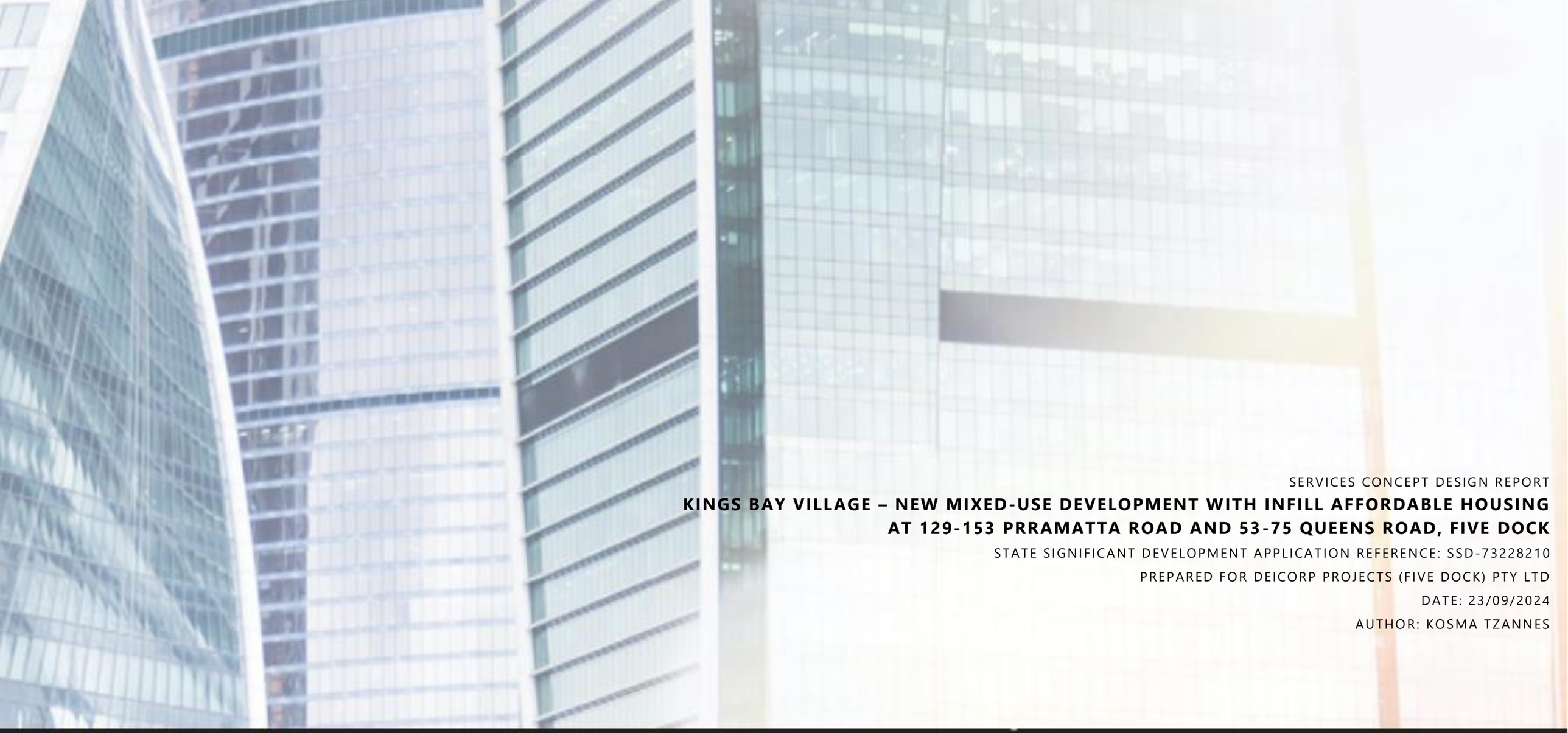

SERVICES CONCEPT DESIGN REPORT

KINGS BAY VILLAGE – NEW MIXED-USE DEVELOPMENT WITH INFILL AFFORDABLE HOUSING AT 129-153 PRRAMATTA ROAD AND 53-75 QUEENS ROAD, FIVE DOCK

STATE SIGNIFICANT DEVELOPMENT APPLICATION REFERENCE: SSD-73228210

PREPARED FOR DEICORP PROJECTS (FIVE DOCK) PTY LTD

DATE: 23/09/2024

AUTHOR: KOSMA TZANNES

LEVEL 3 ASP SERVICE

JHA

JHASERVICES.COM

DOCUMENT CONTROL SHEET

Title	Parramatta Road Five Dock
Own Centre	240242
Description	Services Concept Design Report – ASP3
Key Contact	Hadi Jalgha

Prepared By

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Deicorp	**REV**	P1	A						
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	REV								
	DATE								
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	DATE								

ABBREVIATIONS

Abbreviation	Meaning
SSD	State Significant Development
DA	Development Application
EP&A	Environmental Planning and Assessment Act
SEARs	Secretary's Environmental Assessment Requirements
EIS	Environmental Impact Statement
USIA	Utility Services Infrastructure Assessment
SICEEP	Sydney International Convention, Exhibition and Entertainment Precinct
CBD	Central Business District
TfNSW	Transport for NSW
DBYD	Dial-Before-You-Dig
GIS	Geographic Information System
BMU	Building Maintenance Units
HV	High Voltage
LV	Low Voltage
Aux	Auxiliary
DIP	Design Information Package
A	Amperes
V	Volts
kVA	Kilovolt Ampere
MVA	Megavolt Ampere
kPa	Kilopascal
FRL	Fire Resistance Level in minutes (Structure Adequacy / Integrity / Insulation)
3hr Fire Rating	FRL 180/180/180
hr	Hour
m	Meters
TBC	To Be Confirmed

CONTENTS

1. INTRODUCTION

This service design concept report accompanies an Environmental Impact Statement (EIS) pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act), in support of a State Significant Development Application (SSDA) for the construction and operation of proposed mixed-use development, reference SSD-73228210.

This report addresses the Secretary's Environmental Assessment Requirements (SEARs) issued for the project, notably:

SEARs Requirement	Section of Report where response is provided
Section 21. Infrastructure Requirements and Utilities	
In consultation with relevant service providers, assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site.	Section 2, Page 6 Sections 5, 6, 7, 8
In consultation with relevant service providers, identify any infrastructure required on-site and off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time and be maintained.	Section 3, Page 7 Sections 5, 6, 7, 8
In consultation with relevant service providers, provide an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development.	Section 4, Page 10

The services concept design report is a document formalised to provide a reference to agreements between JHA and that of the Client and/or their representatives.

JHA in developing the concept design will endeavour to provide value added advice, providing suitable solutions to cost benefits and buildability.

The concept design report is designed to achieve a summarised, succinct and coherent written description of the scope of the services to be designed. The document is not designed as a Specification or Bill of Materials. Nor is it intended to provide detail of the equipment selection in the main. The document provides a description of the end outcome services to be provided within the building.

It is the intent of this document to represent a sign-off of the project's building services to be provided for the client by JHA Consulting Engineers.

1.1 BASIS OF CONCEPT DESIGN REPORT

King Bay village is a New Mixed Use Development (inclusive of shop-top-housing with in-fill affordable housing and an indoor recreation facility) located at 129-153 Parramatta Road & 53-75 Queens Road, Five Dock.

The proposed development seeks consent for a new mixed-use development, inclusive of shop top housing with in-fill affordable housing and an indoor recreation facility. The proposal will include:

- Construction of 6 residential towers up to 31 storeys above 5-7 level podiums with a mix of retail tenancies, commercial floor space, residential apartments and an indoor recreation facility
- Excavation for basement levels with car parking and associated services, and a tunnel connecting two parking lots below proposed council road
- Removal of existing trees on site
- Landscaping and a connected public space network that incorporates new public open space, the new Spencer Street road extension, and new pedestrian-focused through-site links
- 16 stratum subdivision lots
- Off-site works for William Street widening and temporary embellishment of 3m setback to Queens Road and 6m setback to Parramatta Road (as per the VPA).

The proposal seeks to utilise the Infill Affordable Housing provisions of the Housing SEPP by providing affordable housing in compliance with the requirements of the EPI.

Figure 1: Proposed Development Site

1.2 REPORT QUALIFICATIONS

All analysis undertaken for this report has occurred with an understanding that a high level of seamless integration with the development is achieved.

Information on existing infrastructure as detailed within this report has been obtained from Before-You-Dig-Australia (BYDA), Utility GIS, provided survey documents and discussions with utility companies, which include:

- Electrical Utility – Ausgrid

The Electrical Utility requirements of the development have been assessed with the below overview provided for each item:

- Assessment of existing utility infrastructure and assets has been undertaken in parallel to formal discussions with Ausgrid. It is understood adjustment and new installation to the existing utility infrastructure is required including installation of new Ausgrid high voltage feeders from an existing zone substation to the development site.
- Contact has been made to Ausgrid with formal responses provided initiating early coordination works to assist with implementing upgrades and new infrastructure in accordance with the current development program.
- Infrastructure delivery and staging plans will be developed at a later design stage through further consultation with Ausgrid.

Any potential works on existing authority infrastructure services is subject to negotiation and approvals by each affected authority. Liaison with each authority will be undertaken as part of the detailed design phase works for the site.

Refer to the Appendices of this report for Utility responses and Supply Offers.

2. EXISTING ELECTRICAL UTILITY INFRASTRUCTURE

The proposed Five Dock development site is currently occupied by existing Electrical Utility (Ausgrid) assets reticulating across the site. These services will require relocation and network augmentation as part of the early-stage demolition works to allow for the construction of the new development.

2.1 HIGH VOLTAGE INFRASTRUCTURE

Existing High Voltage (HV) Ausgrid assets currently reticulate through the proposed development site. These assets include:

- Ausgrid kiosk substation S.6121 Spencer Lane – currently supplying the subject site
- Ausgrid chamber substation S.370 – currently supplying the subject site and the surrounding Ausgrid LV network

There are also a number of existing HV network cables located underground along the site frontages of Parramatta Road, William Street, and Queens Road. These would be a possible connection point for any new substation infrastructure on the site as a permanent arrangement.

As part of the new development works, existing substations S.6121 and S.370 and associated infrastructure will require decommissioning and removal from site through an Ausgrid ASP3 Contestable process.

2.2 LOW VOLTAGE INFRASTRUCTURE

The subject development site is currently made up of a number of individual lots supplied by LV power from existing substations on site. These substations have been noted above to supply aspects of the new site and will be decommissioned as part of site early works.

There are a number of overhead LV service connections to lots that will make up the new subject site. These services will be removed as part of the development demolition works.

There is also a small section of existing redundant Ausgrid LV cables to be removed from the site.

Existing low voltage Ausgrid assets reticulate around the perimeter of the site within Parramatta Road, William Street, and Queens Road outside of the development boundary within public footpath and roadways as overhead assets utilising timber poles, and underground cable assets.

2.3 STREET LIGHTING INFRASTRUCTURE

Existing Ausgrid street lighting assets currently provide illuminance to the area surrounding the development site. These include street lighting luminaires attached to timber poles along Parramatta Road, William Street, and Queens Road supplied by existing overhead LV aerial cables.

2.4 TRANSMISSION INFRASTRUCTURE

Existing Ausgrid underground 33kV transmission cables are located within the roadway of Queens Road. These are intended to remain in place and be untouched as part of the proposed development works.

