

Mr. Elias, Mr. Maltese and Mr. Petro
C/- AE Design Partnership



Amended Service Utility Infrastructure Assessment

Proposed Commercial Subdivision

1111 – 1141 Elizabeth Drive, Cecil Park,
NSW 2178

ENVIRONMENTAL



WATER



WASTEWATER



GEOTECHNICAL



CIVIL



PROJECT
MANAGEMENT



P1706121JR04V04
September 2020

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All enquiries regarding this project are to be directed to the Project Manager.

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1 Introduction

1.1 Overview

This services assessment is prepared by Martens and Associates for the Client to support a proposed development application ("DA") to Fairfield City Council ("FCC") for a commercial subdivision located at 1111 – 1141 Elizabeth Drive, Cecil Park, NSW.

This report has been updated since its original issue to reflect a revised concept layout consisting of a reduction in the number of lots from 14 to 11, deletion of the vegetation reserve to the northwest and deceleration lane in the road reserve, and a reconsidered internal access road. The concept layout has been amended as a result of Transport for NSW's compulsory acquisition of a portion of the site for the proposed M12 motorway.

1.2 Objectives

Objectives of the assessment include:

- To provide details of existing service utilities infrastructure servicing the site and local area; and,
- To determine likely requirements for any upgrades of service utilities to supply the proposed commercial development.

1.3 Project Scope

Scope of works includes:

- Review of existing services infrastructure servicing the site.
- Completion of an underground services search.
- Review of water and sewerage requirements for the site.
- Liaison with relevant service providers to determine the availability of services and likely requirements for upgrades.
- Identify the opportunities, constraints, risks and other issues associated with servicing the proposed development.

2 Site Description

2.1 Summary

A summarised site description is provided in Table 1. An amended site plan is provided in Attachment A.

Table 1: Summarised site description.

Item	Description / Detail
Site address and Lot/DP	1111-1141 Elizabeth Drive, Cecil Park, NSW (Lot 2 Sec 4 DP 2954).
Approximate area ²	7.38 ha (Project Surveyors, 2017)
Local Government Area (LGA) ¹	Fairfield City Council (FCC).
Current zoning and land use	The site is currently zoned as part of the Western Sydney Parklands area.
Proposed land use	Commercial subdivision.
Site description	Rural residential lot with cleared pastoral land, dwelling and multiple sheds and stockpiles.
Surrounding land uses	Low density residential to the north, cleared pastoral land and tree cover to the east and south, new housing development being constructed to the west.
Topography	Located within slightly undulating terrain. Site elevation ranges from approximately 117 m AHD at street level on the south of the site to approximately 100 m AHD at the northern site boundary (Project Surveyors, 2017).
Expected geology	The Penrith 1:100,000 Geological Series Sheet 9030 (1991) describes site geology as Bringelly Shale consisting of shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff. The NSW Environment and Heritage eSPADE website identifies the site as having soils of the Luddenham variety consisting of shallow dark podzolic soils or massive earthy clays on crests; moderately deep red podzolic soils on upper slopes; moderately deep yellow podzolic soils and prairie soils on lower slopes and drainage lines.
Environmental receptors	Site drainage is via overland flow to a tributary of Ropes Creek along the north western site boundary. Ropes Creek is located approximately 3 km to the east of the site.

3 Service Utilities Assessment

3.1 Dial Before You Dig Enquiry

3.1.1 First Dial Before You Dig

A 'Dial-before-you-Dig (DBYD) enquiry was lodged for the site on 12 January, 2018 and responses for existing underground services were received from the following service providers:

- Sydney Water (water and sewerage);
- Jemena (gas);
- NBN Company (optic fibre / telecommunications);
- Optus (telecommunications);
- Endeavour Energy (electricity);

3.1.2 Second Dial Before You Dig

A second DBYD inquiry was lodged on 28 August 2020 to confirm any changes to services in light of the revised concept layout. The results are provided in Table 2 below.

Table 2: Second DBYD search conclusions.

Service	Response
Liverpool Council.	No change.
Pipe Networks / TPG.	No change.
Sydney Water.	No change.
RMS/RTA.	No change.
Uecom.	No change.
Optus.	No change.
Endeavour Energy.	No change.
NBN.	Assets augmented along the lots to the northwest, and at the Cecil park intersection with Elizabeth Drive.
Jemena.	No change.

3.2 Potable Water

3.2.1 Sydney Water Existing Assets and Connection Availability

The DBYD results indicate that Sydney Water has existing 150 mm diameter CICL water mains located adjacent to the site in the Elizabeth Drive and Cecil Road reserves.

A request for a Notice of Requirements from Sydney Water has been previously lodged and a response received noting that the land requires to be rezoned before Sydney Water can assess requirements. Nevertheless, the assessment is expected to confirm the availability of connection to water mains adjacent to the site, sufficient to supply potable water to all new lots created as part of the subdivision.

3.2.2 Preliminary Water Demand

A preliminary assessment of likely potable water demands for the site has been completed using the Sydney Water (2012) edition of the Water Services of Australia Water Supply Code of Australia (WSA 03 – 2011-3.1. A summary of preliminary water demands for the development is provided in Table 3. Assumptions used in this assessment included:

- Suburban ‘commercial’ rates are assumed for the subdivision.
- No water recycling / non-potable water supply is assumed to be available to the subdivision.
- As for the wastewater generation assessment (Martens report P1706121JR03V05, August 2020), the total site developable area (net area) is taken to be 35% of the total proposed lot areas.

Table 3: Summary of preliminary water demands from the development.

Intended Use	Classification	Lot	Max demand rate (kL/net ha/ day)	Lot Size (m ²) ²	Developed Footprint (DF) ³	Max day demand ⁴ (kL)	Average day demand ⁵ (kL)	Max hour demand ⁶ (L/s)
Commercial	Suburban commercial	1	41	2,511	878.85	3.60	1.80	0.08
		2	41	2,511	878.85	3.60	1.80	0.08
		3	41	3,879	1357.65	5.57	2.78	0.13
		4	41	3,727	1304.45	5.35	2.67	0.12
		5	41	6,811	2383.85	9.77	4.89	0.23

Intended Use	Classification	Lot	Max demand rate (kL/net ha/ day)	Lot Size (m ²) ²	Developed Footprint (DF) ³	Max day demand ⁴ (kL)	Average day demand ⁵ (kL)	Max hour demand ⁶ (L/s)
		6	41	2,831	990.85	4.06	2.03	0.09
		7	41	2,087	730.45	2.99	1.50	0.07
		8	41	2,087	730.45	2.99	1.50	0.07
		9	41	2,087	730.45	2.99	1.50	0.07
		10	41	5,084	1779.4	7.30	3.65	0.17
		11	41	7,767	2718.45	11.15	5.57	0.26
		Site Total	41	41,382	14,483.70	59.38	29.69	1.37

Notes:

¹ Based on Sydney Water edition of Water Services Association of Australia Water Code (2012) guidelines.

² As per proposed subdivision layout – drawing number DA04, 30/07/18 (AE Design Partnership).

³ 35 % of total site area.

⁴ (DF/10,000) x 41

⁵ Based on MDD x 0.5 for ratio max day / average day.

⁶ Based on MDD x 2.0 for ratio max hour / max day and converted to L/s.

By comparison to the above, the calculated average wastewater generation rate per day (MA report P1706121JR03V05 August 2020) is approximately 17.1 kL/day, or approximately 58% of average daily potable water demand at the site.

3.3 Sewerage

3.3.1 Existing Sewerage Network

At present, the site has no access to a Sydney Water reticulated sewer service. Review of the plans provided as part of the DBYD review showed that the nearest reticulated sewerage network is located at the eastern end of Lot 5045 DP 857382, being 33 Isabel Street, Cecil Hills, NSW, approximately 800 m to the south and east of the site. It is not known if this sewer has sufficient capacity to convey expected flows from the site, nor if the system is appropriately designed to convey flows from a commercial subdivision (being within an existing residential subdivision and likely designed to convey typical domestic sewage).

The nearest trunk sewer drain is expected to be in the vicinity of Sandringham Drive, Cecil Hills approximately 1.7 km to the east and south of the site. Any connection to the existing sewerage network servicing

Cecil Hills would require a rising main to traverse both Elizabeth Drive and the M7 Motorway road corridors.

It is likely that construction of such a main would not be feasible at this time and that connection to Sydney Water's sewerage network will likely require the construction of major infrastructure works on the western side of the M7 Motorway prior to reticulated sewer becoming available to the site.

Recommendations for onsite management of site wastewater are provided in the amended Martens onsite wastewater management assessment report P1706121JR03V05 (August 2020). These consist of individual pump-out systems on each lot, to be decommissioned once Sydney Water sewer becomes available to the site, which is likely to be of the order of 2 – 4 years' time (2020 – 2022 current estimate).

3.4 Gas

Review of the DBYD plans provided by Jemena show that there is currently a 150 mm secondary gas main located on the northern side of the Elizabeth Road reserve and a 110 mm supply gas main located on the western side of the Cecil Road reserve.

Correspondence with Jemena's new connections team has indicated that the site is likely to be able to be supplied with reticulated gas, subject to a detailed design and review being conducted at the detailed design stage of the development. A Clearance Certificate is being sought from Jemena to that effect.

Jemena have also indicated that there is a major gas supply main within the site, adjacent to the south-eastern boundary. Jemena maintains an easement over this main which is approximately 25 m wide and would need to be confirmed by title search.

Jemena have indicated that construction in the vicinity of the major gas supply main will be subject to their '*Guideline to Designing, Constructing and Operating around existing AS2885 Natural Gas Pipelines*' manual. Jemena have advised that their preference for the use of their easement should remain as grassed / low vegetation landscaping. Jemena have also advised that any excavation on the site and / or proposed below ground structures (most notably petrol / gas storages) will be subject to detailed review by their assets management team to ensure that the gas supply main is suitably protected from excavation, sudden decompression and / or explosion.

Jemena correspondence from the second DBYD search indicated that development in the area of the high pressure gas transmission pipeline may be referred to Jemena for comment by the Council. Further, any

works near the pipeline may require the preparation of a Safety Management Study. The correspondence is provided at Attachment B.

3.5 National Broadband Network

Review of the DBYD plans shows that there is an in-service cable within the Cecil Road reserve adjacent to the site. Correspondence with NBN has indicated that the NBN will be connectable to the subdivision, subject to detailed design and their assessment of serviceability and infrastructure upgrade requirements at the subdivision at Construction Certificate stage of the development.

3.6 Telecommunications

Under Telstra's Universal Services Obligation incorporated into the Telecommunications (Consumer Protection and Service Standards) Act (1999), Telstra is legally obligated to provide standard telephone services, payphones and prescribed carriage services to all businesses within Australia (Telstra, 2005).

A detailed design of the proposed subdivision will need to be submitted to Telstra's 'Smart Community' development assessment team to determine the minimum upgrades and / or new assets required to adequately service the site.

Review of the DBYD plans also showed the existence of an Optus cable within the Cecil Road reserve adjacent to the site. It is not known if this cable would be sufficient to supply telecommunications to the site in place of Telstra's supply.

3.7 Electricity Supply

Review of the DBYD plans showed that Endeavour Energy has both high voltage (HV) and low voltage (LV) supply cables in Cecil Road and Elizabeth Drive road reserves. Correspondence received from Endeavour Energy includes a supply offer (see Attachment B), to the effect that electricity will be available to the subdivision, subject to a detailed design of the electricity supply network within the subdivision, completed by a suitably qualified Level 3 Accredited Service Provider (ASP).

Correspondence indicates that the subdivision shall require both HV and LV underground service mains, padmount electrical substation (including transformers) and connection assets to each lot.

3.8 Additional Service Utilities

Additional service utilities and infrastructure that are likely to be available to the subdivision, subject to detailed design, include:

- Pedestrian and vehicle access (footpaths, kerb crossings, etc.) which will be constructed by the developer and dedicated to Council; and
- Stormwater drainage assets (pit and pipe network) for the purposes of draining stormwater generated by the subdivision via appropriately designed stormwater control devices to appropriately designed outlet / discharge points.

4 Recommendations

4.1 Availability of Services

A detailed review of the availability of utility services has been completed for the site. It shows that, subject to site rezoning and detailed design of the subdivision, utility services shall be generally available to individual lots within the subdivision, with the notable exception of reticulated sewerage services by Sydney Water. It is unclear at the time of writing when such a sewerage service shall be available to the area.

4.2 Recommended Actions at Detailed Design Stage of Subdivision

We recommend that the following be undertaken at detailed design stage of the development:

- Engagement of a Water Servicing Coordinator to design the internal water supply network for the subdivision and to apply for Section 73 Compliance Certificate from Sydney Water.
- Engagement of a Level 3 ASP electrical designer to design the internal electricity supply system for the subdivision and to liaise with and obtain relevant approvals from Endeavour Energy.
- Engagement of a suitably qualified gas network designer to design the new gas supply network within the subdivision and to liaise with Jemena with respect to minimum supply requirements and required approvals.
- Submission of proposed plans to Jemena for analyses by their assets management team with respect to the proposed layout and land use at the site, as it pertains to potential impacts on the major gas supply main on the site.
- Engagement of a suitably qualified person or person(s) to design the telecommunications network (including NBN connection) to suit the requirements of Telstra and NBN Co.
- Further correspondence with Sydney Water about the likely timeframe in which reticulated sewerage services will be available to the site. This may require the services of a Water Servicing Coordinator to obtain this information from Sydney Water's Urban Growth Strategy and Planning department.

