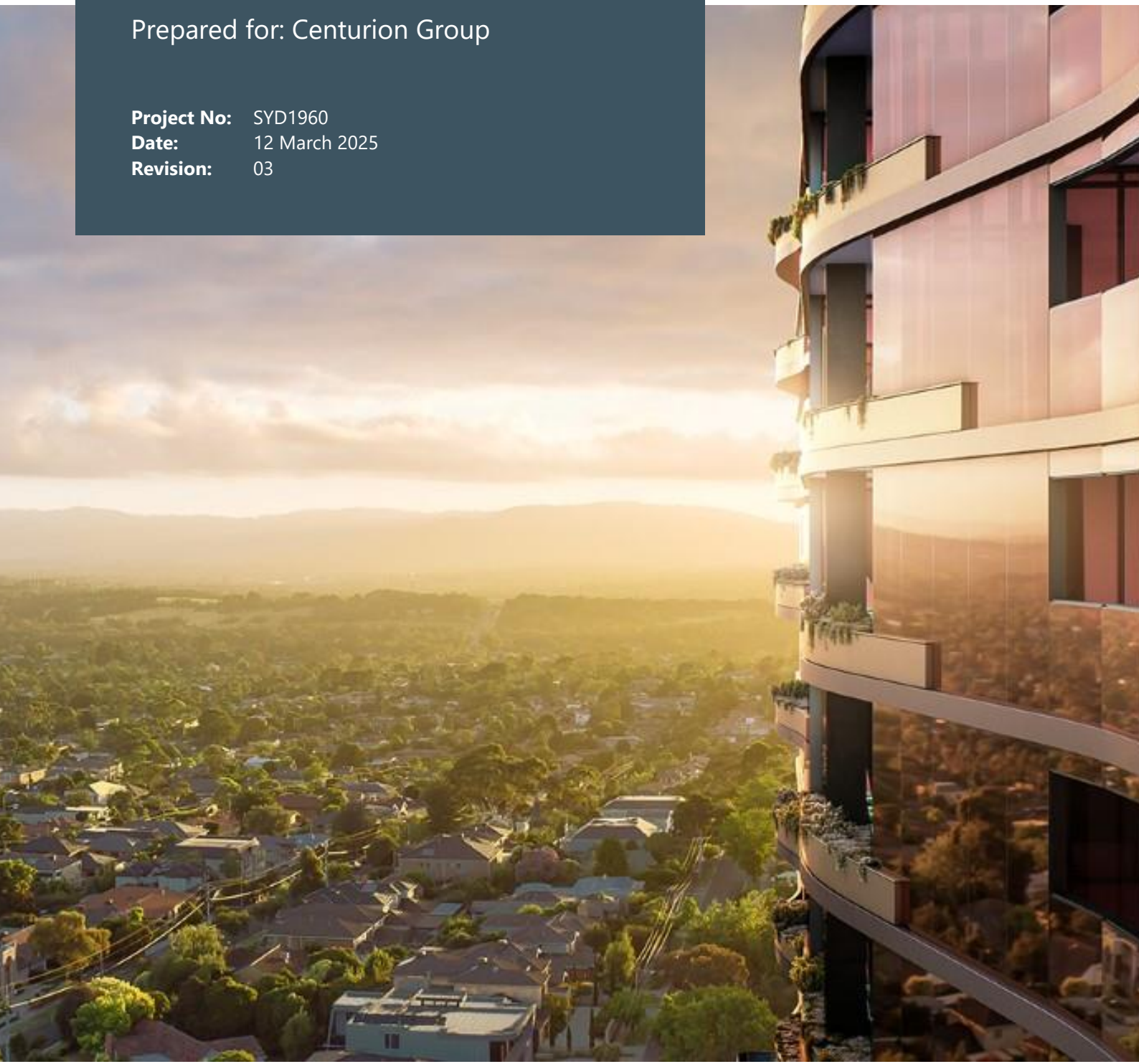


SummitCare Penrith

SSDA Infrastructure Report

Prepared for: Centurion Group

Project No: SYD1960
Date: 12 March 2025
Revision: 03



Project: SummitCare Penrith
Location: 366 Jamison Road
Jamisontown, NSW, 2750
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Project No: SYD1960
Revision: 03
Date: 12 March 2025

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Project Team

Project Manager Centurion Group



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1. Executive Summary

This report provides an infrastructure due diligence of the existing in-ground infrastructure surrounding and serving the site at 366 Jamison Road, Jamisontown, NSW 2750. The existing building on site will be demolished to make way for a new Summit Care aged care facility, with services provisions to cater for the new ILUs, a new RACF, on-site kitchen, laundry and resident facilities.

ADP have undertaken a desktop review of the information provided from the site Before You Dig Australia (BYDA) search.

The report provides an overview of the following information relating to each service:

- Existing infrastructure surrounding and serving the site.
- Estimated new infrastructure works associated with the development.
- A summary of additional infrastructure items to be resolved as part of the project design.

The report identifies the risks and opportunities for the related works.

2. Introduction

2.1 Project Description

The subject site, 366 Jamison Road, Jamisontown, is occupied by an existing Summit Care. Based on the plans submitted by the architect the existing building on site will be demolished to allow for the construction of the new Summit Care aged care facility.



Figure 1 Site location (Source: Google maps)

2.2 Purpose of the Report

This report provides an infrastructure due diligence of the existing authority infrastructure surrounding and serving the current site. This includes an overview of the following in-ground services:

- > Water & Sewer (Sydney Water)
- > Power (Endeavour Energy)
- > Telecommunication (Telstra, NBN, Vocus, Primus, AARNet, NextGen, PIPE, Verizon and Optus)
- > Gas (Jemena)
- > Water (Penrith City Council)

2.3 Information Sources

The following information sources have been utilised to prepare this report:

- > Before You Dig Australia (BYDA) information packages
- > Architectural drawings by Jackson Teece Group.
- > Preliminary feedback received to date from authorities.
- > Endeavour Energy WebGIS

3. Site Infrastructure Overview

3.1 General

The following section of the report provides a description of the existing infrastructure and proposed works associated with the refurbishment.

Authority infrastructure reviewed in this report includes:

- > Electrical (Endeavour Energy)
- > Telecommunications (NBN or Telstra)
- > Water & Sewer (Sydney Water)
- > Gas (Jemena)

3.2 Infrastructure Matrix

There is limited information available on the status of consultation with the Authorities. The following matrix summarises our understanding of the status of the Authorities works.

Table 1 Infrastructure Matrix

Authority	Scope of Works	Status
Endeavour Energy	Establishment of new Padmount substation on site.	Endeavour Energy to be notified of the new works. Level 3 design to commence once design information package released by authority.
Telstra	N/A – Summit Care telecommunication services are provided by NCIS. Existing services the be decommissioned and removed.	Application for services removal to form part on detailed design
NBN	N/A – Summit Care telecommunication services are provided by NCIS.	N/A
Sydney Water	Connect to water main on Jamison Road for Hydraulic and fire requirements. Connect to existing Sewer junction on Harris Street.	Two off PFI submitted, one received Submission of Section 73 to Sydney Waters will be required post SSDA approval Trade waste agreement to be submitted by contractor
Jemena	New gas connection on Jamison Road	Gas application to be lodged by contractor

3.3 Funding

The project in its entirety will be delivered in a single stage under a single construction contract for the works. The funding sought will be via bank finance under a construction loan agreement with an Australian major banking institution, most likely with the developer funding an initial 20% of the required financial total for the development cost.

4. Electrical Infrastructure

4.1 Existing Infrastructure

Based upon Endeavour Energy WebGIS, there is an existing Endeavour Energy padmount substation 18057 located at eastern side of development along McNaughton St property boundary.

Existing Endeavour Energy underground high voltage network also runs on the western side of McNaughton St (per the image below).

The existing Endeavour Energy 500kVA padmount substation 18057 is currently supplying the development site via one of the LV distributors in the substation. The substation is also supplying other approximate 14 residential customers on McNaughton St south, and approximate 12 customers on McNaughton St north and on Mulgoa Rd, the substation is also providing the power supply to the local public lighting assets on McNaughton St, Jamison Rd and Mulgoa Rd.

The supply rating of Substation 18057 is 720A. The current load on this substation is 640A, which leaves a spare capacity of 80A at this substation.

Figure 2 Endeavour Energy HV network

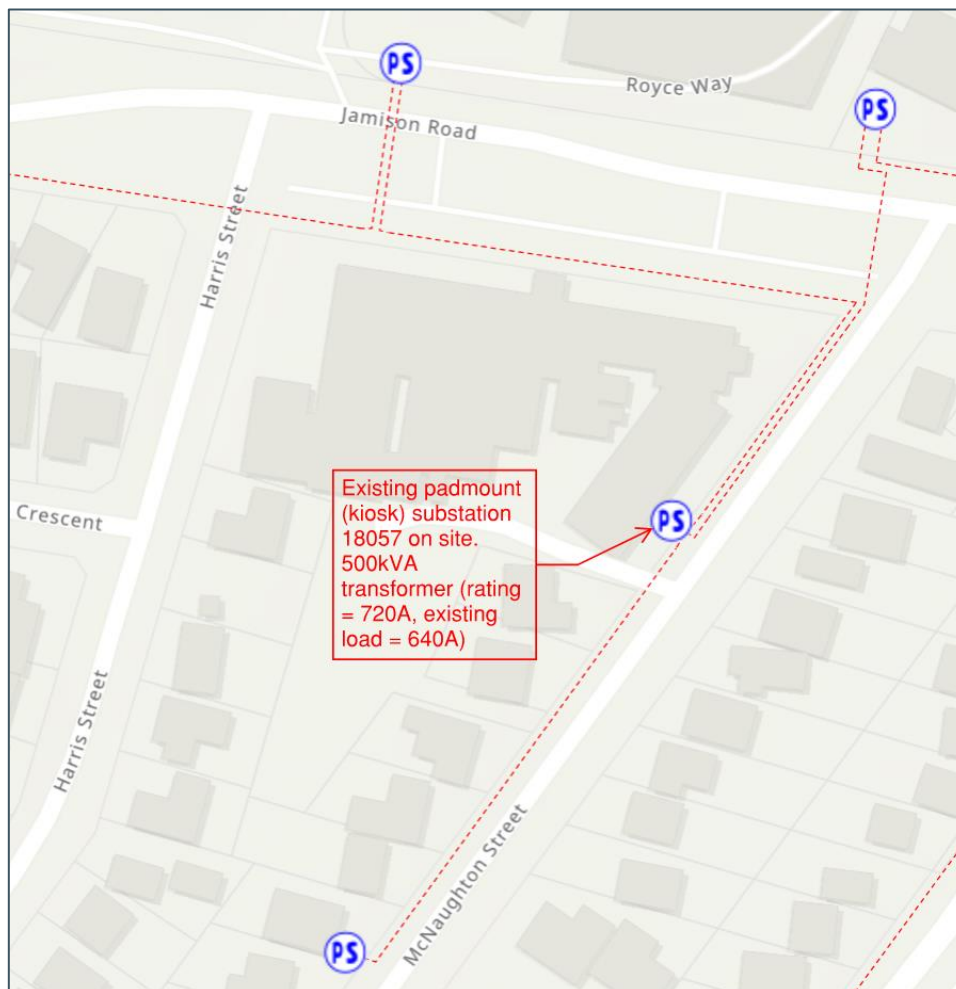
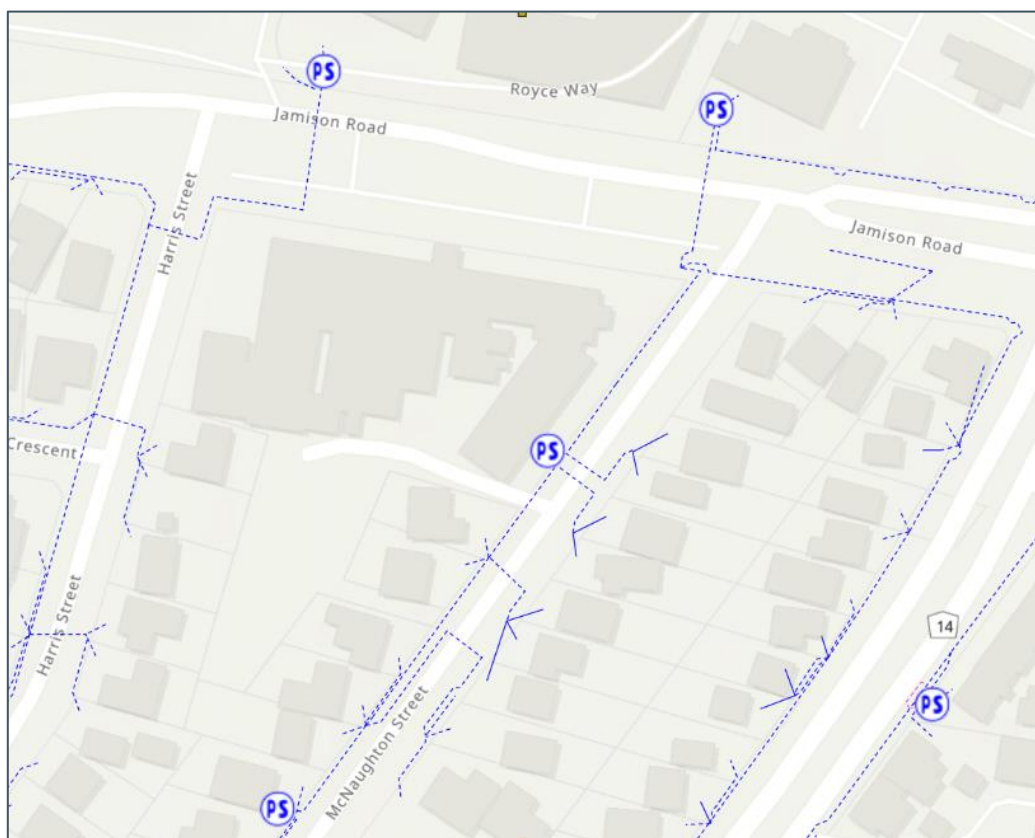


Figure 3 Endeavour Energy Infrastructure (LV network)



4.2 Electrical Maximum Demand

The anticipated maximum demand for the proposed development site, based on calculations carried out in accordance with AS/NZS 3000:2018, is 752A.

Table 2 Maximum Demand Assessment

Space	Area (m2)	VA/sqm	kVA	A (3-ph)
Circulation and stairs	2152	10	22	31
Carpark	4885	10	49	71
Storage / Plant	577	15	9	13
Staff	121	40	5	7
Laundry	62	500	31	45
Activity (incl. cinema, gym, hair dresser etc.)	181	40	7	10
Commercial Kitchen	127	600	76	110
Café & Servery	30	200	6	9
Units	Quantity	kVA per unit	kVA	A (3-ph)
Room	23	1.5	35	50
1-Bed unit	7	2	14	20
2-Bed unit	62	2.5	155	225
3-Bed unit	12	3	36	52
Mech loads	Load		Diversified Load	A (3-ph)
Basement	53.0		40	58
GF	59.0		49	71
L1	30.0		23	33
L2	30.0		23	33
L3	30.0		23	33
Allowances	Quantity	VA	kVA	Total A (3-ph)
Cool and freezer room	1	9000	9	13
Lifts	8	22000	110	159
		Sum	649	940
Other	Diversity			752

Note: assumed gas cooking

4.3 New Works Associated with Electrical Infrastructure

The existing substation does not have adequate spare capacity to provide the site with the anticipated 752 Amps. Network augmentation works on the Endeavour Energy network will be required to provide the required supply for the proposed development. It is anticipated that a new onsite padmount substation will need to be installed to provide the required supply.

With the existing substation and UG HV network status on McNaughton St and Jamison Rd, there are 2 options of installing the new padmount substation to supply the development:

1. Install one new substation on site & keep the existing substation 18057, the full load of new substation supply capacity can be dedicated to the development site only, the new substation location is flexible along McNaughton St or Jamison Rd.
2. Install a new 1500kVA substation near sub18057 and decommission substation 18057. Utilise the new substation to supply the development and maintain power supply to the existing residential customers.

The new Padmount substation ASP3 design works, subject to detailed design requirements, will likely include the following high-level scope:

- > Liaison with Endeavour Energy to lodge a Connection application.
- > Obtain a Connection Offer from Endeavour Energy to assist with SSDA lodgement.
- > New underground HV network installation from street to the new substation.
- > New Consumers Mains from the new substation to a new Site Main Switchboard.
- > New substation associated LV works.

4.4 Next steps

The following items will be required to be addressed as part of the project design:

- > Proceed with lodgement of the "application for connection" to the supply authority to commence confirmation of the electrical connection requirements, for supply authority assessment.
- > ADP Level 3 designer to progress with detail design based on the authority assessment outcome.
- > Endeavour Energy contestable design process to commence, with a certified design to be achieved.

5. Telecommunications

5.1 Existing Infrastructure

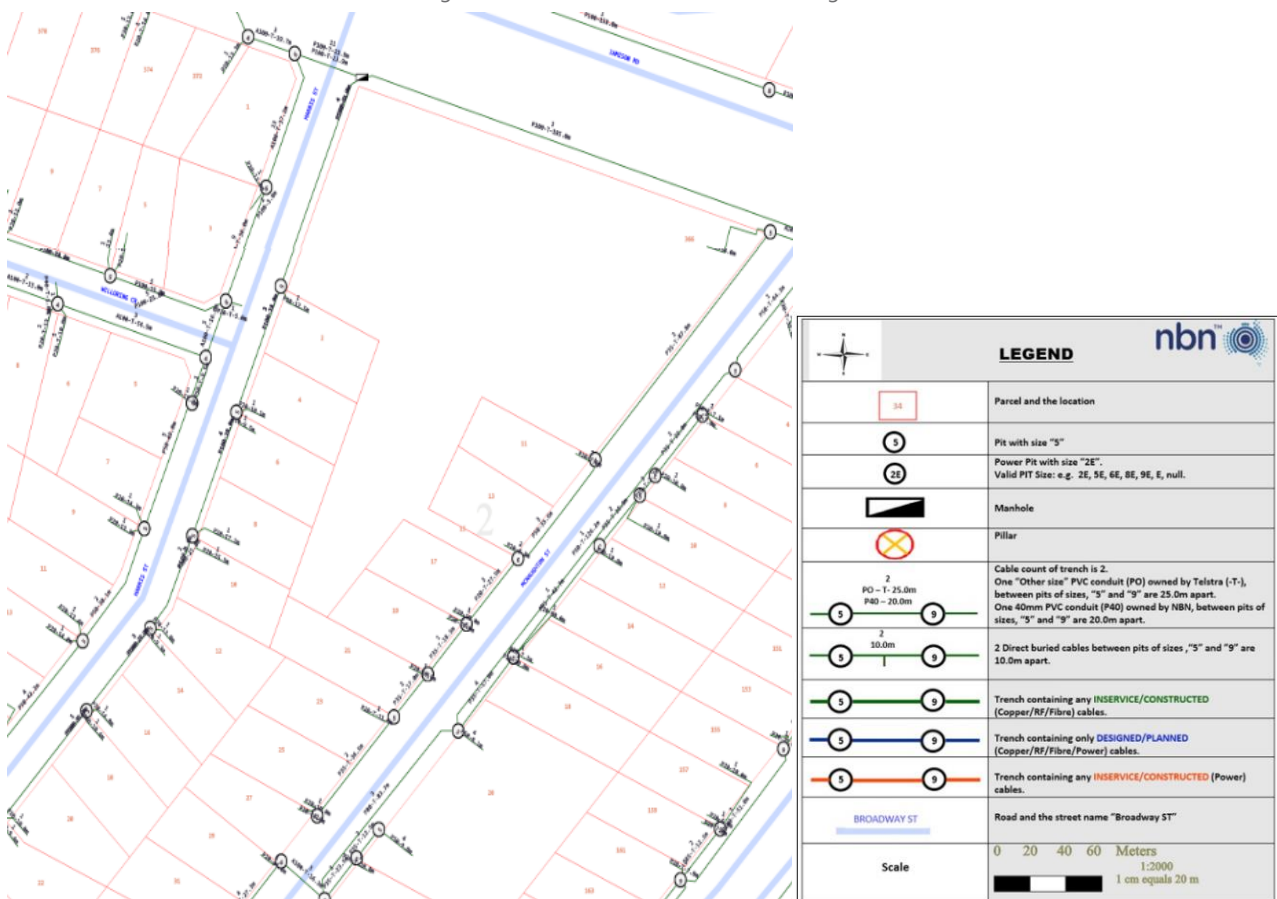
The current BYDA indicates that in-ground communication services run along the site's Jamison Rd, Harris St and McNaughton St boundary. The telecommunication services listed below are available to the site.

- > NBNco
- > Telstra
- > TPG

5.1.1 NBN Co.

The current BYDA information indicates NBNco in-ground services are sharing the pathway with Telstra pits, running along the Jamison Rd, Harris St and McNaughton St site boundary as seen below.

Figure 3 NBNCo Infrastructure & Legend



5.1.2 Telstra and TPG

Above mentioned telecommunications assets for connection are available in the vicinity of the development area. Connection may be available should the developer choose to select from these infrastructure providers.

Figure 4 Telstra Infrastructure & Legend

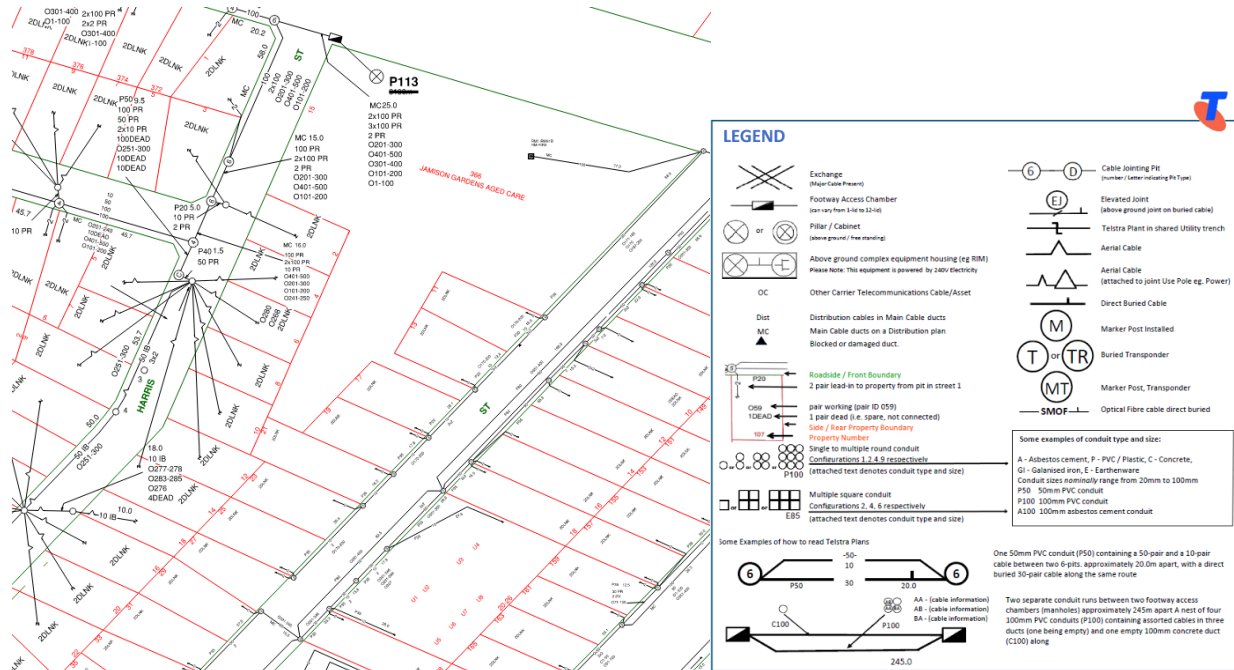
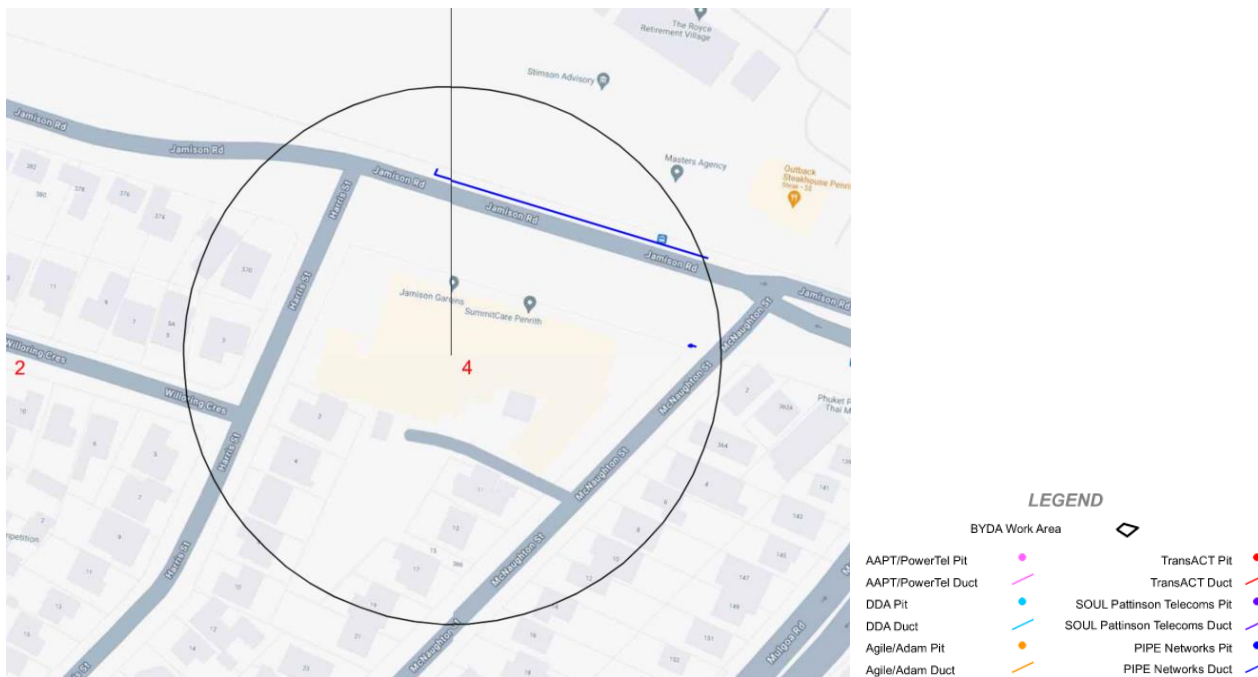


Figure 5 TPG Infrastructure & Legend

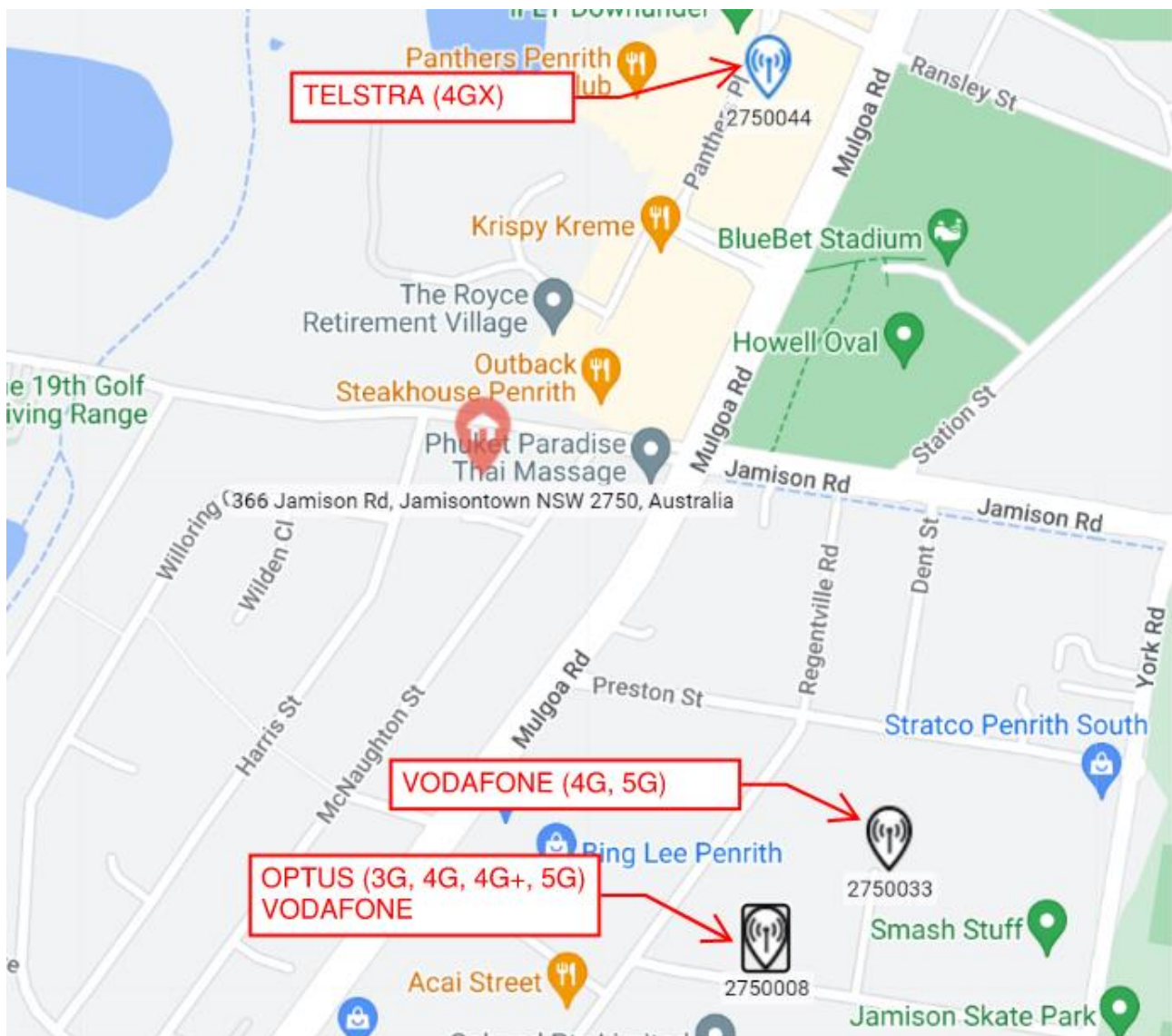


5.2 Carrier Cell Towers

Table 3 Carrier Cell Towers

Tower Code	Operating Carriers	Address
2750044	Telstra (4GX)	Penrith Panthers, Lot 1 Ransley Street, Penrith NSW 2750
2750033	Vodafone (4G, 5G)	5 Harford Street, Jamisontown NSW 2750
2200025	Optus (3G, 4G, 4G+, 5G), Vodafone	21-23 Abel Street, Jamisontown NSW 2750

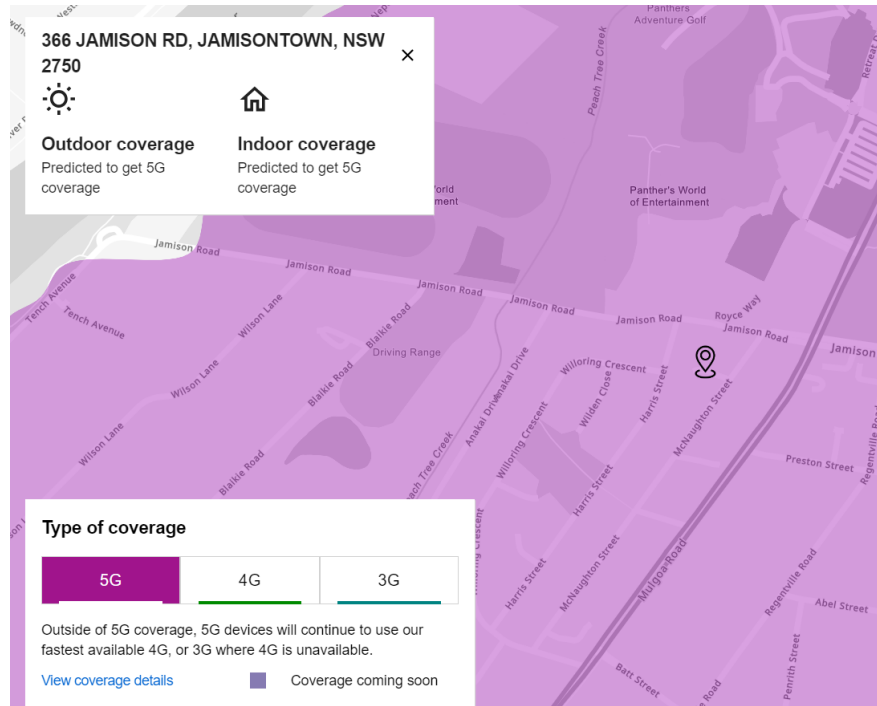
Figure 6 Mobile Telephony Cell Towers



5.2.1 Telstra - 5G Coverage

It is predicted that Telstra 5G coverage is available in the area. The purple indicates 5G signal coverage within the outdoor areas and the green indicates 4G signal coverage within the outdoor & indoor areas.