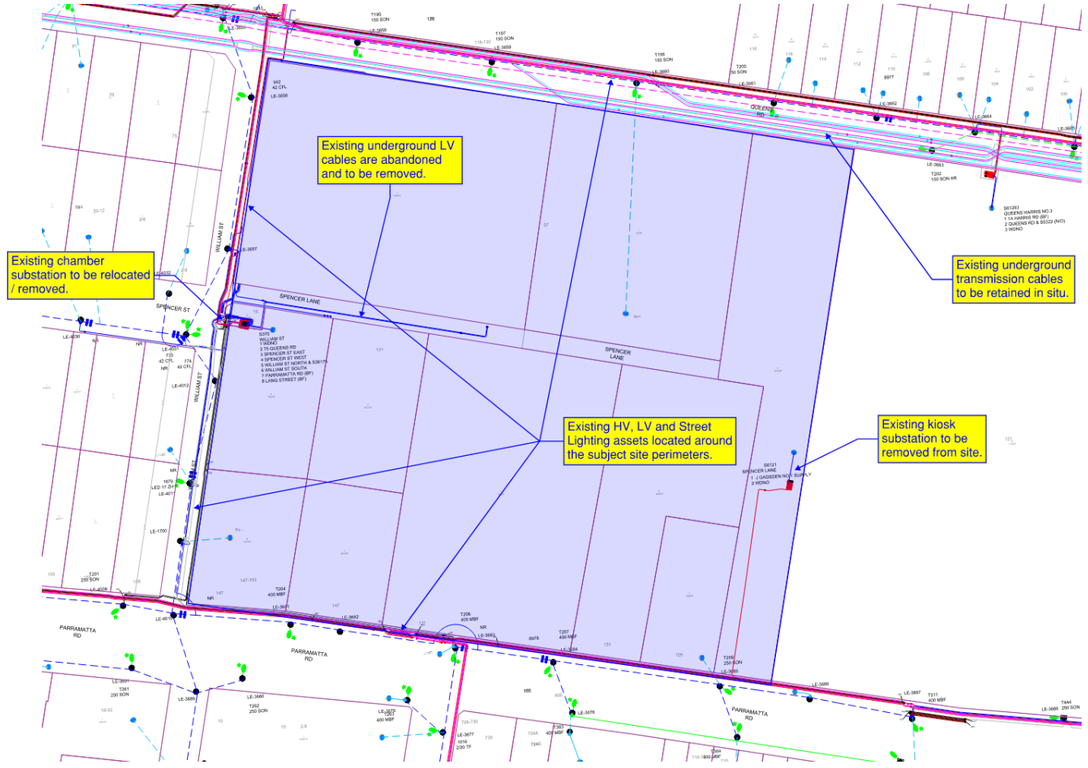


Figure 2: Existing Ausgrid Network Assets

3. PROPOSED ELECTRICAL UTILITY INFRASTRUCTURE

3.1 ELECTRICAL DEMAND LOADINGS

A site-specific preliminary maximum demand was calculated (by Goldfish & Bay, dated 01/07/2024) to determine the potential anticipated demand for the proposed development. From this it was determined the optimum demand for the site is anticipated to be approximately 11.75 MVA (4.8MVA North Site; 6.95MVA South Site).

The development will operate as an LV customer, with 400V connections being made from newly proposed Ausgrid substations located within the building footprint.

On the strength of the above, the constraints set by Ausgrid regarding their chamber substation firm ratings, and consideration towards futureproofing the installation, the following authority electrical infrastructure will be required for the Five Dock development:

Five Dock Development	Approx. Amp Rating	Approx. Firm KVA Rating
NORTH SITE:		
Ausgrid 3 x 1500kVA TX Custom Chamber	5,500A Firm	3.8MVA
Ausgrid 1 x 1000kVA Tx Custom Chamber	1,400A Non-Firm	1.0MVA
SOUTH SITE:		
Ausgrid 3 x 1500kVA TX Custom Chamber	5,500A Firm	3.8MVA
Ausgrid 3 x 1500kVA TX Custom Chamber	5,500A Firm	3.8MVA
Total Capacity	17,900A	12.4MVA
Required Capacity		~11.75MVA
Spare Capacity		~0.65MVA

These substations are standard fixed sizes from Ausgrid and are the only available in discrete step sizes. These discrete step sizes are quite large, which yields the spare capacity noted above.

The buildings power distribution system can be summarised as follows:

- North Site: Two (2) Ausgrid surface chamber substations within the building envelopes facing Spencer Street
- South Site: Two (2) Ausgrid surface chamber substations within the building envelopes. One facing William Street; one facing Parramatta Road
- Each substation shall be firm rated in accordance with NS109 with a rating of 5,500A (3 x Tx) and 1,400A (1 x Tx)
- Connected LV Main Switchboards to service the building will be documented by others.

3.2 HV FEEDER CONNECTIONS & RETICULATION

To provide electrical supply connections to the proposed development, and in consideration to the number of different HV feeders located around the perimeter of the site, it is proposed the existing Ausgrid High Voltage (HV) feeders will be utilised to connect the new Ausgrid chamber substations proposed along the site frontages as above. This arrangement is subject to suitable spare capacity in the existing HV feeder and Ausgrid design acceptance.

High voltage joints will be installed within Parramatta Road, William Street, and Queens Road footpaths to the existing high voltage feeders and new cabling installed underground to the new substation infrastructure.

Should Ausgrid determine new HV feeder infrastructure is required to be installed to the site for the indicated load demands, this will likely be from the existing Zone Substation ZN.2835 Burwood located approximately 2.1km to the west of the subject site directly along Parramatta Road. The location of the existing zone substation will minimise the length of any new HV feeder works including trenching and costs.

A formal application will be required for submission to Ausgrid to determine the available capacity in the existing HV network and to confirm viability of the proposed substation infrastructure for the development site.

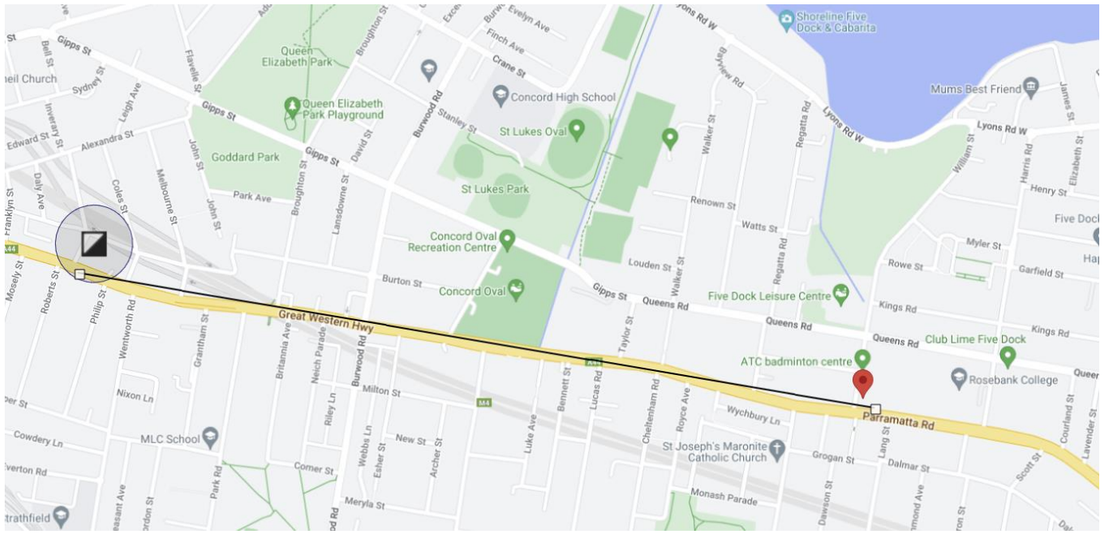


Figure 3: Existing Zone Substation ZN.2835 to Site

3.3 AUSGRID SUBSTATION DECOMMISSIONING

There are two (2) existing Ausgrid substations currently on site – S.6121 and S.370.

Substation S.6121 is an existing kiosk type substation currently only suppling the existing lot it resides on and will be decommissioned and removed as part of this new development.

Substation S.370 is an existing chamber type substation located on the corner of William Street and Spencer Lane. This substation currently supplies the site is resides on, as well and a number of Ausgrid LV network distributors which supply the street lighting and surrounding private lots. This substation is proposed to be removed and a new smaller kiosk type substation is to be installed within the proposed public park to retain existing Ausgrid LV network supplies.

An existing Ausgrid ASP3 certified design (AN-25680, certified 11/04/2024) is already in place to undertake these removal/ relocation works. The design is available from the client.

3.4 AUSGRID SUBSTATION ARRANGEMENTS

The design team has considered several options for substation locations and have determined the new Ausgrid substation infrastructure will be in the form of four (4) surface chamber substations, consisting of three (3) custom chamber substation and one (1) standard surface chamber substation.

3.4.1 DEVELOPED SUBSTATION LOCATIONS

Locations for the proposed substations within the development site are shown below, separated into North and Site Precinct lots.

