

Prepared for
UrbanGrowth NSW Development Corporation

2nd April 2019

BAYS PRECINCT WEST EAST

THE NEW SYDNEY FISH MARKETS

**Services Demolition and Removal
Report**

The new Sydney Fish Markets

Services Demolition and Removal Report

Client: UrbanGrowth NSW Development Corporation

ABN: 41 163 782 371

Prepared by

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Executive Summary

The NSW Government is currently developing the Bays Precinct new Sydney Fish Markets to be located at the head of Blackwattle Bay, adjacent to the existing fish market. Key stakeholders UrbanGrowth NSW Development Corporation (UrbanGrowth NSW) and the Sydney Fish Market Pty Ltd (SFM) have been working with the design team (3XN, BVN, and Aspect Studios) to develop design for the new Sydney Fish Market.

In order to successfully deliver this new development and support timely commencement of works in late 2018, a number of development applications require approval. Key to this is the need to address the Secretary's Environmental Assessment Requirements (SEAR's) section 18. *Utilities and infrastructure* clause.

To support compliance to this requirement, AECOM is engaged to provide a plan of demolition and decommissioning works for the development. This includes provision of decommissioning and removal plans for the existing substation located on site.

1.0 Introduction and Overview

1.1 Background

Sydney Fish Market is the largest of its kind in the Southern Hemisphere and among the three largest seafood markets in terms of variety in the world. The market sources product both nationally and internationally and trades approximately 14,500 tonnes of seafood annually with up to one hundred sustainable seafood species traded every day and approximately 500 species traded annually. The site attracts over 3 million visits each year. In November 2016 the NSW Premier announced a new Sydney Fish Market would be built at the head of Blackwattle Bay, adjacent to the existing fish market. In June 2017 the Premier of NSW announced the appointment of Danish architects 3XN to lead the design team that includes Sydney firms BVN and Aspect Studios. They have been working with key stakeholders, including UrbanGrowth NSW Development Corporation (UrbanGrowth NSW) and Sydney Fish Market Pty Ltd (SFM), to develop the design for the new Sydney Fish Market. As announced by the NSW Premier, works are planned to commence in 2019.

1.2 Site and context

The site is located at the head of Blackwattle Bay between the Pyrmont Peninsula and the foreshore of Glebe, situated less than 2km west of Sydney's CBD and is partially within the City of Sydney Local Government Area.

The land to which the development application relates comprises Lots 3 - 5 in DP 1064339 part of lot 107 in DP 1076596 and part Lot 1 in DP835794. Works to connect to the existing waterfront promenade to the west of the site are located on Lot 3 in DP1018801. The development footprint is irregular in shape and has an area of approximately 36,800m². The site is partly on land above mean high water mark and partly on water below mean high water mark.

The site has a frontage to Bridge Road to the south and Blackwattle Bay to the north. Pyrmont Bridge Road is an arterial road that links to the Anzac Bridge to the north west of the site. Sydney Secondary College Blackwattle Bay Campus is immediately south west of the site and the existing fish market immediately north east. Located directly opposite the site to the south is Wentworth Park, separated by Bridge Road.

Located approximately 400m walking distance from the site are the Fish Market, Wentworth Park, and Glebe Light Rail stops which are serviced by the Dulwich Hill Line which is a 23 stop, 12.8-kilometre route running from Dulwich Hill to Central station via Pyrmont.

The site contains one heritage item being the heritage stormwater culvert. The site is also near a number of heritage items.

The site's current uses include a concrete batching plant at the Western end and concrete hardstand and wharf area at the Eastern end, which is currently vacant. The site includes wharves and land-based structures. Part of the site is the water of Blackwattle Bay. Works will be undertaken on Bridge Road and its intersections with Wattle Street and Wentworth Park Road.

1.3 Approval Strategy

Pursuant to the provisions of the *Environmental Planning and Assessment Act 1979* and *State Environmental Planning Policy (State and Regional Development) 2011* ("SEPP SRD") the new Sydney Fish Market development is State Significant Development and the Minister for Planning is the consent authority.

To deliver the new Sydney Fish Market, the following applications will be lodged:

1. A concept development application seeking approval for concept proposals for the new Sydney Fish Market. This is to meet the requirements for a master plan contained in clause 40 of SREP26. This concept development application will also set out details of the first stage of the development being the demolition of land and water-based structures on the site including removal of marine piles and any resulting repairs to the existing sea wall;

2. A development application for the construction of the new Sydney Fish Market;
3. An application to amend the planning controls applying to the site to enable the proposed development to be a permissible use on all of the site. This is to be achieved by an amendment to *Sydney Regional Environmental Plan No 26—City West* ("SREP26").

These applications are lodged concurrently.

1.4 Summary of the development

The proposal is to build a new Sydney Fish Market with a contemporary urban design, provide unique experiences for visitors and world-class auction and wholesale facilities. The new facility will be set within an improved public domain including the creation of a waterfront promenade with improved access to Blackwattle Bay and linking to surrounding areas and to public transport.

The development will expand and improve the functions of the existing in a new setting designed to achieve design excellence, functional performance and environmental sustainability.

The new Sydney Fish Market will include retail and food and beverage premises, wholesale facilities and auction rooms, offices and commercial space, Sydney Seafood Schools, back-of-house facilities and car, truck and coach parking spaces. The new facility is to include a new foreshore promenade and wharves. The new Sydney Fish Market will be purpose built and will be supported by a state of the art back-of-house plant and recycling/waste management facilities.

1.4.1 Concept development application

The Concept development application seeks approval for:

1. the use of the site for the fish market including waterfront commercial and tourist facilities and ancillary uses and the distribution of uses;
2. a gross floor area of up to 30,000m² contained within a defined building envelope;
3. waterfront structures such as wharves;
4. concepts for improvements to the public domain including promenades, access to Blackwattle Bay and landscaping;
5. pedestrian cycle and road access and circulation principles;
6. principles for infrastructure provision and waste management.

This concept development application will also set out details of the first stage of the development being the demolition of land and water-based structures on the site including removal of marine piles and any resulting repairs to the existing sea wall, and related services relocations.

