



Integrated Management System

Victoria Cross North and South Utilities Augmentation

Planning Approval Consistency Assessment Form

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Prepared for:	TSE contract
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The Planning Approval Consistency Assessment Form should be completed in accordance with the Sydney Metro Planning Approval Consistency Assessment Procedure (SM ES-PW-314) and Sydney Metro Environmental Planning and Approval Manual (SM ES-ST-216)

Existing Approved Project

Planning approval reference details (Application/Document No. (including modifications)):

Sydney Metro Chatswood to Sydenham SSI_7400
 Victoria Cross Modification SSI_7400 MOD1

Date of determination:

SSI-7400 - 09/01/17
 SSI_7400 MOD1 – 18/10/2017

Type of planning approval:

Critical State Significant Infrastructure

Description of existing approved project you are assessing for consistency:

SSI_7400 – Chatswood to Sydenham EIS

The Chatswood to Sydenham component of Sydney Metro City & Southwest comprises a new metro rail line, approximately 16 kilometres long, between Chatswood and Sydenham. New metro stations would be provided at Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street and Waterloo, as well as new underground metro platforms provided at Central Station.

Utilities such as water, sewer and telecommunications would need to be supplied to each of the major construction sites. Generally, these utilities are located close to the sites (such as the adjacent footpath) and the supply is considered 'business as usual' for supply companies.

Utilities would need to be adjusted, relocated and / or protected where there is a possibility they would otherwise be impacted by construction. The location of utilities has been determined from Dial Before You Dig plans, utility data, and local authority and council records. Further investigation and consultation with service asset owners would be carried out as the design develops to confirm exact locations, heights and depths of the utilities.

Where an existing utility conflicts with the proposed design, it may be necessary to:

- Provide physical protection for the utility where the utility is not directly affected but may be indirectly affected by vibration or accidental impact. Protection could include constructing a piled wall between the excavation and the utility, plating over the utility to minimise the impact of construction traffic, or marking out or fencing off the location of a utility to avoid it being accidentally damaged

- Modify construction methods to avoid impacting a nearby utility. For example, this could involve using only hand excavation and compaction tools such as hand digging tools, a vibration plate or pedestrian rollers where compacting within a specified distance of utilities
- Wrap and support the utility service to provide mechanical protection
- Divert the utility around the construction site.

Victoria Cross Modification Report

The proposed modification at Victoria Cross Station was identified in response to Condition A21 of the planning approval, which required further detailed analysis of alternative locations for the northern services building in order to improve environmental outcomes. Following assessment of alternatives, the preferred option for the Victoria Cross Station services building was identified as relocation of the approved northern services building to a new location at 50 McLaren Street, North Sydney. This preferred option would also incorporate a new northern station entry at this location. The associated northern construction site to support these works would be relocated to the adjacent lot at 52 McLaren Street, North Sydney. This would be a temporary site for the purpose of facilitating construction works and would be reinstated on completion of the works.

Relevant background information (including EA, REF, Submissions Report, Director General's Report, MCoA):

- Chatswood to Sydenham Environmental Impact Statement and accompanying technical papers (May, 2016)
- Chatswood to Sydenham Submissions and Preferred Infrastructure Report (October, 2016)
- Victoria Cross Station and Artarmon Substation Modification 18 October 2017
- Modified Conditions of Approval 18 October 2017

Description of proposed development/activity/works

The Sydney Metro Chatswood to Sydenham Environmental Impacts Statement (EIS) detailed the utility supply and relocation routes as they were known at the time. Since the initial report, detailed design of the utility works has been undertaken which has in some cases altered the alignment and has also considered additional services which required relocation this is especially the case where site locations have changed. Utilities include:

- Low voltage (LV) and High voltage (HV) power
- Stormwater
- Sewer
- Communications

The following details the proposed site alignments for the above listed utilities.

Victoria Cross South:

Roadheader HV power supply will be provided by a feeder on the north side of Berry Street, west of Miller Street. This will require trenching across Berry Street and approximately 30 meters south along the eastern side of Miller Street into a new substation located on the Victoria Cross South worksite.