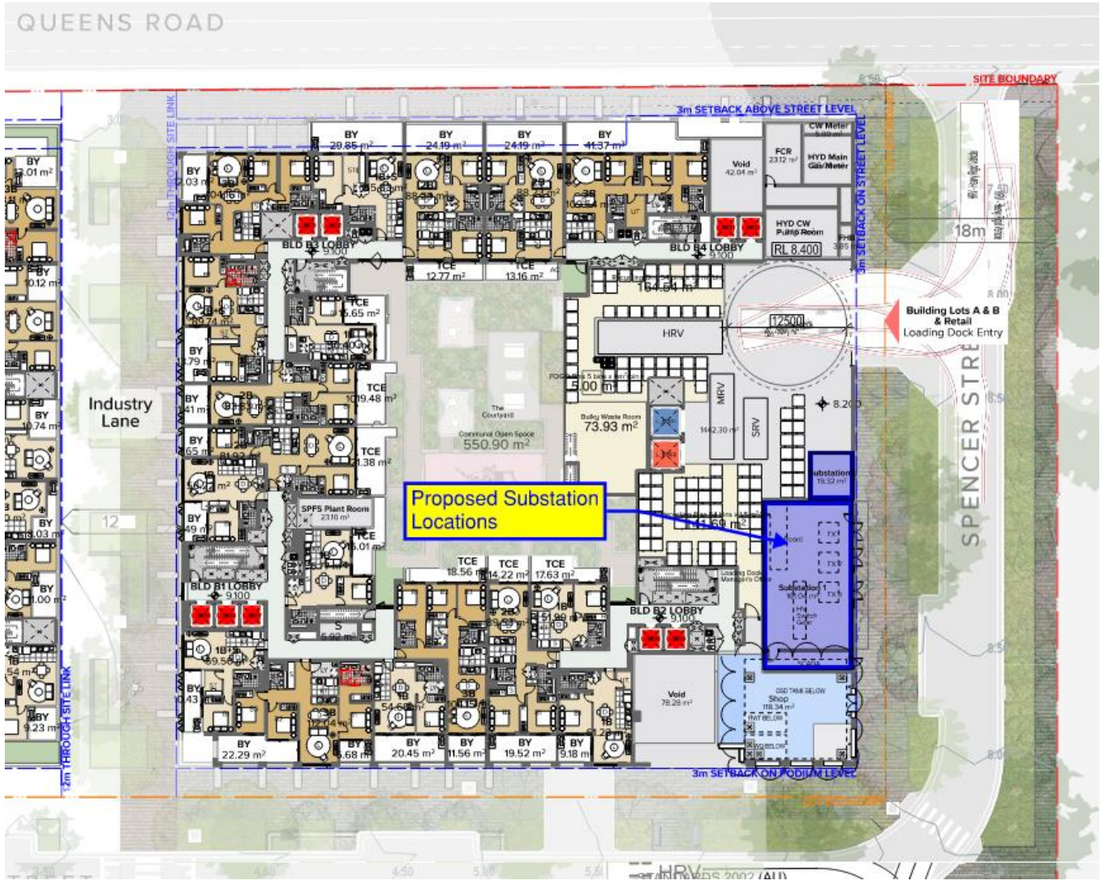


Figure 4: North Site, Proposed Substation Locations

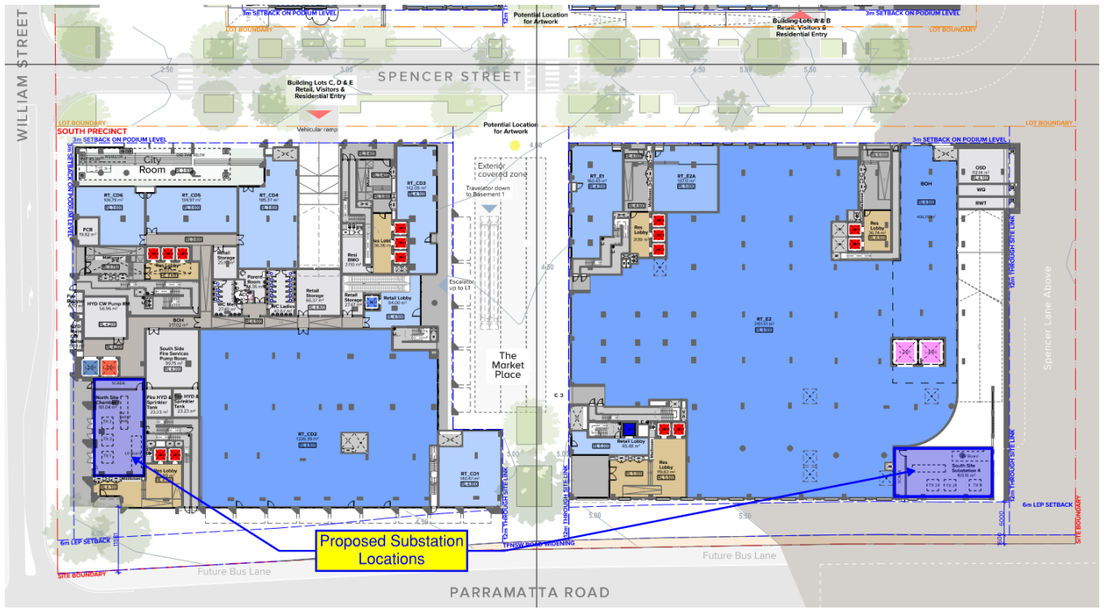


Figure 5: South Site, Proposed Substation Locations

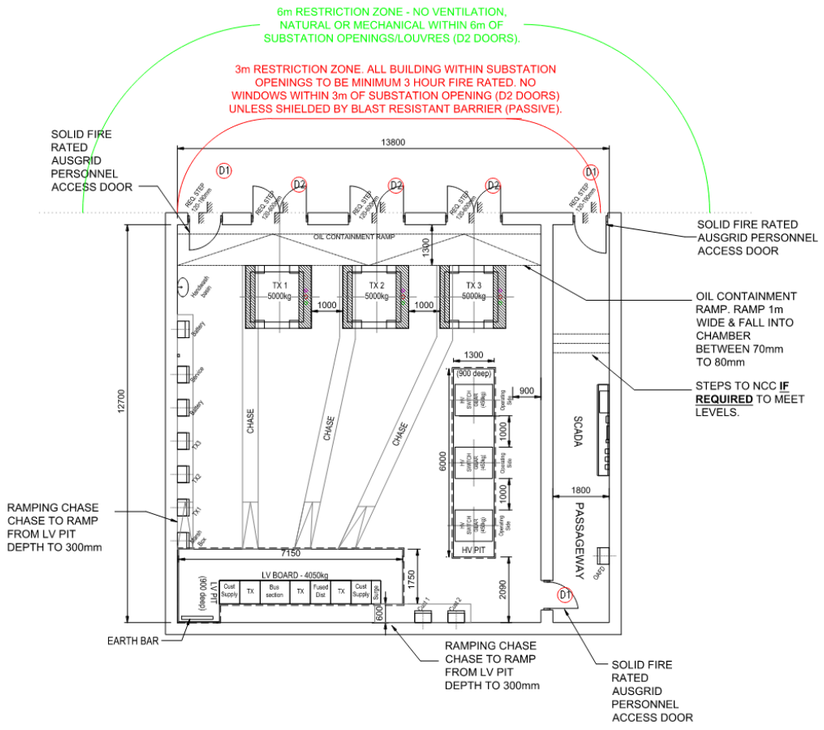
3.4.2 STANDARD SUBSTATION REQUIREMENTS

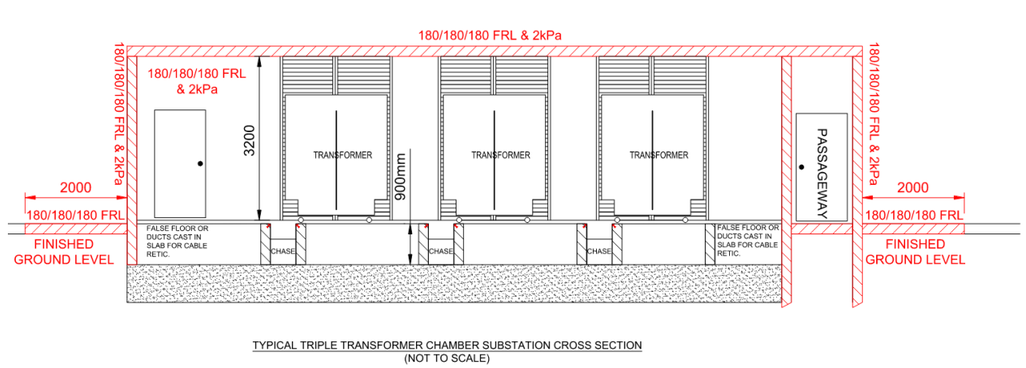
The following are general spatial requirements/principles adopted for the proposed surface chamber substations:

CUSTOM SURFACE CHAMBER SUBSTATION (3 X 1500KVA TRANSFORMERS)

Three (3) new 3 x 1500kVA transformer surface chamber substations are expected to be required on site at Ground Level for supply.

- Chamber rooms (160m^2 each) to be established at Ground Level, within the building envelope facing a public roadway
- All substation structural and architectural elements will require a fire rating of minimum FRL 180/180/180 and a blast rating of 2kPa
- A transformer handling area in front of the chambers is to be provided to Ausgrid's requirements. Ausgrid generally use a Franna crane for moving large equipment in and out of the substation using and require a minimum 4.0m head height clearance for the full width of the chamber room from the boundary
- Where the substations are not located directly on the property boundary, a minimum 4.0m wide x 4.0m high clear right-of-way will be required from the public road to the substation façade
- The substations will be naturally ventilated using louvers for the entire façade of the substation. All building elements within 3m of the substation are to be 3hr fire rated; and all other building ventilation openings (natural or forced) is to be at least 6m from the substation louvers.
- 24hr/7day week access is to be provided from public roads to the substation from the boundary for heavy vehicle movement and personnel access to the substation
- All works are to be in accordance with the site specific Ausgrid Design Information Package, Ausgrid Network Standards, and a certified Level 3 design





TYPICAL TRIPLE TRANSFORMER CHAMBER SUBSTATION CROSS SECTION
(NOT TO SCALE)

Figure 6: Typical 3 x 1500kVA Transformer Surface Chamber Layout

STANDARD SURFACE CHAMBER SUBSTATION (1 X 1000KVA TRANSFORMER)

One (1) new Ausgrid standard surface chamber substation is proposed to be located at Ground Level within the property boundary, as part of the façade facing a public road.

The substation will require the following minimum spatial arrangements:

- Chamber Room (~19.32m2 excluding columns; 4,200mm x 4,600mm x 3,200mm height + 700mm cable zone below) is to be established on Ground Level along the site boundary line.
- All substation structural and architectural elements will require a fire rating of minimum FRL 180/180/180 and a blast rating of 2kPa
- A transformer handling area in front of the chamber is to be provided to Ausgrid's requirements. Ausgrid generally use a Franna crane for moving large equipment in and out of the substation using and require a minimum 4.0m head height clearance for the full width of the chamber room from the boundary
- Where the substation is not located directly on the property boundary, a minimum 4.0m wide x 4.0m high clear right-of-way will be required from the public road to the substation façade
- The substation will be naturally ventilated using louvers for the entire façade of the substation. All building elements within 3m of the substation are to be 3hr fire rated; and all other building ventilation openings (natural or forced) is to be at least 6m from the substation louvers.
- 24hr/7day week access is to be provided from a public road to the substation from the boundary for heavy vehicle movement and personnel access to the substation
- All works are to be in accordance with the site specific Ausgrid Design Information Package, Ausgrid Network Standards, and a certified Level 3 design

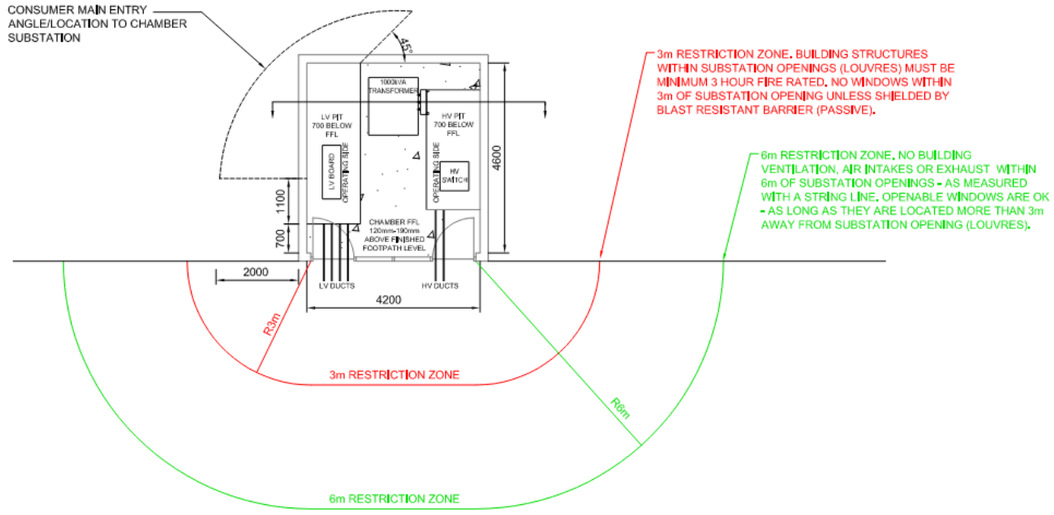


Figure 7: Standard 1 x 1000kVA Transformer Surface Chamber Layout - Plan

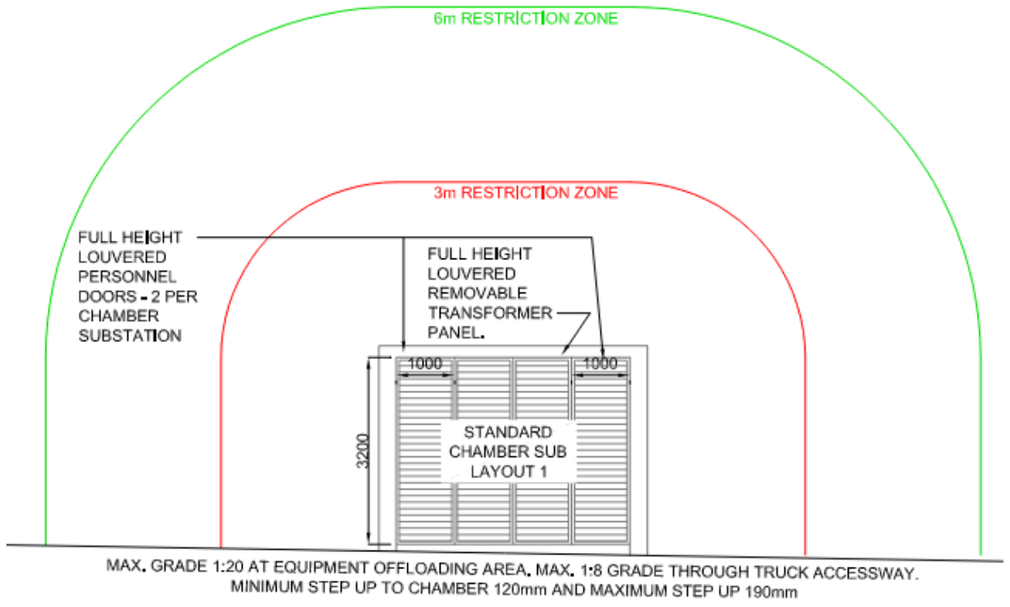


Figure 8: Standard 1 x 1000kVA Transformer Surface Chamber Layout - Section

3.5 AUSGRID OVERHEAD ASSET RELOCATION & STREET LIGHTING

As is typical with most new high-rise developments, the local Council can request for any existing Electrical overhead conductors along the site frontage to be relocated underground.

