 – Hong Kong Dim Sim (Food distribution) • 16 – Eccosit Industries • Unit 1 / 10-14 – Robco Products (warehousing) • 26 – Spotpress (printing) • 8 – commercial units • 28-30 – commercial units |
| Victoria Road | <ul style="list-style-type: none"> • 34 - Marrickville Metro Shopping Centre |

A.12 Sydenham Station and Junction site

Table 34 Site overview

| Item | Description | |
|--------------------------------|--|---|
| Site name | Sydenham Station | |
| Responsible contractor | <ul style="list-style-type: none"> JHLOR | |
| Place Manager | <ul style="list-style-type: none"> Sanjin Muhic | |
| Start date | <ul style="list-style-type: none"> February 2018 – Q3 2018 | |
| Location | <ul style="list-style-type: none"> The site is bound by Gleeson Ave, Burrows Road and Railway Parade Sydenham | |
| Notification key | <ul style="list-style-type: none"> — Site boundary — 50m — 100m | |
| Scope and timing of early work | <p>Minor works (Subject to Minor Works Approval)</p> <ul style="list-style-type: none"> Utility, heritage, geotechnical and contamination investigations <ul style="list-style-type: none"> – Site establishment – Site inspection and survey works – Hoarding installation | <ul style="list-style-type: none"> Site establishment from February 2018 <ul style="list-style-type: none"> – Heritage investigations, protection and archival recordings – Installation of site environment management and traffic controls – Establishment of construction sites – Installation of power supply, water and other utilities to construction sites and other area within the construction work area (whether temporary or permanent supplies) |



| Item | Description |
|--------------------|--|
| | <ul style="list-style-type: none"> - Adjustment, modification and protection of utilities and services - Adjustment or removal of existing rail infrastructure (tracks, signalling, communication routes etc.) within the rail corridor - Installation of containment for rail systems, including signalling, high voltage and Communications - Vegetation clearance as required |
| Construction hours | <ul style="list-style-type: none"> • Standard Hours: 7am to 6pm Monday to Friday and 8am to 1pm Saturdays or as otherwise approved |

Table 35 Potential issues

| Item | Description |
|---------------------|---|
| Noise and vibration | <ul style="list-style-type: none"> • Noise and vibration disturbance of local businesses and residents • Construction traffic noise |
| Traffic and access | <ul style="list-style-type: none"> • Traffic modifications including signage changes to footpath and pedestrian diversions during utility relocations • Half road closures of Gleeson Avenue overbridge during weekends and night works |
| Heritage impacts | <ul style="list-style-type: none"> • There are a number of heritage structures within the project footprint including Sydenham Station and the Sydenham Pit and Pump Station. Intrusive works will occur outside the curtilage of these structures |
| Residential impacts | <ul style="list-style-type: none"> • There are a number of residential properties located in the vicinity of the project area. These properties may be sensitive to excessive noise and work hours |
| Property impacts | <ul style="list-style-type: none"> • Potential effects of vibration and settlement (considered to negligible) |
| Business operations | <ul style="list-style-type: none"> • Concern about health impacts to business staff, customers and operations from dust • Maintaining on-street parking for customers and staff |

| Item | Description |
|--------------------|--|
| | <ul style="list-style-type: none"> • Maintaining power and water supply to local businesses during utility relocations |
| Visual amenity | <ul style="list-style-type: none"> • Impact on visual amenity for businesses overlooking construction site |
| Cumulative Impacts | <ul style="list-style-type: none"> • Sydney Metro City & Southwest Sydenham to Bankstown Upgrade (2018-24) • Sydney Metro City and Southwest Marrickville Dive Site (Tunnelling and Station Excavation Contractor works) • WestConnex Stage 2: New M5-Beverley Hills to St Peters (2015-19) • WestConnex Stage 3: M4-M5 link (2019-23) |

Table 36 Stakeholders and community overview

| Stakeholders | Special requirements | | |
|---|---|---|--|
| Local council | <ul style="list-style-type: none"> • Inner West Council | | |
| Local member | <ul style="list-style-type: none"> • Mr Ron Hoenig, Member for Heffron • Ms Jenny Leong, Member for Newtown • Ms Joanna Hill, Member for Summer Hill | | |
| Local groups | <ul style="list-style-type: none"> • Saving our trees • Sydenham to Bankstown Alliance • Facebook: Tempe 2020 | | |
| Government agencies | <table border="0"> <tr> <td> <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation • NSW TrainLink </td> <td> <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council • Sydney Airport • Greater Sydney Commission </td> </tr> </table> | <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation • NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council • Sydney Airport • Greater Sydney Commission |
| <ul style="list-style-type: none"> • Sydney Coordination Office • Roads and Maritime Services • Department of Planning and Environment • Office of Environment and Heritage • Australian Rail Track Corporation • NSW TrainLink | <ul style="list-style-type: none"> • Sydney Trains • Transport for NSW • Sydney Water • Ausgrid • Heritage Council • Sydney Airport • Greater Sydney Commission | | |
| Senior stakeholders | <ul style="list-style-type: none"> • Mayor, Inner West Council | | |

| Stakeholders | Special requirements | |
|--------------------------|--|--|
| Education | <ul style="list-style-type: none"> • Tempe High School, Unwins Bridge Rd, Tempe NSW 2044 • Tempe Public School, Unwins Bridge Rd, St Peters NSW 2044 | |
| Road users | <ul style="list-style-type: none"> • Road users on Railway Parade, Sydenham Road, Burrows Avenue, Gleeson Avenue, Hogan Avenue and Bolton Street • Other motorists, pedestrians, cyclists, bus users in streets surrounding the project site | |
| Residents and Businesses | | |
| Barclay Street | <ul style="list-style-type: none"> • 1-17 – TBC | |
| Bolton Street | <ul style="list-style-type: none"> • 1 – Commercial, Art Apparel • Units 1-8, 2 – Commercial, various (some unoccupied) • (Driveway at the end of Bolton Street has businesses located within it) | |
| Buckley Street | <ul style="list-style-type: none"> • 3-54 – Mixed use | |
| Burrows Avenue | <ul style="list-style-type: none"> • 4 – Commercial, Steam Espresso • 6 - Residential | <ul style="list-style-type: none"> • 136 – Residential |
| Calvert Street | <ul style="list-style-type: none"> • 2-36 – Residential | |
| Council Street | <ul style="list-style-type: none"> • 7-19 – Residential | |
| Darley Street | <ul style="list-style-type: none"> • 98-177 | |
| Edgware Road | <ul style="list-style-type: none"> • 330 – 346 – Mixed use | |
| Edinburgh Road | <ul style="list-style-type: none"> • 2-30 – Mixed use | |
| Garden Street | <ul style="list-style-type: none"> • 2 – Commercial, Anything Theming • 4 – Commercial, Revolution Electronic Services • 6 – Commercial, Advanced Chemicals | <ul style="list-style-type: none"> • 18-22 – Commercial • 2/39 – Commercial • 30 – Commercial |

| | | |
|-------------------|---|--|
| George Street | <ul style="list-style-type: none"> • 112 – Commercial, Air Naval Facility • 114-134 – Residential (114 and 116 under construction) | |
| Gerald Street | <ul style="list-style-type: none"> • 1-23 – Commercial | |
| Gleeson Avenue | <ul style="list-style-type: none"> • 3 – Commercial, Sydenham Kebabs • 5 – Commercial, Spots & Arrows • 7 – Commercial, Hendriks Sweet Art | <ul style="list-style-type: none"> • 9 (including 9a and 11) – Commercial, The Tin Horn • 13 (units 1-6 and 11) - Residential |
| Hillcrest Lane | <ul style="list-style-type: none"> • 24 – Residential | |
| Hillcrest Street | <ul style="list-style-type: none"> • 1-33 – Residential | |
| Hogan Avenue | <ul style="list-style-type: none"> • 2-30 – Residential • 3-5 – Commercial, Barbanera’s Prestige Smash Repairs | <ul style="list-style-type: none"> • 9 – Commercial, City Automotive Repairs |
| Leslie Street | <ul style="list-style-type: none"> • 2-8 – Residential | |
| Lord Street | <ul style="list-style-type: none"> • 97-188 – Residential | |
| May Street | <ul style="list-style-type: none"> • 62-138 – Mixed use | |
| Marrickville Road | <ul style="list-style-type: none"> • 19-71 – Mixed use • 19 – Commercial, VPB Productions • 21-29 – Commercial, Rallis Timber • 33-35 – Commercial, Di Lorenzo Café | <ul style="list-style-type: none"> • 100 – Commercial, Fraser Park Football Club • Marrickville Rd & Railway Parade – Commercial, Camelot Lounge (entrance on Marrickville Rd, stage entrance on Railway Parade) |
| Maude Lane | <ul style="list-style-type: none"> • 1-29 - Commercial | |
| May Street | <ul style="list-style-type: none"> • 64-138 – Mixed use | |
| Meeks Lane | <ul style="list-style-type: none"> • 75-127 – Residential | |
| Meeks Road | <ul style="list-style-type: none"> • 70-143 - Mixed use | |
| Murray Street | <ul style="list-style-type: none"> • 15 – Commercial | |
| Myrtle Street | <ul style="list-style-type: none"> • 1-24 – Mixed use | |

