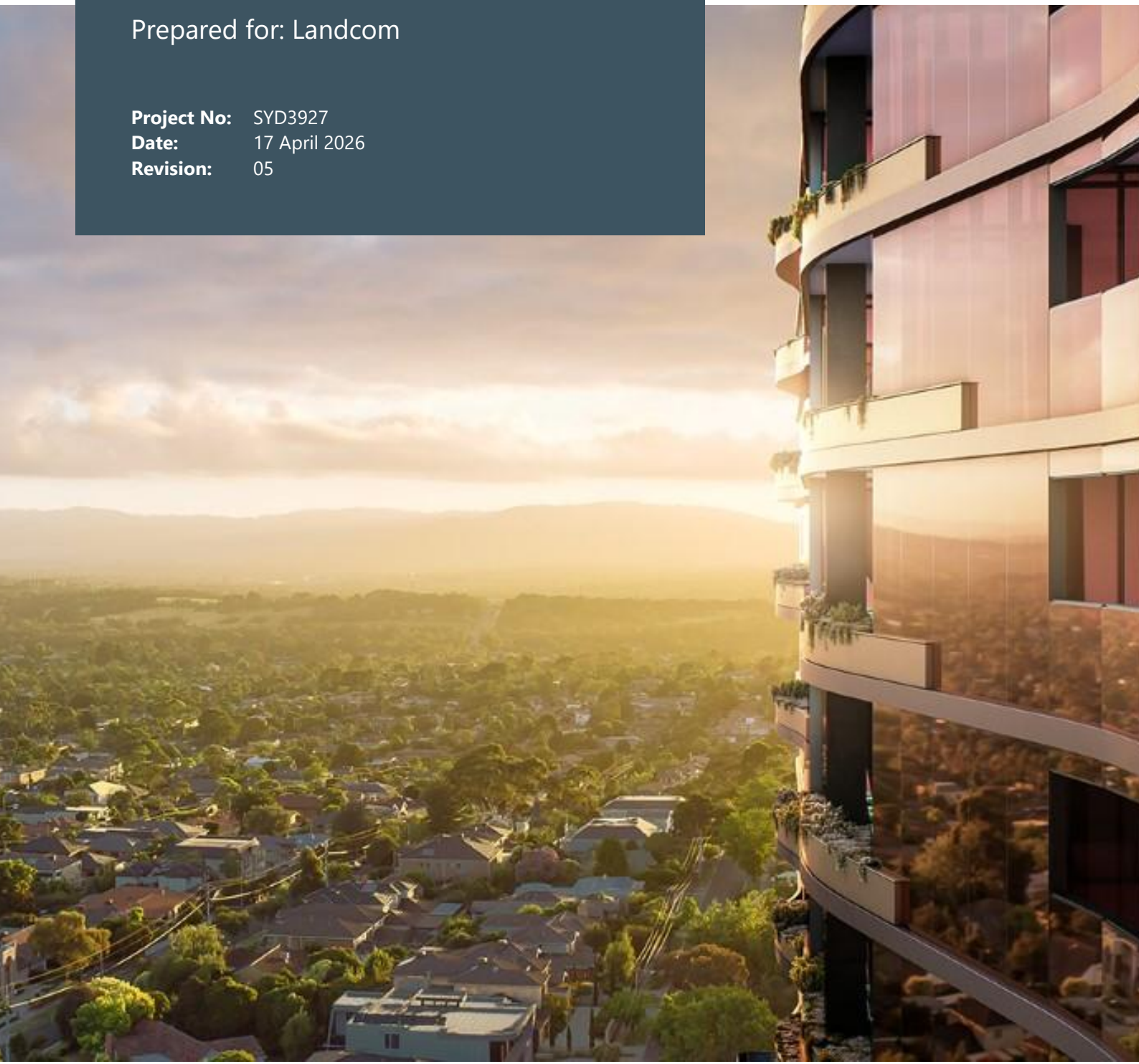


Block 20a Edmondson Park

SSDA Infrastructure Report

Prepared for: Landcom

Project No: SYD3927
Date: 17 April 2026
Revision: 05



Project: Block 20a Edmondson Park

Location: Lot 401, Cnr MacDonald Rd + Buchan Ave
Edmondson Park, NSW 2518

Prepared by: ADP Consulting Pty Ltd
Level 6, 33 Erskine Street
Sydney NSW 2000

Project No: SYD3927

Revision: 05

Date: 17 April 2026

Rev	Date	Comment	Author	Technical Review	Authorisation & QA
01	30/09/2025	Draft Issue	Various	MA	MR
02	21/11/2025	Final Issue	Various	MA	MR
03	02/03/2026	Final Issue	Various	MA	MR
04	04/03/2026	SSDA Issue	Various	MA	MR
05	17/04/2026	SSDA Issue	Various	MA	MR

Project Team

Developer Landcom

Architect Fuse Architects

Services Consultant ADP Consulting

Civil Consultant ADP Consulting

Contents

1. Executive Summary	4
2. Introduction	5
2.1 Project Description.....	5
2.2 Purpose of the Report	5
2.3 Information Sources	6
3. Site Infrastructure Overview	7
3.1 General	7
3.2 Infrastructure Matrix.....	7
3.3 Funding	8
3.4 Staging.....	9
4. SSDA Electrical Infrastructure.....	10
4.1 Existing Infrastructure	10
4.2 Electrical Maximum Demand	12
4.3 New Works Associated with Electrical Infrastructure	12
4.4 Next steps.....	13
5. Telecommunications.....	14
5.1 NBN Co. inground infrastructure	14
5.2 Telstra inground infrastructure	14
5.3 Carrier Cell Towers	15
5.4 New Works Associated with Telecommunications Infrastructure.....	16
5.5 Items to be Resolved	16
6. Water & Sewer Infrastructure	17
6.1 Existing Infrastructure	17
6.2 Water and Sewer Max Demand Calculations	18
6.3 Existing Water Services	18
6.4 Sewer Services	19
6.5 Water & Sewer Services Staging	19
6.6 Items to be resolved.....	20
7. Gas Infrastructure	21
7.1 Existing Infrastructure	21

7.2	Natural Gas	21
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Figures

Figure 1	Site location (Source: Fuse – Architects)	5
Figure 2	Endeavour Energy HV network.....	10
Figure 3	Endeavour Energy Infrastructure (LV network).....	11
Figure 4	Endeavour Energy Infrastructure (SL network)	12
Figure 7	NBNCo Infrastructure & Legend.....	14
Figure 8	Telstra Infrastructure & Legend.....	14
Figure 9	Radio Frequency National Site Archive (RFNSA)	15
Figure 10	Telstra - 5G & 4G Coverage Map.....	16
Figure 11	Existing Sydney Water Assets.....	17
Figure 12	Gas Infrastructure	21

1. Executive Summary

The site is located on Lot 401, Cnr MacDonald Rd + Buchan Ave, Edmondson Park and is approximately 3,385 sqm in size (refer to Figure 1). The site is a corner block where the north eastern side of the boundary will be facing the future MacDonald Rd (Macdonald Rd yet to be constructed) and the south western boundary is facing Buchan Ave. It is proposed that the site will interconnect Buchan Avenue with the future road central spine street via a lane way to the eastern side of the site.

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 infrastructure around the site:

- > Existing infrastructure surrounding and serving the site.
- > 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.

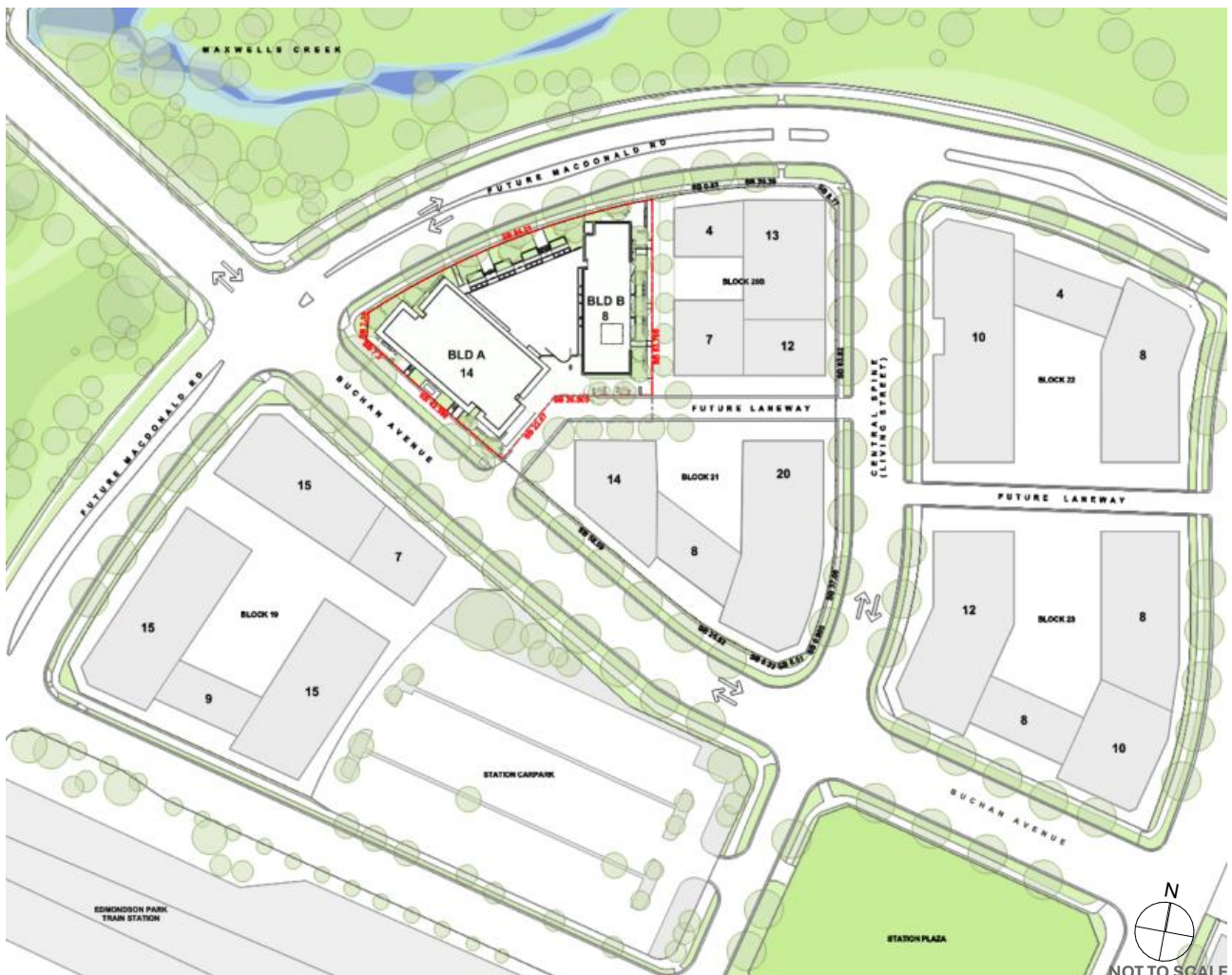
2. Introduction

2.1 Project Description

The project will deliver 172 apartments in a purpose-built residential building dedicated to 100% affordable rental housing under a single ownership. The dwellings will be externally indistinguishable from private market housing and designed to ADG minimum standards, offering a variety of apartment sizes and configurations tailored to site character, demographics, and market needs.

All apartments will target universal design and LHA Silver Certification, ensuring accessibility and adaptability. The development will also include community amenities, robust and low-maintenance finishes in circulation areas.

Figure 1 Site Plan (Source: Fuse – Architects REV A 22/1/2026)



2.2 Purpose of the Report

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

> Water & Sewer (Sydney Water)

Project: SYD3927 Block 20a Edmondson Park
Report: SSDA Infrastructure
Date: 17 April 2026 Rev: 05

- > Electrical (Endeavour Energy)
- > Telecommunication (Telstra, NBN, and Optus)
- > Gas (Jemena)

2.3 Information Sources

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

- > Before You Dig Australia (BYDA) information packages.
- > Inspection of available on-site imagery.
- > Architectural drawings by Fuse Architects.
- > Preliminary feedback received to date from authorities.
- > Sydney Water Statement of Available Pressure and Flow

3. Site Infrastructure Overview

3.1 General

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

Authority infrastructure reviewed in this report includes:

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

Table 1 Infrastructure Matrix

Report Objective / Scope	Section Corresponding within Report
Synthesise the individual studies undertaken to determine whether new or upgraded infrastructure is required, and outline how it may be funded and delivered.	Section 3.2, 3.3 and 3.4
Assess the current capacity of utility infrastructure and its ability to service the proposal, including how any identified shortfalls may be addressed. This includes potable water, recycled water, sewer, gas, electricity and telecommunications/NBN	Section 4,5,6, and 7
Identify and summarise infrastructure required to support the proposal, including indicative costs, staging, responsible authorities, and potential funding mechanisms.	Section 4,5,6, and 7
Incorporate consultation with relevant authorities and provide recommendations to support coordinated and timely infrastructure delivery.	Section 4,5,6, and 7
Development Staging Plan that identifies staging, priorities, and actions of development and infrastructure implementation in the short, medium and long term.	Section 3.4

3.2 Infrastructure Matrix

The following matrix summarises the status of the Authorities works required for the development.

Table 2 Infrastructure Matrix

Authority	SSDA Scope of Works	Concept Plan/Mod 5 Scope of Works	Status
Telstra	New building pathways are to be constructed with lead-in conduits, coordinated with the future telecommunications carrier final pit location within the pedestrian walkway.	No existing communications infrastructure is present adjacent to the proposed building boundary. An application will need to be submitted to extend services to the property boundary line. Please note that this may involve Telstra overhaul costs, subject to Telstra's confirmation.	Shall Telstra be chosen as carrier, connection application shall be made to relevant authority. Telstra is the major Telecom provider for this area.
NBN	New building pathways are to be constructed with lead-in conduits, coordinated with the future telecommunications carrier final pit location within the pedestrian walkway.	No existing infrastructure adjacent to the proposed building boundary present. Application is to be made for extending services to the property boundary line.	Shall NBN be chosen as carrier, connection application shall be made to relevant authority.
Endeavour Energy	Establishment of a new padmount substation)	Establishment of a new padmount substation	Endeavour Energy to be notified of the new works. Level 3 design to commence once design information package released by authority.
Sydney Water	Connect to water main on Buchan Ave for Hydraulic and fire requirements. Connection to sewer main to be confirmed by WSC as the DN375 sewer main is approximately 130m away from the site.	A Sydney Water 73 application is required for sanitary drainage and domestic cold water and recycled water connections. There is to be an extension of the existing Sydney water sewer main infrastructure to service the new development.	Submission of Section 73 to Sydney Water will be required post SSDA approval. Sydney Water Feasibility assessment to be lodged with WSC. Trade waste agreement to be submitted by contractor (if required)
Jemena	None	None	NA

3.3 Funding

The project will be funded via an investment from the NSW Government into Landcom. Landcom to confirm final requirements and restrictions.

3.4 Staging

The proposed development will be delivered as a single stage.

4. SSDA Electrical Infrastructure

4.1 Existing Infrastructure

Based on the Endeavour Energy ArcGIS, existing High Voltage (HV) 11kV and Low Voltage and (LV) networks are present along the development site on Buchan Avenue. The image below illustrates the HV network in red, the LV and street lighting (SL) network in blue.

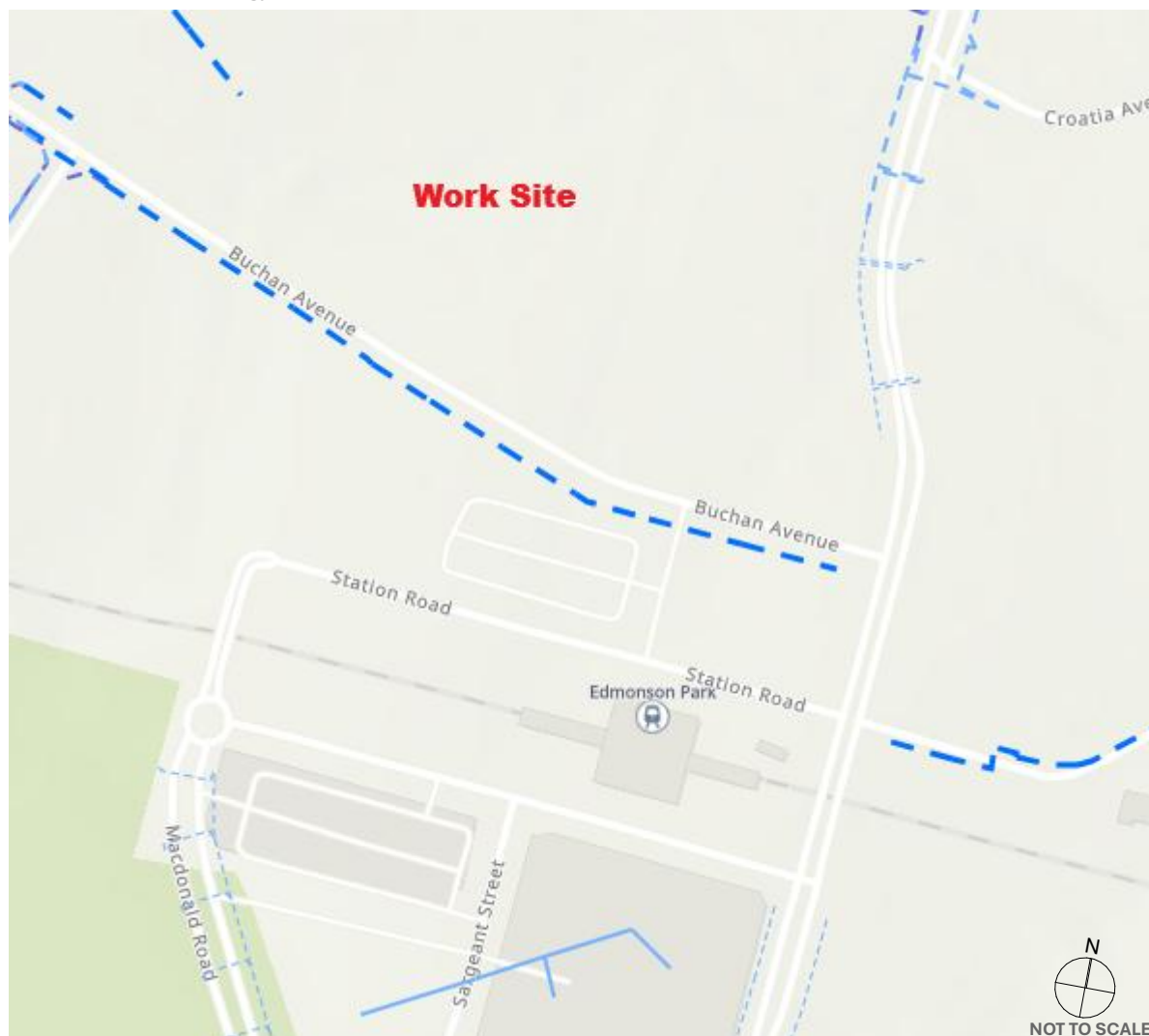
Figure 2 Endeavour Energy HV network



Figure 3 Endeavour Energy Infrastructure (LV network)



Figure 4 Endeavour Energy Infrastructure (SL network)



4.2 Electrical Maximum Demand

The estimated maximum demand for the proposed development site, calculated in accordance with AS/NZS 3000:2018, is 973kVA (1404A) based on the initial architectural layouts.

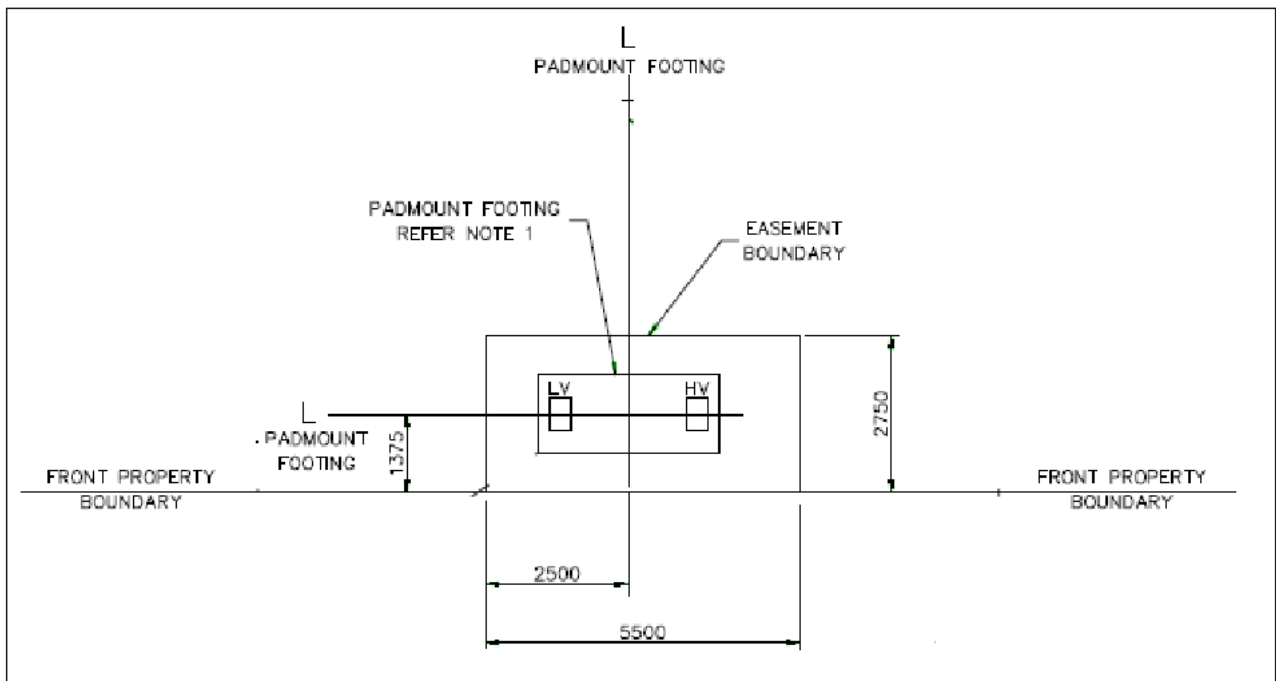
4.3 New Works Associated with Electrical Infrastructure

Based on Endeavour Energy's network status and the proposed architectural plans for the development, the following new electrical infrastructure works are anticipated:

Given the results of the maximum demand calculation, a new 1000kVA padmount substation will be required to supply power to the proposed development. This proposal is subject to Endeavour Energy's approval and confirmation of the current network capacity.

The existing HV network in Buchan Avenue will be extended to the new substation by installing new underground HV cables, allowing for a loop-in loop-out connection to integrate the substation into the network.

Figure 5 Endeavour Energy Padmount Substation



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 Endeavour Energy to commence confirmation of the electrical connection requirements, for supply authority assessment. The substation type will need to be confirmed prior to connection application.
- > ADP Level 3 designer to progress with detailed design based on the authority assessment outcome.
- > The supply authority design process to commence, with a certified design to be achieved.

5. Telecommunications

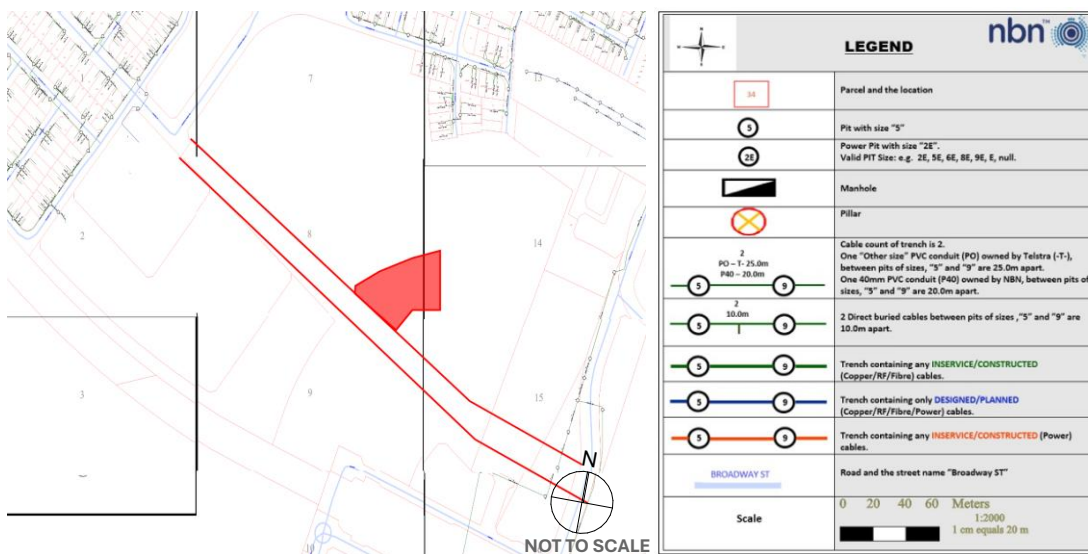
The current BYDA indicates that in-ground communication services within the Edmondson Park area suburb of the proposed site. The telecommunication services listed below are available to be extended to the site:

- > NBNco
- > Telstra

5.1 NBN Co. inground infrastructure

The current BYDA (Before You Dig Australia) information indicates that NBN Co's in-ground services are sharing the existing pathway with Telstra pits within the area shown below. However, it appears that the BYDA data has not yet been updated to reflect the newly subdivided lots. At this stage, there are no in-ground assets developed adjacent to the proposed property boundary along Buchan Avenue.

Figure 5 NBNCo Infrastructure & Legend



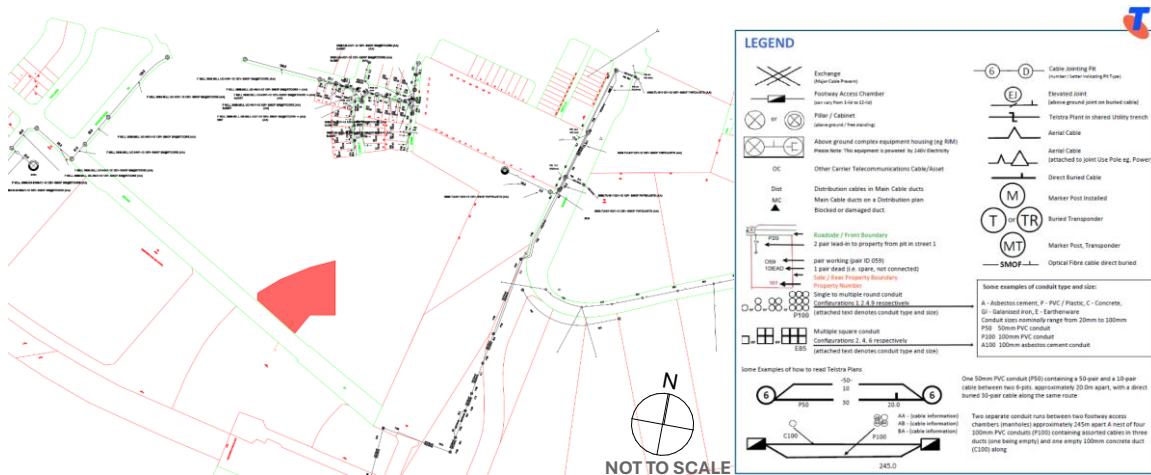
5.2 Telstra inground infrastructure

Review of current BYDA (Before You Dig Australia) enquiries indicates that existing Telstra in-ground telecommunications services are located within the established service corridors along Bernera Road and are co-located with NBN infrastructure. These services form part of the primary telecommunications network servicing the surrounding locality. Telstra is understood to be the primary fibre-to-the-premises (FTTP) provider for properties in the vicinity of the subject site.

At the time of assessment, no existing in-ground telecommunications assets have been identified immediately adjoining the subject site boundary along Buchan Avenue.

To facilitate telecommunications servicing for the proposed development, it is recommended that an application be lodged with Telstra to extend pit and pipe infrastructure along the Buchan Avenue frontage of the site. Early engagement with Telstra and submission of relevant applications is recommended to ensure network delivery aligns with the proposed development staging and to mitigate the risk of infrastructure-related delays to the project program.

Figure 6 Telstra Infrastructure & Legend



5.3 Carrier Cell Towers

According to Radio Frequency National Site Archive (RFNSA) below carriers are operational providing mobile telephony signal within the outdoors areas of the proposed site.

Figure 7 Radio Frequency National Site Archive (RFNSA)

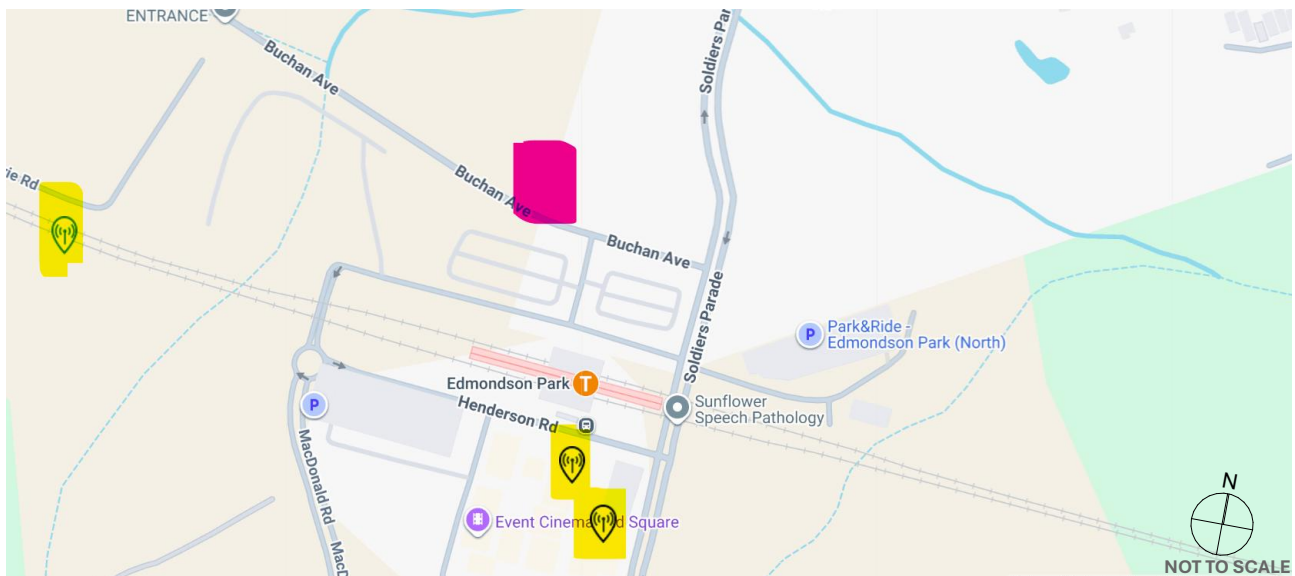


Table 3 Carrier Cell Towers

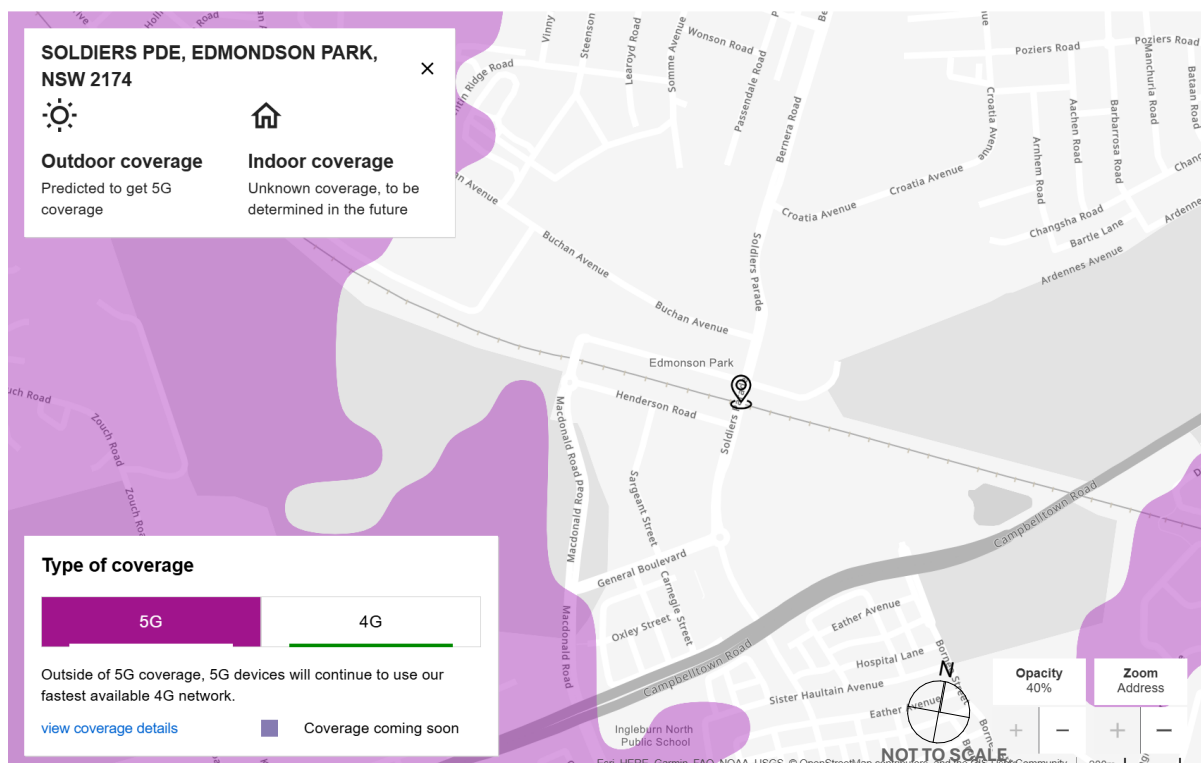
Tower Code	Operating Carriers	Address
2174005	Telstra	52 SOLDIERS PDE EDMONDSON PARK NSW 2174
2174006	Optus, Telstra, Optus	54 Soldiers Parade EDMONDSON PARK NSW 2174

5.3.1 Telstra - 5G Coverage

It is anticipated that Telstra 5G coverage is currently unavailable in the area. The coverage map indicates that 5G signal (shown in purple) is present in nearby outdoor zones, suggesting that the proposed property may receive some level of 5G coverage. However, 4G coverage is confirmed to be available throughout the area.