This requirement will also be accompanied with the requirement to upgrade lighting around the local and state roads to a Council and Transport of NSW (respectively) requested AS/NZS1158 compliance level. These lighting level category requirements will dictate the number and spacing of any new street lighting infrastructure. To achieve the underground asset arrangement, all street light poles will be of the standard Ausgrid steel column arrangements.

Road classifications of the roads adjacent to the site are as following:

- Parramatta Road – State Road controlled by TfNSW
- Queens Road – State Road controlled by TfNSW
- William Street – Local Road controlled by the council
- Spencer Street – Local Road controlled by the council

Relocation of existing overhead conductors underground is proposed to be undertaken along the William Street frontage being the only frontage with overhead conductors on the site side of the road. Parramatta Road relocation works will be undertaken by others as part of new road widening works.

New street lighting works are proposed to be undertaken along:

- Parramatta Road Frontage – upgrade existing light fittings on existing Ausgrid timber poles (poles to remain in situ)
- Queens Road Frontage – retain existing light fittings on existing Ausgrid timber poles, install additional light fitting where required on existing Ausgrid timber poles (poles to remain in situ)
- William Street Frontage – new Ausgrid steel columns with underground cable connections
- Spencer Street – new lighting on multi-function poles to council requirements

Lighting category for public roads as advised by City of Canada Bay Council (dated 16/08/2024):

- Parramatta Road: V1 and PP2
- Queens Road: V3 and PP2
- William Street: V3 and PP2
- Spencer Street: PR1 and PP2

Lighting category for state roads as advised by Transport of NSW (dated 29/08/2024):

- Parramatta Road: V3
- Queens Road: V5

Parramatta Road and Queens Road are state roads, controlled by Transport of NSW. Lighting category for these roads as nominated by the council are higher than Transport of NSW advice. However, the lighting category for these roads should be nominated by Transport of NSW who owns the roads. The category and scope of asset relocation work are to be confirmed with the council.

All public road lighting works will be in accordance with the City of Canada Bay Council and Transport of NSW requirements.

4. DELIVERY AND STAGING

The new Ausgrid chamber substations and the decommissioning of the existing kiosk substation will be constructed, tested, commissioned, and handed over to Ausgrid ownership prior to any Occupation Certificates associated with individual lots of the development.

The following is an expected staging arrangement to be undertaken by an ASP1 contractor, and to be finalised with Ausgrid as part of the ASP3 design process:

1. Undertake ASP3 design works separated into:
    a. Decommissioning of the existing substation located on site and establish a new kiosk substation to support the existing external street LV network for Ausgrid
    b. North Site:
        i. 1 x triple surface chamber substation located along the new Spencer St back-of-house area
        ii. 1 x standard single transformer surface chamber substation located along the new Spencer St back-of-house area next to the proposed triple substation
    c. South Site:
        i. 1 x triple surface chamber substation located on the boundary along Parramatta Road
        ii. 1 x triple surface chamber substation located on the boundary along William Street
2. ASP1 Construction works to be staged similar to the below:
    a. Decommissioning and new kiosk substation:
        i. Transfer all street network low voltage connections from existing substation S.370 to new kiosk substation S.36176
        ii. Decommission and remove existing chamber substation S.370 and associated assets from within the site
    b. North Site – Establish new substation infrastructure to reflect construction of buildings
    c. South Site – Establish new substation infrastructure to reflect construction of buildings

4.1 COORDINATION

The new Ausgrid chamber substations and the removal of the existing kiosk substation from site will be coordinated with all other internal and external assets along the subject site boundaries, which shall be undertaken by an Ausgrid Accredited Service Provider Level 3 (ASP3) designer in direct coordination with Ausgrid.

4.2 FUNDING

It is envisaged that all augmentation of existing, and establishment of new Ausgrid infrastructure associated with the site will be funded by the developer, with the Ausgrid Design Information Package determining any associated developer contribution charges.

5. APPENDIX A – NORTH SITE AUSGRID SUPPLY OFFER

OFFER to provide DESIGN RELATED SERVICES

DESIGN RELATED SERVICES OFFER

Premises address: **53-74 QUEENS ROAD, FIVE DOCK 2046**

NMI - Number: **Webform Ref 1932139**

MC Reference: **1900129753** **AP Reference: 800663004**

This offer is made on 17/07/2024

By *Ausgrid* of 24 Campbell St, Haymarket NSW 2000.

To the ***connection applicant*** named in the *connection application* received on 10/07/2024 in respect of the *premises* referred to above.

Ausgrid has determined that network alterations are required to connect your development and we cannot proceed to a connection or relocation offer at this stage. To enable Ausgrid to further consider and process your application you will require a certified design and associated certification number. Your application remains technically incomplete until you have been issued a certification number.

This Design Related Services Offer provides guidance on how to obtain a certified design and associated certification number.

Scope of Network Alterations

Ausgrid has determined that the following works are likely to be required:

- Installation of a chamber type substation.

These works are classified as contestable, which means that you are required to fund the design and some or all of the construction works. If you have not already done so, you will need to engage and manage suitably qualified contractors, known as Accredited Service Providers (ASPs) to undertake the design and construction.

Initially, your ASP Level 3 (ASP/3) will undertake the design, and then your ASP Level 1 (ASP/1) will undertake construction in accordance with the design and Ausgrid's policies and standards. The timeframe for the works will vary depending on factors such as the complexity and the way in which you manage your ASP's.

Once the works have been satisfactorily completed and electrified, the premises connection assets will be owned and maintained by Ausgrid as part of the electricity distribution network.

Contract for Design Related Services

This letter is an offer for the Customer to enter into a Contract for Design Related Services with Ausgrid. It remains open for acceptance for 45 business days. If the offer is accepted by the Applicant, the Applicant does so as the Customer's agent. No work will be undertaken by *Ausgrid* until a Design Contract is in place.

You are encouraged to contact ASP/3's and ASP/1's to understand the likely overall costs you will incur for design and construction before you accept and commit to the Contract for Design Related Services.

IMPORTANT: The contractual arrangements provide the framework for a design to be prepared by your ASP/3, and NOT by *Ausgrid*. *Ausgrid's* fees as outlined below are for the design related network services we provide during the design phase and are **IN ADDITION** to the fees charged by your ASP/3 in preparing the design.

Acceptance Fees

The acceptance fees relating to the Contract for Design Related Services are outlined in the attached Acceptance Fee Summary and also detailed on the Ausgrid Portal page. *Ausgrid* will invoice **the Customer** once we receive acceptance via the Ausgrid Portal along with a Customer Details Form (attached). The Contract will commence when you pay the invoiced fee.

The acceptance fees are an estimate for the *Ausgrid* services required and are payable up front by the **Customer**. Further fees may apply for any additional services required and these will be quoted via the Ausgrid Portal on each occasion.

Ausgrid's published rates for our services are amended from time to time in our Alternative Control Services Fee Schedule Publication, and in accordance with the Contract, *Ausgrid* reserves the right to charge the rates that are applicable at the time the service is provided.

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Fees for *Ausgrid's* services are in addition to the design and construction costs charged by your ASP's, and some fees may not be refundable if the service has already been provided. Fees and rates are set by the Australian Energy Regulator.

WHAT TO DO NEXT

- To move ahead, please accept the offer (see below) outlined in this document and then have the **Customer** pay the invoice that will be forwarded
- **Complete and forward the Customer Details Form**
- Engage an ASP Level 3 designer
  - On the Ausgrid Portal, nominate the ASP/3 as the designer for this project
  - Advise the ASP/3 that the Design Information Category for this project is **Standard**

Enquiries: connections.technical.enquiries@ausgrid.com.au

Enclosures:

Contract terms – via website at:
https://ausgrid.com.au/CDRS.

Customer Details Form – via website at
https://ausgrid.com.au/customerdetailsform

Acceptance Fee Summary – attached

PLEASE REVIEW THE OFFER OUTLINED IN THIS LETTER, ALONG WITH THE TERMS LINKED ABOVE, THEN PROCEED TO THE AUSGRID PORTAL

IF YOU WISH TO ACCEPT THIS OFFER

SELECT "ACCEPT" AGAINST THE OFFER ON THE AUSGRID PORTAL WITHIN 45 BUSINESS DAYS

RETURN THE CUSTOMER DETAILS FORM BY EMAIL TO contestability@ausgrid.com.au

IF YOU WISH TO DECLINE THE OFFER

SELECT "DECLINE" AGAINST THE OFFER ON THE AUSGRID PORTAL.

Should you wish to proceed in the future, a new connection application will need to be lodged.

For Official use only

6. APPENDIX B – SOUTH SITE AUSGRID SUPPLY OFFER

OFFER to provide DESIGN RELATED SERVICES

DESIGN RELATED SERVICES OFFER

Premises address: **123-153 PARRAMATTA ROAD, FIVE DOCK 2046**

NMI - Number: **Webform Ref 1932171**

MC Reference: **1900129742** **AP Reference: 800663006**

This offer is made on 17/07/2024

By *Ausgrid* of 24 Campbell St, Haymarket NSW 2000.

To the ***connection applicant*** named in the *connection application* received on 10/07/2024 in respect of the *premises* referred to above.

Ausgrid has determined that network alterations are required to connect your development and we cannot proceed to a connection or relocation offer at this stage. To enable Ausgrid to further consider and process your application you will require a certified design and associated certification number. Your application remains technically incomplete until you have been issued a certification number.

This Design Related Services Offer provides guidance on how to obtain a certified design and associated certification number.

Scope of Network Alterations

Ausgrid has determined that the following works are likely to be required:

- Installation of 2 x chamber type substations.

These works are classified as contestable, which means that you are required to fund the design and some or all of the construction works. If you have not already done so, you will need to engage and manage suitably qualified contractors, known as Accredited Service Providers (ASPs) to undertake the design and construction.

Initially, your ASP Level 3 (ASP/3) will undertake the design, and then your ASP Level 1 (ASP/1) will undertake construction in accordance with the design and Ausgrid's policies and standards. The timeframe for the works will vary depending on factors such as the complexity and the way in which you manage your ASP's.

Once the works have been satisfactorily completed and electrified, the premises connection assets will be owned and maintained by Ausgrid as part of the electricity distribution network.

Contract for Design Related Services

This letter is an offer for the Customer to enter into a Contract for Design Related Services with Ausgrid. It remains open for acceptance for 45 business days. If the offer is accepted by the Applicant, the Applicant does so as the Customer's agent. No work will be undertaken by *Ausgrid* until a Design Contract is in place.