5 References

<https://www.1100.com.au>

<http://www.environment.nsw.gov.au/eSpade2WebApp>

Bannerman, S.M. and Hazelton, P.A. (1989) *Soil Landscapes of the Penrith 1:100,000 Sheet*

Sydney Water (2012) *Water Services of Australia - Water Supply Code of Australia WSA 03 – 2011-3.1 Part 1: Planning and Design.*

Telstra (2005) *Telstra's Universal Service Obligation – Policy Statement.*

D





24 January 2018

Endeavour Energy Ref: UCS0510 – 2018/00089/001
Customer Ref: P1706121

Martens & Associates
Suite 201, 20 George Street
HORNSBY NSW 2077

Attention: Michael Dumas

CONNECTION OFFER – STANDARD CONNECTION SERVICE

UCS0510 – LOT 2, DP 2954, Land Subdivision Application: 1141 Elizabeth Drive, CECIL PARK

Thank you for your application providing information of the proposed development at the above location. Your application has been registered under the above reference number. Please quote this reference number on all future correspondence.

This connection offer is made in accordance with the Terms and Conditions of the Model Standing Offer for a Standard Connection Service available on our website. To accept this offer, please complete the enclosed Notice of Advice form and obtain your Level 3 Accredited Service Provider (ASP) signature on the form prior to returning it to Endeavour Energy.

Endeavour Energy has completed a preliminary desk top assessment of the information provided in your application and issued an enclosed Supply Offer. Your next step is to obtain the services of a Level 3 ASP to prepare and provide an electrical design to Endeavour Energy in the form of a Proposed Method of Supply. This activity is customer funded contestable work and you will need to pay for it. An estimate of fees related to review of your design is attached.

A list of the Accredited Service Providers is available at the NSW Trade and Investment website: <http://www.energy.nsw.gov.au/electricity/network-connections/contestable> or can be obtained via phone 13 77 88.

Please note under the National Electricity Rules (NER) customer may choose to enter into a negotiated agreement. A negotiation framework describing this process is available on our website.

Should you have any enquiries regarding your application please contact the undersigned.

Yours faithfully,

Daniel Gonzaga
Contestable Works Engineer
Ph: 9853 7846
Email: cwtech@endeavourenergy.com.au

24 January 2018

Endeavour Energy Ref: UCS0510 – 2018/00089/001

Endeavour Energy
PO Box 811
Seven Hills NSW 1730
cwadmin@endeavourenergy.com.au

Attention: Contestable Works Administrator

NOTICE OF ADVICE

**APPOINTMENT OF ACCREDITED DESIGNER FOR THE PROPOSED DEVELOPMENT AT:
LOT 2, DP 2954, 1141 ELIZABETH DRIVE, CECIL PARK**

*** Please complete and return when a Level 3 Service Provider has been nominated***

Please accept this letter as notification that I intend to proceed with the development described above. I own or am developing the land and works on the land, (and/or where relevant on public land). I intend to supply this development to Endeavour Energy requirements.

By signing this Notice of Advice I am accepting the Terms and Conditions of Endeavour Energy's Model Standing Offer for a Standard Connection Service.

- Electricity Supply to Developments.

The Level 3 Service Provider appointed is:.....

The Fees will be Paid to Endeavour Energy by:

.....
Signature of Level 3 ASP

.....
Name of Level 3 ASP

.....
Signature of Applicant/ Applicant's Representative

.....
Name of Applicant/ Applicant's Representative

.....
Date

.....
Company Name

The signatory warrants that they are authorised to execute this Application.

APPLICATION NO: UCS0510

DATE: 24 January 2018

SUBJECT: SUPPLY OFFER FOR
1141 Elizabeth Drive, CECIL PARK

Endeavour Energy has carried out a desk top assessment and has prepared the attached Supply Offer for this development.

The supply offer will assist your Level 3 ASP to develop the most efficient solution to meet your needs whilst complying with Endeavour Energy's standards and with the Terms and Conditions of the Model Standing Offer for a Standard Connection Service. Please find below a list of some requirements that will need to be addressed by your nominated Level 3 ASP.

- Field visit to verify physical details
- Trench length
- Cable length
- Length of cable using existing ducts
- Length of new ducts required to be installed
- Substation location shown on a preliminary sketch and HV switchgear numbers
- Types and number of poles to be replaced or installed
- Complexity of trenching (ie rock, under-bore, commercial area etc)
- Earthing requirements and complexity
- Overhead construction and isolation point requirements
- Asset Valuation form must be completed including any extraordinary costing requirements
- Environmental issues addressed in a fully documented Environmental Assessment
- Generation requirements
- Rail Crossing requirements

A sketch of the proposed design utilising the GIS as a base must be returned with the above information.

This Supply Offer is part of the Connection Offer for a Standard Connection Service and is valid for three (3) months from the date of issue.

Where this Connection Offer has lapsed, you or your Level 3 ASP must contact Endeavour Energy with the request to extend the Connection Offer. Endeavour Energy will assess your request and will inform you of the outcome. It must be recognised that the network is being constantly extended/augmented as new customers get connected. This means that for your Connection Offer to be extended, your Supply Offer may require alteration. If this is the case, additional fees to cover administrative costs may apply.

The fees applicable to this phase of the project will need to be paid prior to design certification and are outlined in the Network Price List available on the Endeavour Energy website.

24 January 2018

Endeavour Energy Ref: UCS0510 – 2018/00089/001

SUPPLY OFFER

(Based on a desktop assessment)

Development Details & Applicant's Assessed Load:

Application made for 14 commercial lots subdivision on **LOT 2, DP 2954, located at 1141 Elizabeth Drive, CECIL PARK**

Proposed 9 lots are less than 3500sqm and Proposed 5 lots are more than 3500sqm.

Endeavour Energy Assessed Load:

As per MDI0028, for lot sizes less than 3500sqm, the design must include underground HV reticulation, substation (including transformers) and LV mains through the subdivision and connection assets for individual lots to make supply equivalent to 40VA per sqm of lot size available to each lot.

For lots greater than 3500sqm, the design must include the HV reticulation through the subdivision, footpath, easement etc. to enable the installation of substation as required.

Development & Site Plans received/not received:

Proposed subdivision layout received with application form

HV/LV Connection Point & Connection Asset Requirements:

Developer will be required to engage the services of ASP Level 3 to investigate and propose a method of supply that will comply with EE standards and policies

There is existing HV and LV network along Cecil Road and Elizabeth Drive. Designer to investigate the establishment of new padmount substation and reticulate the HV and LV network to provide supply for each lot.

ASP Level 3 to submit a method of supply for assessment and approval

24 January 2018

Endeavour Energy Ref: UCS0510 – 2018/00089/001

Initial Funding Arrangements

Endeavour Energy Supplied Materials:

Nil

Endeavour Energy Funded and Constructed:

Nil

**Endeavour Energy Funded and Level1 ASP Constructed – Reimbursement
Paid by Endeavour Energy**

TBA

Reimbursement to be paid to Endeavour Energy by Customer:

Nil

Customer Funded Monopoly Services:

Network switching, commissioning, contractor inspection, ancillary fees, etc.

Customer Funded Contestable Works:

All other works required

ANCILLARY FEE ESTIMATE

(for assessment of the Proposed Method of Supply and approval of the Design)



CAP No. : UCS0510 File No: 2018/00089/001

Proposed Location: Lot 2, DP 2954, 1141 Elizabeth Drive
CECIL PARK

Detailed below is the **estimate** of the proportion of applicable Ancillary Network Services Fees (GST Inclusive) related to design assessment for your information only. The final fees for this phase of the project will be sent to you with a Design Brief. Ancillary Network Services Fees will also apply for the construction and connection phase of the project (e.g., site establishment fee). These fees will be conveyed to you after the receipt of a signed Letter of Intent indicating that you will proceed with the construction phase of the project.

Administration Fee	24-01-2018	\$319.67
Design Certification Fee	24-01-2018	\$683.51
Design Information Fee	24-01-2018	\$1367.08
Standard Connection Offer Fee	24-01-2018	\$274.06
Estimate Total (inc GST)		\$2644.32

Where Endeavour Energy assets may need to be placed on private property, property easements will be required. Urgent action should be taken to create easements so that timely acquisition and registration with the Land and Property Information (NSW) can be completed.

Endeavour Energy will accept a property tenure bond while the property owner is in the process of creating the easement. The property tenure bond will be returned after the easement has been registered.

Please do not make any fee payment at this time.

Once the design fee amount has been finalised Endeavour Energy will send a request for the fees and property tenure bond payment (if required) to your nominated Level 3 Accredited Service Provider.

WARNING

- All electrical apparatus shall be regarded as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.
- 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 printed and made available at the worksite where excavation is to be undertaken. Plans must be reviewed and understood by the crew on site prior to commencing excavation.

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.

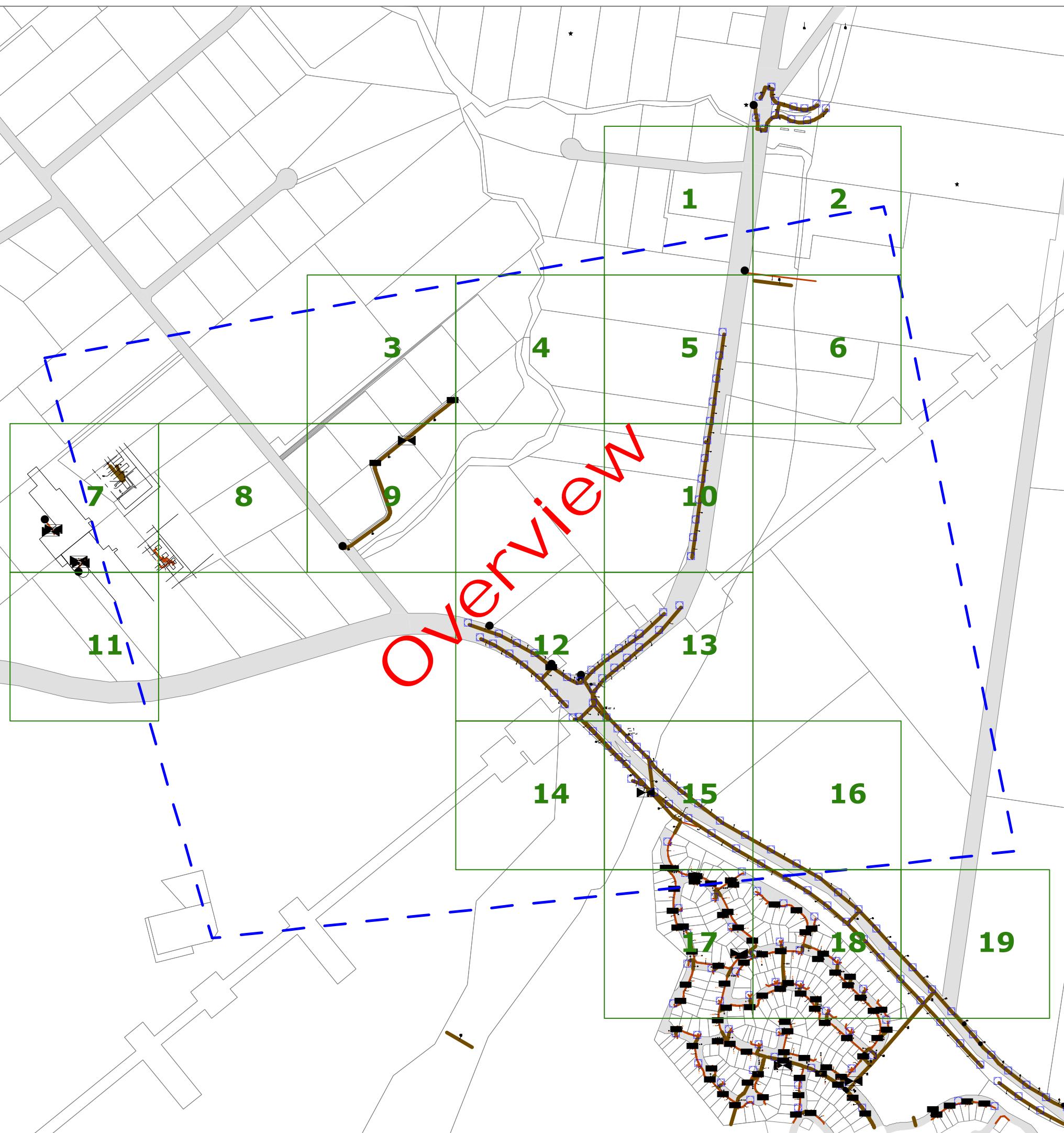
LEGEND

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

N

NOT TO SCALE

DBYD Sequence No.:	101236020
Issued Date:	28/08/2020



WARNING

- All electrical apparatus shall be regarded as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.
- 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 printed and made available at the worksite where excavation is to be undertaken. Plans must be reviewed and understood by the crew on site prior to commencing excavation.