Given the scale of the proposed 15-storey residential building, there is a high likelihood of mobile signal dead zones within the structure. To mitigate this, it is recommended that a Distributed Antenna System (DAS) or similar in-building coverage solution be considered to enhance mobile telephony performance throughout the development. The client is to confirm whether this requirement should be incorporated into the design.

Figure 8 Telstra - 5G & 4G Coverage Map



5.4 New Works Associated with Telecommunications Infrastructure

The new development is proposed to be serviced from Buchanan Avenue via a future telecommunications pit, subject to carrier confirmation.

To avoid potential delays in the development timeline, it is strongly recommended that applications to relevant telecommunications providers be submitted as early as possible, once service requirements are identified and confirmed.

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. and Telstra is required to extend new services supply namely within the Buchan Street.

6. Water & Sewer Infrastructure

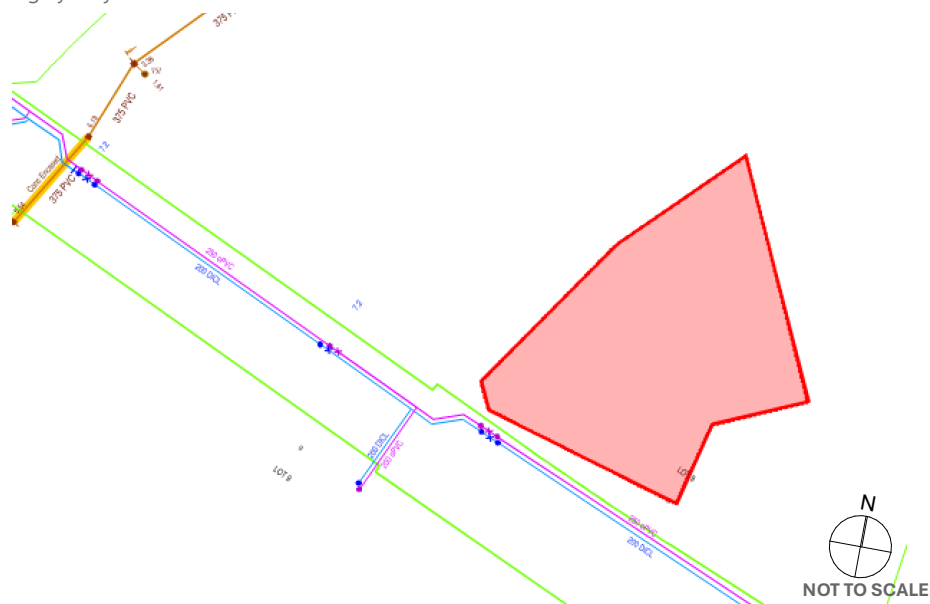
6.1 Existing Infrastructure

Dial Before You Dig (BYDA) information and Sydney Water asset records indicate that an existing potable water, recycled water, and wastewater network is located in the vicinity of the site.

The existing water and sewer network system around the site can be summarised as follows:

- > A 200 mm ductile iron cement lined (DICL) potable water main is located along Buchan Avenue, adjacent to the western boundary of the site, and includes regularly spaced fire hydrants.
- > A 250 mm oriented polyvinyl chloride (oPVC) recycled water main is located along Buchan Avenue, adjacent to the western boundary of the site, and includes regularly spaced hydrants
- > A 375 mm sewer main runs generally east–west along the northern side of Maxwell’s Creek and continues north of the site, including regular maintenance holes and connection points. The sewer transitions between PVC and polypropylene (PP) pipe materials along its alignment..

Figure 9 Existing Sydney Water Assets



6.2 Water and Sewer Max Demand Calculations

The below calculations demonstrate the expected average and maximum hydraulic demand of the proposed development. Using the guidelines provided by Sydney Water.

6.2.1 Stage 01 Water and Sewer Max Demand Calculations

- > The total site estimated average demand for potable water @ 73,050L/day and the average wastewater demand @ 65,329L/day. Refer to table 5
- > The total site estimated max demand for potable water @ 91,316L/day and the maximum wastewater demand @ 81,760L/day. Refer to table 6

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

Building Reference	Instruction on Key Metrics	Key Metric Value	Average Potable Water (L/day)	Average Wastewater Discharge (L/day)
Residential	Number of dwellings	172	72700	65000
Retail	Building area in square meters	231	350	329
Total			73,050	65,329

Table 5 Estimated max demand table (Allow 25% fluctuation)

Building Reference	Instruction on Key Metrics	Key Metric Value	Max Potable Water (L/day)	Max Wastewater Discharge (L/day)
Residential	Number of dwellings	172	90,876	81,250
Retail	Building area in square meters	231	440	420
Total			91,316	81,760

6.3 Existing Water Services

ADP has obtained pressure and flow enquiries from Sydney Water for the following existing water services located along Buchan Avenue:

- > 200 DICL Potable cold water main on Buchan Avenue (western Side)
- > 250 oPVC Recycle cold water main on Buchan Avenue (western Side)

Table 6 Potable Water Main

Buchan Avenue Ø200mm DICL Potable Water Main		
Pressure expected to be maintained for 95% of the time	Flow (L/sec)	Pressure head (m)
	10	45
	15	45
	20	45
	25	44
	30	44
	40	44
	50	43
	60	42

Table 7 Recycled Water Main

Buchan Avenue Ø250mm DICL Recycled Water Main		
	Flow (L/sec)	Pressure head (m)
	0.66	50

The results for the potable water main indicate adequate flow for the development site.

6.4 Sewer Services

An existing 375 mm Sydney Water sewer main is located along the northern side of Maxwell's Creek, in the vicinity of the site.

A Sydney Water accredited Water Servicing Coordinator (WSC) will be required to coordinate the design and approval of any sewer works necessary to service the proposed development. This process will include preparation and lodgement of a Section 73 Certificate of Compliance application to confirm the servicing strategy, connection points, and any required extension or amplification works.

Any proposed retail or food tenancies that generate trade waste will require a Trade Waste Agreement with Sydney Water, including provision of appropriate pre-treatment infrastructure. This will be addressed during the detailed design and construction approval stages.

6.5 Water & Sewer Services Staging

The proposed development is intended to be delivered as a single stage. No interim or temporary staging of water or sewer infrastructure is currently anticipated.

6.6 Items to be resolved

The following items will be confirmed during detailed design development and through the authority approval process:

- > Engagement of a Sydney Water–accredited WSC
- > Lodgement and approval of a Section 73 Certificate of Compliance application
- > Final water and sewer connection points
- > Confirmation of sewer junction invert levels
- > Final water and sewer service sizing
- > Detailed reticulation strategy to service the site
- > Trade waste servicing requirements (if applicable)

7. Gas Infrastructure

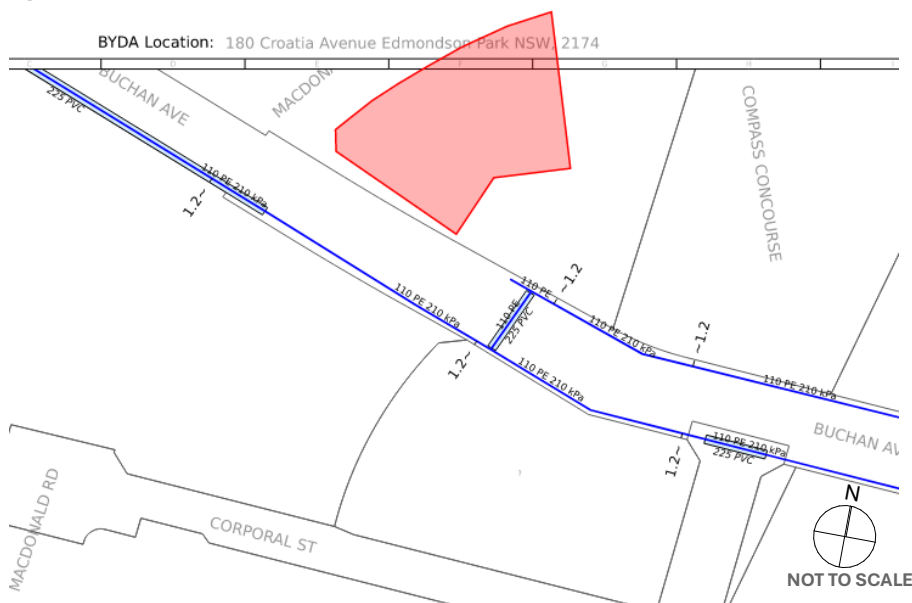
7.1 Existing Infrastructure

The BYDA information provided by Jemena indicates there is an existing gas network.

The existing gas network system around the site can be summarised as follows:

- > A 110 mm PE (Polyethylene) network gas main (210 kPa) is located on the southern side of the site within Buchan Avenue, running east-west. It then branches across Buchan Road and continues east.

Figure 10 Gas Infrastructure



7.2 Natural Gas

The proposed development is intended to operate as a fully electrified site. Accordingly, no new natural gas connections or upgrades to the existing gas network are proposed as part of the development.

Appendix A

BYDA Documents

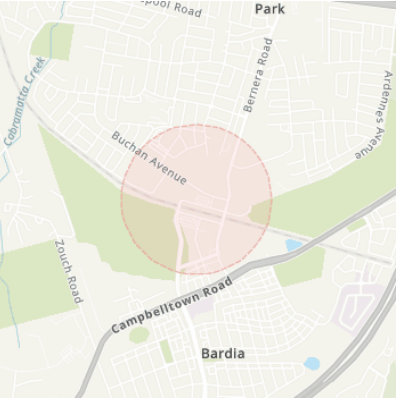
Contact Details

Contact	Contact number	Company	Enquirer ID
ADP Consulting	(02) 8203 5447	ADP Consulting	3171409
Email		Address	
sydneyutilities@adpconsulting.com.au		Level 3 8 Spring Street Sydney NSW 2000	

Job Site and Enquiry Details

WARNING: The map below only displays the location of the proposed job site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.

Enquiry date	Start date	End date	On behalf of	Job purpose	Locations	Onsite activities
16/09/2025	23/09/2025	30/09/2025	Private	Excavation	Both Road, Nature Strip, Footpath	Manual Excavation, Mechanical Excavation



Check that the location of the job site is correct. If not, you must submit a new enquiry.

If the scope of works change or plan validity dates expire, you must submit a new enquiry.

Do NOT dig without plans. Safe excavation is your responsibility. If you don't understand the plans or how to proceed safely, please contact the relevant asset owners.

User Reference	Address	Notes/description
SYD3927	180 Croatia Avenue Edmondson Park NSW 2174	Block 20A Edmondson Park Affordable Housing Project

Your Responsibility and Duty of Care

- Lodging an enquiry does not authorise project commencement.** Before starting work, you must obtain all necessary information from all affected asset owners.
- If you don't receive plans within 2 business days, contact the asset owner & quote their sequence number.
- Always follow the 5Ps of Safe Excavation (page 2), and locate assets before commencing work.
- Ensure you comply with State legislative requirements for Duty of Care and safe digging.
- If you damage an underground asset, you MUST advise the asset owner immediately.
- By using the BYDA service, you agree to the [Privacy Policy](#) and [Term of Use](#).
- For more information on safe digging practices, visit www.byda.com.au

Asset Owner Details

Below is a list of asset owners with underground infrastructure in and around your job site. It is your responsibility to identify the presence of these assets. Plans issued by Members are indicative only unless specified otherwise. Note: not all asset owners are registered with BYDA. You must contact asset owners not listed here directly.

Referral ID (Seq. no)	Authority Name	Phone	Status
261230603	Endeavour Energy	(02) 9853 4161	NOTIFIED
261230598	Jemena Gas West	1300 880 906	NOTIFIED
261230592	Liverpool City Council	1300 362 170	NOTIFIED
261230593	NBN Co NswAct	1800 687 626	NOTIFIED
261230594	OptiComm Ltd (NSW)	1300 137 800	NOTIFIED
261230599	Optus and or Uecomm Nsw	1800 505 777	NOTIFIED
261230597	Sydney Trains Illawarra	(02) 9848 9578	NOTIFIED
261230596	Sydney Trains Illawarra	(02) 9848 9578	NOTIFIED
261230601	Sydney Water	13 20 92	NOTIFIED
261230600	Telstra NSW Central	1800 653 935	NOTIFIED
261230602	TPG Telecom (NSW)	1800 786 306	NOTIFIED
261230595	Transport for NSW	(02) 9983 3030	NOTIFIED

END OF UTILITIES LIST



Plan

Plan your job. Use the BYDA service at least one day before your job is due to begin, and ensure you have the correct plans and information required to carry out a safe project.



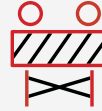
Prepare

Prepare by communicating with asset owners if you need assistance. Look for clues onsite. Engage a skilled Locator.



Pothole

Potholing is physically sighting the asset by hand digging or hydro vacuum extraction.



Protect

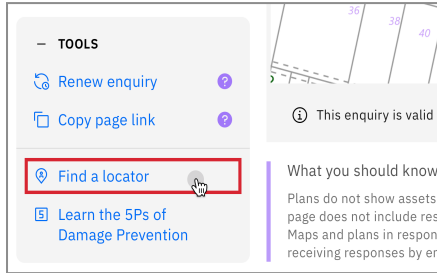
Protecting and supporting the exposed infrastructure is the responsibility of the excavator. Always erect safety barriers in areas of risk and enforce exclusion zones.



Proceed

Only proceed with your excavation work after planning, preparing, potholing (unless prohibited), and having protective measures in place.

Engage a skilled Locator



When you lodge an enquiry you will see skilled Locators to contact

Visit the Certified Locator website directly and search for a locator near you

certloc.com.au/locators

Get FREE Quotes for Contractors & Equipment Fast



Use isseekplant's FREE marketplace to get quotes for the equipment or services you need on your project. Compare quotes from trusted local contractors and get your project done on time and in budget.

1. Fill out your job details in our FREE quick quote form.
2. We send the request to trusted local contractors.
3. The local contractors will contact you directly with quotes

GET QUOTE

Use isseekplant to find trusted contractors near you today, visit:
blog.isseekplant.com.au/byda-isp-get-quotes

Book a FREE BYDA Session



BYDA offers free training sessions to suit you and your organisation's needs covering safe work practices when working near essential infrastructure assets. The free sessions are offered in two different formats - online and face-to-face.

To book a session, visit:
byda.com.au/contact/education-awareness-enquiry-form

BOOK NOW

BYDA Underground Search Report

Date: 16 Sep 2025

BYDA Sequence No: 261230603

BYDA Job No: 51193194

ENDEAVOUR ENERGY ASSETS AFFECTED

ADP Consulting	ADP Consulting
Level 3 8 Spring Street, Sydney NSW 2000	
3171409	80k57xd4vej1ax.tz5flxoc0bl6ah@smarterwx-mail.byda.com.au
61282035447	
180 Croatia Avenue, Edmondson Park NSW 2174	

UNDERGROUND ASSETS ARE PRESENT

WARNING

- All electrical apparatus shall be regarded as live until proved de-energised.
- Electricity Supply Act 1995
- 131 003
- 20
- may not
- operators' asset such as a pillar or column,
- 2007
- near Endeavour Energy's underground assets.

Information Provided by Endeavour Energy

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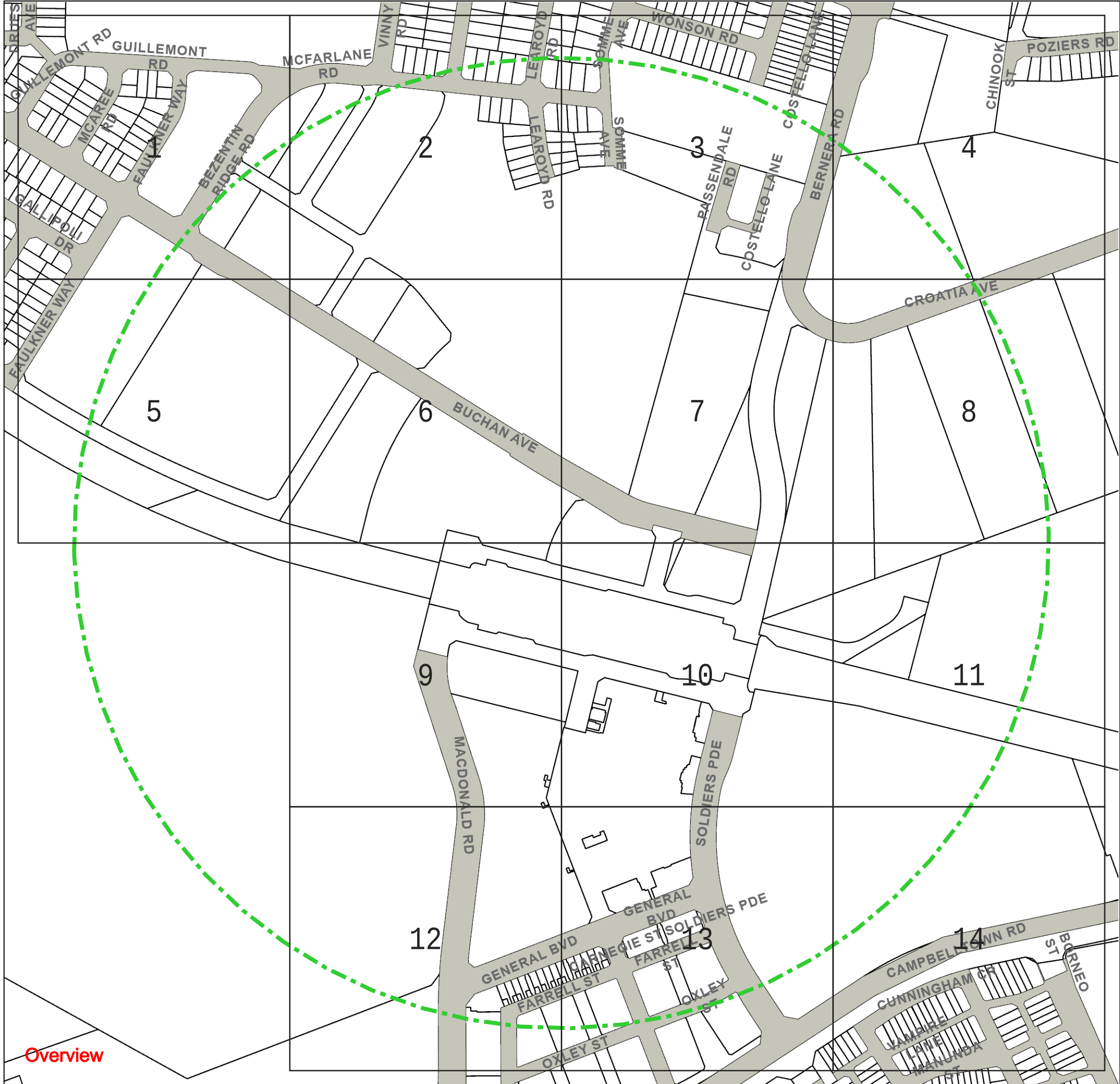
1

[illegible]

Working in the ad and underground dance material"		R
		R

Warning Action Required

Minimum 10 WORKING Days before commencing excavation



- 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 earthing and 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.
 - ❑ Our plans may not show the presence of all cables, pipes and plant. Endeavour Energy plans do not depict any underground consumer mains. These assets are the conductors between the connection point at a network operators' asset such as a pillar or column, and the customer Service Equipment Enclosure
 - ❑ It should be noted that adjacent to any network operator asset, there may be multiple underground consumer mains that feed from a pillar or column. Those underground consumer mains and any other underground services will need to be positively identified prior to mechanical excavation in the vicinity. Please refer to the Work Near Underground Assets Guideline published in 2007 by the WorkCover Authority.
 - ❑ 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 as a result of changes to road, footpath or surface levels subsequent to installation.
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OVERVIEW ONLY
ASSETS ARE ONLY SHOWN ON
DETAILED TILES (PAGES)



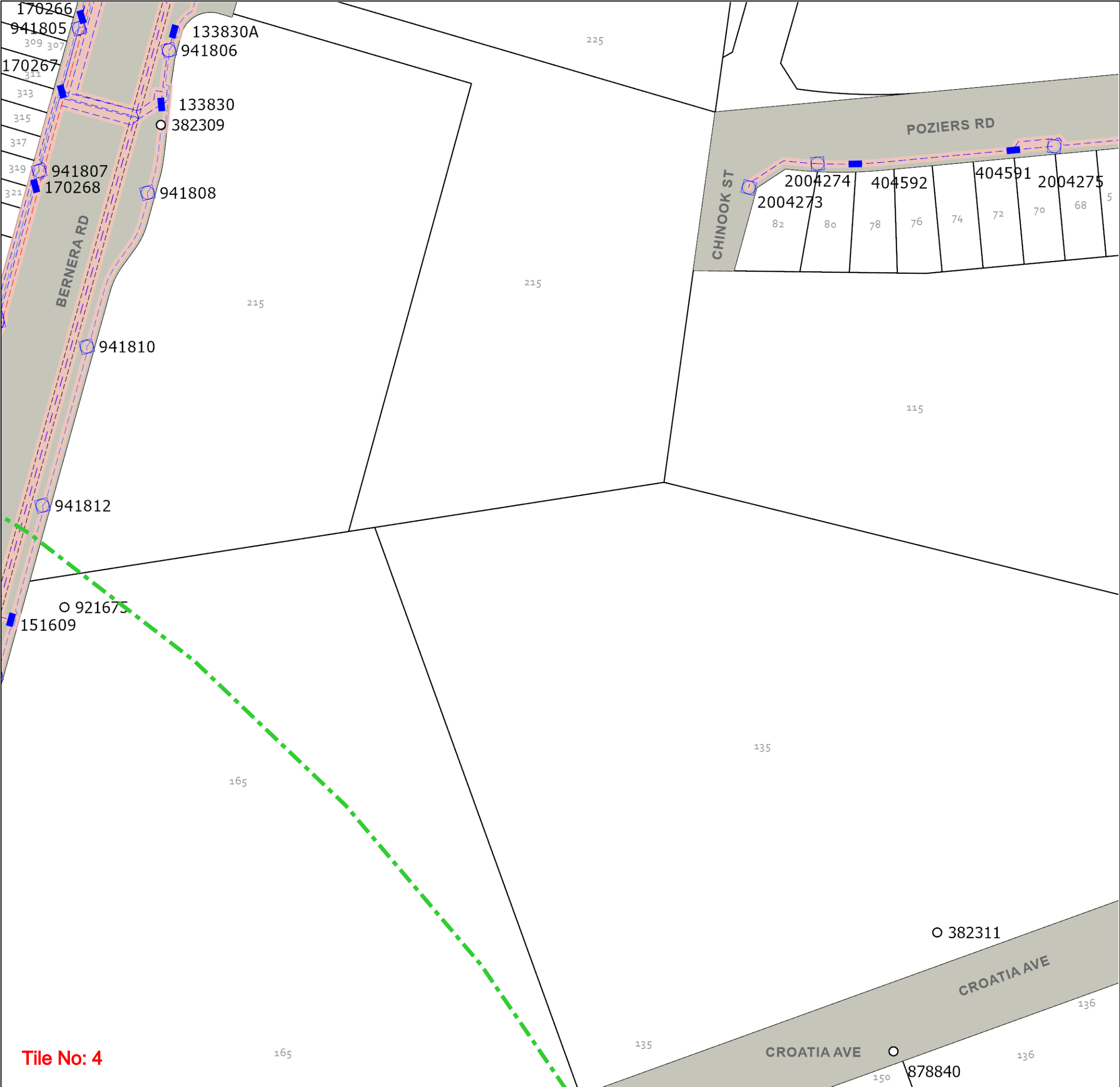
NOT TO SCALE

BYDA Sequence No.: 261230603

Issued Date: 16 Sep 2025

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10 WORKING DAYS BEFORE COMMENCING