You are encouraged to contact ASP/3's and ASP/1's to understand the likely overall costs you will incur for design and construction before you accept and commit to the Contract for Design Related Services.

IMPORTANT: The contractual arrangements provide the framework for a design to be prepared by your ASP/3, and NOT by *Ausgrid*. *Ausgrid's* fees as outlined below are for the design related network services we provide during the design phase and are **IN ADDITION** to the fees charged by your ASP/3 in preparing the design.

Acceptance Fees

The acceptance fees relating to the Contract for Design Related Services are outlined in the attached Acceptance Fee Summary and also detailed on the Ausgrid Portal page. *Ausgrid* will invoice **the Customer** once we receive acceptance via the Ausgrid Portal along with a Customer Details Form (attached). The Contract will commence when you pay the invoiced fee.

The acceptance fees are an estimate for the *Ausgrid* services required and are payable up front by the **Customer**. Further fees may apply for any additional services required and these will be quoted via the Ausgrid Portal on each occasion.

Ausgrid's published rates for our services are amended from time to time in our Alternative Control Services Fee Schedule Publication, and in accordance with the Contract, *Ausgrid* reserves the right to charge the rates that are applicable at the time the service is provided.

For Official use only

Fees for *Ausgrid's* services are in addition to the design and construction costs charged by your ASP's, and some fees may not be refundable if the service has already been provided. Fees and rates are set by the Australian Energy Regulator.

WHAT TO DO NEXT

- To move ahead, please accept the offer (see below) outlined in this document and then have the **Customer** pay the invoice that will be forwarded
- **Complete and forward the Customer Details Form**
- Engage an ASP Level 3 designer
  - On the Ausgrid Portal, nominate the ASP/3 as the designer for this project
  - Advise the ASP/3 that the Design Information Category for this project is **Standard**

Enquiries: connections.technical.enquiries@ausgrid.com.au

Enclosures: Contract terms – via website at: https://ausgrid.com.au/CDRS.

Customer Details Form – via website at https://ausgrid.com.au/customerdetailsform

Acceptance Fee Summary – attached

PLEASE REVIEW THE OFFER OUTLINED IN THIS LETTER, ALONG WITH THE TERMS LINKED ABOVE, THEN PROCEED TO THE AUSGRID PORTAL

IF YOU WISH TO ACCEPT THIS OFFER

SELECT "ACCEPT" AGAINST THE OFFER ON THE AUSGRID PORTAL WITHIN 45 BUSINESS DAYS

RETURN THE CUSTOMER DETAILS FORM BY EMAIL TO contestability@ausgrid.com.au

IF YOU WISH TO DECLINE THE OFFER

SELECT "DECLINE" AGAINST THE OFFER ON THE AUSGRID PORTAL.

Should you wish to proceed in the future, a new connection application will need to be lodged.

For Official use only

7. APPENDIX C – WILLIAM STREET RELOCATION AUSGRID SUPPLY OFFER

OFFER to provide DESIGN RELATED SERVICES

DESIGN RELATED SERVICES OFFER

Premises address: **129-153 PARRAMATTA ROAD, FIVE DOCK 2046**

Webform Ref: **1932103**

MC Reference: **1900129658** **AP Reference:**

This offer is made on 17/07/2024

By *Ausgrid* of 24 Campbell St, Haymarket NSW 2000.

To the *applicant* named in the relocation application received on 10/07/2024 in respect of the *premises* referred to above.

Contestable Relocation Works

The assessment of the requested relocation of our existing network has been completed. This assessment indicates that relocation of the *Ausgrid* network can proceed to the design stage.

These works are classified as contestable, which means that you will be required to fund the design and some or all of the construction works. In this regard, if you have not already done so, you will need to engage and manage suitably qualified contractors, known as Accredited Service Providers (ASP's) to undertake the design and construction in accordance with *Ausgrid's* policies and standards.

The ASP/3 designer in conjunction with the proponent is responsible for obtaining written agreement to any relocation works from all affected parties, including all residents whose underground or overhead services are intended to be relocated and/or undergrounded as a result of the proposed design. Evidence needs to be provided to Ausgrid as part of the design submission and included in the Summary Environmental Report (SER) - this is a prerequisite to certification and the project proceeding to the construction phase.

Once the works have been satisfactorily completed and electrified, the altered network assets will be owned and maintained by *Ausgrid* as part of the electricity distribution network. The timeframe for the works will vary depending on factors such as the complexity and the way in which you manage your ASP's.

Applications for relocation are processed in accordance with *Ausgrid* document ***Policy - Asset Relocations*** and generally follow the *contestable design and construction process.* The policy document and further information is available from our website *http://www.ausgrid.com.au* at the following link:
https://www.ausgrid.com.au/Connections/special-connections/moving-poles-and-assets

Contract for Design Related Services

This letter is an offer for the Customer to enter into a Contract for Design Related Services with Ausgrid. It remains open for acceptance for 45 business days. If the offer is accepted by the Applicant, the Applicant does so as the Customer's agent. No work will be undertaken by *Ausgrid* until a Design Contract is in place.

You are encouraged to contact ASP/3's and ASP/1's to understand the likely overall costs you will incur for design and construction before you accept and commit to the Contract for Design Related Services.

IMPORTANT: The contractual arrangements provide the framework for a design to be prepared by your ASP/3, and NOT by *Ausgrid*. *Ausgrid's* fees as outlined below are for the design related network services we provide during the design phase and are **IN ADDITION** to the fees charged by your ASP/3 in preparing the design.

Acceptance Fees

The acceptance fees relating to the Contract for Design Related Services are outlined in the attached Acceptance Fee Summary and also detailed on the Ausgrid Portal page. *Ausgrid* will invoice **the Customer** once we receive acceptance via the Ausgrid Portal along with a Customer Details Form (attached). The Contract will commence when you pay the invoiced fee.

The acceptance fees are an estimate for the *Ausgrid* services required and are payable up front by the **Customer**. Further fees may apply for any additional services required and these will be quoted via the Ausgrid Portal on each occasion.

Ausgrid's published rates for our services are amended from time to time in our Alternative Control Services Fee Schedule Publication, and in accordance with the Contract, *Ausgrid* reserves the right to charge the rates that are applicable at the time the service is provided.

Fees for *Ausgrid's* services are in addition to the design and construction costs charged by your ASP's, and some fees may not be refundable if the service has already been provided. Fees and rates are set by the Australian Energy Regulator:

WHAT TO DO NEXT

- To move ahead, please accept the offer (see below) outlined in this document and then have the **Customer** pay the invoice that will be forwarded
- **Complete and forward the Customer Details Form**
- Engage an ASP Level 3 designer
  - On the Ausgrid Portal, nominate the ASP/3 as the designer for this project
  - Advise the ASP/3 that the Design Information Category for this project is **Simple**

Enquiries: connections.technical.enquiries@ausgrid.com.au

Enclosures: Contract terms – via website at:
https://ausgrid.com.au/CDRS.

Customer Details Form – via website at
https://ausgrid.com.au/customerdetailsform

Acceptance Fee Summary – attached

PLEASE REVIEW THE OFFER OUTLINED IN THIS LETTER, ALONG WITH THE TERMS LINKED ABOVE, THEN PROCEED TO THE AUSGRID PORTAL

IF YOU WISH TO ACCEPT THIS OFFER

SELECT "ACCEPT" AGAINST THE OFFER ON THE AUSGRID PORTAL WITHIN 45 BUSINESS DAYS

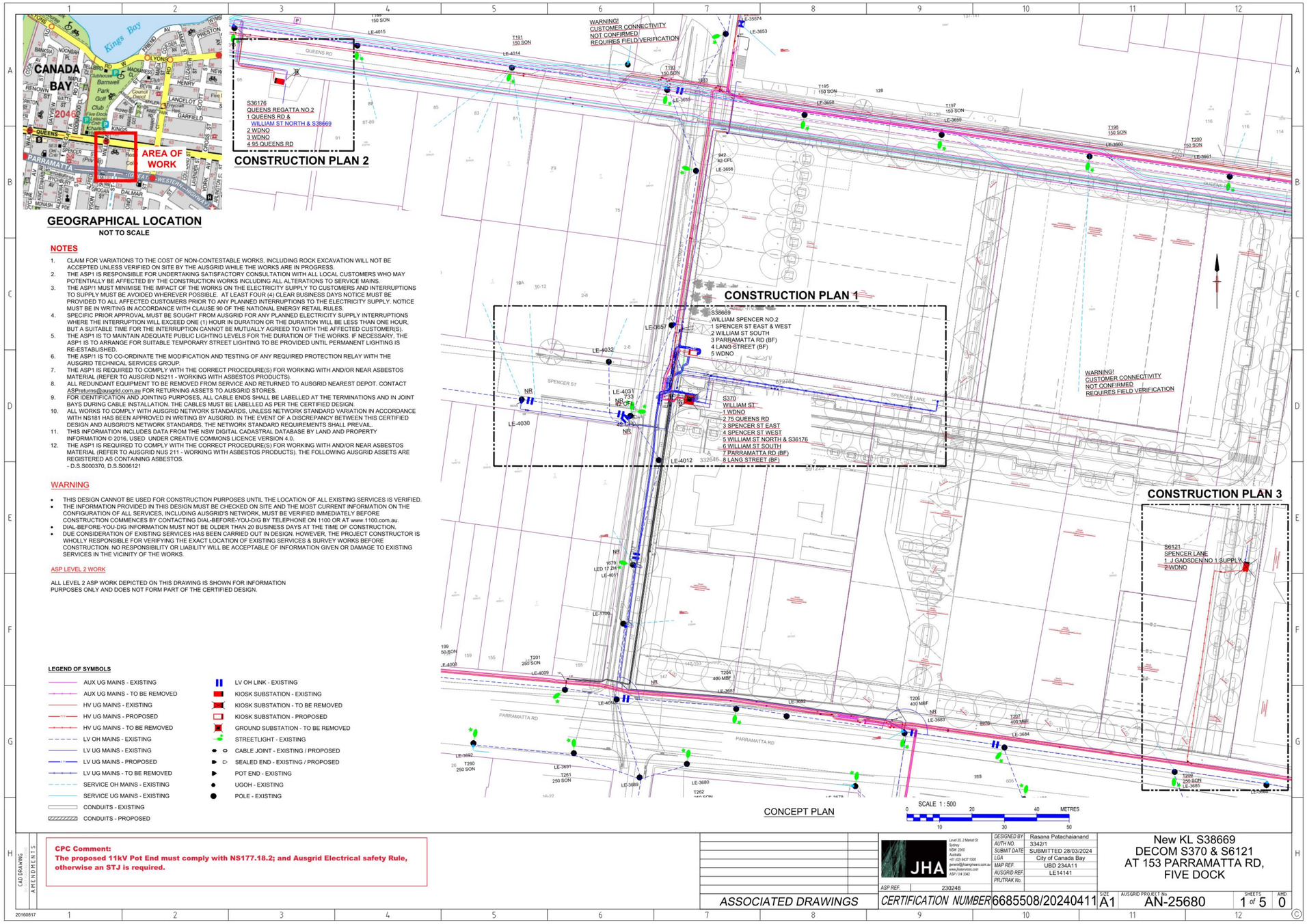
RETURN THE CUSTOMER DETAILS FORM BY EMAIL TO contestability@ausgrid.com.au