1.4.2 Main Works development application

The Main Works development application seeks approval for:

1. the construction of a new Sydney Fish Market including land and water-based structures.
2. the use of the site for the fish market including waterfront commercial and tourist facilities and ancillary uses and the distribution of uses;
3. a gross floor area of approximately 26,000m² as calculated according to the definition of GFA under SREP 26 (approximately 25,600m² as calculated according to the definition of GFA under the Standard Instrument).
4. public domain works including promenades access to Blackwattle Bay and landscaping;
5. pedestrian, cycle and road access and circulation;
6. infrastructure provision and waste management;
7. associated works as required.

The proposed uses comprise:

Below Ground Level

- Parking for service and delivery, and private vehicles up to approximately 417 vehicles;
- Plant and storage;
- Waste Management facilities; and
- End of journey facilities.

Ground Level - Outside of Building Envelope

- Up to three operational wharves for fishing fleet servicing and product unloading/loading, multi-purpose wharf space, private-operated ferry stop, recreational vehicles and the like;
- Vehicular access driveways; and
- Publicly accessible promenade.

Ground Level - Within Building Envelope

- Wholesale services space including product storage and processing; and
- Auction floor and associated refrigeration and handling space.
- Loading dock including time-limited delivery and service vehicle parking area;
- Waste management facilities;
- Office space including buyers room;
- Staff amenities, plant and storage.

Upper Ground Level (L1)

- Retail premises including fresh food retail, food and drink premises including harbourside dining;
- External/shared dining space;
- Ancillary back of house space and staff amenities; and
- Circulation areas.

Upper Level 2 (Mezzanine)

- Catering space;
- The Sydney Seafood School;
- Tenant and subtenant office space; and
- Plant and storage space.

1.5 Purpose of this Report

The purpose of this report is to address the SEARs, 18. *Utilities and infrastructure*:

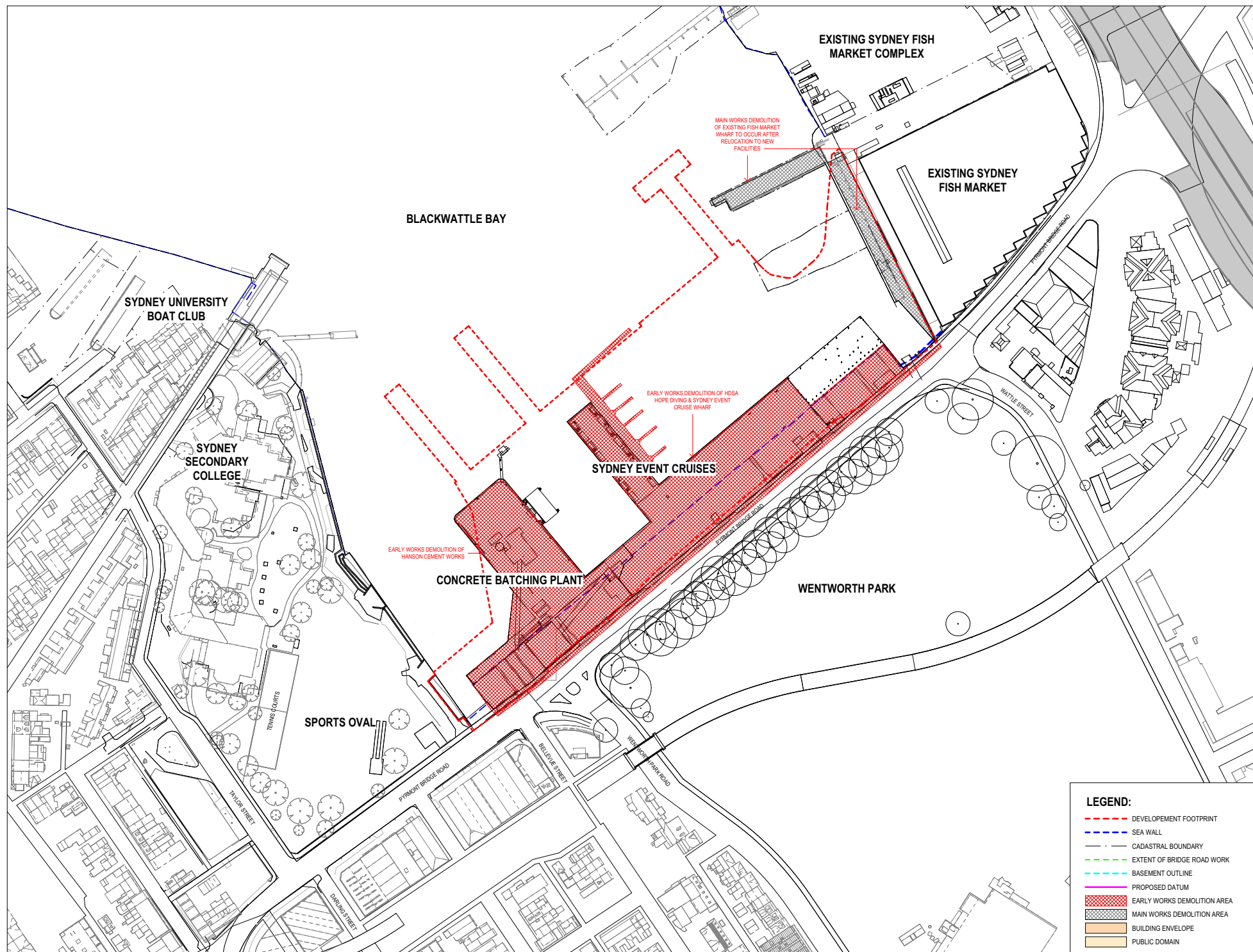
- *Address the existing capacity and any required upgrades of utilities and infrastructure including staging of infrastructure.*

2.0 Scope of Works

SSD 8924 covers the stage 1 works comprising of:

- Demolition; and
- Early works.

The early works package includes the removal of existing services to support the demolition works, the draft demolition plan is shown in Figure 1.



3.0 Summary of Existing Services

3.1 Dial Before You Dig Plans

Dial Before You Dig requests were undertaken for the Bays Market District. These identified a number of services as outlined below in Table 1.

Table 1 Summary of Existing Services

Authority Name	Phone	Utility Type
AAPT / PowerTel, NSW	1800786306	Data and Telecommunications
Nextgen, NCC - NSW	1800032532	Data and Telecommunications
Optus and/or Ucomm, Nsw	1800505777	Data and Telecommunications
PIPE Networks, Nsw	1800201100	Data and Telecommunications
Telstra NSW, Central	1800653935	Data and Telecommunications
Verizon Business (Nsw) ¹	294345000	Data and Telecommunications
Vocus Fibre Pty Ltd (NSW)	731770796	Data and Telecommunications
Ausgrid	249510899	Electricity
Jemena Gas South	1300880906	Gas
City of Sydney (IMS)	292659819	Other
RailCorp Central	297528682	Other
Roads and Maritime Services	288370285	Other
Sydney Water	132092	Potable Water and Wastewater

The plans provided from these DBYD requests were assessed as a part of our condition and capacity review.