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

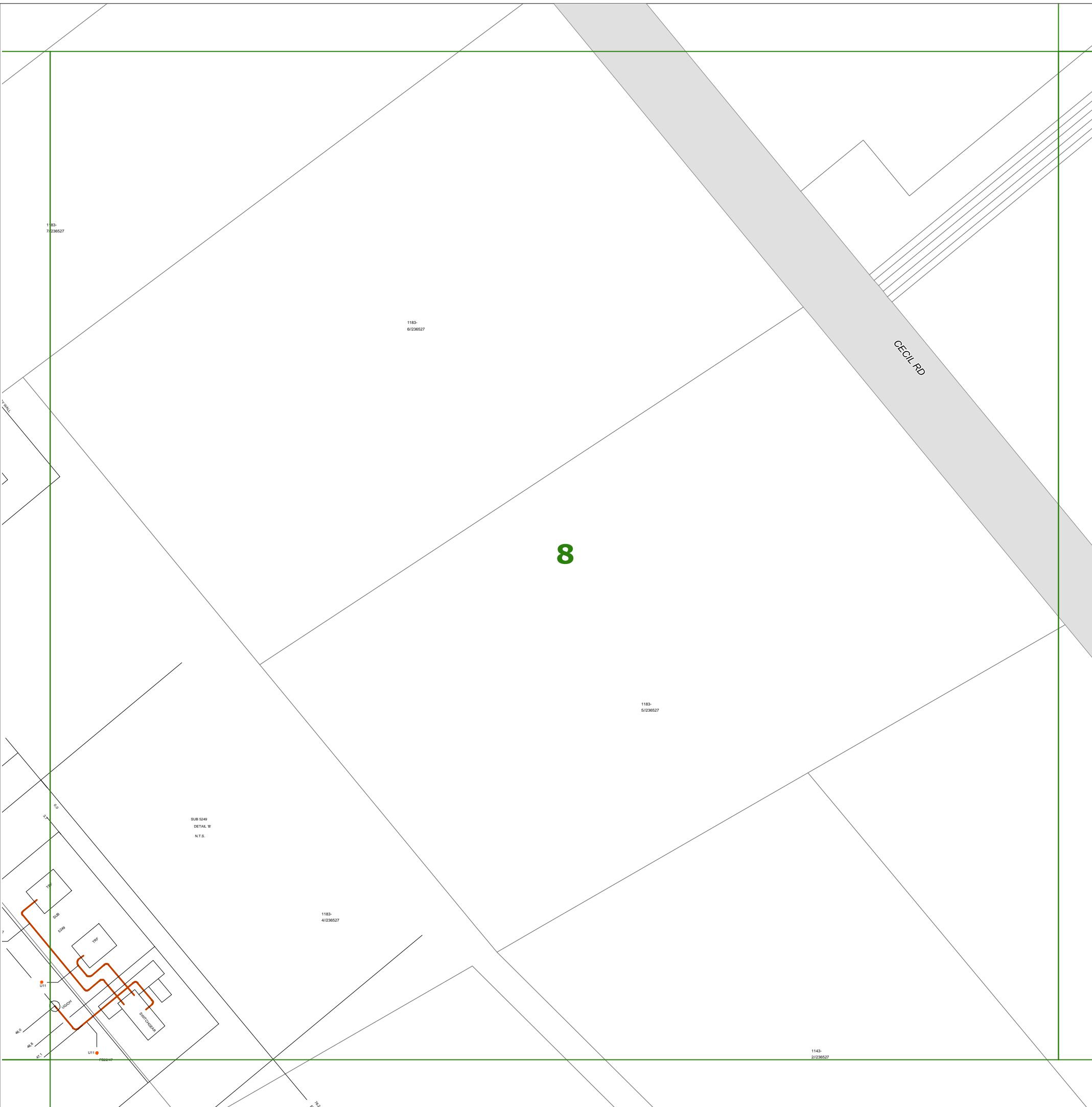
- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a 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.

LEGEND

	or		Street light column
	or		Overground pillar (O.G.Box)


8




Endeavour Energy

WARNING

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.
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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.

LEGEND

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

N
↑

NOT TO SCALE

DBYD Sequence No.:	101236020
Issued Date:	28/08/2020

Cadastre: © Land and Property Information 2015, 2016



Indicative Plans

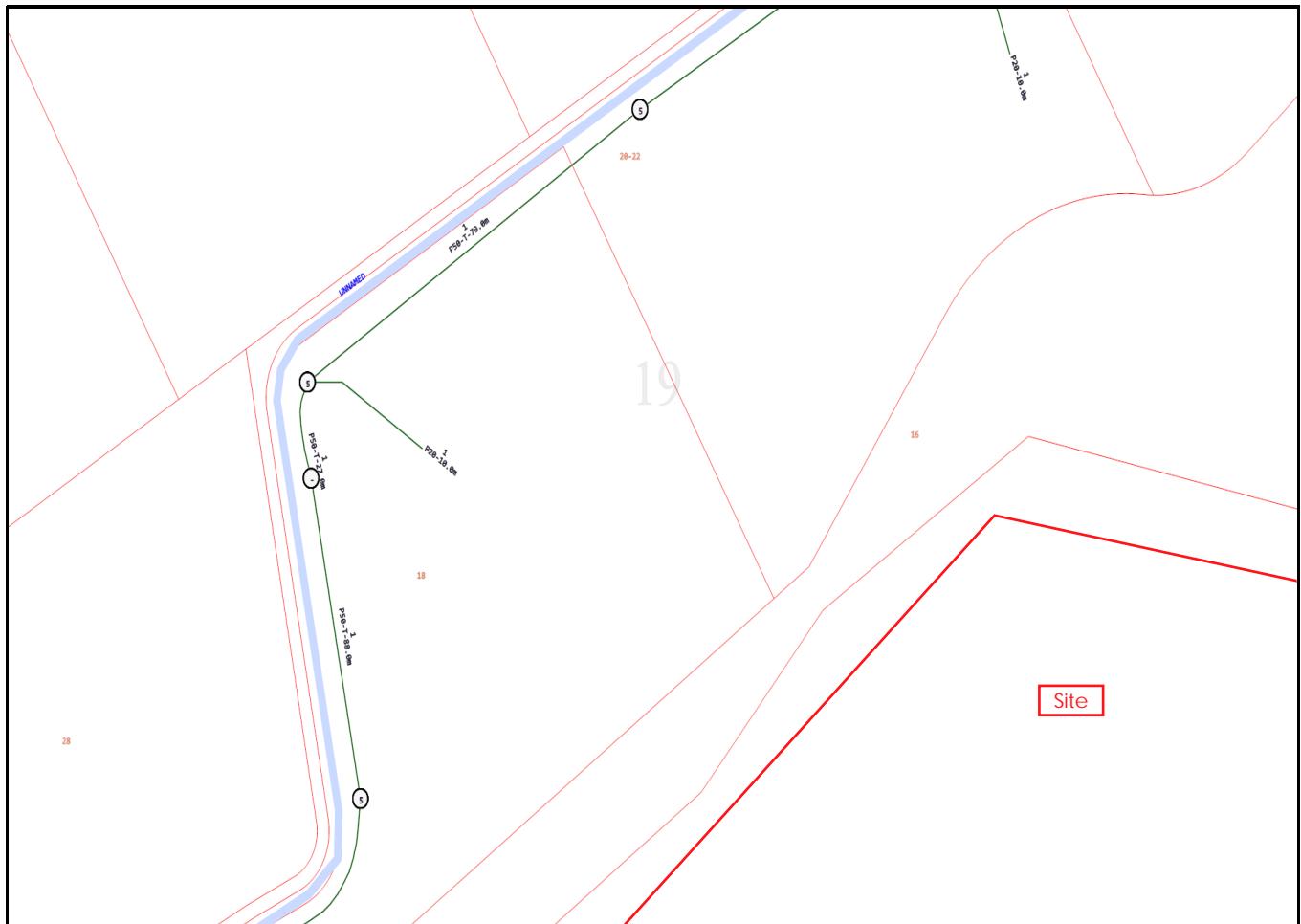
Issue Date:	28/08/2020	 DIAL BEFORE YOU DIG www.1100.com.au
Location:	1111 Elizabeth Drive , Cecil Park , NSW , 2178	

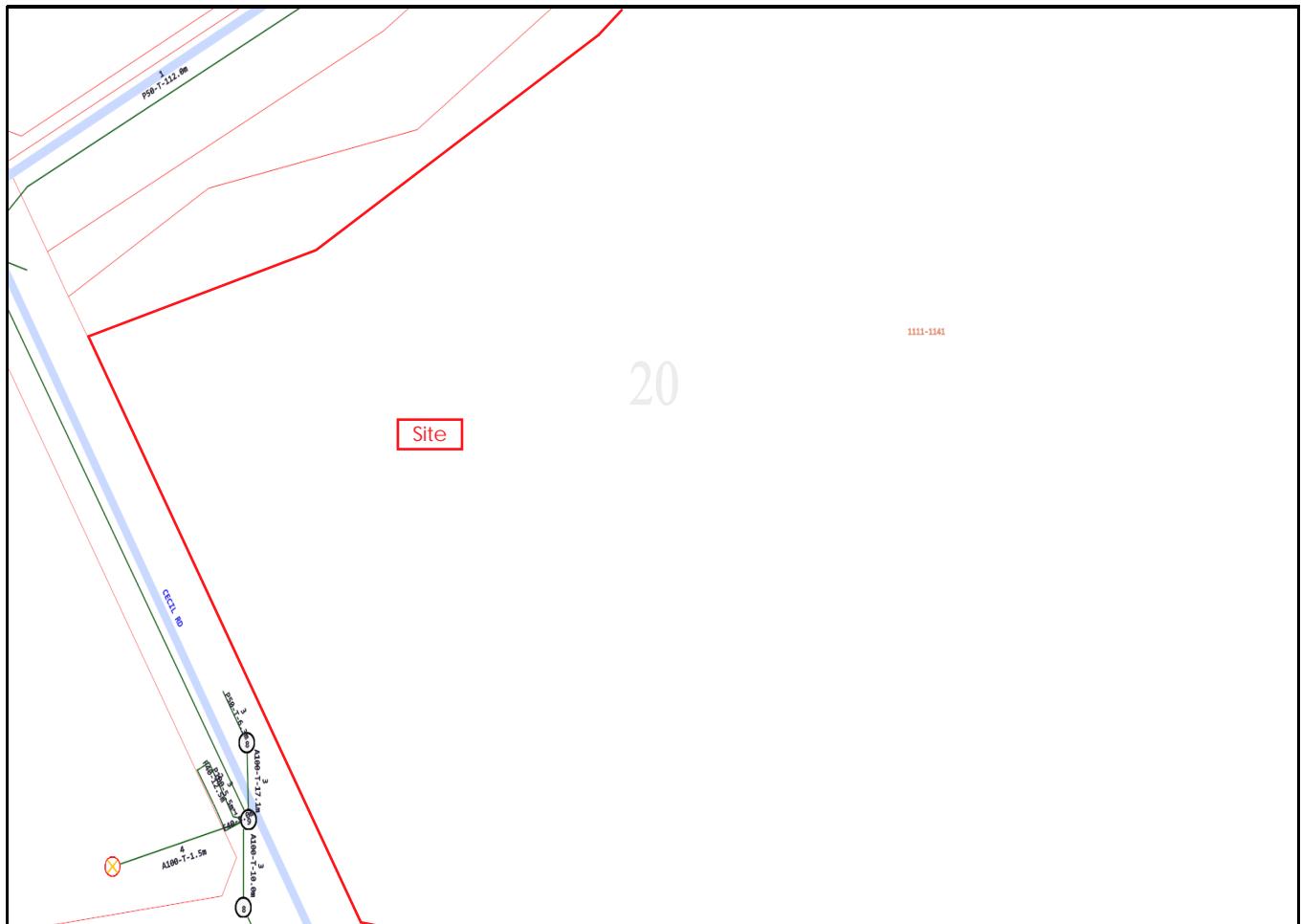
2	10	18	26	34	42
3	11	19	27	35	43
4	12	20	28	36	44
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8	16	24	32	40	48