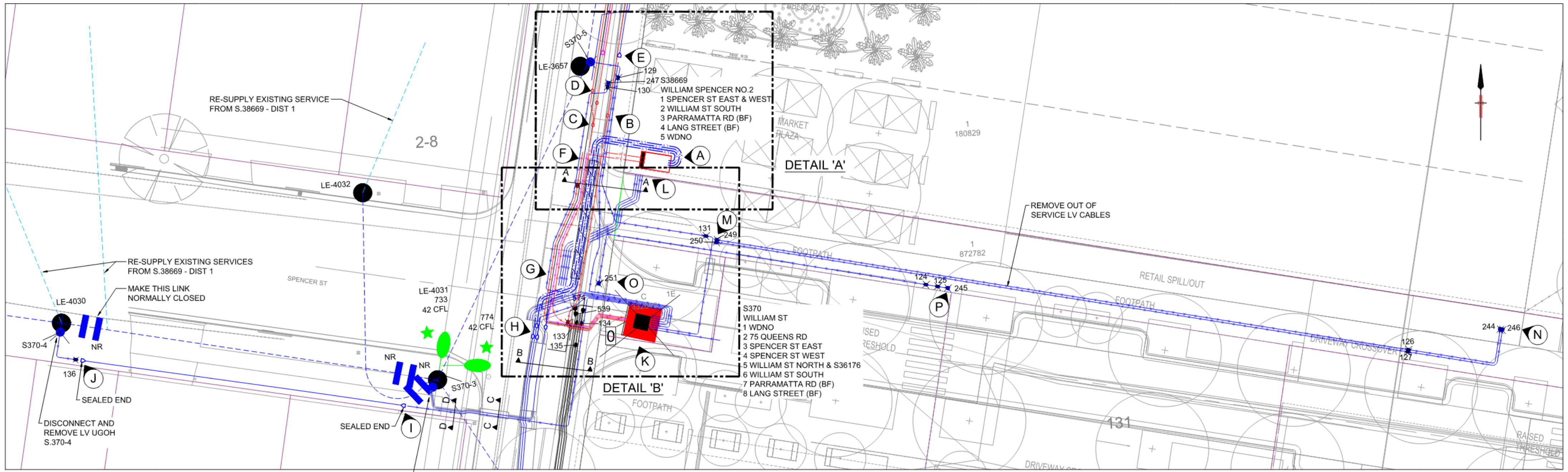
IF YOU WISH TO DECLINE THE OFFER

SELECT "DECLINE" AGAINST THE OFFER ON THE AUSGRID PORTAL.

Should you wish to proceed in the future, a new connection application will need to be lodged.

8. APPENDIX D – EARLY WORKS DECOMISSIONING ASP3 DESIGN – AN-25680 AUSGRID CERTIFIED





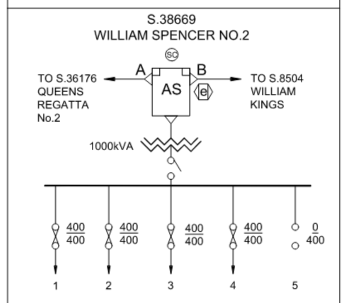
CONCEPT PLAN 1

SCALE 1 : 200

KIOSK SUBSTATION DETAILS

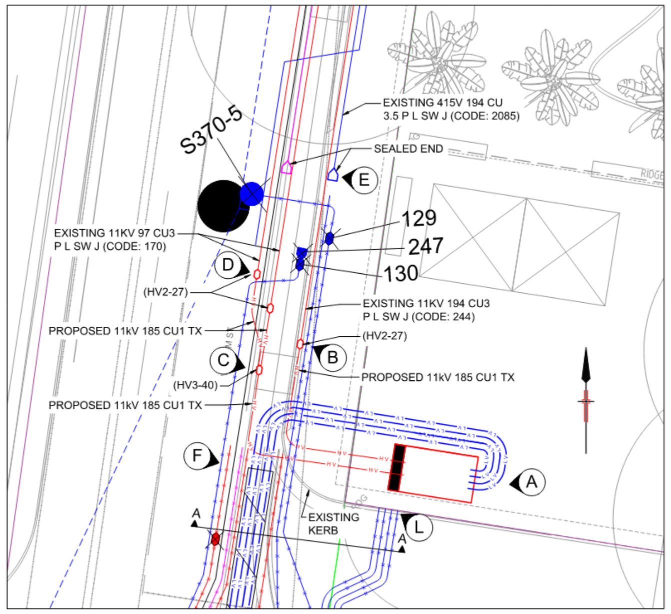
SUBSTATION NAME:	WILLIAM SPENCER NO.2
SUBSTATION NUMBER:	S.38669
ADDRESS:	153 PARRAMATTA RD, FIVE DOCK
SUBSTATION TYPE:	KL
SIZE (kVA):	1000kVA
VECTOR GROUP:	Dyn 1
TAP SETTING:	TAP 4: 10725 / 433
HV SWITCHGEAR:	ABB Safelink
HV FUSE DETAILS:	100A SIBA 30.020.93.100
LOAD CYCLE:	A: Commercial / Industrial
PHASING DETAIL:	Phasing to be verified on site and to match existing network
LV FUSE DETAILS:	400A 92mm centres Bell / MEM "J"
LOW VOLTAGE BOARD:	400/400/400/400/400
DIST 1, SIZE (Amps):	400A
DIST 2, SIZE (Amps):	400A
DIST 3, SIZE (Amps):	400A
DIST 4, SIZE (Amps):	400A
DIST 5, SIZE (Amps):	WDNO
EARTHING REQUIREMENTS:	As per Ausgrid earthing design specification, Ausgrid drawing 167433 & NS116
EASEMENT PLAN DETAIL:	As per easement plan
SUBSTATION PIERS:	Ausgrid drawing 151572 & NS141

SUBSTATION SCHEMATIC DIAGRAM



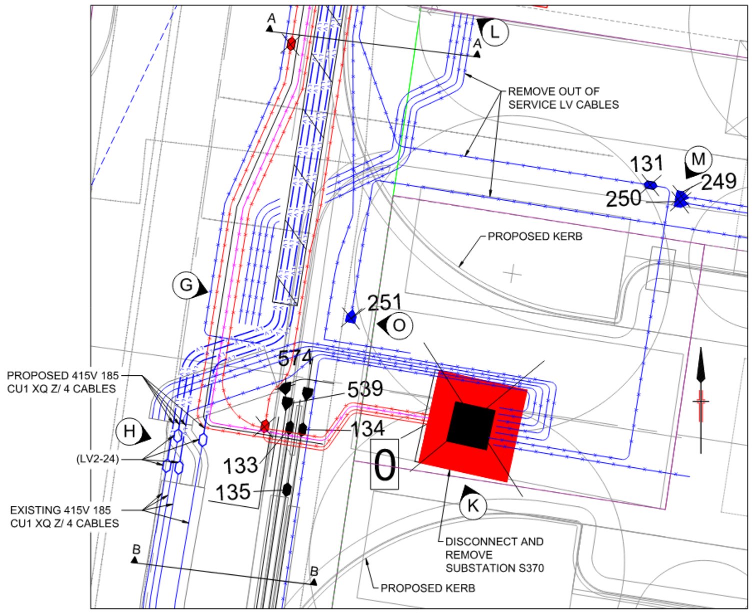
LV DISTRIBUTOR DETAILS

DIST	DESTINATION
1	SPENCER ST EAST & WEST (400/400)
2	WILLIAM ST SOUTH (400/400)
3	PARRAMATTA RD (BF) (400/400)
4	LANG STREET (BF) (400/400)
5	WDNO (0/400)



DETAIL 'A'

SCALE 1 : 100



DETAIL 'B'

SCALE 1 : 100

ASSOCIATED DRAWINGS

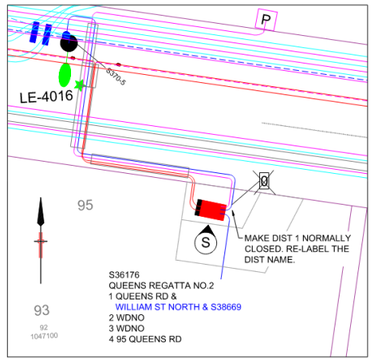
DESIGNED BY	Rasana Patachaianand
AUTH NO.	3342/1
SUBMIT DATE	SUBMITTED 28/03/2024
LGA	City of Canada Bay
MAP REF.	UBD 234A11
AUSGRID REF	LE14141
PRJTRAK No.	
ASP REF.	230248

New KL S38669
DECOM S370 & S6121
AT 153 PARRAMATTA RD,
FIVE DOCK

CERTIFICATION NUMBER 6685508/20240411 | SIZE A1 | AUSGRID PROJECT No AN-25680 | SHEETS 2 of 5 | AMD 0

UNDERGROUND CONSTRUCTION WORKS SCHEDULE - "DUCT PULL SOFTWARE - V1.1"