3.2 Electrical

The existing Ausgrid electrical infrastructure on the site has been identified based on Dial Before You Dig (DBYD) records. Electrical assets within and surrounding the Fish Market site includes the following:

Existing Substation 1608;

- Existing LV supply for lighting on Bridge Road;
- A number of High Voltage electrical cables and conduits along Bridge Road; and
- A 33kV transmission line that runs parallel to the site across Wentworth Park.

The exact depths and positions of the existing reticulation mains are unknown thus further investigation are required to determine the exact existing layout.

It is expected that all existing aerial infrastructure within each development site would be abandoned or relocated underground. This will include the undergrounding of existing aerial infrastructure along Bridge Road.

¹ Verizon has indicated no assets in the Wentworth Park area.

3.3 Data and Telecommunications

The new Sydney Fish Market location is in close proximity to several of the main Sydney data centres including a significant global interconnect at Ultimo. Telecommunication providers that are present onsite include:

- NBN Co;
- Telstra; and
- Optus.

3.4 Wastewater

The existing Sydney Water wastewater network has been identified based on Dial Before You Dig (DBYD) records. These indicate the presence of a number of existing wastewater mains throughout the district.

Wastewater is directed toward a sewerage pump station on the corner of Pyrmont Bridge Road and Wattle Street, which delivers wastewater to the Bondi Sewerage Treatment Plant.

The existing internal wastewater network primarily consists of a number of wastewater mains present along the perimeter of the site, including:

- Existing DN150mm VC and DN300mm connections from the pre-development site;
- A DN375mm CI main along Pyrmont Bridge Road from Darling Street to Wattle Street; and
- A DN450mm GRP main along Pyrmont Bridge Road between Wattle Street and Jones Street.

Similar to the potable water network, the exact depths and positions of the existing reticulation mains are unknown.

Further investigation is required to determine the exact layout and depths of these services; this should be an investigation of the levels of the existing infrastructure from manhole surveys. It is also noted that the above discussion only considers Sydney Water infrastructure.

3.5 Potable Water

The existing Sydney Water potable water network adjacent to the new Sydney Fish Market site has been identified based on Dial Before You Dig (DBYD) records. These records indicate the presence of numerous potable water mains adjacent to the development boundary.

Key existing potable network infrastructure includes:

- A DN200mm DICL main along Pyrmont Bridge Road parallel to the site;
- A DN150 CICL on Wentworth Park Road; and
- A DN200 CICIL on Wattle Street;

The depths and position of the existing reticulation mains are unknown, further consultation with Sydney Water is required to determine the exact existing layout and potential impacts of the design on the existing network.

The main trunk mains adjacent to the development site are:

- A DN600mm CICL trunk main running along Bulwarra Road; and
- A DN300mm CICL trunk main at the intersection of Bridge Road and Glebe Point Road.

3.6 Gas

There is currently a small network of gas mains adjacent to the proposed development, in particular:

- Network mains along Bridge Road, Wattle Street and Darghan Lane.

4.0 Decommissioning of Existing Services

The below outlines services decommissioning works included in the early works package, it is anticipated that additional services works to re-align existing underground services and to augment lead-in services will be required post demolition for the main building works.

4.1 Electrical

Decommissioning of the existing substation 1608 (Bridge Wentworth) and all associated infrastructure is require to facilitate future works. All additional private mains on site will require decommissioning also.

4.1.1 Decommissioning of Existing Substation 1608 (Bridge Wentworth)

Permanent disconnection of the existing substation and supply from 1B Bridge Road, Glebe requires is required. AECOM have received design information and decommissioning recommendations from Ausgrid as part of project number SC12423. A draft plan for the decommissioning of the substation has been developed based on the following documents from Ausgrid:

- Asbestos and Lead Building Materials Audit (S.1608) for Bridge Wentworth Substation; and
- Design Information (S.1608) for Bridge Wentworth Substation.

The following is a summary of the draft plan and recommended decommissioning actions based on the aforementioned documents:

- All recoverable materials from the decommissioning of the chamber substation must be returned to Ausgrid (transformer(s), switchgear, protection equipment and etc.);
- Disconnection is ideally to be achieved by cutting away the substation and preforming a straight through joint on the 11kV feeder in pit 50382. It is recommended this pit is inspected to confirm that jointing works are possible; and
- A new open point is to be established at S.7245 Little Mount Miller switch B.

A plan of the proposed removal works is shown below in Figure 2 while a detailed L3 decommissioning plan can be found in Appendix A.

4.2 Potable Water

Existing potable water connections to the site should be capped and decommissioned, including any private services.

4.3 Wastewater

There are existing DN150mm VC and DN300mm wastewater reticulation pipes connecting to the site that require decommissioning. All additional private mains on site will require decommissioning also as shown in Figure 3.

4.4 Telecommunications

Existing on site telecommunications conduits are to be removed to facilitate future works on site, this includes the existing cables and conduits shown in Figure 4 as well as potential aerial telecommunications that will have the be undergrounded along with the electrical poles and wiring.