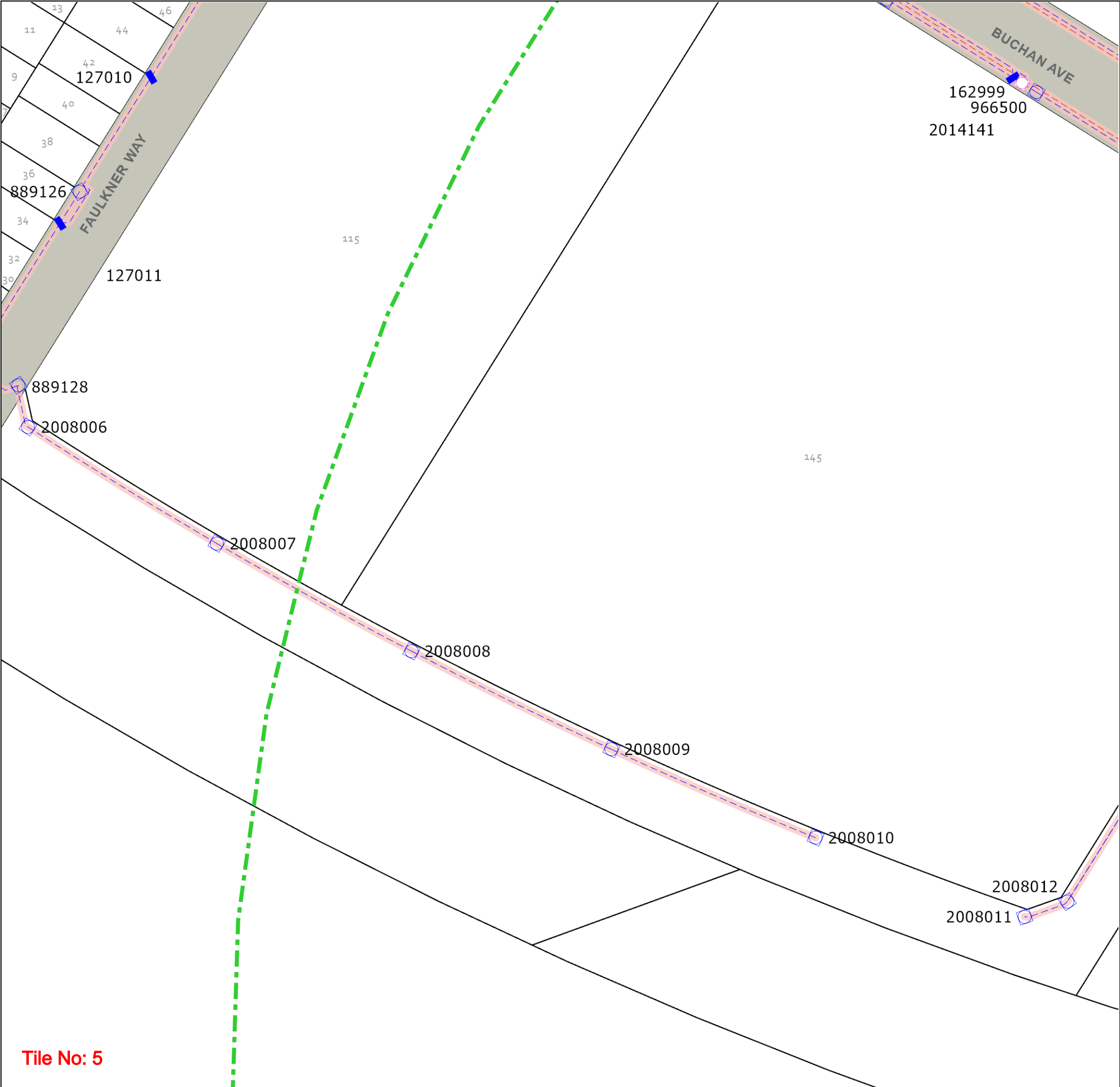
ENDEAVOUR ENERGY MAP LEGEND			
Hazard Area	Conductor	Column	Substation
	HV		
Asbestos	LV	Pole	Zone Substation
Cubicle	SL	Pillar	<i>Note: Pink features may be in construction.</i>
Pit	TR		
	Pilot Cable		
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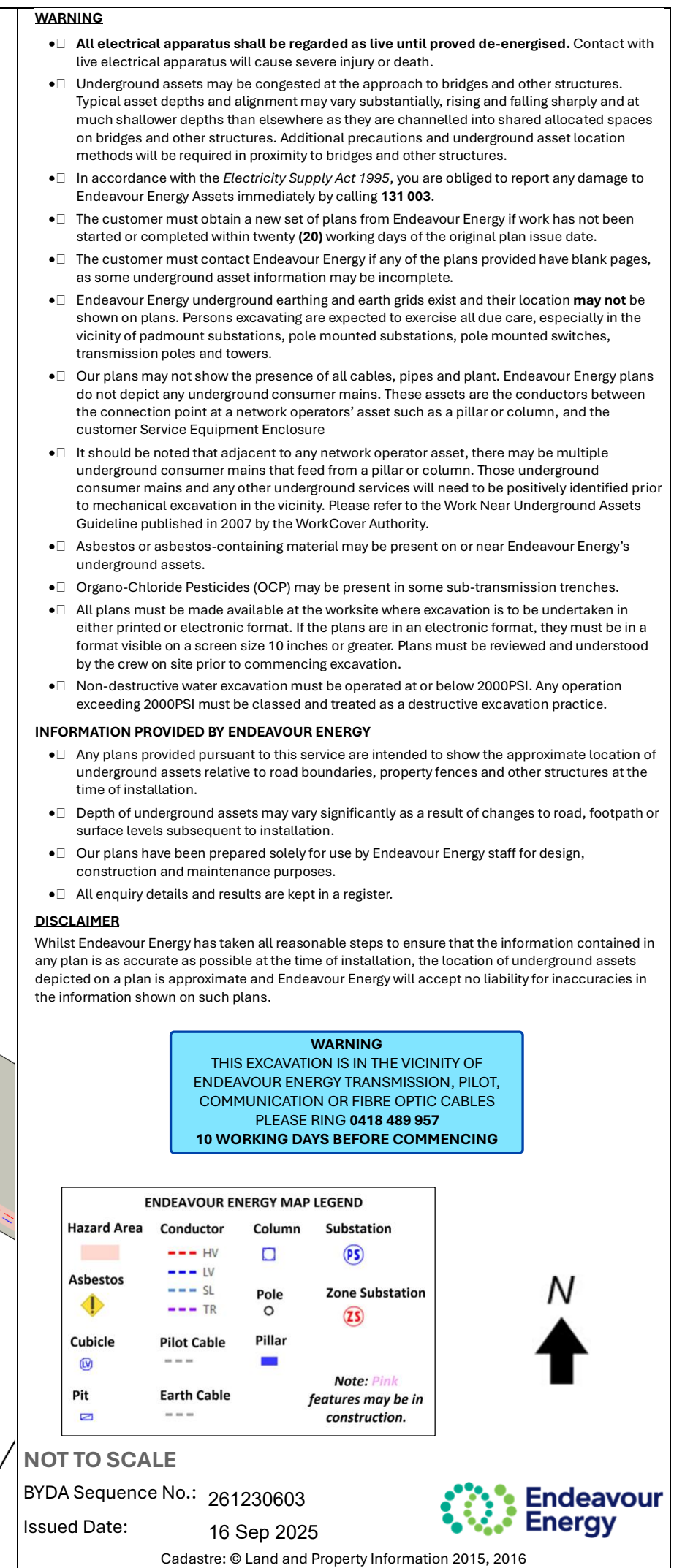
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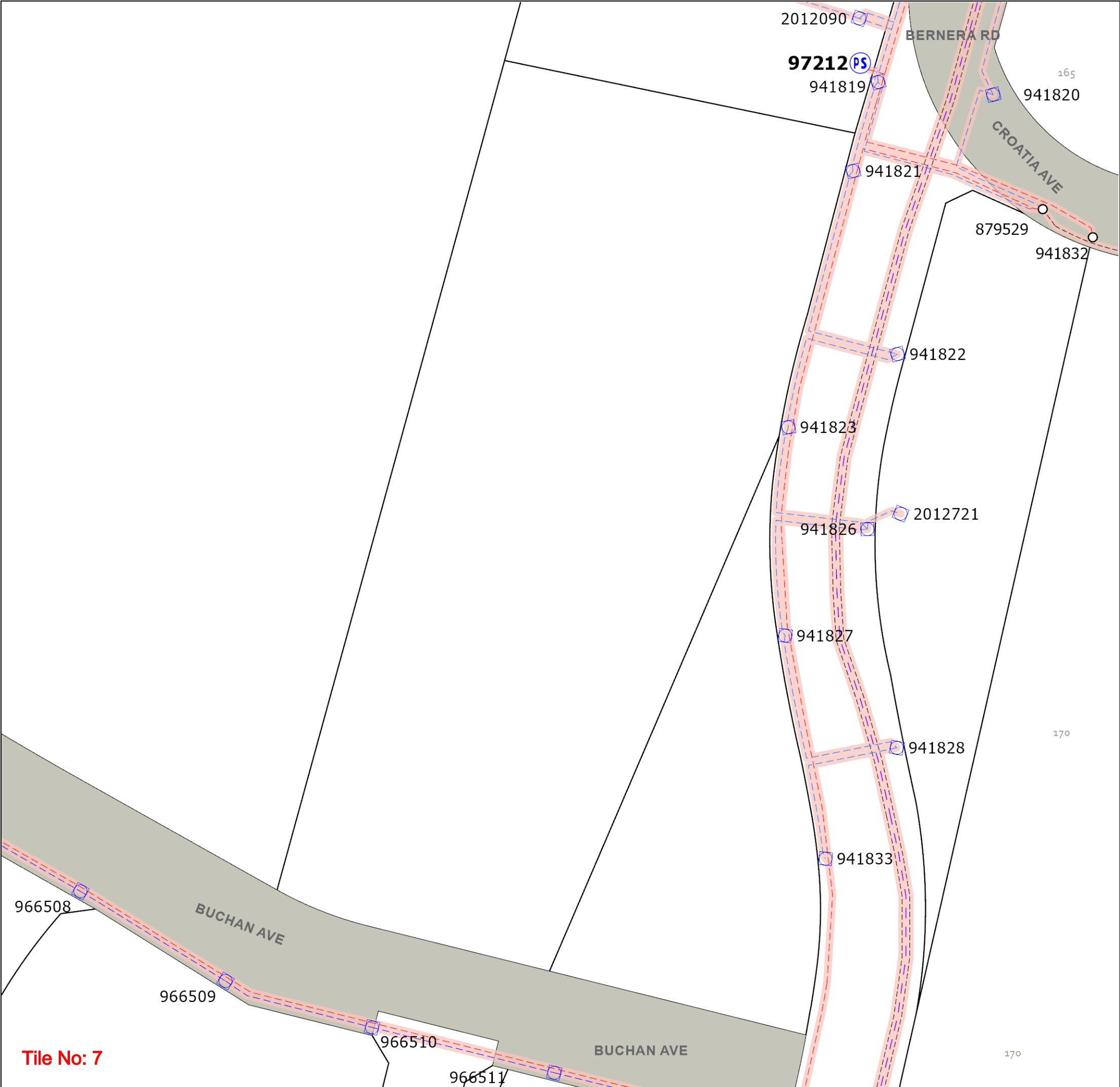
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Hazard Area	HV	Column	Substation
Asbestos	LV	Pole	Zone Substation
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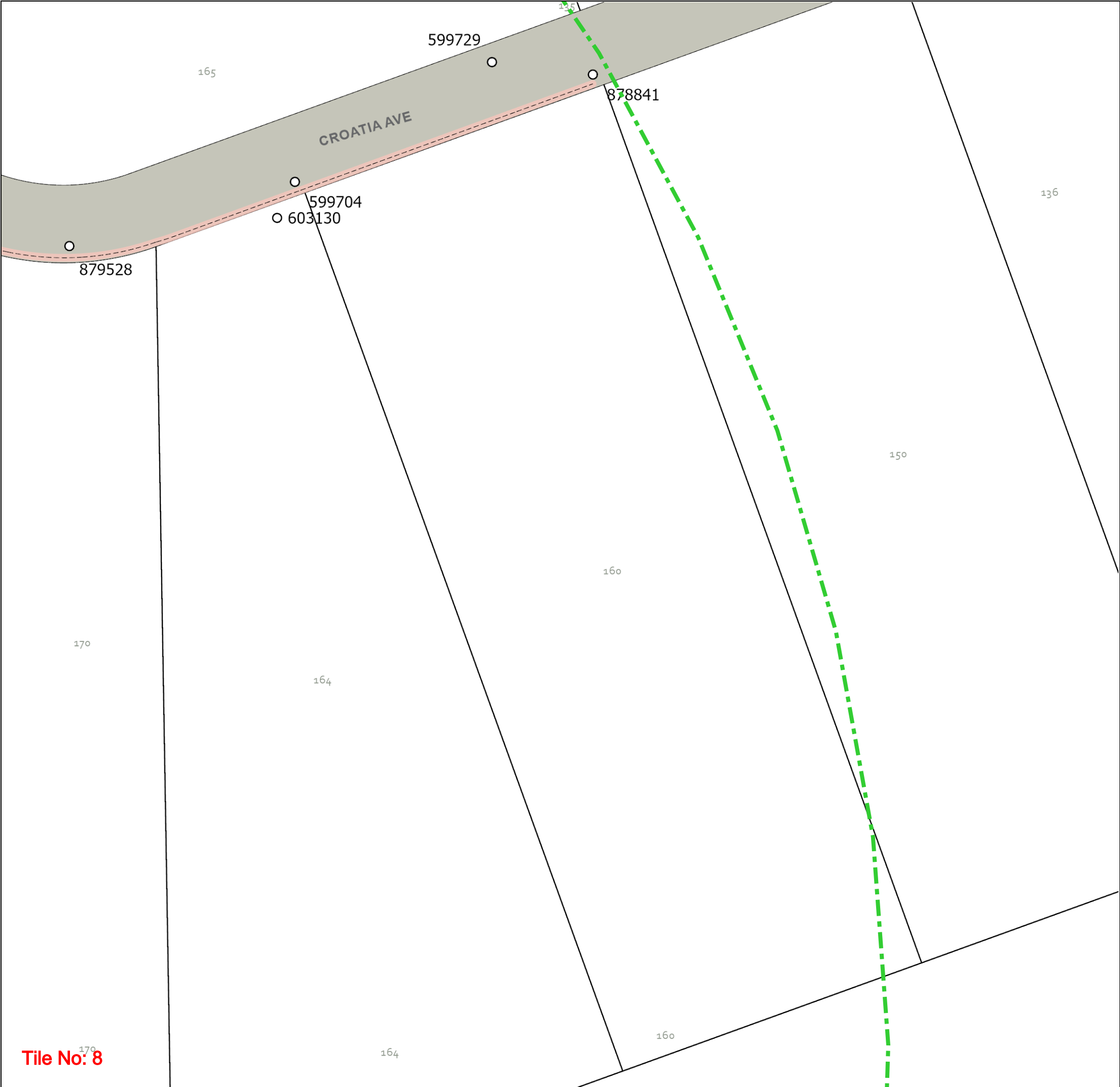
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Hazard Area	HV	Column	Substation
Asbestos	LV	Pole	Zone Substation
Cubicle	TR	Pole	
Pit	Pilot Cable	Pillar	
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NOT TO SCALE

BYDA Sequence No.: 261230603

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Tile No: 8

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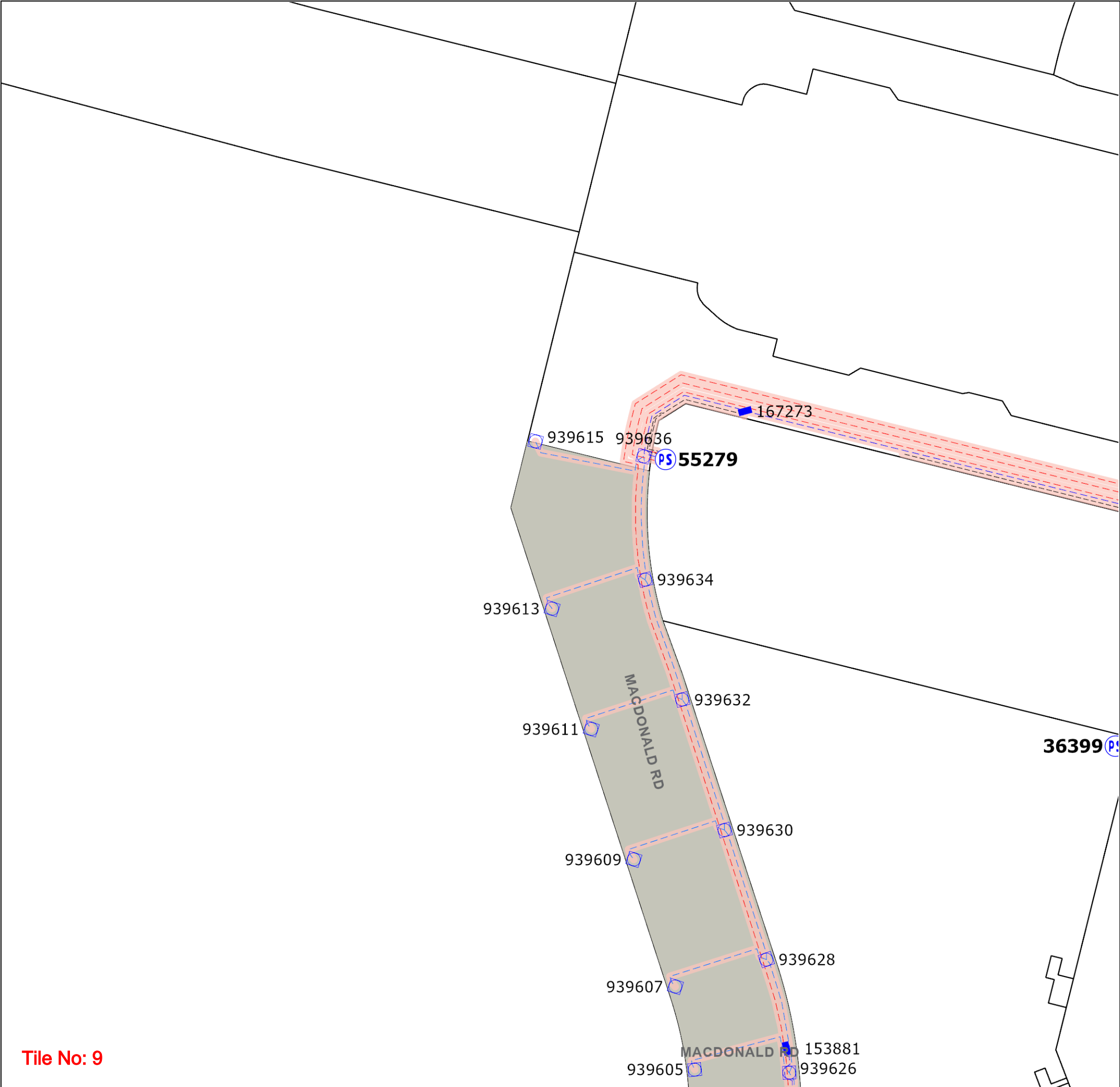
ENDEAVOUR ENERGY MAP LEGEND			
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Asbestos	LV	Pole	Zone Substation
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Cubicle	TR	Pillar	<i>Note: Pink features may be in construction.</i>
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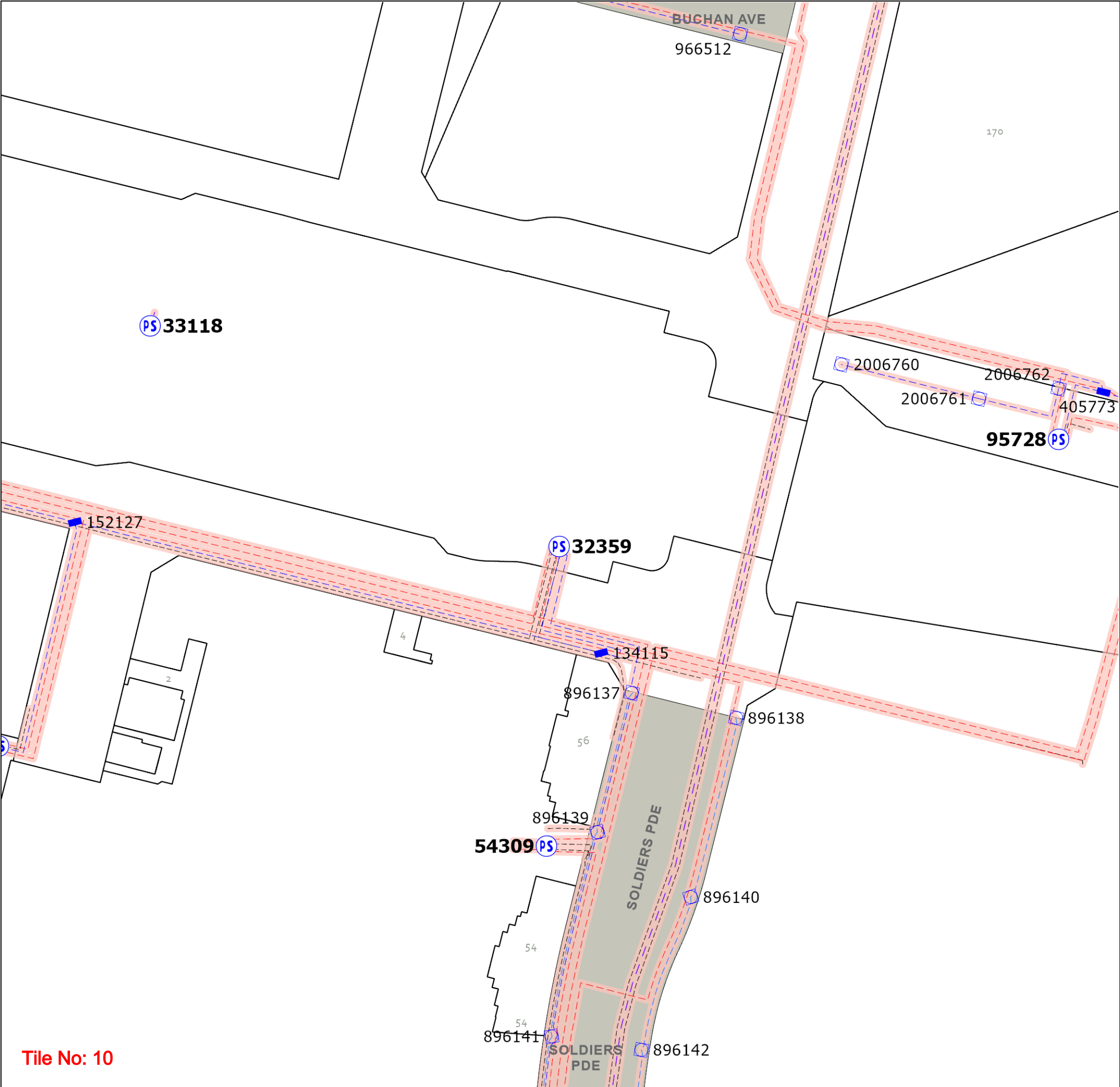
ENDEAVOUR ENERGY MAP LEGEND			
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Asbestos	--- HV	□	PS
!	--- LV	Pole	Zone Substation
	--- SL	○	ZS
	--- TR	Pillar	
Cubicle	Pilot Cable		Note: Pink features may be in construction.
IV	---		
Pit	Earth Cable		

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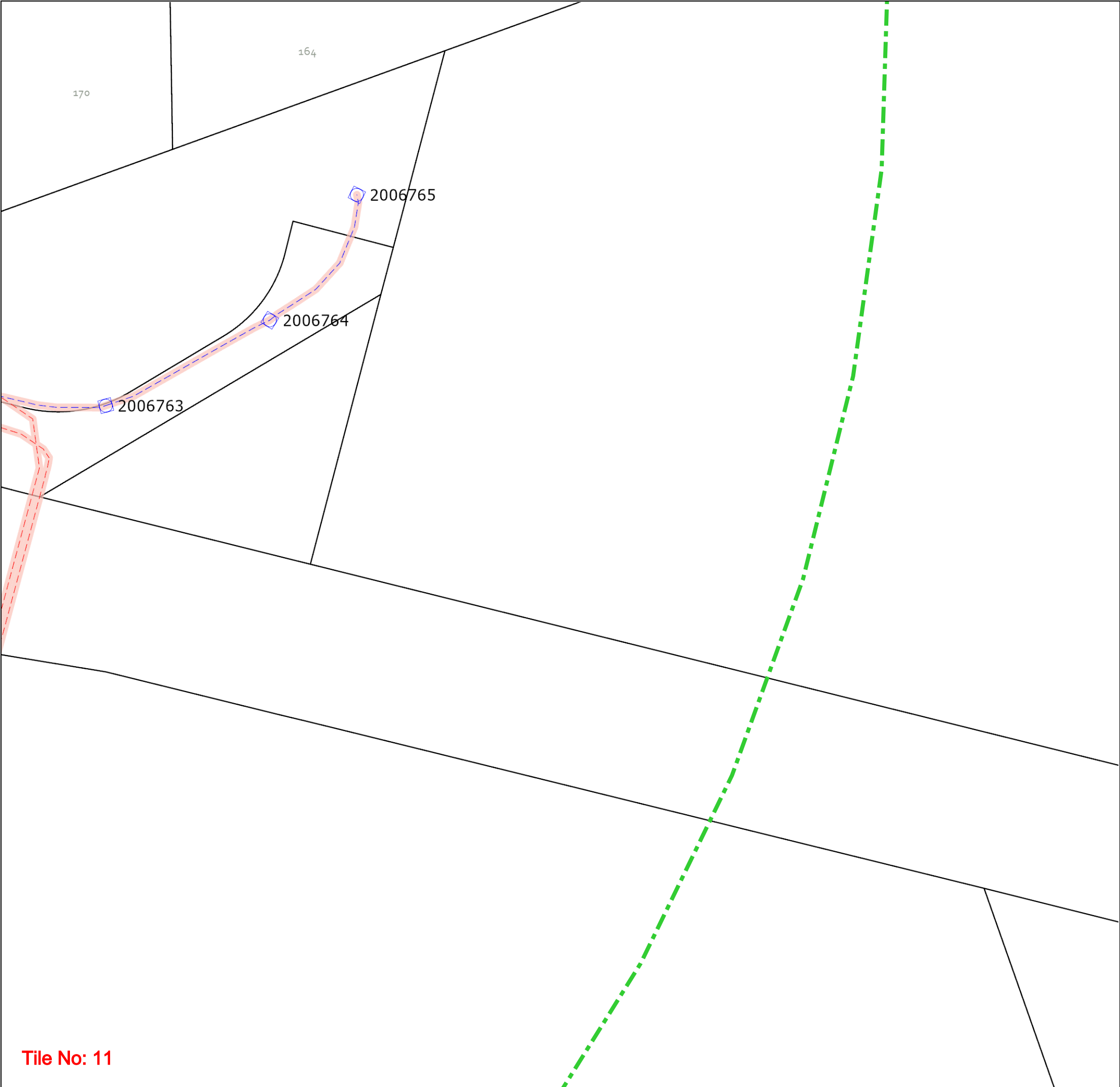
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Hazard Area	HV	Column	PS
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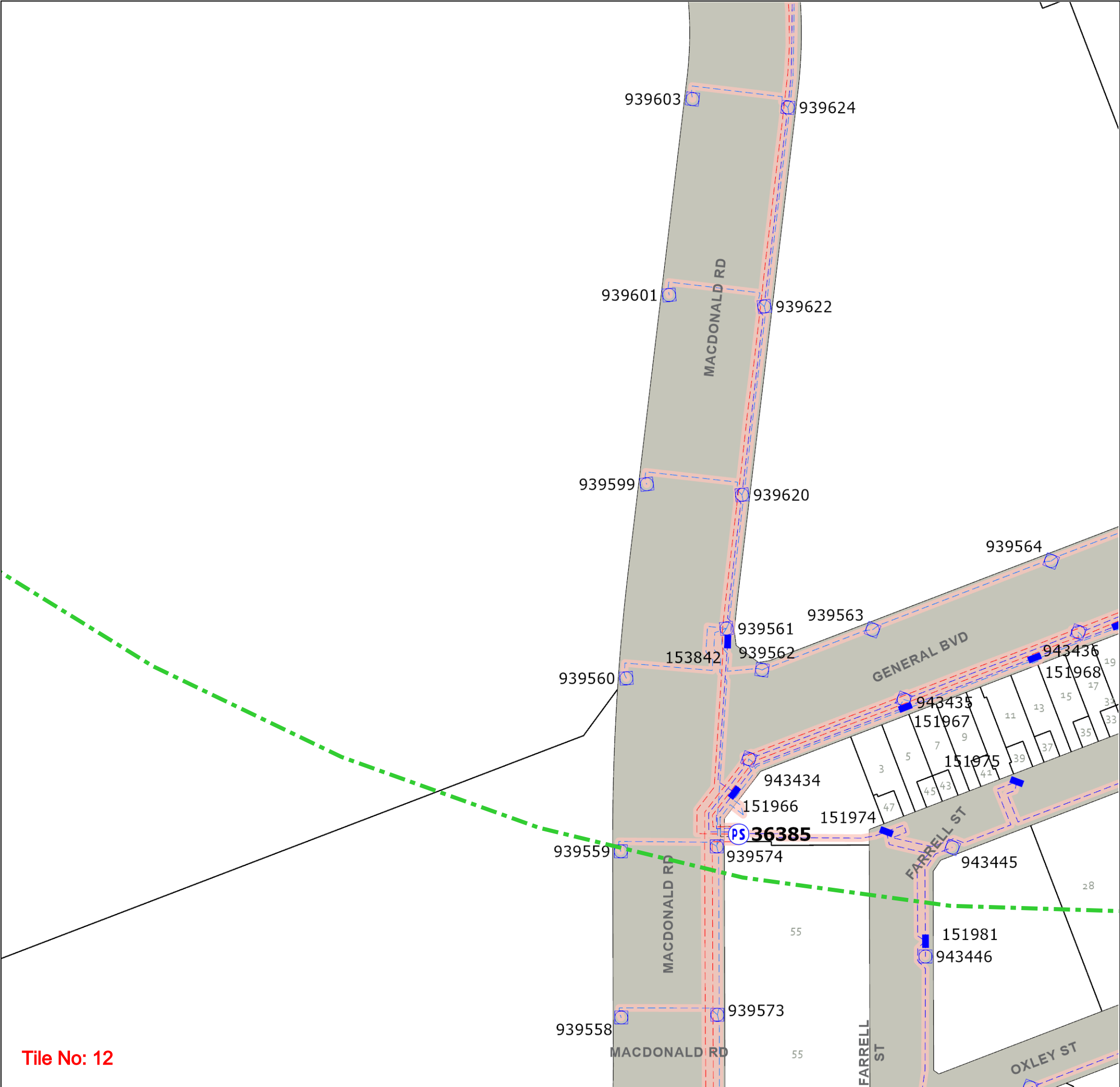
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ENDEAVOUR ENERGY MAP LEGEND			
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Asbestos	LV	Pole	Zone Substation
	SL		
Cubicle	TR	Pillar	<i>Note: Pink features may be in construction.</i>
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Pit	Earth Cable		





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 - ❑ 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 earthing and earth grids 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.
 - ❑ Our plans may not show the presence of all cables, pipes and plant. Endeavour Energy plans do not depict any underground consumer mains. These assets are the conductors between the connection point at a network operators' asset such as a pillar or column, and the customer Service Equipment Enclosure
 - ❑ It should be noted that adjacent to any network operator asset, there may be multiple underground consumer mains that feed from a pillar or column. Those underground consumer mains and any other underground services will need to be positively identified prior to mechanical excavation in the vicinity. Please refer to the Work Near Underground Assets Guideline published in 2007 by the WorkCover Authority.
 - ❑ 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 as a result of changes to road, footpath or surface levels subsequent to installation.
 - ❑ Our 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 any plan is as accurate as possible at the time of installation, the location of underground assets depicted on a plan is approximate and Endeavour Energy will accept no liability for inaccuracies in the information shown on such plans.

WARNING

THIS EXCAVATION IS IN THE VICINITY OF
ENDEAVOUR ENERGY TRANSMISSION, PILOT,
COMMUNICATION OR FIBRE OPTIC CABLES
PLEASE RING **0418 489 957**
10 WORKING DAYS BEFORE COMMENCING

ENDEAVOUR ENERGY MAP LEGEND			
Hazard Area	Conductor	Column	Substation
Hazard Area	HV	Column	Substation
Asbestos	LV	Pole	Zone Substation
Cubicle	SL	Pillar	<i>Note: Pink features may be in construction.</i>
Pit	TR	Pilot Cable	
	Earth Cable		

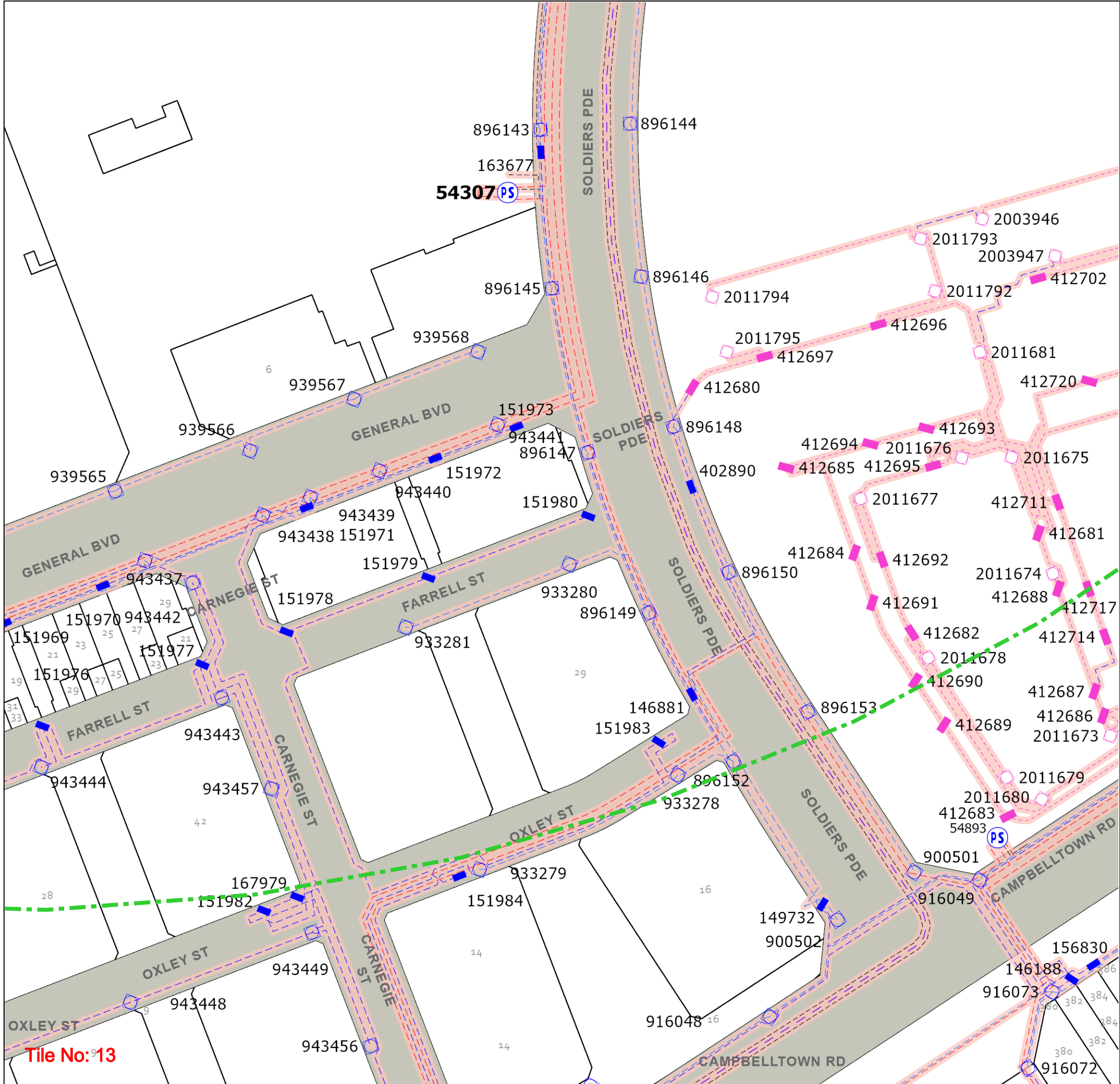


NOT TO SCALE

BYDA Sequence No.: 261230603

Issued Date: 16 Sep 2025

Cadastre: © Land and Property Information 2015, 2016



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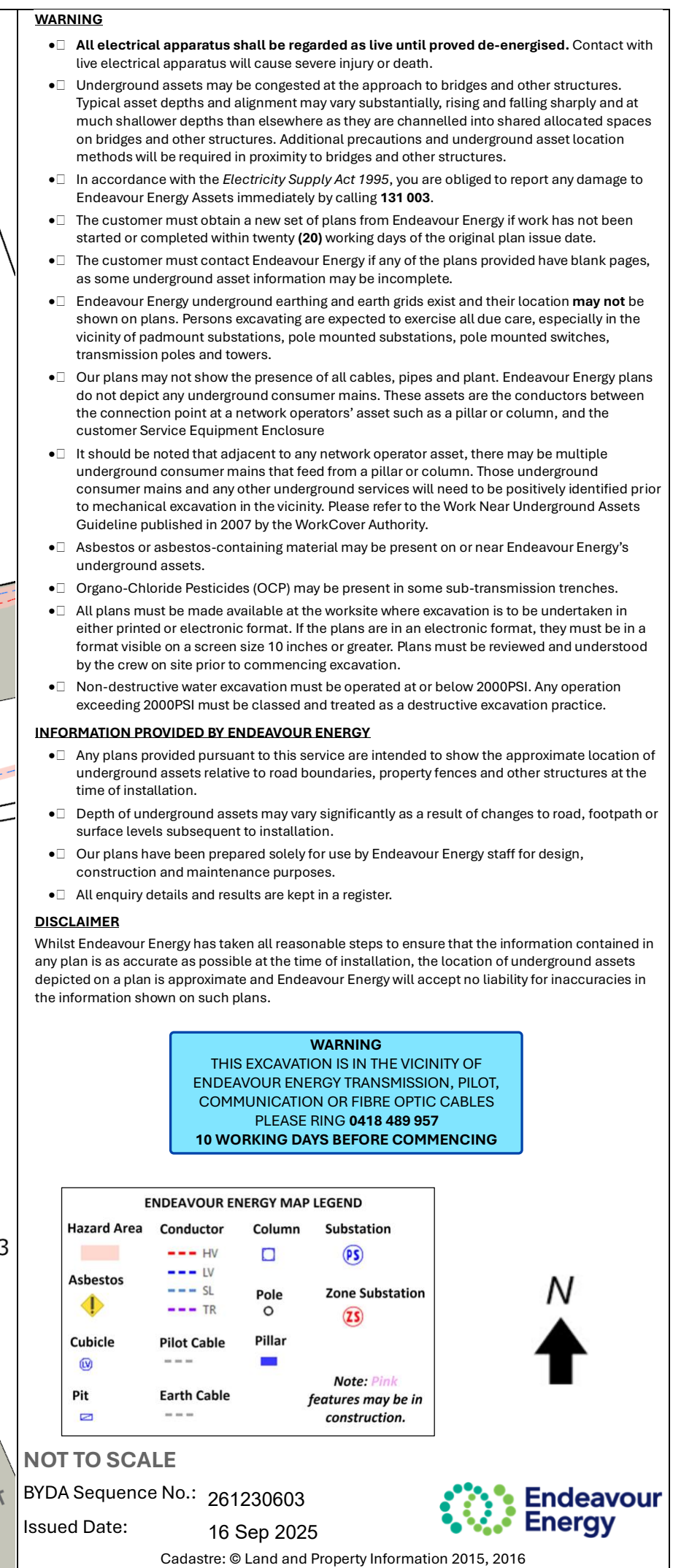
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PLEASE RING **0418 489 957**
10 WORKING DAYS BEFORE COMMENCING

ENDEAVOUR ENERGY MAP LEGEND			
Hazard Area	Conductor	Column	Substation
Asbestos	--- HV	□	PS
⚠	--- LV	Pole	Zone Substation
	--- SL	○	Ⓜ
Cubicle	--- TR	Pillar	
Ⓜ	Pilot Cable	■	
Pit	Earth Cable		
Ⓜ	---		

Note: Pink features may be in construction.