An existing 1200 diameter stormwater line crosses through the Victoria Cross South site and through the excavation footprint, this will require some adjustment within the eastern footprint of Miller Street to enable the line to be supported through the excavation. See **Appendix A** for an aerial with mark-ups showing the proposed works. As part of this relocation, a new stormwater gully pit will be constructed in the eastern site of Miller St, this pit will assist in providing additional catchment required as a result of removing the overland flow path through the site. Consequential communications cabling relocations may be required as a result of the stormwater relocation as detailed above. This relocation is subject to further development of the design.

Victoria Cross North:

Additionally associated with the relocation of the northern services building and additional station access is the need to supply electricity to the new construction site location. This was not specified in the modification report. See **Appendix B** for an aerial with mark-ups showing the proposed works.

Works include;

- Establish one HVC kiosk substation on site
- Trench and direct bury HV cable underneath footpath at McLaren St (approx. 20m)
- Connections and jointing
- Relocation of an existing 150mm sewer line within the site is also required to enable the shaft excavation. The current proposed design requires a new length of pipe be laid to the 225mm sewer line running along the eastern boundary of the site.
- Gas meter disconnection to site boundary on McLaren Street
- Telecommunication disconnection to site boundary on McLaren Street

Timeframe

When will the proposed change take place? For how long?

There will be no change to the project program as a result of this assessment. Approved, standard working hours for the Project are as follows:

- 07.00 – 18.00 Monday to Friday
- 08.00 – 17.00 Saturdays
- No works Sundays or Public holidays

If out of hours works are required, the TfNSW Condition E47 OOH procedure would be implemented or the works would be undertaken in accordance with the TSE Contractor's Environment Protection Licence in accordance with Condition E44.

Site description

Provide a description of the site on which the proposed works are to be carried out, including, Lot and Deposited Plan details, where available. Map to be included here or as an appendix. Detail of land owner.

Victoria Cross South:

Works in this location are trenching from the north side of Berry Street, east towards Miller Street and then down Miller St approximately 30 meters south along the eastern side of Miller Street into a new substation located on the Victoria Cross South worksite. The works are all within the road, road reserve and footpaths.

Additionally the existing 1200 diameter stormwater that requires relocation to outside of the construction site would be contained to within the footpath of the eastern side of Miller Street adjacent to the Victoria Cross South worksite.

The additional stormwater catchment pit will be constructed in the east kerb side land of Miller St and will require occupation of Miller St during construction.

Victoria Cross North:

The Victoria Cross Station modification assessed the relocation of the northern station services building from 194 and 196A Miller Street, North Sydney, to 50 McLaren Street, North Sydney.

Works in this location are restricted to the corner of Miller and McLaren Streets and the footpath.

Sewer works will be contained within the site boundary.

Site Environmental Characteristics

Describe the environment (i.e., vegetation, nearby waterways, land use, surrounding land use), identify likely presence of protected flora/fauna and sensitive area.

Victoria Cross South:

In this location the works will be located in the footpath, roadway or within the work site.

The closest heritage listed property to the works is Monte Sant Angelo Group, on the corner of Miller and Berry Streets.

There is street tree planting along Berry Street and Miller Street.

Victoria Cross North:

In this location there is currently an empty lot.

The nearest heritage listed property is the conservation area across the road and 248 Miller Street – neither of these will be impacted by the works.

There are street trees within the proposal site and on McLaren Street.

There are no protected flora and/or fauna identified in the area.

The Tree Reports required under COA E6 will be updated to assess the removal or trimming of any trees impacted by this assessment.

Justification for the proposed works

Address the need for the proposed works, whether there are alternatives to the proposed works (and why these are not appropriate), and the consequences with not proceeding with the proposed work.

Since the approval of the Project on 9 January 2017, as modified, there has been ongoing consultation with utility providers in order to;

- a) Service the sites with the appropriate utilities
- b) Protect and relocated essential utilities to outside of the projects impact area

This has resulted in the need to augment the indicative utility locations which were shown in the EIS and PIR.



Environmental Benefit

Identify whether there are environmental benefits associated with the proposed works. If so, provide details:

The alignments that are the result of this assessment have been chosen because they are the shortest distance to the service connection/supply points and thereby reduce environmental impacts associated with construction.