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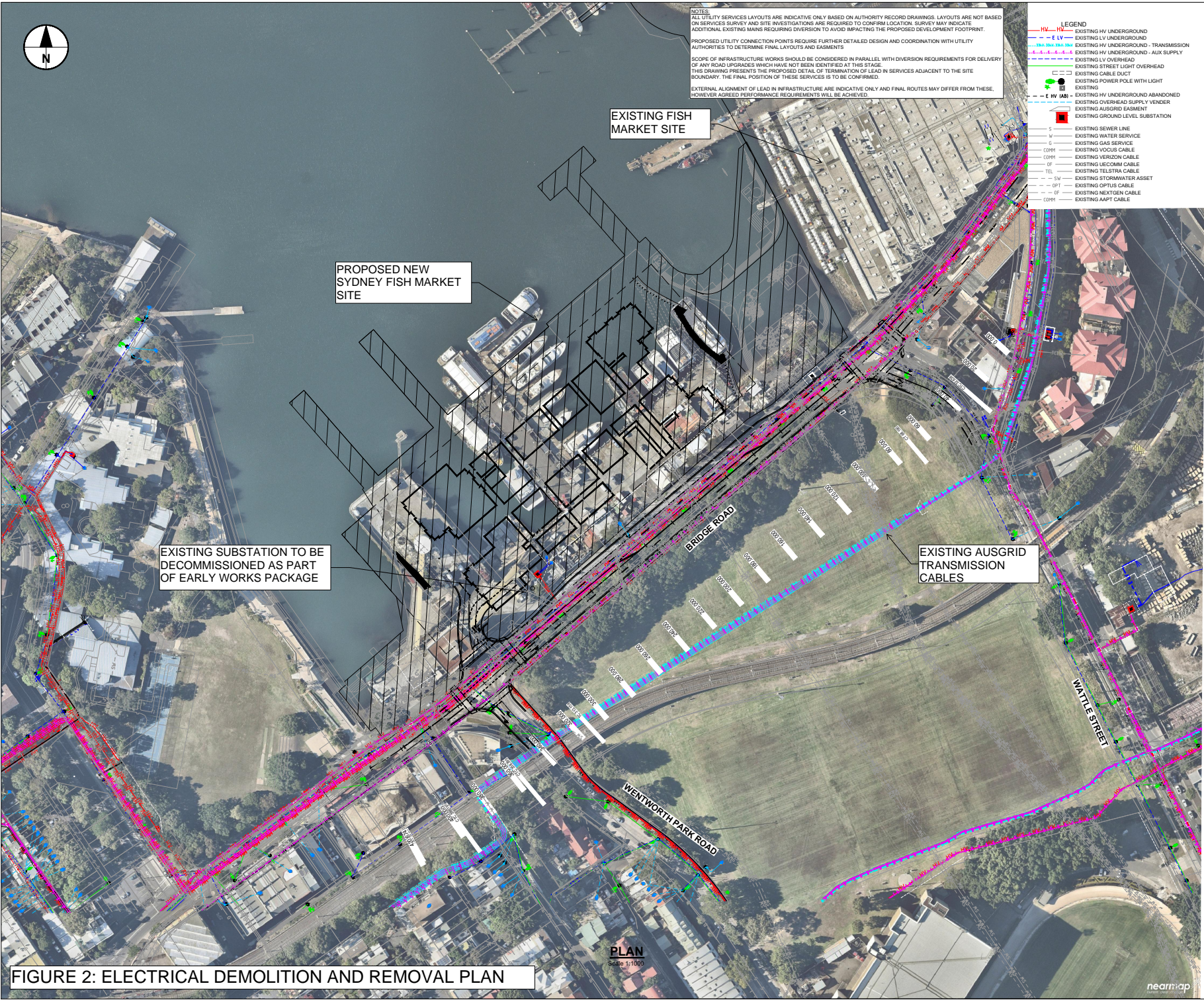


FIGURE 2: ELECTRICAL DEMOLITION AND REMOVAL PLAN

NOTES:
ALL UTILITY SERVICES LAYOUTS ARE INDICATIVE ONLY BASED ON AUTHORITY RECORD DRAWINGS. LAYOUTS ARE NOT BASED ON SERVICES SURVEY AND SITE INVESTIGATIONS ARE REQUIRED TO CONFIRM LOCATION. SURVEY MAY INDICATE ADDITIONAL EXISTING MAINS REQUIRING DIVERSION TO AVOID IMPACTING THE PROPOSED DEVELOPMENT FOOTPRINT.
PROPOSED UTILITY CONNECTION POINTS REQUIRE FURTHER DETAILED DESIGN AND COORDINATION WITH UTILITY AUTHORITIES TO DETERMINE FINAL LAYOUTS AND EASMENTS
SCOPE OF INFRASTRUCTURE WORKS SHOULD BE CONSIDERED IN PARALLEL WITH DIVERSION REQUIREMENTS FOR DELIVERY OF ANY ROAD UPGRADES WHICH HAVE NOT BEEN IDENTIFIED AT THIS STAGE.
THIS DRAWING PRESENTS THE PROPOSED DETAIL OF TERMINATION OF LEAD IN SERVICES ADJACENT TO THE SITE BOUNDARY. THE FINAL POSITION OF THESE SERVICES IS TO BE CONFIRMED.
EXTERNAL ALIGNMENT OF LEAD IN INFRASTRUCTURE ARE INDICATIVE ONLY AND FINAL ROUTES MAY DIFFER FROM THESE, HOWEVER AGREED PERFORMANCE REQUIREMENTS WILL BE ACHIEVED.

- LEGEND
- HV — HV — EXISTING HV UNDERGROUND
 - LV — LV — EXISTING LV UNDERGROUND - TRANSMISSION
 - LV — LV — EXISTING LV UNDERGROUND - AUX SUPPLY
 - LV — LV — EXISTING LV OVERHEAD
 - LV — LV — EXISTING STREET LIGHT OVERHEAD
 - LV — LV — EXISTING CABLE DUCT
 - LV — LV — EXISTING POWER POLE WITH LIGHT
 - LV — LV — EXISTING
 - LV — LV — EXISTING HV UNDERGROUND ABANDONED
 - LV — LV — EXISTING OVERHEAD SUPPLY VENDOR
 - LV — LV — EXISTING AUSGRID EASMENT
 - LV — LV — EXISTING GROUND LEVEL SUBSTATION
 - LV — LV — EXISTING
 - LV — LV — EXISTING SEWER LINE
 - LV — LV — EXISTING WATER SERVICE
 - LV — LV — EXISTING GAS SERVICE
 - LV — LV — EXISTING VOCUS CABLE
 - LV — LV — EXISTING VERIZON CABLE
 - LV — LV — EXISTING UCOMB CABLE
 - LV — LV — EXISTING TELSTRA CABLE
 - LV — LV — EXISTING STORMWATER ASSET
 - LV — LV — EXISTING OPTUS CABLE
 - LV — LV — EXISTING NEXTGEN CABLE
 - LV — LV — EXISTING AAPT CABLE