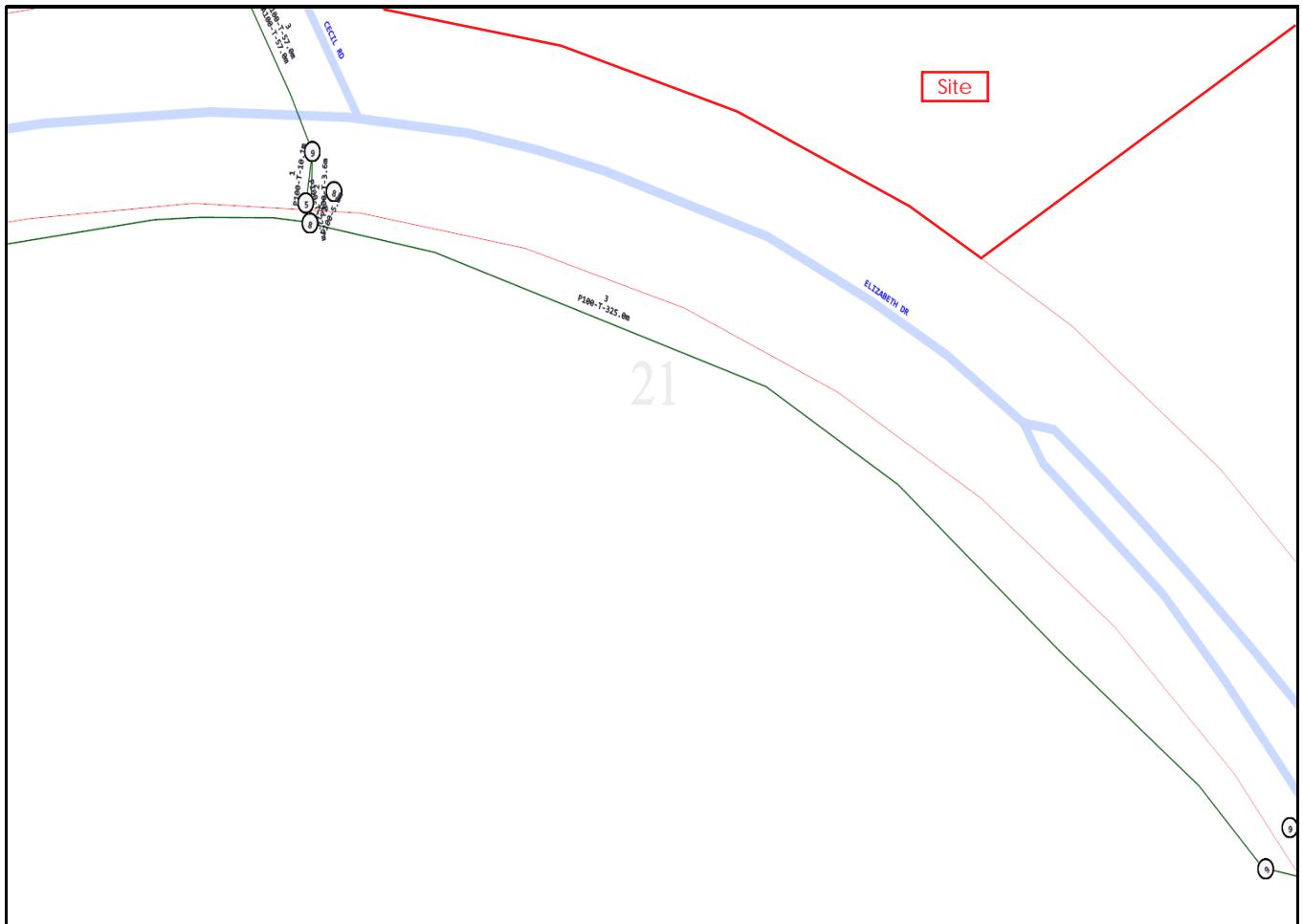


LEGEND

	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.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	 Meters 1:2000 1 cm equals 20 m





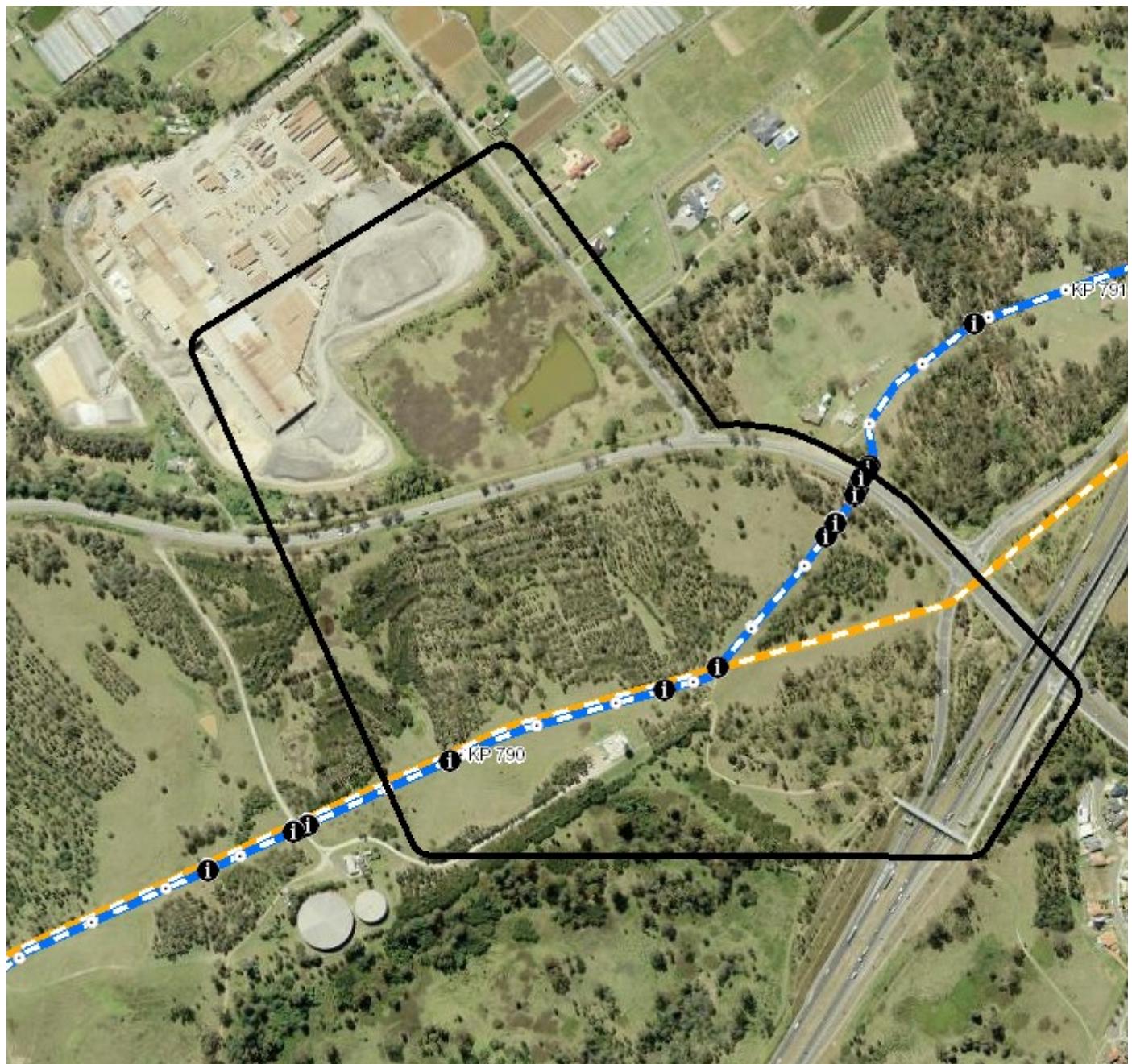


Jason Watkins

From: Gavin Sherriff <Gavin.Sherriff@jemena.com.au>
Sent: Tuesday, 1 September 2020 4:45 PM
To: Jason Watkins
Cc: Luke Duncan
Subject: DBYD Request 101239052 - 1111 Elizabeth Drive Cecil Park NSW - Jemena Gas Pipelines

Hi Jason

As per the emails below – please refer to the original email
Please feel free to call me to discuss



Thanks

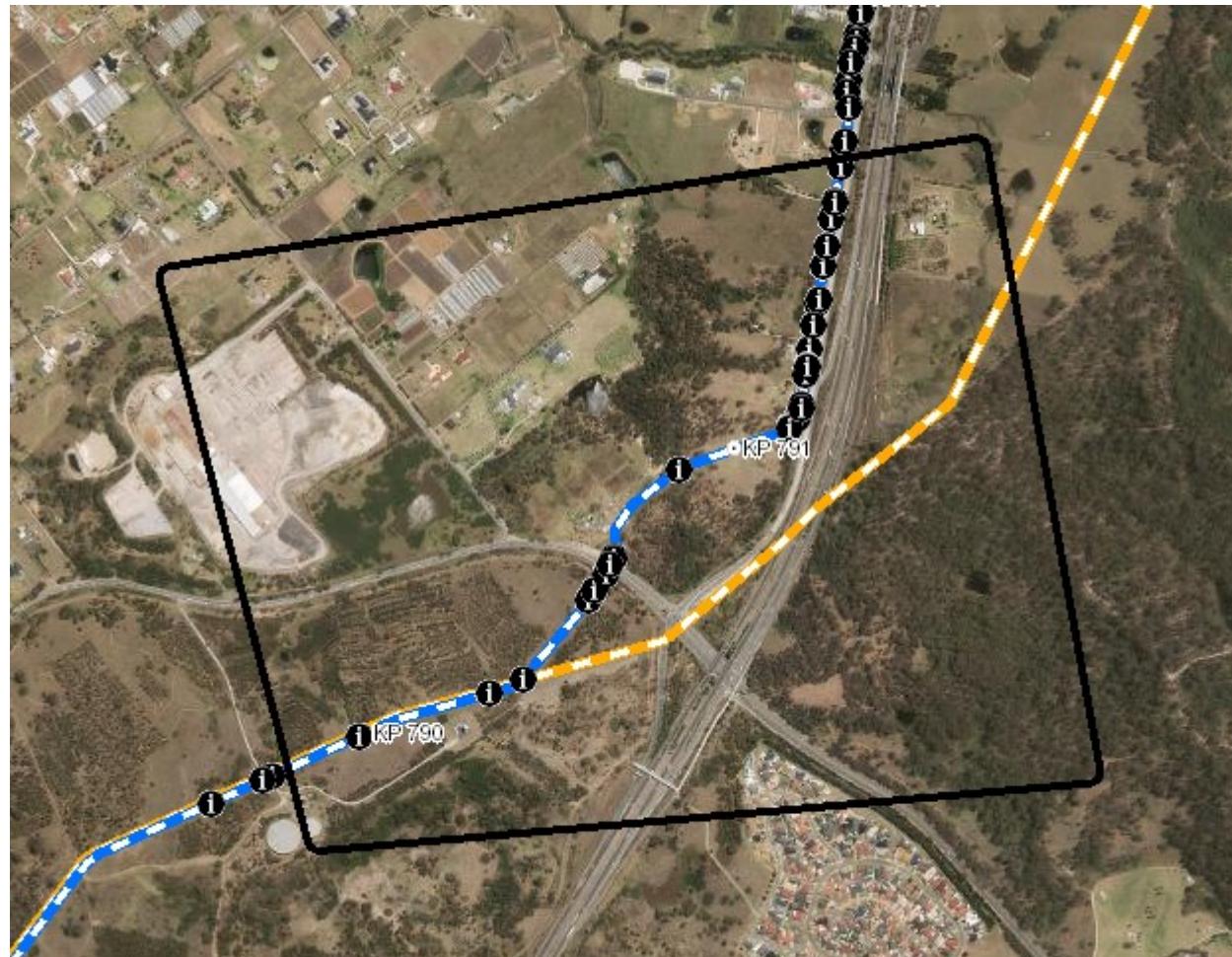


From: Gavin Sherriff
Sent: Tuesday, 1 September 2020 4:42 PM
To: jwatkins@martens.com.au
Cc: Luke Duncan <luke.duncan@jemena.com.au>
Subject: DBYD Request 101236026 - 1111 Elizabeth Drive Cecil Park NSW - Jemena Gas Pipelines

Hi Jason

I refer you to your previous DBYD enquiry at the same location – See below

The same conditions and requirements apply as listed below



Thanks



From: Gavin Sherriff
Sent: Tuesday, 1 September 2020 2:00 PM
To: iwatkins@martens.com.au
Cc: Luke Duncan <luke.duncan@jemena.com.au>
Subject: DBYD Request 101240097 - 1111 Elizabeth Drive Cecil Park NSW - Jemena Gas Pipelines

Hi Jason

Following on from your DBYD enquiry at 1111 Elizabeth Drive Cecil Park NSW

The Eastern Gas Pipeline (Blue) EGP crosses through the area highlighted additionally the Jemena Gas Network (Orange) pipeline is parallel to the EGP line

These are high pressure gas transmission pipelines, and not domestic supply with pressures up to 15000Kpa

Developments in this area may be referred to Jemena for comment by the Council

Jemena maintains an easement for the pipelines to protect the integrity and safety of the pipeline, Jemena reserves the right to protect the gas pipeline from encroachment

Crossing of the Gas pipelines is NOT permitted without further discussion and approval from Jemena

It should be noted that Jemena requests that all:

- education, child care facilities
- aged care facilities
- prisons
- health hubs,
- community health centres,
- primary health care clinics and
- ambulance stations

are located outside the Measurement Length

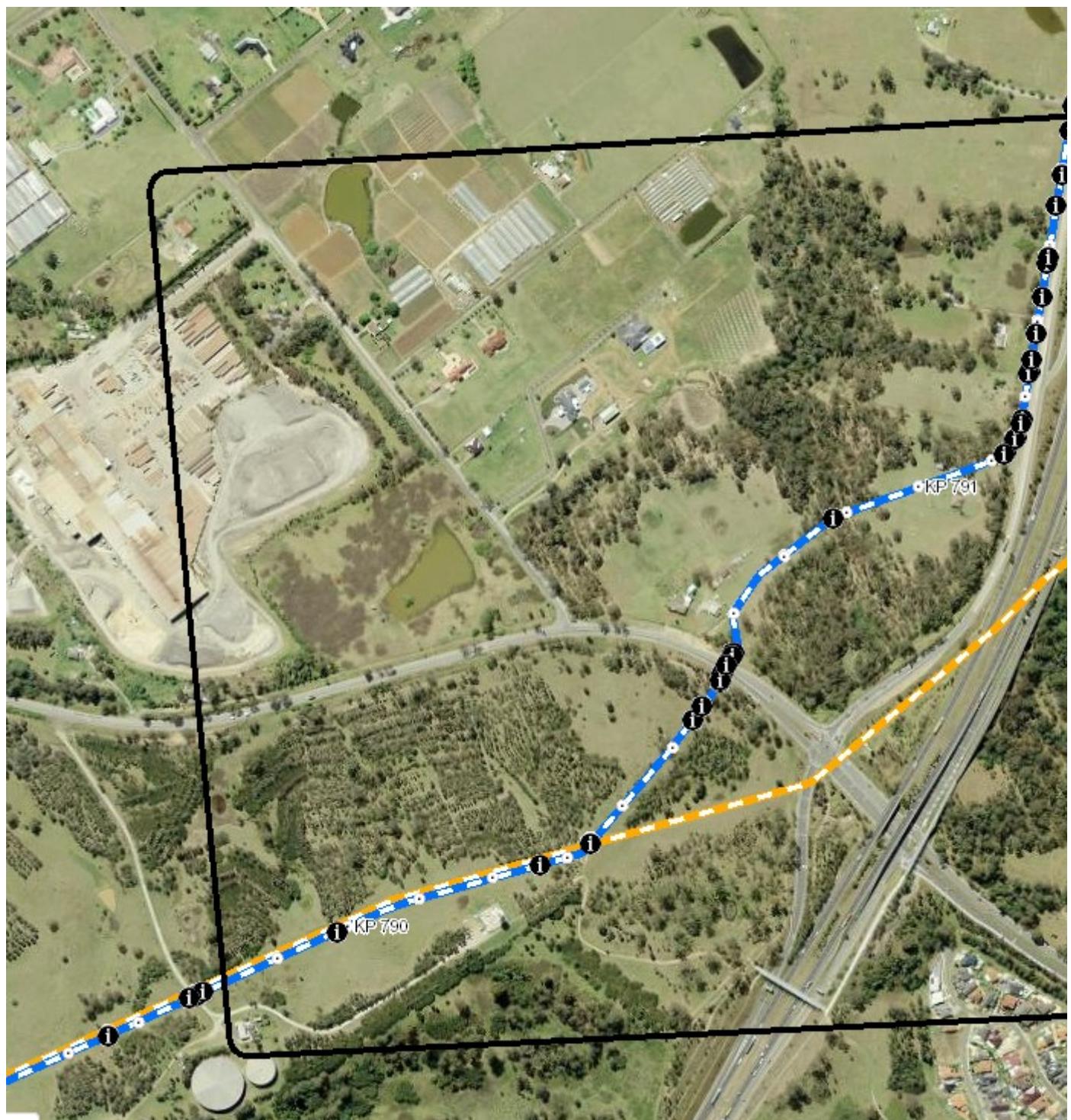
*(A Pipeline's **Measurement Length** is defined in AS2885 as a radial distance from the Pipeline, calculated by determining the 4.7kW/m² heat radiation contour in an event of a full bore rupture event. The event causing this type of rupture is typically works related to external parties, unaware and not following Jemena's requirements. During this type of event, an unprotected person exposed to the radiation level for a short period of time is likely to experience severe burns and possible fatality. A Pipeline rupture also has the potential to impact the environment as well as destroy and damage surrounding buildings. Jemena has determined a **Measurement Length of 766m** applies to both Pipelines. The Measurement Length is to be used to determine the appropriate type of land use and development occurring near the Pipelines)*

Please refer to the attached documents, including Jemena's construction guidelines for working around Jemena pipelines and the NSW Government Planning Circular

Any Works near and crossings of the Pipeline may be subject to a Safety Management Study at the proponent's expense

Additional protection measures of the pipeline may also be required

Jemena may also require 3rd parties undertaking any works approved by Jemena to enter in to a land crossing agreement with Jemena



If you require any further information, please don't hesitate to contact me

Regards

Gavin Sherriff
Lands Management - EGP – Vic/NSW

Jemena

Level 16, 567 Collins Street, Melbourne VIC 3000
P: 03 9173 7825 M: 0428 805 300
gavin.sherriff@jemena.com.au | www.jemena.com.au



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Issue Date: 28/08/2020

Mr Jason Watkins

Martens & Associates
Suit 201 20 George Street
Hornsby, NSW, 2077

Eastern Gas Pipeline
Joint Venture

Jemena Eastern Gas
Pipeline (1) Pty Ltd
ABN 15 068 570 847
Jemena Eastern Gas
Pipeline (2) Pty Ltd
ABN 77 006 919 115

Dear Sir / Madam

We confirm receipt of your request in relation to your Dial Before You Dig Inquiry.

35 West Dapto Road
Kembla Grange NSW 6500
PO Box 287
Unanderra NSW 2526
T +61 2 9867 7700
www.jemena.com.au

Sequence Number: 101236026
Job Number: 20149428
User Reference: Not Supplied

We further confirm that your proposed work site could impact our high pressure gas main assets. Hence for the safety of your personnel and the security of our assets, no work is to be undertaken until confirmation is received that either your work site is a safe distance from our assets and/or a joint site meeting has been arranged to undertake your work across our facilities with safety.

This response is only for the DBYD listed asset owner Jemena Gas Pipeline EGP (NSW)
which covers the EASTERN GAS PIPELINE, High Pressure Gas Transmission Pipeline.

Other underground infrastructure, including additional assets managed by Jemena may also be in the vicinity, and this response is not related to those assets.

Please find attached a general map showing the location of our Pipeline in relation to the work site indicated in your inquiry. Also attached is a document setting out our requirements for civil works in the vicinity of the Eastern Gas Pipeline and associated pipelines. Should supervision of your works be necessary, these requirements will be further communicated to your site personnel.

This request has been forwarded to our field personnel so that they can contact you as noted above and finalise this matter. If you have not been contacted within four (4) working days from the receipt of this letter please contact the undersigned.

Jemena's expectation is that the excavator operator holds a current Verification of Competency (VOC) or equivalent for the machine to be used near a Jemena Gas Transmission Asset.

Please do not hesitate to contact us if you require any further information. If there is no answer on the number below, please contact the above phone number, quoting the Sequence No, and your call will be returned as soon as possible.

Please note that unless written notification has been issued from an authorised Jemena representative granting an extension prior to the expiry date, this inquiry is only valid for **28 days** from the date of issue set out above. You are required to submit a new Dial Before You Dig enquiry prior to any further works after the expiry date.

Yours faithfully

DBYD Team

Ph: 1300 880 906
Email: dbyd.jpreply@jemena.com.au

Jemena Eastern Gas Pipeline
35 West Dapto Road
Kembla Grange NSW 6500
PO Box 287
Unanderra NSW 2526
T +61 2 4261 0500
F +61 2 4261 0501
www.jemena.com.au

Eastern Gas Pipeline
Dial Before You Dig
Notification Response
Issued on
28/08/2020



Sequence Number: 101236026

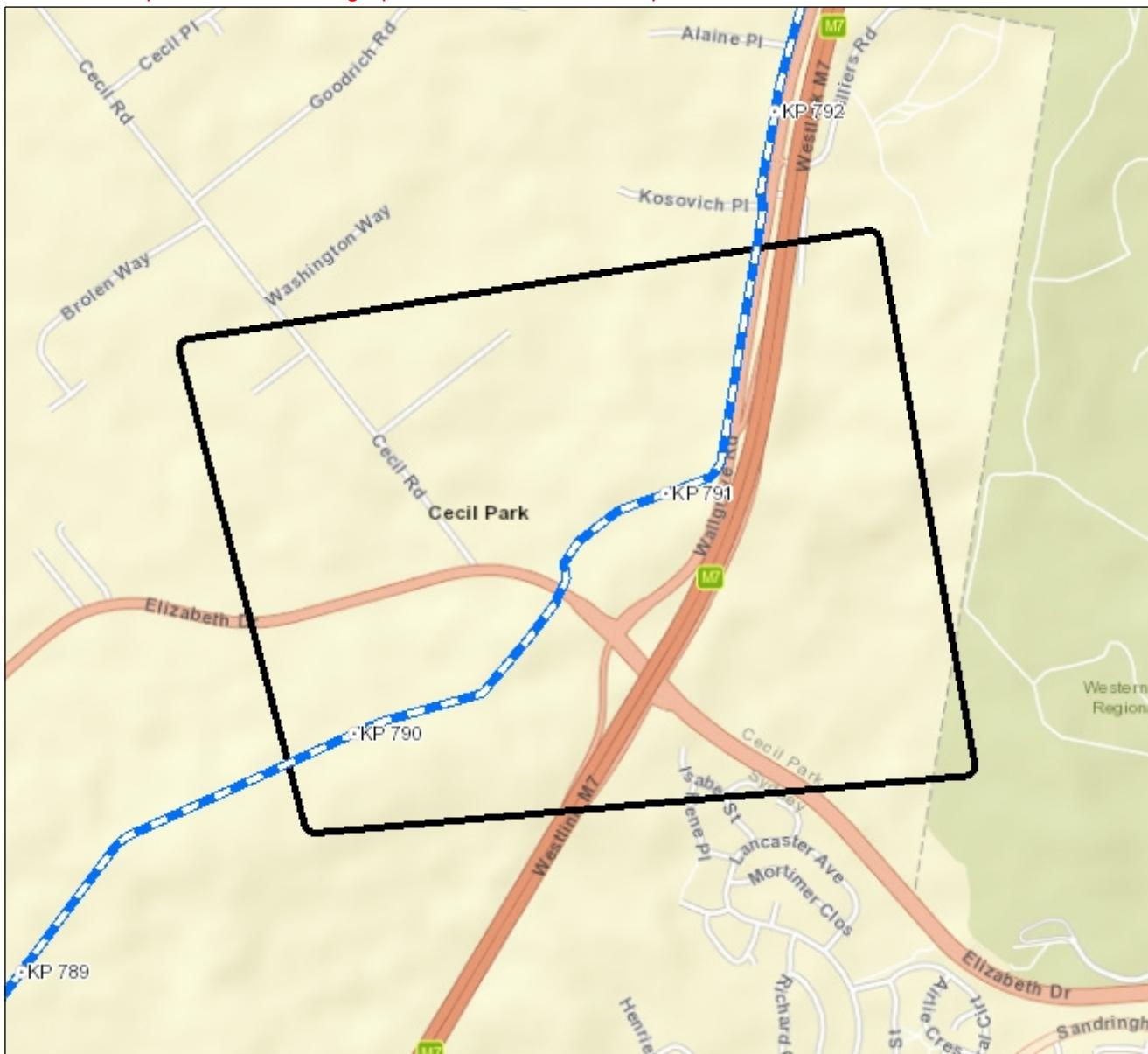
DBYD Enquiry Date: 28/08/2020 3:03:00 PM

Job Number: 20149428

User Reference: Not Supplied

Enquirer's Name: Mr Jason Watkins

Note: This response is for the high pressure Eastern Gas Pipeline and associated offtakes and laterals only



This information is valid for 28 days from the date of issue and is subject to the attached terms and conditions.

Legend



Requested DBYD Area



High Pressure Gas Pipeline
and Associated Infrastructure



Data Sources:

Jemena, Dial Before You Dig

(c) 2011 Microsoft Corporation

(c) 2010 MapData Sciences Pty Ltd, PSMS (c) AND

While every effort has been made to ensure the data is correct, Jemena gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accept no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential loss or damage) relating to any use of the data shown on this map.

The information shown on this map is approximate only and should not be considered as any more than indicative only.

The purpose of this flyer is to provide third parties with information regarding the process for working in and around Jemena managed / operated Gas Transmission pipelines and easements.

Prior to conducting any work activity the third party must ensure:

- They have engaged with Jemena and a preliminary assessment has taken place
- DBYD information must be onsite for any excavation to proceed
- A Jemena representative is on site and you have received a signed "Third Party Site Instruction Form"

The role of the Jemena representative is to ensure that the safety and integrity of the Jemena asset(s) are not compromised.

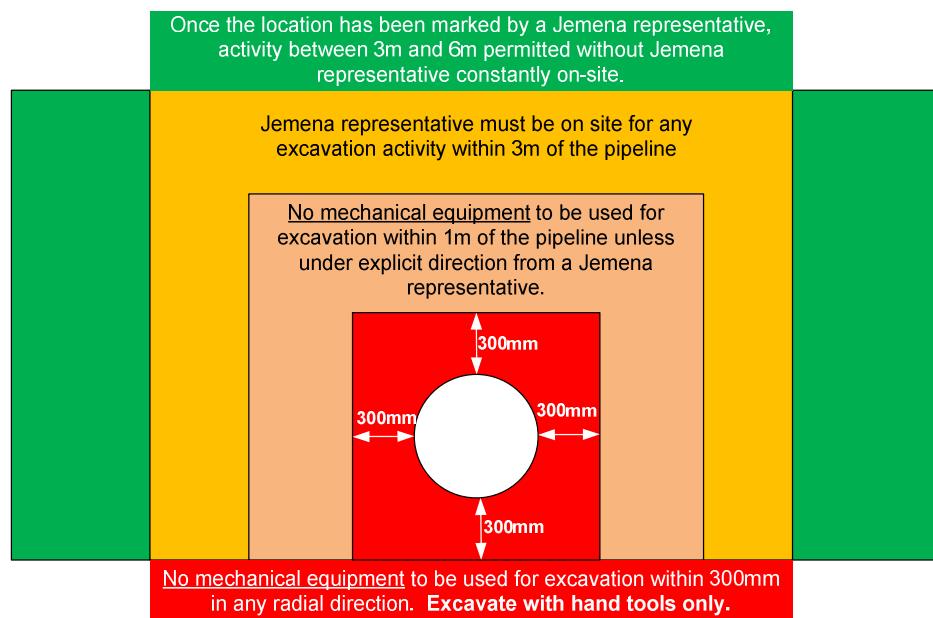
THIRD PARTY SITE INSTRUCTION FORM

The Jemena representative will meet with the third party to determine the impact of work and prepare the third party site instruction form. The instruction will include several mandatory conditions and may contain other site / task specific conditions.