Control Measures

Will a project and site specific EMP be prepared? Are appropriate control measures already identified in an existing EMP?

No a site specific CEMP will not be prepared for this scope, this scope would be managed as per the existing TSE CEMP. A Site Environment Plan (SEP) will be prepared by the TSE Contractor and endorsed by the ER.

Climate Change Impacts

Is the site likely to be adversely affected by the impacts of climate change? If yes, what adaptation/mitigation measures will be incorporated into the design?

No.

Impact Assessment – Construction

Attach supporting evidence in the Appendices if required. Make reference to the relevant Appendix if used.

Aspect	Nature and extent of impacts (neg and pos) during construction (if control measures implemented) of the proposed /activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Flora and fauna	There are street trees in close proximity to the proposed utility trench routes. Where possible trees would be retained and protected during the works.	As per the Conditions of Approval all tree trimming and removal require compliance with E6.	Y	✓	
Water	No change from EIS and modification assessed impact.	As per the Conditions of Approval	Y	✓	
Air quality	No change from EIS and modification assessed impact.	As per the Conditions of Approval	Y	✓	
Noise vibration	No change from EIS and modification assessed impact.	As per the Conditions of Approval	Y	✓	
Non-Indigenous heritage	<p>Heritage listed properties/ items within 30m of the works include:</p> <ul style="list-style-type: none"> • LEP listed Monte Sant Angelo Group – corner of Miller and Berry Streets • LEP listed Shop 243 Miller Street • LEP listed McLaren Street Conservation Area <p>Works would be adjacent to the wall of the Monte Sant Angelo school in the footpath along Berry St. Works would not be within or adjacent to the other listed heritage properties/places listed above. There are no known heritage properties or items that would be impacted by the works.</p>	<p>Trenching works adjacent to Monte Sant Angelo would not impact on the heritage curtilage.</p> <p>In regards to archaeology – the Unexpected Finds Protocol would apply.</p>	Y	✓	

Sydney Metro – Integrated Management System (IMS)



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Aspect	Nature and extent of impacts (neg and pos) during construction (if control measures implemented) of the proposed /activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Indigenous heritage	Neither the Northern or Southern sites have any known Aboriginal heritage items in proximity to the works.	In regards to archaeology – the unexpected finds procedure would apply.	Y	✓	
Community and stakeholder	No change from EIS and modification assessed impact.	As per CEMP and the TSE Community Communication Strategy.	Y	✓	
Traffic	No change from EIS and modification assessed impact.	As per the Conditions of Approval	Y	✓	
Waste	No change from EIS and modification assessed impact.	As per the Conditions of Approval	Y	✓	
Social	No change from EIS and modification assessed impact.	Not applicable		✓	
Economic	No change from EIS and modification assessed impact.	Not applicable		✓	
Visual	There will be additional adverse visual impact associated with the kiosk substation to be located on the corner of Miller and McLaren Streets. This will be incorporated into Northern Facilities building.	As per existing Conditions of Approval.	Y	✓	
Urban design	No change from EIS and modification assessed impact.	Not applicable			
Geotechnical	No change from EIS and modification assessed impact.	Not applicable			
Land use	No change from EIS and modification assessed impact.	Not applicable			

(Uncontrolled when printed)

Aspect	Nature and extent of impacts (neg and pos) during construction (if control measures implemented) of the proposed /activity, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Climate Change	No change from EIS and modification assessed impact.	Not applicable			
Risk	No additional risks identified.	Not applicable			
Other	Not applicable	Not applicable			
Management and mitigation measures	No additional conditions of mitigation measures are required.	No additional conditions of mitigation measures are required.	Y	✓	

Impact Assessment – Operation

Attach supporting evidence in the Appendix if required. Make reference to the relevant Appendix if used.