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DESIGNER	CHECKED	APPROVED

ISSUE/REVISION

A	21/02/2018	ISSUED FOR REVIEW
VR	DATE	DESCRIPTION

KEY PLAN

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PROJECT NUMBER
60554003

SHEET TITLE
UTILITIES LAYOUT
PLAN
AUSGRID SERVICES

SHEET NUMBER
CD-0000-UT-0101

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FIGURE 3: WASTEWATER DEMOLITION AND REMOVAL PLAN

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Sydney Fish Markets

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ISSUE/REVISION

A	21/02/2018	ISSUED FOR REVIEW
IR	DATE	DESCRIPTION

KEY PLAN

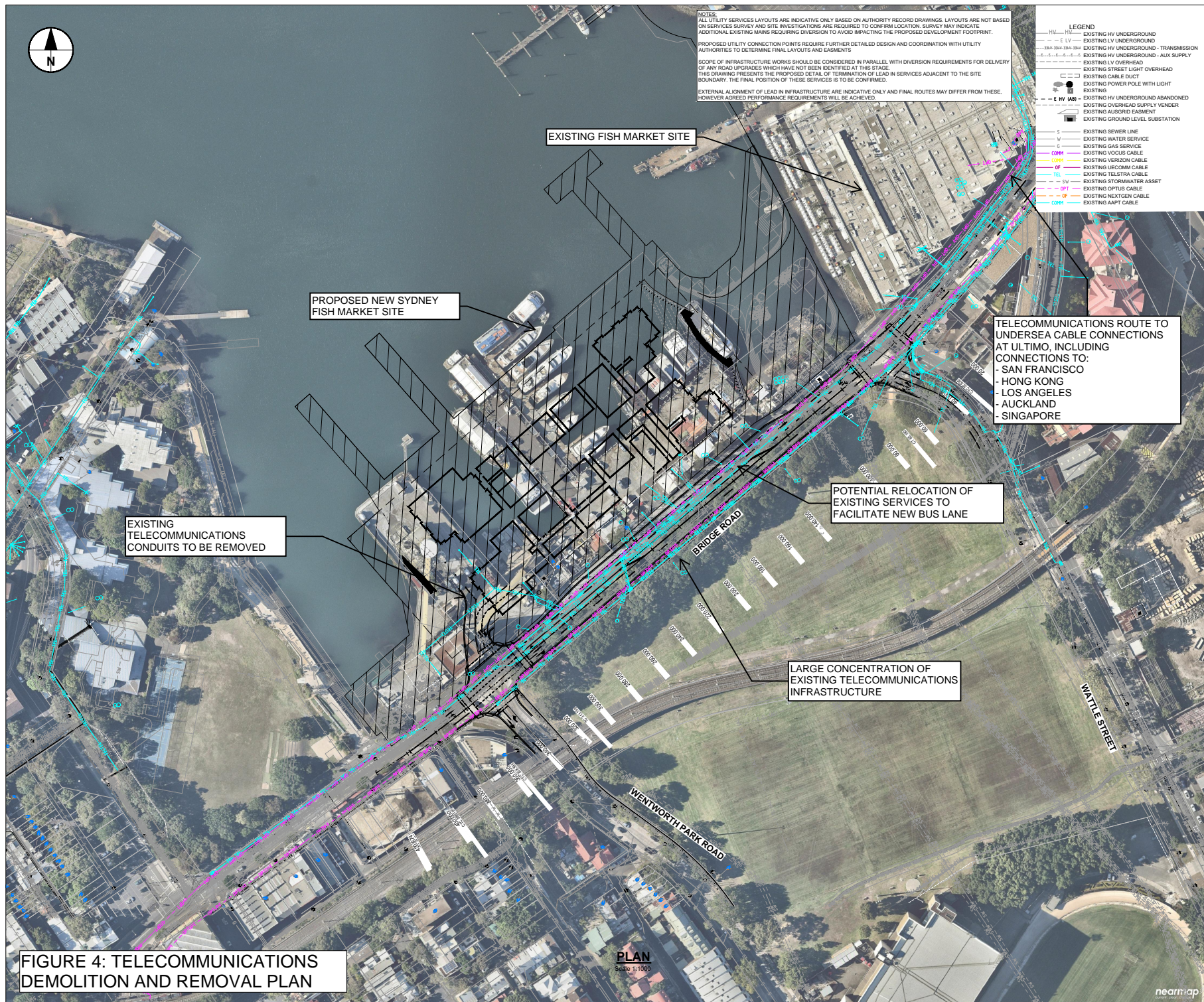
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PROJECT NUMBER
60554003

SHEET TITLE
UTILITIES LAYOUT
PLAN
WASTEWATER

SHEET NUMBER
CD-0000-UT-0131

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5.0 Environmental Risk Assessment

AECOM have considered a number of environmental risks that are present due to the decommissioning and removal of utilities to be completed adjacent to and on the fish markets development site on Bridge Road. Potential mitigation measures for these environmental risks have also been identified in Table 2 below.

5.1 Potential Environmental Risks and Mitigation Measures

Table 2 Risks and Mitigation Measures

Risk	Mitigation
Impacts with existing utilities in densely occupied service corridor	<ul style="list-style-type: none"> All services within the site are to be located prior to construction works. Confirm clearances between services and develop works plan
Impacts to traffic	<ul style="list-style-type: none"> Partial road closures may be required to gain access to pits and facilitate safe excavation and removal of existing utilities. Implement Traffic Management plan and obtain all necessary road occupancy permits to facilitate safe access and excavation in road areas.
Removal and disposal of materials containing asbestos from substation	<ul style="list-style-type: none"> Asbestos and lead containing materials have been identified within the substation as per the Ausgrid Asbestos and Lead Report. Removal of asbestos containing material is recommended by a Class A (friable) or Class B (non-friable) licensed contractor. A Licensed Asbestos Assessor should be engaged to control asbestos fibre air monitoring during clearance works.
Removal and disposal of materials containing lead from substation	<ul style="list-style-type: none"> Lead containing paints may be disposed of attached to the substrates if they are in good condition. If the lead containing paints are chalking or delaminated, the paint residues should be removed in accordance with AS4361.2 (1995) Guide to Lead Paint Management. Part 2: Residential and Commercial Buildings and waste must be disposed of as a lead containing material in accordance with EPA requirements. An occupational hygienist should be engaged to conduct lead dust air monitoring during clearance works.
Oil contamination and leaks from transformer	<ul style="list-style-type: none"> Bund containment Installation of a sewer line leading to a HumeCeptor containment facility and a large spill overflow storage tank
Hydrology and water quality impacts due to harbourside location	<ul style="list-style-type: none"> Capture concrete residue and prevent concrete or soil wash-down Bund and cover residue stockpiles to minimise offsite migration of material Exposed trenches and excavations should be covered to prevent water entry if they cannot be backfilled before work ceases for the day.