| | | |
|-------------------|--|--|
| Queen Street | <ul style="list-style-type: none"> • 1-35 – Mixed use | |
| Railway Parade | <ul style="list-style-type: none"> • 1/55 – Commercial, Industrie Clothing • 57 – Commercial, Speak Out Ltd • 59 , Commercial, P & V Meats and Small Goods • 61-63 – Commercial • 65A – Commercial, Pipel Fine Foods • 69 – Commercial, In Style Apparel • 71 – Commercial, Pegasus Supply Solutions • 75-77 – Commercial • 79 – Commercial, AES Australian Enviro Services | <ul style="list-style-type: none"> • 81 – Commercial, Alfamotive • 83 – Commercial, QQI Trading • 85-87 – Commercial, Promo Screen • 85-87 – Commercial, MIYO Australia • 89 – Commercial • 91 – Commercial, Rose Graphics Pty Ltd/Art Patterns • 1/93 – Commercial • 95-101 – Commercial, Monti |
| Railway Road | <ul style="list-style-type: none"> • 82-110 Residential • 103-115 Residential | <ul style="list-style-type: none"> • 103 – Commercial, Sydney City Auto Care |
| Shirlow Street | <ul style="list-style-type: none"> • 1-37 - Commercial | |
| Sloane Street | <ul style="list-style-type: none"> • 1-34 – Commercial | |
| Swain Street | <ul style="list-style-type: none"> • 1-11 – Residential • 2-18 – Residential | <ul style="list-style-type: none"> • 11 – Commercial • 20 – Commercial, The General Gordon Hotel |
| Sydenham Road | <ul style="list-style-type: none"> • 39-63 - Commercial • 1/1-11 – Commercial, Australia Music Group | <ul style="list-style-type: none"> • 1 – Commercial, Blackline Hire Stage Systems |
| Sydney Steel Road | <ul style="list-style-type: none"> • 1A-1C - Commercial | |
| Sydney Street | <ul style="list-style-type: none"> • 1-54 – Commercial | |

| | | |
|--------------------|---|---|
| Unwins Bridge Road | <ul style="list-style-type: none"> • 1-117 – Mixed use • 3C/1-7 – Commercial, Gracie Barra St Peters Brazilian Jiu-Jitsu & Self Defence • 1A 7/1 – Commercial, Temple & Webster Corporate Head Office • 1/7 – Commercial, Sydney Trapeze School • 7/19 – Commercial, Video Security Products • 8/19 – Commercial, Liquor Emporium • 11/19 – Commercial, Fit n Fast St Peters | <ul style="list-style-type: none"> • 17/19 – Commercial, St Peters Fruit World • 25 – Commercial, The Action Acting Academy • 27 – Commercial, Mars Repairs • 31 – Commercial, All Wheels Rental • 31 – Commercial, Payless Fuel • 39 – Commercial, Sydenham Library • 47 – Commercial, Bonds Outlet, Sydenham |
| Victoria Road | <ul style="list-style-type: none"> • 326 – 384, Mixed use | |
| Way Street | <ul style="list-style-type: none"> • 1 – 24 – Mixed use | |
| Wilkinson Lane | <ul style="list-style-type: none"> • 24-51 – Commercial | |
| Wilkinson Place | <ul style="list-style-type: none"> • 1 – Commercial | |
| Wright Street | <ul style="list-style-type: none"> • 5 - Residential | |

Appendix B Environmental Representative endorsement letter



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Mr Stuart Hodgson
Director
Program Sustainability Environment & Planning
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

20 April 2018

Ref: 170108_EWCCS R4

Dear Stuart

RE: Endorsement of Sydney Metro Early Works Community Communications Strategy Revision 04

Thank you for providing the following documents for Environmental Representative (ER) review and endorsement as required by the Condition of Approval A24 (d) of the Sydney Metro City & Southwest project (SSI – 15_7400 January 9 2017).

- Sydney Metro City & Southwest Early Works Community Communications Strategy (Rev 3.0, 28 January 2018). This was updated to include additional early work scope items for Central Station works.

As an approved ER for the Sydney Metro City & Southwest project, I have reviewed and provided comment on this document and now consider it appropriate for implementation for managing community information, consultation and involvement for the Early Works component of the Sydney Metro City & Southwest project.

Yours sincerely

A handwritten signature in black ink, appearing to read "Jo Robertson".

Jo Robertson
Environmental Representative – Sydney Metro – City and South West

Sydney Metro Unexpected Heritage Finds Procedure

Supporting Document – Applicable to:

Status:

Division:

Version: 1.4

Date of issue: 19/04/2018

Effective date:

Review date: 22/03/2019

Document owner:

Security classification:

Document History

| Version | Date of approval | Doc. Control no. | Notes |
|---------|------------------|------------------|--|
| 1.1 | | | Incorporates ER comments 21/06/17 |
| 1.2 | | | Amends p13 step 8 reference to s146 added |
| 1.3 | | | Incorporates Planning Mods 1-4 including amended CoA E20 |
| 1.4 | | | Incorporates ER comments 21/03/18 |

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1. Purpose

This procedure is applicable only to the Sydney Metro Critical State Significant Infrastructure Planning Approval (CSSI 15_7400) including the following planning approval modifications:

Modification 1- Victoria Cross Substation and Artarmon Substation which involves relocation of the Victoria Cross northern services building from 194-196A Miller Street to 50 McLaren Street together with inclusion of a new station entrance at this location referred to as Victoria Cross North. 52 McLaren Street would also be used to support construction of these works. The modification also involves the relocation of the substation at Artarmon from Butchers Lane to 98 – 104 Reserve Road. This modification application was approved on 18 October 2017;

- Modification 2- Central Walk which involves additional works at Central Railway Station including construction of a new eastern concourse, a new eastern entry, and upgrades to suburban platforms. This modification application was approved on 21 December 2017;

- Modification 3- Martin Place Metro Station which involves changes to the Sydney Metro Martin Place Station to align with the Unsolicited Proposal by Macquarie Group Limited (Macquarie) for the development of the station precinct. The proposed modification involves a larger reconfigured station layout, provision of a new unpaid concourse link and retention of the existing MLC pedestrian link and works to connect into the Sydney Metro Martin Place Station. It is noted that if the Macquarie proposal does not proceed, the modification (if approved) would be surrendered. This modification application was approved on 22 March 2018; and

- Modification 4- Sydenham Station and Metro Train Facility which incorporated Sydenham Station and precinct works, the Sydney Metro Trains Facility South, works to Sydney Water's Sydenham Pit and Drainage Pumping Station and ancillary infrastructure and track and signalling works into the approved project. This modification application was approved on 13 December 2017

This procedure has been developed in response to Condition of Approval (CoA) E19, that requires Sydney Metro City & Southwest Program to provide a method for managing unexpected heritage items (both Aboriginal and non-Aboriginal) that are discovered during construction.

An 'unexpected heritage find' can be defined as any unanticipated archaeological discovery, that has not been previously assessed or is not covered by an existing approval under the *Heritage Act 1977* (Heritage Act) or *National Parks and Wildlife Act 1974* (NPW Act).

In NSW, there are strict laws to protect and manage heritage objects and relics. As a result, appropriate heritage management measures need to be implemented to minimise impacts on heritage values; ensure compliance with relevant heritage notification and other obligations; and to minimise the risk of penalties to individuals, TfNSW and its contractors. This procedure includes TfNSW's heritage notification obligations under the Heritage Act, NPW

Act and the Coroner's Act 2009 and the specific requirements of the conditions of approval(CoA) issued by NSW Department of Planning and Environment for CSSI 15-7400.

Note that a Contractor may create their own Unexpected Finds Procedure or modify this document, however its use will be subject to compliance with the following:-

- CSSI CoA E17 requires consultation with the Heritage Council of NSW (or its delegate)
- CSSI CoA E19
- Prior approval from the nominated Excavation Director, as required under CSSI CoA E18
- Prior approval from the Environmental Representative, CSSI CoA A24

- Prior approval from Sydney Metro.

It should be noted that this procedure must be read in conjunction with the relevant CCSI conditionals of approval, the contract documents and other plans and procedures developed by the contractor during the delivery of the works.

Legislation that does not apply

The following authorisations are not required for Sydney Metro approved Critical State significant infrastructure (and accordingly the provisions of any Act that prohibit an activity without such an authority do not apply):

- Division 8 of Part 6 of the *Heritage Act 1977* does not apply to prevent or interfere with the carrying out of approved State significant infrastructure.
- An approval under Part 4, or an excavation permit under section 139, of the *Heritage Act 1977*,
- An Aboriginal heritage impact permit under section 90 of the *National Parks and Wildlife Act 1974*,

This document provides relevant background information in Section 3, followed by the technical procedure in Sections 6 and 7. Associated guidance referred to in the procedure can be found in Appendices A-H.

2. Scope

Despite appropriate and adequate investigation, unexpected heritage items may still be discovered during maintenance and construction works on a Sydney Metro site. When this happens, this procedure must be followed. This procedure provides direction on when to stop work, where to seek technical advice and how to notify the regulator, if required.

This procedure applies to construction activities for the Sydney Metro Program as approved under Section 115ZB of the Environmental Planning and Assessment Act 1979 for Critical State Significant Infrastructure, Application No. SSI 15-7400.