**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.
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DISCLAIMER

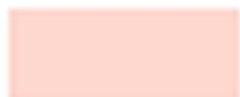
Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in any plan is as accurate as possible at the time of installation, the location of underground assets depicted on a plan is approximate and Endeavour Energy will accept no liability for inaccuracies in the 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.

ENDEAVOUR ENERGY MAP LEGEND

Hazard Area



Conductor



HV



LV



SL



TR

Column



Pole



Substation



Zone Substation



Asbestos



Cubicle



Pilot Cable



Pillar



Pit



Earth Cable



Note: *Pink features may be in construction.*

GUIDELINE

GUIDELINE TO DESIGNING, CONSTRUCTING AND OPERATING AROUND THE EXISTING AS4645 NATURAL GAS NETWORK

GAS-9899-GL-CN-001

Revision Number: 1

Revision Date: 11/03/2025

AUTHORISATION

Reviewed by

Name	Job Title	Signature	Date
Richard Chawa	Principal Engineer – Distribution	<i>R Chawa</i>	12 / 03 /2025

Approved by

Name	Job Title	Signature	Date
John Martin	Engineering Support Manager – Gas Distribution	<i>John Martin</i>	13/03/2025

PUBLIC

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DOCUMENT HISTORY

Revision	Date	Author	Description of Changes
A	30/05/2022	Andrew Walker	Draft
0	22/07/2022	Andrew Walker	Final
1	11/3/2025	Bruno Martino	Third Party query process updated – My Portal Application

OWNING FUNCTIONAL GROUP & DEPARTMENT / TEAM

Gas Distribution : Asset Management

REVIEW DETAILS

Review Period: Review Date + 3 years

Next Review Due: December 2025

TABLE OF CONTENTS

1	INTRODUCTION.....	5
1.1	GAS NETWORKS AND MANAGING RISK	5
1.2	PURPOSE	5
1.3	SCOPE	5
1.4	TERMS & DEFINITIONS	6
1.5	REFERENCE DOCUMENTS.....	7
1.6	EMERGENCY CONTACT DETAILS.....	7
2	DUTY OF CARE FOR WORKING AROUND JEMENA GAS NETWORKS	8
3	APPROVAL PROCESS	9
3.1	JEMENA GAS PORTAL	9
3.2	JEMENA ENGINEERING REVIEW	9
4	GENERAL PRINCIPLES FOR CONSTRUCTION ACTIVITIES	10
4.1	ROAD RESERVES AND PARK LAND	10
4.2	CONSTRUCTION VEHICLES CROSSING GAS ASSETS	10
4.3	EXCAVATION.....	10
4.4	STOCKPILING	11
4.5	SEPARATION DISTANCES.....	11
4.5.1	UTILITIES.....	11
4.5.1.1	TRENCHING (OPEN CUT).....	11
4.5.1.2	TRENCHLESS (HORIZONTAL DIRECTION DRILL, HORIZONTAL BORE, ETC).....	12
4.5.2	STRUCTURES.....	12
4.6	HIGH VOLTAGE ELECTRICAL INSTALLATION	12
4.7	ISOLATED MAINS.....	13
4.8	REMOVAL OF CONCRETE CAPPING	13
4.9	GAS MAIN MARKERS.....	13
4.10	CP TEST POINTS, CP GROUND BEDS, CP CABLES AND KIOSKS	13
4.11	BLASTING	13
4.12	SUBSIDENCE	14
4.13	PROLONGED JEMENA PIPELINE EXPOSURE.....	14
4.14	DEPTH OF COVER	14
4.15	BACKFILLING	14
4.16	COMPACTION OVER GAS ASSETS.....	15
4.17	VIBRATION	15
4.18	TREE PLANTING	15
4.19	POST CONSTRUCTION PROTECTION MEASURES	15

5	TERMS & DEFINITIONS	15
6	REFERENCES.....	17
6.1	INTERNAL	17
6.2	EXTERNAL	17
7	APPENDICES	18
7.1	OPERATING LIMITS FOR THE APPLICATION OF VACUUM EXCAVATION AROUND BURIED NATURAL GAS MAINS	18
7.2	COMPACTION REQUIREMENTS	19
7.3	TREE PLANTING REQUIREMENTS	20
7.4	SUBSIDENCE RISK CONTROL PROCEDURES	21

1 INTRODUCTION

1.1 GAS NETWORKS AND MANAGING RISK

Jemena operates and maintains gas distribution networks throughout NSW and ACT. These networks operate at gas pressures ranging from 2kPa to 1050kPa. Failure to follow the guidelines listed in this document may lead to damage to these gas distribution networks, resulting in Catastrophic consequences, loss of life, and major damage to property and infrastructure as well as loss of gas supply to thousands of gas consumers.

To manage the risk of damage to gas networks from construction activity, Jemena participates in the Before You Dig Australia (Visit: www.byda.com.au) system and provides information to Third Parties planning to perform work around Jemena networks. Our Secondary and Critical gas mains are continuously patrolled via ground patrol, and monitored 24/7 by a Control System.

To make an encroachment enquiry for any work potentially near a gas main, the first step is to lodge a BYDA enquiry. If the BYDA enquiry identifies work near a Jemena asset, you will be issued with a response document by the BYDA system. This response document will provide detail on the process to proceed.

For Jemena Gas Networks (NSW) and EVO Energy Network (ACT) assets, this next step will be to book a Jemena Representative to attend site and to review the proposed work. Depending on the complexity of the job, this may result in further detail being required by Jemena before the proposed work can proceed. To progress this step, an enquiry must be registered via the Jemena Gas Portal located at the following address:

myportal.jemena.com.au

For the remainder of Jemena's gas assets, the process to proceed with Jemena assessment and approval of your proposed work is to review the response document. A Jemena representative will then make contact regarding your proposed work, however, if this contact is not received, the Third Party is not authorised to undertake any work and written Jemena consent must be sought by contacting the appropriate Jemena representative listed on the BYDA response.

1.2 PURPOSE

This document has been developed to provide general guidelines to assist the Third Party in their design/construction proposal prior to submitting it to Jemena for review.

This document does NOT authorise the Third Party to carry out any construction activities unless the design/construction proposal has been reviewed, assessed and accepted by Jemena.

1.3 SCOPE

This document shall be limited to AS/NZS 4645 assets (mains, services, and district regulator sets with an operating pressure $\leq 1050\text{kPa}$).

For AS/NZS 2885 assets ($>1050\text{kPa}$), please refer to GAS-960-GL-PL-001 – Designing, Constructing and Operating Assets Near Jemena Gas Pipelines.

For Boundary Regulator Sets, Meter Sets, and services within properties, with an operating pressure $\leq 400\text{kPa}$, please refer to the Jemena Network Operator Rules.

1.4 TERMS & DEFINITIONS

Term	Definition
Compaction	Backfilling and compaction of pipe in accordance with Jemena's requirements.
Concrete capping	A physical protection measure made of concrete placed above the gas asset, applied when normal depths of cover cannot be achieved.
Concrete slab	A concrete surface layer, e.g. Driveway, footpath, roadway.
CP	Cathodic Protection
Critical Main	A gas main that is a single source of supply to a large number of gas customers.
BYDA	Before You Dig Australia
DRS	District Regulator Set
Easement	An easement is a form of tenure that is acquired by Jemena to provide protection to its high pressure gas assets. Easements give Jemena the right to use the land for operating its assets and include mandatory requirements for any landholder and third party undertaking work on, over or near the easement.
EvoEnergy Gas Network	A Gas Distribution Network operated by Jemena in Nowra and the Australian Capital Territory (and surrounds)
Encroachment	Any design or construction activity and changes in operating condition that may impact on the integrity of the pipeline.
Gas Main	A Jemena owned/operated natural gas pipeline that operates between 2 kPa and 1050 kPa pressure.
HDD	Horizontal Directional Drilling
High pressure gas main	A gas main with a pressure of 1050 kPa or greater which includes Secondary, Primary and Trunk mains, or that has been identified as high risk.
High Voltage	Voltage that is greater than or equal to 11 kV
Jemena Pipeline (AS2885 pipeline)	A Jemena owned/operated natural gas pipeline that operates above 1050 kPa pressure.
Jemena Representative/Standby	An individual who has been authorised by Jemena as having undertaken the appropriate training and meets the competency requirements. A Jemena Representative will be present on site while third party work is undertaken and will issue the Third Party Works Notice prior to commencement of this work.
Low Pressure Main	A gas main that operates at a pressure no greater than 7kPa.

Term	Definition
MAOP	Maximum Allowable Operating Pressure
Medium Pressure Main	A gas main that operates at pressures between 30kPa and 400kPa.
NAPTHA main	An isolated Jemena owned asset that shall be treated as a Jemena Secondary Main
PE Slabbing	A layer of polyethene material approved as a procedural and physical protection measure for gas mains
PPE	Personal Protective Equipment
Road Reserves	Road Reserves are as defined by the relevant states Land Act and typically include footpath, stormwater drains, roadways, median strips, bus lanes and cycleways.
Secondary Main	A gas main that operates at a pressure of 1050kPa.
Shall	Designates a mandatory action
SWMS	Safe Work Method Statement
TfNSW	Transport for New South Wales
Third Party	Developer, Builder, Owner, Contractor or Customer planning or conducting works in the vicinity of Jemena Gas Networks.
Work site	The location of the intended work that the requestor is requesting a standby for.

1.5 REFERENCE DOCUMENTS

- AS/NZS 4645 (Series) Gas Distribution Networks
- AS 2885 (Series) Pipelines - Gas and liquid petroleum
- AS 4853 Electrical hazards on metallic pipelines

1.6 EMERGENCY CONTACT DETAILS

For faults and emergencies only:

- Jemena Gas Network (NSW) / EVO Energy Distribution (NSW/ACT) **132 909**

2 DUTY OF CARE FOR WORKING AROUND JEMENA GAS NETWORKS

Working near gas mains is extremely dangerous if appropriate controls are not introduced and followed. You should always exercise due care and caution when working near any gas infrastructure. In addition to your general duty of care, there may be other obligations under relevant state legislations which require you to maintain safe practices.

Due care **must** be exercised at all times to ensure there is no damage to any Jemena gas main, gas service, regulator set, asset (marker post, fencing, structure), or land.

Any damage shall be reported to Jemena immediately (see SECTION 1.6 for emergency contact numbers).

On the Jemena Gas Network, a Jemena Standby is required when working within 3m of a:

- Secondary main, or
- Critical gas main, or
- District Regulator Set, or
- Naptha main

To book a Jemena Standby for the Jemena Gas Network, please go to myportal.jemena.com.au, Select a “New Application” / “Gas Mains” / “High Pressure Standby Service”.

On the EvoEnergy Gas Network, a Jemena Standby is required when working within 3m of a:

- Secondary main, or
- Medium pressure gas main with a diameter of 75mm or greater, or
- District Regulator Set

Please note, to book a Jemena Standby / Representative on the EvoEnergy Gas Network, please call **1300 503 237** only.

3 APPROVAL PROCESS

3.1 JEMENA GAS PORTAL

The Third Party shall contact Jemena via the Jemena Customer Portal, myportal.jemena.com.au when:

- a) works are proposed within 3m of a Secondary or Critical main, or
- b) proposed works will encroach within 500mm of a Medium or Low pressure main, or
- c) there are proposed changes to the depth of cover over Jemena assets, or
- d) High Voltage (HV) cables are proposed to be installed within **5m** of a steel main, or
- e) Extra High Voltage (EHV) cables are proposed to be installed within 20m of a steel main
- f) Vibration activity as per section 4.17.
- g) Proposed tree canopy will encroach the gas main alignment in its full maturity.
- h) There are proposed changes to the ground conditions. For e.g from non-trafficable to trafficable.

A site meeting may also be requested via the Jemena Customer Portal.

If it is determined that the proposed design/work is a **Standard Encroachment**, a discussion and an agreement of the next step will be undertaken to ensure a Jemena Representative/Standby will be available to oversee that the works are undertaken.

If the proposed design/construction does not meet the minimum requirements of this document, then it is considered a **Non Standard Encroachment**. The Third Party may be required to submit their plans to the Jemena Portal, raising a New Gas Application, and selecting Gas Mains, then Encroachments in order for the works to be reviewed. Please note, that there is a fee associated for Non Standard Encroachment reviews.

3.2 JEMENA ENGINEERING REVIEW

If a review of the proposed design/construction is required, the third party shall provide the following information via a New Gas Application in Jemena's Gas Portal for review:

- a) Scope/Description of the project impacting on Jemena's assets
- b) Site layout drawings which shall include the following:
 - i. The location/address of the proposed work.
 - ii. Existing and proposed depth of cover
- c) Design drawings which shall include the following:
 - i. Plan drawings showing the location of Jemena's assets and the proposed works, including horizontal separation distances;
 - ii. Cross sectional drawings showing the vertical separation distances as well as existing and proposed depths of cover over Jemena's assets.
 - iii. Proposed pavement details where applicable;
- d) Size of plant or equipment to be used;
- e) Electrical Hazard Assessment in accordance with AS/NZS 4853 for any HV works.

Additional information may be requested as required.

4 GENERAL PRINCIPLES FOR CONSTRUCTION ACTIVITIES

Unless stipulated by Jemena Engineering, the following principles are to be followed.

4.1 ROAD RESERVES AND PARK LAND

Where the gas assets are in road reserves and park lands, the TfNSW or Council are required to notify Jemena when construction works are proposed.

Gas mains shall cross roads at or close to a right angle.

4.2 CONSTRUCTION VEHICLES CROSSING GAS ASSETS

- a) Where the minimum depth of cover over a gas asset is 600mm from the top of a sealed area (eg. road/driveway) to top of pipe to of a gas main/service, the acceptable load for vehicles or plant crossing over gas assets is 8 tonnes/axle.
- b) Where any construction vehicle crosses a gas main in an unsealed area (e.g. footpaths, park land, road works etc.), the location and depth of the gas main shall be confirmed. All information (ie. depth, weight of vehicle, protection measures, etc.) shall be sent to Jemena Engineering for review.
- c) Where a crane needs to set up over a gas main, the location and depth of the gas main shall be confirmed. All information (ie. depth, weight of vehicle, protection measures, etc.) shall be sent to Jemena Engineering for review.
- d) Heavy construction vehicles must cross over gas assets **only** at designated locations at right angles.

4.3 EXCAVATION

- a) Where a construction activity is required within 3m of a secondary or critical main, a Jemena Standby/Representative shall be present. Excavation shall not commence until the Jemena Standby/Representative is present.
- b) If the excavator is greater than a 20 tonne class machine, advice must be sought from Jemena Engineering (via the Gas Portal Application).
- c) Ensure the locations of all third party assets have been clearly identified and marked.
- d) Locating of the gas mains shall be performed via potholing. Where potholing of a Secondary or critical main is required, a Jemena Standby/Representative shall be present.
- e) If a valve is identified at the location, gauges points are likely to be present approximately one metre either side of the centreline of the valve. Gas marker stones may or may not be present at the valve. Hand excavation shall be carried out to locate the valve and gauge points. Note, all valves 200mm or greater are offset to the centreline of the main, but gauge points will still be on the centreline of the main.
- f) If syphon risers are identified at the location, gas marker stones may or may not be present at the riser. Hand excavation shall be carried out to locate the riser.
- g) Where the excavation is carried out near the gas asset using an excavator, the excavator shall use a toothless (gummy) or mud bucket.
- h) If permissible, use HydroVac equipment to positively and visually identify the gas main location and depth along the proposed excavation area, measure the depth and mark the centreline on the ground. Refer to Appendix 7.1 for water pressure limits. AirVac may also be permissible, subject to Jemena approval.

- i) No mechanical excavation is permitted within 600mm of a gas main, unless permission has been given by Jemena Engineering or a Jemena Standby/Representative.
- j) No piling or augers shall be within 1m of the gas main unless permission has been given by Jemena Engineering or a Jemena Standby/Representative. Continuous vibration monitoring shall be required for any auger or piling works within 5m of a gas main.
- k) If the gas asset is going to be exposed for more than one day, physical protection methods shall be used such as:
 - i. Hessian
 - ii. Rock shield
 - iii. Sand or sand bags
 - iv. Steel road plates
 - v. Site fencing or barriers

4.4 STOCKPILING

The third party shall **not** stockpile machinery, construction, or waste materials directly over gas assets, or within three metres of the gas asset without obtaining Jemena approval.

4.5 SEPARATION DISTANCES

The following minimum separation distances shall be maintained between the gas asset and other services. If these requirements cannot be met, then the proposed design shall be sent to Jemena Engineering via the Jemena Gas Portal Encroachments Application for an Engineering assessment.

4.5.1 UTILITIES

4.5.1.1 Trenching (Open Cut)

Unless otherwise stated, the following minimum separation distances shall apply to both horizontal and vertical separation between a gas asset and another utility:

- a) When possible and within reason, other utilities shall cross underneath gas mains.
- b) From Secondary and medium pressure steel mains that are 150mm or smaller in diameter:
 - i. 300mm when parallel or crossing over the gas asset.
 - ii. 500mm when crossing under the gas asset.
- c) 500mm from Secondary and medium pressure steel mains that are 200mm or greater in diameter.
- d) 300mm from low and medium pressure plastic mains.
- e) 500mm from DRSs.
- f) 500mm between steel mains and any electrical cables. In addition, for High Voltage electrical cables ($\geq 11\text{kV}$), an Electrical Hazard Assessment as per AS/NZS 4853 shall be prepared by Third Party and forwarded to Jemena Engineering for review and acceptance. Refer to Section 4.6.
- g) For Extra High Voltage electrical cables ($\geq 100\text{kV}$) near steel gas mains, 4000mm horizontal separation when in parallel, and 1500mm vertical separation when crossing the gas main. In addition an Electrical Hazard Assessment as per AS/NZS 4853 shall be prepared by Third Party and forwarded to Jemena Engineering for review and acceptance. Refer to Section 4.6.
- h) 500mm from Thermal Stabilising Backfill (TSB).
- i) 300mm from Stabilised Sand

4.5.1.2 Trenchless (Horizontal Direction drill, Horizontal Bore, etc)

If a trenchless activity is proposed to be carried out near or across gas assets, the Jemena representative shall discuss with the Third Party the following details:

- a) Drill path profile
- b) Depth of drill under the gas assets
- c) Separation distance between the new service and the existing gas assets
- d) Drill head control and monitoring methodology and accuracy
- e) Detailed drill location

Once the gas asset is positively identified and before drilling commences, a slit trench must be excavated parallel to the gas asset on the side from which the drill is approaching to a depth of 500mm below the bottom of gas asset to prove the drill head will not encroach near it. If possible, the slit trench must be one metre away from the gas asset. In addition, physical barriers such as steel plates may be installed down the side of the gas asset to ensure the drilling machinery does not come close to or damage the gas asset and provides the Jemena representative an opportunity to stop works if necessary.

If directional drill activity is proposed to be carried out parallel to gas assets, the gas asset shall be positively identified before drilling commences and the drill path shall be no closer than one metre from the side of the gas asset. Where a one metre separation cannot be kept, Jemena Engineering/Management must be contacted to assess the proposed drill path.

4.5.2 STRUCTURES

Buildings shall be at least 1000mm from any gas main. Other structures, including stormwater pits, shall be at least 500mm from any gas main. Structures shall not be built over gas mains. If these requirements cannot be met, then the proposed design is to be submitted for review via the Jemena Gas Portal Encroachments Application.

Electrical substations shall be at least 3000mm from any steel gas main. In addition an Electrical Hazard Assessment as per AS/NZS 4853 shall be prepared by Third Party and forwarded to Jemena Engineering for review and acceptance. Refer to Section 4.6.

4.6 HIGH VOLTAGE ELECTRICAL INSTALLATION

For any High Voltage Electrical installation, defined as voltage above 10kV, the Electricity Asset Owner or representative shall perform an Electrical Hazard Assessment study on Jemena's steel mains in accordance with the latest version of AS/NZS 4853 (Electrical Hazards on Metallic Pipelines). The study shall be completed by a certified practitioner. The types of electrical hazards that need to be covered are as follows:

- Low frequency induction (LFI);
- Earth potential rise (EPR);
- EPR due to lightning current;
- Capacitive coupling on the pipeline due to adjacent high voltage power lines; and
- Accidental contact of pipeline with other electrical systems.

This report shall be submitted to Jemena for acceptance prior to implementing any design. The report should clearly state the standards it refers to, e.g. AS/NZS 4853:2012, details of the proposed electrical infrastructure, the hazards that have been assessed, the assessment, findings and

Jemena's pipe details (diameter, length, and distance to nearest pipeline facility where contact by personnel is expected, such as Cathodic Protection Test Points).

For Low Voltage Electrical installation defined as voltage below 10kV, the Electricity Owner or representative shall perform a Level 1 assessment on Jemena's steel mains in accordance with the latest version of AS/NZS 4853 (Electrical Hazards on Metallic Pipelines). The study shall be completed by a certified practitioner.

4.7 ISOLATED MAINS

Some gas assets that do not appear on BYDA may be isolated gas mains. Jemena Engineering shall be contacted for approval if relocation or removal of these assets is required.

4.8 REMOVAL OF CONCRETE CAPPING

If cutting or removal of concrete capping is required, then the activity is to be assessed by Jemena Engineering, which may require a special procedure. All existing gas asset protection methods such as pre-cast or poured concrete slabs shall be retained and/or reinstated.

4.9 GAS MAIN MARKERS

All existing gas asset markers shall be retained and/or reinstated. Where gas main markers are affected by construction works, they shall be re-located by Jemena (costs shall be paid by the third party). Additional gas main markers shall be installed at gas asset crossings for all new services or roads.

4.10 CP TEST POINTS, CP GROUND BEDS, CP CABLES AND KIOSKS

Where any CP assets are affected by construction works, all existing CP assets and equipment shall be retained, relocated or reinstated by Jemena and the costs shall be paid by the third party.

Any electrical or earthing works which may affect the CP system must comply with AS/NZS 4853 (Electrical Hazards on Metallic Pipelines) and shall be submitted to Jemena Engineering for review via the Jemena Gas Portal Encroachments Application.

4.11 BLASTING

Blasting is **not allowed within 50m** of Jemena Gas Networks without prior written approval from Jemena.

If the Third Party has a requirement to conduct blasting activities within 50m of Jemena Gas Networks, an engineering review of the design proposal shall be requested from the Third Party.

The following information shall be included in the design package for review:

- a. The blasting distance from the pipeline and drawings, map references;
- b. Depth of the blast;
- c. Shot size (kg);
- d. Shot sequence and delay; and

- e. Shot strength.
- f. Information on Peak Particle Velocity (PPV) and the measures in place during blasting to monitor PPV.

4.12 SUBSIDENCE

Where any ground subsidence is predicted as a result of tunnelling, underground mining, etc, which may impact our gas mains, the risk of subsidence shall be mitigated in accordance with the table in Appendix 7.4. A leakage survey may be required prior to commencement of works to provide a baseline. Regular ground level monitoring will be required during works to highlight any significant changes in height which may result in additional leakage surveys.

4.13 PROLONGED JEMENA PIPELINE EXPOSURE

If the Jemena Pipeline is to be exposed for more than one day, suitable barricades and steel plates shall be installed to ensure the security of the exposed Jemena Pipeline from accidental (construction or vehicle impact) or deliberate damage (vandalism). In addition, the pipeline shall be wrapped in hessian in order to prevent UV damage.

Damage to Jemena Pipeline due to sagging shall be prevented. For any unsupported span of pipe exceeding 6 m, written approval from Jemena will be required.

4.14 DEPTH OF COVER

The minimum depth of cover of a gas main is detailed in the table below. Depth of cover shall not exceed 1500mm. Where there is a proposed change to the existing depth of cover of a gas main, the design shall be sent to Jemena Engineering for review and acceptance.

	Secondary and Critical Mains	MP and LP Mains (non-critical)
Arterial roads and their adjacent road reserves	1200mm	1200mm
Other roads	900mm	750mm
Road reserve	900mm	600mm
Railway Reserve (other than under railway)	2000mm	2000mm
Under Railway	Refer to AS4799 – Installation of underground utility services and gas mains within railway boundaries.	

Table 1: Minimum depth of cover for gas mains

4.15 BACKFILLING

The following shall apply when backfilling over our gas mains:

- No stabilised sand, roadbase, or concrete within 300mm of the gas main;
- The gas main shall be in a bed of washed river sand (no recycled material allowed) with a maximum particle size of 2mm with a neutral PH value.

- For steel mains, the river sand shall extend to a height of 300mm above and below the main, and 300mm either side of the main;
- For plastic mains, the river sand shall extend to a height of 75mm above and below the main, and 75mm either side of the main;
- Sandbags are not to be used as permanent bedding.

4.16 COMPACTION OVER GAS ASSETS

Compaction shall be in accordance with the diagram in Appendix 7.2.

4.17 VIBRATION

Vibrations from any equipment or processes including vibrating compaction equipment, jack hammers, rock hammers, seismic measuring processes, blasting, etc. are not to exceed the following peak particle velocity readings at the nearest surface of the buried pipeline:

- a) 20mm/s for Steel mains.
- b) 10mm/s for plastic and cast iron mains.

In the event that such vibrating equipment is to be used close to the pipeline or in blasting operations, suitable trials are to be conducted prior to proceeding with the proposed development to ensure that the stipulated peak particle velocities will not be exceeded.

Suitable vibration monitoring equipment is to be used to record the tests and works as they progress in accordance with agreed procedures with Jemena.

4.18 TREE PLANTING

Any trees proposed to be planted near Jemena's assets shall be in accordance with Appendix 7.3.

4.19 POST CONSTRUCTION PROTECTION MEASURES

All existing Jemena Gas Network's protection measures including but not limited to concrete slabs, marker posts, marker tape and Cathodic Protection Systems shall be retained. Any protection measure that was temporarily removed with Jemena's approval as part of construction is to be reinstated to its original condition post construction.

5 TERMS & DEFINITIONS

Abbreviation	Definition
Compaction	Backfilling and compaction of pipe in accordance with Jemena's requirements.
Concrete capping	A physical protection measure made of concrete placed above the gas asset, applied when normal depths of cover cannot be achieved.

Abbreviation	Definition
Concrete slab	A concrete surface layer, e.g. Driveway, footpath, roadway.
CP	Cathodic Protection
Critical main	A plastic main that has been deemed “critical” due to internal factors. It shall be treated as a secondary main.
BYDA	Before You Dig Australia
DRS	District Regulator Set
Encroachment	An Encroachment is any unauthorised 3 rd party activity within three metres of a Secondary main or Critical Medium Pressure main.
Extra High Voltage	Voltage that is greater than or equal to 100 kV
Gas main	All secondary mains, medium pressure mains and low pressure mains covered under AS4645.
HDD	Horizontal Directional Drilling
High pressure gas main	A gas main with a pressure of 1050 kPa or greater which includes Secondary, Primary and Trunk mains, or that has been identified as high risk.
High Voltage	Voltage that is greater than or equal to 11 kV
Jemena Standby/ Representative	A suitably qualified person assigned to carry out a standby on a Secondary or critical medium pressure main. This includes Secondary Standby Officers and Pipeline Patrol Officers.
kPa or MPa	Units of pressure measurement
LP	Low Pressure
Low Pressure gas main	2, 7 kPa
MAOP	Maximum Allowable Operating Pressure
Medium Pressure gas main	30, 100, 210, 300, 400 kPa
MP	Medium Pressure
PE Slabbing	A layer of polyethene material approved as a procedural and physical protection measure for gas mains
PPE	Personal Protective Equipment
TfNSW	Transport for New South Wales

Abbreviation	Definition
Secondary gas main	1050 kPa.
SWMS	Safe Work Method Statement
Work site	The location of the intended work that the requestor is requesting a standby for.

6 REFERENCES

6.1 INTERNAL

GAS-960-GL-PL-001 – Designing, Constructing and Operating Assets Near Jemena Gas Pipelines
Jemena Network Operator Rules

6.2 EXTERNAL

AS 4645 Series – Gas Distribution Networks
AS 4853 – Electrical Hazards on Gas Pipelines

7 APPENDICES

7.1 OPERATING LIMITS FOR THE APPLICATION OF VACUUM EXCAVATION AROUND BURIED NATURAL GAS MAINS

The use of vacuum excavation (or hydro-excavation) on gas mains shall be limited to the water pressures set out in the table below.

Pipe material	Maximum allowable water pressure, psig*	
	Rotating nozzle	Fixed nozzle
Nylon	2000	1500
PE	2500	2500
Uncoated steel pipe	3000	3000
PE coated steel pipe (yellow jacket)	2000	2000
Fusion bonded epoxy (FBE) coated steel	2000	2000
Coal tar enamel coated steel	0	0
Petroleum tape coated steel	1000	1000
Tek-Rap coated steel	1000	1000
Coated steel pipe (unknown coating)	1000	1000

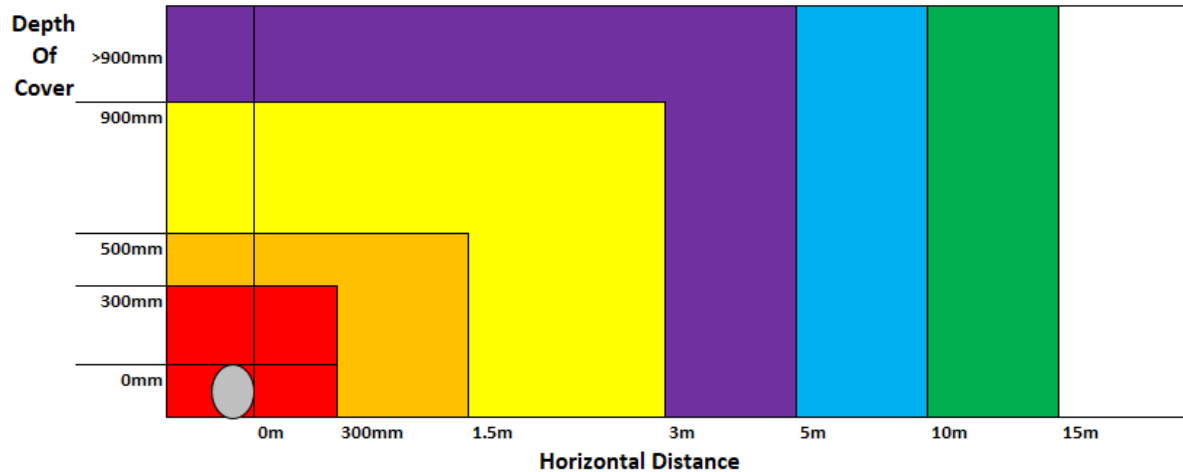
* Notes:

1. The pressure of the water must be measured at the lance, NOT the truck.
2. The nozzle shall be kept at least 300 mm from the surface of the gas asset at all times.
3. In the case of steel pipe only, the minimum water pressure the equipment is capable of delivering must be applied when starting the excavation process until the nature of the pipe coating is identified, then the pressure may be increased to the relevant pressure specified in the table.
4. Vacuum excavation is not permitted on coal tar enamel coated gas mains.

The use of vacuum excavation around buried high-pressure natural gas pipes will require the presence of a Jemena or Zinfra representative.