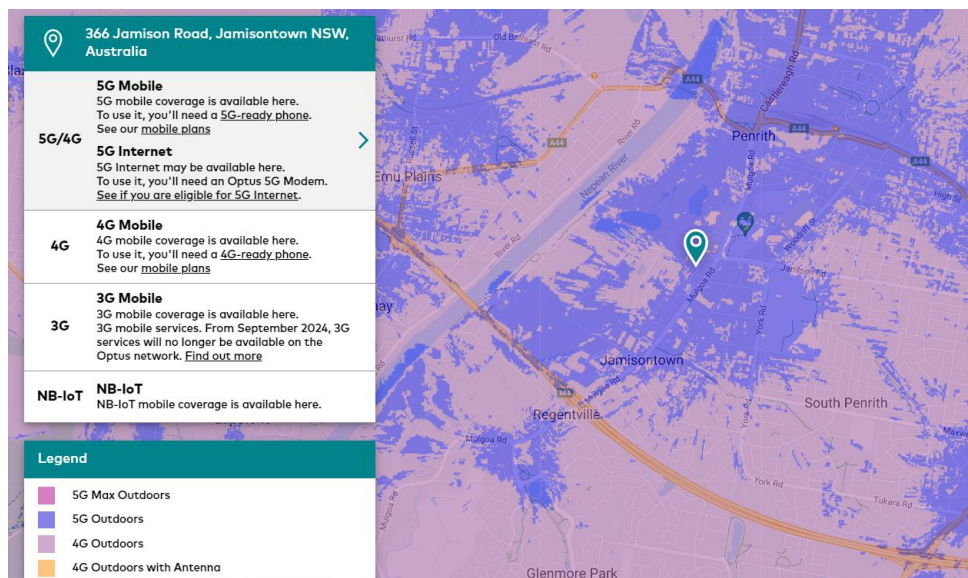
Figure 7 Telstra - 5G & 4G Coverage Map



5.2.2 Optus - 5G Coverage

Additionally, it is predicted that Optus 5G coverage is available in the area. The purple indicates 5G signal coverage within the outdoor areas and the pink indicates 4G signal coverage within the outdoor areas.

Figure 8 Optus - 5G & 4G Coverage Map



5.3 New Works Associated with Telecommunications Infrastructure

The new development will require relocation, decommission and removal of the existing services from the frontage of the development site.

Applications to telecommunication providers should always be made at the first convenience once requirements are further identified and confirmed to avoid potential delays.

5.4 Gigabit Passive Optic Fibre

A nominated GPON operator can provide a new fibre connection from the existing NBN Co., Telstra or TPG pit and pipe network within the area to the site.

No network connection applications will be required by the Client and the GPON operator are able waive connection fees provided the network infrastructure requires less than 1km of new lead-in fibre and an ongoing service connection is taken up.

5.5 Items to be Resolved

The following items will be required to be addressed as part of the project design:

- > Additional application to NBN Co. may be required to decommission and remove existing services;

Note the site infrastructure is designed based on a GPON system to be established as discussed in the meeting. Where changes to an alternate system (NBN Co.) are required, a separate application to the authority will be required.

6. Water and Sewer Infrastructure

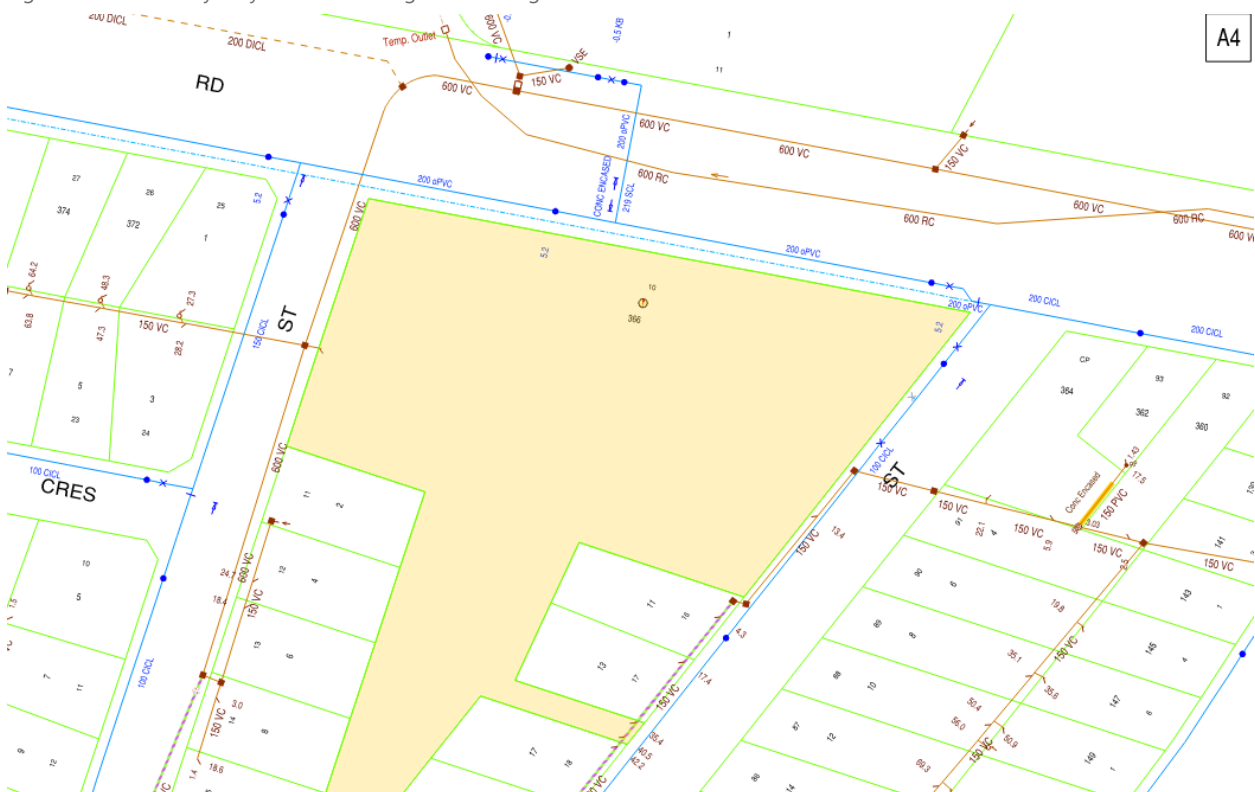
6.1 Existing Infrastructure

The DBYD information provided by Sydney Water indicates there is an existing water and sewer network. The existing water and sewer services system in the area of the development can be summarised as follows:

- > DN200 PVC water main along Jamison Road
- > DN100 CICL water main along McNaughton St
- > Existing Sewer Junction in property at Harris St.

Two off pressure and flow inquiries (PFI) have been submitted to Sydney Water. The PFI results will indicate the available pressure and flow from Sydney Water mains to the site.

Figure 9 PFI Sydney Water – Existing Assets along Jamison Street.



6.2 Water and Sewer Max Demand Calculations

The below calculations demonstrates the expected average, maximum and peak hydraulic demand of the proposed childcare centre. Using the guidelines provided by Sydney Water.

6.2.1 Building A, B, C & RACF Water and Sewer Max Demand Calculations

- > The total site estimated average demand for potable water @ 42,277.9L/day and the average wastewater demand @ 33,822.3L/day. Refer to table 1 & 3
- > The total site estimated maximum demand for potable water @ 55,724.9L/day and the maximum wastewater demand @ 44,579.9L/day. Refer to table 2 & 4
- > The total site estimated peak demand in L/s for potable water @ 8L/s. Refer to table 5

Table 4 Estimated Average demand table (as per Sydney Water Guidelines)

Building Reference	Area (m2)	Average Demand (L/m2/day)	Average Potable Water (L/day)
BUILDING A	3660	3.34	12224.4
BUILDING B	3454	3.34	11536.36
BUILDING C	3677	3.34	12281.18
Total Area		Total Potable Water Avg Demand	36041.94
		Total Wastewater Avg Discharge	28833.552

Table 5 Estimated Maximum demand table

Building Reference	Area (m2)	Average Demand (L/m2/day)	Max Potable Water (L/day)
BUILDING A	3660	4.34	15884.4
BUILDING B	3454	4.34	14990.36
BUILDING C	3677	4.34	15958.18
Total Area		Total Potable Water Max Demand	46832.94
		Total Wastewater Max Discharge	37466.352

Table 6 Estimated Average demand table (as per Sydney Water Guidelines)

Building Reference	Area (m2 or per unit)	Average Demand (L/m2/day)	Average Potable Water (L/Day)
Bedrooms	20 (per unit)	271	5420
Kitchen/Café	168	2.48	416.64
Office	176	2.27	399.52
		Total Potable Water Avg Demand	6236.16
		Total Wastewater Avg Discharge	4988.928

Table 7 Estimated Maximum demand table Building D

Building Reference	Area (m2)	Average Demand (L/m2/day)	Max Potable Water (L/day)
Bedrooms (Per Bed)	20 (per unit)	370	7400
Kitchen/Café	168	4.34	729.12
Office	176	4.34	763.84
		Total Potable Water Max Demand	8892.96
		Total Wastewater Max Discharge	7114.368

Table 8 Estimated PSD (Potable Simultaneous Demand) Peak Flow Rate L/s

Building Reference	Units	PSD	TOTAL PSD (L/s)
BUILDING A	29	3.32	3.32L/s
BUILDING B	24	2.95	2.95L/s
BUILDING C	28	3.25	3.25L/s
BUILDING D (RACF)	150/Loading Units	150	1.42L/s
		Estimated Total Site PSD	8L/s

6.3 Existing Water Services

ADP have made two off pressure and flow inquiries (PFI) have been submitted to Sydney Water, one for the DN200 water main on Jamison Road and one for the DN100 water main on McNaughton St.

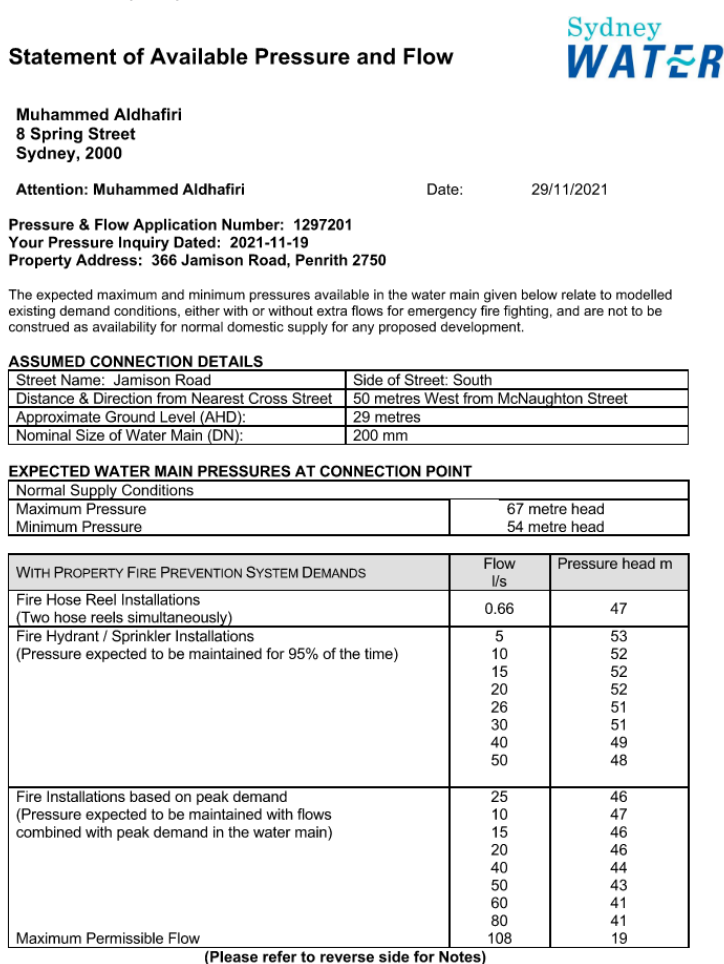
We have received both results:

- > McNaughton Street pressure and flow at 20L/s @ 45M/h; and
- > Jamison Road 50L/s @ 48m/h.

The flow and pressure in McNaughton Street is adequate for hydraulic services usage without pumps, this flow will not be great enough for fire services flow. Refer to fire section for details.

The Jamison Road pressure and flow (see snapshot below) is adequate for hydraulic and fire flows without the need of tanks or pumps.

Figure 10 Sydney Water Pressure and Flow Results



6.4 Sewer Services

There is an existing sewer junction located in Harris Street which is directly connected to a DN600 sewer main. Based on our max demand calculations the sewer infrastructure should be capable of the site discharge without upgrade. A section 73 application will need to be made to confirm this.

A Trade waste agreement will need to be made with Sydney Water for grease waste and heated water discharge from the commercial kitchen and laundry. This doesn't need to be made until construction works are undertaken.

6.5 Water & Sewer Services Staging

The proposed works will be delivered as a single stage.

6.6 Items to be resolved

The following items will need to be confirmed during the design development process:

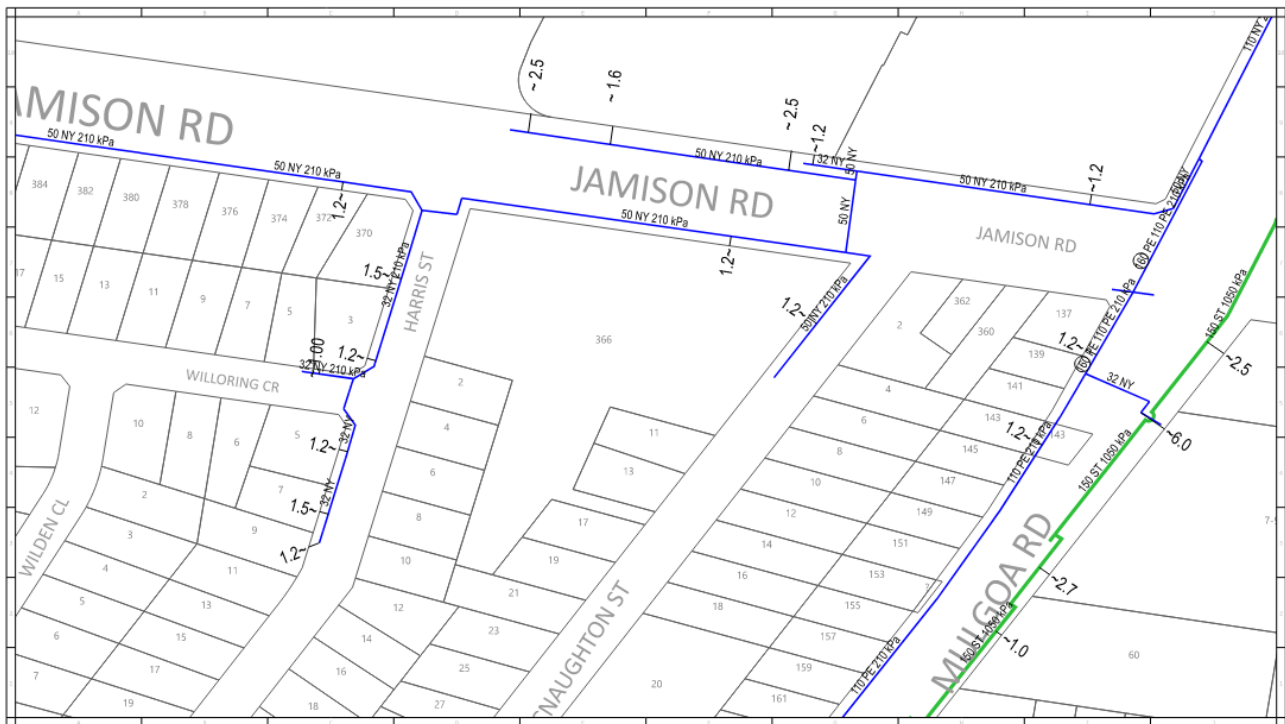
- > Section 73 Application to confirm connection points for sewer and water
- > Invert level of sewer Junction
- > Final Size for sewer and water
- > Method of reticulation to serve site

7. Existing Gas Infrastructure

7.1 Existing Infrastructure

The DBYD information provided by Jemena indicates an 50mm NY network gas main (210kPa) is currently on the southern side of Jamison Road. The existing main appears to have the capacity for the proposed development.

Figure 11 Gas Infrastructure



7.2 New Works associated with Gas Infrastructure

A new gas service will be required for the new development. A new application will need to be provided to Jemena to make connection to the existing gas infrastructure.

7.2.1 Building A, B,C & RACF Water and Sewer Max Demand Calculations

We have assumed the following gas appliances will be used on site as the worst case senior gas consumption requirements:

- > For each unit across building A,B&C, individual continuous flow hot water & cooktop
- > For building D (RACF) 1 x Commercial kitchen standard equipment load

Table 9 Estimate Natural Gas Consumption MJ/hr

Building Reference	Units	Diversity Factor	TOTAL MJ/hr
BUILDING A	29	0.357	1,830 MJ/hr
BUILDING B	24	0.326	1,706 MJ/hr
BUILDING C	28	0.326	1,817 MJ/hr
BUILDING D (RACF)	Commercial Kitchen Appliance Assumption	0	600MJ/hr
Estimated Site Total Site MJ/hr		0.195	3705MJ/hr

7.3 Natural Gas Services Staging

The proposed works will be delivered as a single stage.

7.4 Items to be resolved

The following items will need to be confirmed during the design development process in order to determine the development gas demand:

- > Gas load (MJ/hr) for the proposed building (kitchen cooking, special plant or equipment requiring gas, etc.)
- > Gas connection to the existing gas main
- > Jemena yet to be notified of the new works via application
- > Final gas pipework reticulation

8. Existing Stormwater Infrastructure

8.1 Existing Stormwater Infrastructure

A desktop review of the DBYD information provided by Penrith City Council indicated the stormwater pit and pipes servicing the site on the west at Harris Street. An existing connection to the proposed site can be found on the boundary adjacent to No.2 Harris Street. As shown in Figure 12. However, pits and pipe sizes are not specified in the information provided. A contour map (Figure 13) presented below was created with NSW Government - Spatial Services 1-meter Digital Elevation and Sixmaps to identify the existing site elevations and gradings. The existing site falls towards Harris Street to the west.

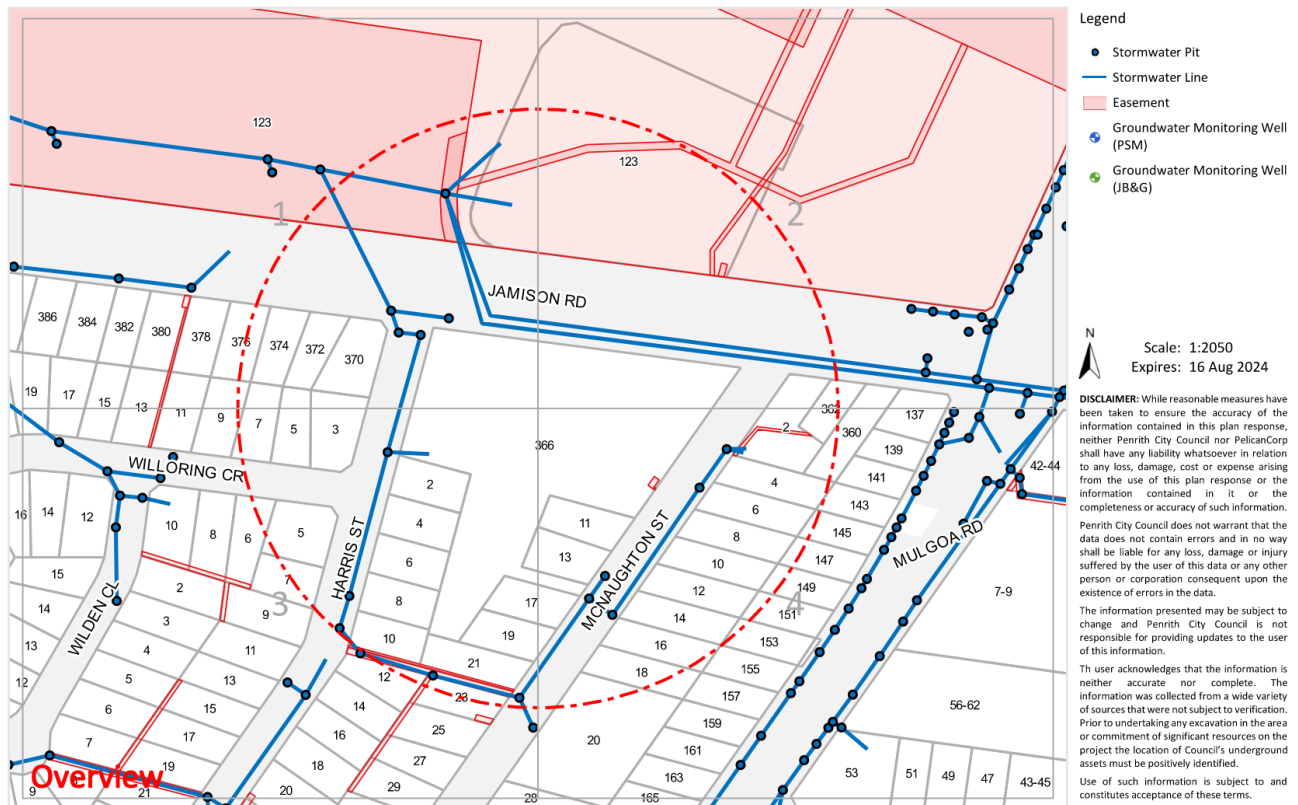


Figure 12 BYDA Stormwater Overview - Penrith City Council

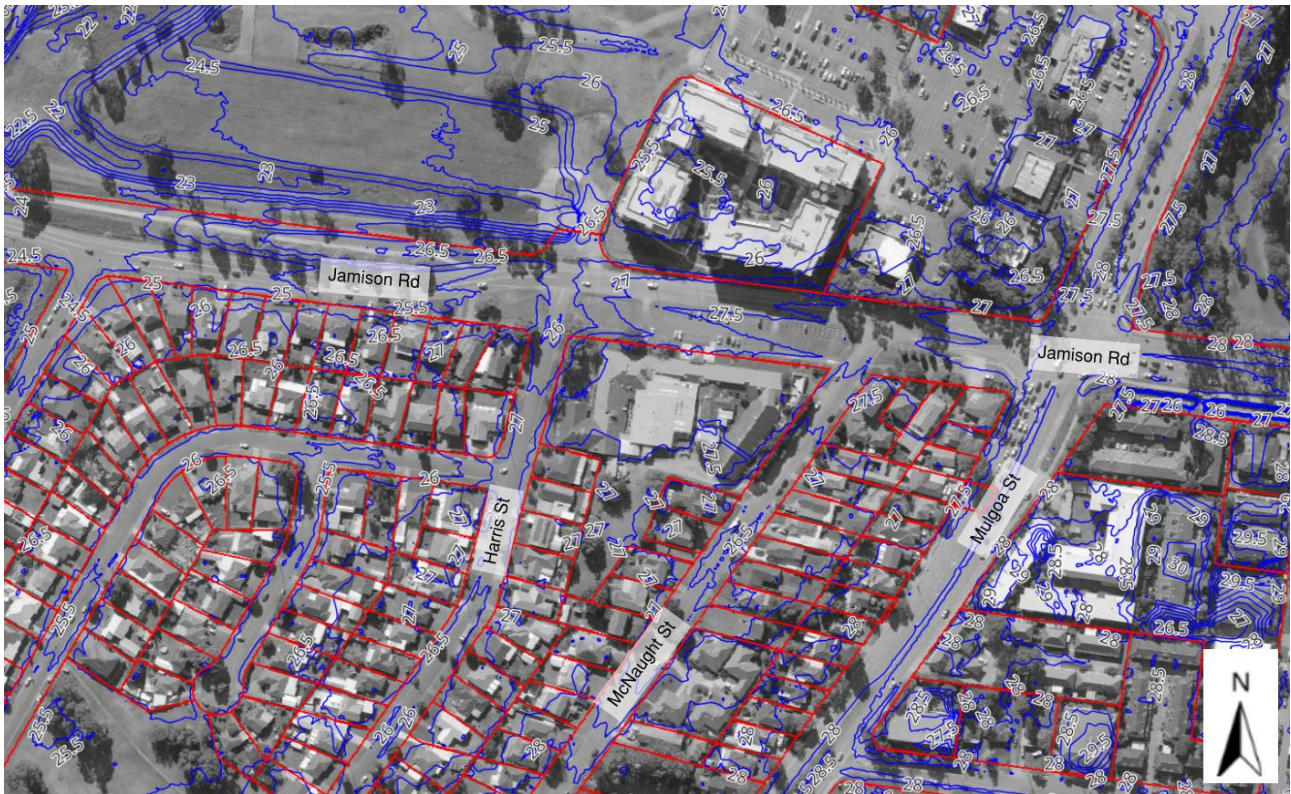


Figure 13 Sixmap with NSW Government Spatial Service DEM contours

8.2 Proposed Stormwater Design

In accordance with Penrith City Council requirements, the stormwater drainage system(s) have been designed to cater for the 1% Annual Exceedance Probability (AEP) flood.

The Civil/Stormwater management drawings in Appendix A present the strategy and overall design intent of stormwater conveyance across the site. The discharge of stormwater from the site to Council's drainage system in Harris Street is by gravity and controlled by a single On-Site Detention (OSD) tank sized for storm events up to the 1% AEP. Runoff from the site discharges into the existing Council drainage systems at three discharge points annotated Discharge Point A in Harris Street, Discharge Point B in the existing carpark along Jamison St and Discharge Point C in McNaught Street as shown on the attached stormwater drawings CE101 and C102 stormwater plans in Appendix B.

The drainage system was designed to limit the peak flows into the existing Council drainage system to the pre-development flows. Refer table below for a summary of pre and post development site discharges as modelled in DRAINS.

Table 10 Summary of Site Peak Discharges

Discharge Points	Pre-Development Total Sub-Catchment Areas	Post Development Total Sub-Catchment Areas	Pre-Development Flows		Post Development Flows	
			20%AEP Peak flows	1%AEP Peak Flows	20%AEP Peak Flows	1%AEP Peak Flows
			L/sec	L/sec	L/sec	L/sec
Discharge Point A	0.49	0.66	150	301	150	293
Discharge Point B	0.21	0.14	54	118	30	72
Discharge Point C	0.41	0.31	87	199	75	168
Total Area	1.11	1.11				

8.3 Stormwater On-Site Detention

In accordance with Penrith City Council Stormwater Drainage Specification for Building Developments, post-development site discharges must be restricted to the pre-development flows. Peak post development flows to discharge points B and C were limited to peak discharges below the pre-development flows by directing majority of the catchments to discharge point A. Peak post development to discharges to point are managed by an OSD with controlled flows to the existing Council peak Harris Street.