This procedure **applies to**:

- the discovery of any unexpected heritage item, relic or object, where the find is not anticipated in the Archaeological Assessment Design Report (AARD) or Archaeological Method Statements (AMS) that are prepared prior to commencement of excavation.

This procedure must be followed by all Sydney Metro staff, contractors, subcontractors or any person undertaking works for Sydney Metro. It includes references to some of the relevant legislative and regulatory requirements, but is not intended to replace them with the exception S139 of the NSW Heritage Act 1977

This procedure **does not apply** to:

- The discovery and disturbance of heritage items as a result of investigations being undertaken in accordance with the Office of Environment and Heritage's (OEH) *Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW 2010*¹; an Aboriginal Heritage Impact Permit (AHIP) issued under the NPW Act; or an approval issued under the Heritage Act.
- the discovery and disturbance of heritage items as a result of construction related activities, where the disturbance is permissible in accordance with an AHIP; or an approval issued under the Heritage Act; All new Construction Environment Management Plans (CEMPs) must make reference to and/or include this procedure (included as a heritage sub-plan, refer to CSSI CoA C6(g)).

Note that this procedure does not supersede the requirements of CSSI CoA CSSI CoA E10 and E26:

- E10 The Proponent must not destroy, modify or otherwise physically affect any Heritage item not identified in documents referred to in CoA A 1.
- E26 This approval does not allow the Proponent to harm, modify, or otherwise impact human remains uncovered during the construction and operation of the CSSI, except in accordance with the Exhumation Management Plan (CoA E27).

¹ An act carried out in accordance with the *Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW* as published by the Department in the Gazette on 24 September 2010 is excluded from the definition of **harm** an object or place in section 5 (1) of the NPW Act.

3. Definitions

All terminology in this procedure is taken to mean the generally accepted or dictionary definition with the exception of the following terms which have a specifically defined meaning:

| Term | Meaning |
|--|--|
| AHIP | Aboriginal Heritage Impact Permit |
| Aboriginal object | An Aboriginal object is any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains. An Aboriginal object may include a shell midden, stone tools, bones, rock art, Aboriginal-built fences and stockyards, scarred trees and the remains of fringe camps. |
| CEMP | Construction Environmental Management Plan |
| CoA | Conditions of Approval |
| CSSI | Critical State Significant Infrastructure |
| EP&A Act | NSW <i>Environmental Planning and Assessment Act 1979</i> |
| Heritage Act | NSW <i>Heritage Act 1977</i> |
| NPW Act | NSW <i>National Parks and Wildlife Act 1974</i> |
| OEH | Office of Environment and Heritage |
| Relic (non-Aboriginal heritage) | <p>A relic means any deposit, artefact, object or material evidence that:</p> <ul style="list-style-type: none"> a) relates to the settlement of the area that comprises NSW, not being Aboriginal settlement, and b) is of State significance. <p>A relic may include items such as bottles, utensils, remnants of clothing, crockery, personal effects, tools, machinery and domestic or industrial refuse.</p> <p>Note that Modification 2 amends the previous definition of a relic, being the same as described in the NSW <i>Heritage Act 1977</i>, by deleting all reference to local heritage significance. For the purpose managing relics under the CSSI 15_7400 Planning Approval CoA E20 applies to relics of State significance only.</p> |
| TfNSW | Transport for New South Wales |

| Term | Meaning |
|---------------------------------------|--|
| Work (non-Aboriginal heritage) | Archaeological features such as historic utilities or buried infrastructure that provide evidence of prior occupations such as former rail or tram tracks, timber sleepers, kerbing, historic road pavement, fences, culverts, historic pavement, buried retaining walls, cisterns, conduits, sheds or building foundations, but are subject to specific assessment by the Excavation Director |

4. Accountabilities

5. Types of unexpected heritage items and corresponding statutory protections

The roles of project, field and environmental personnel (including construction contractors) are critical to the early identification and protection of unexpected heritage items. **Appendix A** illustrates the wide range of heritage discoveries found on transport infrastructure projects and provides a useful photographic guide. Subsequent to confirmation of a heritage discovery it must then be identified and assessed by Excavation Director as required under CSSI CoA E20. An 'unexpected heritage item' means any unanticipated discovery of an actual or potential heritage item, for which Sydney Metro (refer to CSSI CoA E10 and E26) does not have approval to disturb² and/or have an existing management process in place.

These discoveries are categorised as either:

- (a) Aboriginal objects
- (b) historic (non-Aboriginal) heritage items
- (c) human skeletal remains.

The relevant legislation that applies to each of these categories is described below and is also addressed in the Sydney Metro Exhumation Management Plan (refer to CSSI CoA E26 and E27).

5.1. Aboriginal objects

The NPW Act protects Aboriginal objects which are defined as:

“any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales,

² Disturbance is considered to be any physical interference with the item that results in it being destroyed, defaced, damaged, harmed, impacted or altered in any way (this includes archaeological investigation activities).

being habitation before or concurrent with (or both) the occupation of that area by persons of non Aboriginal extraction, and includes Aboriginal remains³.

Examples of Aboriginal objects include stone tool artefacts, shell middens, axe grinding grooves, pigment or engraved rock art, burials and scarred trees.

IMPORTANT!**All Aboriginal objects, regardless of significance, are protected under law.**

If any impact is expected to an Aboriginal object, an AHIP is usually required from OE⁴. Also, when a person becomes aware of an Aboriginal object they must notify the Director-General of OE⁵ about its location⁵. Assistance on how to do this is provided in Section 7 (Step 5).

CSSI CoA E23, E24 and E25 for management of Aboriginal Heritage Applies to the Sydney Metro Chatswood to Sydenham Project

5.2. Historic heritage items

Historic (non-Aboriginal) heritage items may include:

- archaeological 'relics'
- other historic items (i.e. works, structures, buildings or movable objects).

5.2.1. Archaeological relics

The Heritage Act protects *relics* which are defined as:

"any deposit, artefact, object or material evidence that relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and is of State or local heritage significance"⁶.

Changes to CoA E20 included within Planning Modification 1 (Oct 2017) deleted reference *local heritage significance*, so that E20 applies to relics of State significance only.

Relics are archaeological items of local or state significance which may relate to past domestic, industrial or agricultural activities in NSW, and can include bottles, remnants of clothing, pottery, building materials and general refuse.

³ Section 5(1) NPW Act.

⁴ Refer to CSSI CoA E23 & E25.

⁵ This is required under section 89(A) of the NPW Act and applies to all TfNSW projects.

⁶ Section 4(1) Heritage Act.

Construction in the vicinity of a relic, of State significance, must not recommence until the requirements of the ARMP have been implemented, in consultation with the Excavation Director. The Sydney Metro must notify the Secretary of the Department of Environment & Planning in writing of the outcome of consultation with the Heritage Council of NSW, refer to CSSI CoA E20.

IMPORTANT!

All relics are subject to statutory controls and protections.

If a relic is likely to be disturbed, a heritage approval is usually required from the NSW Heritage Council⁷. Also, when a person discovers a relic they must notify the NSW Heritage Council of its location⁸. Advice on how to do this for works under CSSI 15_7400 is provided in Section 7 (Step 5).

5.2.2. Other historic items

Some historic heritage items are not considered to be 'relics'; but are instead referred to as works, buildings, structures or movable objects. Examples of these items that may be encountered include culverts, historic pavements, retaining walls, tramlines, rail tracks, timber sleepers, cisterns, fences, sheds, buildings and conduits. Although an approval under the Heritage Act may not be required to disturb these items, their discovery must be managed in accordance with this procedure.

As a general rule, an archaeological relic requires discovery or examination through the act of excavation. An archaeological excavation permit under section 140 of the Heritage Act is required to do this. In contrast, 'other historic items' either exist above the ground surface (e.g. a shed), or they are designed to operate and exist beneath the ground surface (e.g. a culvert).

Despite this difference, it should be remembered that relics can often be associated with 'other heritage items', such as archaeological deposits within cisterns and underfloor deposits beneath buildings.

5.3. Human skeletal remains

Refer to Sydney Metro Project Exhumation Management Plan

⁷Refer to CSSI CoA E20,

⁸ This is required under section 146 of the Heritage Act and applies to all TfNSW projects however also refer to foot note 8.

Human skeletal remains can be identified as either an Aboriginal object or non-Aboriginal relic depending on ancestry of the individual (Aboriginal or non-Aboriginal) and burial context (archaeological or non-archaeological). Remains are considered to be archaeological when the time elapsed since death is suspected of being 100 years or more. Depending on ancestry and context, different legislation applies.

As a simple example, a pre-European settlement archaeological Aboriginal burial would be protected under the NPW Act, while a historic (non-Aboriginal) archaeological burial within a cemetery would be protected under the Heritage Act. For a non-Aboriginal archaeological burial, the relevant heritage approval and notification requirement described in Section 3.1 would apply. In addition to the NPW Act, finding Aboriginal human remains also triggers notification requirements to the Commonwealth Minister for the Environment under section 20(1) of the Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth).

IMPORTANT!

All human skeletal remains are subject to statutory controls and protections.

All bones must be treated as potential human skeletal remains and work around them must stop while they are protected and investigated urgently.