7.2 COMPACTION REQUIREMENTS

Compaction Requirements

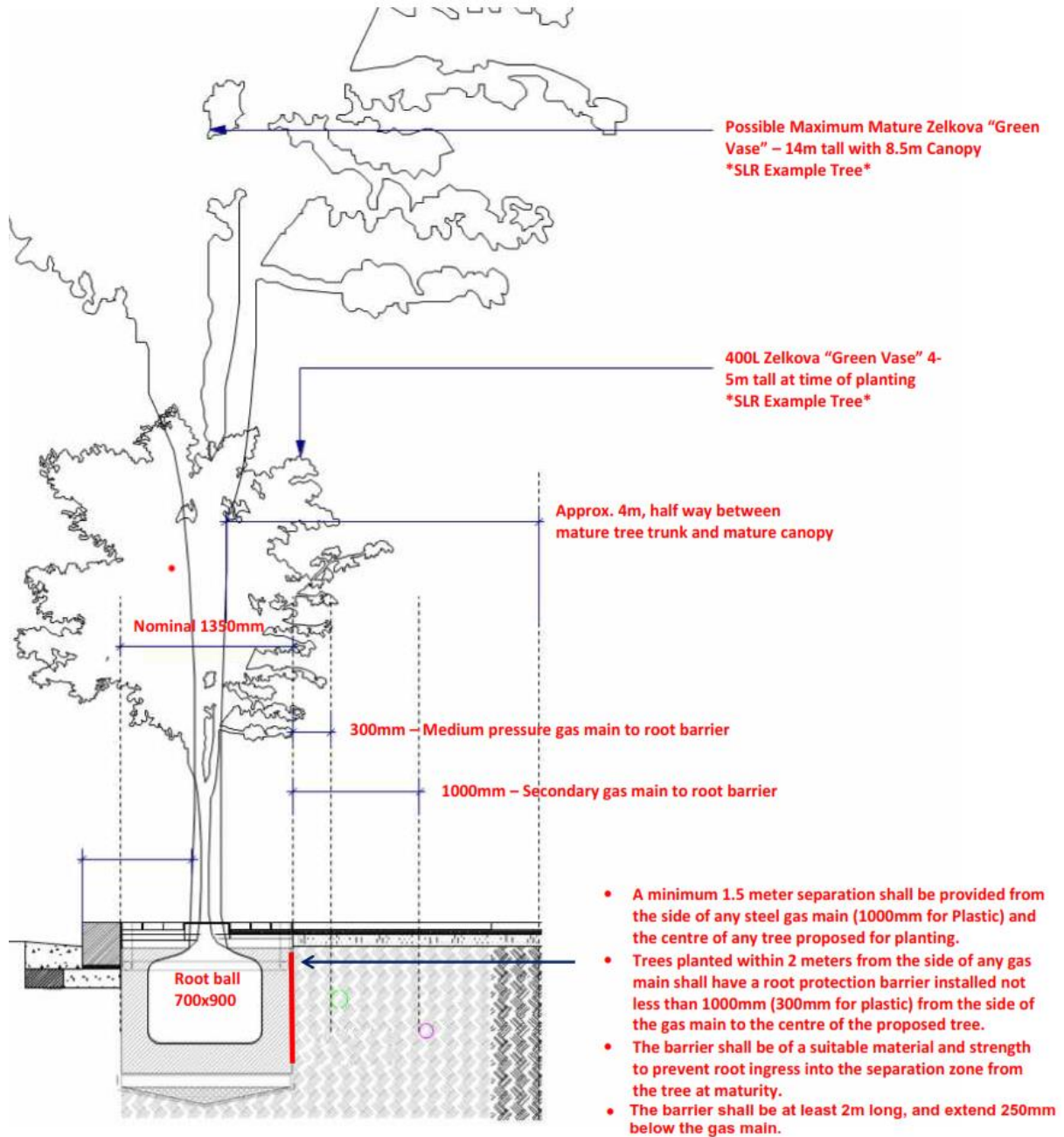


Maximum Allowable Compaction

- No compaction permitted. Hand tamping only.
- Hand-held class 60kg compacter only.
- 8T tandem-drum static roller (no vibration), or a hand-held larger plate compacter at any vibration setting.
- 8T tandem-drum roller set at low-amplitude vibration, or 10T vibratory roller set to static roller only (no vibration).
- 8T tandem-drum roller at any vibration setting, or 10T vibratory roller set to low-amplitude vibration.
- 10T tandem-drum roller at any vibration setting.
- No restrictions.

7.3 TREE PLANTING REQUIREMENTS

Note: The diagram below is restricted to specific tree species, and is subject to Jemena Engineering approval. Other tree species may require additional separation.

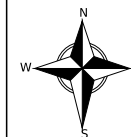
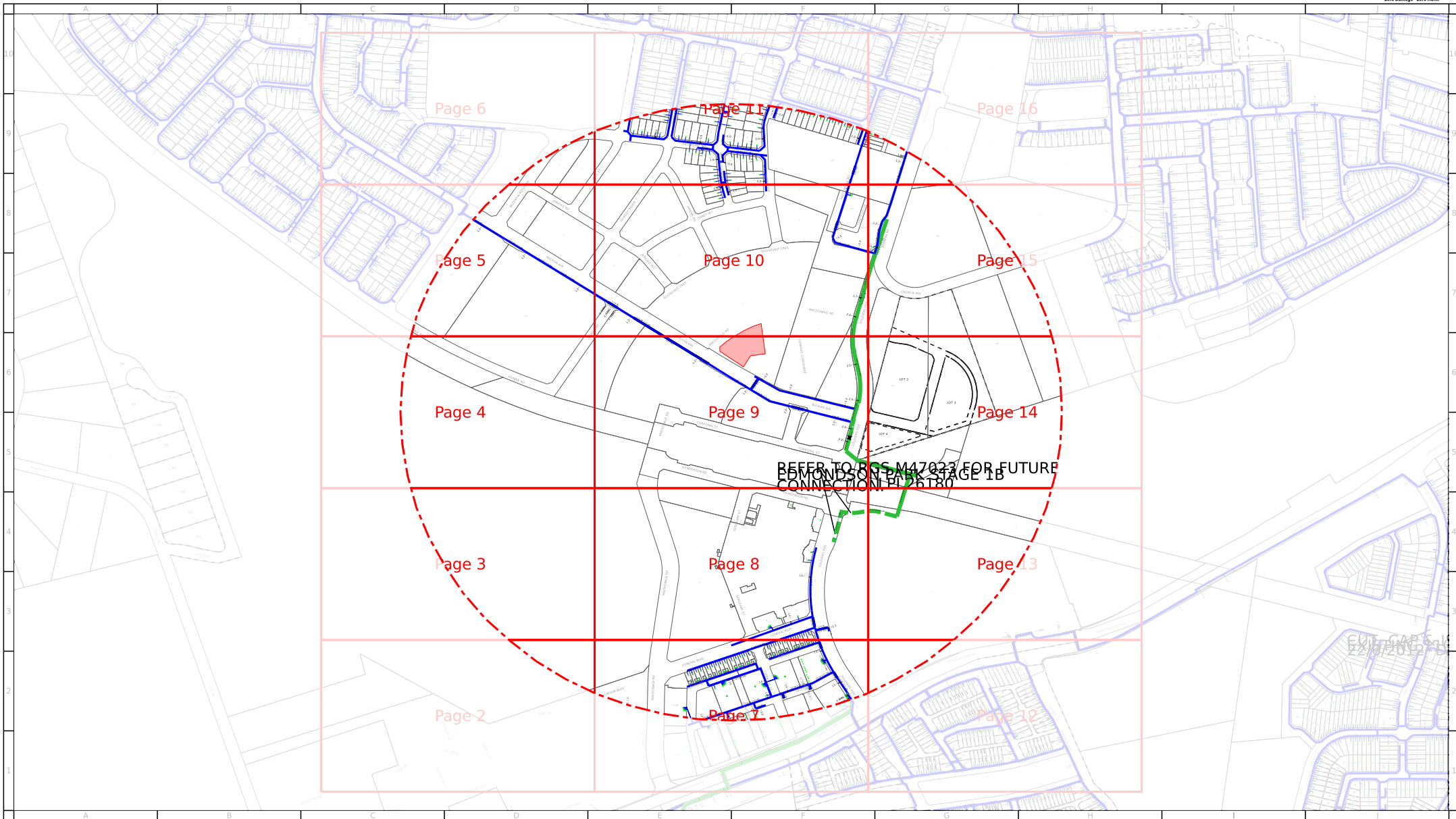


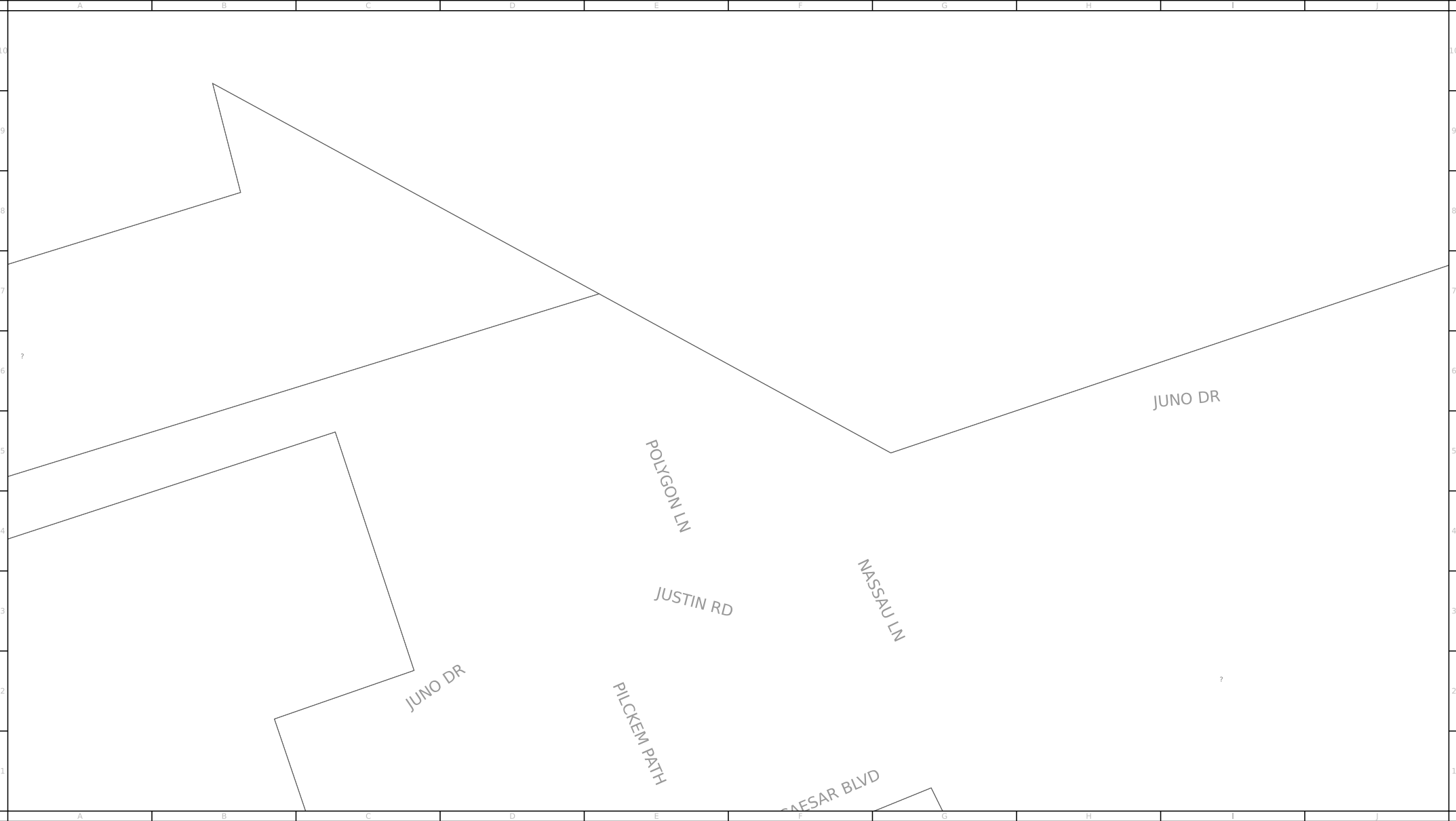
7.4 SUBSIDENCE RISK CONTROL PROCEDURES

Level	Control Measures	Frequency	Analysis	Trigger Level	Action
1	<u>Baseline Gas Detection Survey Required</u> Undertake a pre-tunnelling gas detection survey of pipes within the area potentially affected.		Jemena reviews: - 2D ground surveys report - pipe integrity - ground conditions report		
	<u>Ground inspections:</u> - 2D survey - ground inspection	<u>Ground surveys by contractor:</u> - Monthly 2D survey along centreline of tunnel for pegs located within active subsidence zone after the length of the tunnelling exceeds 200 metres. - Weekly surveys from when tunnelling exceeds 800 metres, until one month after completion of tunnel. - Weekly surveys along roads where mains exists when within active subsidence zone. <u>Ground inspections by contractor:</u>	Contractor surveys and provides Jemena with: - ground surveys - ground movements / features reports	<u>Ground movement survey and measurements:</u> - Radius of ground curvature greater than 4 (km) - Ground strain 0 to 2 (mm/m) - Ground movements rate of change steady <u>Ground conditions monitoring:</u> - ground cracks reported - ground subsidence reported - ground movements showing a <u>step change</u> indicating shear and / or <u>discontinuity</u> in humps near the gas services	<u>Go to LEVEL 2 if LEVEL 1 limit is exceeded:</u> - normal ground patrol by Jemena pipeline officer Jemena actions following receipt of reported incidents: inspects site to confirm operation of gas facilities not affected Assess potential for impacts on pipe crossings due to valley closure. Consider trigger level for Level 2.

		- Weekly inspection including at the creek crossings within the active subsidence zone.			- undertake additional inspection e.g. exposing and inspecting gas service as applicable to determine gas facilities integrity - based on above findings, undertake corrective action per Level 3 activities where gas services integrity affected
	<u>Ground subsidence validations:</u> - Observed against predictions	On receipt of data: verify and track results against predictions	Contractor analyses and reports findings to stakeholders		
2	<u>Ground inspections:</u> - 2D survey - ground inspection	Submit data within 24 hours duration Twice weekly 2D survey	Contractor surveys and provides Jemena with: - ground surveys - ground movements / features reports	<u>Ground movement survey and measurements:</u> - Radius of ground curvature 2 to 4 (km) - Ground strain 2 to 5 (mm/m) - Ground movements rate of change increasing with increasing upward trend - Subsidence is delayed (such as subsidence not developing within expectations, and/or reports of no caving underground) <u>Ground conditions monitoring:</u> - ground cracks reported - ground subsidence reported - ground movements showing a <u>step change</u> indicating shear	Go to LEVEL 3 if LEVEL 2 limit is reached: - weekly ground patrol by Jemena pipeline officer Jemena actions following receipt of reported incidents: inspects site to confirm operation of gas facilities not affected based on above findings, undertake corrective action per Level 3 activities where gas services integrity affected - if no immediate corrective actions required, Jemena may put field construction on standby
	<u>Ground subsidence validations:</u> - Observed against predictions	Twice weekly: verify and track results against predictions	Contractor analyses and reports findings to stakeholders		
			Jemena reviews: - 2D ground surveys report - pipe integrity - ground conditions report		

				and / or <u>discontinuity</u> in humps near the gas services	
3	<u>Ground inspections:</u> - 2D survey - ground inspection	Submit data within 24 hours duration Daily 2D survey	Contractor surveys and provides Jemena with: - ground surveys - ground movements / features reports	<u>Ground movement survey and measurements:</u> - Radius of ground curvature less than 2 (km) - Ground strain greater than 5 (mm/m) - ground movements showing a <u>step change</u> indicating shear and / or <u>discontinuity</u> in humps near the gas services.	Jemena's field corrective actions: - mobilisation construction in the field - excavate affected area - inspect gas facilities to confirm integrity - repair and / or replace gas services as applicable - to maintain supply and safe operation
	<u>Ground subsidence validations:</u> - Observed against predictions	Daily: verify and track results against predictions	Contactors analyses and reports findings to stakeholders		
			Jemena reviews: - 2D ground surveys report - pipe integrity - ground conditions report (as applicable)		





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



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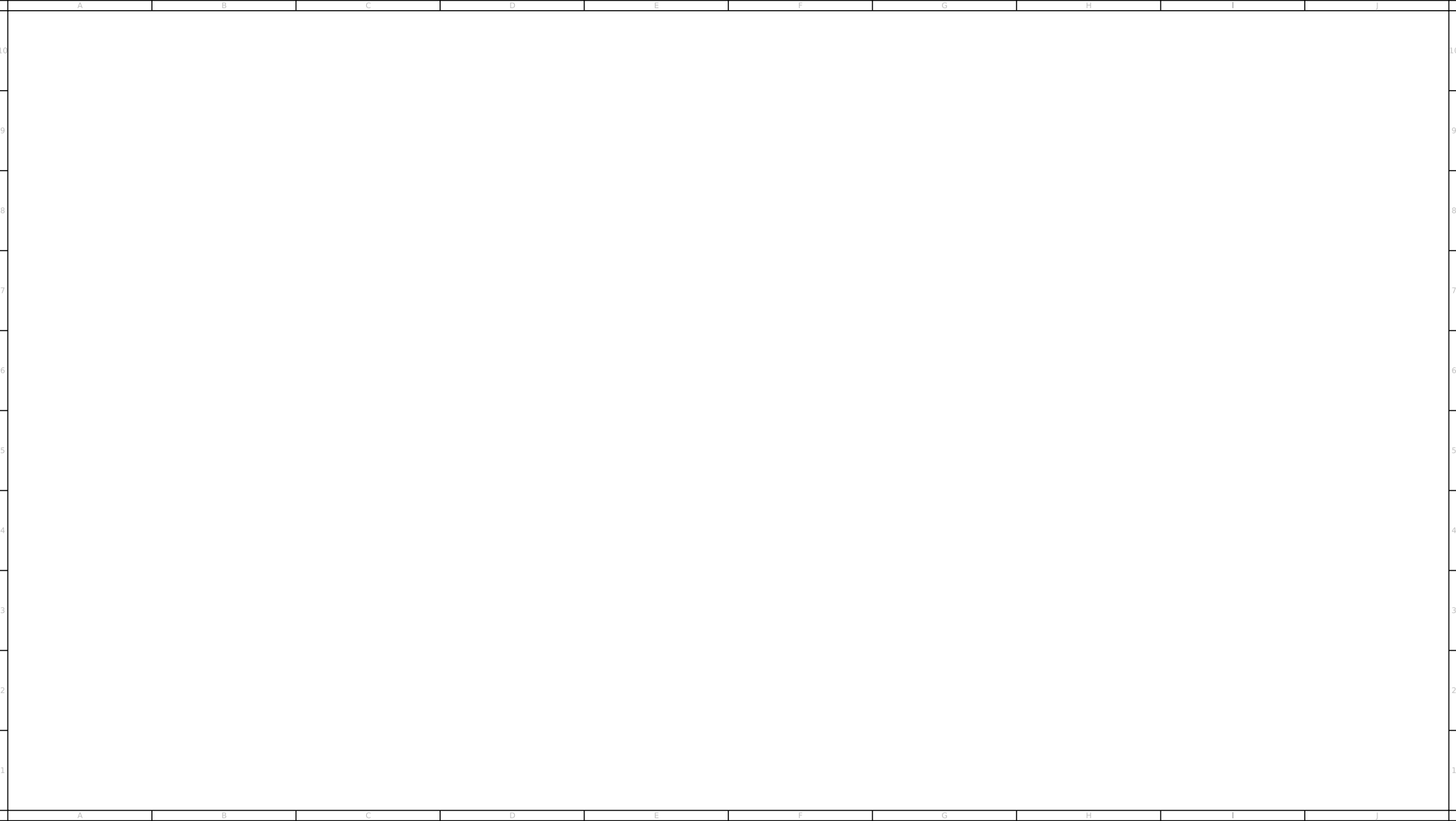
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BYDA Seq No: 261230598

BYDA Job No: 51193194

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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.

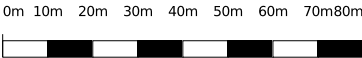


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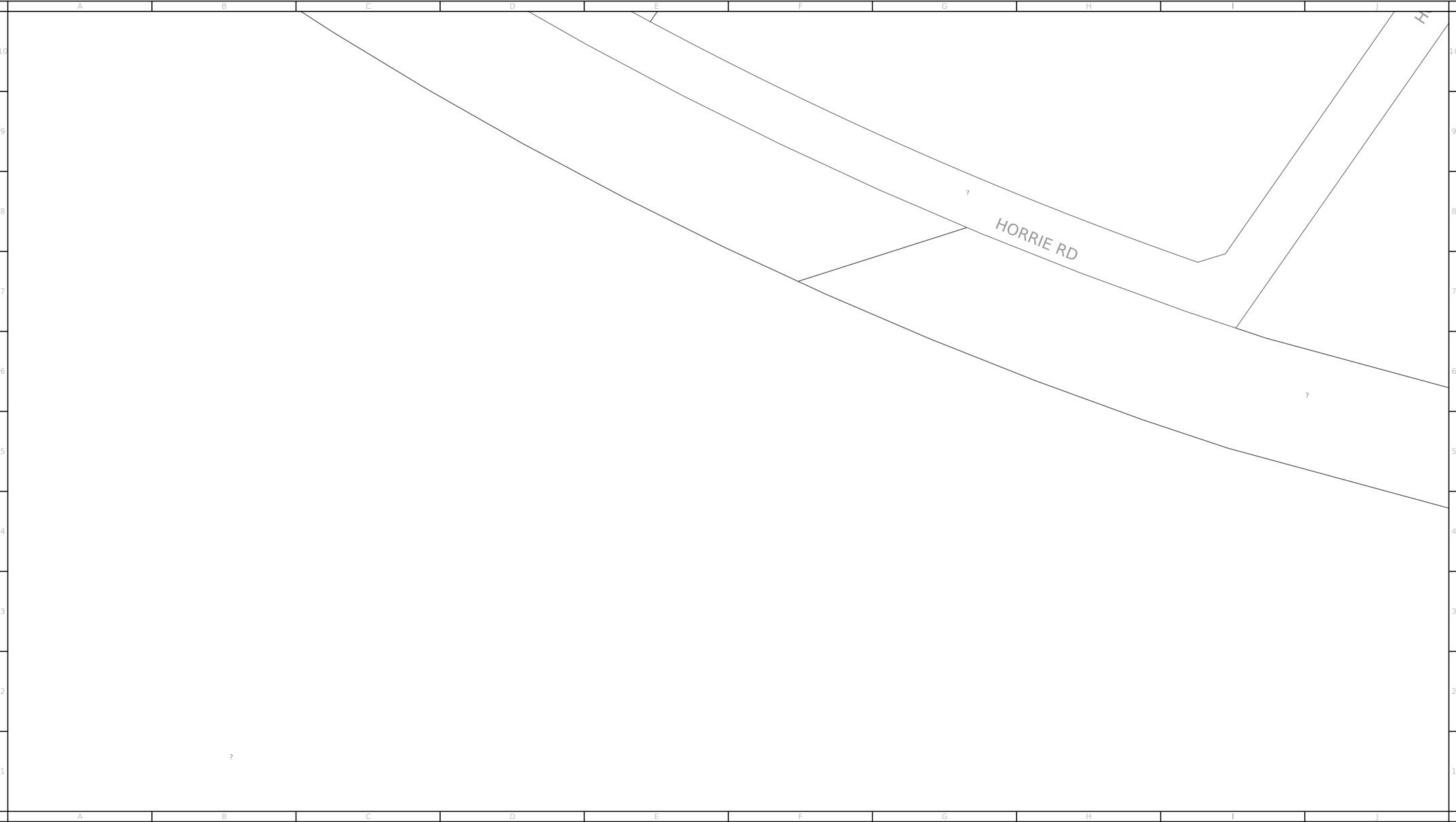


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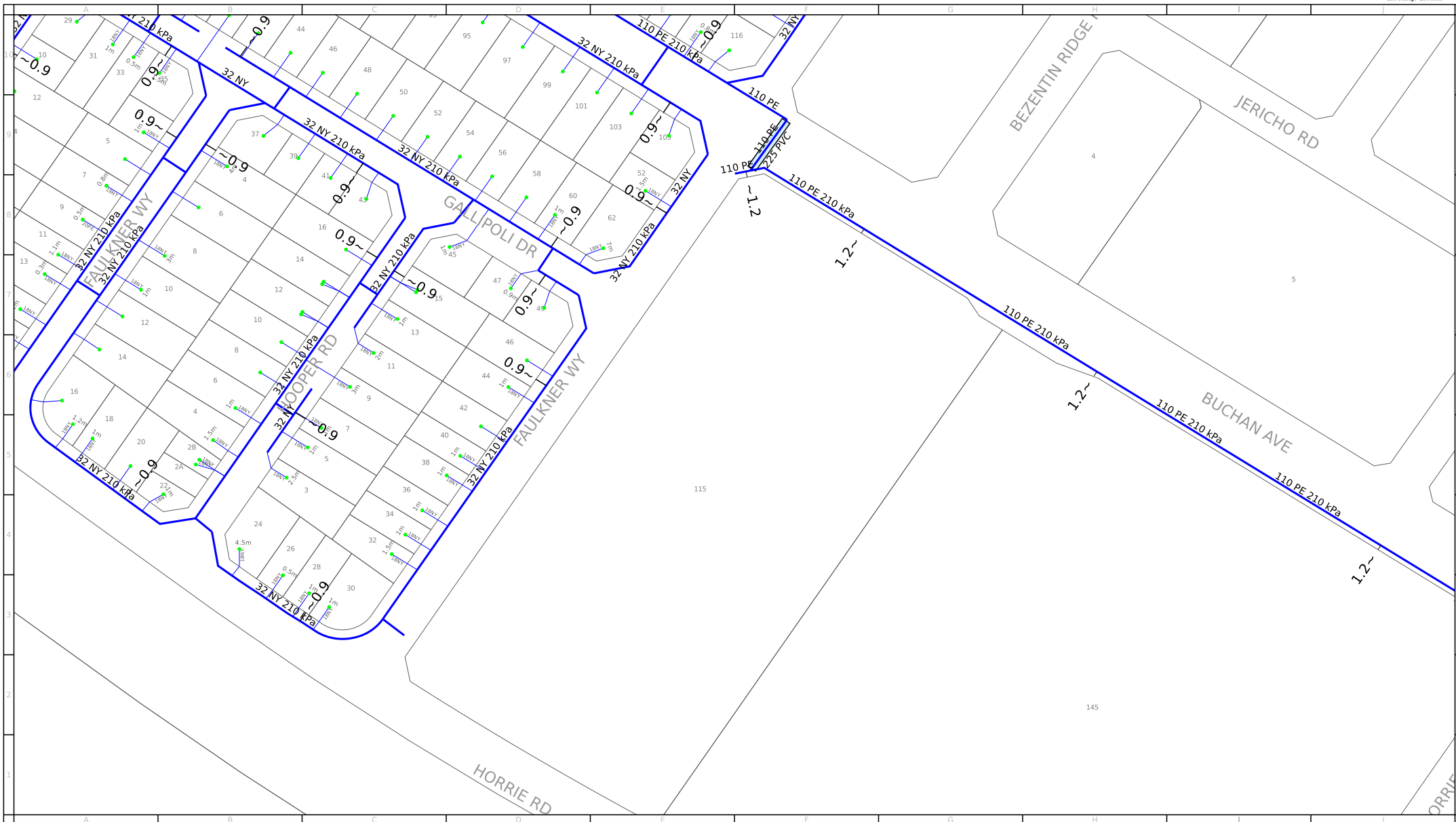
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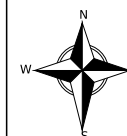
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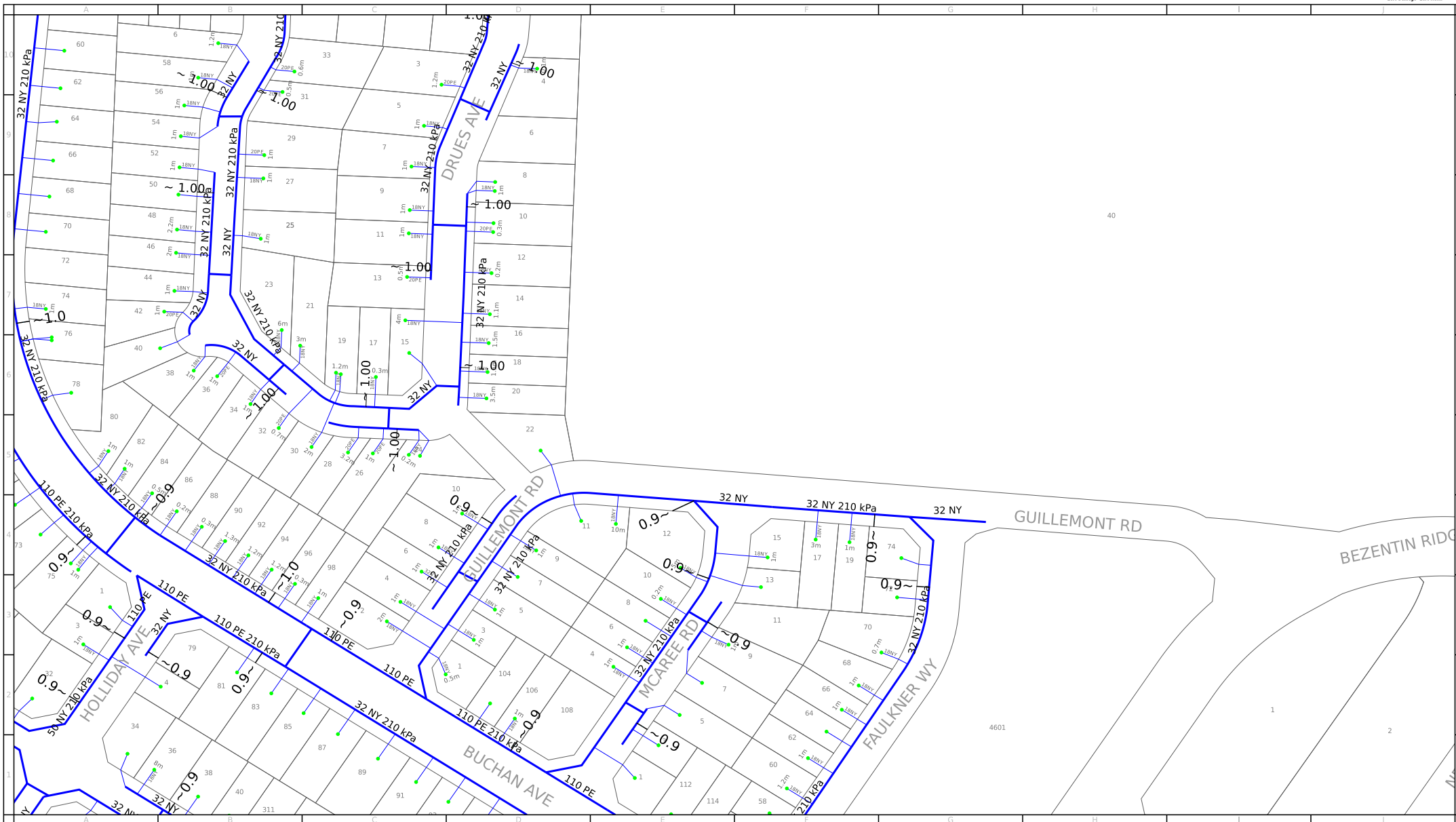
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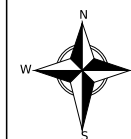
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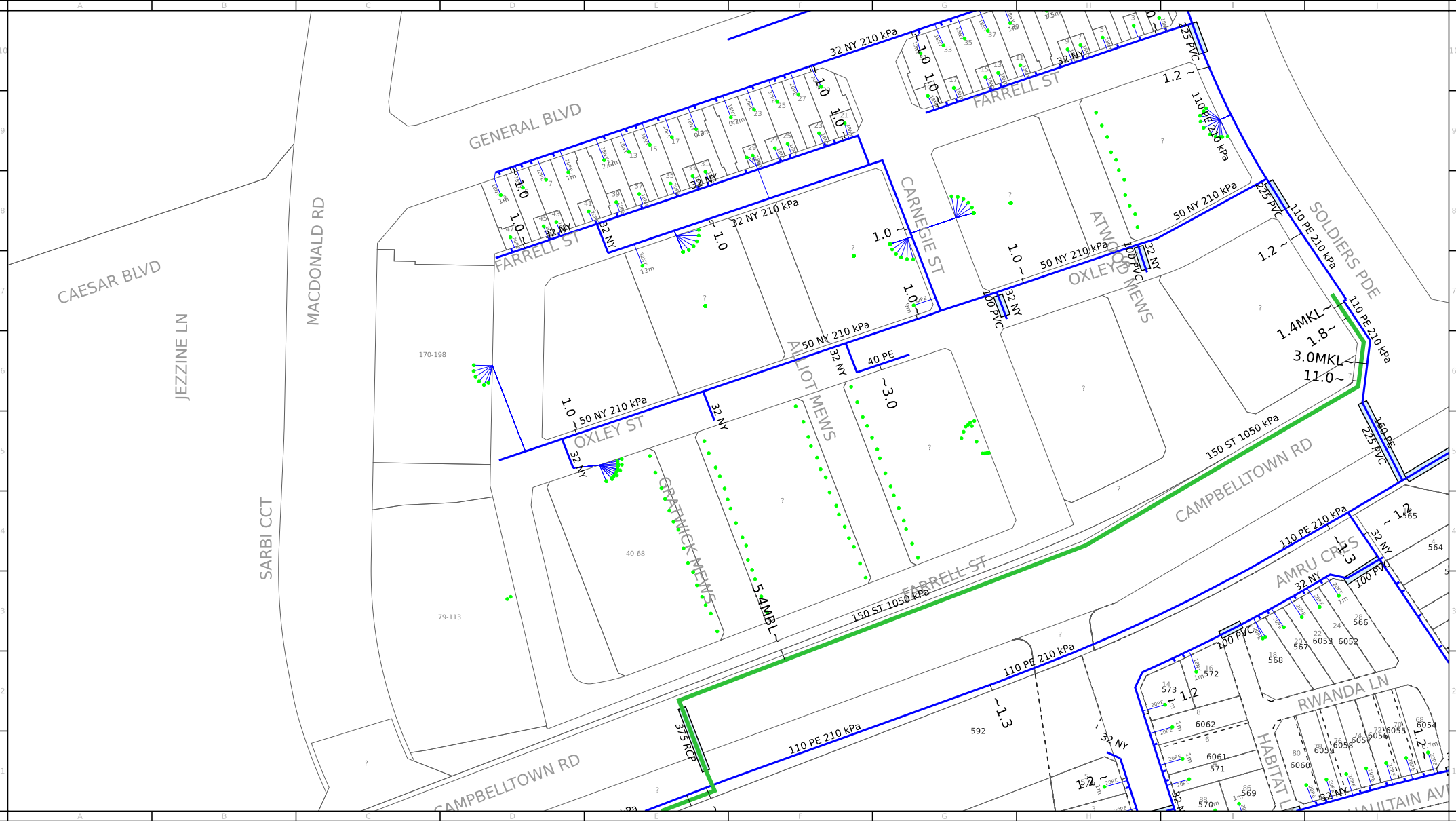
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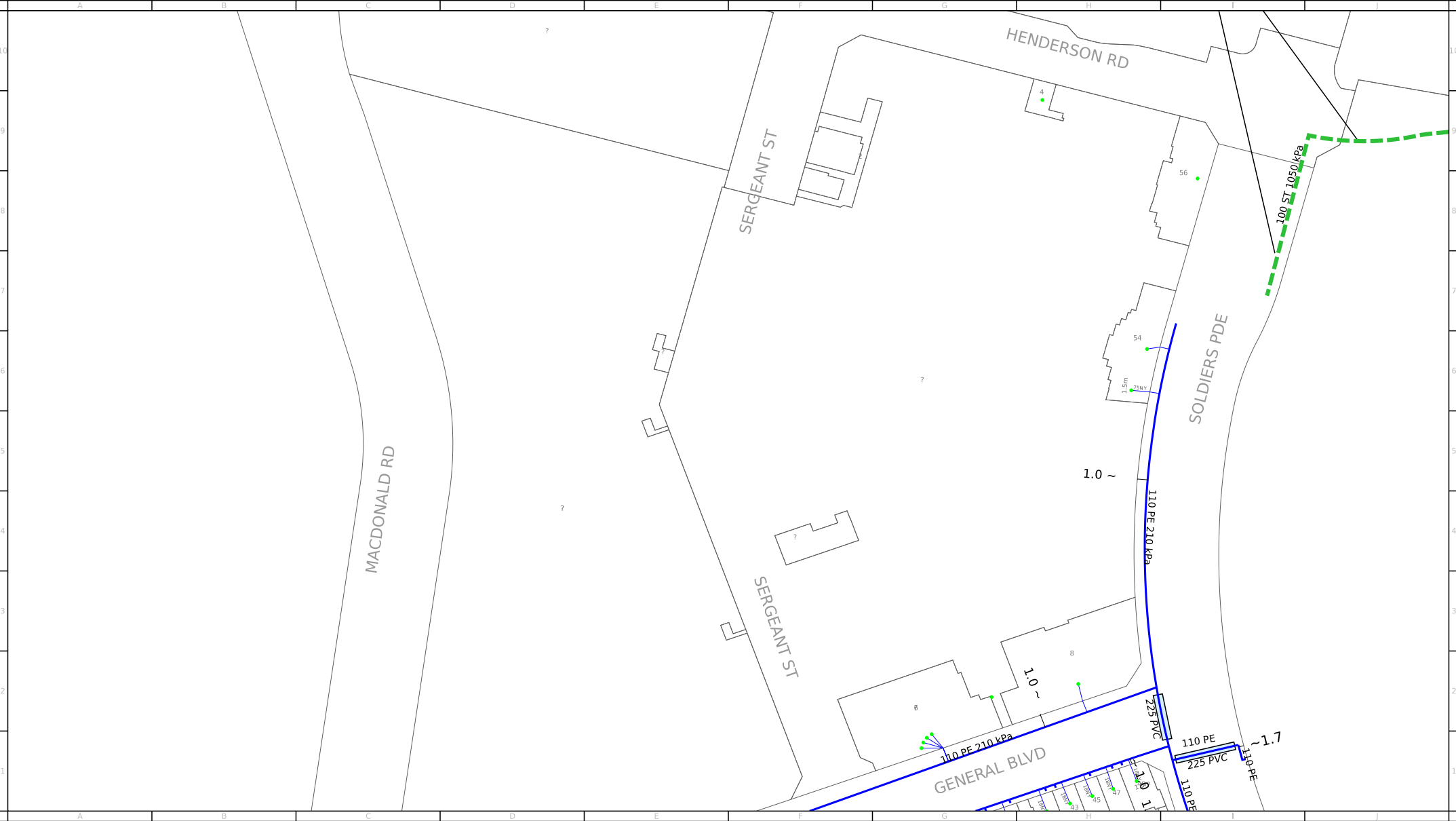