The proposed OSD volume and size has been modelled in DRAINS using ILSAX hydrology and Australian Rainfall and Runoff 2019 (ARR 2019) methods. Peak detention volume required to limit flows from the 1% AEP to the pre-development flows is 78m³. Post development peak flow discharges are as shown in Table 1 above.

The OSD is an underground detention tank to be installed under access road from Harris Street. During more frequent events up to the 20% AEP, discharge from the OSD are limited to the pre-development flows by a pipe discharge with an orifice plate. An internal overflow weir within the OSD has also been provided, in the event of any blockages to the discharge pit and pipe system to Harris Street. In case of emergencies or when storms larger than the 1% AEP event occur, an open grate and grated drain to allow stormwater to escape and flow overland towards Harris Street drainage system.

8.4 Stormwater Quality

In accordance with Penrith City Council Water Sensitive Urban Design Policy, the following performance criteria have been adopted:

- > 85% reduction in total suspended solids (TSS)
- > 65% reduction in total phosphorus (TP)
- > 45% reduction in total nitrogen (TN)
- > 90% reduction in gross pollutants (size >5mm)

8.5 Water Quality Treatment Train

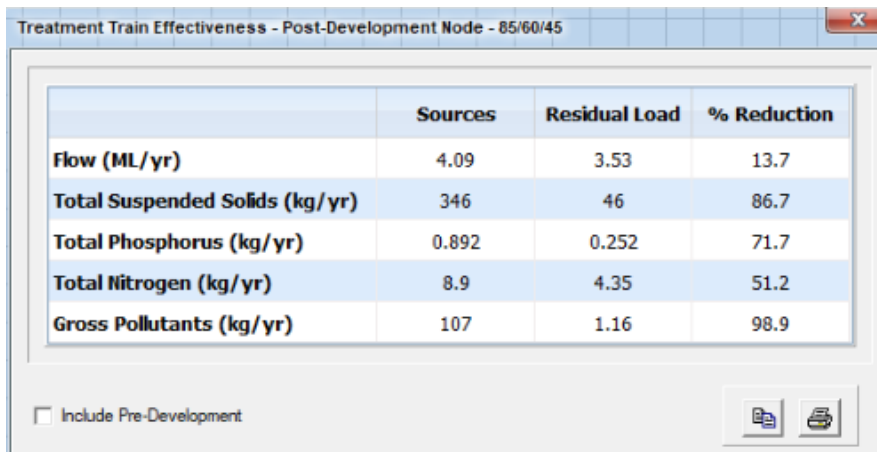
The design strategy for water quality treatment included all trafficable surfaces are proposed to connect to the proprietary Water Quality systems (located within the OSD tank), while non-trafficable roof area will first discharge to the rainwater tank prior to discharge to the OSD. This is further described below.

The following WSUD measures have been adopted for the site:

- > Rainwater Tank - A single underground rainwater tank measuring 25kl forms part of a single tank which also include the OSD and WSUD proprietary systems. All non-trafficable roof rainwater shall be routed to this tank and be made available for reuse on-site. The final volume of the rainwater tank shall be confirmed at the CC stage in accordance with BASIX requirements and coordination with the hydraulic engineer.
- > Gross Pollutant Trap – OceanGuard gross pollutant trap has been proposed for all drainage pits in landscaped and trafficable areas.
- > Tertiary treatment filter cartridges - SPELFilter cartridges have been proposed within a Water Sensitive Urban Design (WSUD) chamber integrated within the OSD tank. Another SPELFilter cartridges chamber have been proposed for drainage system discharging to Discharge point C as shown on drawings C102 Stormwater Plan in Appendix B.

8.6 Water Quality Modelling

Conceptual modelling of water quality was undertaken using the MUSIC 6 software. The overall MUSIC analysis results are shown below:



	Sources	Residual Load	% Reduction
Flow (ML/yr)	4.09	3.53	13.7
Total Suspended Solids (kg/yr)	346	46	86.7
Total Phosphorus (kg/yr)	0.892	0.252	71.7
Total Nitrogen (kg/yr)	8.9	4.35	51.2
Gross Pollutants (kg/yr)	107	1.16	98.9

☐ Include Pre-Development

Figure 14 MUSIC modelling Results

The above result has considered a rainwater reuse rate of approx. of 0.4kL/m²/year as PET-Rain for irrigating the entire landscaped area. No other reuse demands have been considered at this stage. It is assumed that rainwater tank reuse demand would be modified at the CC stage subject to BASIX requirements. Refer to the MUSIC catchment area and treatment train drawing in Appendix B for more detail.

8.7 Items to be resolved

From the information provided by Penrith City Council and council Online mapping the pipe sizes and capacity cannot be confirmed at this stage. To provide a design in accordance with DCP, a detailed survey for in-ground services is required to identify the stormwater infrastructure's sizes, locations and alignment. Verification of sizing of pipe sizes will be provided once we receive detailed contour survey information. For the existing pipe capacity, ADP will request relevant information from Penrith City Council.

Appendix A

BYDA Documents

ASSETS AFFECTED

This information is only valid for 28 days from the date of issue

Please note that there are **Gas Mains or Services** in the vicinity of your intended work, as generally illustrated on the attached map. There may also be other mains or services at the location. For an explanation of the map, please see the legend attachment and read the important information below.

Please note that you have duty of care to ensure that Jemena's assets are not compromised or damaged during any digging, future development or construction work.

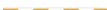
Excavation Guidelines:

It is essential that the location of gas pipe/s are confirmed by carefully pot-holing by hand excavation prior to proceeding with mechanical excavation in the vicinity of gas pipes. If you cannot locate the pipe, contact the local depot.

Important Information:

1. The enclosed plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "Jemena") and show the position of Jemena's underground gas mains and installations in public gazetted roads. If the enclosed plans show gas assets located on private property or other third party property, these are approximate locations.
2. There may be underground assets owned by other utilities in the vicinity of your work and it is your responsibility to identify and locate such assets.
3. The plans may show the position of underground mains and installations relative to fences, buildings and other structures, as they existed at the time the assets were installed and may not have been updated to take account of any subsequent change in the location or style of those features. Depth of underground assets may also vary as a result of changes to road, footpath or surface levels subsequent to installation.
4. While Jemena takes all reasonable care to ensure the accuracy and completeness of the information provided, it makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error or omission. It is intended to be indicative only and must not be solely relied upon when undertaking underground works.
5. Except to the extent that liability may not be capable of being lawfully excluded, Jemena, its employees, agents, officers and contractors will not be liable to any person for loss or damage (including indirect and consequential loss or damage) which may be suffered or incurred in connection with the provision of this information.
6. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains, service lines and equipment. In accordance with the *Work Near Underground Assets – Guide* published in 2007 by Work Cover Authority*, Jemena recommends that you carry out potholing by hand to accurately confirm the location of gas mains and installation prior to commencing excavations.

Network Mains

	Proposed New Main (coloured as per kPa)		
	Proposed Isolate (coloured as per kPa)		
	Unknown kPa		
	2kPa Low Pressure gas main		
	7kPa Low Pressure gas main		
	30kPa Medium pressure gas main		
	100kPa Medium Pressure gas main		
	210kPa Medium Pressure gas main		
	300kPa Medium Pressure gas main		
	400kPa Medium Pressure gas main		
	1050kPa High Pressure gas main		
	3500kPa High Pressure gas main		
	7000kPa High Pressure gas main		
	>7000kPa Transmission pipeline		
	Isolated Service - Former Med/High Pressure		
	Isolated Steel Main - Treat as High Pressure		
	Conduit or Casing		
100 PVC	Size & Material (see conduit material codes)		
	Critical Main - Treat as High Pressure (Main coloured as per kPa)		
	Exposed Main section		
	Shallow Main section: see Protection Code below, no code assume no protection		
SP	Steel Plate	CE	Concrete Encased
PP	PE Plate	UNK	Unknown Type
CS	Concrete Slab		
	Warning - Blue Jacket Coated gas main (Main coloured and styled as per kPa)		

Gas Services

	Gas service – coloured by kPa
	Serviced Site indicator

Jemena has created service pipe features programmatically based on known pipe characteristics and cartographic principles. They may provide guidance to identify assets whilst in the field in addition to existing processes.

Network Assets

	Siphon
	Network Valve
	High Pressure Main Line Valve (>=1050kPa)
	High Pressure Automatic Line Break Valve (>1050kPa)
	Boundary Regulator Set (=<1050kPa)
	Distribution Regulator Set (=<1050kPa)
	High Pressure Regulating Station (>1050kPa)

Annotations

Pipe and Conduit Material Codes

NY	Nylon	NB	Nominal Bore – Cast Iron
PE	Polyethylene	ST	Steel
P/PL	Plastic (undefined)	C/CO	Copper
PVC	Polyvinyl Chloride		

Pipe code combinations and dimension references

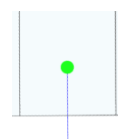
6NB 50MM NY	50mm Nylon main inserted into 6 inch (Nominal Bore) Cast Iron pipe
50MM 32MM NY	32mm Nylon main inserted into 50mm Steel pipe

~1.5 Distance (in metres) of main from Boundary Line (MBL)

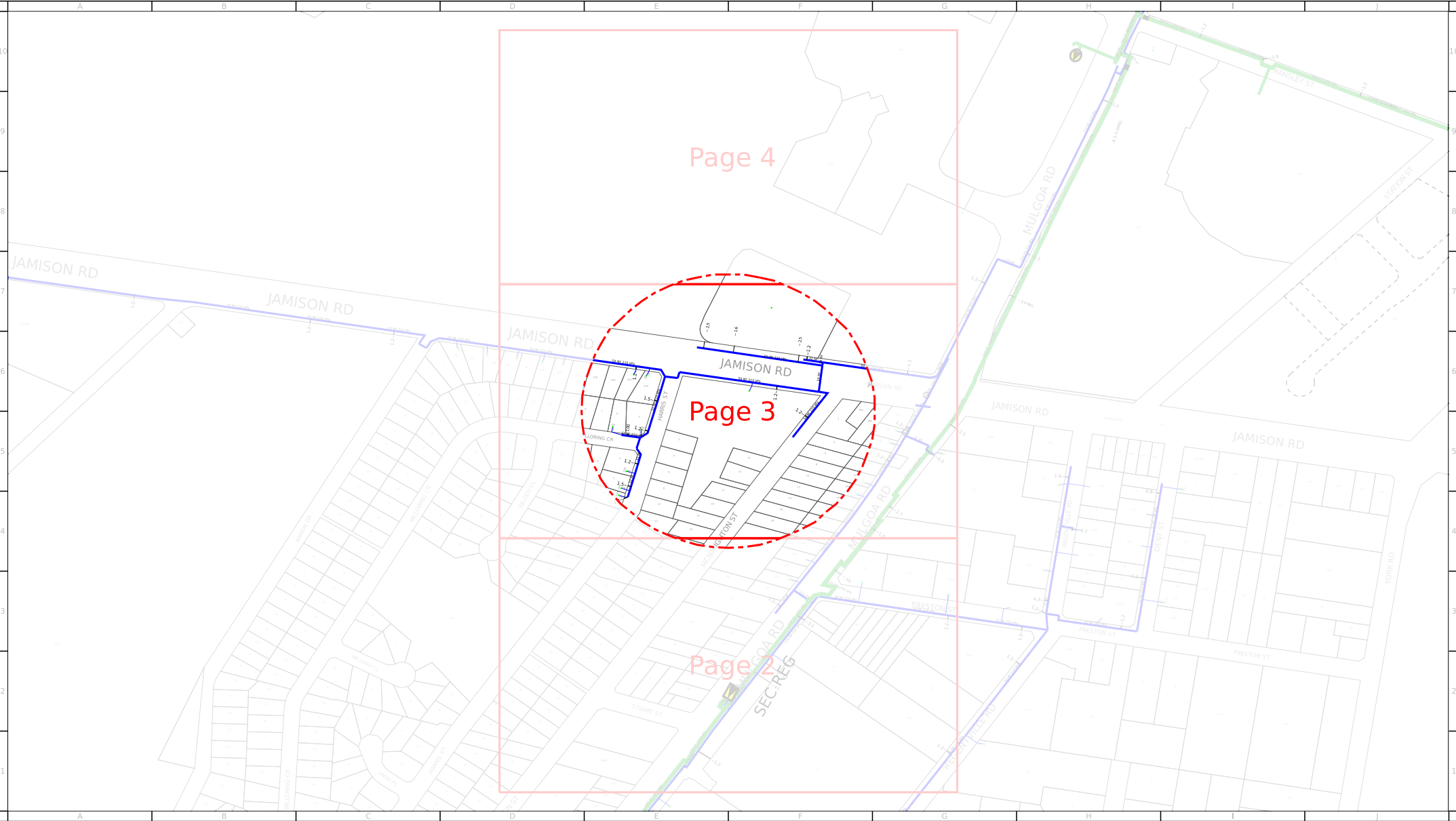
MBK	Distance in Metres Back of Kerb
MKL	Distance in Metres from Kerb Line
MEBL	Distance in Metres from Eastern Boundary Line (North/South/West)
MCL	Distance in Metres from Centre Line of Road
MFL	Distance in Metres from Fence Line



Distance (in metres) of service from side Boundary where the service pipe crosses from the road reserve into the private lot
Service placed towards left or right boundary
Service pipe size & material where known



For connected sites with insufficient asset details, service is shown down the centre of the lot with no attributes plotted

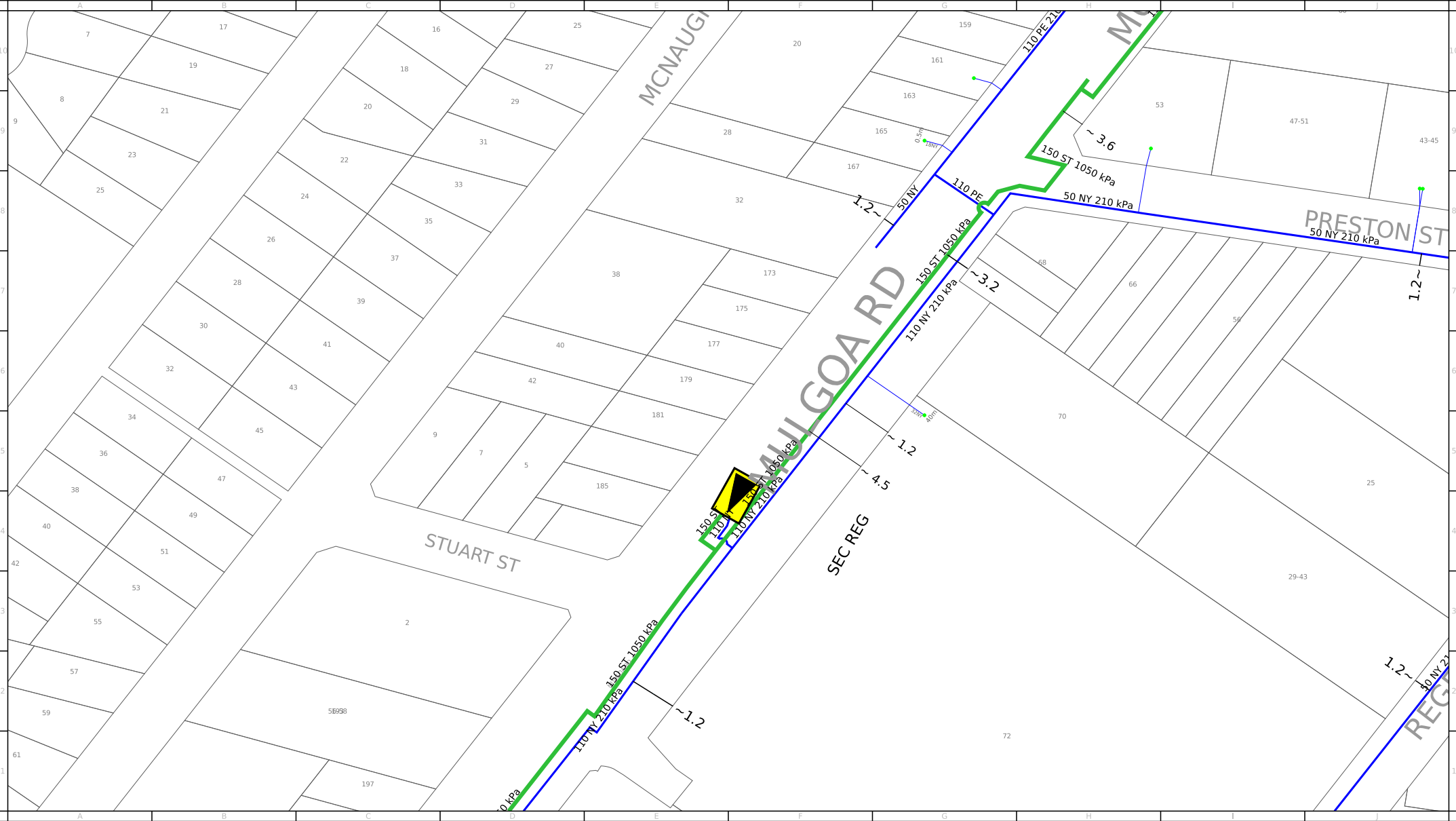


For legend details, please refer to the Coversheet attachment provided as part of this BYDA response.



Scale: 1:6301

Issue Date: 19/07/2024
BYDA Seq No: 242129120
BYDA Job No: 37167378
Overview Page:



For legend details, please refer to the Coversheet attachment provided as part of this BYDA response.

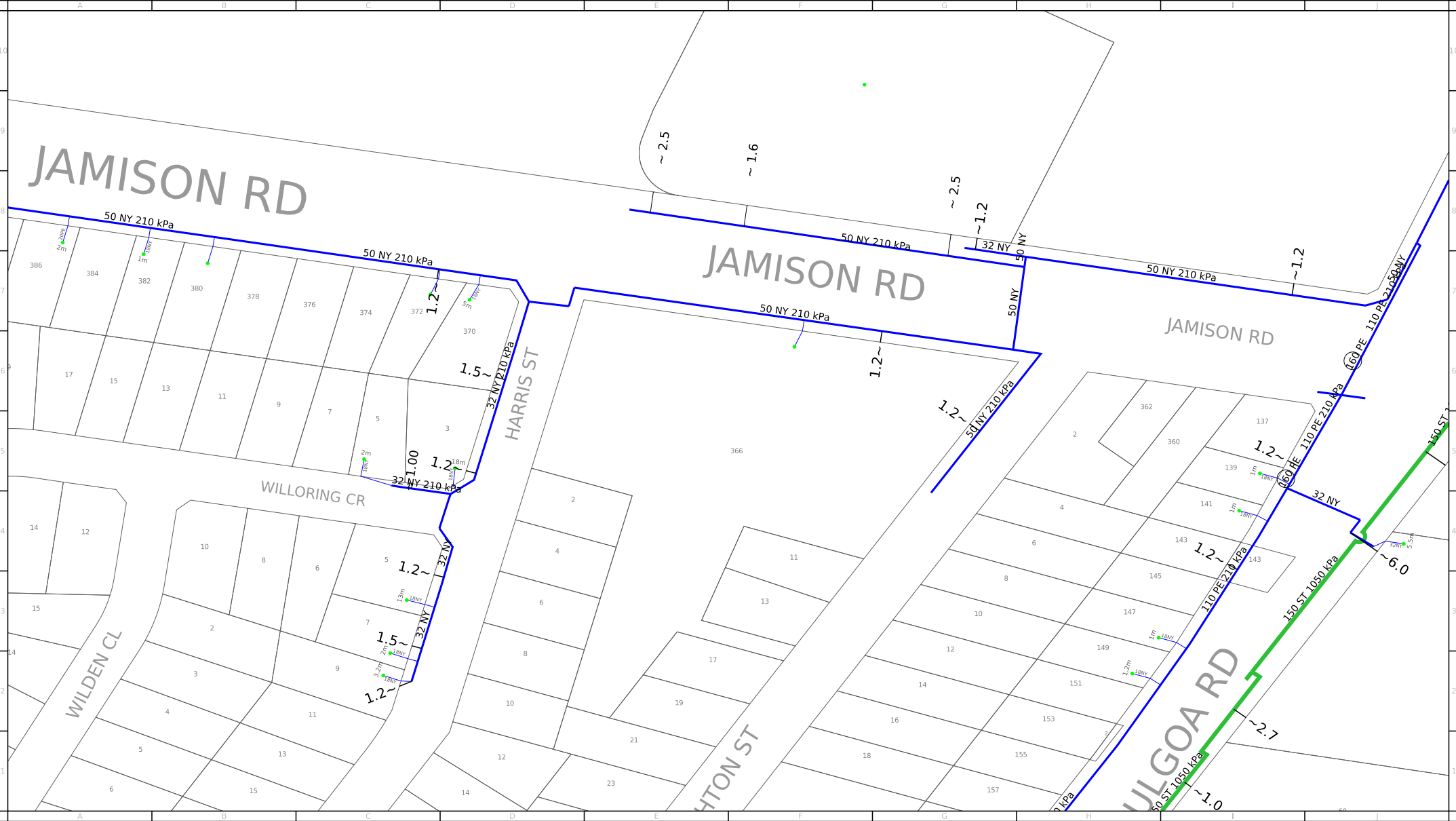


Scale: 1:2000

Issue Date: 19/07/2024
BYDA Seq No: 242129120
BYDA Job No: 37167378

0m 10m 20m 30m 40m 50m 60m 70m 80m

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagrammatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



For legend details, please refer to the Coversheet attachment provided as part of this BYDA response.



Scale: 1:2000

Issue Date: 19/07/2024
BYDA Seq No: 242129120
BYDA Job No: 37167378

0m 10m 20m 30m 40m 50m 60m 70m 80m

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagrammatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



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Scale: 1:2000

Issue Date:

19/07/2024

BYDA Seq No:

242129120

BYDA Job No:

37167378

0m 10m 20m 30m 40m 50m 60m 70m80m

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagrammatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.

BYDA Underground Search Report

Date: 19/07/2024

BYDA Sequence No: 242129117

BYDA Job No: 37167378

ENDEAVOUR ENERGY ASSETS AFFECTED

To:	ADP Consulting	Company:	ADP Consulting
Address:	Level 3,8 Spring Street, Sydney, NSW 2000		
Cust. ID:	3171409	Email:	80k57xd4vej1ax.ln5gc96hq0uh24@smarterwx-mail.byda.com.au
Phone:	+61282035447		
Enquiry Location: 366 Jamison Road, Jamisontown, NSW 2750			

Our Search has shown that **UNDERGROUND ASSETS ARE PRESENT** on our plans within the nominated enquiry location. This search is based on the graphical position of the excavation site as denoted in the BYDA customer confirmation sheet.

WARNING

- **All electrical apparatus shall be regarded as live until proved de-energised.** Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty **(20)** working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing excavation.
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice

SUPPLEMENTARY MATERIAL

Material	Purpose	Location
BYD Cover Letter	Endeavour Energy BYD response Cover Letter	Attached
BYD Important Information & Disclaimer	Endeavour Energy disclaimer, responsibilities and information on understanding plans	Attached
BYD Response Plans	Endeavour Energy BYD plans	Attached
Work Cover NSW "Work near underground assets: Guide"	Guideline for anyone involved in construction work near underground assets	Contact Work Cover NSW for a copy
Work Cover NSW "Excavation work: Code of practice"	Practical guidance on managing health and safety risks associated with excavation	URL [Click Here]
Safe Work Australia "Working in the vicinity of overhead and underground electric lines guidance material"	Provides information on how to manage risks when working in the vicinity of overhead and underground electric lines at a workplace	URL [Click Here]
Endeavour Energy Safety Brochures & Guides	To raise awareness of dangers of working on or near Endeavour Energy's assets	URL [Click Here]

**BEFORE COMMENCING EXCAVATION YOU MUST READ AND UNDERSTAND ALL INFORMATION
PROVIDED IN THE BYDA RESPONSE AND LISTED BELOW**

BACKGROUND

Endeavour Energy is able to make available plans of its underground assets to persons who intend to undertake excavation works in Endeavour Energy's distribution area. Any plans provided to you are made available subject to the provisions set out below, in the provided plans, and in the Endeavour Energy BYDA response Cover Letter.

We have set out below important information regarding the recommended procedures that should be followed when using this service and also the extent of our responsibility in respect of any plans provided. It is very important that you read and understand all the information and disclaimers provided below before excavating.

Information Provided by Endeavour Energy:

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channeled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

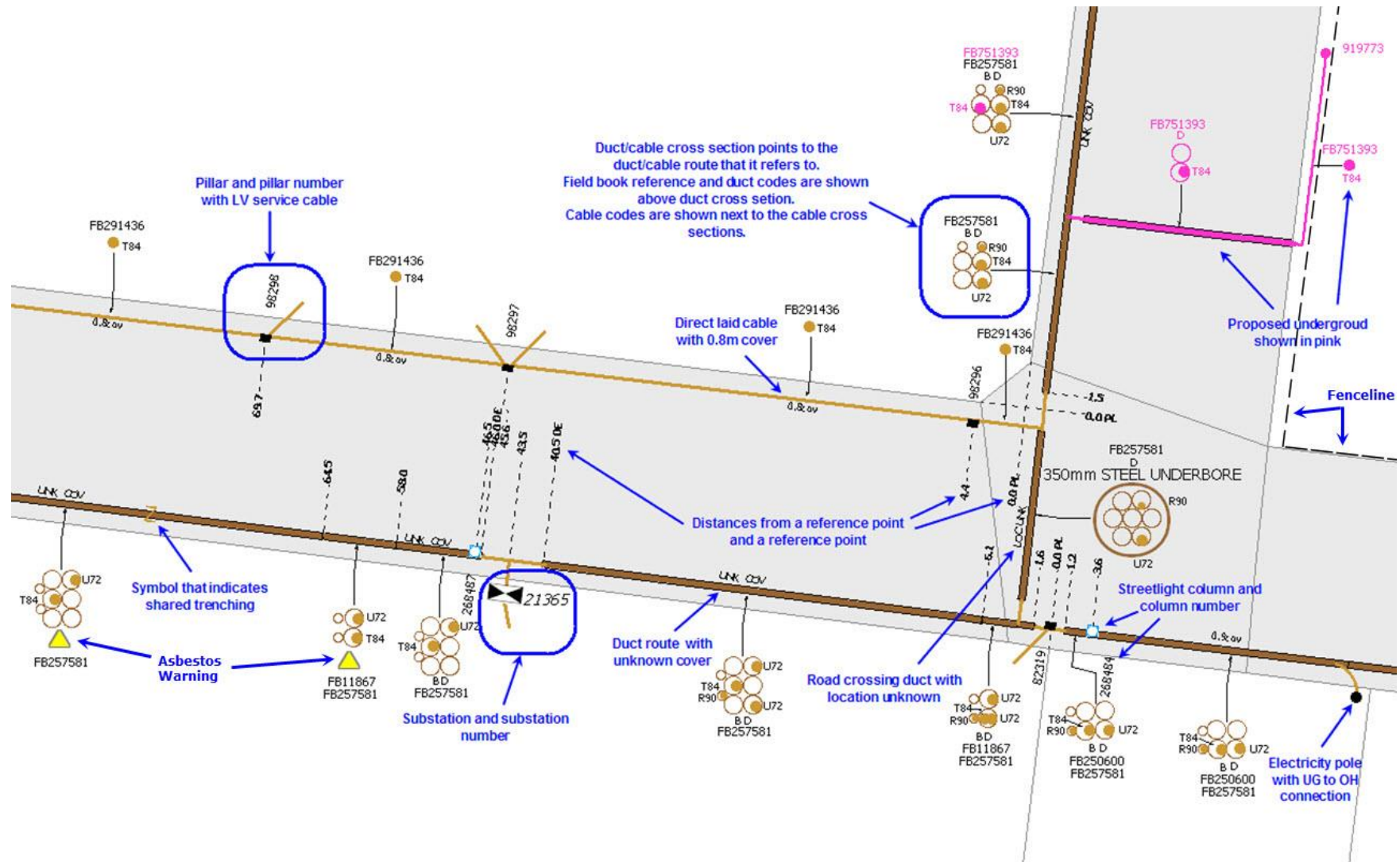
Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

CUSTOMER REQUESTS AND RESPONSIBILITIES

- Endeavour Energy expects to be able to provide relevant plans within 48 hours after a request is made.
- If the enquiry falls within the Transmission Mains area, additional notification requirements shall be complied with as per the instructions in the response Cover Letter.
- Endeavour Energy retains copyright over all plans and details provided in response to a customer's request.
- Persons excavating are expected to exercise all due care in the vicinity where underground assets are indicated and will be held responsible for any damage to any underground assets (including any Endeavour Energy property) or any other loss caused (including consequential losses) as a result of such excavations.
- All underground assets should be visually located by soft digging (pot holing) or hand digging.
- A person who undertakes excavation work is subject to duties and responsibilities under the [Work Health and Safety Act 2011](#) and [Work Health and Safety Regulation 2011](#). Please refer to the Work Cover NSW "Work near underground assets: Guide" and "Excavation work: Code of practice" which contain practical advice for working near underground utility services.
- Any damage to Endeavour Energy's assets must be immediately reported on **131 003**.
- In all cases of electric shock or suspected electric shock the victim shall immediately be transported to hospital or medical centre for treatment.
- If conduit material cannot be identified, it should be assumed to contain asbestos material.
- Endeavour Energy plans are frequently updated to record changes to underground assets. All plans are valid for **20** working days from the date of issue.