The third party is to ensure they understand the instructions given, and agree to observe them at all times. It is expected that the third party will sign the instruction to confirm their understanding and acceptance of the conditions.

MANDATORY CONDITIONS

- Pipeline to be marked on-site by a Jemena representative
- Work can only be performed during the period of currency stated on the instruction
- No work is to be performed within 3m of the pipeline without a Jemena representative onsite or unless stipulated on the instruction
- No mechanical equipment to be used for excavation within 1m of the pipeline in any radial direction, even after the pipeline location has been visually proven, unless under explicit direction from a Jemena representative
- No mechanical works allowed within 600mm in any radial direction without visually proving the location of the pipeline. Excavate with hand tools only until pipeline location has been visually proven
- No mechanical equipment to be used for excavation within 300mm in any radial direction. Excavate with hand tools only
- For backfill, suitable padding material (screened spoil or clean sand with particles less than 2.8mm in size) is required for at least 150mm around the pipe



Issued on 28/08/2020

Mr Jason Watkins
Martens & Associates
Suit 201 20 George Street
Hornsby NSW 2077
jwatkins@martens.com.au
02 9476 9932 / 0409456431

Jemena Gas Networks
Level 14, 99 Walker Street
North Sydney, NSW 2060
PO Box 1220,
North Sydney, NSW 2059
1300 880 906
www.jemena.com.au

Dear Sir/Madam

DBYD Request – 1111 Elizabeth Drive Cecil Park NSW 2178

We refer to your recent Enquiry DBYD JOB: 20149848 SEQ: 101238571

We confirm receipt of your request in relation to your Dial Before You Dig Inquiry.

In reply to your enquiry, there are **High Pressure Gas Mains** 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, as discussed in the warning below.

This response is only for the JEMENA GAS NETWORK GAS PIPELINE, High Pressure Gas Transmission Pipeline. Other underground infrastructure, including additional assets managed by Jemena may also be in the vicinity, and this response is not related to those assets.

The following excavations guidelines apply:

Prior to **any** excavations in this area, you **must** contact the High Pressure Response Coordinator on **1300 665 380**. (**Appointments will be coordinated with availability of a Jemena Representative**). For all works in the vicinity of High Pressure Gas Mains you must arrange for a Jemena Representative to attend and supervise all excavations. Charges apply for attendance of any works outside the hours of 7am to 4pm, Monday to Friday (**“Standard Business Hours”**) and for any attendance during Standard Business Hours that is longer than 2 hours.

Jemena's expectation is that the excavator operator holds a current Verification of Competency (VOC) or equivalent for the machine to be used near a Jemena Gas Transmission Asset.

In accordance with clause 34D(1) of the Gas Supply (Safety and Network Management) Regulation 2008 (NSW), you should be informed that all excavation, (including pot-holing by hand to confirm the location of pipes) should be performed in accordance with **“Work Near Underground Assets Guideline” published in 2007 by the Work Cover Authority.**

A copy of this Guideline is available at: www.safework.nsw.gov.au

In case of Emergency Phone 131 909 (24 hours)

Warning: The enclosed plans show the position of Jemena Gas Networks (NSW) Ltd's underground gas mains and installations in public gazetted roads only. **Individual customers' services and services belonging to other third parties are not included** on these plans. These plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together **“Jemena”**) and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of underground mains and installations relative to fences, buildings etc., as they existed at the time the mains etc were installed. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared. Jemena 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, omission, lack of detail, transmission failure or corruption in the information provided. Jemena does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of Jemena, its employees, agents, officers or contractors). The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains and equipment. Jemena advises that you may be required to carry out potholing by hand if required by a Jemena Representative to confirm the location of Jemena's main and installations. This must also be performed by you under the supervision of a Jemena Representative and be carried out in accordance with the Working Near Underground Assets Guideline published in 2007 by Work Cover Authority.

Yours sincerely
Jemena Dial Before You Dig

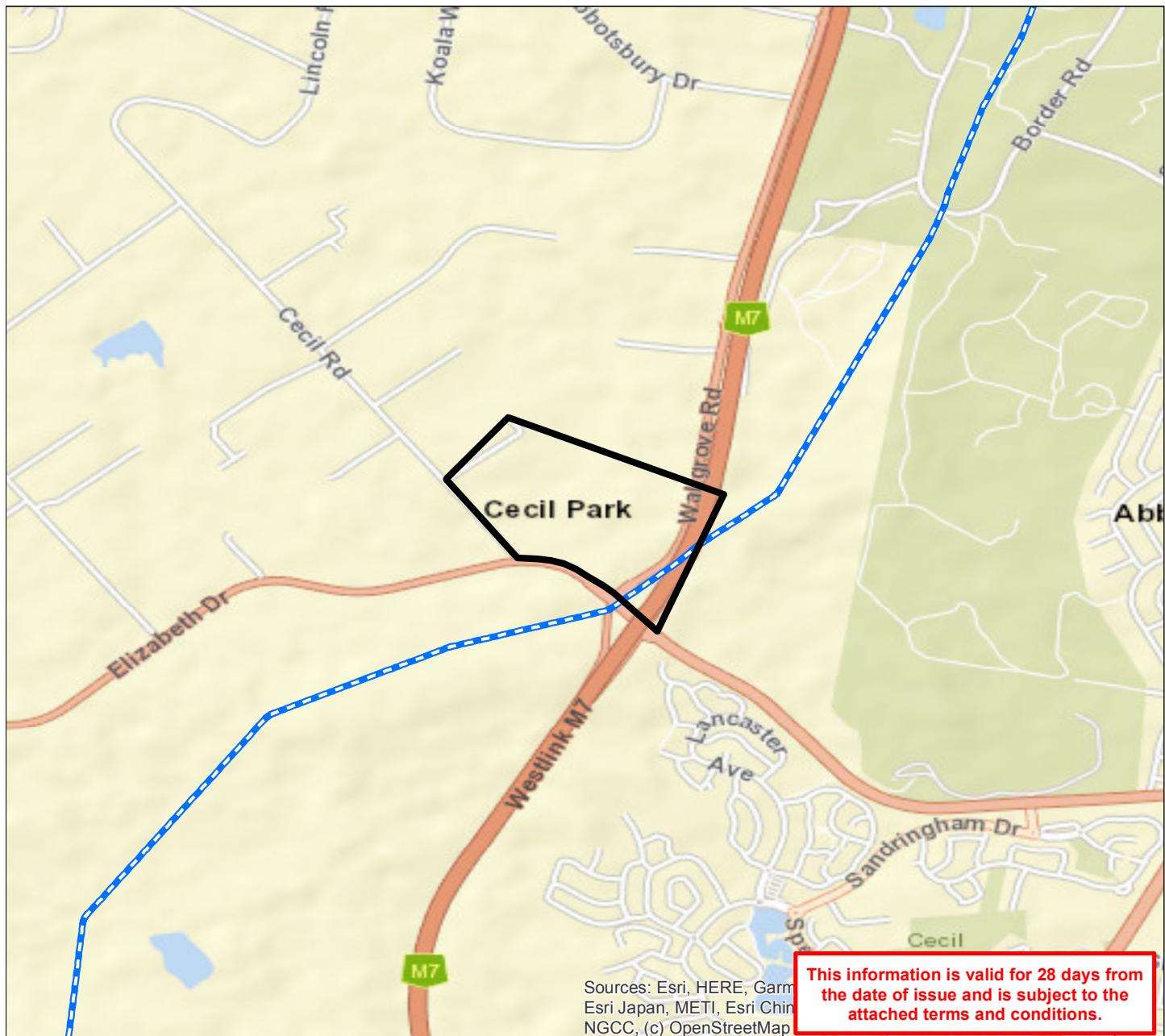
Jemena Gas Networks
Dial Before You Dig
Notification Response
Issued on 28/08/2020

Jemena Gas Networks
99 Walker Street
North Sydney NSW



Sequence Number: 101238571 DBYD Enquiry Date: 28/08/2020 15:46
Job Number: 20149848 User Reference: _____
Enquirer's Name: Mr Jason Watkins (Martens & Associates)
Enquirer's Phone: Ph: 02 9476 9932 / Mob: 0409456431 Activity: Subdivision
Location Details: 1111 Elizabeth Drive Cecil Park NSW 2178

Note: This response is for the high pressure JGN Trunk Pipelines and associated offtakes and laterals only.



Legend



Requested DBYD Area



Transmission Main



High Pressure Gas Pipeline
and Associated Infrastructure



Primary Main

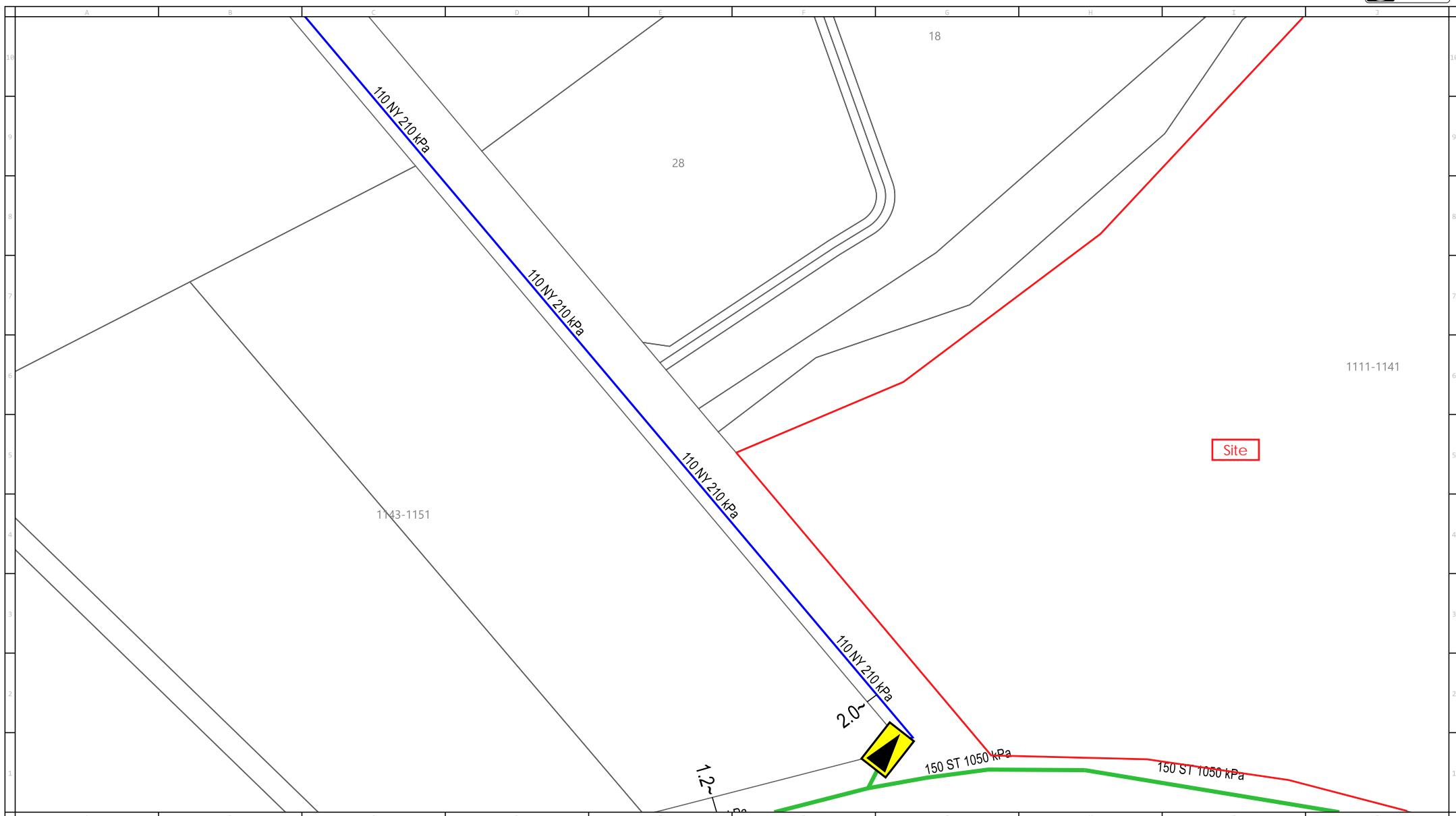


While every effort has been made to ensure the data is correct, Jemena gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accept no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential loss or damage) relating to any use of the data shown on this map.

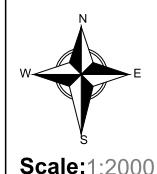
The information shown on this map is approximate only and should not be considered as any more than indicative only.