However, where it is suspected that less than 100 years has elapsed since death, the human skeletal remains come under the jurisdiction of the State Coroner and the *Coroners Act 2009* (NSW). Such a case would be considered a 'reportable death' and under legal notification obligations set out in section 35(2); a person must report the death to a police officer, a coroner or an assistant coroner as soon as possible. This applies to all human remains less than 100 years old⁹ regardless of ancestry (i.e. both Aboriginal and non-Aboriginal remains). Public health controls may also apply.

Guidance on what to do when suspected human remains are found is provided in **Appendix E**.

6. Legislative Requirements

Table 1 identifies some of the relevant legislation/regulations for the protection of heritage and the management of unexpected heritage finds in NSW. It should be noted that significant penalties exist for breaches of the listed legislation as a result of actions that relate to unauthorised impacts on heritage items. Further, it is noted that heritage that has been

⁹ Under section 19 of the *Coroners Act 2009*, the coroner has no jurisdiction to conduct an inquest into reportable death unless it appears to the coroner that (or that there is reasonable cause to suspect that) the death or suspected death occurred within the last 100 years.

assessed and is being managed in accordance with relevant statutory approvals(s) is exempt from these offences.

To avoid breaches of legislation, it is important that Sydney Metro and its contractors are aware of their statutory obligations under relevant legislation and that appropriate control measures are in place to ensure that unexpected heritage items are appropriately managed during construction. Contractors/Alliances will need to ensure that they undertake their own due diligence to identify any other legislative requirements that may apply for a given project.

CSSI CoA E10 applies to unexpected finds, so that all relevant legislation will apply to heritage items not identified in documents referred to CoA A1.

Table 1 Legislation and guidelines for management of unexpected heritage finds

| Relevant Requirement | Objectives and offences |
|---|---|
| <i>Environmental Planning and Assessment Act 1979 (EP&A Act)</i> | Section 115ZB Giving of approval by Minister to carry out a project. |
| <i>Environmental Planning and Assessment Act 1979 (EP&A Act)</i> | <p>Requires heritage to be considered within the environmental impact assessment of projects.</p> <p>This guideline is based on the premise that an appropriate level of Aboriginal and non-Aboriginal cultural heritage assessment and investigations and mitigation have already been undertaken under the relevant legislation, including the EP&A Act, during the assessment and determination process. It also assumes that appropriate mitigation measures have been included in the conditions of any approval.</p> |
| <i>Heritage Act 1977 (Heritage Act)</i> | <p>The Heritage Act provides for the care, protection and management of heritage items in NSW.</p> <p>Under section 139, it is an offence to disturb or excavate any land knowing or having reasonable cause to suspect that the disturbance or excavation will or is likely to result in a relic being discovered, exposed, moved, damaged or destroyed, unless the disturbance or excavation is carried out in accordance with an excavation permit issued by the Heritage Division of the OEH.</p> <p>Under the Act, a relic is defined as: <i>'any deposit, artefact, object or material evidence that: (a) relates to the settlement of the area that comprises New South Wales, not being Aboriginal settlement, and (b) is of State or local heritage significance.'</i></p> <p>A person must notify the Heritage Division of OEH, if a person is aware or believes that they have discovered or located a relic (section 146). Penalties for offences under the Heritage Act can include six months imprisonment and/or a fine of up to \$1.1million.</p> |

| Relevant Requirement | Objectives and offences |
|---|--|
| National Parks and Wildlife Act 1974 (NPW Act) | <p>The NPW Act provides the basis for the care, protection and management of Aboriginal objects and places in NSW.</p> <p>An Aboriginal object is defined as: <i>‘any deposit, object or material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of the area that comprises New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains’.</i></p> <p>An ‘Aboriginal place’ is an area declared by the Minister administering the Act to be of special significance with respect to Aboriginal culture. An Aboriginal place does not have to contain physical evidence of occupation (such as Aboriginal objects).</p> <p>Under section 87 of the Act, it is an offence to harm or desecrate an Aboriginal object or place. There are strict liability offences. An offence cannot be upheld where the harm or desecration was authorised by an AHIP and the permit’s conditions were not contravened. Defences and exemptions to the offence of harming an Aboriginal object or Aboriginal place are provided in section 87, 87A and 87B of the Act.</p> <p>A person must notify OEH if a person is aware of the location of an Aboriginal object.</p> <p>Penalties for some of the offences can include two years imprisonment and/or up to \$550,000 (for individuals), and a maximum penalty of \$1.1 million (for corporations).</p> |

7. Unexpected heritage finds protocol

7.1. What is an unexpected heritage find?

An ‘unexpected heritage find’ can be defined as any unanticipated archaeological discovery that has not been identified during a previous assessment or is not covered by an existing permit under the Heritage Act. The find may have potential cultural heritage value, which may require some type of statutory cultural heritage permit or notification if any interference of the heritage item is proposed or anticipated.

The range of potential archaeological discoveries can include but are not limited to:

- remains of rail infrastructure including buildings, footings, stations, signal boxes, rail lines, bridges and culverts
- remains of other infrastructure including sandstone or brick buildings, wells, cisterns, drainage services, conduits, old kerbing and pavement, former road surfaces, timber and stone culverts, bridge footings and retaining walls

- artefact scatters including clustering of broken and complete bottles, glass, ceramics, animal bones and clay pipes
- Archaeological human skeletal remains.

7.2. Managing unexpected heritage finds

In the event that an unexpected heritage find (the find) is encountered on a Sydney Metro site, the flowchart in Figure 1 must be followed. There are eight steps in the procedure. These steps are summarised in Figure 1 and explained in detail in Table 2

Figure 1 Overview of steps to be undertaken on the discovery of an unexpected heritage item

IMPORTANT!

Sydney Metro may have approval to impact on certain heritage items during construction. If you think that you may have discovered a heritage item and you are unsure whether an approval is in place or not, **STOP** works and follow this procedure.

Table 2 Specific tasks to be implemented following the discovery of an unexpected heritage item

| Step | Task | Responsibility | Guidance and tools |
|----------|---|--|--|
| 1 | Stop work, protect item and inform the Excavation Director | | |
| 1.1 | Stop all work in the immediate area of the item and notify the Project Manager | Contractor/ Supervisor | Appendix A (Identifying Unexpected Heritage items) |
| 1.2 | Establish a 'no-go zone' around the item. Use high visibility fencing, where practical. No work is to be undertaken within this zone until further investigations are completed and, if required, appropriate approvals are obtained. Inform all site personnel about the no-go zone. | Project Manager/ Contractor/ Supervisor | |
| 1.3 | Inspect, document and photograph the item. | Excavation Director | Appendix B (Unexpected Heritage Item Recording Form) Appendix C (Photographing Unexpected Heritage items) |
| 1.4 | Is the item likely to be bone? If yes , follow the steps in Appendix D – 'Uncovering bones'. Where it is obvious that the bones are human remains, you must notify the local police by telephone immediately. They may take command of all or part of the site. If no , proceed to next step. | Excavation Director | Appendix D (Uncovering Bones) |

| Step | Task | Responsibility | Guidance and tools |
|----------|--|--|--------------------|
| 1.5 | <p>Inform the Excavation Director of the item and provide as much information as possible, including photos and completed form (Appendix B).</p> <p>Where the project has an Environmental Representative (ER), the ER should be involved in the tasks/process as appropriate.</p> | Contractors Project Manager | |
| 1.6 | <p>Can the works avoid further disturbance to the item? Project Manager to confirm with TfNSW Environment and Planning Manager.</p> <p>Complete the remaining tasks in Step 1.</p> | Contractors Project Manager | |
| 1.7 | <p>Excavation Director to advise the Project Manager whether TfNSW has approval to impact on the 'item'.</p> <p>Does Metro have an approval or permit to impact on the item?</p> <p>If yes, work may recommence in accordance with that approval or permit. There is no further requirement to follow this procedure.</p> <p>If no, continue to next step.</p> | Contractors Project Manager | |
| 1.8 | <p>Has the 'find' been damaged or harmed?</p> <p>If yes, record the incident in the Incident Management System Implement any additional reporting requirements related to the planning approval and CEMP, where relevant. Contact Sydney Metro Manager, Environment Safety, Environment and Business Systems</p> | Contractors Project Manager, Excavation Director | |
| 2 | Contact and engage an archaeologist and/or an Aboriginal heritage consultant | | |

| Step | Task | Responsibility | Guidance and tools |
|----------|---|--|--|
| 2.1 | <p>If an archaeologist and/or Aboriginal heritage consultant has been previously appointed for the project, contact them to discuss the location and extent of the item and arrange a site inspection, if required. The project CEMP may contain contact details of the archaeologist/Aboriginal heritage consultant.</p> <p>Where there is no project archaeologist engaged for the works engage a suitably qualified consultant to assess the find:</p> <p>if the find is a non-Aboriginal deposit, engage a suitably qualified and experienced archaeological consultant</p> <p>if the find is likely to be an Aboriginal object, engage an Aboriginal heritage consultant to assess the find.</p> | Contractors Project Manager, Excavation Director | |
| 2.2 | If requested, provide photographs of the item taken during Step 1.3 to the archaeologist or Aboriginal heritage consultant. | Contractors Project Manager, Excavation Director | Appendix C (Photographing Unexpected Heritage items) |
| 3 | Preliminary assessment and recording of the find | | |
| 3.1 | In a minority of cases, the archaeologist/Aboriginal heritage consultant may determine from the photographs that no site inspection is required because no heritage constraint exists for the project (e.g. <i>the item is not a 'relic', a 'heritage item' or an 'Aboriginal object'</i>). Any such advice should be provided in writing (e.g. via email or letter with the consultant's name and company details clearly identifiable) to the TfNSW Project Manager. | Archaeologist/ Aboriginal heritage consultant/ Contractors Project Manager, Excavation Director | Proceed to Step 8 |