If further clarification is required, please contact:
Endeavour Energy
Phone: (02) 9853 4161 (8:00am-4:30pm Mon-Fri)
Emergency Phone Number: 131 003

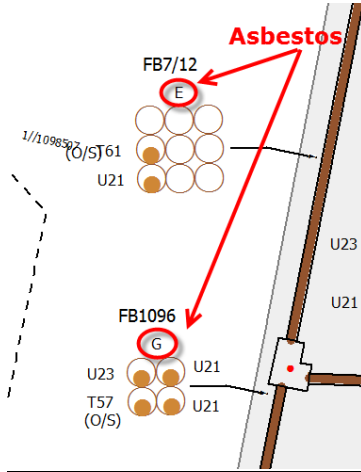
EXAMPLE OF HOW TO READ ENDEAVOUR ENERGY PLANS



If further clarification is required, please contact:
 Endeavour Energy
 Phone: (02) 9853 4161 (8:00am-4:30pm Mon-Fri)
Emergency Phone Number: 131 003

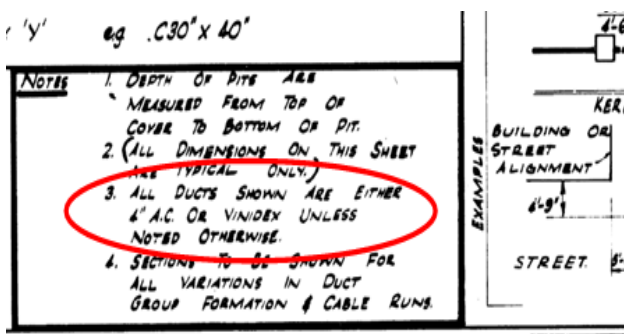
IDENTIFYING ASBESTOS DUCTS

1. Duct codes **E, F** and **G** identify Fibro Conduits

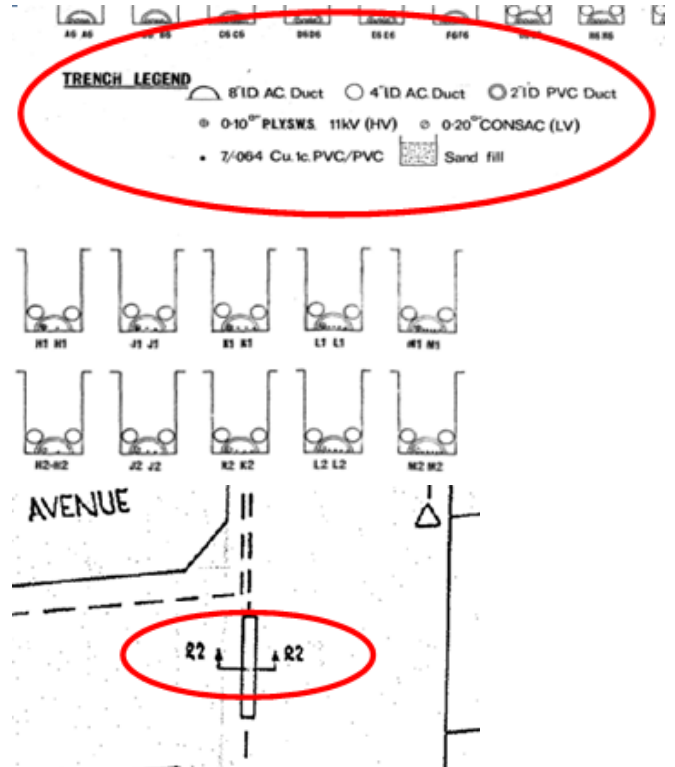


If underground details have not been captured and drawings are used, the method for identifying asbestos ducts and standards are different for the different utilities that amalgamated with Endeavour Energy. Using Reticulation Drawings, there are numerous ways to determine if a duct route has asbestos ducts, refer to following examples:

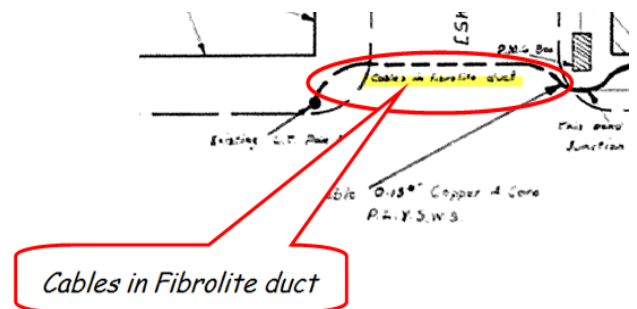
3. **AC** (Asbestos Cement) acronym



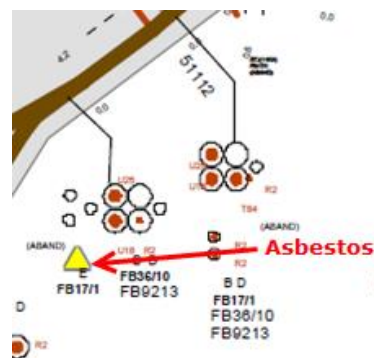
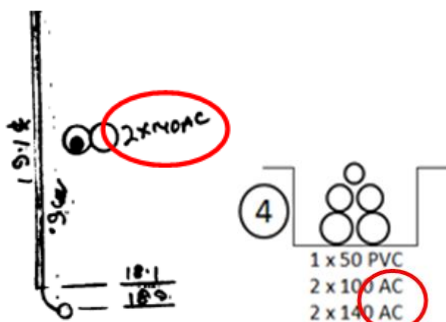
2. The duct codes **G,H,J,K,L,M Q,R,S,T,U,V,W & X** under each configuration are used on old Blue Mountains drawings to identify Asbestos



4. **Fibrolite** (asbestos) ducts



5. Yellow **triangle** identifies Fibro Conduits

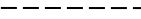
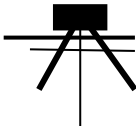


If further clarification is required, please contact:
 Endeavour Energy
 Phone: (02) 9853 4161 (8:00am-4:30pm Mon-Fri)
Emergency Phone Number: 131 003

STANDARD UNDERGROUND SYMBOLS / LABELS

NOTE: If symbology has not been provided on the plan use symbols as shown below.

SYMBOLS & ACRONYMS

 or 	Street light column
	Padmount substation
 or 	Overground pillar (O.G.Box)
	Underground pit
	Duct run
	Cable run
	Typical duct section
	Typical underbore section
	Blocked duct
	Cable section
	Asbestos warning
	STJ, PBJ, TTJ
STJ	Straight through joint
PBJ	Parallel branch joint
TTJ	Transition through joint
	Underground to overhead pole
SL	Streetlight conductor
SC	Service cable
SE	Cable sealed end
SF	Service Feeder
OS	Out of Service
O.A.M.	Over awning main
U.A.M.	Under awning main
N.I.S.	Not in service
	Fence/dimensioning
	Shared trenching
	Service point of attachment

DUCT CODE LABELS

B	= 50 mm PVC
D	= 125mm PVC
E	= 100mm Fibro Conduit (Asbestos)
F	= 140mm Fibro Conduit (Asbestos)
G	= 150mm Fibro Conduit (Asbestos)

DEPTH & LOCATION LABELS

0.5- 0.7 COV	= 0.5m – 0.7m
0.9 COV	= 0.9m Depth
UNK COV	= Depth Unknown
LOC UNK	= Location Unknown
0.9 PL	= Located 0.9m from Property Line

EXISTING EASEMENT DIAGRAM FOR SWITCHING STATION 22008

1000' WIDE EASEMENT FOR CABLES

NOTE
THE SWITCHING STATION EASEMENT IS TO BE COMPLETELY LEVEL

JANESVILLE ROAD

REPLACE EXISTING LANTERNS WITH 150W HPS

STORM WATER CANNAL

ORIGINAL SCALE = 1/200

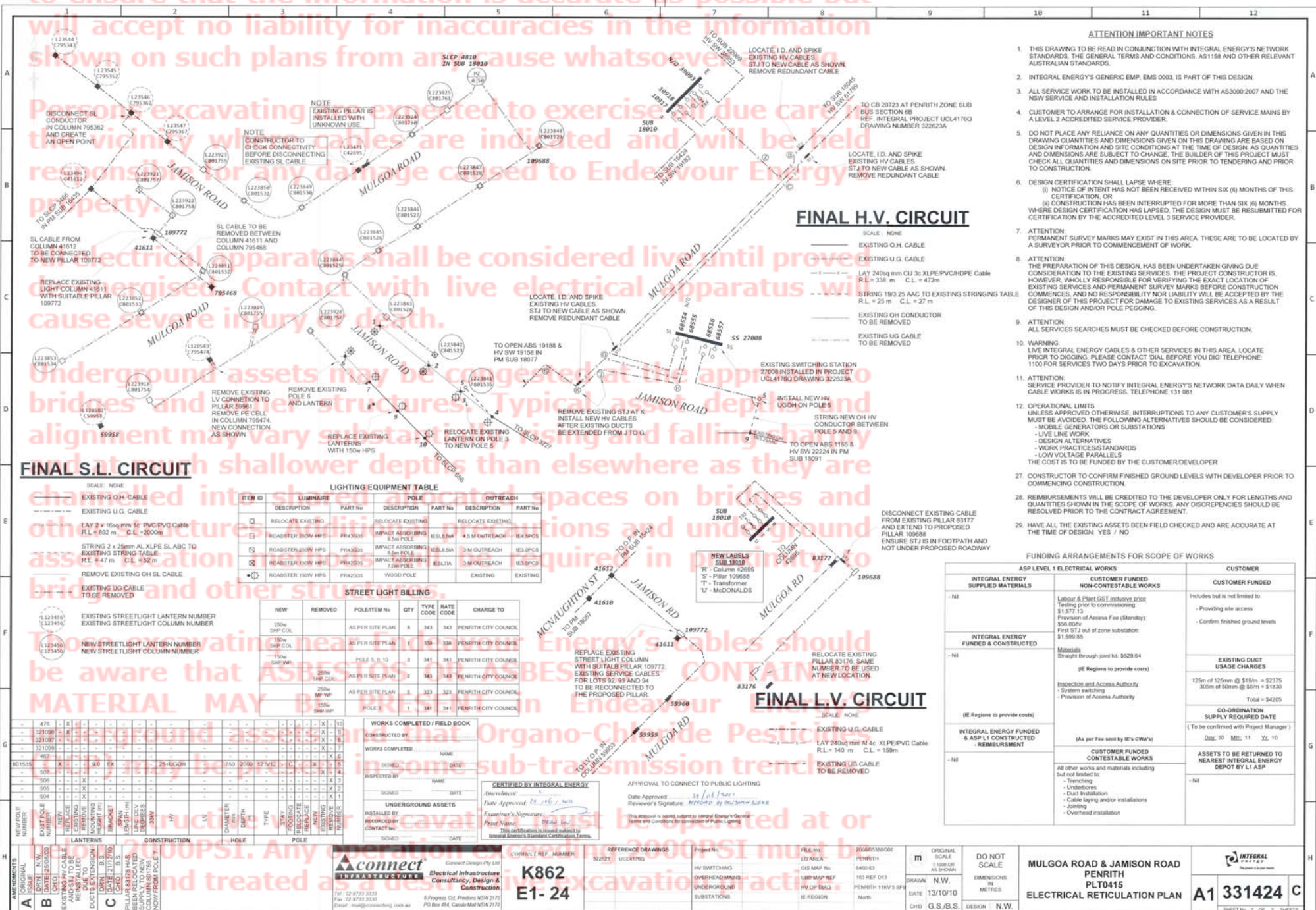
The certification of this project is supported by the following key documents:	
Document name	Revision Date
Environmental Impact Assessment (EIA) - FAT 0038 part of EIS 0003	29/07/2010
Environmental Impact Assessment (EIA) - FAT 0038 part of EIS 0003	29/07/2010

STATION & REF. NUMBER	REFERENCE DRAWINGS	Project No.	F&E No.	2008
322523	UCL41780		L22 AR 4	PERM

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---



CERT-1105194/1



ATTENTION IMPORTANT NOTES

- 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH INTEGRAL ENERGY'S NETWORK STANDARDS, THE GENERAL TERMS AND CONDITIONS, AS1158 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- 2. INTEGRAL ENERGY'S GENERIC EMP. EMS 0003, IS PART OF THIS DESIGN.
- 3. ALL SERVICE WORK TO BE INSTALLED IN ACCORDANCE WITH AS3000:2007 AND THE NSW SERVICE AND INSTALLATION RULES.
- 4. CUSTOMER TO ARRANGE FOR INSTALLATION & CONNECTION OF SERVICE MAINS BY A LEVEL 2 ACCREDITED SERVICE PROVIDER.
- 5. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON 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 SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
- 6. DESIGN CERTIFICATION SHALL LAPSE WHERE:
 - (i) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN SIX (6) MONTHS OF THIS CERTIFICATION, OR
 - (ii) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN SIX (6) MONTHS. WHERE DESIGN CERTIFICATION HAS LAPSED, THE DESIGN MUST BE RESUBMITTED FOR CERTIFICATION BY THE ACCREDITED LEVEL 3 SERVICE PROVIDER.
- 7. ATTENTION: PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO COMMENCEMENT OF WORK.
- 8. ATTENTION: THE PREPARATION OF THIS DESIGN, HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES. AND NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGE TO EXISTING SERVICES AS A RESULT OF THIS DESIGN AND/OR POLE PEGGING.
- 9. ATTENTION: ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.
- 10. WARNING: LIVE INTEGRAL ENERGY CABLES & OTHER SERVICES IN THIS AREA. LOCATE PRIOR TO DIGGING. PLEASE CONTACT DIAL BEFORE YOU DIG TELEPHONE: 1100 FOR SERVICES TWO DAYS PRIOR TO EXCAVATION.
- 11. ATTENTION: SERVICE PROVIDER TO NOTIFY INTEGRAL ENERGY'S NETWORK DATA DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131 081
- 12. OPERATIONAL LIMITS: UNLESS APPROVED OTHERWISE, INTERRUPTIONS TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
 - LIVE LINE WORK
 - DESIGN ALTERNATIVES
 - WORK PRACTICES STANDARDS
 - LOW VOLTAGE PARALLELSTHE COST IS TO BE FUNDED BY THE CUSTOMER/DEVELOPER
- 27. CONSTRUCTOR TO CONFIRM FINISHED GROUND LEVELS WITH DEVELOPER PRIOR TO COMMENCING CONSTRUCTION.
- 28. REIMBURSEMENTS WILL BE CREDITED TO THE DEVELOPER ONLY FOR LENGTHS AND QUANTITIES SHOWN IN THE SCOPE OF WORKS. ANY DISCREPANCIES SHOULD BE RESOLVED PRIOR TO THE CONTRACT AGREEMENT.
- 29. HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN. YES / NO

FINAL S.L. CIRCUIT

SCALE: NONE

EXISTING O.H. CABLE

EXISTING U.G. CABLE

LAY 2 x 150mm AL XLPE PVC/HDPE Cable R.L. = 338m C.L. = 472m

STRING 2 x 25mm AL XLPE SL ABC TO EXISTING STRING TABLE R.L. = 47m C.L. = 52m

REMOVE EXISTING OH SL CABLE

EXISTING UG CABLE TO BE REMOVED

EXISTING STREETLIGHT LANTERN NUMBER

EXISTING STREETLIGHT COLUMN NUMBER

NEW STREETLIGHT LANTERN NUMBER

NEW STREETLIGHT COLUMN NUMBER

LIGHTING EQUIPMENT TABLE									
ITEM ID	LUMINAIRE	POLE	OUTREACH	DESCRIPTION	PART No	DESCRIPTION	PART No	DESCRIPTION	PART No
1	RELOCATE EXISTING	RELOCATE EXISTING	RELOCATE EXISTING	ROADSTER 250W HPS	PR43025	IMPACT ABSORBING 8.5m POLE	ESL8.5M	4.5 M OUTREACH	RL4.5PCS
2	ROADSTER 250W HPS	PR43025	IMPACT ABSORBING 8.5m POLE	ROADSTER 150W HPS	PR42034	IMPACT ABSORBING 7.5m POLE	ESL7.5M	3 M OUTREACH	RL3.0PCS
3	ROADSTER 150W HPS	PR42034	IMPACT ABSORBING 7.5m POLE	ROADSTER 150W HPS	PR42034	WOOD POLE	EXISTING	EXISTING	EXISTING

STREET LIGHT BILLING									
NEW	REMOVED	POLE/ITEM	QTY	TYPE CODE	RATE CODE	CHARGE TO			
250w SHP COL		AS PER SITE PLAN	8	343	343	PENRITH CITY COUNCIL			
150w SHP COL		AS PER SITE PLAN	1	338	338	PENRITH CITY COUNCIL			
250w SHP WIP		POLE 5, 8 & 10	3	341	341	PENRITH CITY COUNCIL			
250w SHP WIP		AS PER SITE PLAN	2	343	343	PENRITH CITY COUNCIL			
250w SHP WIP		AS PER SITE PLAN	5	323	323	PENRITH CITY COUNCIL			
150w SHP WIP		POLE 5	1	341	341	PENRITH CITY COUNCIL			

WORKS COMPLETED / FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNED: _____ DATE: _____

INSPECTED BY: _____

SIGNED: _____ DATE: _____

UNDERGROUND ASSETS

REMOVED BY: _____

CONTACT No: _____

SIGNED: _____ DATE: _____

CERTIFIED BY INTEGRAL ENERGY

Date Approved: 28/06/2023

Reviewed Signature: [Signature]

Examined Signature: [Signature]

Print Name: [Name]

Date: [Date]

This certificate is issued subject to Integral Energy's Standard Conditions of Service.

FINAL H.V. CIRCUIT

SCALE: NONE

EXISTING O.H. CABLE

EXISTING U.G. CABLE

LAY 240sq mm CU 3c XLPE/PVC/HDPE Cable R.L. = 338m C.L. = 472m

STRING 19/25 AAC TO EXISTING STRINGING TABLE R.L. = 25m C.L. = 27m

EXISTING OH CONDUCTOR TO BE REMOVED

EXISTING UG CABLE TO BE REMOVED

FINAL L.V. CIRCUIT

SCALE: NONE

EXISTING U.G. CABLE

LAY 240sq mm AL 4c XLPE/PVC Cable R.L. = 140m C.L. = 159m

EXISTING UG CABLE TO BE REMOVED

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS		
ASP LEVEL 1 ELECTRICAL WORKS	CUSTOMER FUNDED NON-CONTESTABLE WORKS	CUSTOMER FUNDED
- NI	Labour & Plant GST inclusive price Testing prior to commissioning \$1,577.13 Provision of Access Fee (Standby) \$56.00/hr First ST2 out of zone substation \$1,599.95	Includes but is not limited to: - Providing site access - Confirm finished ground levels
- NI	Materials Straight through post kit \$629.64 (IE Regions to provide costs)	EXISTING DUCT USAGE CHARGES 125m of 125mm @ \$19/m = \$2375 305m of 50mm @ \$6/m = \$1830 Total = \$4205
(IE Regions to provide costs)	Inspection and Access Authority System switching Provision of Access Authority	CO-ORDINATION SUPPLY REQUIRED DATE (To be confirmed with Project Manager) Day 30 Mth 11 Yr 10
INTEGRAL ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSEMENT	(As per Fee sent by IE's CWA's)	ASSETS TO BE RETURNED TO NEAREST INTEGRAL ENERGY DEPOT BY L1 ASP
- NI	CUSTOMER FUNDED CONTESTABLE WORKS All other works and materials including but not limited to: - Trenching - Underpasses - Duct Installation - Cable laying and/or installations - Joining - Overhead installation	- NI

AMENDMENTS

NO	DATE	BY	DESCRIPTION
1	2023/07/19	...	...

connect

Electrical Infrastructure Consultancy, Design & Construction

Tel: 02 9753 3333 Fax: 02 9753 3330 Email: mail@connectng.com.au

4 Progress Ct, Prestons NSW 2170 PO Box 604, Canada Mail NSW 2170

K862 E1-24

Project No: 320221 UCL47960

Project Name: HV SWITCHING OVERHEAD MAINS UNDERGROUND HV OP DRAG

Project Location: BE REGION

Project Manager: [Name]

Project Engineer: [Name]

Project Designer: [Name]

Project Checker: [Name]

Project Approver: [Name]

Project Date: 13/10/10

Project Scale: 1:1000 OR AS SHOWN

Project Drawing: N.W.

Project Date: 13/10/10

Project Scale: 1:1000 OR AS SHOWN

Project Drawing: N.W.

MULGOA ROAD & JAMISON ROAD

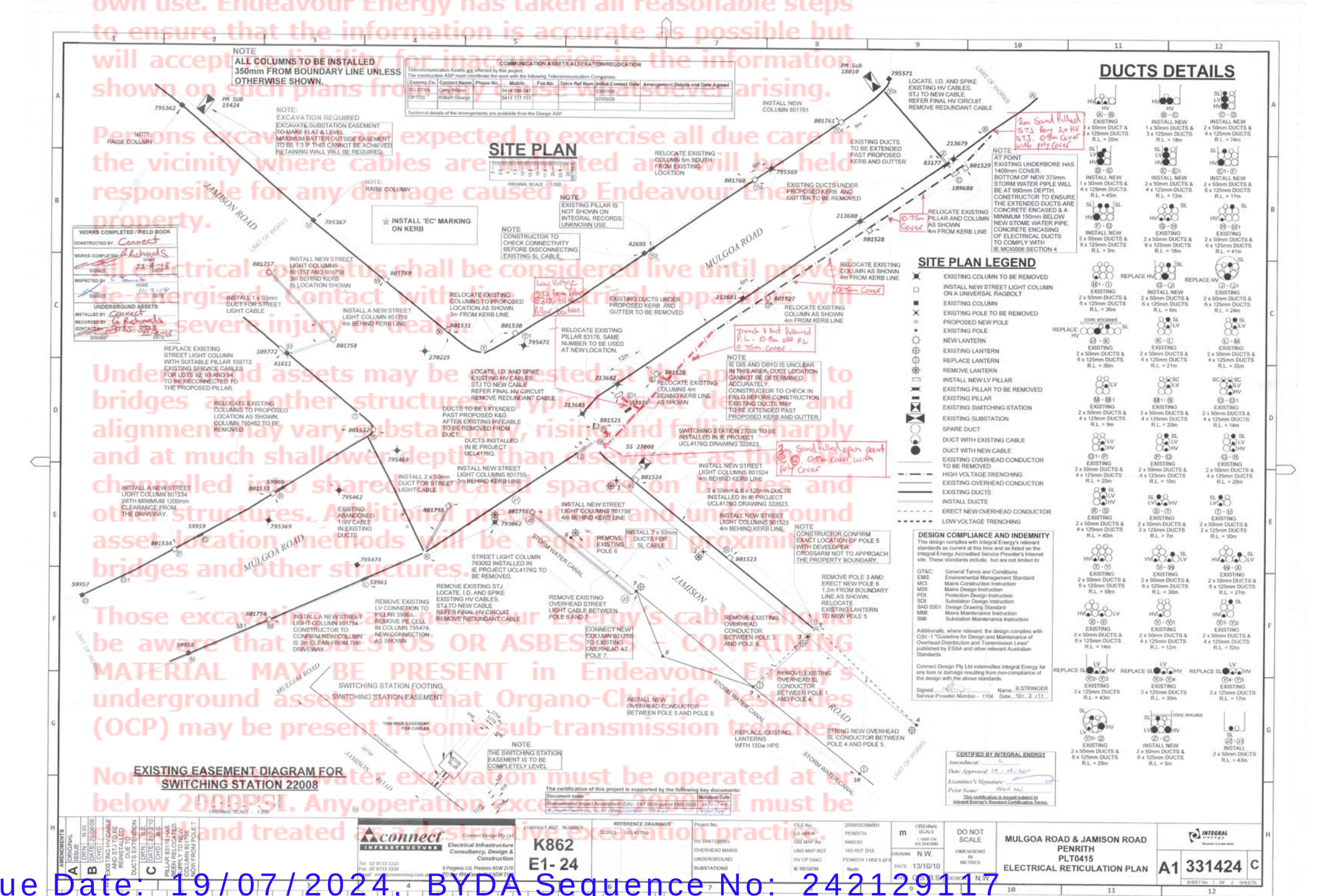
PENRITH

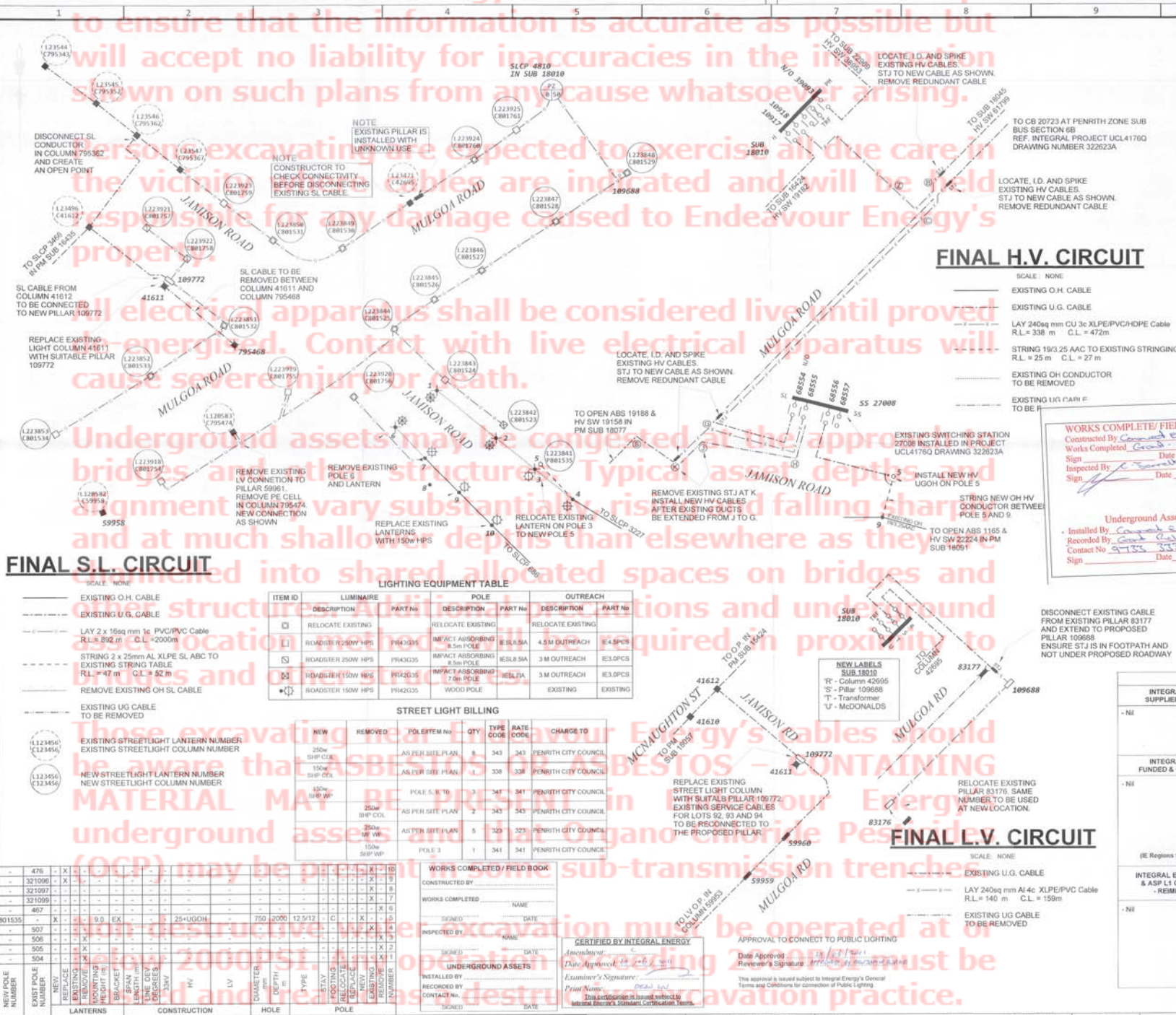
PLT0415

ELECTRICAL RETICULATION PLAN

A1 331424 C

SHEET No. 2 OF 2 SHEETS





- ATTENTION IMPORTANT NOTES**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH INTEGRAL ENERGY'S NETWORK STANDARDS, THE GENERAL TERMS AND CONDITIONS, AS1158 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
 - INTEGRAL ENERGY'S GENERIC EMP, EMS 0003, IS PART OF THIS DESIGN.
 - ALL SERVICE WORK TO BE INSTALLED IN ACCORDANCE WITH AS3000:2007 AND THE NSW SERVICE AND INSTALLATION RULES.
 - CUSTOMER TO ARRANGE FOR INSTALLATION & CONNECTION OF SERVICE MAINS BY A LEVEL 2 ACCREDITED SERVICE PROVIDER.
 - DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON 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 SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
 - DESIGN CERTIFICATION SHALL LAPSE WHERE:
(i) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN SIX (6) MONTHS OF THIS CERTIFICATION, OR
(ii) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN SIX (6) MONTHS. WHERE DESIGN CERTIFICATION HAS LAPSED, THE DESIGN MUST BE RESUBMITTED FOR CERTIFICATION BY THE ACCREDITED LEVEL 3 SERVICE PROVIDER.
 - ATTENTION: PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO COMMENCEMENT OF WORK.
 - ATTENTION: THE PREPARATION OF THIS DESIGN, HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES, AND NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGE TO EXISTING SERVICES AS A RESULT OF THIS DESIGN AND/OR POLE PEGGING.
 - ATTENTION: ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.
 - INTEGRAL ENERGY CABLES & OTHER SERVICES IN THIS AREA. LOCATE TO DIGGING. PLEASE CONTACT DIAL BEFORE YOU DIG TELEPHONE OR SERVICES TWO DAYS PRIOR TO EXCAVATION.
 - CONTRACT PROVIDER TO NOTIFY INTEGRAL ENERGY'S NETWORK DATA DAILY WHEN WORKS ARE IN PROGRESS. TELEPHONE 131 081
 - ADDITIONAL LIMITS: IS APPROVED OTHERWISE, INTERRUPTIONS TO ANY CUSTOMER'S SUPPLY BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
BIBLE GENERATORS OR SUBSTATIONS
E LINE WORK
SIGN ALTERNATIVES
PRACTICES/STANDARDS
V VOLTAGE PARALLELS
ST IS TO BE FUNDED BY THE CUSTOMER/DEVELOPER
CONTRACTOR TO CONFIRM FINISHED GROUND LEVELS WITH DEVELOPER PRIOR TO COMMENCING CONSTRUCTION.
 - REIMBURSEMENTS WILL BE CREDITED TO THE DEVELOPER ONLY FOR LENGTHS AND QUANTITIES SHOWN IN THE SCOPE OF WORKS. ANY DISCREPANCIES SHOULD BE RESOLVED PRIOR TO THE CONTRACT AGREEMENT.
 - HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN. YES / NO