6.0 Conclusion

AECOM has addressed existing and proposed utilities arrangements for the fish markets development site in support of the SEAR's requirement 18. Utilities and infrastructure requirement for State Significant Developments. A summary of the study requirements and relevant sections that have been addressed is combined below in Table 3.

Table 3: SEARS Response Table

Condition	Relevant Sections
Address the existing capacity and any required upgrades of utilities and infrastructure, including staging of infrastructure.	<ul style="list-style-type: none">Section 2 and 3 and associated figures

In addressing the above SEAR's requirement, AECOM recommends that a number of lead in and public electrical, telecommunications, and wastewater assets are removed from the site in preparation for the early works.

Particular emphasis is placed on the removal of the existing Ausgrid substation 1608 (Bridge Wentworth) due to the identification of lead paint and asbestos materials on site.

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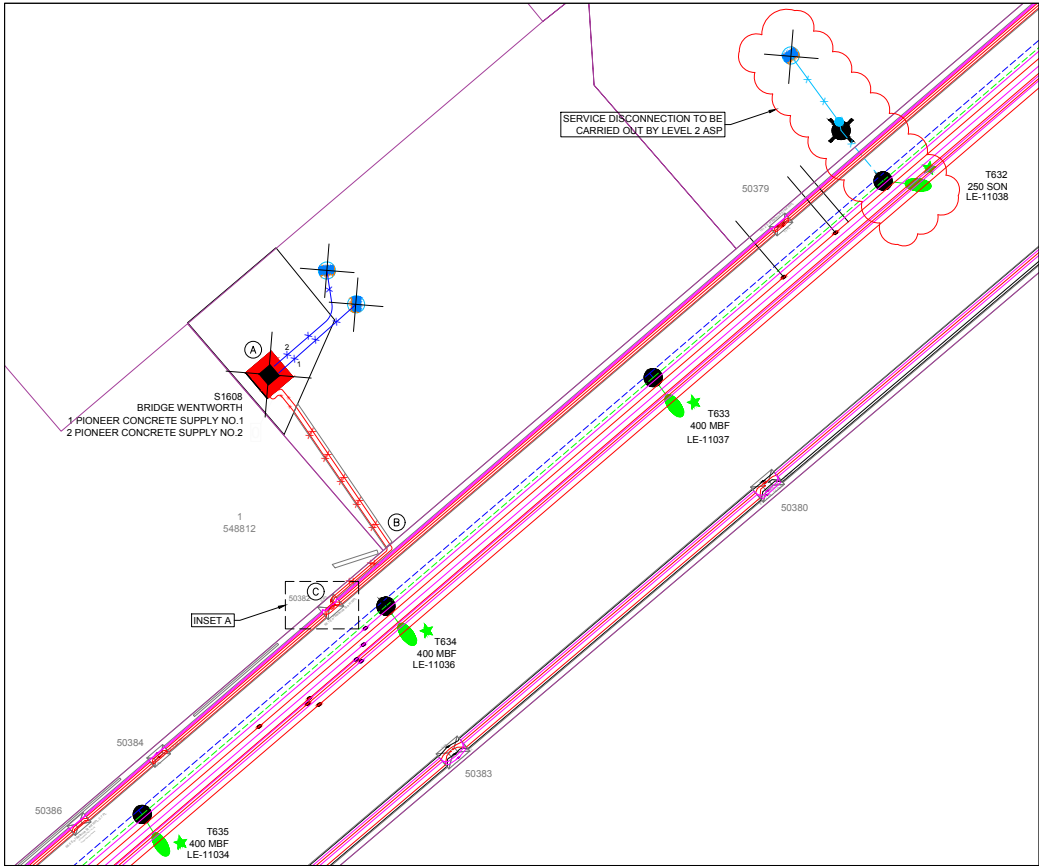
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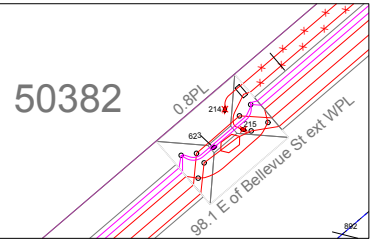
Appendix A

Figures

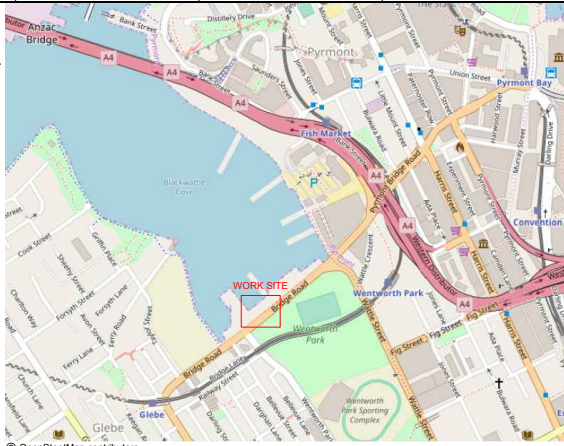
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING



SITE PLAN
SCALE 1:250



INSERT
SCALE 1:50



LOCALITY PLAN
NOT TO SCALE

NOTES:

AUSGRID PROJECT DNP7284 - BLACK WATER BAY CONSTRUCTION IS ACCORDING CONCURRENTLY WITH THIS PROJECT. CONFIRM THE STATUS OF THE HV NETWORK BEFORE CARRYING OUT.