Aspect	Nature and extent of impacts (negative and positive) during operation (if control measures implemented) of the proposed activity/works, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Flora and fauna	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Water	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Air quality	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Noise vibration	No change to the operational impacts described in the EIS and modification report.	Not applicable			

Aspect	Nature and extent of impacts (negative and positive) during operation (if control measures implemented) of the proposed activity/works, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Indigenous heritage	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Non-indigenous heritage	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Community and stakeholder	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Traffic	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Waste	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Social	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Economic	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Visual	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Urban design	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Geotechnical	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Land use	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Climate Change	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Risk	No change to the operational impacts described in the EIS and modification report.	Not applicable			



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Aspect	Nature and extent of impacts (negative and positive) during operation (if control measures implemented) of the proposed activity/works, relative to the Approved Project	Proposed Control Measures	Minimal Impact Y/N	Endorsed	
				Y/N	Comments
Other	No change to the operational impacts described in the EIS and modification report.	Not applicable			
Management and mitigation measures	No change to the operational impacts described in the EIS and modification report.	Not applicable			



Consistency with the Approved Project

Based on a review and understanding of the existing Approved Project and the proposed modifications, is there is a transformation of the Project?	No. The proposed works would not transform the project. The project would continue to provide a new metro rail line between Chatswood and Sydenham.
Is the project as modified consistent with the objectives and functions of the Approved Project as a whole?	Yes. The proposed works would be consistent with the objectives and functions of the approved project.
Is the project as modified consistent with the objectives and functions of elements of the Approved Project?	Yes. The changes identified in this assessment are temporary and are consistent with the objectives and functions of the Approved Project.
Are there any new environmental impacts as a result of the proposed works/modifications?	No new environmental risks are outstanding. All risks would be adequately addressed through the application of the mitigation measures in the above tables.
Is the project as modified consistent with the conditions of approval?	Yes. The proposed works would be consistent with the conditions of approval.
Are the impacts of the proposed activity/works known and understood?	Yes. The impacts of the proposed works are understood.
Are the impacts of the proposed activity/works able to be managed so as not to have an adverse impact?	Yes. The impacts of the proposed works can be managed so as to avoid an adverse impact.

Other Environmental Approvals

Identify all other approvals required for the project:	No additional environmental approvals are required.
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Author certification

To be completed by person preparing checklist.

I certify that to the best of my knowledge this Consistency Checklist:

- Examines and takes into account the fullest extent possible all matters affecting or likely to affect the environment as a result of activities associated with the Proposed Revision; and
- Examines the consistency of the Proposed Revision with the Approved Project; is accurate in all material respects and does not omit any material information.

Name:	Nicole Williams	Signature:	
Title:	Environmental Planning Manager		
Company:	TfNSW	Date:	27/10/2017

Environmental Representative Review

As an approved ER for the Sydney Metro City & Southwest project, I have reviewed this assessment. I am satisfied that mitigation measures are adequate to minimise the impact of the proposed work.

Name:	Jo Robertson	Signature:	
Title:	Environmental Representative	Date:	27/10/2017

This section is for Sydney Metro only.

Application supported and submitted by

Name:	Craig Tucker	Date:	27/10/2017
Title:	Environmental & Sustainability Manager TSE	Comments:	
Signature:			

Based on the above assessment, are the impacts and scope of the proposed activity/modification consistent with the existing Approved Project?

Yes The proposed activity/works are consistent and no further assessment is required.

No The proposed works/activity is not consistent with the Approved Project. A modification or a new activity approval/ consent is required. Advise Project Manager of appropriate alternative planning approvals pathway to be undertaken.



Endorsed by			
Name:	Fil Cerone	Date:	30/10/17
Title:	Director City & Southwest, Sustainability, Environment & Planning	Comments:	
Signature:			