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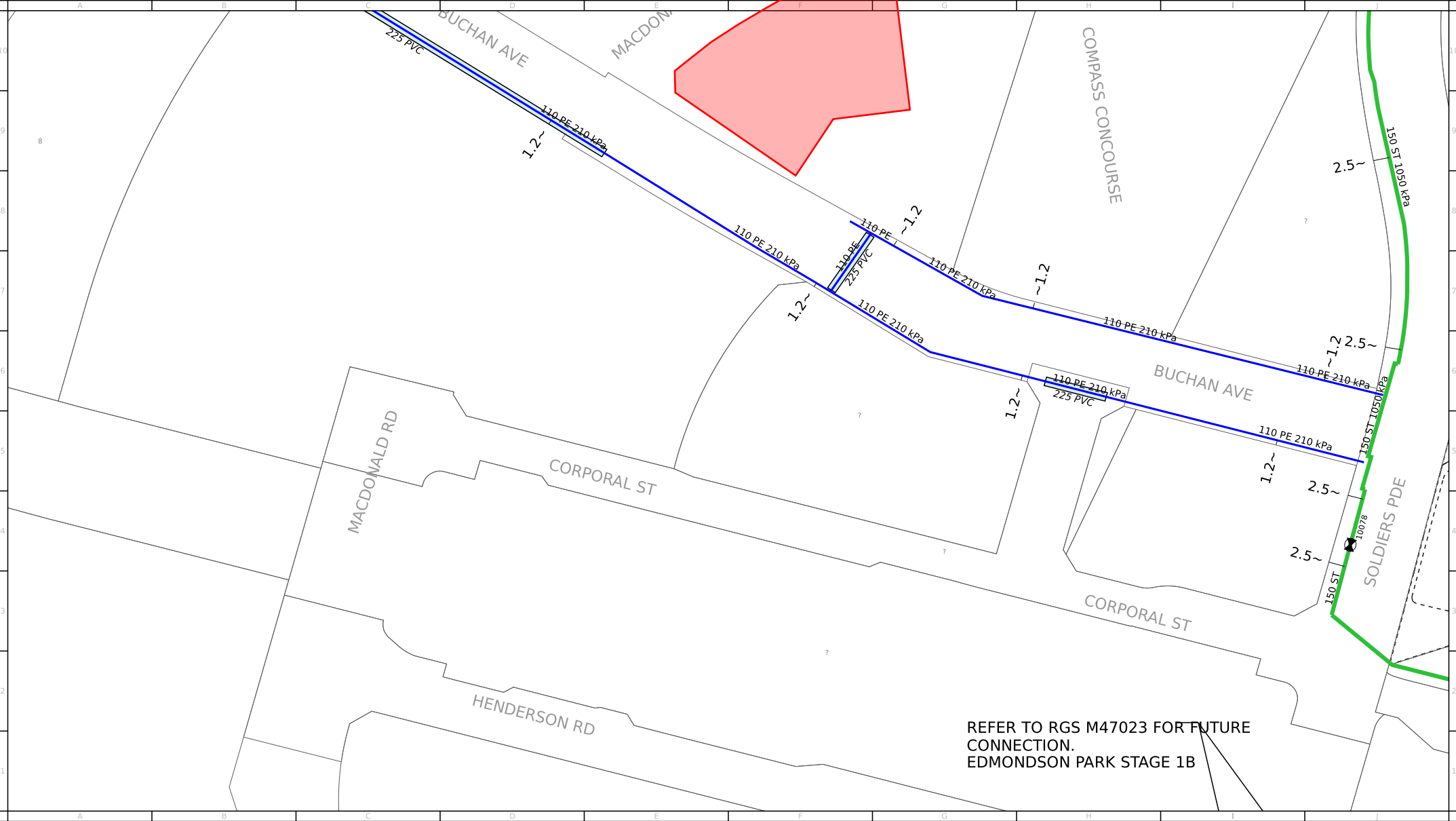


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REFER TO RGS M47023 FOR FUTURE CONNECTION.
EDMONDSON PARK STAGE 1B



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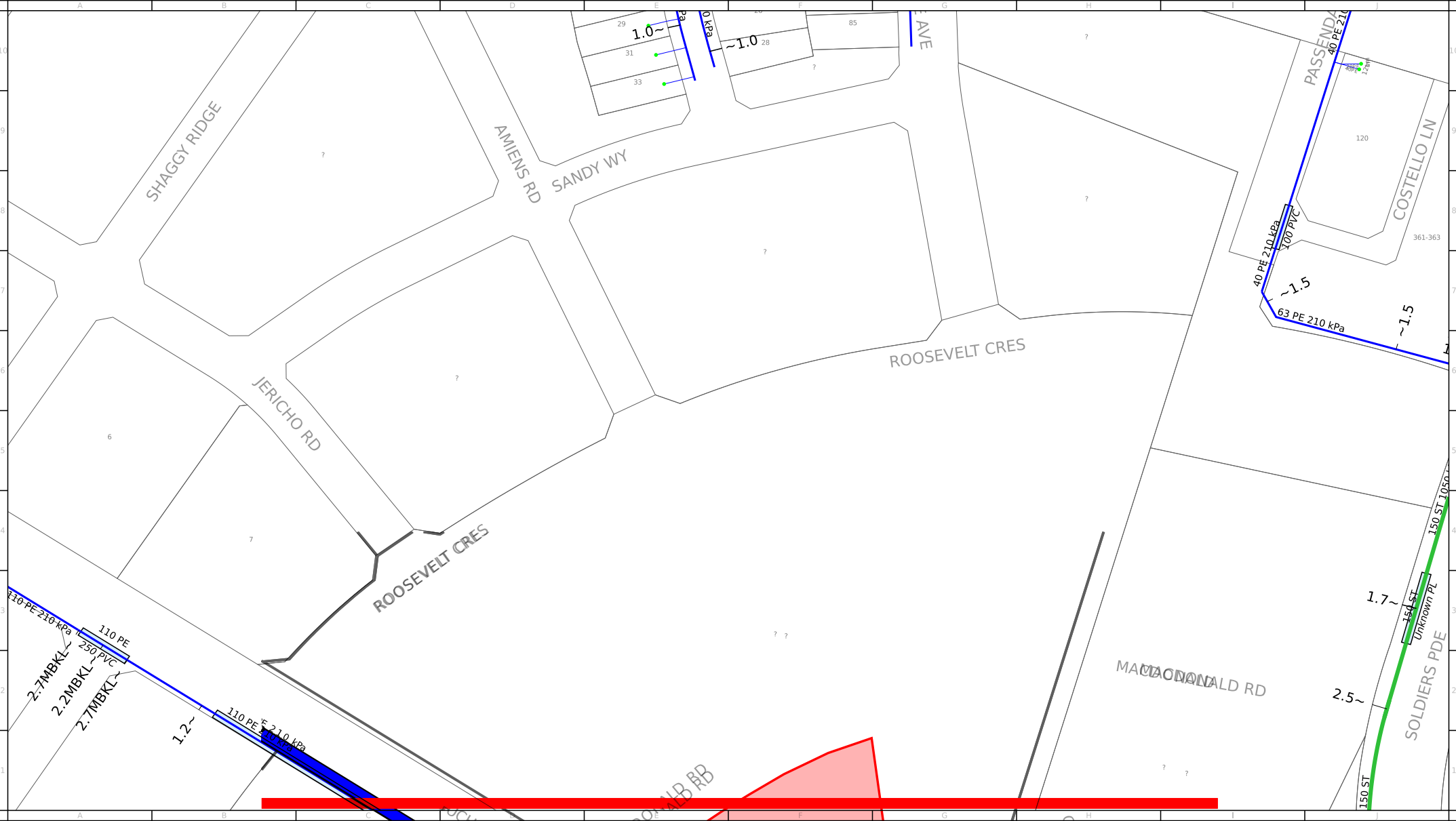
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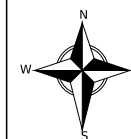


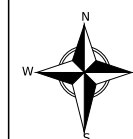
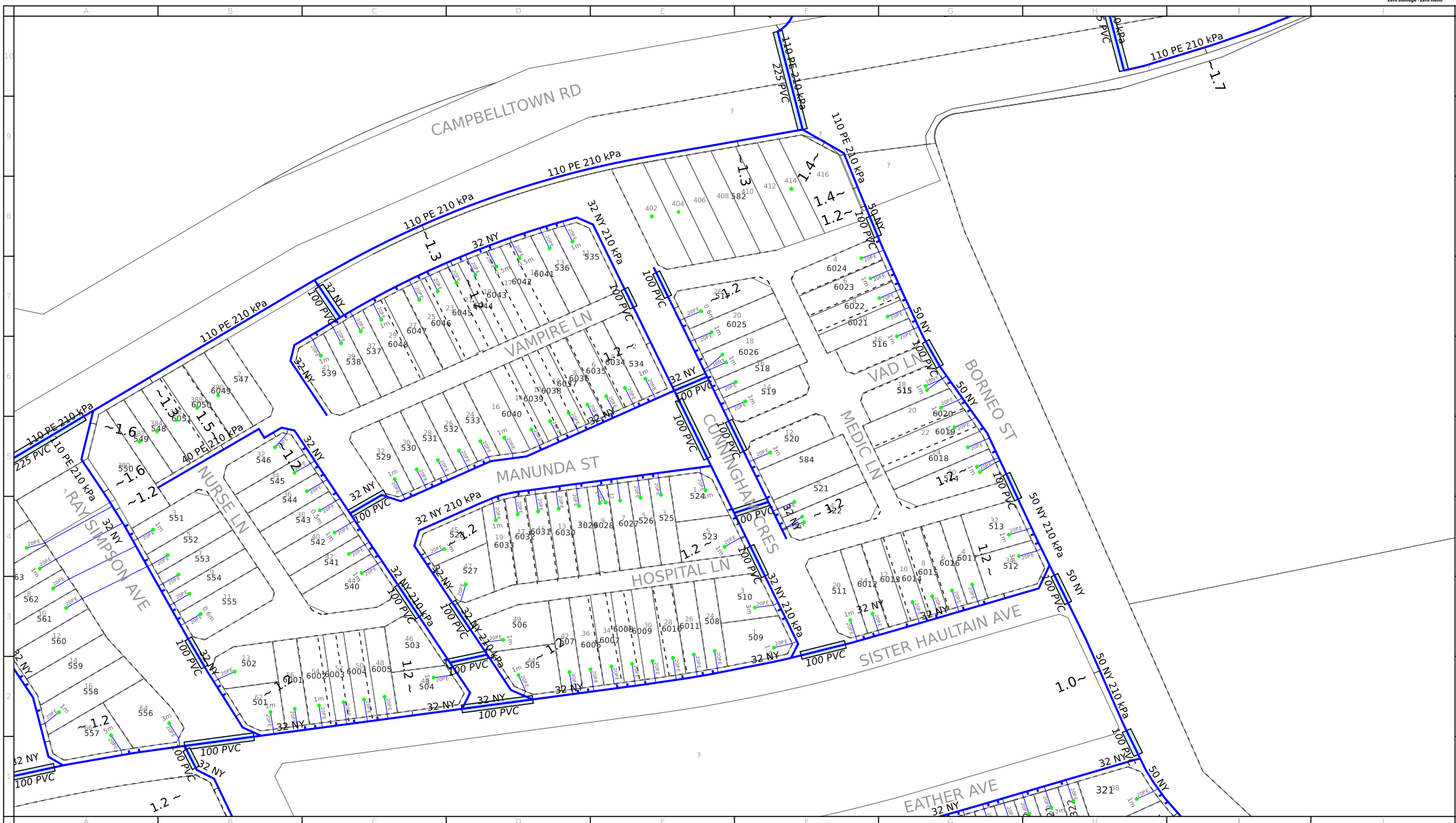
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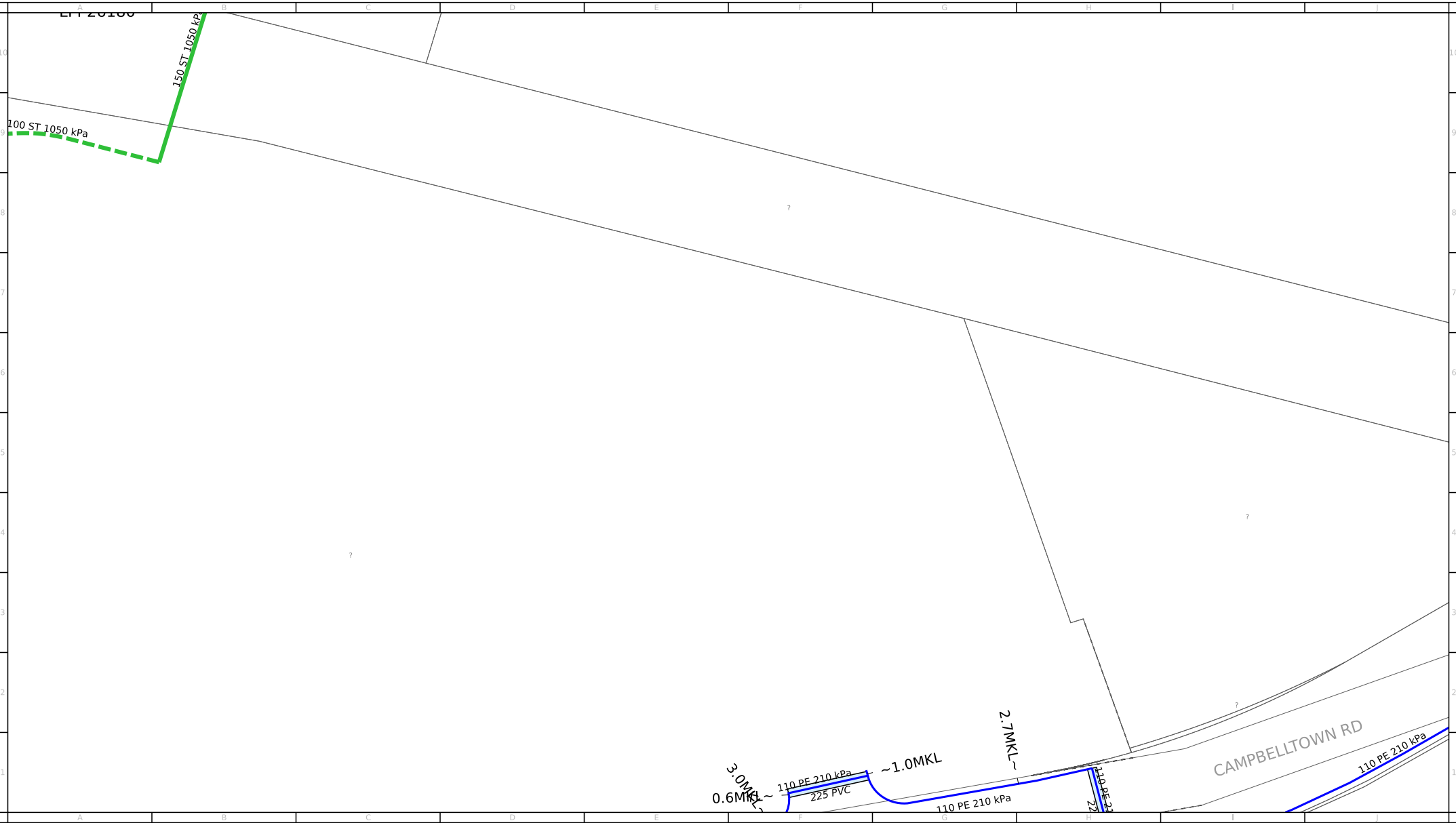
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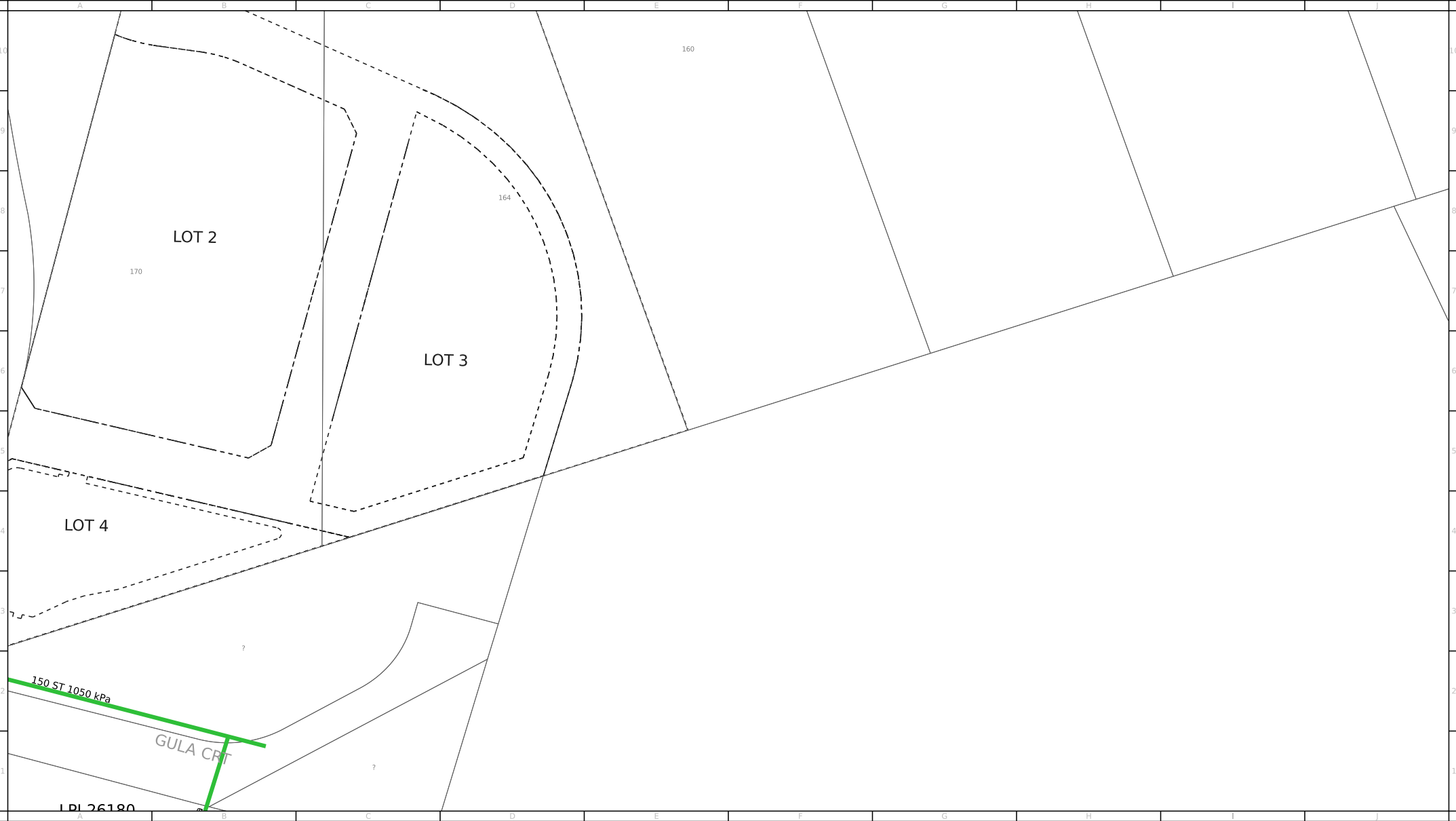


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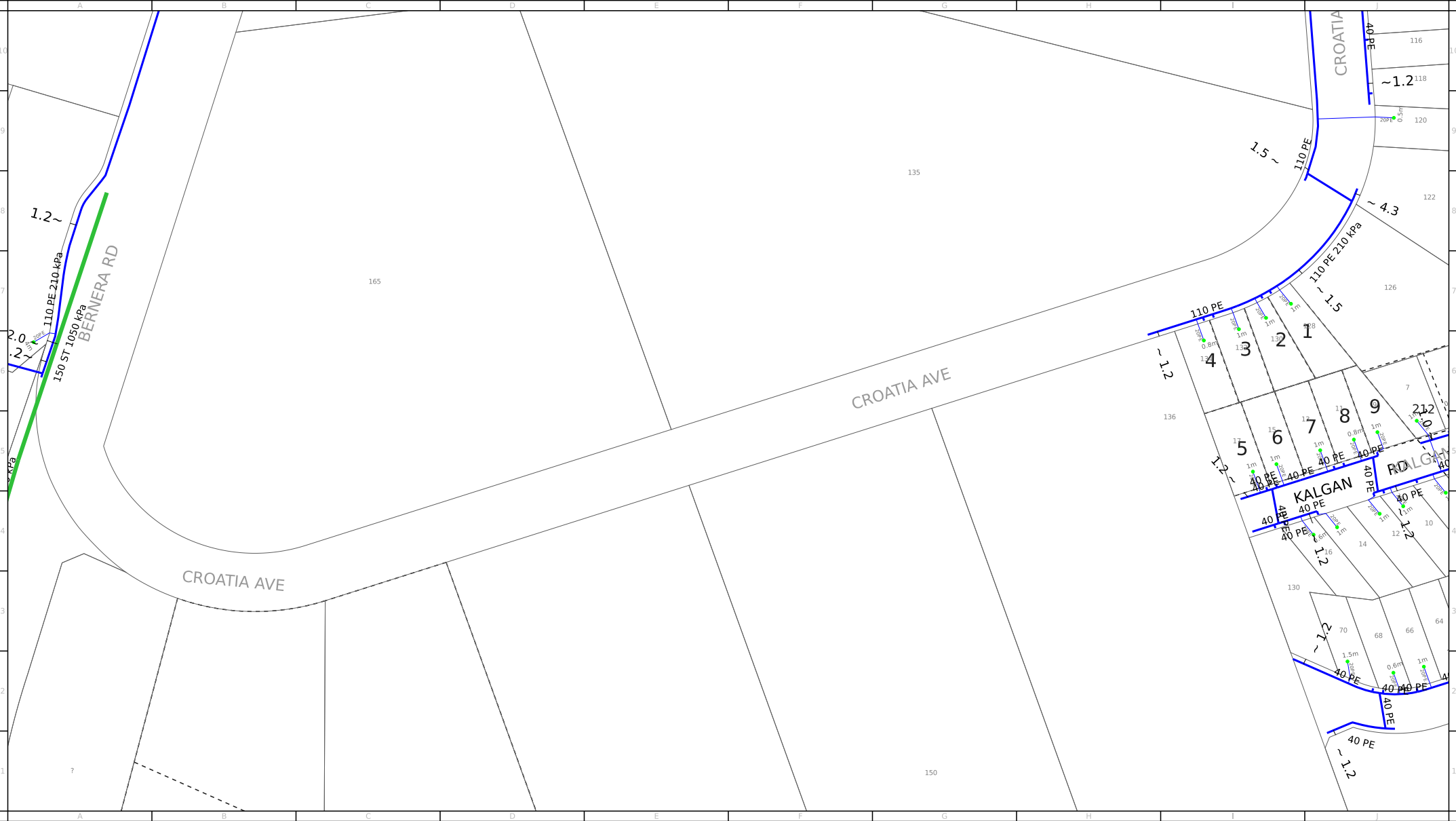
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BYDA Job No: 51193194

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.



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

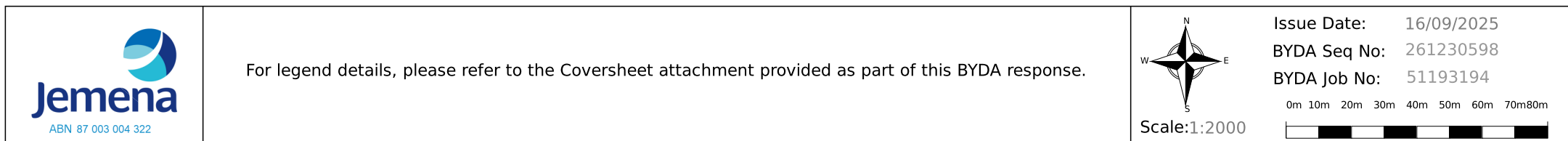


Scale: 1:2000

Issue Date: 16/09/2025
BYDA Seq No: 261230598
BYDA Job No: 51193194



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HIGH PRESSURE - ASSETS AFFECTED

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

There are **High Pressure Gas Mains and 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.

Excavation Guidelines

To arrange a Jemena Representative please log a request via www.myportal.jemena.com.au and choose 'Gas Mains' application type and "High Pressure Standby Service". If you do not have an account, you will need to choose 'register' and follow the prompts.

Please review the attached Construction Guidelines – '**GAS-9899-GL-CN-001 Guideline for construction around AS4645 assets**' and ensure that you meet the minimum construction requirements in this document. If the minimum requirements cannot be achieved, submit your proposal in the form of an Application via www.myportal.jemena.com.au and choose 'Gas Mains' application type and select 'Encroachments', an Engineering review will be conducted to address the considerations. Please allow up to 10 working days for the application to be reviewed.

Please note that a duty of care exists to ensure gas assets are not compromised or damaged. Jemena's expectation is that the excavator operator holds a current Verification of Competency (VOC) or equivalent for the machine to be used near Jemena High Pressure Gas Assets.

Further standby enquiries can be directed to the High Pressure Coordinator via:

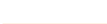
E: infrastructureprotection@jemena.com.au or PH: 1300 665 380.

Appointments will be coordinated with availability of a Jemena Representative to arrange a site meeting / standby. 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 may apply.