Data Sources
Jemena, Dial Before You Dig
ESRI

Scale: 1:25,000

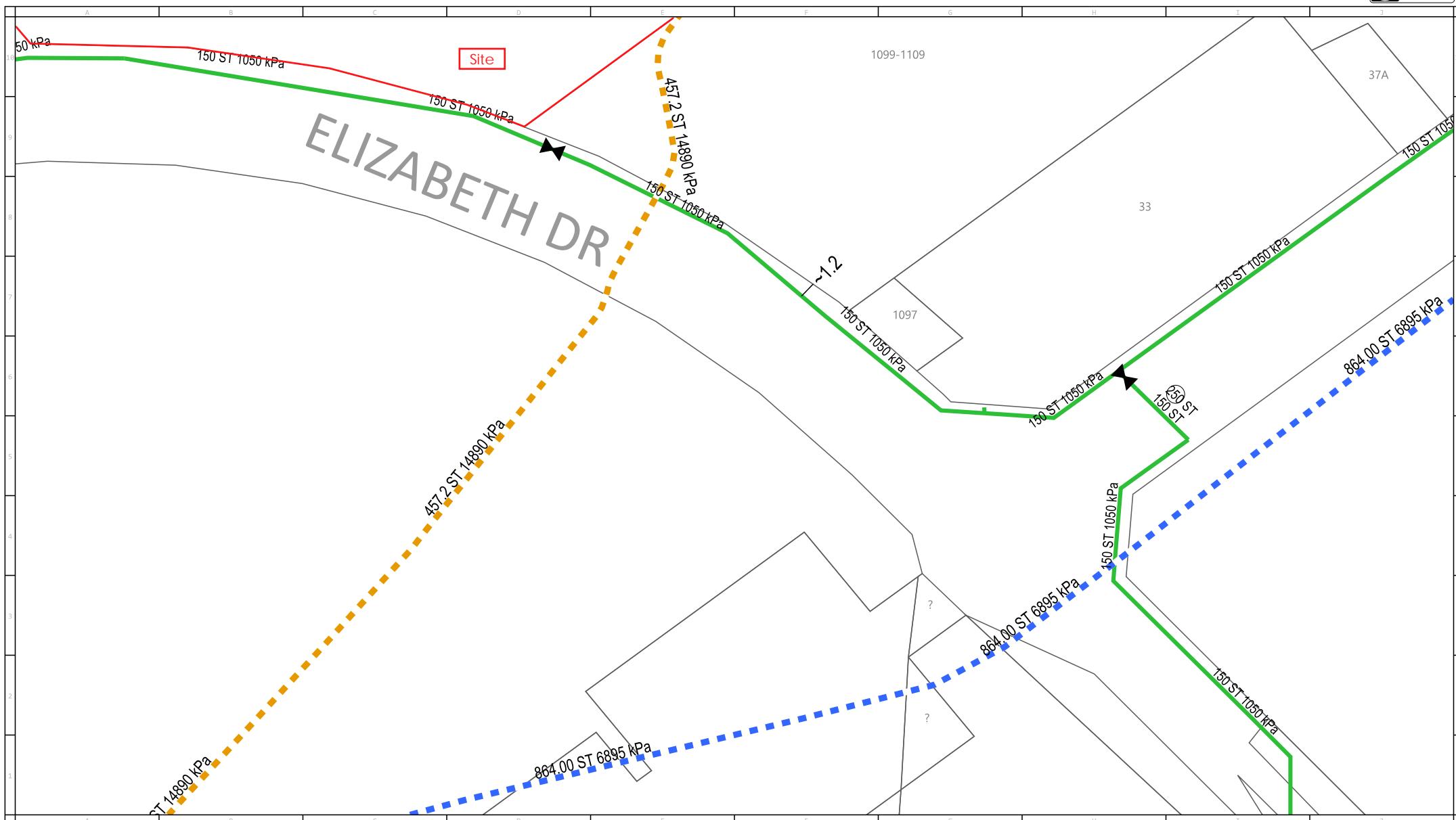


For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.

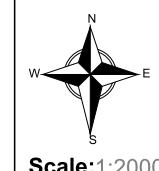


Issue Date: 28/08/2020
DBYD Seq No: 101239049
DBYD Job No: 20149936
 0m 10m 20m 30m 40m 50m 60m 70m 80m

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.

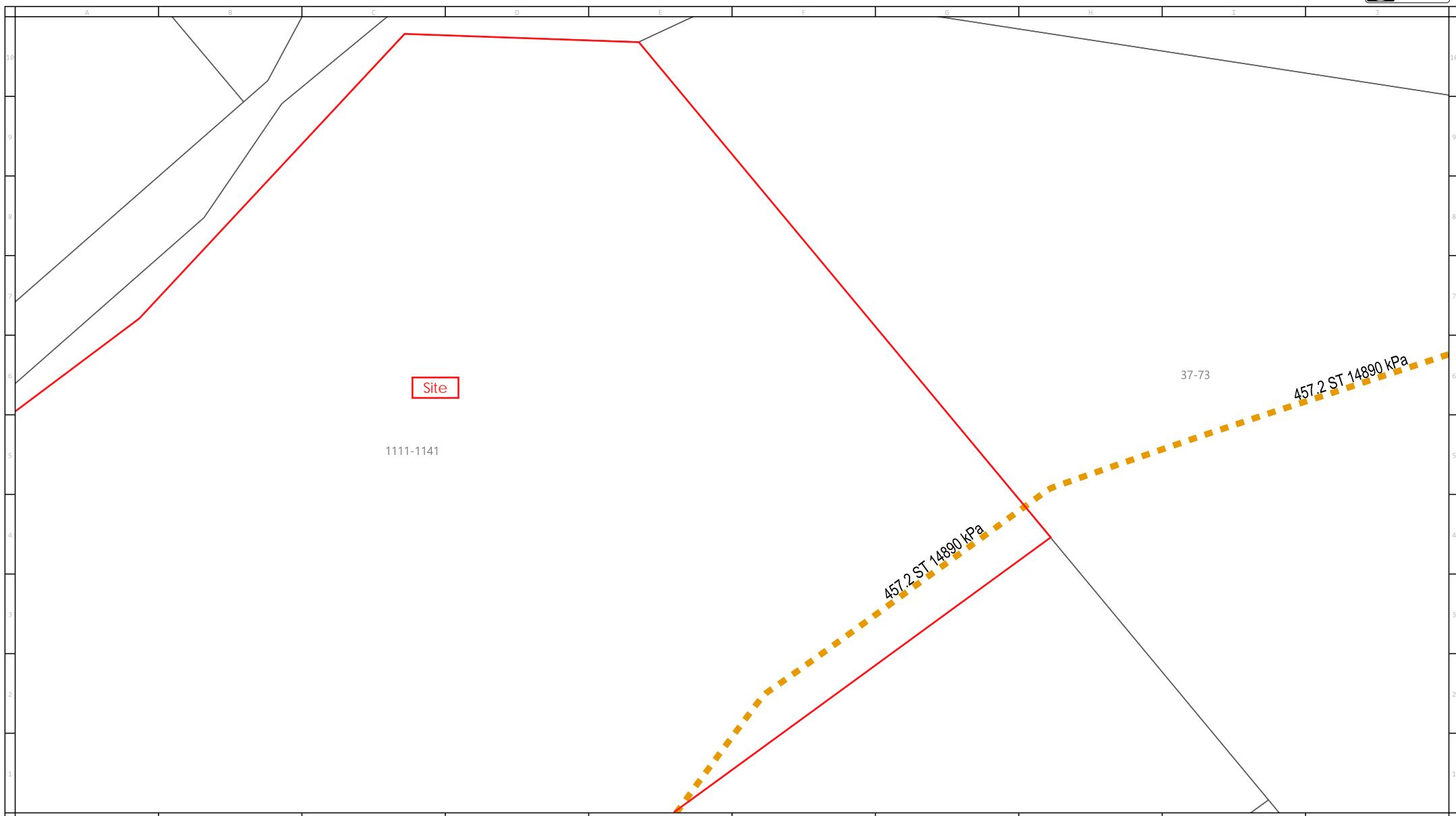


For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.

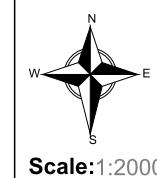


Issue Date: 28/08/2020
DBYD Seq No: 101238570
DBYD Job No: 20149848
0m 10m 20m 30m 40m 50m 60m 70m 80m

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.

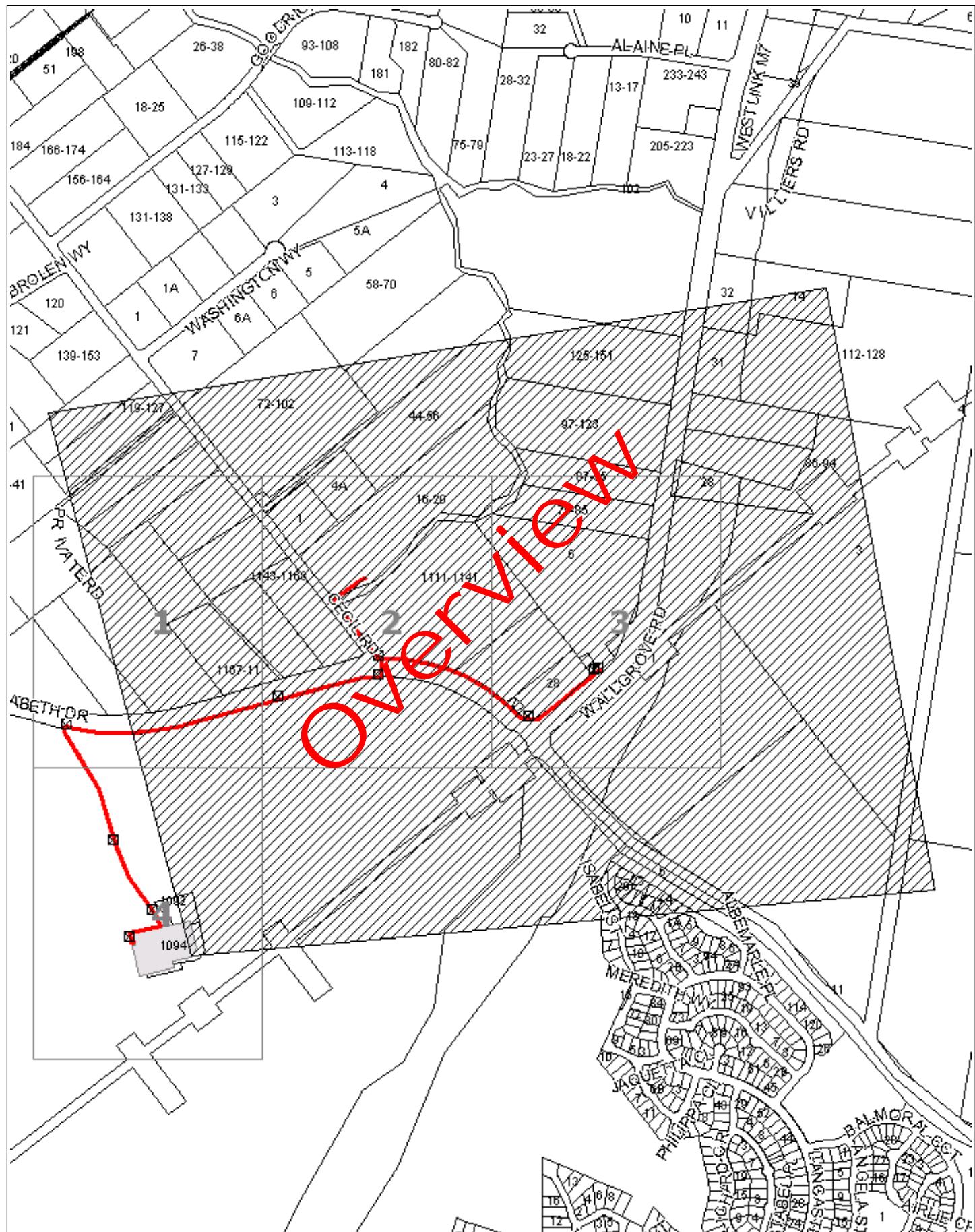


For legend details, please refer to the Coversheet attachment provided as part of this DBYD response.



Issue Date: 28/08/2020
 DBYD Seq No: 101238570
 DBYD Job No: 20149848
 0m 10m 20m 30m 40m 50m 60m 70m 80m
 Scale: 1:2000

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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Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