NOTES:

1. THE ASP1 IS RESPONSIBLE FOR UNDERTAKING SATISFACTORY CONSULTATION WITH ALL LOCAL CUSTOMERS WHO MAY POTENTIALLY BE AFFECTED BY THE CONSTRUCTION WORKS INCLUDING ALL ALTERATIONS TO SERVICE MAINS. ASP1 TO NOTIFY COUNCIL REGARDING THESE WORKS.
2. DETAILED PLANS OF ALL UTILITY CONSTRUCTIONS MUST BE OBTAINED PRIOR TO UNDERTAKING ANY EXCAVATIONS. MACHINE EXCAVATION MUST NOT BE USED IN THE VICINITY OF LIVE ELECTRICITY CABLES.
3. ONLY RELEVANT CONSTRUCTION IS SHOWN. ALL LENGTHS ARE INDICATIVE ONLY FOR THE PURPOSE OF ESTIMATING SHOULD BE CONFIRMED ON SITE.
4. ALL WORK TO BE UNDERTAKEN IN ACCORDANCE WITH ALL RELEVANT AUSGRID NETWORK STANDARDS AND THE NECESSARY SAFETY, TRAFFIC AND ENVIRONMENTAL MEASURES.
5. CLAIMS FOR VARIATIONS TO THE COST OF NON-CONTESTABLE WORKS, INCLUDING ROCK EXCAVATION, WILL NOT BE ACCEPTED UNLESS VERIFIED ON SITE BY AUSGRID WHILE THE WORKS ARE IN PROGRESS.
6. THE ASP1 MUST MINIMISE THE IMPACT OF THE WORKS ON THE ELECTRICITY SUPPLY TO CUSTOMERS AND INTERRUPTIONS TO SUPPLY MUST BE AVOIDED, WHERE POSSIBLE. UNLESS THE ASP1 CAN PROVIDE AUSGRID WITH WRITTEN AGREEMENT FROM THE AFFECTED CUSTOMER(S), THEN AUSGRID MAY REQUIRE THE ASP1 TO PROVIDE A GENERATOR(S) IN ORDER TO MAINTAIN SUPPLY TO CUSTOMERS BEING INTERRUPTED. WHERE INTERRUPTIONS ARE PERMITTED, AT LEAST (4) FOUR DAYS NOTICE MUST BE PROVIDED TO ALL AFFECTED CUSTOMERS PRIOR TO ANY PLANNED INTERRUPTIONS TO THE ELECTRICITY SUPPLY. NOTICE MUST BE IN WRITING IN ACCORDANCE WITH CLAUSE 90 OF THE NATIONAL ENERGY RETAIL RULES.
7. SPECIFIC PRIOR APPROVAL MUST BE SOUGHT FROM AUSGRID FOR ANY PLANNED ELECTRICITY SUPPLY INTERRUPTIONS WHERE THE PLANNED INTERRUPTION WILL EXCEED ONE (1) HOUR IN DURATION OR THE DURATION WILL BE LESS THAN ONE HOUR, BUT SUITABLE TIME FOR THE INTERRUPTIONS CANNOT BE MUTUALLY AGREED TO WITH AFFECTED CUSTOMER(S).
8. ASP1 MUST TAKE APPROPRIATE SAFETY AND ENVIRONMENTAL PRECAUTIONS AND ARRANGE FOR THE APPROPRIATE LICENCES AND AUTHORISATIONS IN HANDLING AND TRANSPORTING HAZARDOUS EQUIPMENT AND ANY OIL FILLED EQUIPMENT TO ENSURE COMPLIANCE WITH RELEVANT LEGISLATION AND AUSGRID'S NUS174 ENVIRONMENTAL PROCEDURES.
9. THE ASP1 IS TO MAINTAIN ADEQUATE PUBLIC LIGHTING LEVELS FOR THE DURATION OF THE WORKS. IF NECESSARY, THE ASP1 IS TO ARRANGE FOR SUITABLE TEMPORARY STREET LIGHTING TO BE PROVIDED UNTIL PERMANENT LIGHTING IS RE-ESTABLISHED.
10. THE ASP1 IS TO CO-ORDINATE THE MODIFICATION AND TESTING OF ANY REQUIRED PROTECTION RELAY WITH THE AUSGRID TECHNICAL SERVICES GROUP.

WARNING

- THIS DESIGN CANNOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THE LOCATION OF ALL EXISTING SERVICES IS VERIFIED.
- THE INFORMATION PROVIDED IN THIS DESIGN MUST BE CHECKED ON SITE AND THE MOST CURRENT INFORMATION ON THE CONFIGURATION OF ALL SERVICES, INCLUDING AUSGRID'S NETWORK, MUST BE VERIFIED IMMEDIATELY BEFORE CONSTRUCTION COMMENCES BY CONTACTING DIAL-BEFORE-YOU-DIG BY TELEPHONE ON 1100 OR AT www.1100.com.au.
- DIAL-BEFORE-YOU-DIG INFORMATION MUST NOT BE OLDER THAN 20 BUSINESS DAYS AT THE TIME OF CONSTRUCTION.

ASP LEVEL 2 WORK

ALL LEVEL 2 ASP WORK DEPICTED ON THIS DRAWING IS SHOWN FOR INFORMATION PURPOSES ONLY AND DOES NOT FORM PART OF THE CERTIFIED DESIGN.

SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

NO
YES

DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN IN THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON THE SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.

UNDERGROUND CONSTRUCTION WORKS SCHEDULE (INSERT DETAILS OF UNDERGROUND DESIGN SOFTWARE USED)							
REF. IDENTIFIER	ROUTE DISTANCE (m)	CIRCUIT VOLTAGE	CONDUCTOR OR ASSET DETAIL	CONDUCTOR CODE / STOCK CODE	MIN. INTERNAL BENDING RADIUS (mm) DURING INSTALLATION	MIN. INTERNAL BENDING RADIUS (mm) AFTER INSTALLATION	CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION
A	-	HV	SUBSTATION S1608	-	-	-	-
A-B	17	HV	2 x 11kV 194 CU1 PL (TRIPLEX)	250	-	-	-
B-C	7	HV	2 x 11kV 194 CU1 PL (TRIPLEX)	250	-	-	-
C	-	HV	2 x POT END (LIVE END SEAL, HV1-35)	250	-	-	-

CAD DRAWING APPENDMENTS		PROPOSED EXISTING		PROPOSED EXISTING		PROPOSED EXISTING		PROPOSED EXISTING	
Pole	○	Pole-to be removed	●	UGOH Pot End	◀	UGOH Pot End	▶	UGOH Pot End	▶
SL Standard	⊗	USL	⊗	Joint	◊	Sealed End	◊	Joint	◊
Pillar Standard	⊗	ABS	⊗	Conduit	▬	UG Cables	▬	UG Cables	▬
LV Link Pillar	⊗	IDT	⊗	OH Lines	▬	UG Cables	▬	OH Lines	▬
Streetlight	⊗	Kiosk Sub	⊗	~HV~	~HV~	~LV~	~LV~	~LV~	~LV~
Streetlight-PEC	⊗	Chamber Sub	⊗	~SL~	~SL~	~SV~	~SV~	~SV~	~SV~
Streetlight-replacement	⊗	Pole Sub	⊗	~SV~	~SV~	~SV~	~SV~	~SV~	~SV~
		Two Pole Sub	⊗						