REF. IDENTIFIER	ROUTE DISTANCE (m)	CIRCUIT VOLTAGE	CONDUCTOR OR ASSET DETAIL	CODE	MIN. BENDING RADIUS (mm) DURING INSTALLATION	MIN. BENDING RADIUS (mm) AFTER INSTALLATION	CALCULATED MAX. PULLING TENSION (kN) DURING INSTALLATION	CONSTRUCTION DETAIL
A	N/A	11kV	1 x 1000kVA 'L' TYPE KIOSK SUBSTATION	178155	N/A	N/A	N/A	ESTABLISH NEW KIOSK SUBSTATION. TERMINATE 11kV / LV CABLES ONTO THE SWITCHGEARS. ALLOW SUFFICIENT CABLE LENGTH FOR SUBSTATION TERMINATIONS.
	5m	11kV	2 x 11kV 185 CU1 TRXQ 70 CU(WS) 10.4KA Z YQ / TX / App 1131 (triplex)	1220	1120 (Bundled) 870 (Phase)	745 (Bundled) 525 (Phase)	N/A	
		LV	4 SETS OF 415V 185 CU1 XQ Z/ 4 CABLES	5044	145	95	N/A	
F - G	10m	N/A	8 x 150mm UPVC CONDUIT	N/A	N/A	N/A	N/A	EXCAVATE TRENCH, INSTALL CONDUITS. REFER TO SECTION A-A.
A - B	10m	11kV	1 x 11kV 300 CU1 TRXQ 70 CU(WS) 10.4KA Z YQ / TX / App 1131 (triplex)	1210	1275 (Bundled) 960 (Phase)	850 (Bundled) 575 (Phase)	N/A	EXCAVATE & DIRECT LAY CABLES FROM THE SUBSTATION TO REF. 'B'.
B	N/A	11kV	1 x TRANSITION THROUGH JOINT (HV2-27)	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY, SPIKE EXISTING 11kV 194 CU3 P L SW J (CODE: 244). INSTALL A TRANSITION THROUGH JOINT NEW 11kV 300 CU1 TX TO THE EXISTING CABLE.
A - C	10m	11kV	1 x 11kV 185 CU1 TRXQ 70 CU(WS) 10.4KA Z YQ / TX / App 1131 (triplex)	1220	1120 (Bundled) 870 (Phase)	745 (Bundled) 525 (Phase)	N/A	EXCAVATE & DIRECT LAY CABLES FROM THE SUBSTATION TO REF. 'C'.
C	N/A	11kV	1 x TEE JOINT (HV3-40)	N/A	N/A	N/A	N/A	INSTALL A TEE JOINT NEW 11kV 300 CU1 TX TO NEW 11kV 300 CU1 TX CABLES. REFER TO DETAIL 'A'.
C - D	5m	11kV	2 x 11kV 185 CU1 TRXQ 70 CU(WS) 10.4KA Z YQ / TX / App 1131 (triplex)	1220	1120 (Bundled) 870 (Phase)	745 (Bundled) 525 (Phase)	N/A	EXCAVATE & DIRECT LAY CABLES BETWEEN REF. 'C' & 'D'.
D	N/A	11kV	2 x TRANSITION THROUGH JOINT (HV2-27)	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY, SPIKE EXISTING 11kV 97 CU3 P L SW J (CODE: 170). INSTALL TRANSITION THROUGH JOINTS NEW 11kV 300 CU1 TX TO THE EXISTING CABLES.
A - H	35m	LV	4 SETS OF 415V 185 CU1 XQ Z/ 4 CABLES	5044	145	95	1.53kN (Max 7.36kN)	EXCAVATE AND DIRECT LAY / INSTALL CABLES IN CONDUITS FROM THE SUBSTATION TO REF. 'H'.
H	N/A	LV	4 x LV JOINTS (LV2-24)	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY, SPIKE EXISTING 415V 185 CU1 XQ Z/ 4 CABLES (CODE: 5044) - DIST 3, 6, 7 & 8 OF S.370. INSTALL STRAIGHT THROUGH JOINT NEW 415V 185 CU1 XQ Z/ 4 CABLES TO THE EXISTING CABLES.
E	N/A	LV	EXISTING UGOH	N/A	N/A	N/A	N/A	DISCONNECT AND REMOVE LV UGOH ON POLE LE-3657 (DIST 5 OF S.370).
			1 x SEALED END	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE EXISTING OOS 415V 194 CU 3.5 P L SW J (CODE: 2085). SEAL END THE CABLE.
		AUX	1 x SEALED END	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE EXISTING OOS 44.6 CU3 P H + .82 CU3PR P L SW J / BV (CODE: 815). SEAL END THE CABLE.
E - K	35m	LV	EXISTING LV CABLES		N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE AND REMOVE EXISTING 11kV, AUX AND LV CABLES BETWEEN REF. 'E' AND 'K' (PREVIOUSLY CONNECTED TO S.370).
		AUX	EXISTING AUX CABLES		N/A	N/A	N/A	
D - K	30m	11kV	EXISTING 11kV CABLES		N/A	N/A	N/A	
K	N/A	11kV	EXISTING COTTAGE SUBSTATION S.370	N/A	N/A	N/A	N/A	DISCONNECT AND REMOVE THE EXISTING SUBSTATION AND ASSOCIATED CABLES.
K - I	33m	LV	EXISTING LV CABLES		N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE AND REMOVE EXISTING 415V 323 AL4 P L SW J (CODE: 2120) S.370-DIST 4 CABLES.
I	N/A	LV	1 x SEALED END	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE EXISTING 415V 323 AL4 P L SW J (CODE: 2120). SEAL END THE CABLE.
J	N/A	LV	EXISTING UGOH	N/A	N/A	N/A	N/A	DISCONNECT AND REMOVE LV UGOH ON POLE LE-4030 (DIST 4 OF S.370).
			1 x SEALED END	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE EXISTING 415V 323 AL4 P L SW J (CODE: 2120). SEAL END THE CABLE.
L - G	12m	LV	EXISTING LV CABLES		N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE AND REMOVE EXISTING OOS LV CABLES. REFER TO CONSTRUCTION PLAN 1.
M - N	72m	LV	EXISTING LV CABLES		N/A	N/A	N/A	
O - P	35m	LV	EXISTING LV CABLES		N/A	N/A	N/A	
Q	N/A	11kV	EXISTING KIOSK SUBSTATION S.6121	N/A	N/A	N/A	N/A	DISCONNECT AND REMOVE THE EXISTING SUBSTATION AND ASSOCIATED CABLES.
Q - R		11kV	EXISTING 11kV CABLES	156	N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE AND REMOVE EXISTING 11kV CABLES.
R	N/A	11kV	1 x POT END (HV1-37)	N/A	N/A	N/A	N/A	LOCATE, IDENTIFY SPIKE EXISTING 11kV 39 CU3 P L SW J. POT END THE CABLE.
S	N/A	LV	EXISTING S.36176 - DIST 1	N/A	N/A	N/A	N/A	INSTALL LV 400A FUSE AT DIST 1. MAKE THE DIST NORMALLY CLOSED. RE-SUPPLY THE NETWORK PREVIOUSLY SUPPLIED FROM S.370 - DIST 5. RE-LABEL THE DIST NAME.

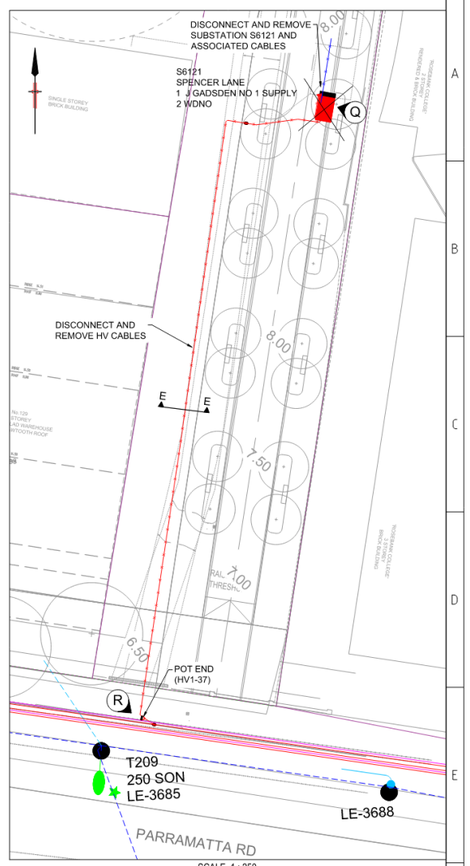


CONCEPT PLAN 2

SCALE 1 : 250

0 5 15 METRES 25

10 20



CONCEPT PLAN 3

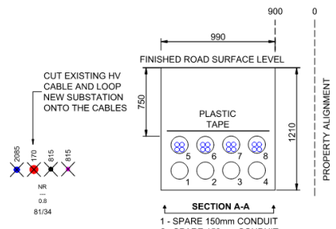
SCALE 1 : 250

0 5 15 METRES 25

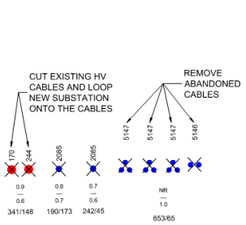
10 20

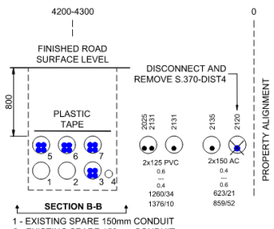
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

- ALL FOOTWAYS TO BE REINSTATED IN ACCORDANCE WITH CITY OF CANADA BAY COUNCIL REQUIREMENTS AND NS130
- BACK FILL MATERIAL TO BE INSTALLED IN ACCORDANCE WITH NS130
- INSTALL THERMALLY STABLE BEDDING MATERIAL IN CONDUIT BANKS IN ACCORDANCE WITH NS130
- MAINTAIN ACCESS TO EXISTING DRIVEWAYS AT ALL TIMES OF CONSTRUCTION
- ANY EXCAVATION WITHIN TREE PROTECTION ZONES ALONG THE TRENCHING ROUTE MUST UTILISE NON DESTRUCTIVE TRENCHING METHODS (HAND DIGGING) AND SUCKER TRUCK
- ALL EXISTING UNDERGROUND SERVICES TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.



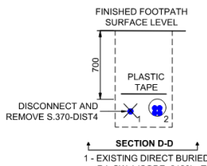
1 - SPARE 150mm CONDUIT
2 - SPARE 150mm CONDUIT
3 - SPARE 150mm CONDUIT
4 - SPARE 150mm CONDUIT
5 - 4 x 415V 185 CU1 IN 150mm CONDUIT
6 - 4 x 415V 185 CU1 IN 150mm CONDUIT
7 - 4 x 415V 185 CU1 IN 150mm CONDUIT
8 - 4 x 415V 185 CU1 IN 150mm CONDUIT



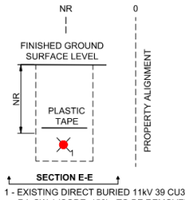


1 - EXISTING SPARE 150mm CONDUIT
2 - EXISTING SPARE 150mm CONDUIT
3 - EXISTING 4 x 415V 185 CU1 (CODE: 5044) IN 150mm CONDUIT - TO BE CUT AND JOINED TO NEW LV CABLES
4 - EXISTING SPARE 50mm CONDUIT
5 - EXISTING 4 x 415V 185 CU1 (CODE: 5044) IN 150mm CONDUIT - TO BE CUT AND JOINED TO NEW LV CABLES
6 - EXISTING 4 x 415V 185 CU1 (CODE: 5044) IN 150mm CONDUIT - TO BE CUT AND JOINED TO NEW LV CABLES
7 - EXISTING 4 x 415V 185 CU1 (CODE: 5044) IN 150mm CONDUIT- TO BE CUT AND JOINED TO NEW LV CABLES

1 - EXISTING 415V 323 AL4 P L SW J IN 150mm CONDUIT - TO BE REMOVED
2 - EXISTING SPARE 150mm CONDUIT
3 - EXISTING 4 x 415V 185 CU1 (CODE: 5044) IN 150mm CONDUIT - TO BE CUT AND JOINED TO NEW LV CABLES



1 - EXISTING DIRECT BURIED 415V 323 AL4 P L SW J (CODE: 2120) - TO BE REMOVED
2 - EXISTING 4 x 415V 185 CU1 (CODE: 5044) IN 150mm CONDUIT - TO BE CUT AND JOINED TO NEW LV CABLES



1 - EXISTING DIRECT BURIED 11kV 39 CU3 P L SW J (CODE: 156) - TO BE REMOVED

ASSOCIATED DRAWINGS

CAD DRAWING

AMENDMENTS

DESIGNED BY	Rasana Patachaianand
AUTH NO.	3342/1
SUBMIT DATE	SUBMITTED 28/03/2024
LGA	City of Canada Bay
MAP REF.	UBD 234A11
AUSGRID REF.	LE14141
PRJTRAK No.	
ASP REF.	230248
CERTIFICATION NUMBER	6685508/20240411

JHA
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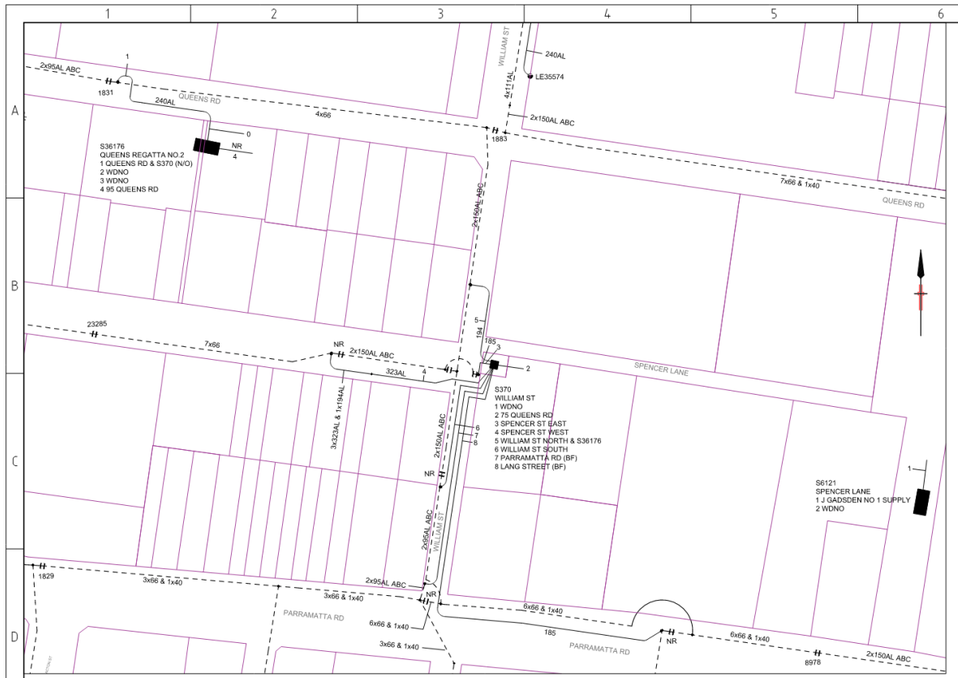
Sydney
NSW 2000
Australia
+61 (02) 8437 1000
geowest@haengineers.com.au
www.jhaservices.com
ASP / 14 2342