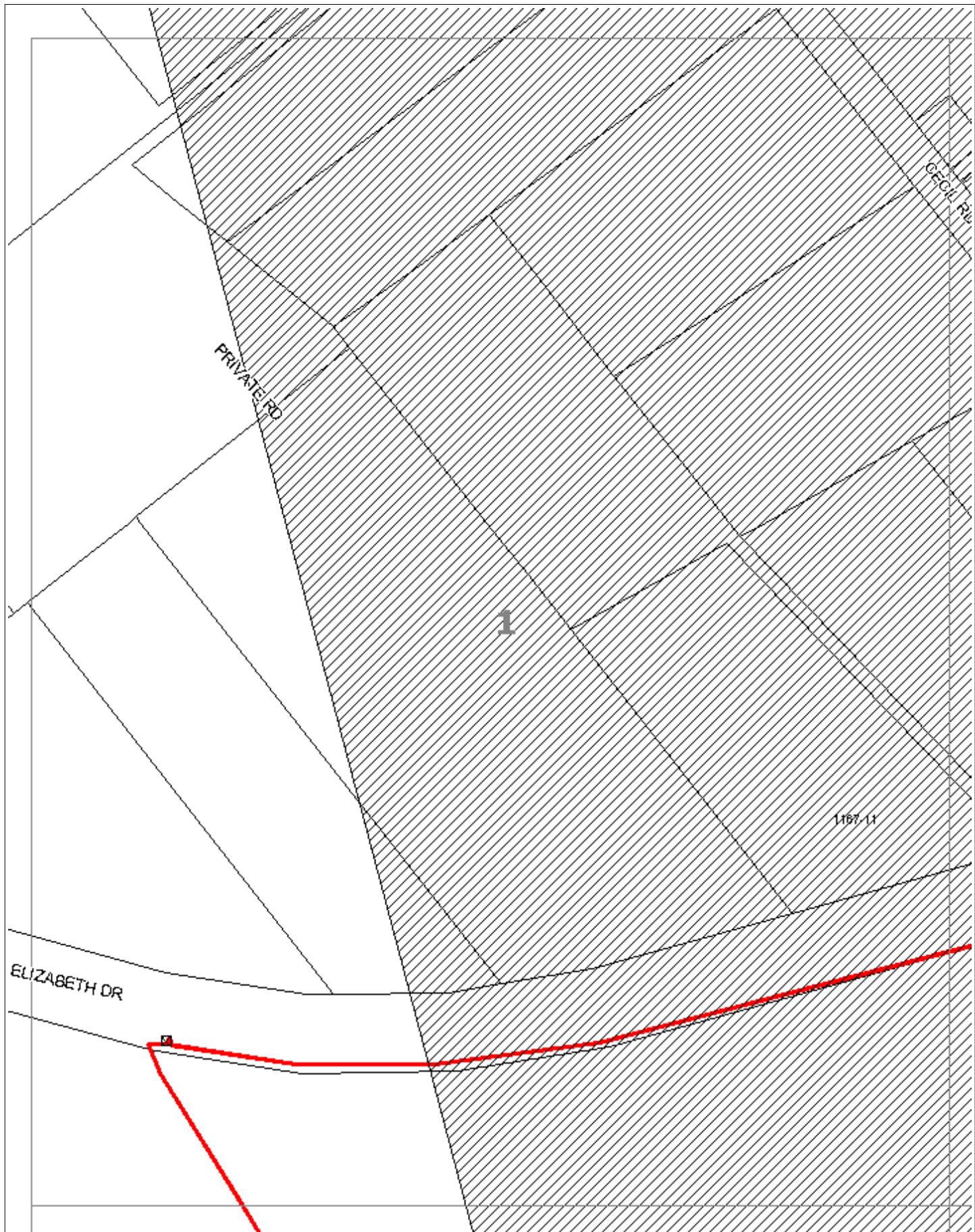
Sequence Number: 101236022

Date Generated: 28/08/2020

OPTUS 

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





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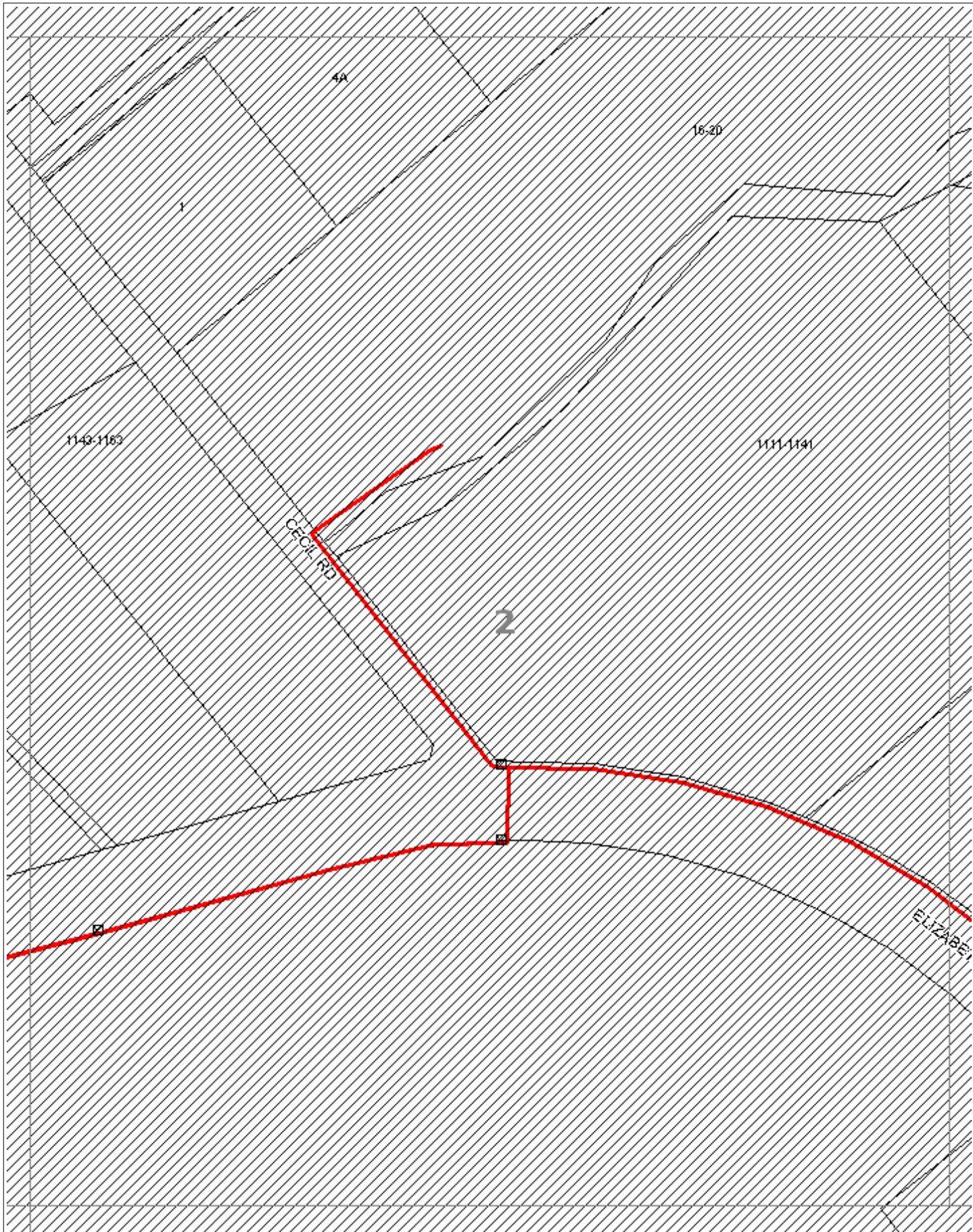
Sequence Number: 101236022

Date Generated: 28/08/2020



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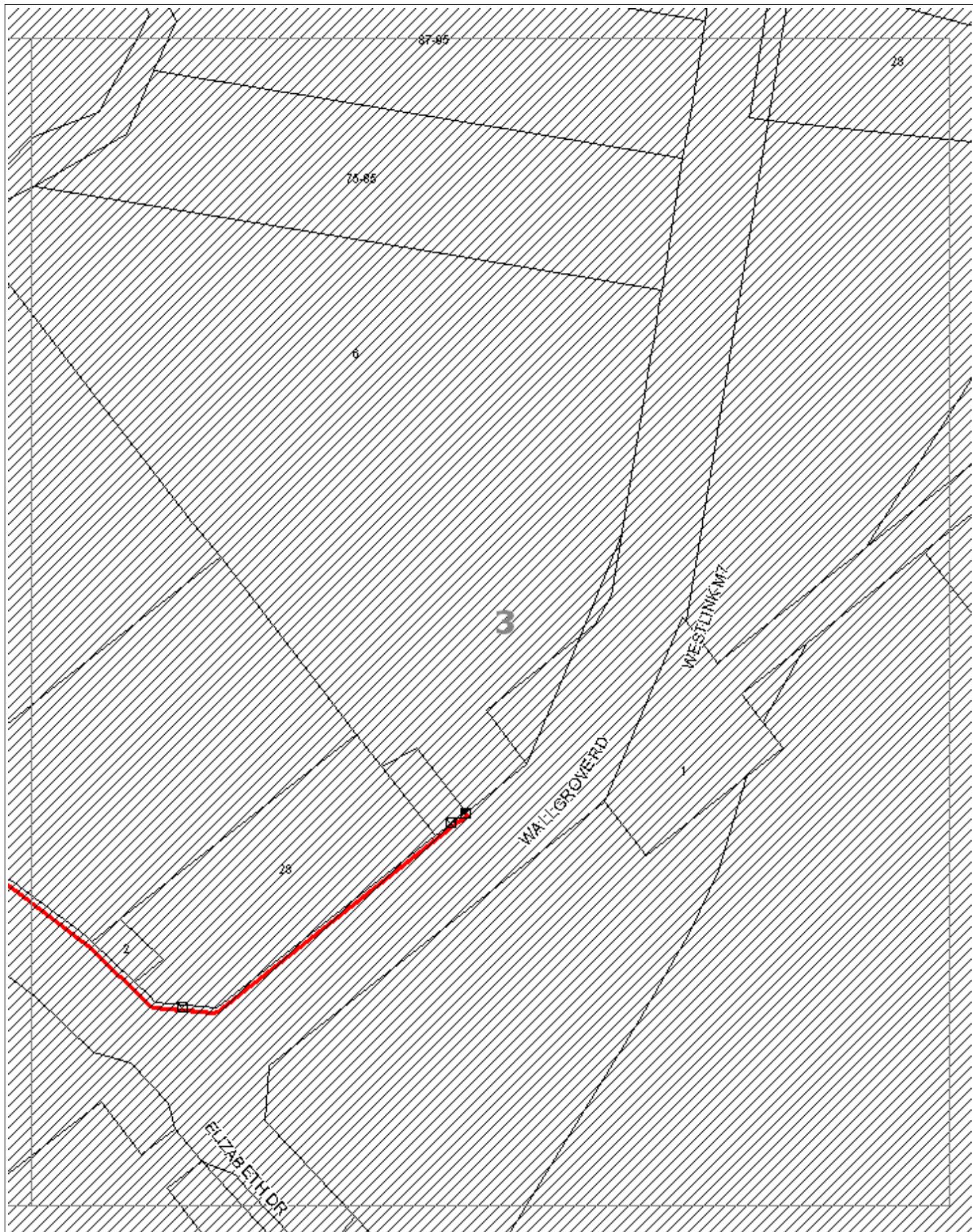
Sequence Number: 101236022

Date Generated: 28/08/2020



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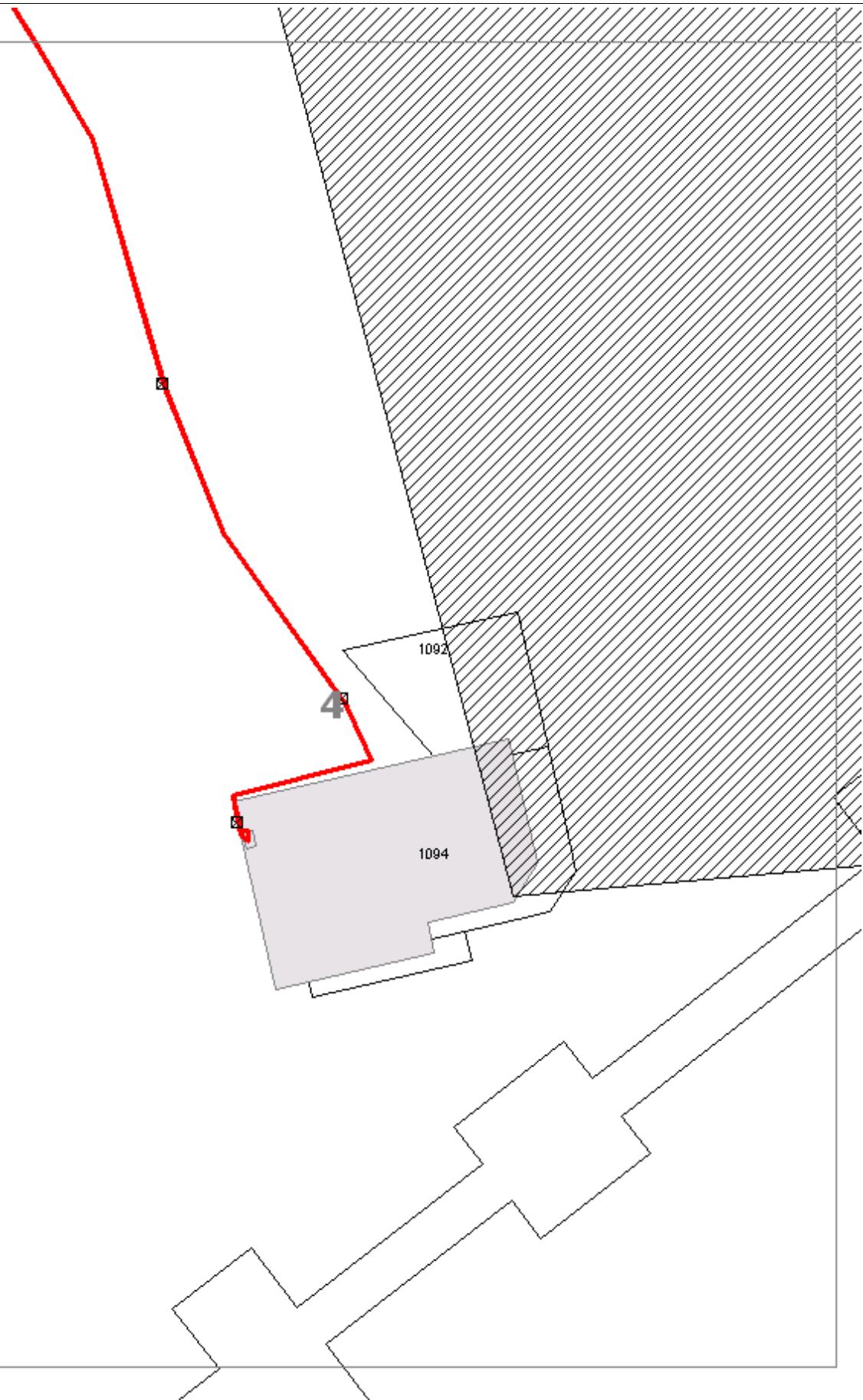
Sequence Number: 101236022

Date Generated: 28/08/2020



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Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





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