| Step | Task | Responsibility | Guidance and tools |
|------|---|--|---|
| 3.2 | Arrange site access for the archaeologist/Aboriginal heritage consultant to inspect the item as soon as practicable. In the majority of cases a site inspection is required to conduct a preliminary assessment. | Contractors Project Manager, Excavation Director | |
| 3.3 | Subject to the archaeologist/Aboriginal heritage consultant's assessment, work may recommence at a set distance from the item. This is to protect any other archaeological material that may exist in the vicinity, which may have not yet been uncovered. Existing protective fencing established in Step 1.2 may need to be adjusted to reflect the extent of the newly assessed protective area. No works are to take place within this area once established. | Archaeologist/ Aboriginal heritage consultant Contractors Project Manager, Excavation Director | |
| 3.4 | <p>The archaeologist/Aboriginal heritage consultant may provide advice after the site inspection and preliminary assessment that no heritage constraint exists for the project (e.g. the item is not a '<i>relic</i>' or a '<i>heritage item</i>' or an '<i>aboriginal item</i>'). Any such advice should be provided in writing (e.g. via email or letter with the consultant's name and company details clearly identifiable) to the Metro Project Manager.</p> <p>Note that :</p> <ul style="list-style-type: none"> a relic is evidence of past human activity which has local or State heritage significance. It may include items such as bottles, utensils, remnants of clothing, crockery, personal effects, tools, machinery and domestic or industrial refuse an Aboriginal object may include a shell midden, stone tools, bones, rock art or a scarred tree a "work", building or standing structure may include tram or train tracks, kerbing, historic road pavement, fences, sheds or building foundations. | Archaeologist/ Aboriginal heritage consultant/ Contractors Project Manager, Excavation Director | Proceed to Step 8 Refer to Appendix A (Identifying heritage items) |

| Step | Task | Responsibility | Guidance and tools |
|----------|---|--|--------------------|
| 3.5 | Where required, seek additional specialist technical advice (such as a forensic or physical anthropologist to identify skeletal remains). The archaeologist/Aboriginal heritage consultant can provide contacts for such specialist consultants. | Contractors Project Manager, Excavation Director | |
| 3.6 | Where the item has been identified as a 'relic' or 'heritage item' or an 'Aboriginal object' the archaeologist should formally record the item. | Archaeologist/ Aboriginal heritage consultant | |
| 3.7 | OEH (Heritage Division for non-Aboriginal relics and Planning and Aboriginal Heritage Section for Aboriginal objects) can be notified informally by telephone at this stage by the Sydney Metro Principal Manager Sustainability Environment and Planning (Program). Any verbal conversations with regulators must be noted on the project file for future reference. | Contractors Project Manager, Excavation Director | |
| 4 | Section 4 not used | | |
| | | | |
| | | | |
| | | | |
| | | | |

| Step | Task | Responsibility | Guidance and tools |
|----------|--|--|---|
| 5 | Notify the regulator, if required. | | |
| 5.1 | Based on the findings of the archaeological or heritage management plan and corresponding legislative requirements, is the find required to be notified to OEHL and the Secretary? If no , proceed directly to Step 6 If yes , proceed to next step. | Contractors Project Manager, Excavation Director | |
| 5.2 | If notification is required, complete the template notification letter, including the archaeological/heritage management plan and other relevant supporting information and forward to the Sydney Metro Principal Manager Sustainability Environment and Planning (Program) for signature. | Contractors Project Manager, Excavation Director | Appendix F (Template Notification Letter) |
| 5.3 | Forward the signed notification letter to OEHL and the Secretary. Informal notification (via a phone call or email) to OEHL prior to sending the letter is appropriate. The archaeological or heritage management plan and the completed site recording form (Appendix B) must be submitted with the notification letter (for both Aboriginal objects and non-Aboriginal relics). For Part 5.1 projects, the Department of Planning and Environment must also be notified. | Contractors Project Manager, Excavation Director | |
| 5.4 | A copy of the final signed notification letter, archaeological or heritage management plan and the site recording form is to be kept on file and a copy sent to the Sydney Metro Project Manager. | Contractors Project Manager, Excavation Director | |
| 6 | Implement archaeological or heritage management plan | | |

| Step | Task | Responsibility | Guidance and tools |
|-------------|---|--|---------------------------|
| 6.1 | Modify the archaeological or heritage management plan to take into account any additional advice resulting from notification and discussions with OEH. | Contractors Project Manager, Excavation Director | |
| 6.2 | Implement the archaeological or heritage management plan. Where impact is expected, this may include a formal assessment of significance and heritage impact assessment, preparation of excavation or recording methodologies, consultation with Registered Aboriginal Parties, obtaining heritage approvals etc., if required. | Contractors Project Manager, Excavation Director | |
| 6.3 | Where heritage approval is required contact the Environment and Planning Manager for further advice and support material. Please note there are time constraints associated with heritage approval preparation and processing. | Contractors Project Manager, Excavation Director | |
| 6.4 | Assess whether heritage impact is consistent with the project approval or if project approval modification is required from the Department of Planning and Environment. | Contractors Project Manager, Excavation Director | |
| 6.5 | Where statutory approvals (or project approval modification) are required, impact upon relics and/or Aboriginal objects must not occur until heritage approvals are issued by the appropriate regulator. | Contractors Project Manager, Excavation Director | |
| 6.6 | Where statutory approval is not required but where recording is recommended by the archaeologist/Aboriginal heritage consultant, sufficient time must be allowed for this to occur. | Contractors Project Manager, Excavation Director | |

| Step | Task | Responsibility | Guidance and tools |
|----------|---|--|--------------------|
| 6.7 | Ensure short term and permanent storage locations are identified for archaeological material or other heritage material removed from site, where required. Interested third parties (e.g. museums, local Aboriginal land councils, or local councils) should be consulted on this issue. Contact the archaeologist or Aboriginal heritage consultant for advice on this matter, if required. | Contractors Project Manager, Excavation Director | |
| 7 | Section 7 Not Used | | |
| | | | |
| | | | |
| 8 | Resume work | | |
| 8.1 | Seek written clearance to resume project work from the Environment and Planning Manager and the Archaeologist/Aboriginal heritage consultant. Clearance would only be given once all archaeological excavation and/or heritage recommendations and approvals (where required) are complete. Resumption of project work must be in accordance with the all relevant project/heritage approvals/determinations. | Contractors Project Manager, Excavation Director | |
| 8.2 | If required, ensure archaeological excavation/heritage reporting and other heritage approval conditions are completed in the required timeframes. This includes artefact retention repositories, conservation and/or disposal strategies. | Contractors Project Manager, Excavation Director | |
| 8.3 | Deleted | | |
| 8.4 | If additional unexpected items are discovered this procedure must begin again from Step 1. | All | |

8. Responsibilities

Roles and Responsibilities

| Role | Responsibility or role under this guideline |
|---|--|
| Contractor / Supervisor | Stop work immediately when an unexpected heritage find is encountered. Cordon off area until Environmental Manager advises that work can recommence. |
| Contractor or Environment Manager | <p>Manage the process of identifying, protecting and mitigating impacts on the 'find'.</p> <p>Liaise with Sydney Metro Project Manager and Environment and Planning Manager and assist the archaeologist/Aboriginal heritage consultant with mitigation and regulatory requirements.</p> <p>Complete Incident Report and review CEMP for any changes required. Propose amendments to the CEMP if any changes are required.</p> |
| Contractor's or Project Heritage Advisor or Consultant | Provide expert advice to the Sydney Metro Environment and Planning Manager on 'find' identification, significance, mitigation, legislative procedures and regulatory requirements. |
| Environmental Representative | <p>Independent environmental advisor engaged by Sydney Metro</p> <p>Review and provides advice on heritage management plan and changes to the CEMP. Ensures compliance with relevant approvals (new and existing).</p> |
| Heritage Division of OEH | <p>Regulate the care, protection and management of relics (non-Aboriginal heritage).</p> <p>Delegated authority for Heritage Council</p> <p>Issue excavation permits.</p> |
| Registered Aboriginal Parties (RAPs) | Aboriginal people who have registered with Sydney Metro to be consulted about a proposed project or activity in accordance with the OEH <i>Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010</i> . |
| Sydney Metro Environment and Planning Manager | Notify the TfNSW Principal Manager, Environmental Management of 'find' and manage Incident Reporting once completed by Environmental Manager. |
| Contractors Project Manager | Ensures all aspects of this procedure are implemented. Advise Contractor / Supervisor to recommence work when all applicable requirements have been satisfied. |

9. Seeking advice

Advice on this procedure should be sought from the Sydney Metro Environment and Planning Manager in the first instance. Contractors and alliance partners should ensure their own project environment managers are aware of and understand this procedure.