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
EXPOSED	



SHALLOW-SP

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		

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
-------------	--

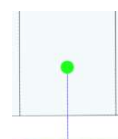
⑤0MM 32MM NY	32mm Nylon main inserted into 50mm Steel pipe
--------------	---

~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

Response Cover Letter

Liverpool City Council

Locked Bag 7064

Liverpool BC NSW 1871

www.liverpool.nsw.gov.au



Date: 16/09/2025

To:

ADP Consulting

ADP Consulting

Level 3,8 Spring Street

Sydney NSW 2000

According to our records your enquiry with the following details impacts our infrastructure. Please review other documents included with this response for additional details:

Sequence No: 261230592

Job No: 51193194

Location: 180 Croatia Avenue
Edmondson Park NSW 2174

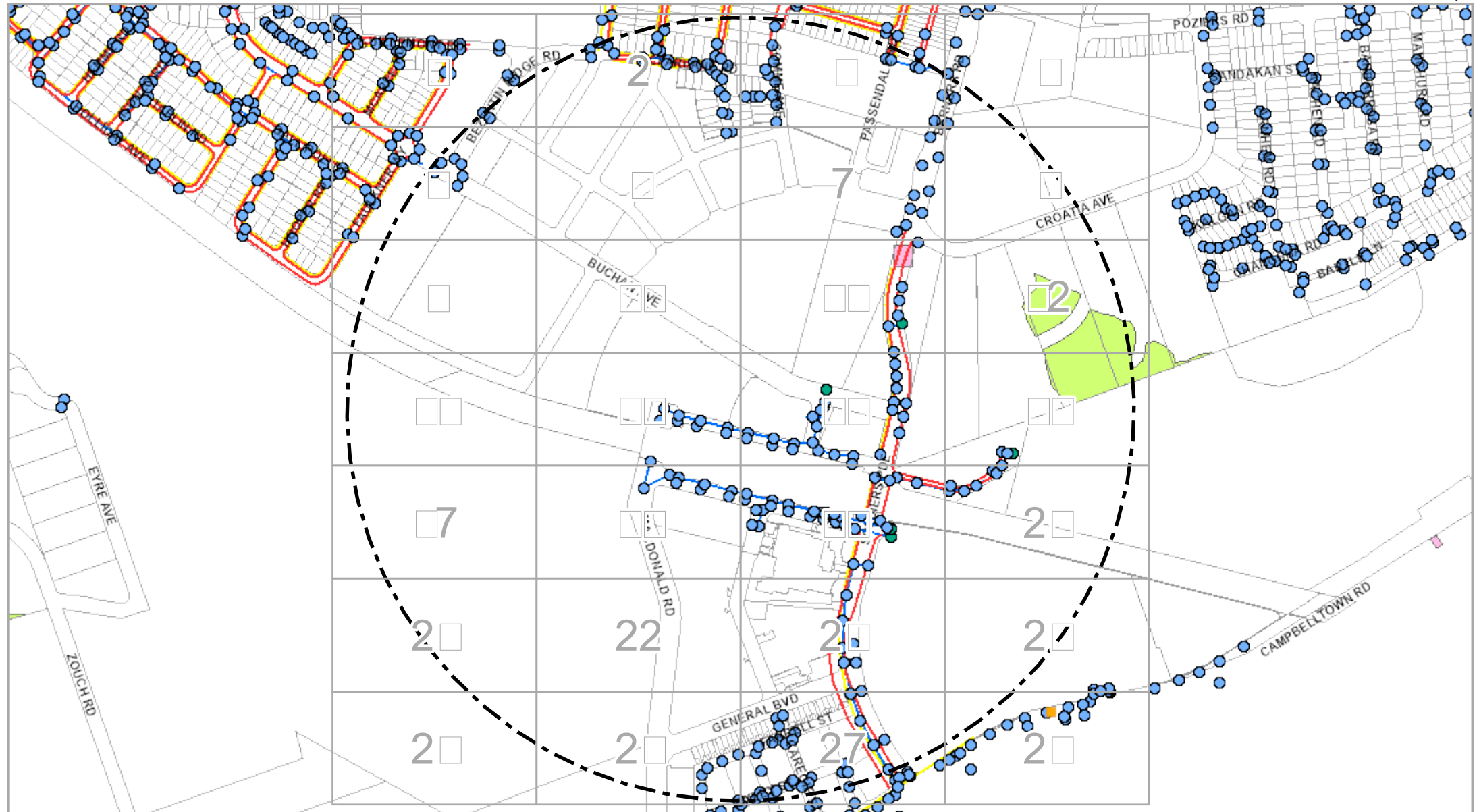
If you require further information, please contact the Liverpool City Council's Customer Centre on 1300 362 170 or lcc@liverpool.nsw.gov.au

Important Notice: This enquiry response, including any associated documentation, has been assessed and compiled from the information detailed within the DBYD enquiry outlined above. Please ensure that the DBYD enquiry details and this response accurately reflect your proposed works.

This response is intended for use only by the addressee. If you have received the enquiry response in error, please let us know by telephone and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.



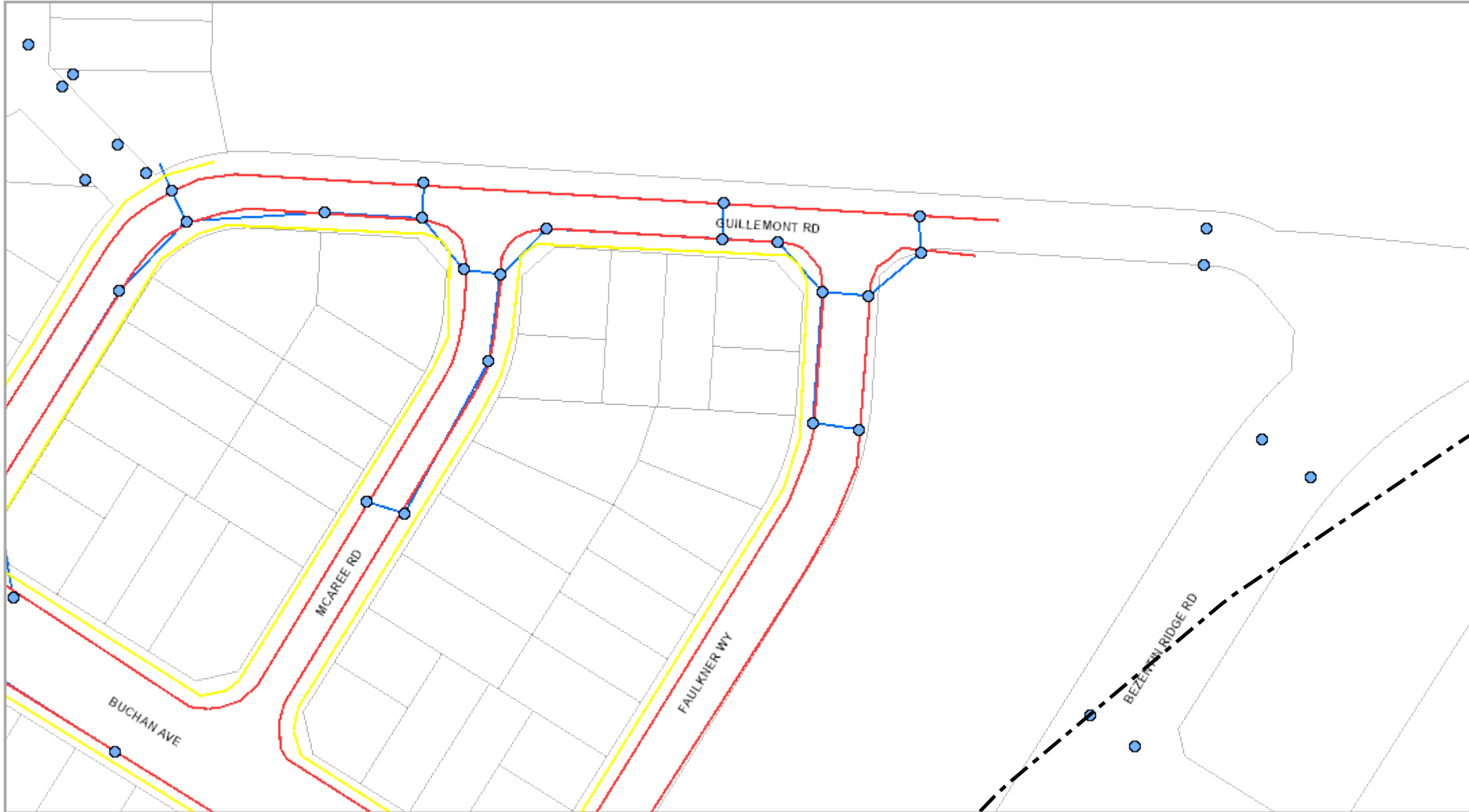
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Legend | Scale: 1:7175 | Overview

- | | | |
|---|---|--|
| ■ Bus Stops | — Kerb and Gutter | Cadastre |
| ● Pits | — Footpaths and Cycleways | Bridges |
| ● Headwalls | — Pipes | Environmentally Sensitive Land |

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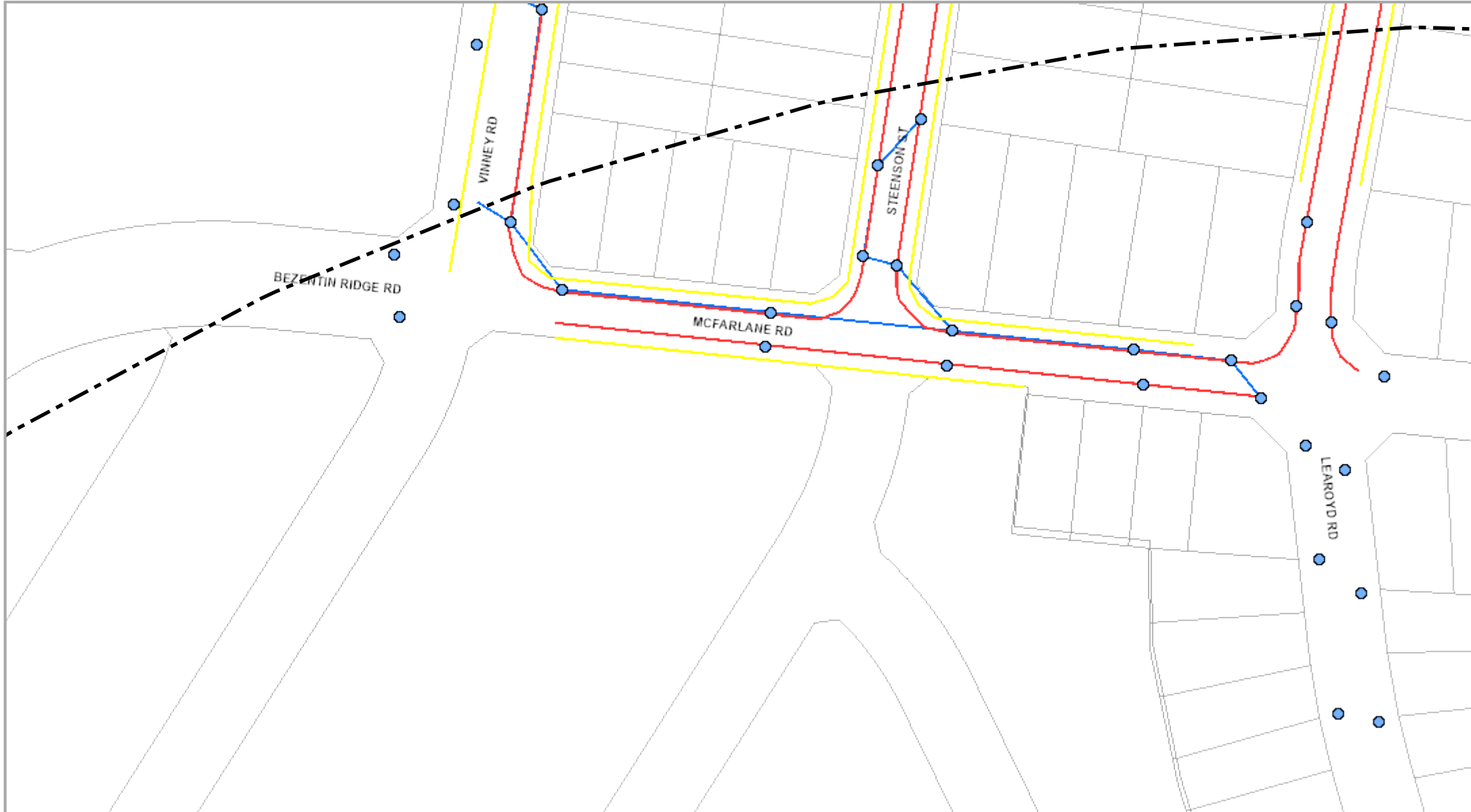


Legend | Scale: 1:1000 | Tile No: 1



- | | | |
|-----------|-------------------------|--------------------------------|
| Bus Stops | Kerb and Gutter | Cadastre |
| Pits | Footpaths and Cycleways | Bridges |
| Headwalls | Pipes | Environmentally Sensitive Land |

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Legend | Scale: 1:1000 | Tile No: 2

- | | | |
|-----------|-------------------------|--------------------------------|
| Bus Stops | Kerb and Gutter | Cadastre |
| Pits | Footpaths and Cycleways | Bridges |
| Headwalls | Pipes | Environmentally Sensitive Land |

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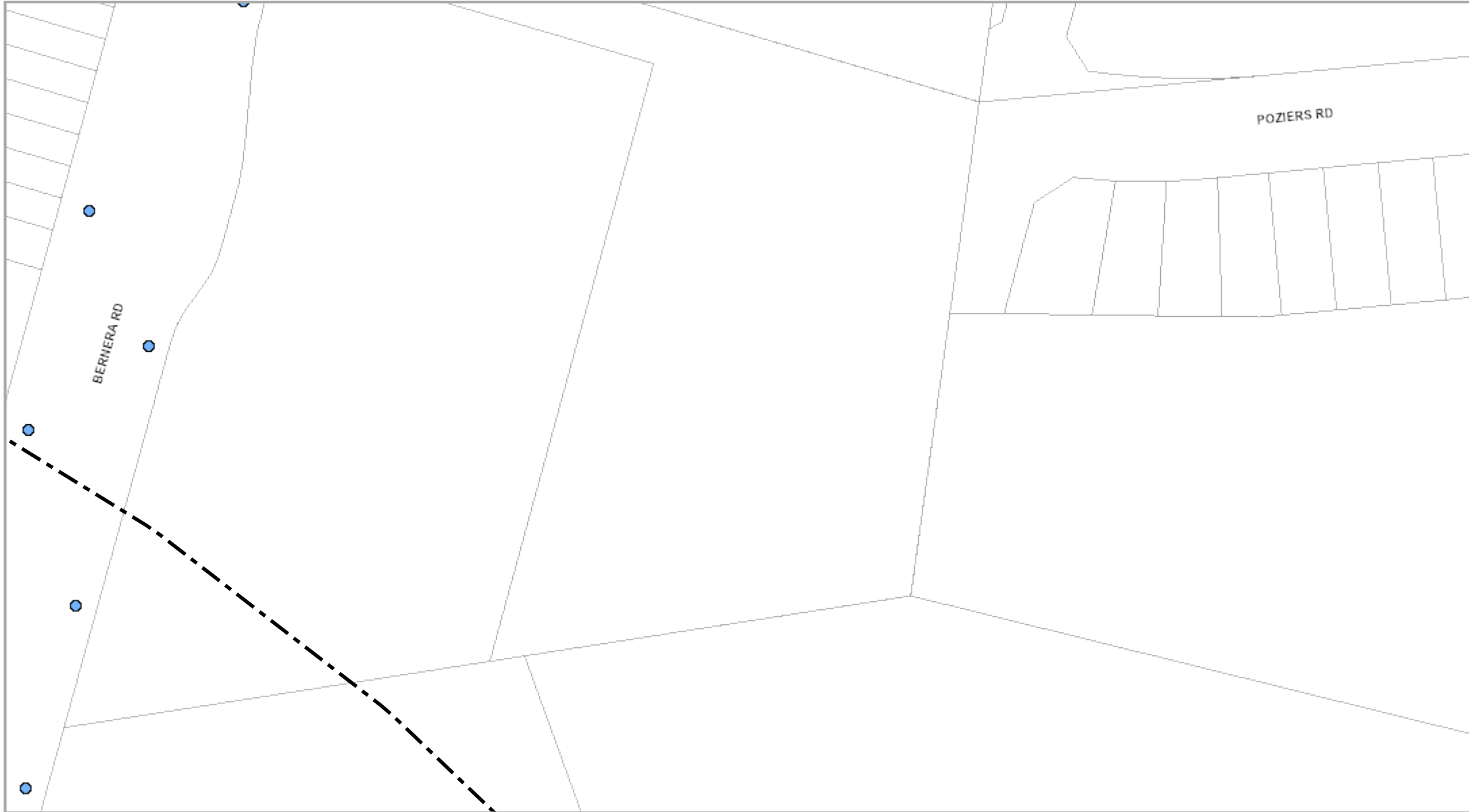


Legend | Scale: 1:1000 | Tile No: 3



- | | | |
|--|---|--|
| ■ Bus Stops | — Kerb and Gutter | Cadastre |
| ● Pits | — Footpaths and Cycleways | Bridges |
| ● Headwalls | — Pipes | Environmentally Sensitive Land |

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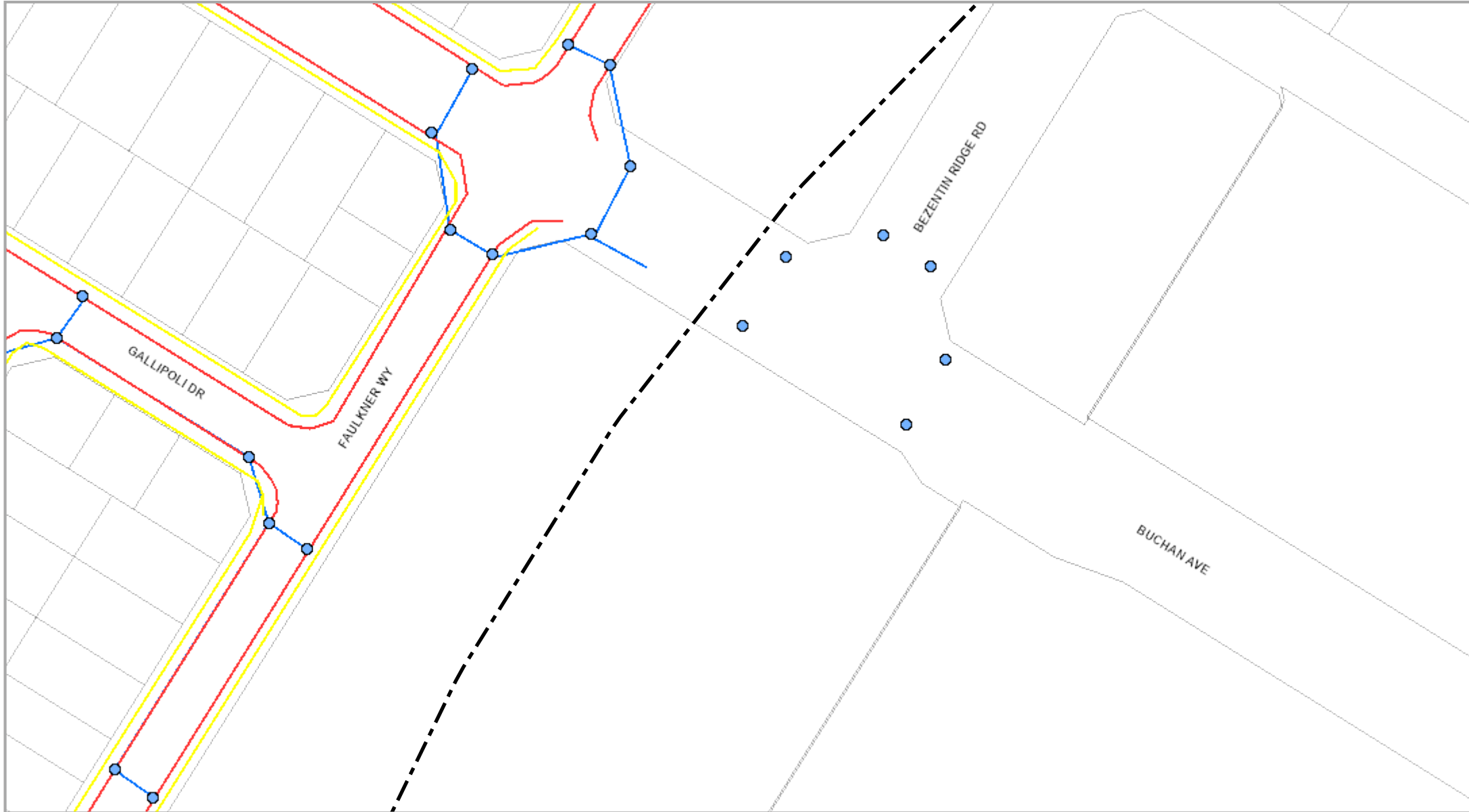


Legend | Scale: 1:1000 | Tile No: 4



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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Legend | Scale: 1:1000 | Tile No: 5

- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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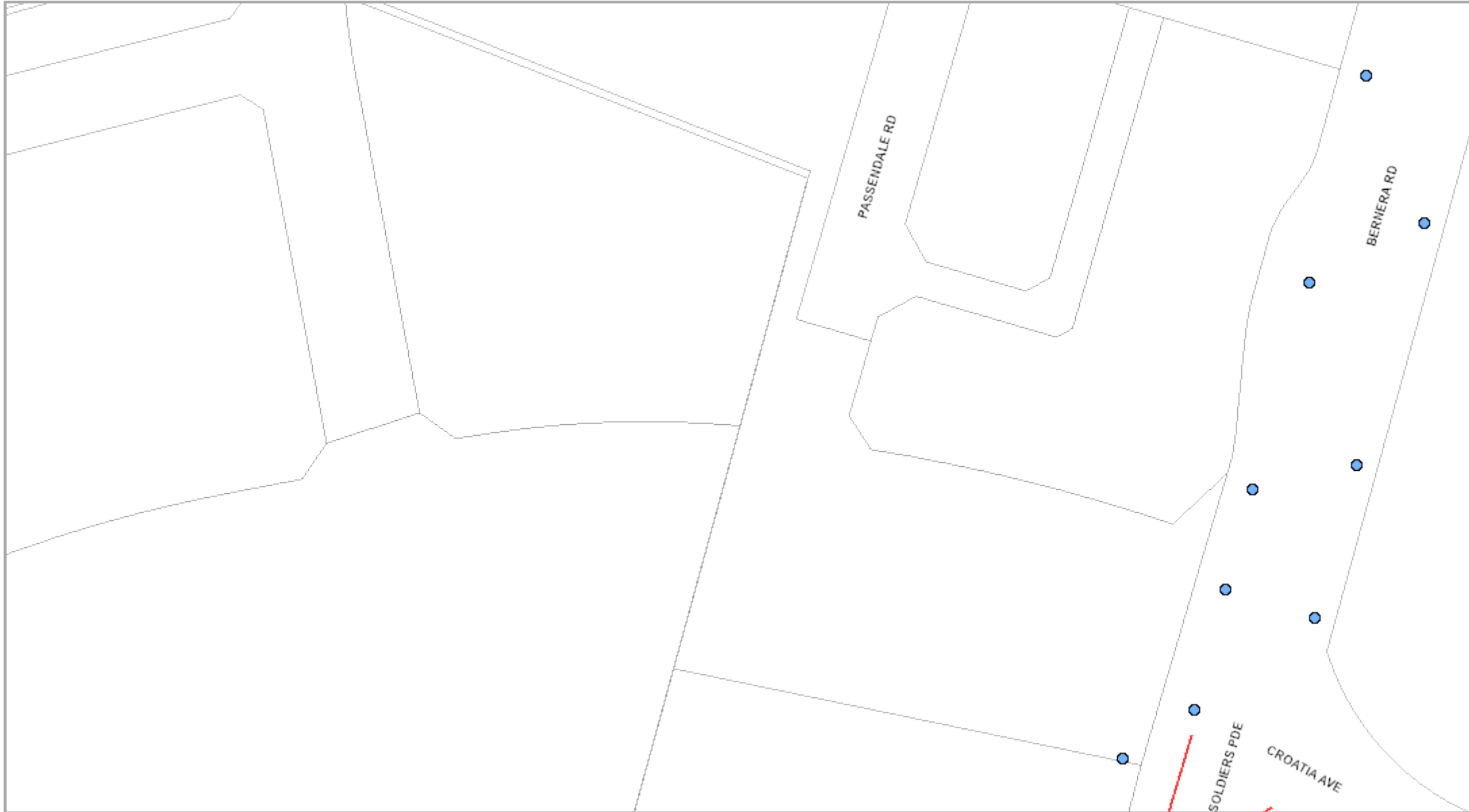


Legend | Scale: 1:1000 | Tile No: 6



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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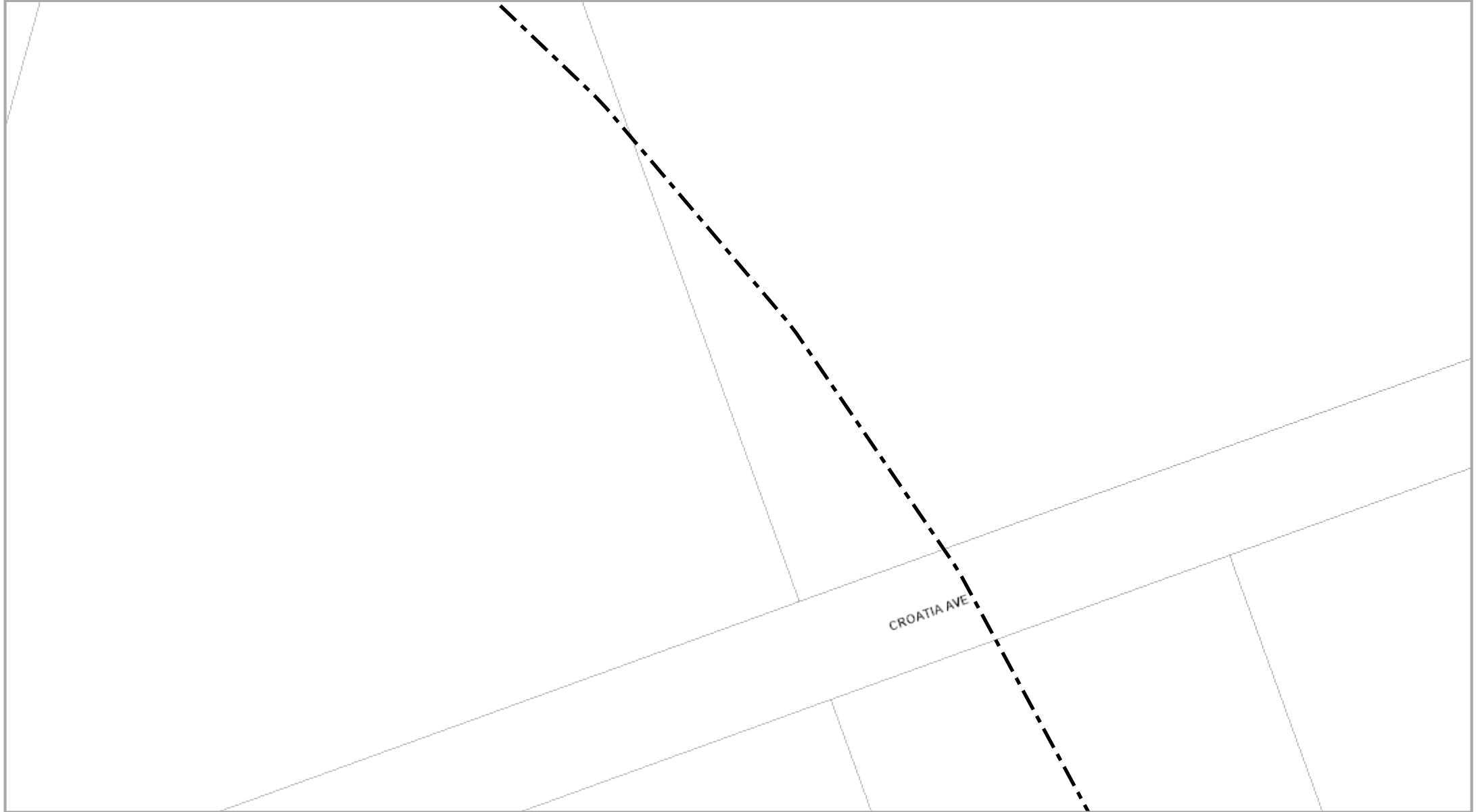


Legend | Scale: 1:1000 | Tile No: 7



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|-----------|-------------------------|--------------------------------|
| Bus Stops | Kerb and Gutter | Cadastre |
| Pits | Footpaths and Cycleways | Bridges |
| Headwalls | Pipes | Environmentally Sensitive Land |

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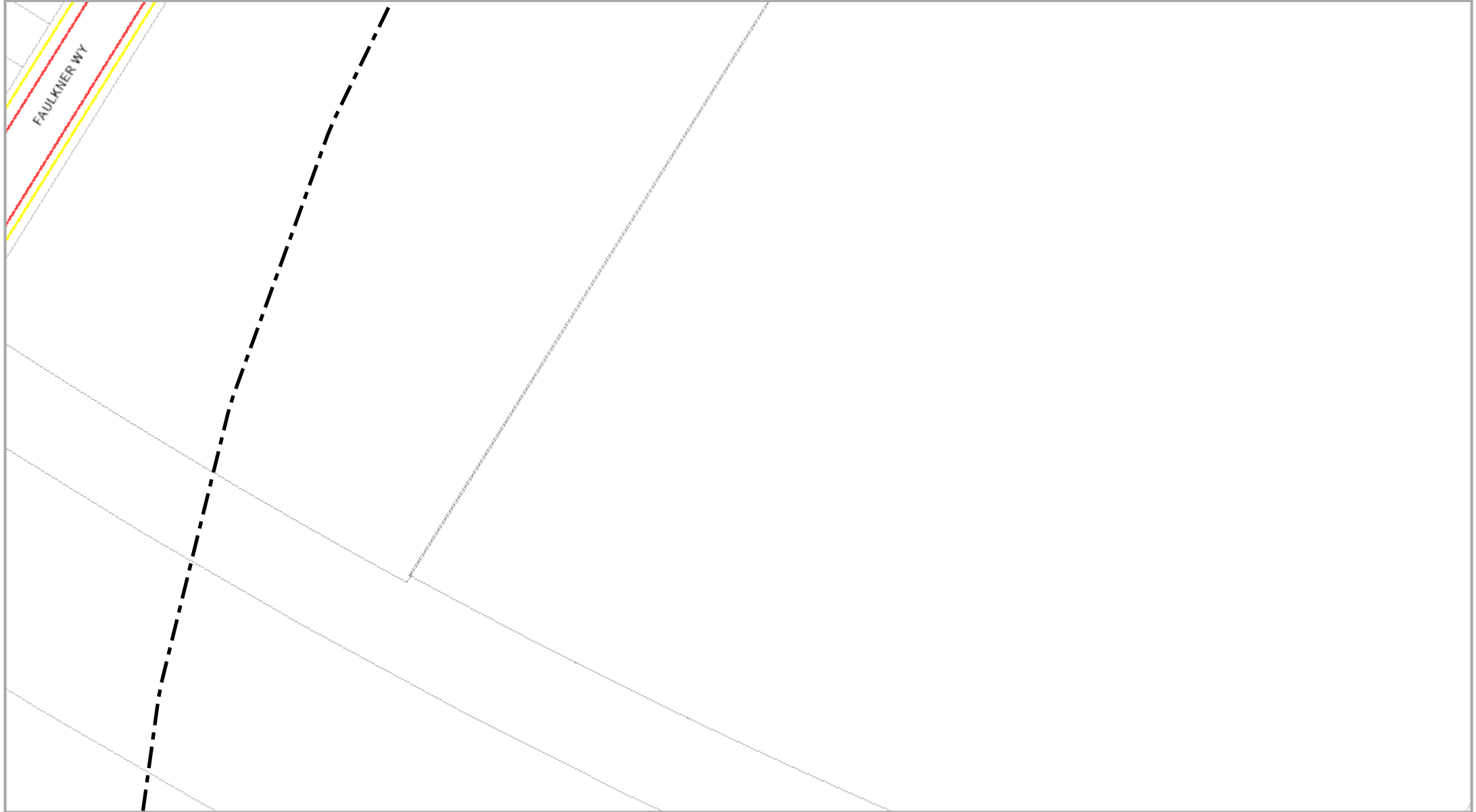


Legend | Scale: 1:1000 | Tile No: 8



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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Legend | Scale: 1:1000 | Tile No: 9



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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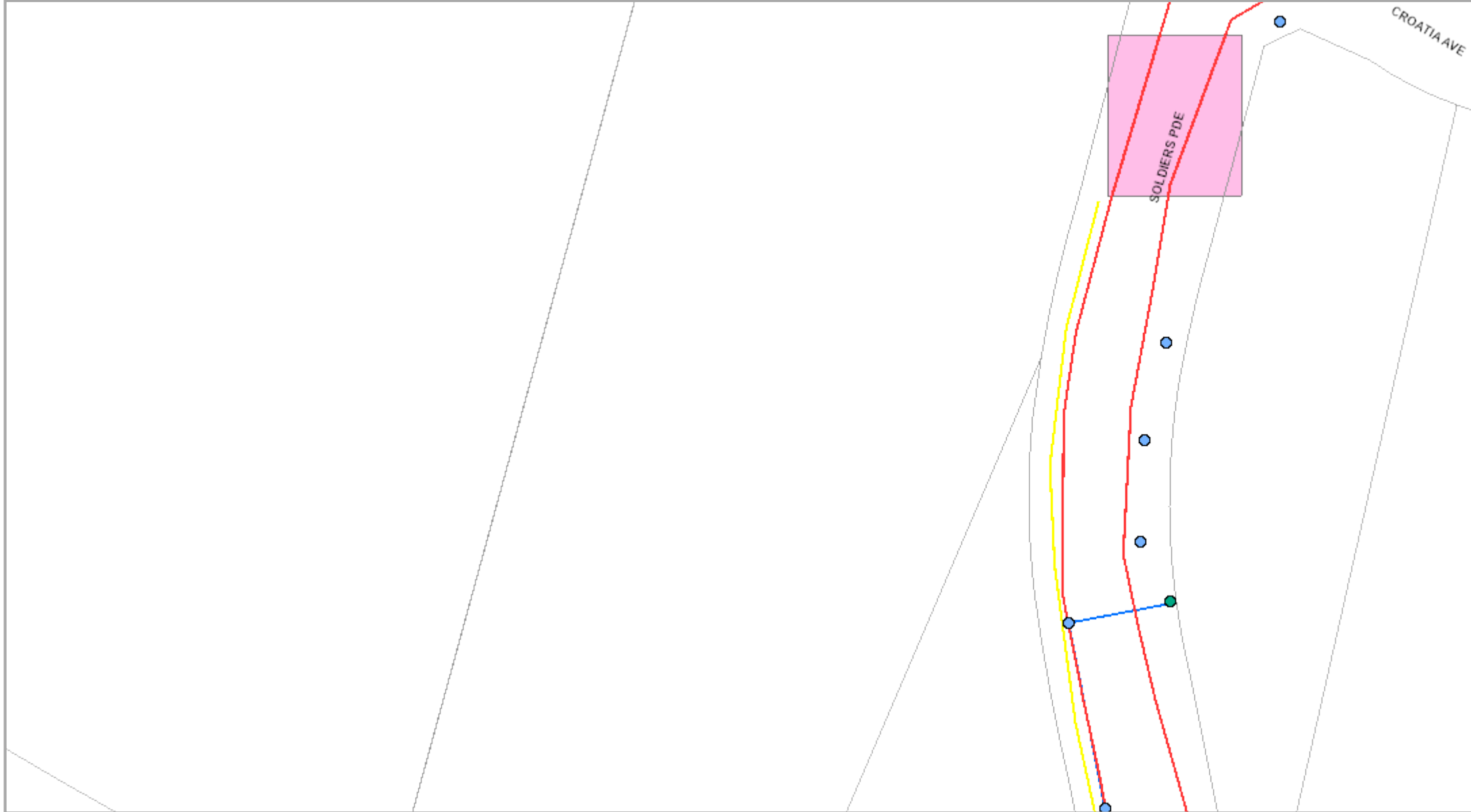