WORKS COMPLETE / FIELD BOOK

Constructed By: *Grant Richards*
Works Completed: *Grant Richards*
Sign: *Grant Richards* Date: *11/02/24*
Inspected By: *Grant Richards* Date: *11/02/24*

Installed By: *Grant Richards*
Recorded By: *Grant Richards*
Contact No: *9133 3333*
Sign: *Grant Richards* Date: *11/02/24*

FINAL S.L. CIRCUIT

- SCALE: NONE
- EXISTING O.H. CABLE
 - EXISTING U.G. CABLE
 - LAY 2 x 16sq mm 1c PVC/PVC Cable R.L. = 892 m C.L. = 2000m
 - STRING 2 x 25mm AL XLPE SL ABC TO EXISTING STRING TABLE R.L. = 47 m C.L. = 52 m
 - REMOVE EXISTING O.H. SL CABLE
 - EXISTING UG CABLE TO BE REMOVED
 - EXISTING STREETLIGHT LANTERN NUMBER
 - EXISTING STREETLIGHT COLUMN NUMBER
 - NEW STREETLIGHT LANTERN NUMBER
 - NEW STREETLIGHT COLUMN NUMBER

LIGHTING EQUIPMENT TABLE

ITEM ID	LUMINAIRE	POLE	OUTREACH
1	ROADSTER 250W HPS	FR43Q35	RELOCATE EXISTING
2	ROADSTER 250W HPS	FR43Q35	RELOCATE EXISTING
3	ROADSTER 150W HPS	FR42Q35	EXISTING
4	ROADSTER 150W HPS	FR42Q35	EXISTING

STREET LIGHT BILLING

NEW	REMOVED	POLYMER No.	QTY	TYPE CODE	RATE	CHARGE TO
250w SHP COL	AS PER BILL PLAN	8	343	343		PENRITH CITY COUNCIL
150w SHP COL	AS PER BILL PLAN	4	338	338		PENRITH CITY COUNCIL
40w SHP COL	POLE 5, 10, 16	3	341	341		PENRITH CITY COUNCIL
250w SHP COL	AS PER BILL PLAN	2	343	343		PENRITH CITY COUNCIL
250w SHP COL	AS PER BILL PLAN	5	323	323		PENRITH CITY COUNCIL
150w SHP COL	POLE 3	1	341	341		PENRITH CITY COUNCIL

WORKS COMPLETED / FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNED: _____ DATE: _____

INSPECTED BY: _____

SIGNED: _____ DATE: _____

INSTALLED BY: _____

RECORDED BY: _____

CONTACT NAME: _____

CERTIFIED BY INTEGRAL ENERGY

Amendment: _____

Date Approved: *11/02/24*

Examiner's Signature: *Grant Richards*

Print Name: *Grant Richards*

This certification is issued subject to Integral Energy's General Terms and Conditions for contractors of Public Lighting

FINAL H.V. CIRCUIT

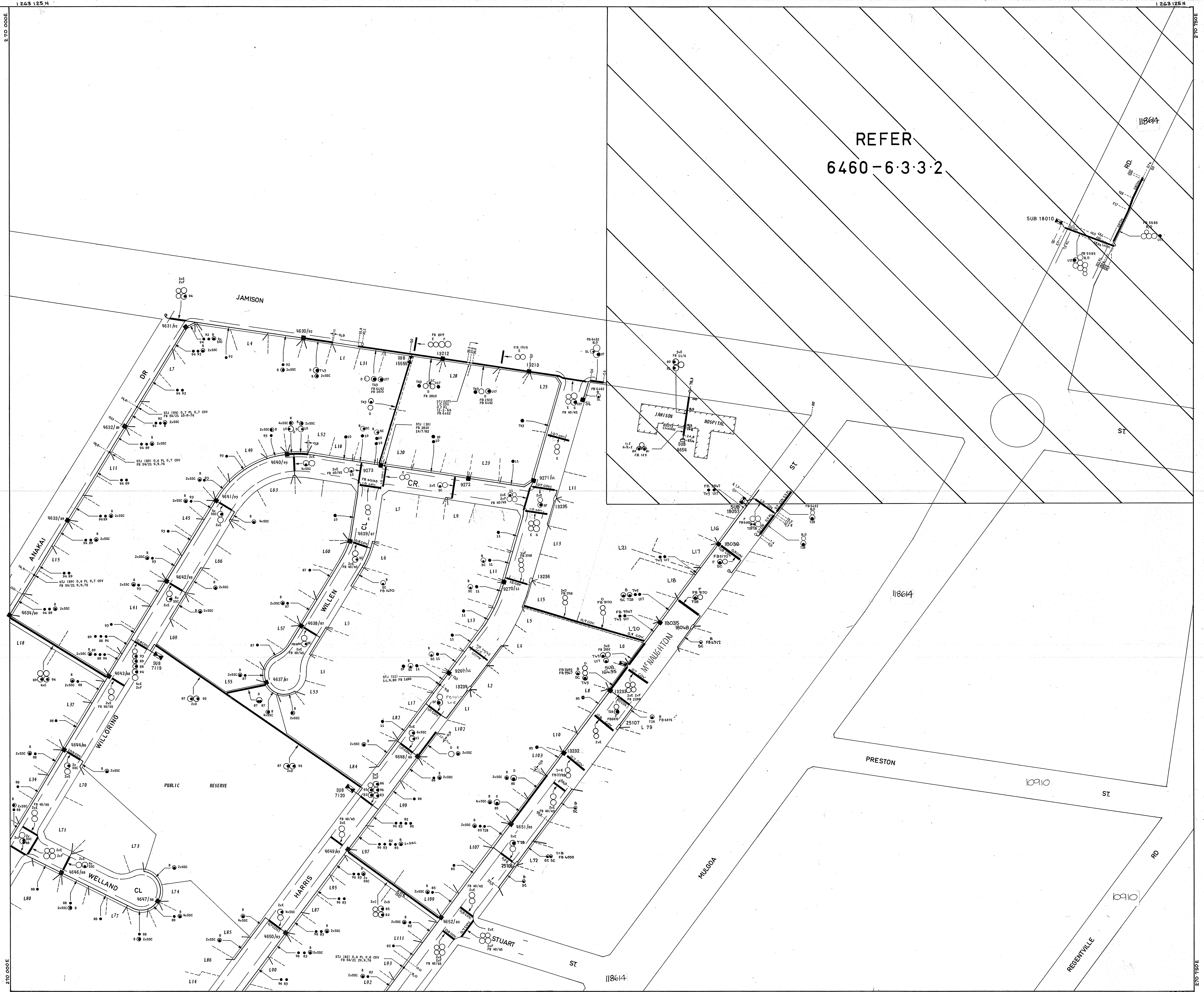
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 - EXISTING U.G. CABLE
 - LAY 240sq mm CU 3c XLPE/PVC/Hdpe Cable R.L. = 338 m C.L. = 472m
 - STRING 19/25 AAC TO EXISTING STRINGING TABLE R.L. = 25 m C.L. = 27 m
 - EXISTING OH CONDUCTOR TO BE REMOVED
 - EXISTING UG CABLE TO BE REMOVED

FINAL L.V. CIRCUIT

- SCALE: NONE
- EXISTING U.G. CABLE
 - LAY 240sq mm AL 4c XLPE/PVC Cable R.L. = 140 m C.L. = 159m
 - EXISTING UG CABLE TO BE REMOVED

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS	CUSTOMER FUNDED NON-CONTESTABLE WORKS	CUSTOMER FUNDED
INTEGRAL ENERGY SUPPLIED MATERIALS	Labour & Plant GST inclusive price Testing prior to commissioning \$1,577.13 Provision of Access Fee (Standby) \$56.00/hr First STJ out of zone substation \$1,599.85	Includes but is not limited to: - Providing site access - Confirm finished ground levels
INTEGRAL ENERGY FUNDED & CONSTRUCTED	Materials Straight through joint kit \$629.64 (IE Regions to provide costs) Inspection and Access Authority - System switching - Provision of Access Authority Total = \$4205	EXISTING DUCT USAGE CHARGES 125m of 125mm @ \$11/m = \$2375 305m of 50mm @ \$6/m = \$1830 CO-ORDINATION SUPPLY REQUIRED DATE (To be confirmed with Project Manager) Day: 30 Mon 11 Yr: 10
INTEGRAL ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSEMENT	(As per Fee sent by IE's CWA's) CUSTOMER FUNDED CONTESTABLE WORKS All other works and materials including but not limited to: - Trenching - Underdures - Duct Installation - Cable laying and/or installations - Joining - Overhead installation	ASSETS TO BE RETURNED TO NEAREST INTEGRAL ENERGY DEPOT BY L1 ASP - Nil



ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid, and has been prepared solely for Endeavour Energy's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's property.

All electrical apparatus shall be considered live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.

Underground assets may be congested at the approach to bridges and other structures. Critical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.

Those excavating near Endeavour Energy's cables should be aware that ASBESTOS OR ASBESTOS - CONTAINING MATERIAL MAY BE PRESENT in Endeavour Energy's underground assets and that Organochloride Pesticides (OCP) may be present in some sub-transmission trenches.

Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice.

CABLE SCHEDULE									
CODE	CABLE NO.	TYPE	FB	CODE	CABLE NO.	TYPE	FB	CODE	CABLE NO.
80	1280	0.225 11 kV SA	11/14	89	4793	2 XLPE	54/21	U17	2400 11 kV AL PLYSWS
81	1281	0.3 LV SA	11/14	90	4794	2 XLPE ALSA	54/21	T29	185 LV AC AL XLPE
82	4792	2 XLPE	54/21	95	4795	2 XLPE	54/21	T30	50 LV CU 4C PVC/PVC
83	4793	2 XLPE 54/21	54/21	96	4796	2 XLPE ALSA	54/21	T31	50 LV CU 4C PVC/PVC
84	4794	2 XLPE 54/21	54/21	97	4797	2 XLPE	54/21	T32	185 XLPE
85	4795	2 XLPE 54/21	54/21	98	4798	2 XLPE	54/21	T33	185 XLPE
86	4796	2 XLPE	54/21	99	4799	2 XLPE	54/21	T34	185 XLPE
87	4797	2 XLPE	54/21	100	4800	2 XLPE	54/21	T35	185 XLPE
88	4798	2 XLPE	54/21	101	4801	2 XLPE	54/21	T36	185 XLPE
89	4799	2 XLPE	54/21	102	4802	2 XLPE	54/21	T37	185 XLPE
90	4800	2 XLPE	54/21	103	4803	2 XLPE	54/21	T38	185 XLPE

NOTES:

- ALL CABLES ARE 0.6 FROM PROPERTY LINE AND ARE AT 0.5 COVER UNLESS OTHERWISE SHOWN
- ALL ROAD CROSSING DUCTS ARE FROM KERB TO KERB UNLESS OTHERWISE SHOWN
- LENGTHS IN METRES

NO.	REVISION	BY	DATE	NO.	REVISION	BY	DATE
A	FB'S 54/21 & 54/21 ADDED	DE	10/7/24	F	MC NAUGHTON ST FB 54/21	DE	10/7/24
B	FB 125 ADDED	DE	10/7/24	G	FB 125 ADDED	DE	10/7/24
C	FB 2652 ADDED	DE	10/7/24	H	FB 5512 ADDED	DE	10/7/24
D	FB 2745 ADDED	DE	10/7/24	I	FB 5555 ADDED	DE	10/7/24
E	FB 2810 JAMISON RD	DE	10/7/24	J	FB 5452 ADDED	DE	10/7/24

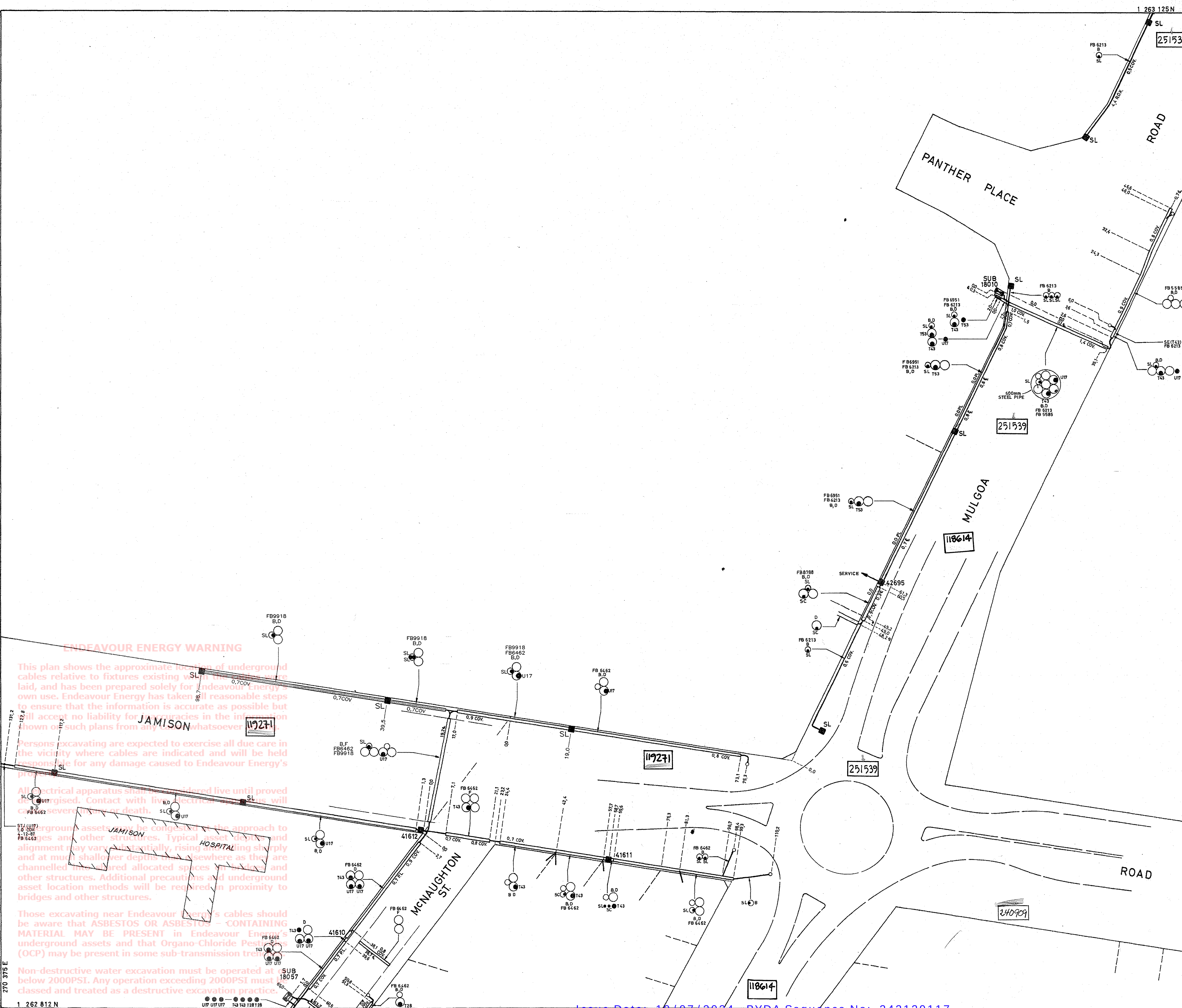
PROSPECT COUNTY COUNCIL

U.G. RETICULATION

JAMISON

DRAWN	ALW	SCALE	1:750
CHECKED	Z.F.L.	DATE	29-7-83
SUP	E'MAN	6460-6.3.3	Pe

SCANNED



NOTES:

1. CABLES 0.6 FROM PROPERTY LINE, 0.6 COVER UNLESS OTHERWISE SHOWN.
2. LENGTHS IN METRES.

CABLE LEGEND		DUCT LEGEND	
SL	STREET LIGHT CONDUCTOR	B	50 PVC CONDUIT
SC	SERVICE CABLE	C	100 PVC CONDUIT
		D	125 PVC CONDUIT
		E	100 FIBRO CONDUIT
		F	140 FIBRO CONDUIT

CABLE SCHEDULE			
CODE	TYPE	CODE	TYPE
U12	150 mm 11-V AL PLYSMS	T28	50 mm LV PVC PVC
U13	150 mm 11-V AL XLPE	T38	150 mm LV AL XLPE
U17	240 mm 11-V AL PLYSMS	T53	185 mm LV AL XLPE
U18	4 SQ 1N 11-V AL PLYSMS	T52	240 mm LV AL XLPE
U24	300 mm 11-V AL PLYSMS	T57	240 mm LV AL PLYSMS
		T64	4 SQ 1N LV AL PLYSMS
		T53	240 mm LV AL XLPE (CON. NEUT.)

SCANNED

ISSUE DATE: 23-11-94
13-2-95
28-11-96
30-8-1999

LOCATION	CH	D	DATE
9918 JAMISON ROAD	DGT	W/R	28.8.92
8786 MULGOA ROAD	MCT	JAN	13.3.91
6951 MULGOA ROAD	W.R.	JAN	9.11.88
6213 MULGOA ROAD	B.D.O.	JAN	17.3.88
6462 JAMISON ROAD	B.D.O.	JAN	17.3.88

THE PROSPECT COUNTY COUNCIL

U.G. RETICULATION

PENRITH

DRAWN	B.D.O.	SCALE	DATE
CHECKED	<i>[Signature]</i>	1:500	9-3-1988
CO-ORD	<i>[Signature]</i>	6460-6.3.3.2	
D'SERV.			

ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing on the site, and has been prepared solely for Endeavour Energy's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any whatsoever.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's property.

All electrical apparatus shall be treated as live until proved otherwise. Contact with live electrical apparatus will cause severe injury or death.

Underground assets may be congested in the approach to the site and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths elsewhere as they are channelled in allocated spaces and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.

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Non-destructive water excavation must be operated at below 2000PSI. Any operation exceeding 2000PSI must be classified and treated as a destructive excavation practice.



WARNING

- **All electrical apparatus shall be regarded as live until proved de-energised.** Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing excavation.
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

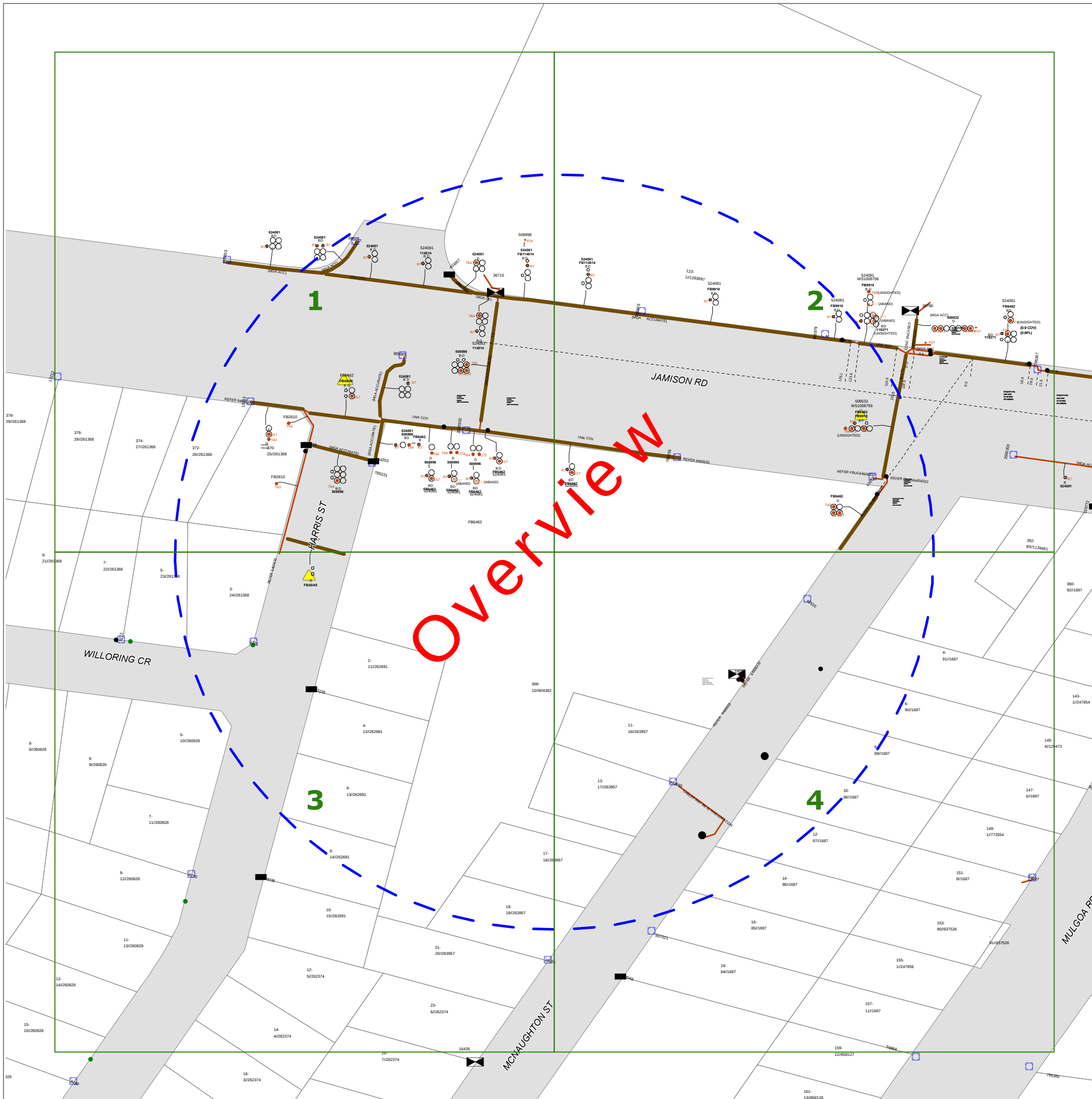
- or ■ Street light column
- ▤ Padmount substation
- or ■ Overground pillar (O.G.Box)
- ⊠ Underground pit
- Duct run
- Cable run
- ⊗ Typical duct section
- ▲ Asbestos warning



NOT TO SCALE

BYDA Sequence No.:	242129117
Issued Date:	19/07/2024

Cadastre: © Land and Property Information 2015, 2016



WARNING

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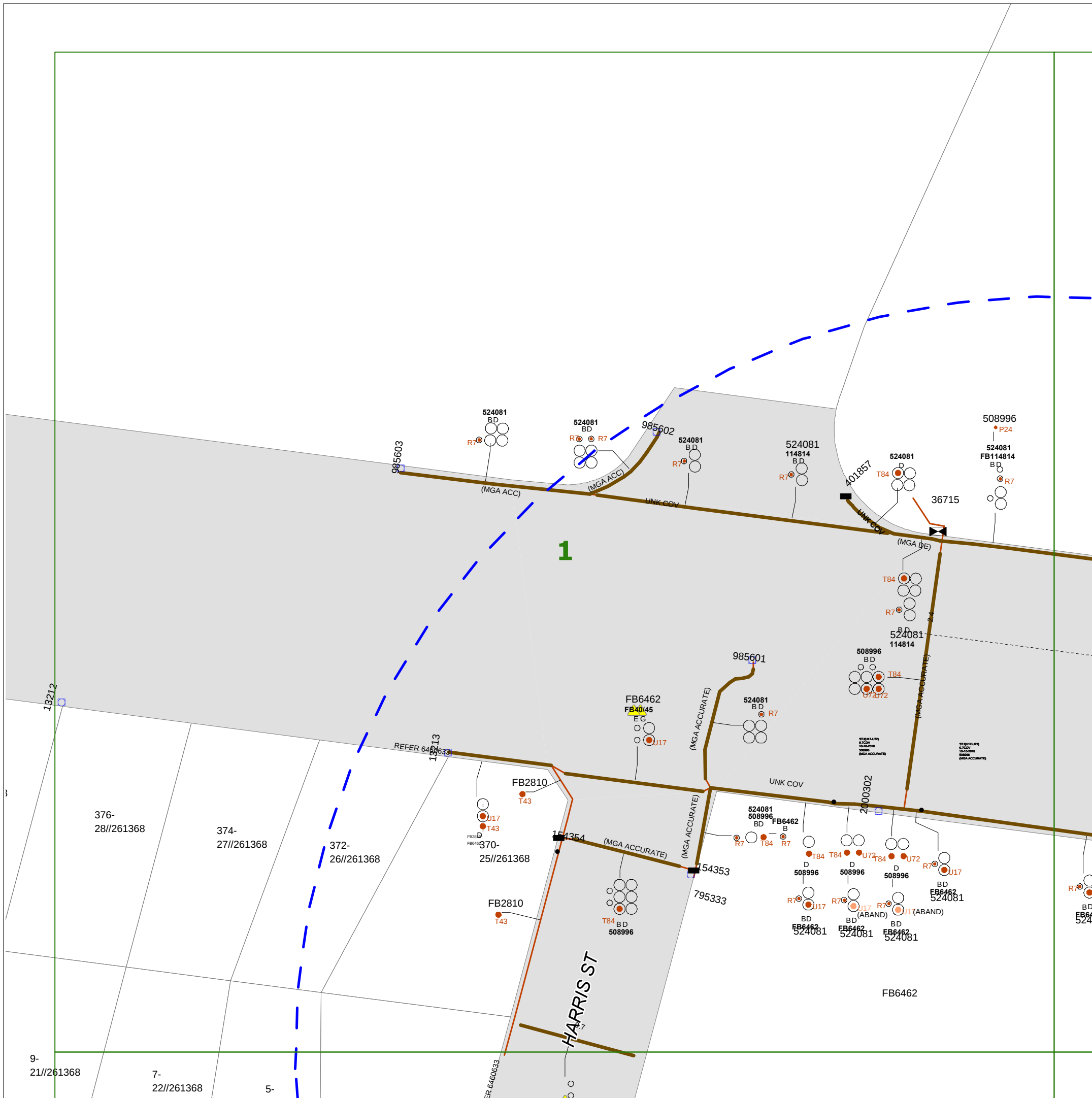
-  or  Street light column
-  Padmount substation
-  or  Overground pillar (O.G.Box)
-  Underground pit
-  Duct run
-  Cable run
-  Typical duct section
-  Asbestos warning



NOT TO SCALE

BYDA Sequence No.:	242129117
Issued Date:	19/07/2024

Cadastre: © Land and Property Information 2015, 2016



WARNING

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- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.