Technical archaeological or heritage advice regarding an unexpected heritage item should be sought from a suitably qualified and experienced archaeologist/Aboriginal heritage consultant.

10. Related documents and references

Related Documents

Environmental Incident Classification and Reporting – 9TP-PR-105

Guide to Environmental Control Map – 3TP-SD-015

NSW Heritage Office (1998), *Skeletal remains: guidelines for the management of human skeletal remains*.

Roads and Maritime Services (2015), *Standard Management Procedure Unexpected Heritage Items*.

Department of Environment and Conservation NSW (2006), *Manual for the identification of Aboriginal remains*.

11. List of appendices

The following appendices are included to support this procedure:

- Appendix A: Examples of finds encountered during construction works
- Appendix B: Unexpected Heritage Item Recording Form
- Appendix C: Photographing Unexpected Heritage Items
- Appendix D: Uncovering Bones
- Appendix E: Archaeological Advice Checklist
- Appendix F: Template Notification Letter

Appendix A - Examples of finds encountered during construction works



Photo 1 - Aboriginal artefacts found at the Wickham Transport Interchange, 2015

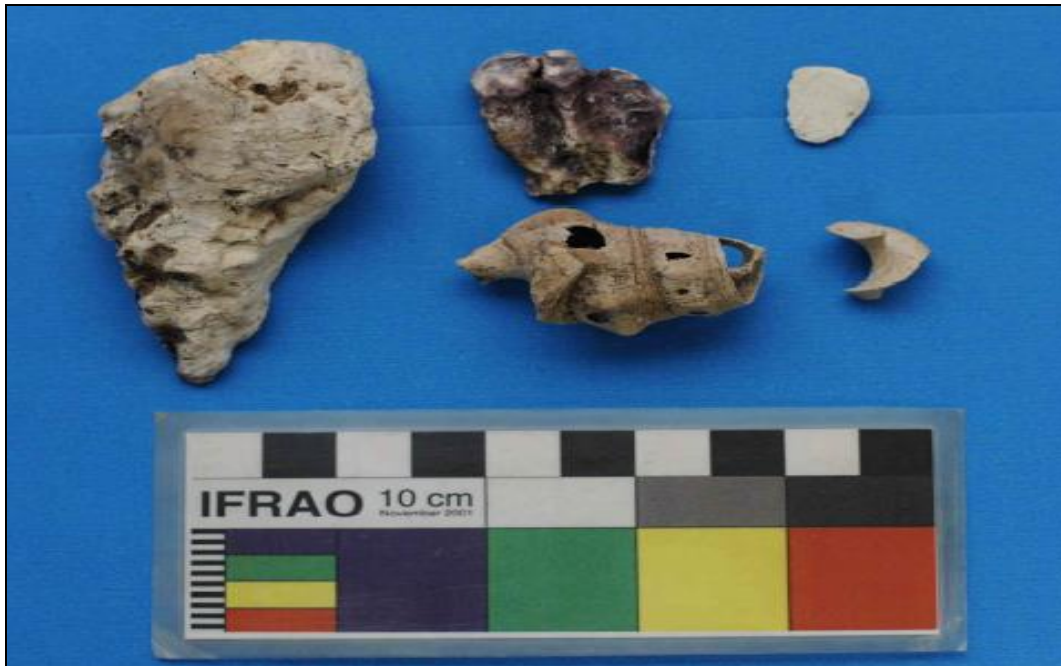


Photo 2 – Aboriginal artefacts (shell material) found at the Wickham Transport Interchange, 2015



Photo 3 1840s seawall and 1880s retaining wall uncovered at Balmain East, 2016



Photo 4 Sandstone pavers uncovered at Balmain East, 2016



Photo 5 - Platform structure at Hamilton Railway Station classified as a 'work' by the project archaeologist - Wickham Transport Interchange project, 2015

Photo 6 - Platform structure at Hamilton Railway Station classified as a 'work' by the project archaeologist - Wickham Transport Interchange project, 2015



Photo 7 - Sandstone flagging and cesspit - Wynyard Walk project, 2014



Photo 8 - Chinese Ming Dynasty pottery and English porcelain/pottery dating back to early 19th century -Wynyard Walk project, 2014



Photo 9 - Pottery made by convict potter Thomas Ball during the early settlement - Wynyard Walk project, 2014

The following images, obtained from the Roads and Maritime Services' *Standard Management Procedure for Unexpected Heritage items 2015*, can be used to assist in the preliminary identification of potential unexpected items during construction and maintenance works.



Photo 10 - Top left hand picture continuing clockwise: Stock camp remnants (Hume Highway Bypass at Tarcutta); Linear archaeological feature with post holes (Hume Highway Duplication), Animal bones (Hume Highway Bypass at

Woomargama); Cut wooden stake; Glass jars, bottles, spoon and fork recovered from refuse pit associated with a Newcastle Hotel (Pacific Highway, Adamstown Heights, Newcastle area) (RMS, 2015).



Photo 11 - Top left hand picture continuing clockwise: Stock camp remnants (Hume Highway Bypass at Tarcutta); Linear archaeological feature with post holes (Hume Highway Duplication), Animal bones (Hume Highway Bypass at

Woomargama); Cut wooden stake; Glass jars, bottles, spoon and fork recovered from refuse pit associated with a Newcastle Hotel (Pacific Highway, Adamstown Heights, Newcastle area) (RMS, 2015).

Appendix B- Unexpected heritage item recording form

Example of **unexpected heritage item recording form**

This form is to be completed Excavation Director on the discovery of an archaeological heritage item during construction or maintenance works

| Date: | | Recorded by: (include name and position) | |
|--|--------------------------|---|--|
| Project name: | | | |
| Description of works being undertaken: | | | |
| Description of exact location of item | | | |
| Description of item found (What type of item is it likely to be? Tick the relevant boxes). | | | |
| A. A relic | <input type="checkbox"/> | A 'relic' is evidence of a past human activity relating to the settlement of NSW with local or state heritage significance. A relic might include bottle, utensils, plates, cups, household items, tools, implements, and similar items | |
| B. A 'work', building or structure' | <input type="checkbox"/> | A 'work' can generally be defined as a form infrastructure such as track or rail tracks, timber sleepers, a culvert, road base, a bridge pier, kerbing, and similar items | |
| C. An Aboriginal object | <input type="checkbox"/> | An 'Aboriginal object' may include stone tools, stone flakes, shell middens, rock art, scarred trees and human bones | |
| D. Bone | <input type="checkbox"/> | Bones can either be human or animal remains. Remember that you must contact the local police immediately by | |

| | | | |
|---|--------------------------|--|--|
| | | telephone if you are certain that the bone(s) are human remains. | |
| E. Other | <input type="checkbox"/> | | |
| Provide a short description of the item <i>(eg metal rail tracks running parallel to the rail corridor. Good condition. Tracks set in concrete, approximately 10 cm below the current ground surface).</i> | | | |
| Sketch <i>(provide a sketch of the item's general location in relation to other road features so its approximate location can be mapped without having to re-excavate it. In addition, please include details of the location and direction of any photographs of the item taken)</i> | | | |
| Action taken (Tick either A or B) | | | |
| A. Unexpected item would not be further impacts on by the works | <input type="checkbox"/> | Describe how works would avoid impact on the item. <i>(eg the rail tracks would be left in situ and recovered with paving).</i> | |
| | | | |

| | | | |
|--|--------------------------|---|--|
| <p>B. Unexpected item would be further impacted by the works</p> | <input type="checkbox"/> | <p>Describe how works would impact on the item. (eg milling is required to be continued to a depth of 200 mm depth to ensure the pavement requirements are met. Rail tracks would need to be removed.)</p> | |
| | | | |
| | | | |
| <p>Excavation Director</p> | | <p>Signature</p> | |
| | | <p>Signature</p> | |

Important
 It is a statutory offence to disturb Aboriginal objects and historic relics (including human remains) without an approval. All works affecting objects and relics must cease until an approval is sought.
 Approvals may also be required to impact on certain works.

Appendix C- Photographing unexpected heritage items

Photographs of unexpected items in their current context (*in situ*) may assist archaeologists/Aboriginal heritage consultants to better identify the heritage values of the item. Emailing good quality photographs to specialists can allow for better quality and faster heritage advice. The key elements that must be captured in photographs of the item include its position, the item itself and any distinguishing features. All photographs must have a scale (ruler, scale bar, mobile phone, coin etc) and a note describing the direction of the photograph.

Context and detailed photographs

It is important to take a general photograph (Figure 1) to convey the location and setting of the item. This will add value to the subsequent detailed photographs also required (Figure 2).

Removal of the item from its context (e.g. excavating from the ground) for photographic purposes is not permitted.