New KL S38669
DECOM S370 & S6121
AT 153 PARRAMATTA RD,
FIVE DOCK

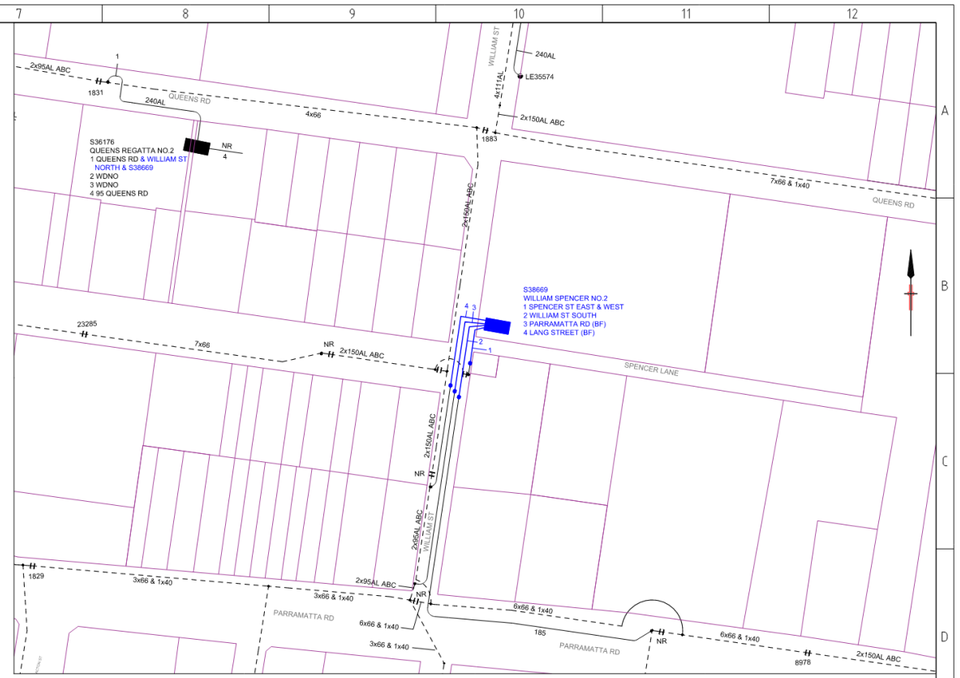
SIZE A1 | AUSGRID PROJECT No. AN-25680 | SHEETS 3 of 5 | AMD 0

20160817



LV SCHEMATIC - EXISTING

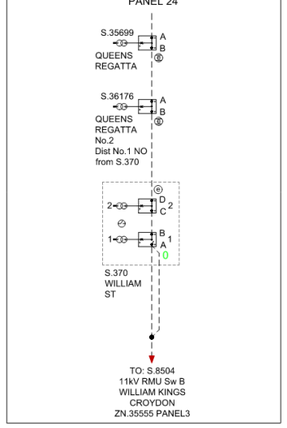
NOT TO SCALE



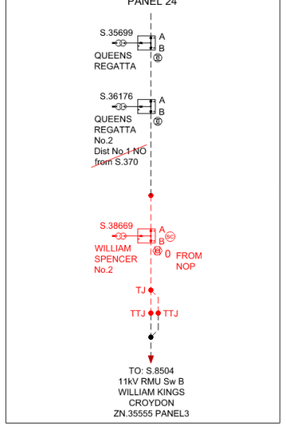
LV SCHEMATIC - PROPOSED

NOT TO SCALE

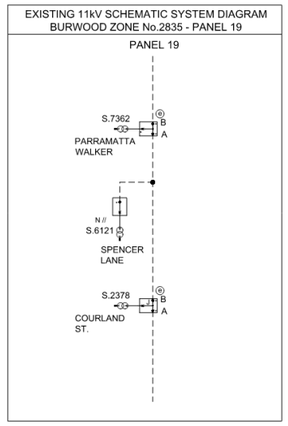
EXISTING 11kV SCHEMATIC SYSTEM DIAGRAM
BURWOOD ZONE No.2835 - PANEL 24



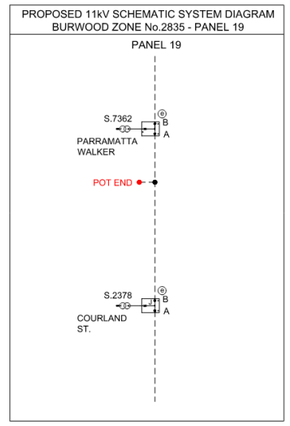
PROPOSED 11kV SCHEMATIC SYSTEM DIAGRAM
BURWOOD ZONE No.2835 - PANEL 24



EXISTING 11kV SCHEMATIC SYSTEM DIAGRAM
BURWOOD ZONE No.2835 - PANEL 19

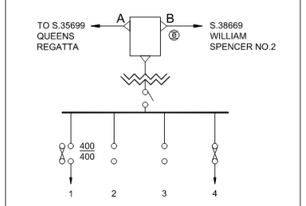


PROPOSED 11kV SCHEMATIC SYSTEM DIAGRAM
BURWOOD ZONE No.2835 - PANEL 19



EXISTING SUBSTATION SCHEMATIC DIAGRAM

S.36176
QUEENS REGATTA NO.2

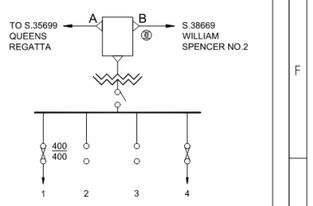


LV DISTRIBUTOR DETAILS

DIST	DESTINATION
1	QUEENS RD & S370 (N/O) (400/400)
2	WDNO
3	WDNO
4	95 QUEENS RD

PROPOSED SUBSTATION SCHEMATIC DIAGRAM

S.36176
QUEENS REGATTA NO.2



LV DISTRIBUTOR DETAILS

DIST	DESTINATION
1	QUEENS RD & WILLIAM ST NORTH & S.38669 (400/400)
2	WDNO
3	WDNO
4	95 QUEENS RD

CAD DRAWING
AMENDMENTS

ASSOCIATED DRAWINGS

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SUBMIT DATE	SUBMITTED 28/03/2024
LGA	City of Canada Bay
MAP REF.	UBD 234A11
AUSGRID REF.	LE14141
PRJTRAK No.	
ASP REF.	230248

CERTIFICATION NUMBER 6685508/20240411

New KL S38669
DECOM S370 & S6121
AT 153 PARRAMATTA RD,
FIVE DOCK

SIZE	AUSGRID PROJECT No.	SHEETS	AMD
A1	AN-25680	4 of 5	0

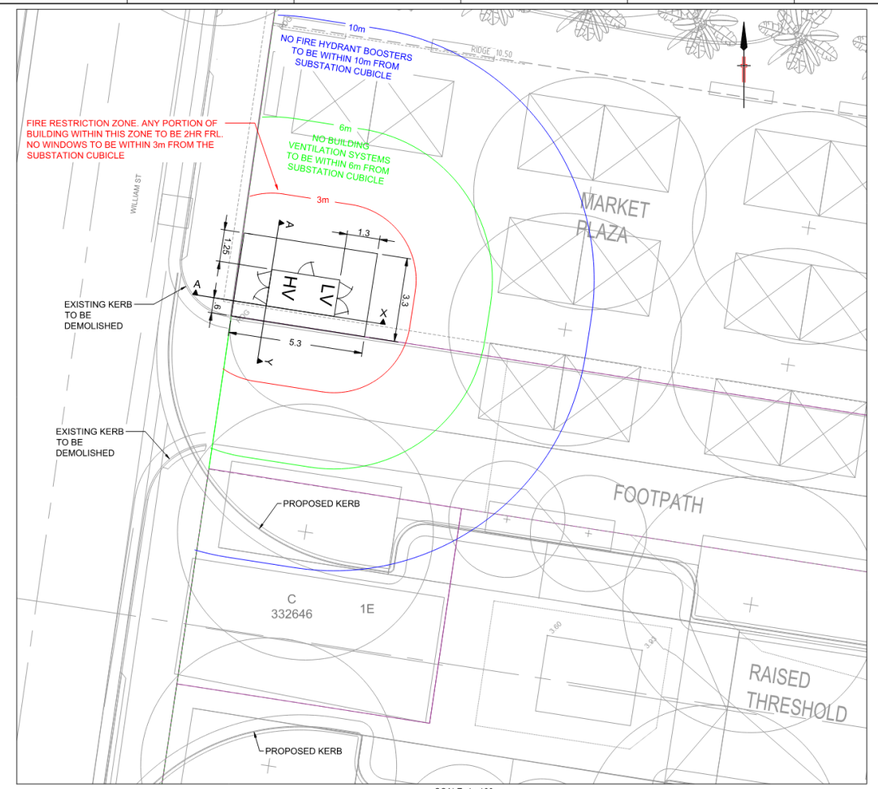
20160817

PROPOSED EASEMENT PLAN

SCALE 1 : 250

0 5 10 15 20 METRES 25

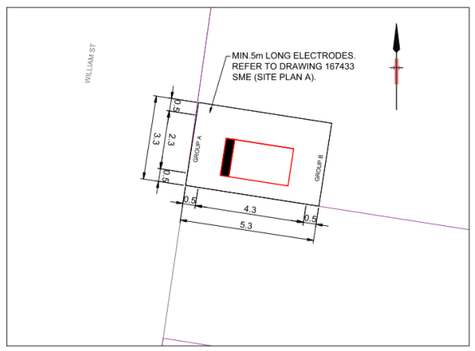
PROPOSED EASEMENT FOR ELECTRICITY & OTHER PURPOSES MINIMUM 5.3m x 3.3m



SUBSTATION RESTRICTION ZONES

SCALE 1 : 100

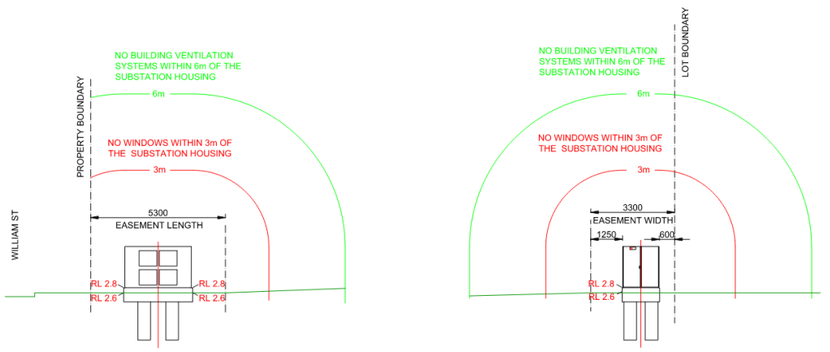
0 2 4 6 8 10 METRES



EARHTING LAYOUT

SCALE 1 : 100

0 2 4 6 8 10 METRES



KIOSK SUBSTATION PROFILES

SCALE 1 : 100

0 2 4 6 8 10 METRES

CAD DRAWING

AMENDMENTS

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ASSOCIATED DRAWINGS

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AUTH NO.	33421
SUBMIT DATE	SUBMITTED 28/03/2024
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