-  or 

Street light column
- 

Padmount substation
-  or 

Overground pillar (O.G.Box)
- 

Underground pit
- 

Duct run
- 

Cable run
- 

Typical duct section
- 

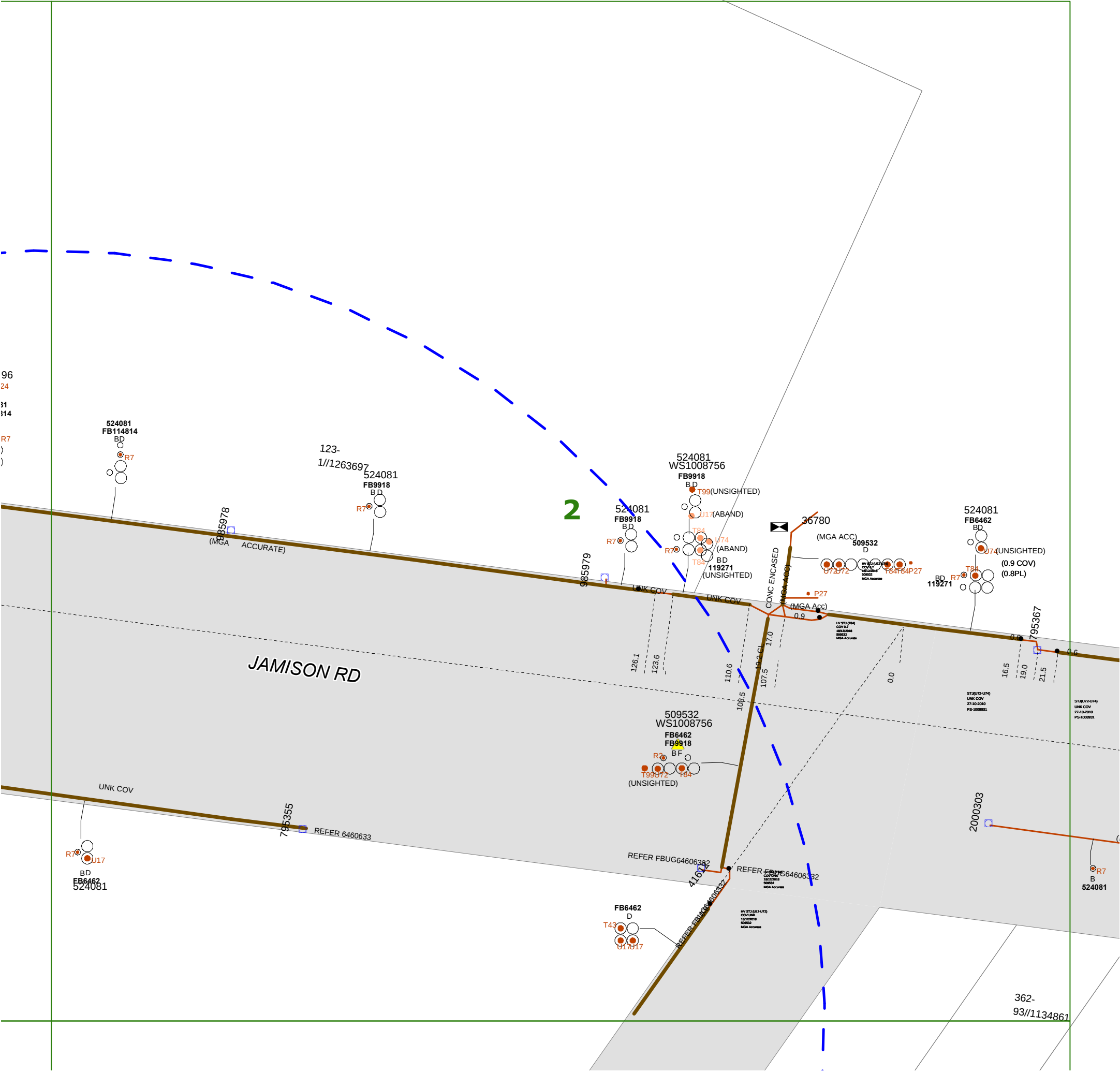
Asbestos warning

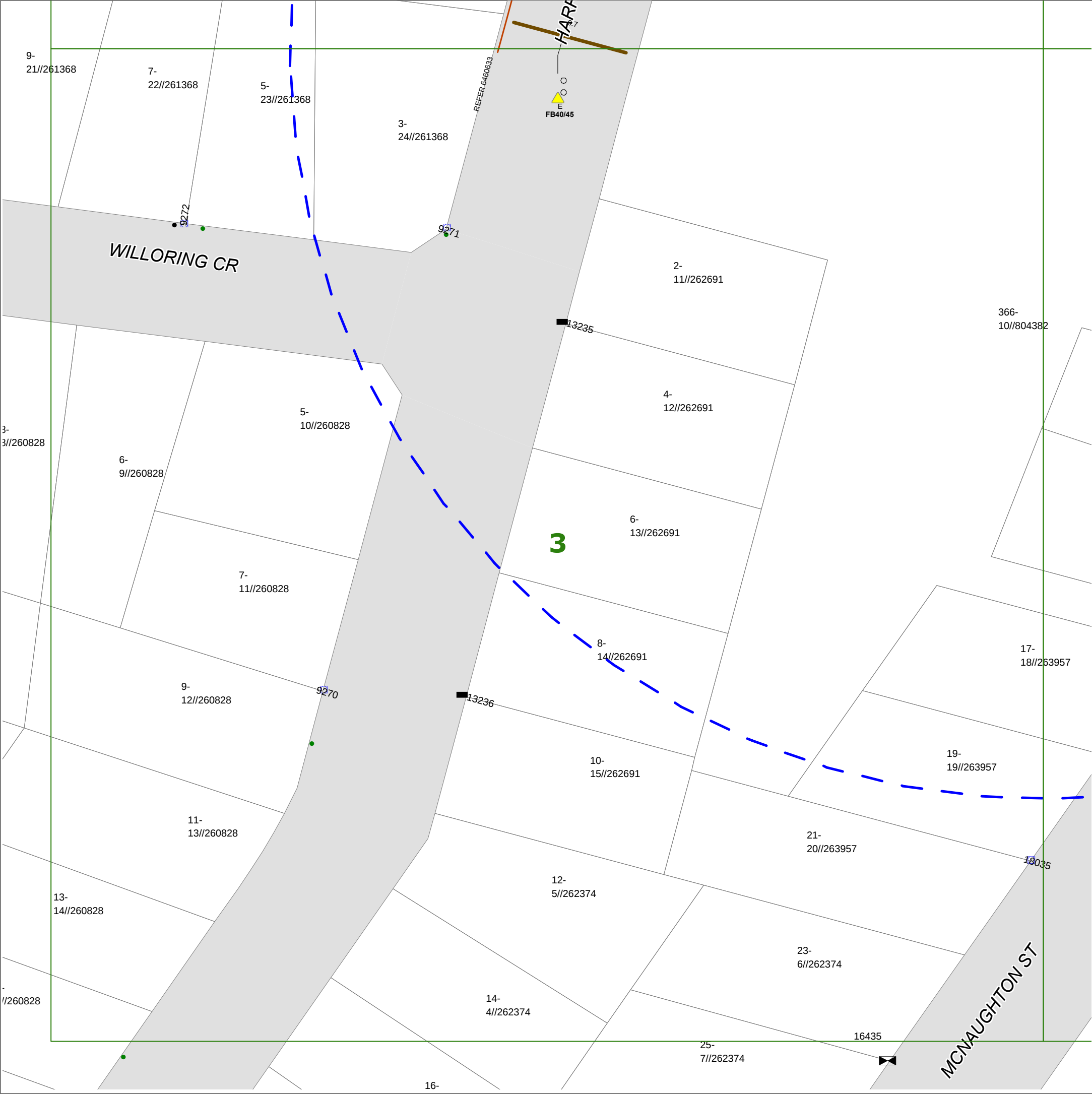


NOT TO SCALE

BYDA Sequence No.:	242129117
Issued Date:	19/07/2024

Cadastre: © Land and Property Information 2015, 2016





- All electrical apparatus shall be regarded as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (**20**) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing excavation.
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in the plans is as accurate as possible it will accept no liability for inaccuracies in the information shown on such plans.



BYDA Sequence No.:	242129117
Issued Date:	19/07/2024

Cadastre: © Land and Property Information 2015, 2016

WARNING

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INFORMATION PROVIDED BY ENDEAVOUR ENERGY

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- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
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DISCLAIMER

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-  or 

Street light column
- 

Padmount substation
-  or 

Overground pillar (O.G.Box)
- 

Underground pit
- 

Duct run
- 

Cable run
- 

Typical duct section
- 

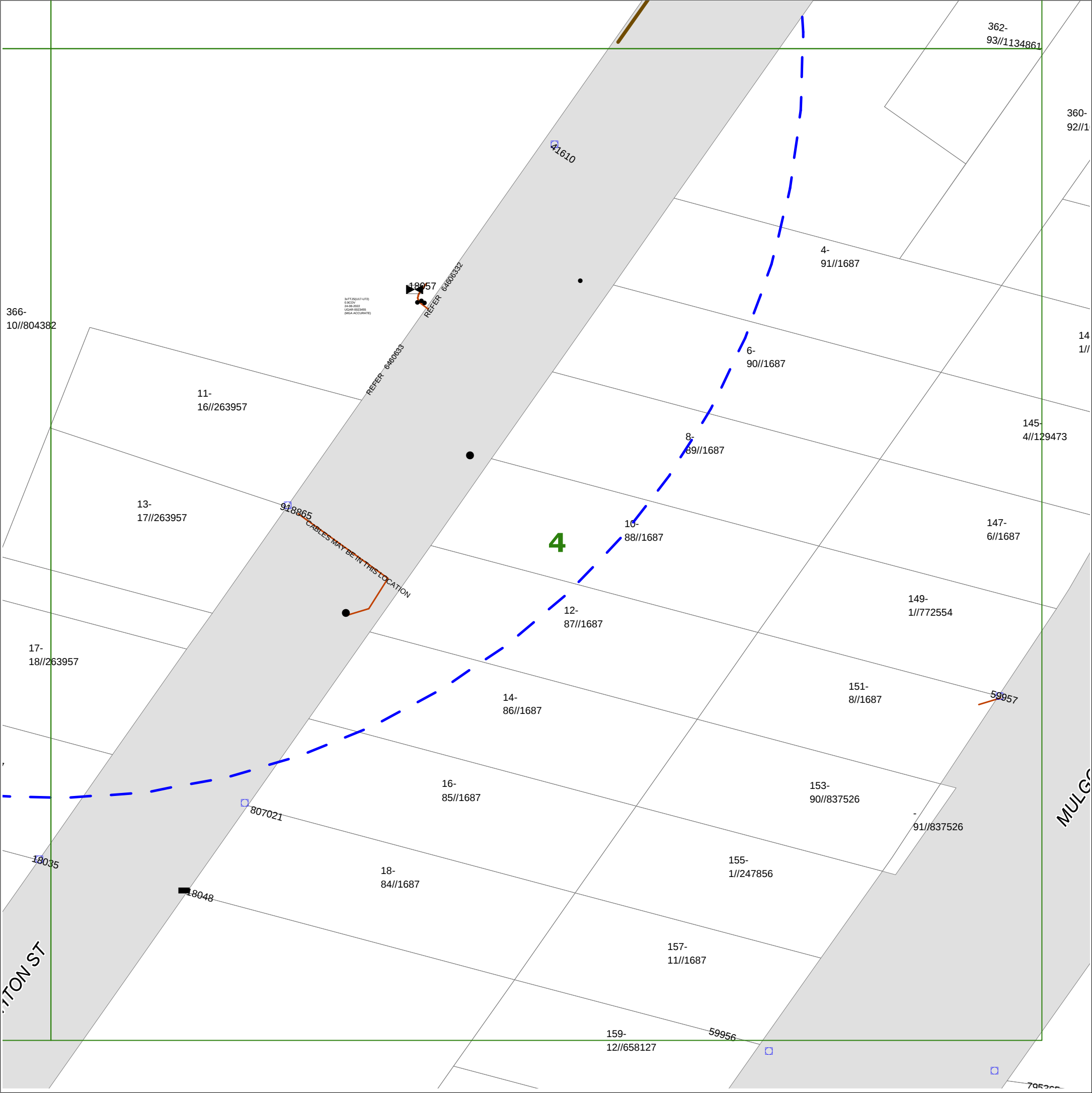
Asbestos warning



NOT TO SCALE

BYDA Sequence No.:	242129117
Issued Date:	19/07/2024

Cadastre: © Land and Property Information 2015, 2016





Working near **nbn**TM cables

nbn has partnered with Dial Before You Dig to give you a single point of contact to get information about **nbn** underground services owned by **nbn** and other utility/service providers in your area including communications, electricity, gas and other services. Contact with underground power cables and gas services can result in serious injury to the worker, and damage and costly repairs. You must familiarise yourself with all of the Referral Conditions (meaning the referral conditions referred to in the DBYD Notice provided by **nbn**).

Practice safe work habits

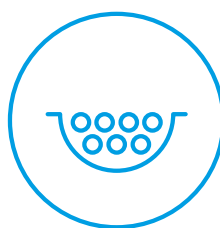
Once the DBYD plans are reviewed, the Five P's of Excavation should be adopted in conjunction with your safe work practices (which must be compliant with the relevant state Electrical Safety Act and Safe Work Australia "Excavation Work Code of Practice", as a minimum) to ensure the risk of any contact with underground **nbn** assets are minimised.



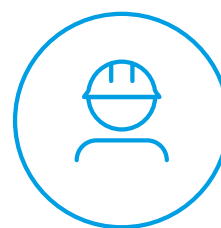
Plan: Plan your job by ensuring the plans received are current and apply to the work to be performed. Also check for any visual cues that may indicate the presence of services not covered in the DBYD plans.



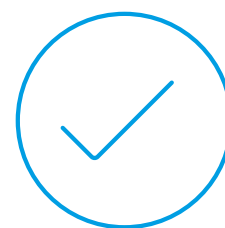
Prepare: Prepare for your job by engaging a DBYD Certified Plant Locator to help interpret plans and identify on-site assets. Contact **nbn** should you require further assistance.



Pothole: Non-destructive potholing (i.e. hand digging or hydro excavation) should be used to positively locate **nbn** underground assets with minimal risk of contact and service damage.

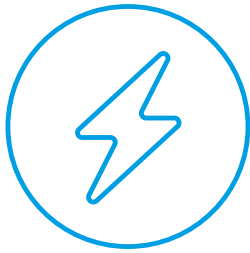


Protect: Protecting and supporting the exposed **nbn** underground asset is the responsibility of the worker. Exclusion zones for **nbn** assets are clearly stated in the plan and appropriate controls must be implemented to ensure that encroachment into the exclusion zone by machinery or activities with the potential to damage the asset is prevented.

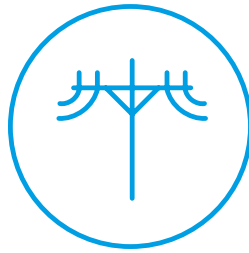


Proceed: Proceed only when the appropriate planning, preparation, potholing and protective measures are in place.

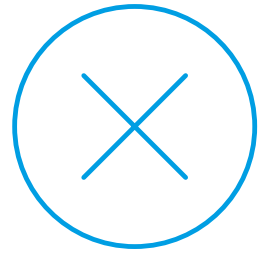
Working near **nbn**TM cables



Identify all electrical hazards, assess the risks and establish control measures.



When using excavators and other machinery, also check the location of overhead power lines.



Workers and equipment must maintain safety exclusion zones around power lines.

Once all work is completed, the excavation should be re-instated with the same type of excavated material unless specified by **nbn**. Please note:

- Construction Partners of **nbn** may require additional controls to be in place when performing excavation activities.
- The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

Contact

All **nbn**TM network facility damages must be reported online [here](#).
For enquiries related to your DBYD request please call 1800 626 329.

Disclaimer

This brochure is a guide only. It does not address all the matters you need to consider when working near our cables. You must familiarise yourself with other material provided (including the Referral Conditions) and make your own inquiries as appropriate.

nbn will not be liable or responsible for any loss, damage or costs incurred as a result of reliance on this brochure.

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LEGEND



	Parcel and the location
	Pit with size "5"
	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
	2 Direct buried cables between pits of sizes, "5" and "9" are 10.0m apart.
	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m

To: ADP Consulting
Phone: Not Supplied
Fax: Not Supplied
Email: sydneyutilities@adpconsulting.com.au

Dial before you dig Job #:	37167378	
Sequence #	242129116	
Issue Date:	19/07/2024	
Location:	366 Jamison Road , Jamisontown , NSW , 2750	

Information

The area of interest requested by you contains one or more assets.

nbn™ Assets	Search Results
Communications	Asset identified
Electricity	No assets

In this notice **nbn™ Facilities** means *underground fibre optic, telecommunications and/or power facilities, including but not limited to cables, owned and controlled by nbn™*

Location of nbn™ Underground Assets

We thank you for your enquiry. In relation to your enquiry at the above address:

- **nbn's** records indicate that there **ARE nbn™** Facilities in the vicinity of the location identified above ("Location").
- **nbn** indicative plan/s are attached with this notice ("Indicative Plans").
- The Indicative Plan/s show general depth and alignment information only and are not an exact, scale or accurate depiction of the location, depth and alignment of **nbn™** Facilities shown on the Plan/s.
- In particular, the fact that the Indicative Plans show that a facility is installed in a straight line, or at uniform depth along its length cannot be relied upon as evidence that the facility is, in fact, installed in a straight line or at uniform depth.
- You should read the Indicative Plans in conjunction with this notice and in particular, the notes below.
- You should note that, at the present time, the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables. As such, consistent with the notes below, particular care must be taken by you to make your own enquiries and investigations to precisely locate any power cables and manage the risk arising from such cables accordingly.
- The information contained in the Indicative Plan/s is valid for 28 days from the date of issue set out above. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators, e.g DBYD Certified Locators, at your cost to locate **nbn™** Facilities during any activities you carry out on site).

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service. For any enquiries related to moving assets or Planning and Design activities, please visit the **nbn Commercial Works** website to complete the online application form. If you are planning to excavate and require further information, please email dbyd@nbnco.com.au or call 1800 626 329.

Notes:

1. You are now aware that there are **nbn™** Facilities in the vicinity of the above property that could be damaged as a result activities carried out (or proposed to be carried out) by you in the vicinity of the Location.
2. You should have regard to section 474.6 and 474.7 of the *Criminal Code Act 1995* (CoA) which deals with the consequences of interfering or tampering with a telecommunications facility. Only persons authorised by **nbn** can interact with **nbn's** network facilities.
3. Any information provided is valid only for **28 days** from the date of issue set out above.

Referral Conditions

The following are conditions on which **nbn** provides you with the Indicative Plans. By accepting the plans, you are agreeing to these conditions. These conditions are in addition, and not in replacement of, any duties and obligations you have under applicable law.

1. **nbn** does not accept any responsibility for any inaccuracies of its plans including the Indicative Plans. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators, e.g DBYD Certified Locators, at your cost to locate **nbn™** Facilities during any activities you carry out on site).
2. You acknowledge that **nbn** has specifically notified you above that the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables.
3. You should not assume that **nbn™** Facilities follow straight lines or are installed at uniform depths

along their lengths, even if they are indicated on plans provided to you. Careful onsite investigations are essential to locate the exact position of cables.

4. In carrying out any works in the vicinity of **nbn**™ Facilities, you must maintain the following minimum clearances:
 - 300mm when laying assets inline, horizontally or vertically.
 - 500mm when operating vibrating equipment, for example: jackhammers or vibrating plates.
 - 1000mm when operating mechanical excavators.
 - Adherence to clearances as directed by other asset owner's instructions and take into account any uncertainty for power cables.
5. You are aware that there are inherent risks and dangers associated with carrying out work in the vicinity of underground facilities (such as **nbn**™ fibre optic, copper and coaxial cables, and power cable feed to **nbn**™ assets). Damage to underground electric cables may result in:
 - Injury from electric shock or severe burns, with the possibility of death.
 - Interruption of the electricity supply to wide areas of the city.
 - Damage to your excavating plant.
 - Responsibility for the cost of repairs.
6. You must take all reasonable precautions to avoid damaging **nbn**™ Facilities. These precautions may include but not limited to the following:
 - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the likelihood of damage to the cable, for example: the blades of hand equipment should be aligned parallel to the line of the cable rather than digging across the cable.
 - If any undisclosed underground cables are located, notify **nbn** immediately.
 - All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.
 - The safety of the public and other workers must be ensured.
 - All excavations must be undertaken in accordance with all relevant legislation and regulations.
7. You will be responsible for all damage to **nbn**™ Facilities that are connected whether directly, or indirectly with work you carry out (or work that is carried out for you or on your behalf) at the Location. This will include, without limitation, all losses expenses incurred by **nbn** as a result of any such damage.
8. You must immediately report any damage to the **nbn**™ network that you are/become aware of. Notification may be by telephone - 1800 626 329.
9. Except to the extent that liability may not be capable of lawful exclusion, **nbn** and its servants and agents and the related bodies corporate of **nbn** and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any plans (including Indicative Plans) attached hereto. Except as expressly provided to the contrary in this information sheet or the attached plans (including Indicative Plans), all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

All works undertaken shall be in accordance with all relevant legislations, acts and regulations applicable to the particular state or territory of the Location. The following table lists all relevant documents that shall be considered and adhered to.

State/Territory	Documents
National	Work Health and Safety Act 2011
	Work Health and Safety Regulations 2011
	Safe Work Australia - Working in the Vicinity of Overhead and Underground Electric Lines (Draft)

	Occupational Health and Safety Act 1991
NSW	Electricity Supply Act 1995
	Work Cover NSW - Work Near Underground Assets Guide
	Work Cover NSW - Excavation Work: Code of Practice
VIC	Electricity Safety Act 1998
	Electricity Safety (Network Asset) Regulations 1999
QLD	Electrical Safety Act 2002
	Code of Practice for Working Near Exposed Live Parts
SA	Electricity Act 1996
TAS	Tasmanian Electricity Supply Industry Act 1995
WA	Electricity Act 1945
	Electricity Regulations 1947
NT	Electricity Reform Act 2005
	Electricity Reform (Safety and Technical) Regulations 2005
ACT	Electricity Act 1971

Thank You,

nbn DBYD

Date: 19/07/2024

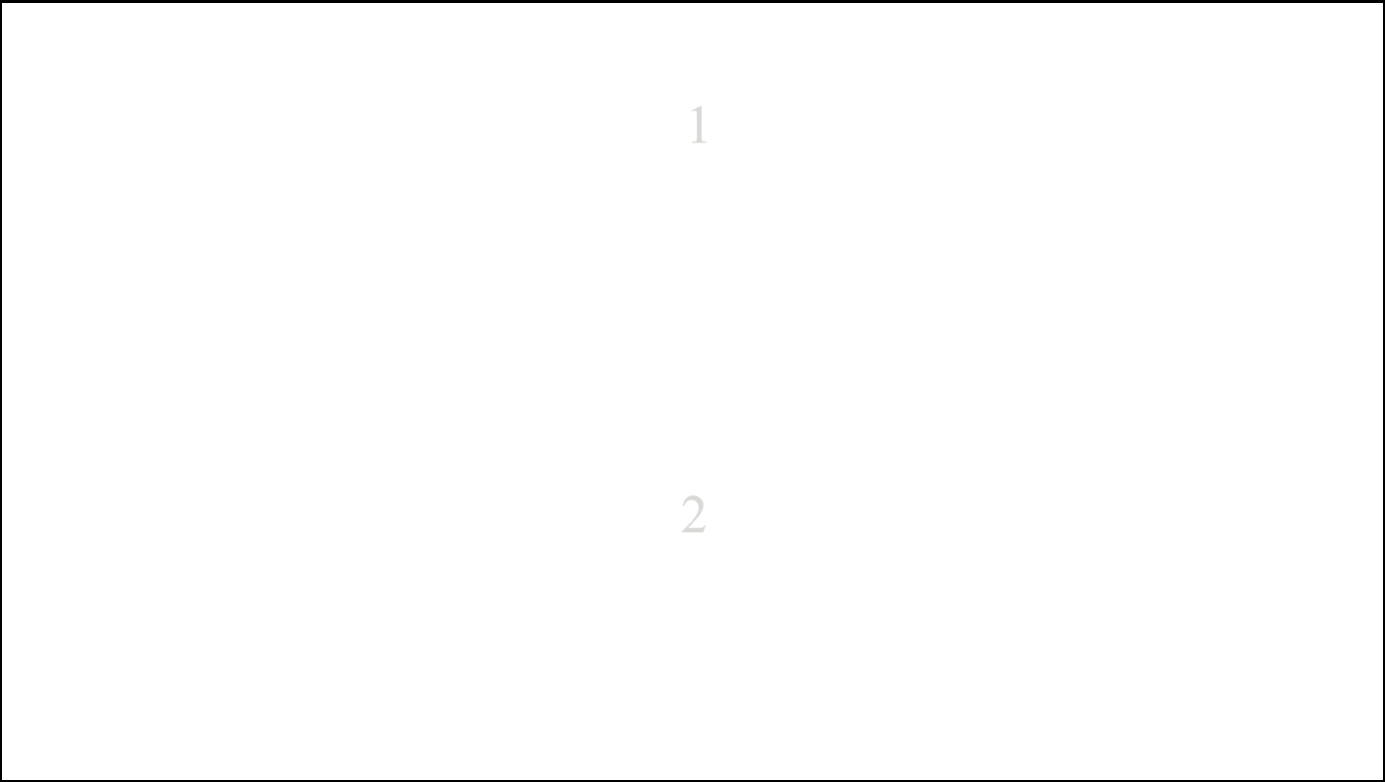
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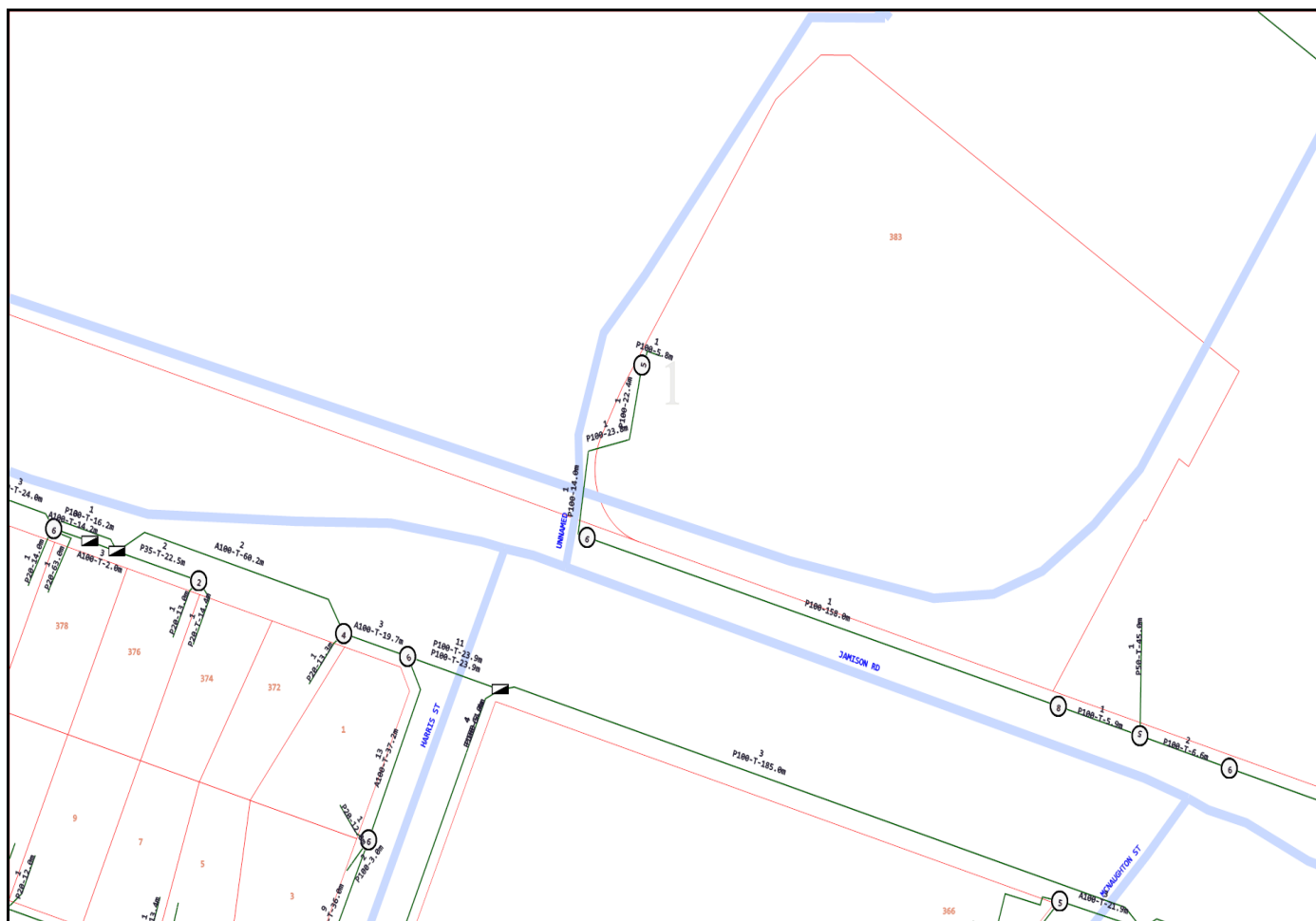
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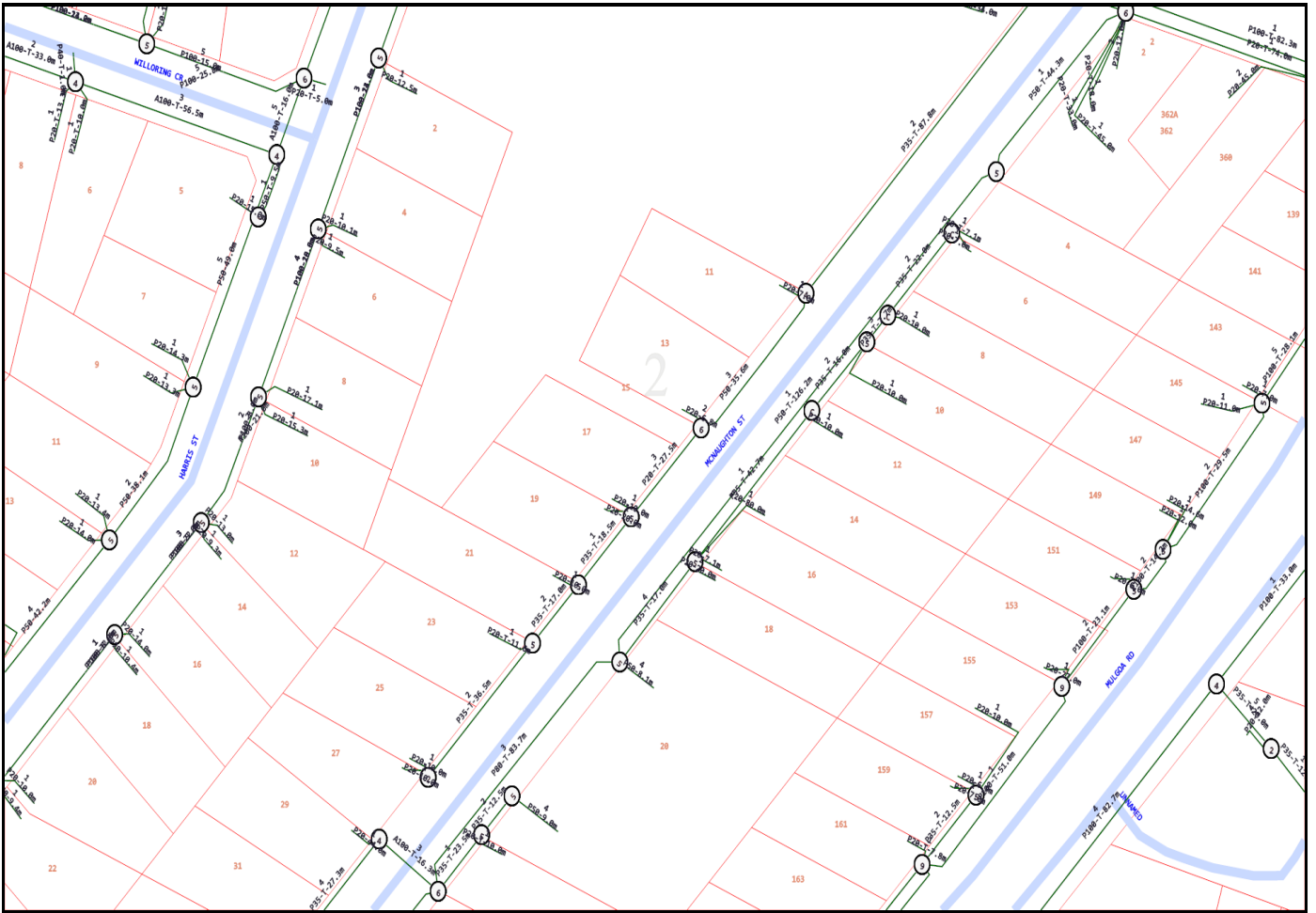
To: ADP Consulting
Phone: Not Supplied
Fax: Not Supplied
Email: sydneyutilities@adpconsulting.com.au

Dial before you dig Job #:	37167378	
Sequence #	242129116	
Issue Date:	19/07/2024	
Location:	366 Jamison Road , Jamisontown , NSW , 2750	

Indicative Plans are tiled below to demonstrate how to layout and read nbn asset plans







Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.