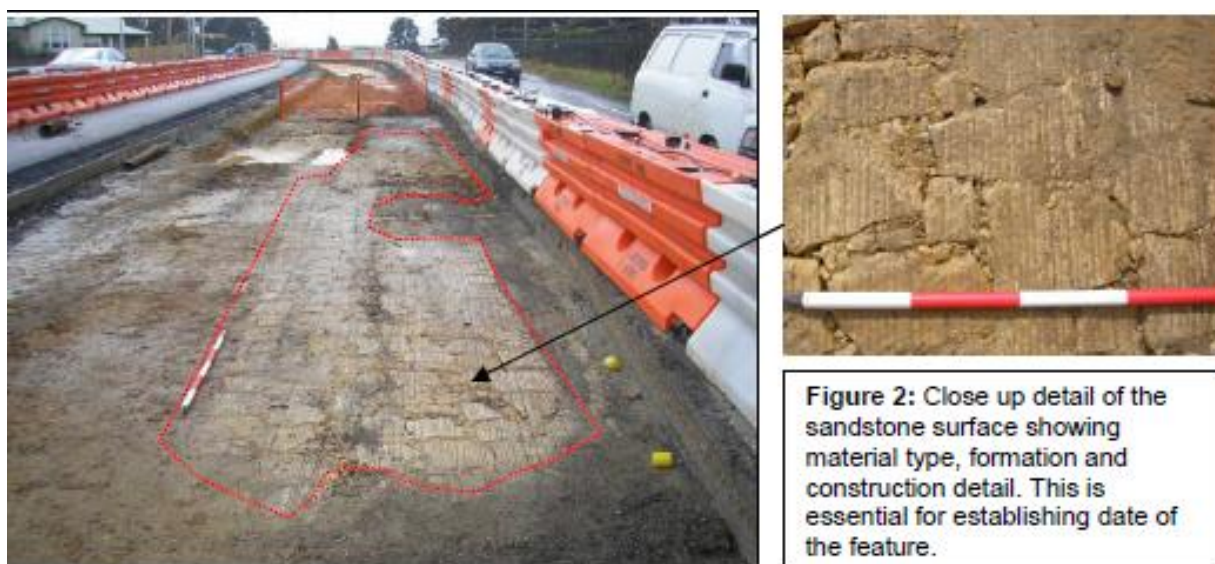


Figure 2: Close up detail of the sandstone surface showing material type, formation and construction detail. This is essential for establishing date of the feature.

Figure 1: Telford road uncovered on the Great Western Highway (Leura) in 2008 (RMS, 2015).

Photographing distinguishing features

Where unexpected items have a distinguishing feature, close up detailed photographs must be taken of these features, where practicable. In the case of a building or bridge, this may include diagnostic details architectural or technical features. See Figures 3 and 4 for examples.



Figure 3: Ceramic bottle artefact with stamp.



Figure 4: Detail of the stamp allows 'Tooth & Co Limited' to be made out. This is helpful to a specialist in gauging the artefact's origin, manufacturing date and likely significance.

Photographing bones

The majority of bones found on site will those of be recently deceased animal bones often requiring no further assessment (unless they are in archaeological context). However, if bones are human, the police must be contacted immediately (see Appendix F for detailed guidance). Taking quality photographs of the bones can often resolve this issue quickly. The project archaeologist can confirm if bones are human or non-human if provided with appropriate photographs.

Ensure that photographs of bones are not concealed by foliage (Figure 5) as this makes it difficult to identify. Minor hand removal of foliage can be undertaken as long as disturbance of the bone does not occur. Excavation of the ground to remove bone(s) should not occur, nor should they be pulled out of the ground if partially exposed.

Where sediment (adhering to a bone found on the ground surface) conceals portions of a bone (Figure 6) ensure the photograph is taken of the bone (if any) that is not concealed by sediment.



Figure 5: Bone concealed by foliage.



Figure 6: Bone covered in sediment

Ensure that all close up photographs include the whole bone and then specific details of the bone (especially the ends of long bones, the *epiphysis*, which is critical for species identification). Figures 7 and 8 are examples of good photographs of bones that can easily be identified from the photograph alone. They show sufficient detail of the complete bone and the epiphysis.



Figure 7: Photograph showing complete bone.



Figure 8: Close up of a long bone's epiphysis.

Appendix D - Uncovering bones

This appendix provides advice regarding:

- what to do on first discovering bones
- the range of human skeletal notification pathways
- additional considerations and requirements when managing the discovery of human remains.

1. First uncovering bones

Refer to the Sydney Metro Exhumation Management Plan

Stop all work in the vicinity of the find. All bones uncovered during project works should be **treated with care and urgency** as they have the potential to be human remains. The bones must be identified as either human or non-human as soon as possible by a qualified forensic or physical anthropologist..

On the very rare occasion where it is immediately obvious from the remains that they are human, the Project Manager (or a delegate) should **inform the police by telephone** prior to seeking specialist advice. It will be obvious that it is human skeletal remains where there is no doubt, as demonstrated by the example in Figure 1¹⁰. Often skeletal elements in isolation (such as a skull) can also clearly be identified as human. Note it may also be obvious that human remains have been uncovered when soft tissue and/or clothing are present.

¹⁰ After Department of Environment and Conservation NSW (2006), *Manual for the identification of Aboriginal Remains: 17*

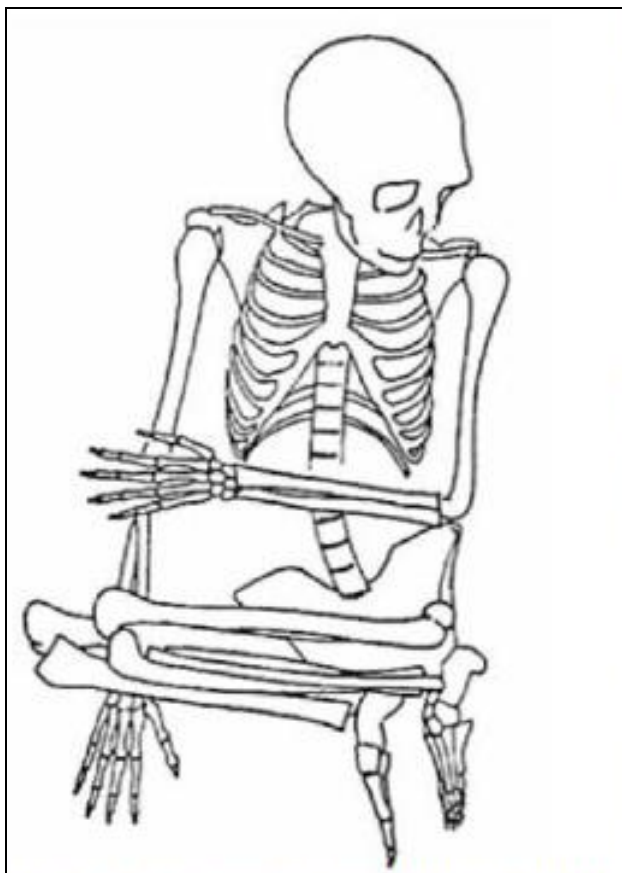


Figure 1: Schematic of a complete skeleton that is 'obviously' human¹².



Figure 2: Disarticulated bones that require assessment to determine species.

This preliminary phone call is to let the police know that a specialist skeletal assessment to determine the approximate date of death which will inform legal jurisdiction. The police may wish to take control of the site at this stage. If not, a forensic or physical anthropologist must be requested to make an on-site assessment of the skeletal remains.

Where it is not immediately obvious that the bones are human (in the majority of cases, illustrated by Figure 2), specialist assessment is required to establish the species of the bones. Photographs of the bones can assist this assessment if they are clear and taken in accordance with guidance provided in Appendix C. Good photographs often result in the bones being identified by a specialist without requiring a site visit; noting they are nearly always non-human. In these cases, non-human skeletal remains must be treated like any other unexpected archaeological find.

If the bones are identified as human (either by photographs or an on-site inspection) a technical specialist must determine the likely ancestry (Aboriginal or non-Aboriginal) and burial context (archaeological or forensic). This assessment is required to identify the legal regulator of the human remains so **urgent notification** (as below) can occur.

Preliminary telephone or verbal notification by the archaeologist to the Sydney Metro Principal Manager Sustainability Environment and Planning (Program) appropriate. This

must be followed up later by a formal letter notification to the relevant regulator (as per Appendix G) when a management plan has been developed and agreed to by the relevant parties.

2. Range of human skeletal notification pathways

The following is a summary of the different notification pathways required for human skeletal remains depending on the preliminary skeletal assessment of ancestry and burial context.

A. Human bones are from a recently deceased person (*less than 100 years old*).

Action

A police officer must be notified immediately as per the obligations to report a death or suspected death under s35 of the *Coroners Act 2009* (NSW). It should be assumed the police will then take command of the site until otherwise directed.

B. Human bones are archaeological in nature (*more than 100 years old*) and are likely to be Aboriginal remains.

Action

The OEH (Planning and Aboriginal Heritage Section) must be notified immediately. The Aboriginal Cultural Heritage Advisor must contact and inform the relevant Aboriginal community stakeholders who may request to be present on site.

C. Human bones are archaeological in nature (*more than 100 years old*) and likely to be non-Aboriginal remains.

Action

The OEH (Heritage Division) must be notified immediately

Figure 3 summarises the notification pathways on finding bones.