Appendix A

Map showing Victoria Cross South Augmentation

Appendix B

Map showing Victoria Cross North Augmentation

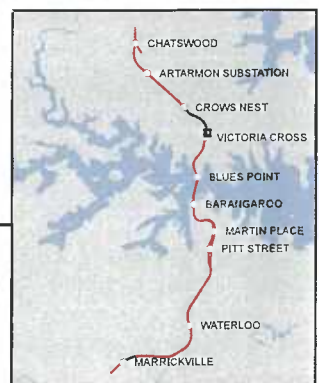


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Legend



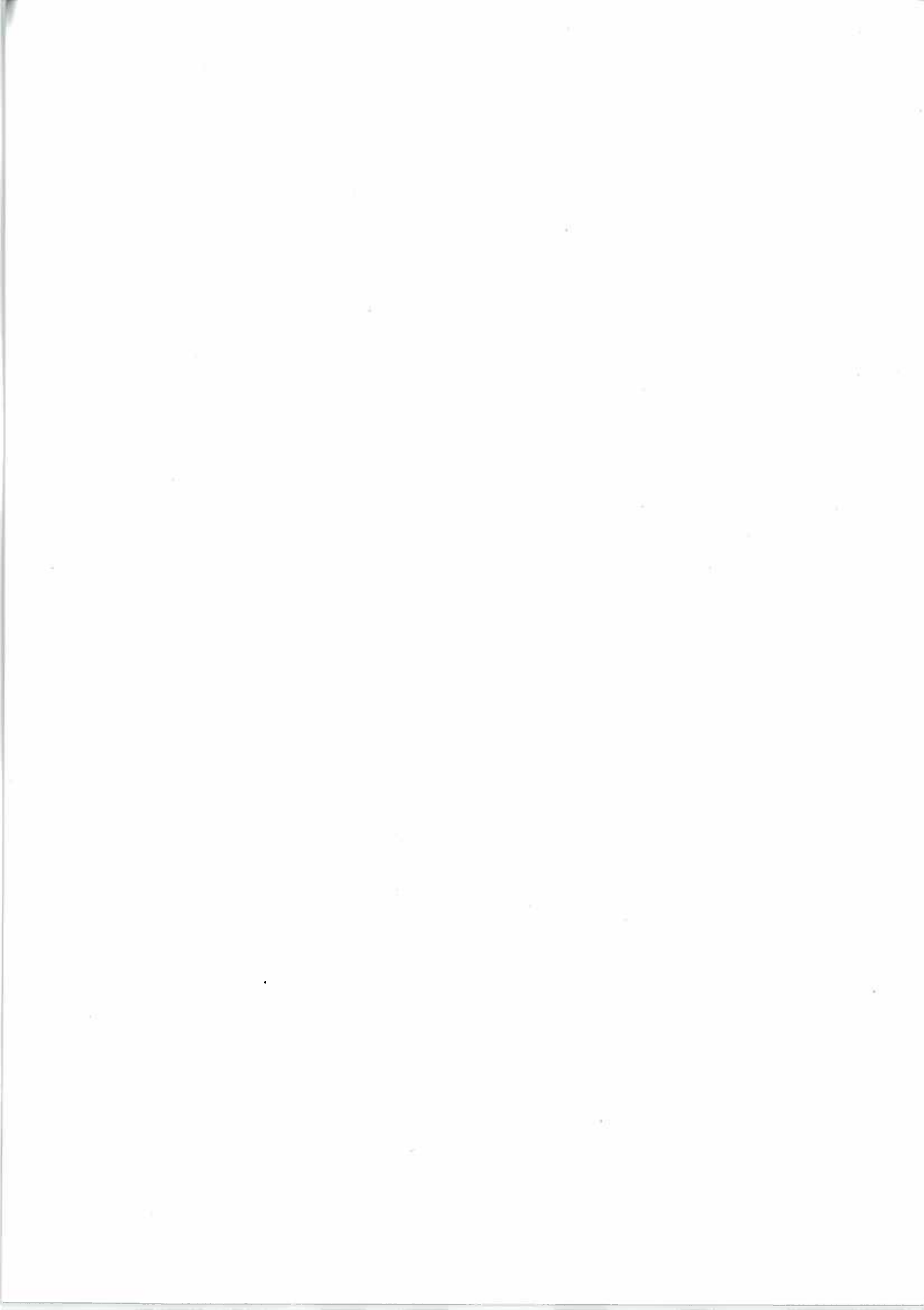
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- HV/LV Power Supply Route Relocation
- Sewer Adjustment
- Gas Relocation
- Trenching