Date: 19/07/2024

Enquirer Name: ADP Consulting
Enquirer Address: 8 Spring Street Level 3
Email: sydneyutilities@adpconsulting.com.au
Phone: +61282035447

Dear ADP Consulting

The following is our response on behalf of each of the TPG carriers (listed below) to your Before You Dig Australia enquiry – Sequence 242129118

It is provided to you on a confidential basis under the following conditions and must be shredded or securely disposed of after use.

Assets Affected: 366 Jamison Road Jamisontown

Carriers (each a “TPG carrier”) and assets affected:

PIPE Networks

Location:

According to our records, the underground assets in the vicinity of the location stated in your enquiry are **AFFECTED**. Please read the below information and disclaimers in addition to the any attached plans provided prior to any construction activities.

IMPORTANT INFORMATION

- The information provided is valid for 30 days from the date of this response. If your work site area changes or your construction activity is beyond 30 days please contact Before You Dig Australia on 1100 or www.1100.com.au to re-submit a new enquiry.
- Due to the nature of underground assets and the age of some assets and records, our plans are indicative of the general location only and may not show all assets in the location. You should not solely rely on these plans when undertaking construction works. It is also inaccurate to assume depth or that underground network conduit and cables follow straight lines, and careful on-site investigations are essential to locate an asset's exact position prior to excavation. It is your responsibility to locate and confirm the exact location of our infrastructure using non-destructive techniques. We make no warranty or guarantee that our plans are complete, current or error free, and to the maximum extent permitted by law we exclude all liability to you, your employees, agents and contractors for any loss, damage or claim arising out of or in connection with using our plans.
- Please note that some of our conduits carry electrical cables and gas pipes. Please exercise extreme care when working within the vicinity of these conduit and take into account the minimum clearance distances under Duty Of Care below.
- You (and your employee and contractors) must not open, move, interfere, alter or relocate any of our assets without our prior approval.
- **Note** It is a criminal offence under the *Criminal Code Act 1995 (Cth)* to tamper or interfere with communication facilities owned by a carrier. Heavy penalties may apply for breach of this prohibition, and any damages suffered, or costs incurred by us as a result of such unauthorised works may be claimed against you.

DAMAGE

- You must report immediately any damage to our network on **1800 786 306** (24hrs). We will hold you liable and seek compensation for any loss or damage to our network, our property and our customers that is caused by or arises out of your activities.

DUTY OF CARE

You have a duty of care to carefully locate, validate and protect our assets when carrying out works near our infrastructure. For construction activities that may impact on or interfere with our network, you will need to call us on **1800 786 306** to discuss a suitable engineering solution, lead time and cost involved. The below precautions must be taken when working in the vicinity of our network:

- Contact us on **1800 786 306** to discuss and obtain relevant information and plans on our infrastructure in a particular location if the information provided in this response is insufficient.
- Physically locate and mark on-site our network infrastructure using non-destructive techniques i.e. pot holing or hand digging every 5 metres prior to commencing any construction activities. Assets located must be marked to AS5488 standard. **NO CONSTRUCTION WORK IS ALLOWED UNTIL THIS STEP IS COMPLETED.** You must use an approved telecommunications accredited locator, or we can provide a locator for you at your expense. If we provide you with a locator, and this locator attended the site and is proven to be grossly negligent in physically locating and marking our infrastructure, then to the extent any TPG carrier is liable for this locator's negligence, acts and omissions, the total liability aggregated for all TPG carriers is limited, at our option, to attend the site and re-mark the infrastructure or to pay for a third party to re-mark the infrastructure.
- If you require us to locate or monitor our infrastructure, please allow five business days' notice for us to respond.
- Ensure all information, including our network requirements and any associated plans provided by us are kept confidential and remain on-site throughout your construction works.

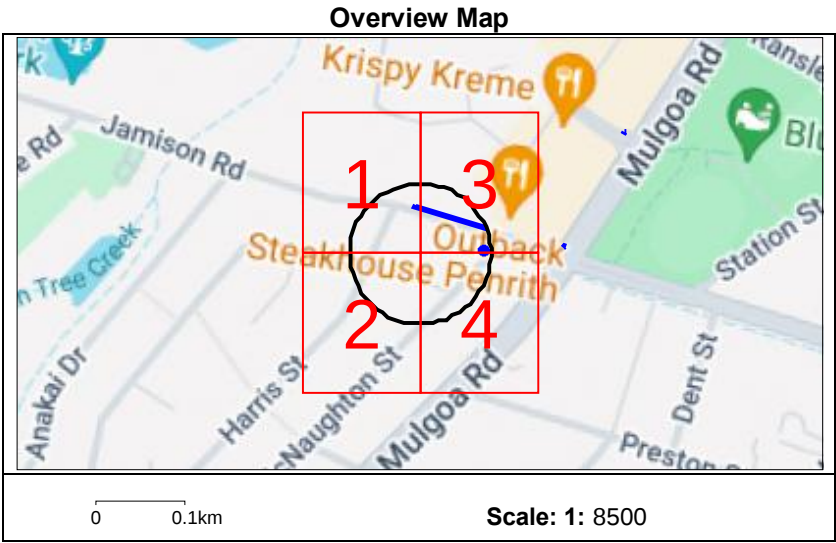
- Use suitably qualified and supervised professionals, particularly if you are working near assets that contain electricity cables or gas pipes.
- Ensure the below minimum clearance distances between the construction activities and the actual location of our assets are met. If you need clearance distances for our above ground assets, or if the below distances cannot be met, call **1800 786 306** to discuss.

Minimum assets clearance distances.

- 300mm when laying asset inline, horizontal or vertical.
 - 1000mm when operating vibrating equipment. Eg: vibrating plates. No vibrating equipment on top of asset.
 - 1000mm when operating mechanical excavators or jackhammers/pneumatic breakers.
 - 2000mm when performing directional bore in-line, horizontal and vertical.
 - No heavy vehicle over 3 tonnes to be driven over asset with less than 600mm of cover.
- Reinstate exposed TPG network infrastructure back to original state.

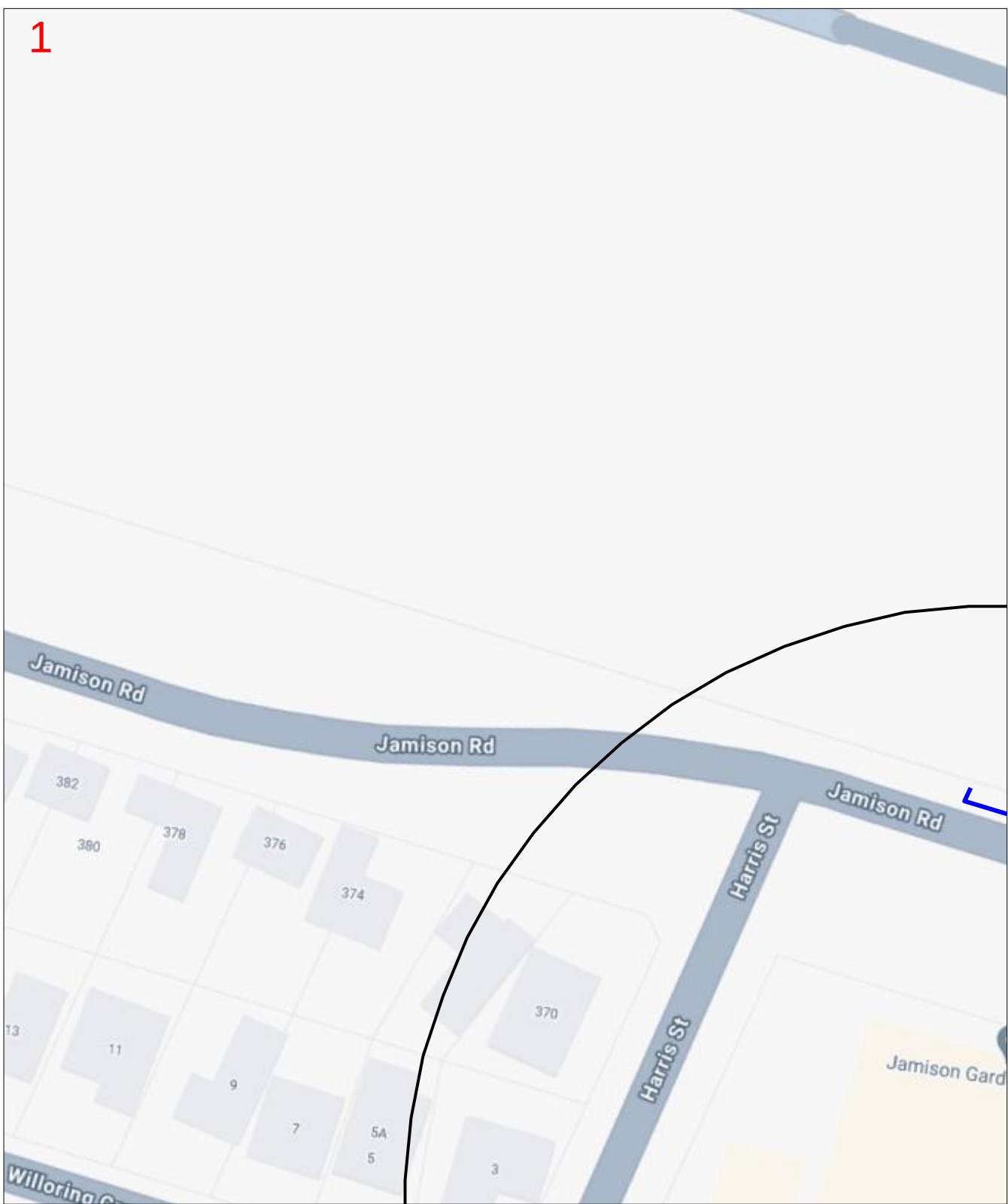
PRIVACY & CONFIDENTIALITY

- Privacy Notice – Your information has been provided to us by Before You Dig Australia to respond to your Before You Dig Australia enquiry. We will keep your personal information in accordance with TPG’s privacy policy, see www.tpg.com.au/about/privacy.
- Confidentiality – The information we have provided to you is confidential and is to be used only for planning and designing purposes in connection with your Before You Dig Australia enquiry. Please dispose of the information by shredding or other secure disposal method after use. We retain all intellectual property rights (including copyrights) in all our documents and plans.



TPG Telecom Limited

1



Enquiry Number: 242129118

Map Sheet: 1

Scale: 1: 750

0 0.008km



LEGEND

BYDA Work Area



AAPT/PowerTel Pit



AAPT/PowerTel Duct



DDA Pit



DDA Duct



Agile/Adam Pit



Agile/Adam Duct



TransACT Pit



TransACT Duct



SOUL Pattinson Telecoms Pit



SOUL Pattinson Telecoms Duct



PIPE Networks Pit



PIPE Networks Duct



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Enquiry Number: 242129118

Map Sheet: 2

Scale: 1: 750

0 0.008km

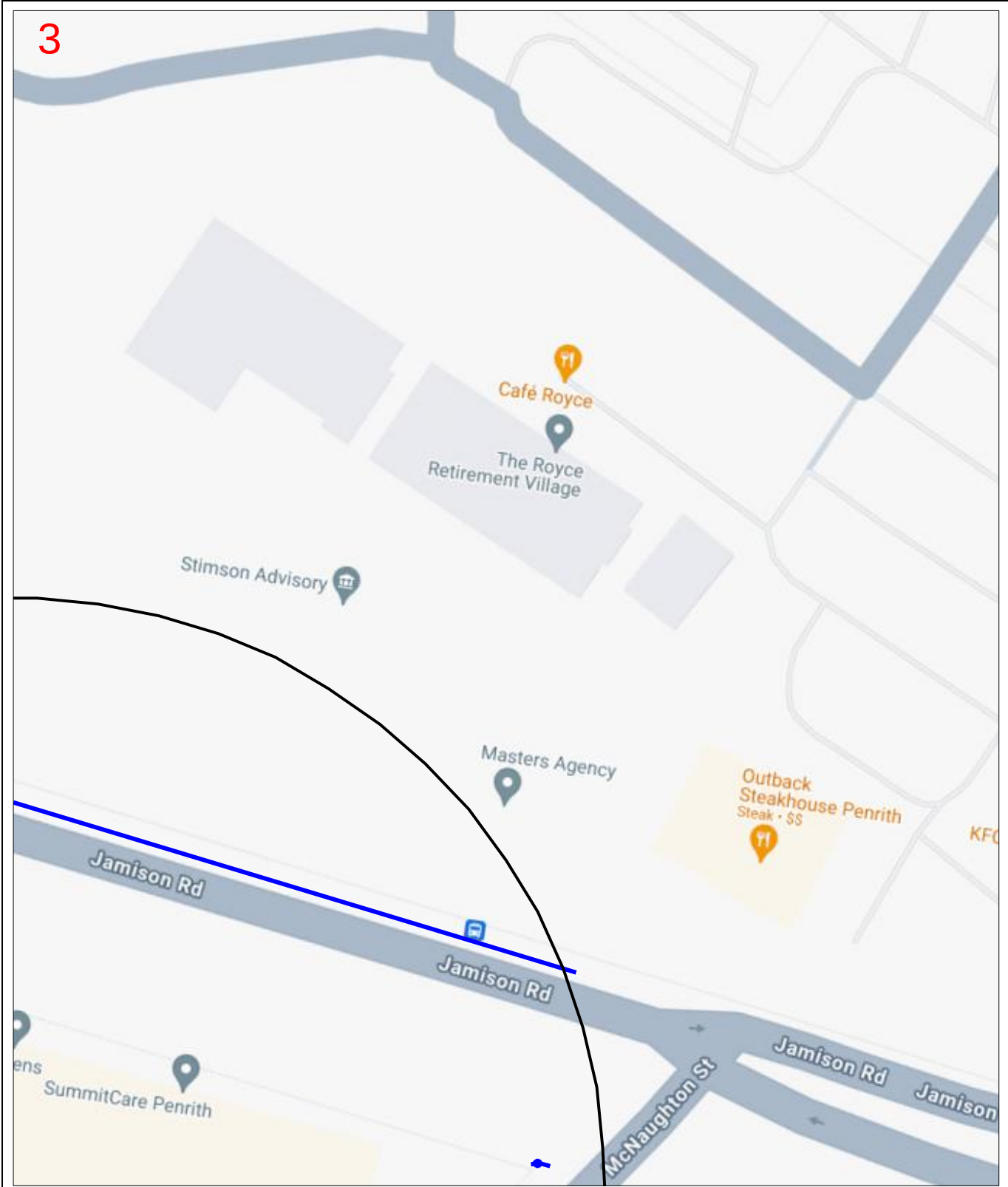
N

LEGEND

BYDA Work Area

AAPT/PowerTel Pit	●	TransACT Pit	●
AAPT/PowerTel Duct	—	TransACT Duct	—
DDA Pit	●	SOUL Pattinson Telecoms Pit	●
DDA Duct	—	SOUL Pattinson Telecoms Duct	—
Agile/Adam Pit	●	PIPE Networks Pit	●
Agile/Adam Duct	—	PIPE Networks Duct	—

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Enquiry Number: 242129118

Map Sheet: 3

Scale: 1: 750

0 0.008km

N

LEGEND

BYDA Work Area

AAPT/PowerTel Pit	●	TransACT Pit	●
AAPT/PowerTel Duct	—	TransACT Duct	—
DDA Pit	●	SOUL Pattinson Telecoms Pit	●
DDA Duct	—	SOUL Pattinson Telecoms Duct	—
Agile/Adam Pit	●	PIPE Networks Pit	●
Agile/Adam Duct	—	PIPE Networks Duct	—

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Before You Dig Australia

Think before you dig

This document has been sent to you because you requested plans of the Telstra network through Before You Dig Australia (BYDA).

If you are working or excavating near telecommunications cables, or there is a chance that cables are located near your site, you are responsible to avoid causing damage to the Telstra network.

Please read this document carefully. Taking your time now and following the steps below can help you avoid damaging our network, interrupting services, and potentially incurring civil and criminal penalties.

Our network is complex and working near it requires expert knowledge. Do not attempt these activities if you are not qualified to do so.

Disclaimer and legal details



*Telstra advises that the accuracy of the information provided by Telstra conforms to Quality Level D as defined in AS5488-2013.

It is a criminal offence under the Criminal Code Act 1995 (Cth) to tamper or interfere with telecommunications infrastructure.

Telstra will also take action to recover costs and damages from persons who damage assets or interfere with the operation of Telstra's networks.

By receiving this information including the indicative plans that are provided as part of this information package you confirm that you understand and accept the risks of working near Telstra's network and the importance of taking all the necessary steps to confirm the presence, alignments and various depths of Telstra's network. This in addition to, and not in replacement of, any duties and obligations you have under applicable law.

When working in the vicinity of a telecommunications plant you have a "Duty of Care" that must be observed. Please read and understand all the information and disclaimers provided below.

The Telstra network is complex and requires expert knowledge to interpret information, to identify and locate components, to pothole underground assets for validation and to safely work around assets without causing damage. If you are not an expert and/or qualified in these areas, then you must not attempt these activities. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers. Construction activities and/or any activities that potentially may impact on Telstra's assets must not commence without first undertaking these steps. Construction activities can include anything that involves breaking ground, potentially affecting Telstra assets.

If you are designing a project, it is recommended that you also undertake these steps to validate underground assets prior to committing to your design.

This Notice has been provided as a guide only and may not provide you with all the information that is required for you to determine what assets are on or near your site of interest. You will also need to collate and understand all of the information received from other Utilities and understand that some Utilities are not a part of the BYDA program and make your own enquiries as appropriate. It is the responsibility of the entities undertaking the works to protect Telstra's network during excavation / construction works.

Telstra owns and retains the copyright in all plans and details provided in conjunction with the applicant's request. The applicant is authorised to use the plans and details only for the purpose indicated in the applicant's request. The applicant must not use the plans or details for any other purpose.

Telstra plans or other details are provided only for the use of the applicant, its servants, agents, or Certified Locating Organisation. The applicant must not give the plans or details to any parties other than these and must not generate profit from commercialising the plans or details.

Telstra, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Telstra against any claim or demand for any such loss or damage.

Please ensure Telstra plans and information provided always remains on-site throughout the inspection, location, and construction phase of any works.

Telstra plans are valid for 60 days after issue and must be replaced if required after the 60 days.

Data Extraction Fees

In some instances, a data extraction fee may be applicable for the supply of Telstra information. Typically, a data extraction fee may apply to large projects, planning and design requests or requests to be supplied in non-standard formats. For further details contact Telstra Planned Services.

Telstra does not accept any liability or responsibility for the performance of or advice given by a Certified Locating Organisation. Certification is an initiative taken by Telstra towards the establishment and maintenance of competency standards. However, performance and the advice given will always depend on the nature of the individual engagement.

Neither the Certified Locating Organisation nor any of its employees are an employee or agent for Telstra. Telstra is not liable for any damage or loss caused by the Certified Locating Organisation or its employees.

Once all work is completed, the excavation should be reinstated with the same type of excavated material unless specified by Telstra

The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

When using excavators and other machinery, also check the location of overhead power lines.

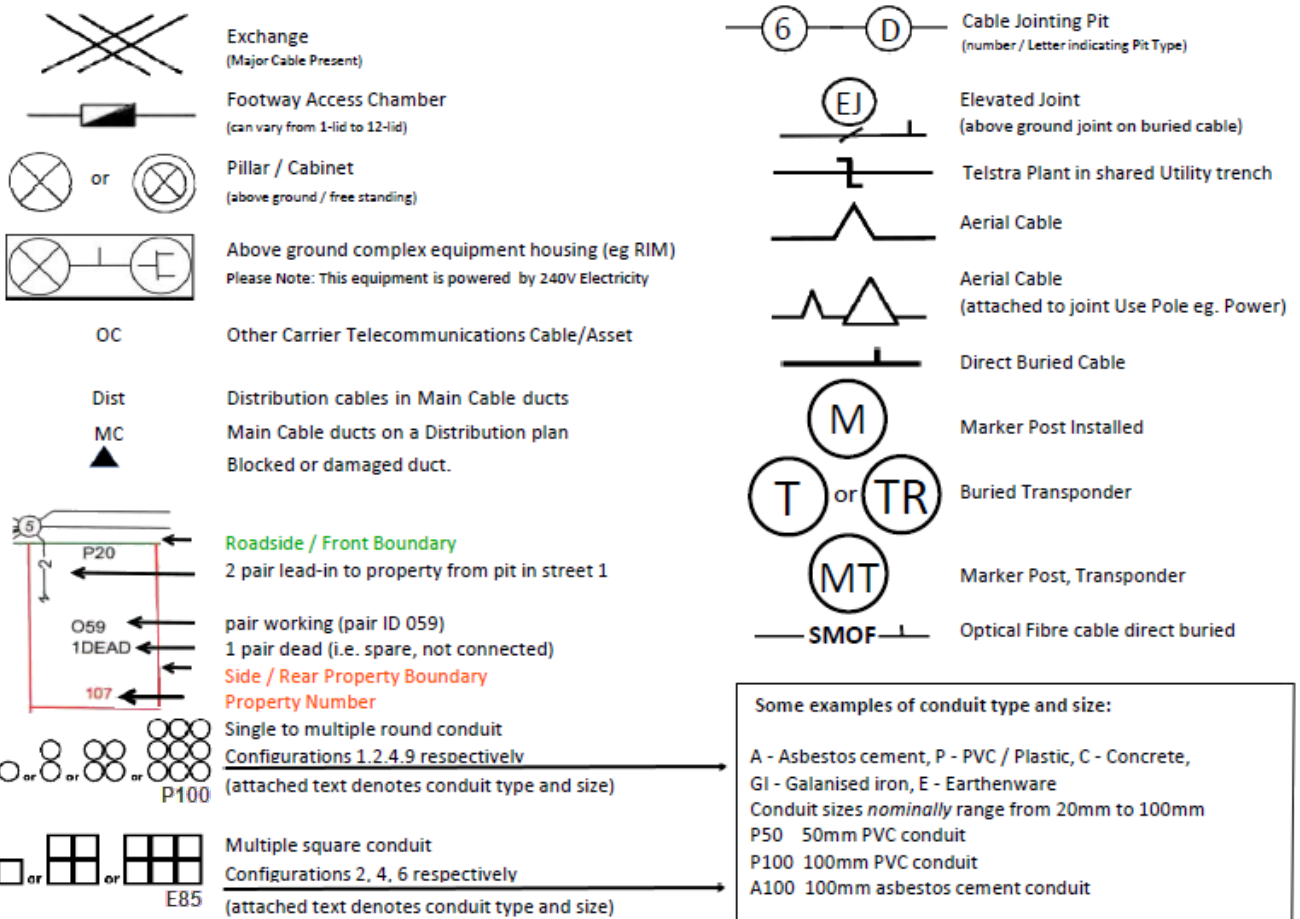
Workers and equipment must maintain safety exclusion zones around power lines

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. **FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK.** A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the assets are protected during construction works. The exact position of Telstra assets can only be validated by physically exposing them. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

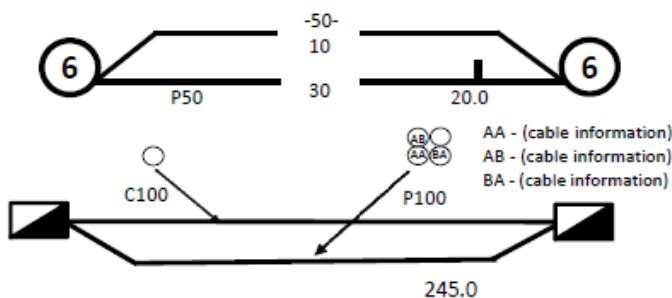
Privacy Note

Your information has been provided to Telstra by BYDA to enable Telstra to respond to your BYDA request. Telstra keeps your information in accordance with its privacy statement. You can obtain a copy at www.telstra.com.au/privacy or by calling us at 1800 039 059 (business hours only).

LEGEND



Some Examples of how to read Telstra Plans



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits, approximately 20.0m apart, with a direct buried 30-pair cable along the same route

Two separate conduit runs between two footway access chambers (manholes) approximately 245m apart A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along

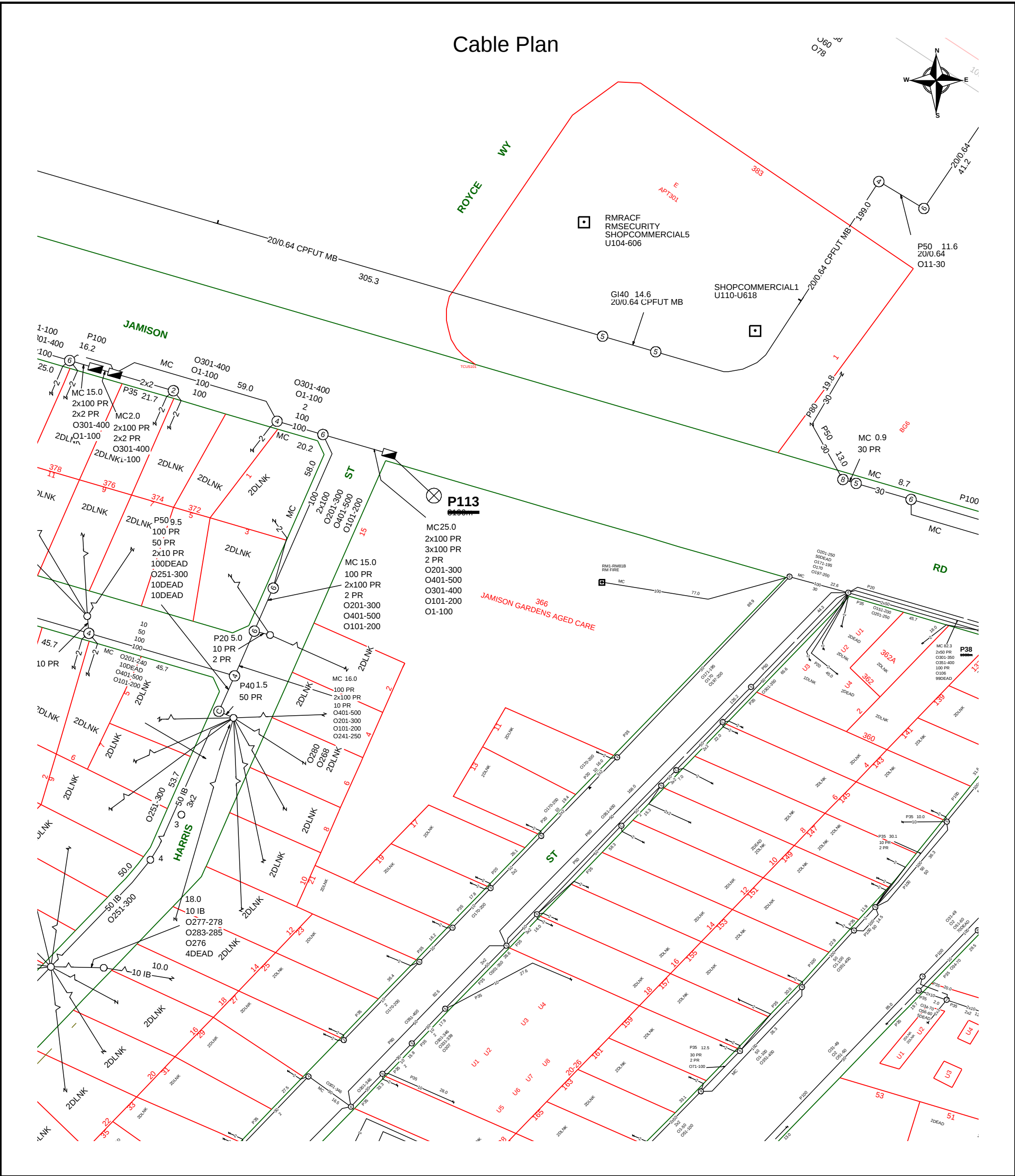
Protect our Network:

by maintaining the following distances from our assets:

- 1.0m Mechanical Excavators, Farm Ploughing, Tree Removal
- 500mm Vibrating Plate or Wacker Packer Compactor
- 600mm Heavy Vehicle Traffic (over 3 tonnes) not to be driven across Telstra ducts or plant.
- 1.0m Jackhammers/Pneumatic Breakers
- 2.0m Boring Equipment (in-line, horizontal and vertical)

For more info contact a [Certified Locating Organisation](#) or Telstra Plan Services 1800 653 935

Cable Plan



	Report Damage: https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment Ph - 13 22 03 Email - Telstra.Plans@team.telstra.com Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries	Sequence Number: 242129121 CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.
TELSTRA LIMITED A.C.N. 086 174 781 Generated On 19/07/2024 17:19:08		

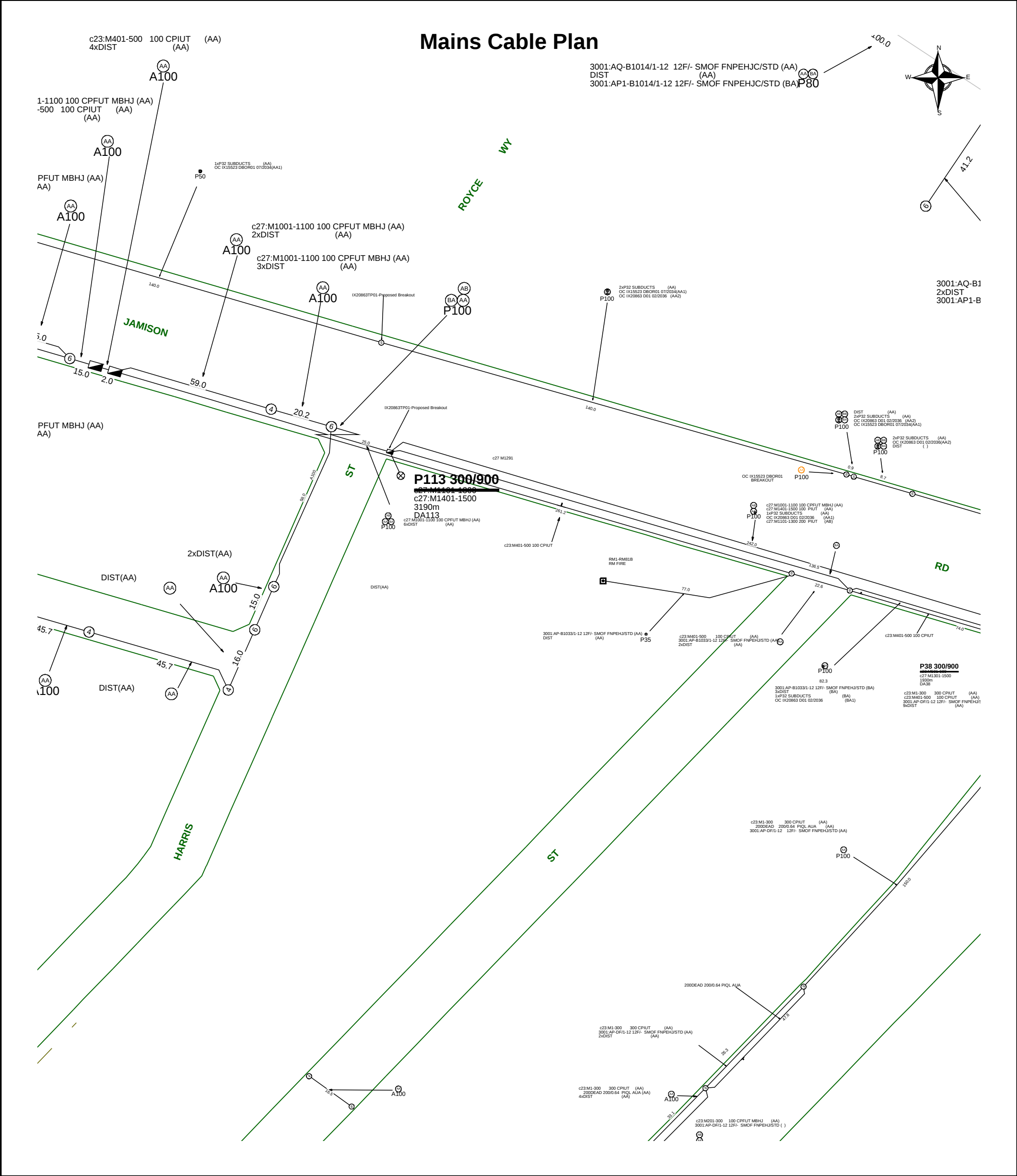
The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING

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See the Steps- Telstra Duty of Care that was provided in the email response.