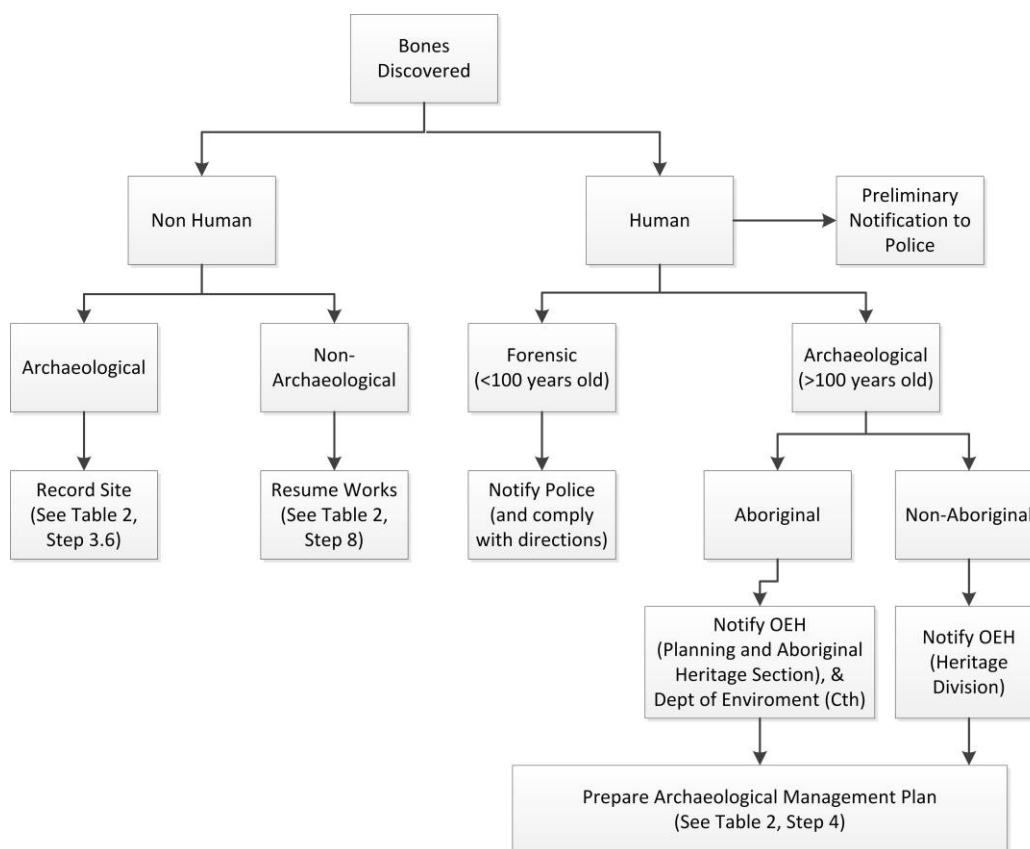


Figure 3 Overview of steps to be undertaken on the discovery of bones

After the appropriate verbal notifications (as described in 2B and 2C above), the Project Manager must proceed through the *Unexpected Heritage Items Exhumation Management Plan* (Step 4). It is noted that no *Exhumation Management Plan* is required for forensic cases (2A), as all future management is a police matter. Non-human skeletal remains must be treated like any other unexpected archaeological find and so must proceed to record the find as per Step 3.6.

3. Additional considerations and requirements

Uncovering archaeological human remains must be managed intensively and needs to consider a number of additional specific issues. These issues might include facilitating culturally appropriate processes when dealing with Aboriginal remains (such as repatriation and cultural ceremonies). Project Managers may need to consider overnight site security of any exposed remains and may need to manage the onsite attendance of a number of different external stakeholders during assessment and/or investigation of remains.

Project Managers may also be advised to liaise with local church/religious groups and the media to manage community issues arising from the find. Additional investigations may be required to identify living descendants, particularly if the remains are to be removed and relocated.

If exhumation of the remains (from a formal burial or a vault) is required, Project Managers should also be aware of additional approval requirements under the *Public Health Act 1991* (NSW). Specifically, TfNSW is required to apply to the Director General of NSW Department of Health for approval to exhume human remains as per Clause 26 of the *Public Health (Disposal of Bodies) Regulation 2002* (NSW)¹¹.

Further, the exhumation of such remains needs to consider health risks such as infectious disease control, exhumation procedures and reburial approval and registration. Further guidance on this matter can be found at the NSW Department of Health website.

In addition, due to the potential significant statutory and common law controls and prohibitions associated with interfering with a public cemetery, project teams are advised, when works uncover human remains adjacent to cemeteries, to confirm the cemetery's exact boundaries.

¹¹ This requirement is in addition to heritage approvals under the *Heritage Act 1977*.

Appendix E - Archaeological/heritage advice checklist

The archaeologist/Aboriginal heritage consultant must advise the Sydney Metro Principal Manager Sustainability Environment and Planning (Program) of an appropriate archaeological or heritage management plan as soon as possible after an inspection of the site has been completed (see Step 4). An archaeological or heritage management plan can include a range of activities and processes, which differ depending on the find and its significance.

In discussions with the archaeologist/Aboriginal heritage consultant the following checklist can be used as a prompt to ensure all relevant heritage issues are considered when developing this plan. This will allow the project team to receive clear and full advice to move forward quickly. Archaeological and/or heritage advice on how to proceed can be received in a letter or email outlining all relevant archaeological and/or heritage issues.

| | Required | Outcome/notes |
|--|----------|---------------|
| Assessment and investigation | | |
| • Assessment of significance | Yes/No | |
| • Assessment of heritage impact | Yes/No | |
| • Archaeological excavation | Yes/No | |
| • Archival photographic recording | Yes/No | |
| Heritage approvals and notifications | | |
| • AHIP, section 140, section 139 exceptions etc. | Yes/No | |
| • Regulator relics/objects notification | Yes/No | |
| • Notification to Sydney Trains for s170 heritage conservation register | Yes/No | |
| • Compliance with CEMP or other project heritage approvals | Yes/No | |
| Stakeholder consultation | | |
| • Aboriginal stakeholder consultation | Yes/No | |
| Artefact/heritage item management | | |
| • Retention or conservation strategy (e.g. items may be subject to long conservation and interpretation) | Yes/No | |
| • Disposal strategy | Yes/No | |
| • Short term and permanent storage locations (interested third parties should be consulted on this issue). | Yes/No | |
| • Control Agreement for Aboriginal objects | Yes/No | |

Appendix F- Template notification letter

Insert on TfNSW letterhead
Select and type date]
[Select and type reference number]

XXX

Manager, Conservation
Heritage Division, Office of Environment and Heritage
Locked Bag 5020
Parramatta NSW 2124

[Select and type salutation and name],

Re: Unexpected heritage item discovered during Transport for NSW –Sydney Metro activities.

I write to inform you of an unexpected [select: relic, heritage item or Aboriginal object] found during TfNSW Infrastructure and Services construction works at [insert location] on [insert date] in accordance with the notification requirement under select: section 146 of the *Heritage Act 1977* (NSW). [Where the regulator has been informally notified at an earlier date by telephone, this should be referred to here].

NB: On finding Aboriginal human skeletal remains this letter must also be sent to the Commonwealth Minister for the Environment in accordance with notification requirements under section 20(1) of the *Aboriginal and Torres Strait Islander Heritage Protection Act 1984* (Commonwealth).

[Provide a brief overview of the project background and project area. Provide a summary of the description and location of the item, including a map and image where possible. Also include how the project was assessed under the *Environmental Planning and Assessment Act 1979* (NSW) (e.g. Part 5). Also include any project approval number, if available].

Sydney Metro [or contractor] has sought professional archaeological advice regarding the item. A preliminary assessment indicates [provide a summary description and likely significance of the item]. Please find additional information on the site recording form attached.

Based on the preliminary findings, Sydney Metro [or contractor] is proposing [provide a summary of the proposed archaeological/heritage approach (e.g. develop archaeological research design (where relevant), seek heritage approvals, undertake archaeological investigation or conservation/interpretation strategy). Also include preliminary justification of such heritage impact with regard to project design constraints and delivery program].

The proposed approach will be further developed in consultation with a nominated Office of Environment and Heritage staff member.

Should you have any feedback on the proposed approach, or if you require any further information, please do not hesitate to contact [Environment and Planning Project Manager] on (02) XXXX XXXX.

Yours sincerely

[Sender name]

Sydney Metro Principal Manager Sustainability Environment and Planning (Program) [Attach
the archaeological/heritage management plan and site recording form].

Stuart Hodgson
Director
Program Sustainability Environment & Planning
Sydney Metro
Transport for NSW
PO Box K659
HAYMARKET NSW 1240

5 April 2018

Ref: 170108-UHFP

Dear Stuart

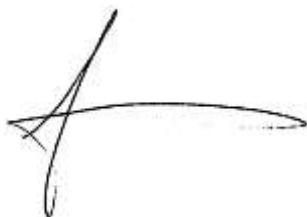
RE: Endorsement of Sydney Metro TfNSW Unexpected Finds Procedure v1.4 – SSI 15_7400

Thank you for providing the following document for Environmental Representative (ER) review and endorsement as required by the Condition of Approval A24 (d) of the Sydney Metro City & Southwest project (SSI – 15_7400 January 9 2017).

- Sydney Metro City & Southwest TfNSW Unexpected Finds Procedure v1.4 (the UHFP) required under Condition E19

As an approved ER for the Sydney Metro City & Southwest project, I have reviewed and provided comment to changes in this document to reflect updates in the SSI 15_7400 Modification approved by the Minister for Planning, 22 March 2018. I consider it appropriate for implementation.

Yours sincerely



Jo Robertson
Environmental Representative (Alternate) – Sydney Metro – City and South West