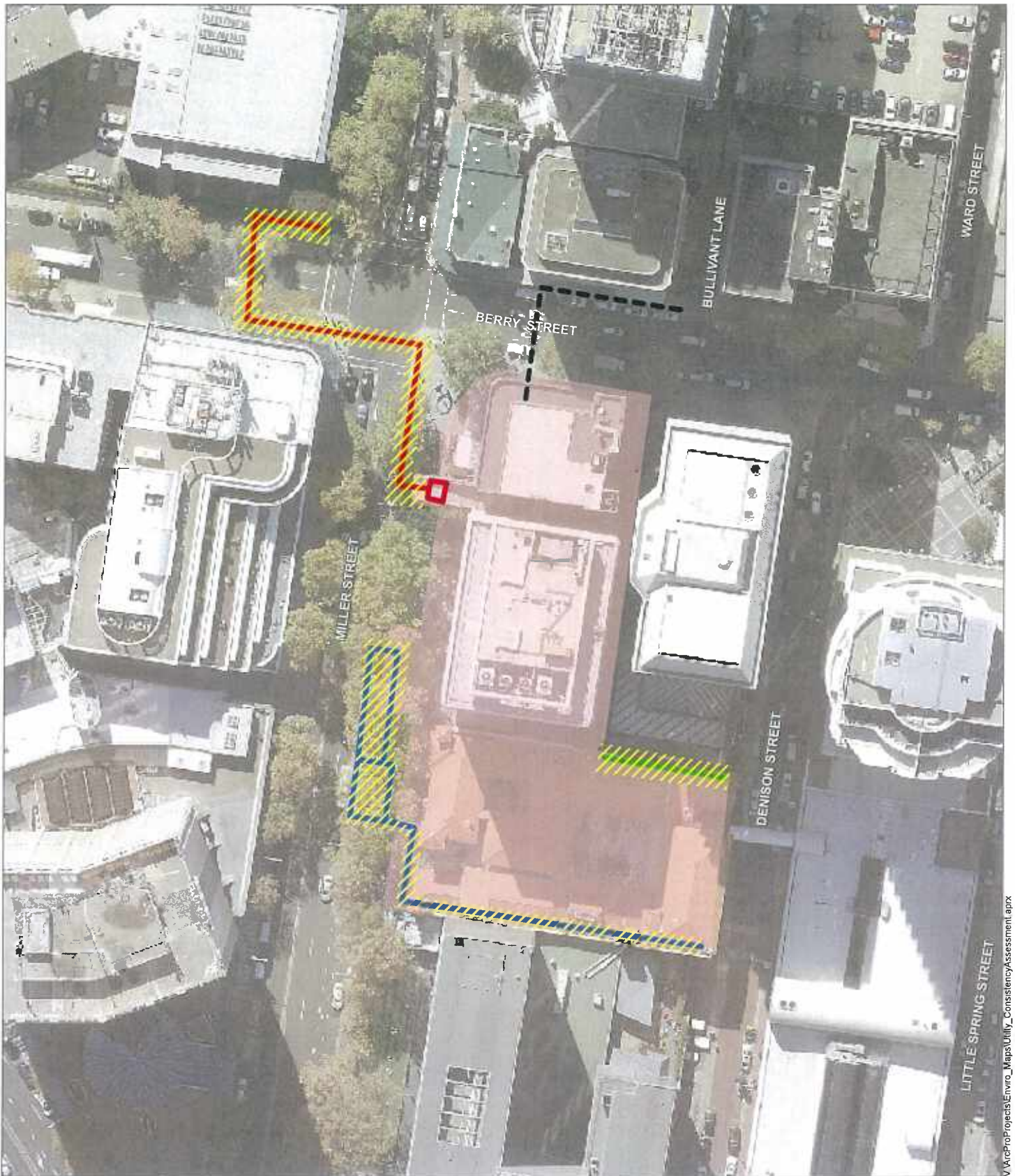


SYDNEY METRO CITY & SOUTHWEST -TSE WORKS
Utility Works- Consistency Assessment
 Victoria Cross North Worksite



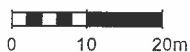
Sketch 3 of 14





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Legend



- Indicative Site Boundary
- Trenching
- HV/LV Power Supply Route EIS Proposed
- HV/LV Power Supply Route Relocation
- Sewer Adjustment
- Stormwater Adjustment

SYDNEY METRO CITY & SOUTHWEST -TSE WORKS
Utility Works- Consistency Assessment

Victoria Cross South Worksite



Sketch 4 of 14