Page 1 of 2



	Report Damage: https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment Ph - 13 22 03 Email - Telstra.Plans@team.telstra.com Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries	Sequence Number: 242129121
	TELSTRA LIMITED A.C.N. 086 174 781 Generated On 19/07/2024 17:19:11	CAUTION: Fibre optic and/ or major network present in plot area. Please read the Duty of Care and contact Telstra Plan Services should you require any assistance.

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See the Steps- Telstra Duty of Care that was provided in the email response.

Guide to reading Sydney Water Before You Dig Plans

This guide will help you understand our plans and what our services are.

Sewer		Property Details	
Sewer Main (with flow arrow & size type text)		Boundary Line	
Disused Main		Easement Line	
Rising Main		House Number	
Maintenance Hole (with upstream depth to invert)		Lot Number	
Sub-surface chamber		Proposed Land	
Maintenance Hole with Overflow chamber		Sydney Water Heritage Site (please call 132 092 and ask for the Heritage Unit)	
Ventshaft EDUCT			
Ventshaft INDUCT			
Property Connection Point (with chainage to downstream MH)			
Concrete Encased Section			
Terminal Maintenance Shaft			
Maintenance Shaft			
Rodding Point			
Lamphole			
Vertical			
Pumping Station			
Sewer Rehabilitation			
Pressure Sewer		Water	
Pressure Sewer Main		WaterMain - Potable (with size type text)	
Pump Unit (Alarm, Electrical Cable, Pump Unit)		Disconnected Main - Potable	
Property Valve Boundary Assembly		Proposed Main - Potable	
Stop Valve		Water Main - Recycled	
Reducer / Taper		Special Supply Conditions - Potable	
Flushing Point		Special Supply Conditions - Recycled	
Vacuum Sewer		Restrained Joints - Potable	
Pressure Sewer Main		Restrained Joints - Recycled	
Division Valve		Hydrant	
Vacuum Chamber		Maintenance Hole	
Clean Out Point		Stop Valve	
Stormwater		Stop Valve with By-pass	
Stormwater Pipe		Stop Valve with Tapers	
Stormwater Channel		Closed Stop Valve	
Stormwater Gully		Air Valve	
Stormwater Maintenance Hole		Valve	
		Scour	
		Reducer / Taper	
		Vertical Bends	
		Reservoir	
		Recycled Water is shown as per Potable above. Colour as indicated	
Private Mains		Potable Water Main	
		Recycled Water Main	
		Sewer Main	
		Symbols for Private Mains shown grey	

Pipe types

ABS	Acrylonitrile Butadiene Styrene	AC	Asbestos Cement
BRICK	Brick	CI	Cast Iron
CICL	Cast Iron Cement Lined	CONC	Concrete
COPPER	Copper	DI	Ductile Iron
DICL	Ductile Iron Cement (mortar) Lined	DIPL	Ductile Iron Polymeric Lined
EW	Earthenware	FIBG	Fibreglass
FL BAR	Forged Locking Bar	GI	Galvanised Iron
GRP	Glass Reinforced Plastics	HDPE	High Density Polyethylene
MS	Mild Steel	MSCL	Mild Steel Cement Lined
PE	Polyethylene	PC	Polymer Concrete
PP	Polypropylene	PVC	Polyvinylchloride
PVC - M	Polyvinylchloride, Modified	PVC - O	Polyvinylchloride, Oriented
PVC - U	Polyvinylchloride, Unplasticised	RC	Reinforced Concrete
RC-PL	Reinforced Concrete Plastics Lined	S	Steel
SCL	Steel Cement (mortar) Lined	SCL IBL	Steel Cement Lined Internal Bitumen
SGW	Salt Glazed Ware	SPL	Steel Polymeric Lined
SS	Stainless Steel	STONE	Stone
VC	Vitrified Clay	WI	Wrought Iron
WS	Woodstave		

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

Further information and guidance is available in the 'Plumbing, building and developing' section of Sydney Water's website at www.sydneywater.com.au, where you will find the following under 'Before You Dig':

- Essential references
 - Avoid Damaging Water and Sewer Pipelines
 - Important Information about Before You Dig
 - Technical guidelines: Building over and adjacent to pipe assets
- See Also
 - Building over or next to assets, section of Sydney Water's website at www.sydneywater.com.au

Or call **13 20 92** for Customer Enquiries.

Note: The lodging of enquiries via www.byda.com.au will enable you to receive, via email, colour plans in PDF format 24 hours a day, 7 days a week.

This communication is confidential. If you are not the intended recipient, please destroy all copies immediately. Sydney Water Corporation prohibits unauthorised copying or distribution of this communication.

Important information about Before You Dig

The material provided or made available to you by Sydney Water (including on the Sydney Water website) in relation to your Before You Dig enquiry (Information) is provided on each of the following conditions, which you are taken to have accepted by using the Information:

- 1 The Information has been generated by an automated system based on the area highlighted in the “Locality Indication Only” window on your Confirmation Email. It is your responsibility to ensure that the dig site is properly defined when submitting your Before You Dig enquiry and, if the Information does not match the dig site, to resubmit your enquiry for the correct dig site.
- 2 Neither Sydney Water nor Before You Dig make any representation or give any guarantee, warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information. The Information, including Sydney Water plans and work-as-executed diagrams, amongst other things:
 - (a) may not show all existing structures, including Sydney Water’s pipelines, particularly in relation to newer developments and in relation to structures owned by parties who do not participate in the Before You Dig service;
 - (b) may be out of date and not show changes to surface levels, road alignments, fences, buildings and the like;
 - (c) is approximate only and is therefore not suitable for scaling purposes; and
 - (d) does not show locations of property services (often called house service lines) belonging to or servicing individual customers, which are usually connected to Sydney Water’s structures.
- 3 You are responsible for, amongst other things:
 - (a) exposing underground structures, including Sydney Water’s pipelines, by pot-holing using hand-held tools or vacuum techniques so as to determine the precise location and extent of structures before any mechanical means of excavation are used;
 - (b) the safe and proper excavation of and for underground works and structures, including having regard to the fact that asbestos cement pipelines, which can pose a risk to health, may form part of Sydney Water’s water and sewerage reticulation systems;
 - (c) protecting underground structures, including Sydney Water’s pipelines, from damage and interference;
 - (d) maintaining minimum clearances between Sydney Water’s structures and structures belonging to others;
 - (e) ensuring that backfilling of excavation work in the vicinity of Sydney Water’s structures complies with Sydney Water’s standards contained on its website or otherwise communicated to you;
 - (f) notifying Sydney Water immediately of any damage caused or threat of damage to Sydney Water’s structures;
 - (g) ensuring that plans are approved by Sydney Water (usually signified by stamping) prior to landscaping or building over or in the vicinity of any Sydney Water structure;
 - (h) ensuring that the Information is used only for the purposes for which Sydney Water and Before You Dig intended.

- 4 You acknowledge that you use the Information at your own risk. In consideration for the provision of the Before You Dig service and the Information by Sydney Water and Before You Dig, to the fullest extent permitted by law
 - (a) all conditions and guarantees concerning the Information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded and to the extent that those statutory guarantees cannot be excluded, the liability of Sydney Water and Before You Dig to you is limited to either of the following as nominated by Sydney Water in its discretion, which you agree is your only remedy:
 - (i) the supplying of the Information again; or
 - (ii) payment of the cost of having the Information supplied again;
 - (b) in no event will Sydney Water or Before You Dig be liable for, and you release Sydney Water and Before You Dig from, any Loss arising from or in connection with the Information, including the use of or inability to use the Information and delay in the provision of the Information:
 - (i) whether arising under statute or in contract, tort or any other legal doctrine, including any negligent act, omission or default (including willful default) by Sydney Water or Before You Dig; and
 - (ii) regardless of whether Sydney Water or Before You Dig are or ought to have been aware of, or advised of, the possibility of such loss, costs or damages;
 - (c) you will indemnify Sydney Water and Before You Dig against any Loss arising from or in connection with Sydney Water providing incorrect or incomplete information to you in connection with the Before You Dig service; and
 - (d) you assume all risks associated with the use of the Before You Dig and Sydney Water websites, including risk to your computer, software or data being damaged by any virus, and you release and discharge Sydney Water and Before You Dig from all Loss which might arise in respect of your use of the websites.
- 5 **“Sydney Water”** means Sydney Water Corporation and its employees, agents, representatives and contractors. **“Before You Dig”** means Before You Dig Australia and its employees, agents, representatives and contractors. References to **“you”** include references to your employees, agents, representatives, contractors and anyone else using the Information. References to **“Loss”** include any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages). To the extent of any inconsistency, the conditions in this document will prevail over any other information provided to you by Sydney Water and Before You Dig.

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

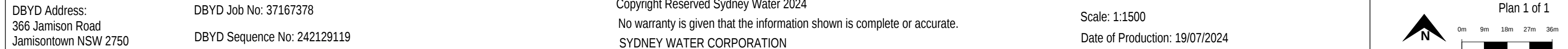
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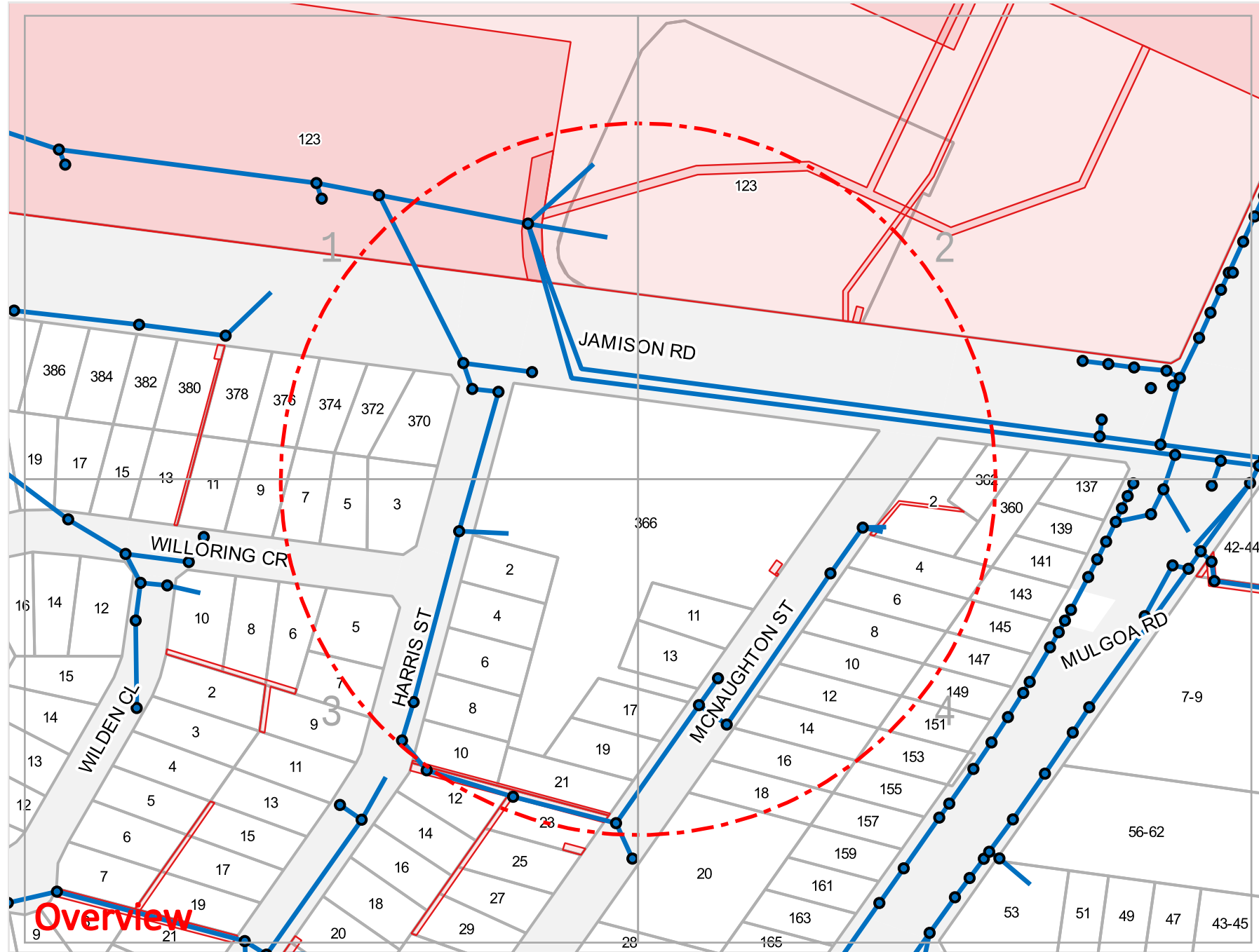
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Legend

- Stormwater Pit
- Stormwater Line
- Easement
- ⊕ Groundwater Monitoring Well (PSM)
- ⊕ Groundwater Monitoring Well (JB&G)



Scale: 1:2050
Expires: 16 Aug 2024

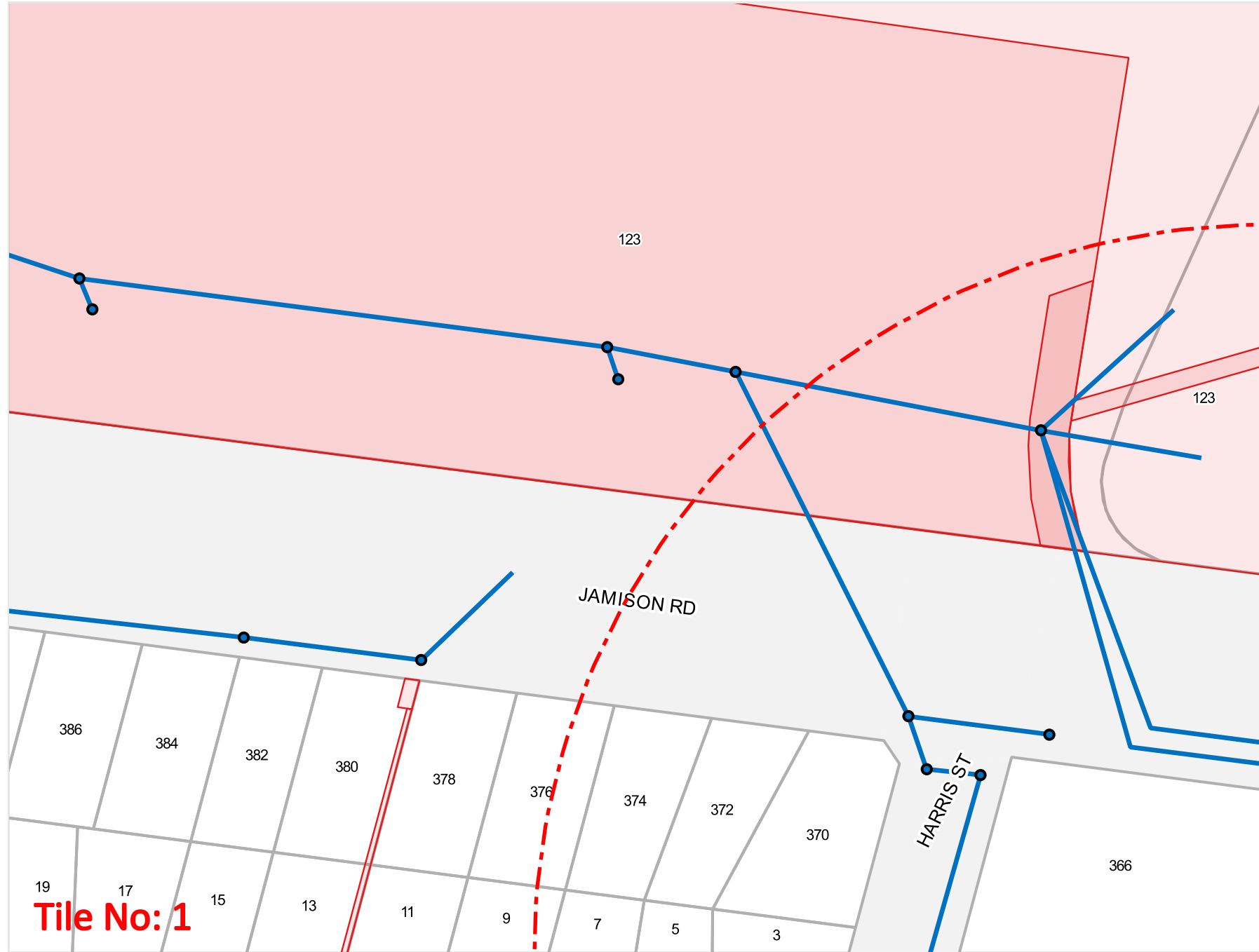
DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Penrith City Council nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information.

Penrith City Council does not warrant that the data does not contain errors and in no way shall be liable for any loss, damage or injury suffered by the user of this data or any other person or corporation consequent upon the existence of errors in the data.

The information presented may be subject to change and Penrith City Council is not responsible for providing updates to the user of this information.

The user acknowledges that the information is neither accurate nor complete. The information was collected from a wide variety of sources that were not subject to verification. Prior to undertaking any excavation in the area or commitment of significant resources on the project the location of Council's underground assets must be positively identified.

Use of such information is subject to and constitutes acceptance of these terms.



Legend

- Stormwater Pit
- Stormwater Line
- Easement
- ⊕ Groundwater Monitoring Well (PSM)
- ⊕ Groundwater Monitoring Well (JB&G)



Scale: 1:1000
Expires: 16 Aug 2024

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Tile No: 1



Legend

- Stormwater Pit
- Stormwater Line
- Easement
- ⊕ Groundwater Monitoring Well (PSM)
- ⊕ Groundwater Monitoring Well (JB&G)



Scale: 1:1000
Expires: 16 Aug 2024

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Tile No: 2



Legend

- Stormwater Pit
- Stormwater Line
- Easement
- Groundwater Monitoring Well (PSM)
- Groundwater Monitoring Well (JB&G)



Scale: 1:1000
Expires: 16 Aug 2024

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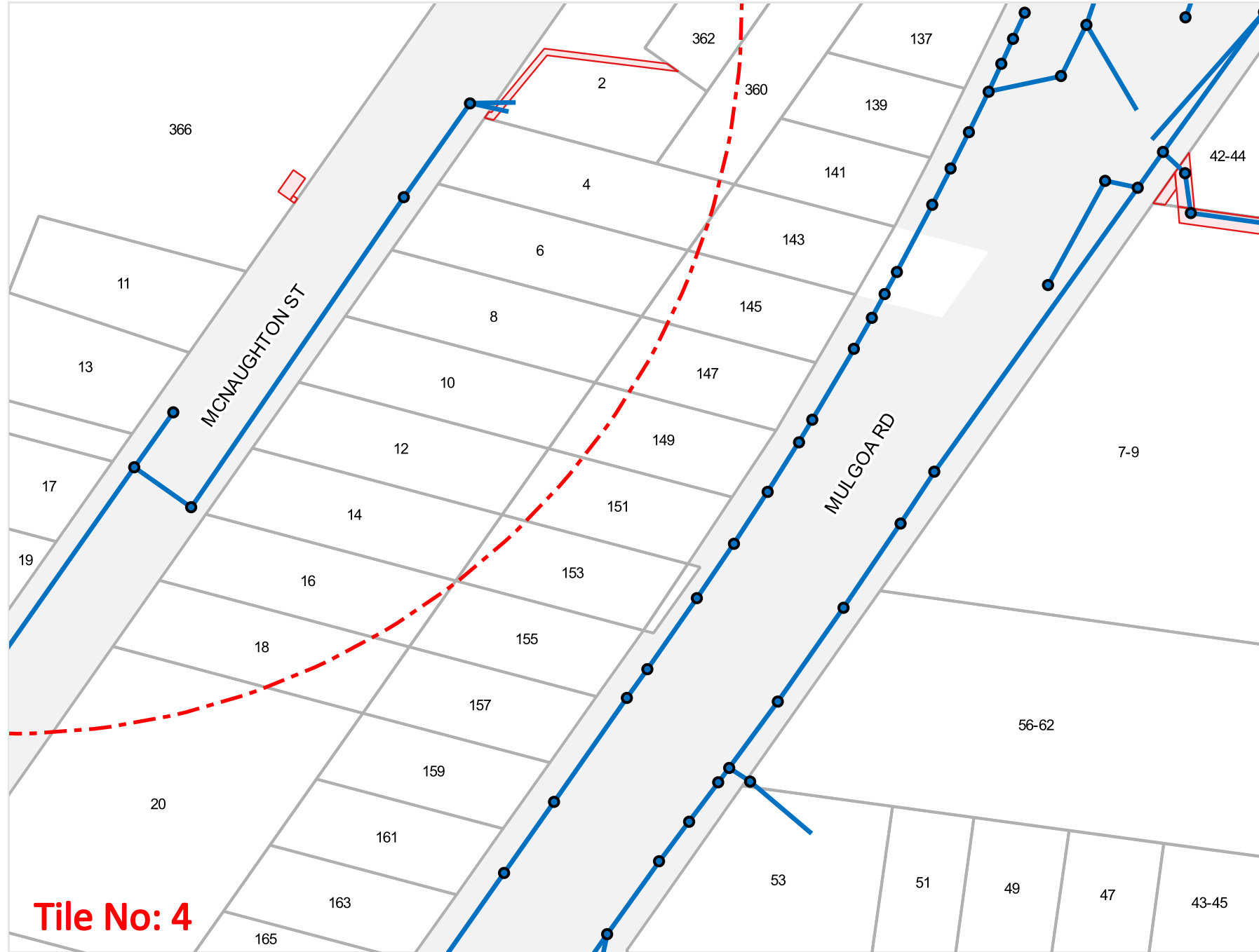
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Tile No: 3



Legend

- Stormwater Pit
- Stormwater Line
- Easement
- ⊕ Groundwater Monitoring Well (PSM)
- ⊕ Groundwater Monitoring Well (JB&G)



Scale: 1:1000
Expires: 16 Aug 2024

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ROADS ACT APPLICATION

ROAD OPENING

This form is to be filled out for excavation works or potholing investigations within the road reserves of local Council roads, regional roads, and the verges of State Roads.

SECTION A - APPLICANT DETAILS

First Name

Last Name

Company (if applicable)

Phone Number

Email Address

SECTION B - PROJECT DETAILS

Developer / Builder

Project Street Address

Suburb

SECTION C - WORK DETAILS

Works Location

Proposed Date & Times

Start Date

Finish Date

Land-use Zone

- ☐ Penrith CBD
☐ St Marys CBD

- ☐ Residential
☐ Industrial
☐ Rural

Reason for Road Opening

- ☐ Electrical Works
☐ Wastewater Mains
☐ Telecommunications
☐ Non-Destructive Digging
☐ New Infrastructure
☐ Sydney Metro Works
☐ Other:
- ☐ Water Mains
☐ Private Stormwater
☐ Gas

Impacted Council Assets

- ☐ Road Pavement
☐ Stormwater Pits
☐ Footpath
☐ Trees
☐ Street Furniture:
- ☐ Kerb & Gutter
☐ Nature Strip
☐ Paved Footpath
☐ Signage

Traffic Management

- ☐ Traffic management will be required. [TRRO Application](#) will need to be submitted.
- ☐ Pedestrian management will be required
- ☐ Works are only on the nature strip and will not affect road traffic

BYDA Job No.

A road opening permit is valid for two years.

Marked up location or engineering plans need to be provided to Council indicating work area.

Refer to Council's latest adopted Fees and Charges at www.penrith.city.

SECTION D - FEES & CHARGES SUMMARY

Financial Year

Section 138 Administration Fee

Road Opening Fee

Minor Works Bond

Major Works Bond

Approval Type Requested

☐ **DA Consent Condition or for Complying Developments**

Section 138 Roads Act approval sought for road openings related to DA or CDC development works will require the lodgement of an [Infrastructure Restoration Bond \(IRB\)](#) per development.

DA/CDC No.

IRB Receipt No.

☐ **Non-DA or Complying Development Related**

Section 138 Roads Act approval sought for road openings **NOT** related to DA or CDC development works will require the lodgement of a Road Opening Bond.

☐ **Maintenance of Existing Private Stormwater**

☐ **Minor Works Bond**

Installation of private utilities.

☐ **Major Works Bond**

For works that will cause potential damage to an area greater than 30m² of pavements and/or footpaths.

Road Opening Bond

Restorations

☐ **Council to Complete Permanent Restorations**

The Applicant will provide and maintain a temporary surface finish in asphalt upon completion of works and nominates for Council to scope, quote, invoice the Applicant and complete the required permanent restorations.

☐ **Applicant to Complete Permanent Restorations**

The Applicant will provide permanent restorations as per Council's [restoration requirements](#) upon completion of works and book concrete pre-pour inspections as required. The Applicant understands that a **12-month defects liability period** may apply and any defects found within this period will result in the reconstruction of the asset at no cost to Council. Bonds may be withheld during this time.

Approval cannot be obtained until all fees have been paid. Council will provide a payment form upon successful review of the application.

Total Fees Payable

SECTION E - ATTACHMENTS

The following attachments must be submitted with this application:

Traffic Control

☐ Temporary Road Reserve Occupancy [Application](#)

Construction Plans

☐ Engineering plans showing location and/or alignment of excavations

Dilapidation Survey

☐ Dilapidation report showing prior existing defects of pavements, kerb & gutters, footpaths etc.

Public Liability Insurance

☐ A copy of a valid \$20M Public Liability Insurance Certificate of Currency

SECTION F – APPLICANT DECLARATION & SIGNATURE

- ☐ I confirm that the information provided in this application is correct and I will advise Council immediately of any changes.
- ☐ I have read and acknowledged the [Section 138 Roads Act Application and Permit Conditions](#).
- ☐ I acknowledge that upon submission Council will endeavour to review this application within 10 business days but could take longer depending on complexity.
- ☐ I acknowledge that a separate payment form will be sent to me to pay for the permit fees.

Signature

Date

Click email button
below upon
completion.

CONTACT US

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