AECOM
AECOM Australia Pty Ltd
ABN 20 993 846 925

ASP REF: 60554003-DRG-EL-1001

CERTIFICATION NUMBER

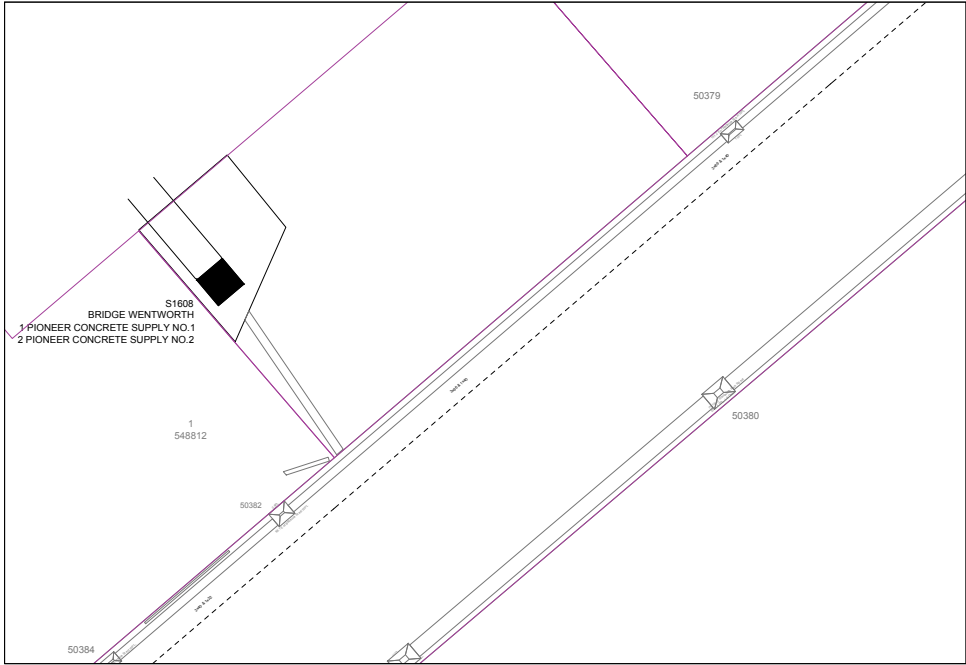
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AUTH NO: 2367/07
SUBMIT DATE: / /
LGA: CITY OF SYDNEY
MAP REF: MAP12 KB
AUSGRID REF: L234
PRJ/TRAFF No:

DECOMMISSION OF S.1608
FISH MARKET REDEVELOPMENT
BRIDGE RD, GLEBE

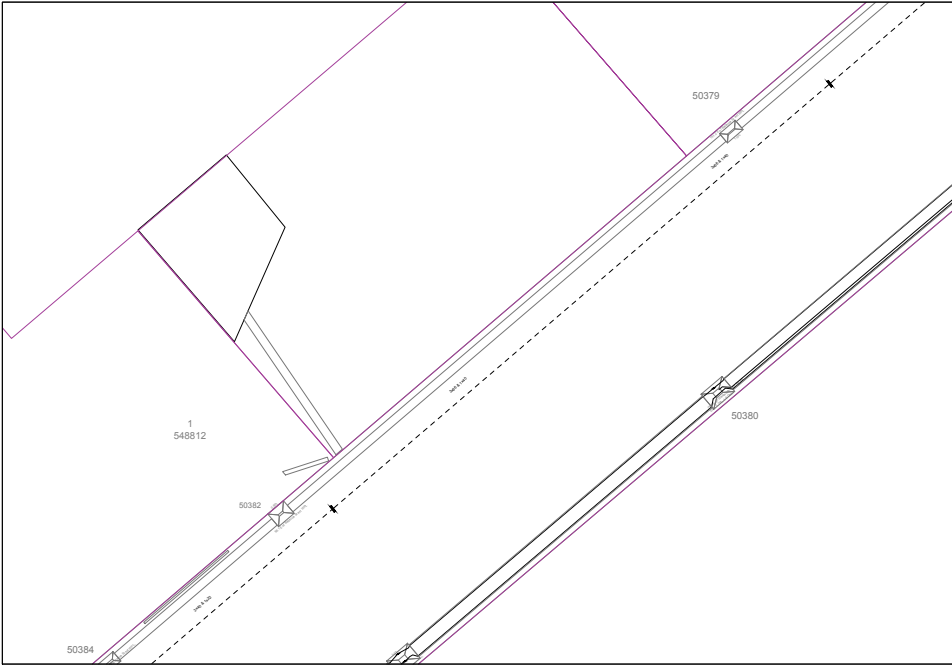
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SIZE: A1
AUSGRID PROJECT No.

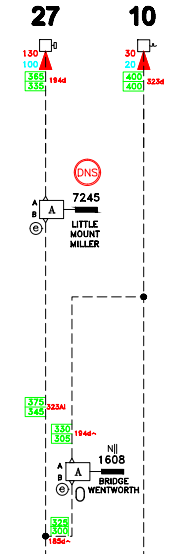
SHEETS: 1 of 2
APP: 0



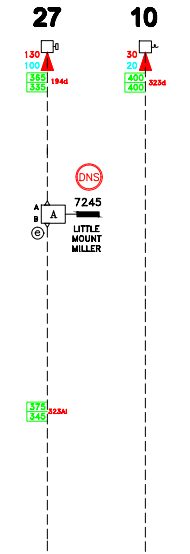
LV NETWORK PLAN - EXISTING
NOT TO SCALE



LV NETWORK PLAN - PROPOSED
NOT TO SCALE



BLACKWATER BAY ZONE No 22 (1 OF 2)
HV SCHEMATIC - EXISTING
NOT TO SCALE



BLACKWATER BAY ZONE No 22 (1 OF 2)
HV SCHEMATIC - PROPOSED
NOT TO SCALE

ASP LEVEL 2 WORK

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SAFETY IN DESIGN INFORMATION

ARE THERE ANY ADDITIONAL HAZARDS / RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO
☐ YES

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CAD DRAWING
APPENDIX

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