Legend | Scale: 1:1000 | Tile No: 10



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

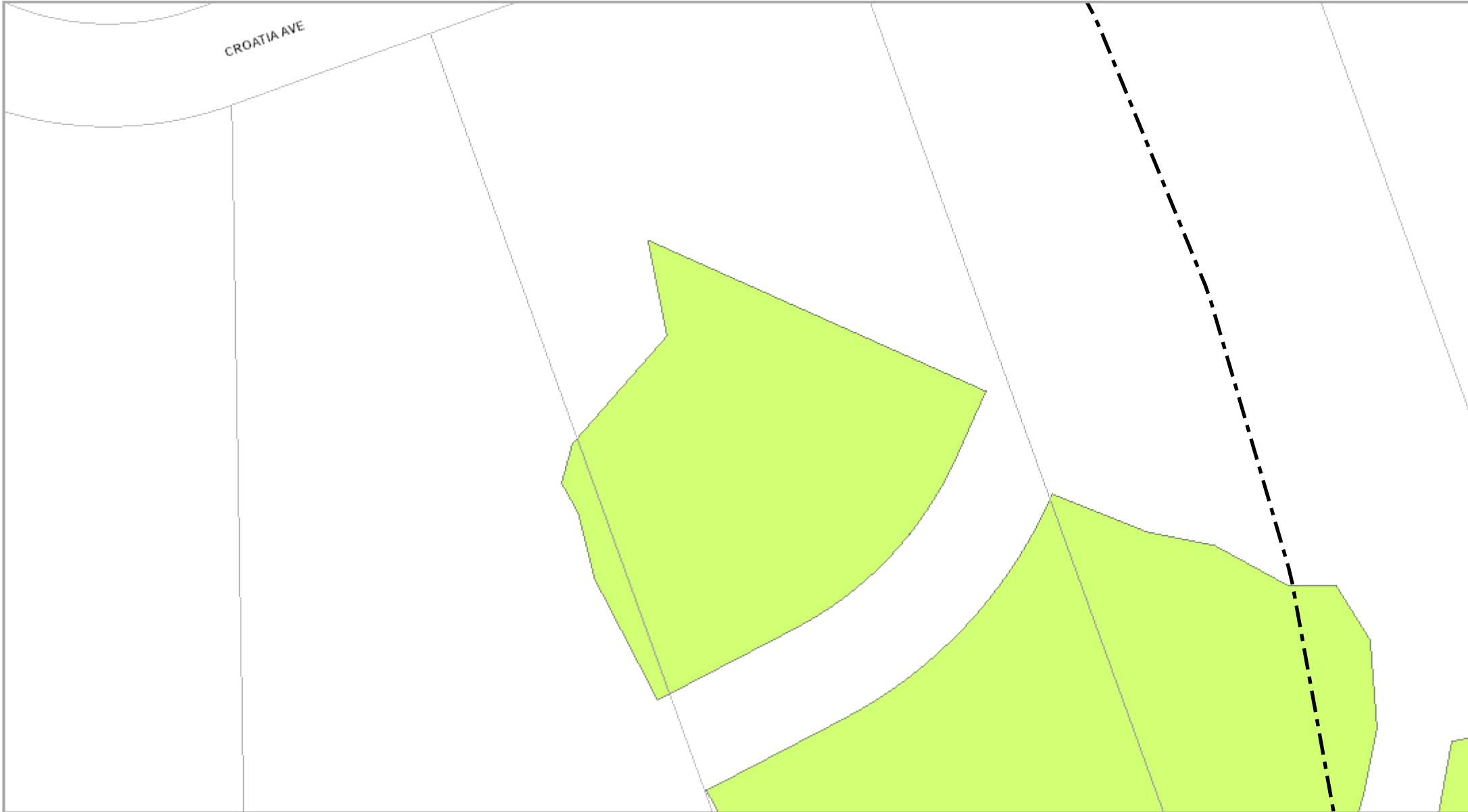
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Legend | Scale: 1:1000 | Tile No: 11

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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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Legend | Scale: 1:1000 | Tile No: 12

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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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Legend | Scale: 1:1000 | Tile No: 13

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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

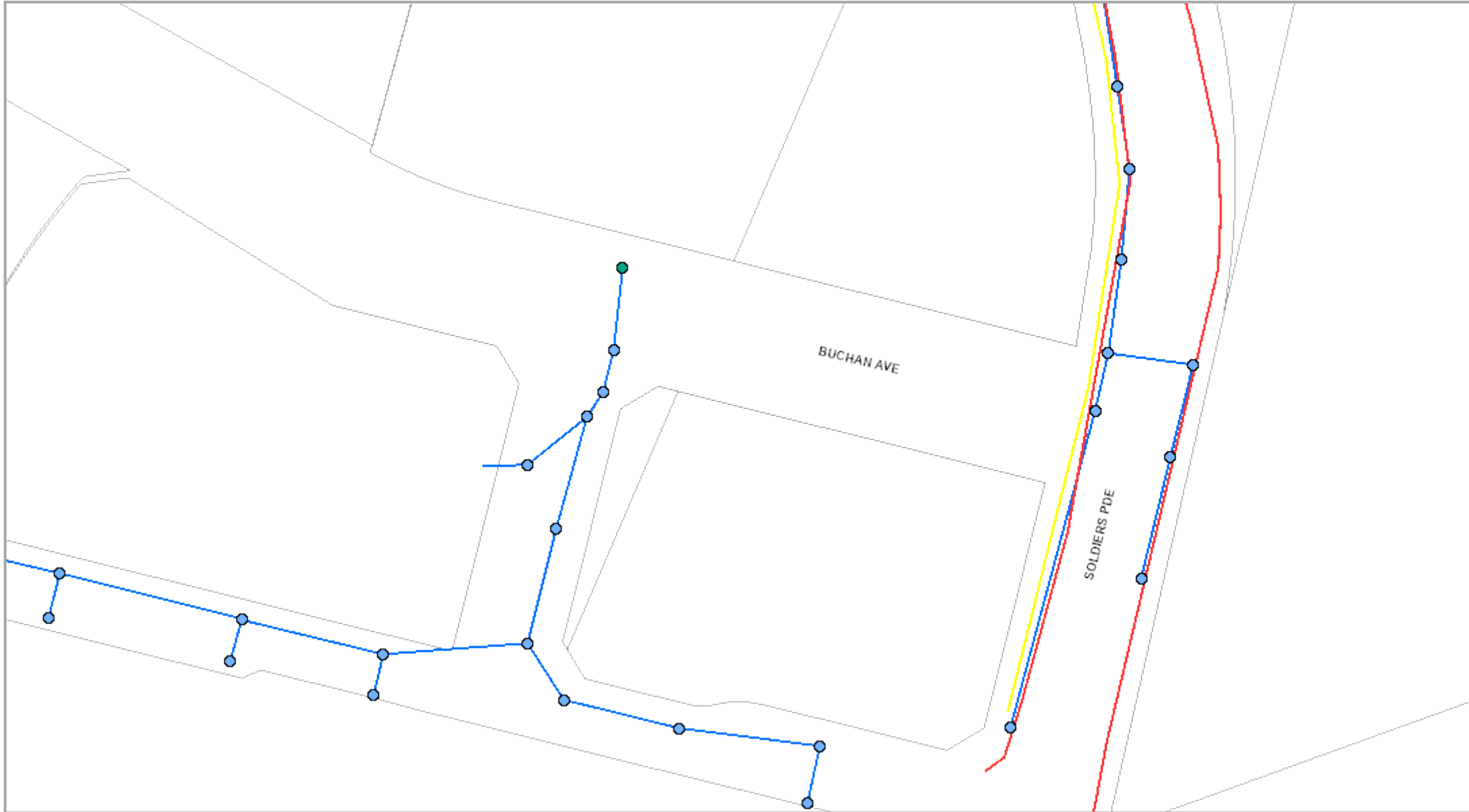
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Legend | Scale: 1:1000 | Tile No: 14

- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

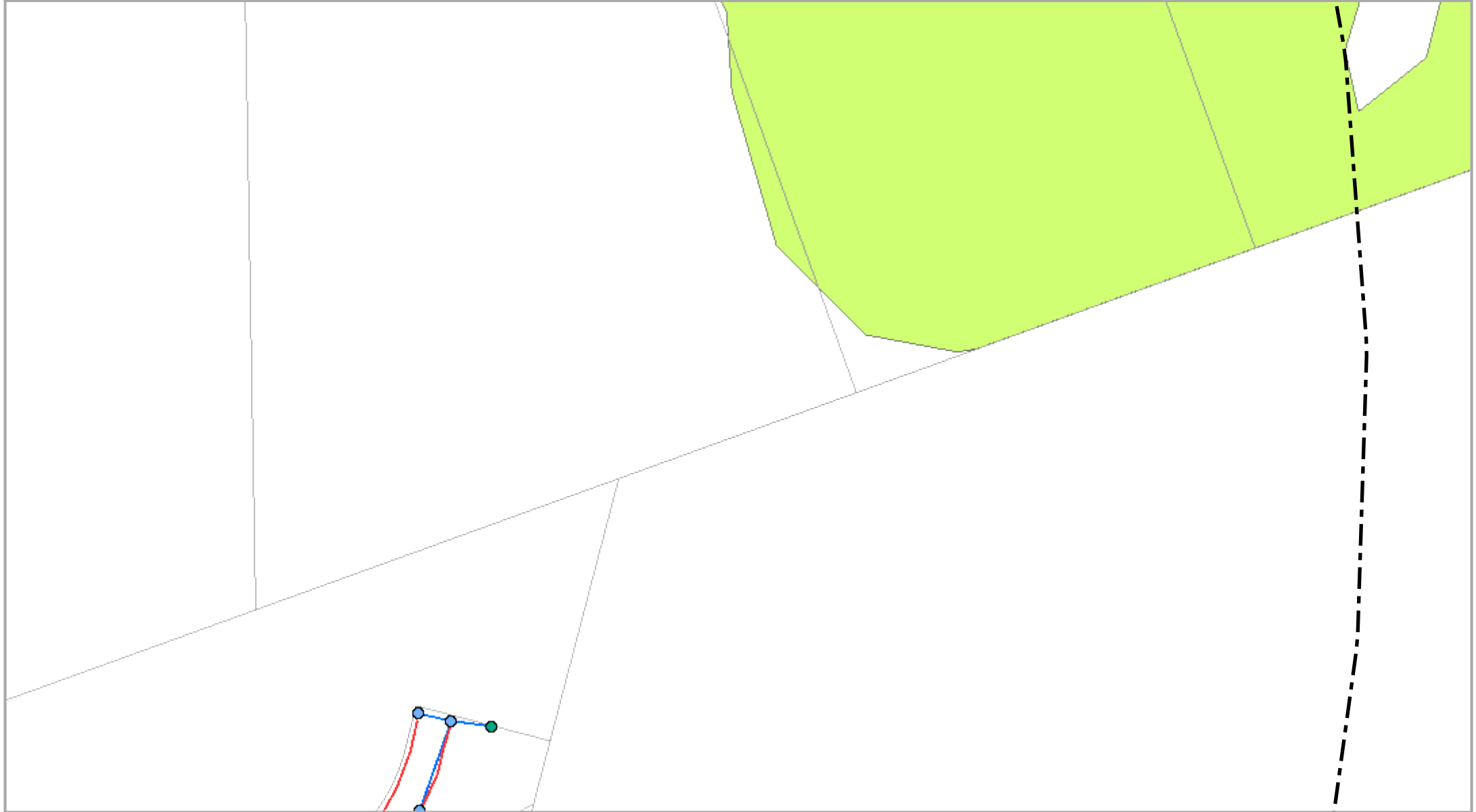
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Legend | Scale: 1:1000 | Tile No: 15

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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

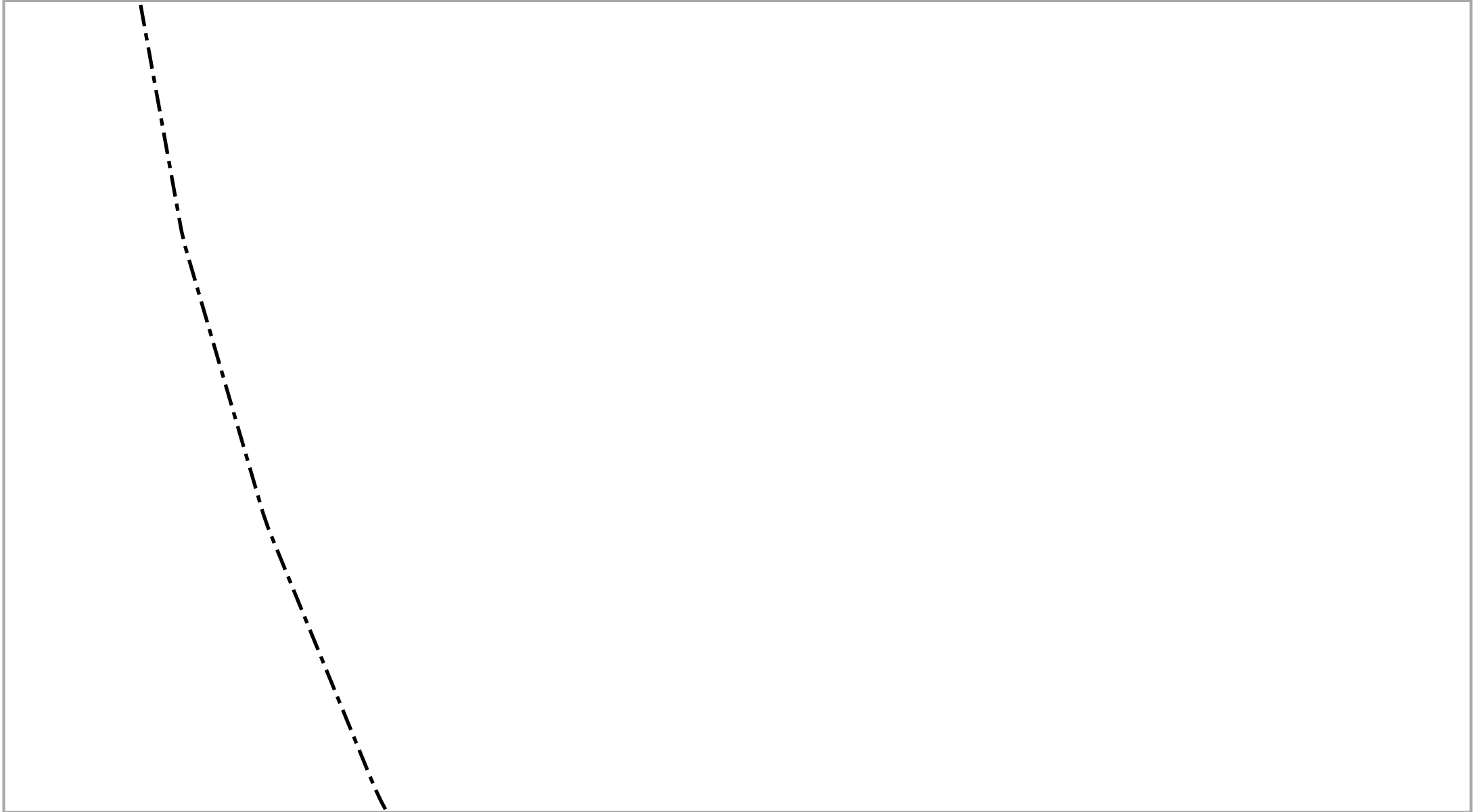
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Legend | Scale: 1:1000 | Tile No: 16

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|-----------|-------------------------|--------------------------------|
| Bus Stops | Kerb and Gutter | Cadastre |
| Pits | Footpaths and Cycleways | Bridges |
| Headwalls | Pipes | Environmentally Sensitive Land |

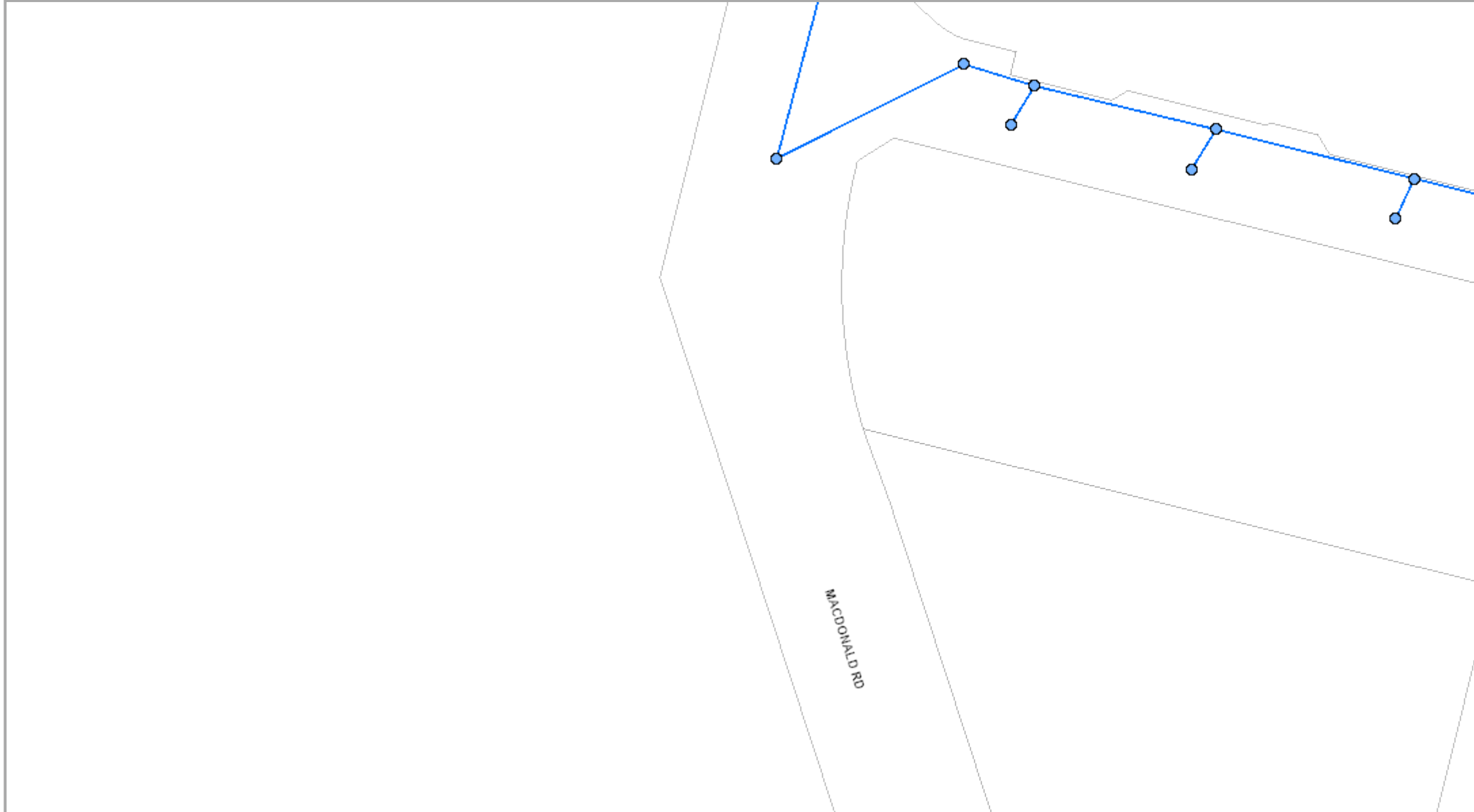
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Legend | Scale: 1:1000 | Tile No: 17

- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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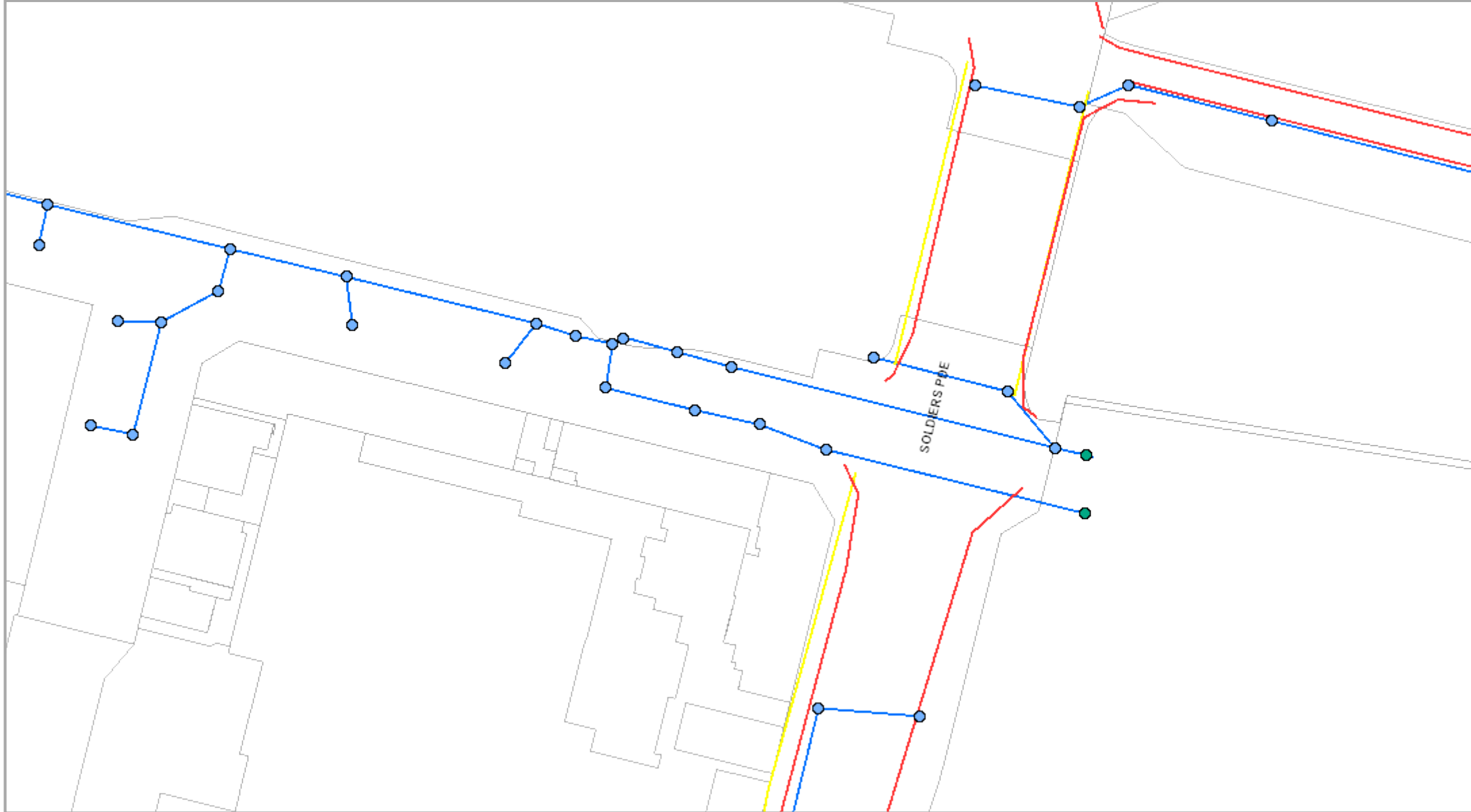


Legend | Scale: 1:1000 | Tile No: 18



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

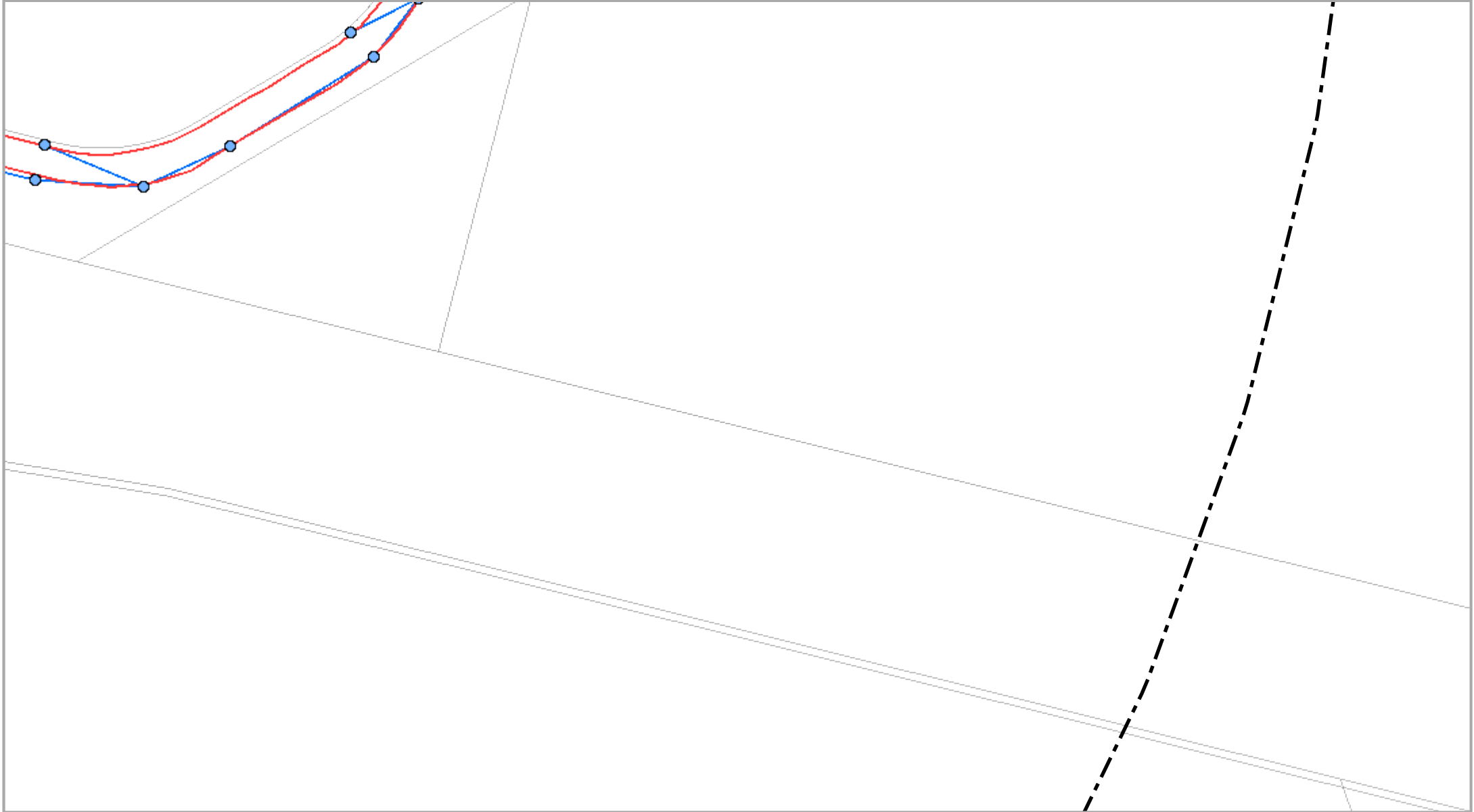
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Legend | Scale: 1:1000 | Tile No: 19

- | | | |
|-----------|-------------------------|--------------------------------|
| Bus Stops | Kerb and Gutter | Cadastre |
| Pits | Footpaths and Cycleways | Bridges |
| Headwalls | Pipes | Environmentally Sensitive Land |

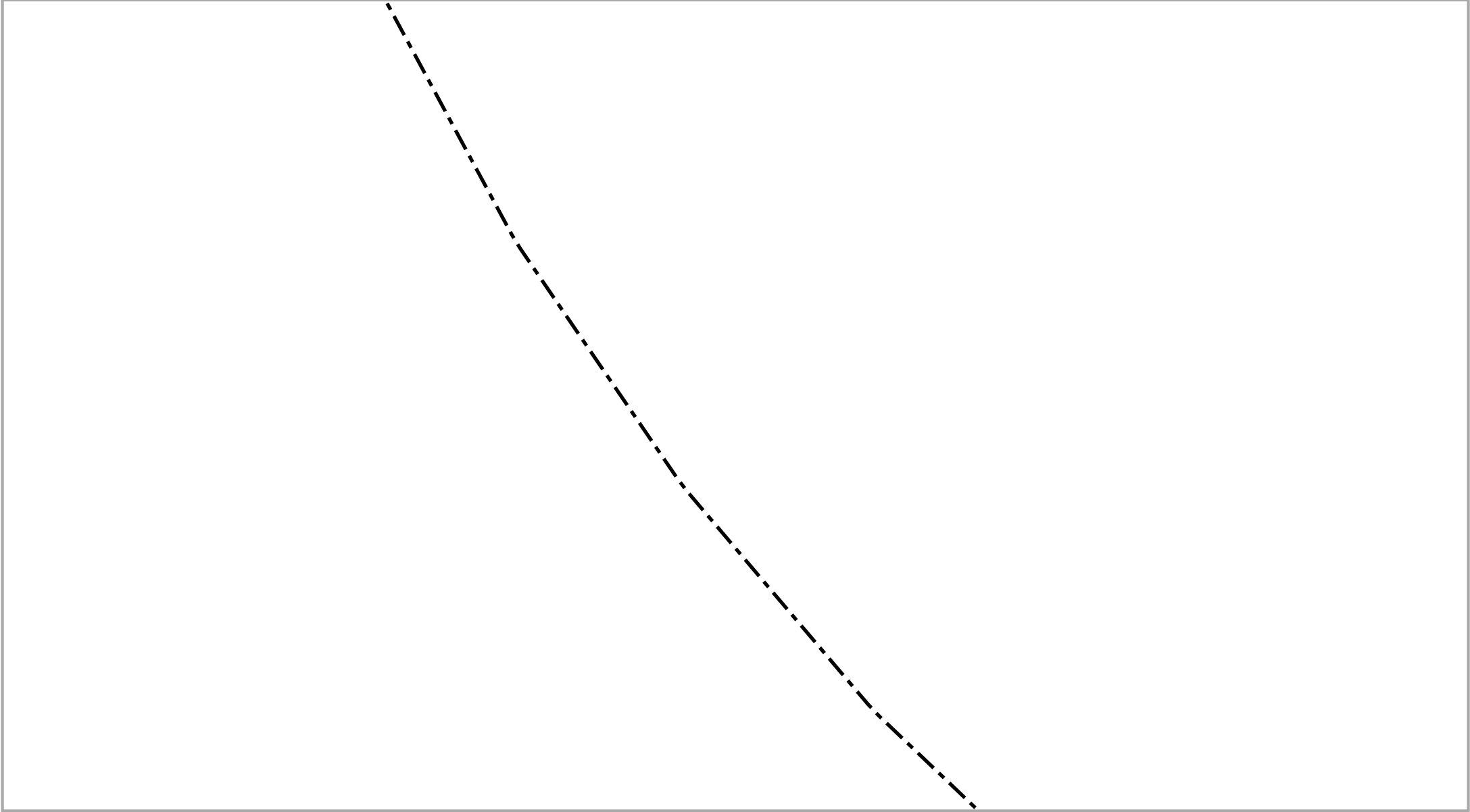
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Legend | Scale: 1:1000 | Tile No: 20

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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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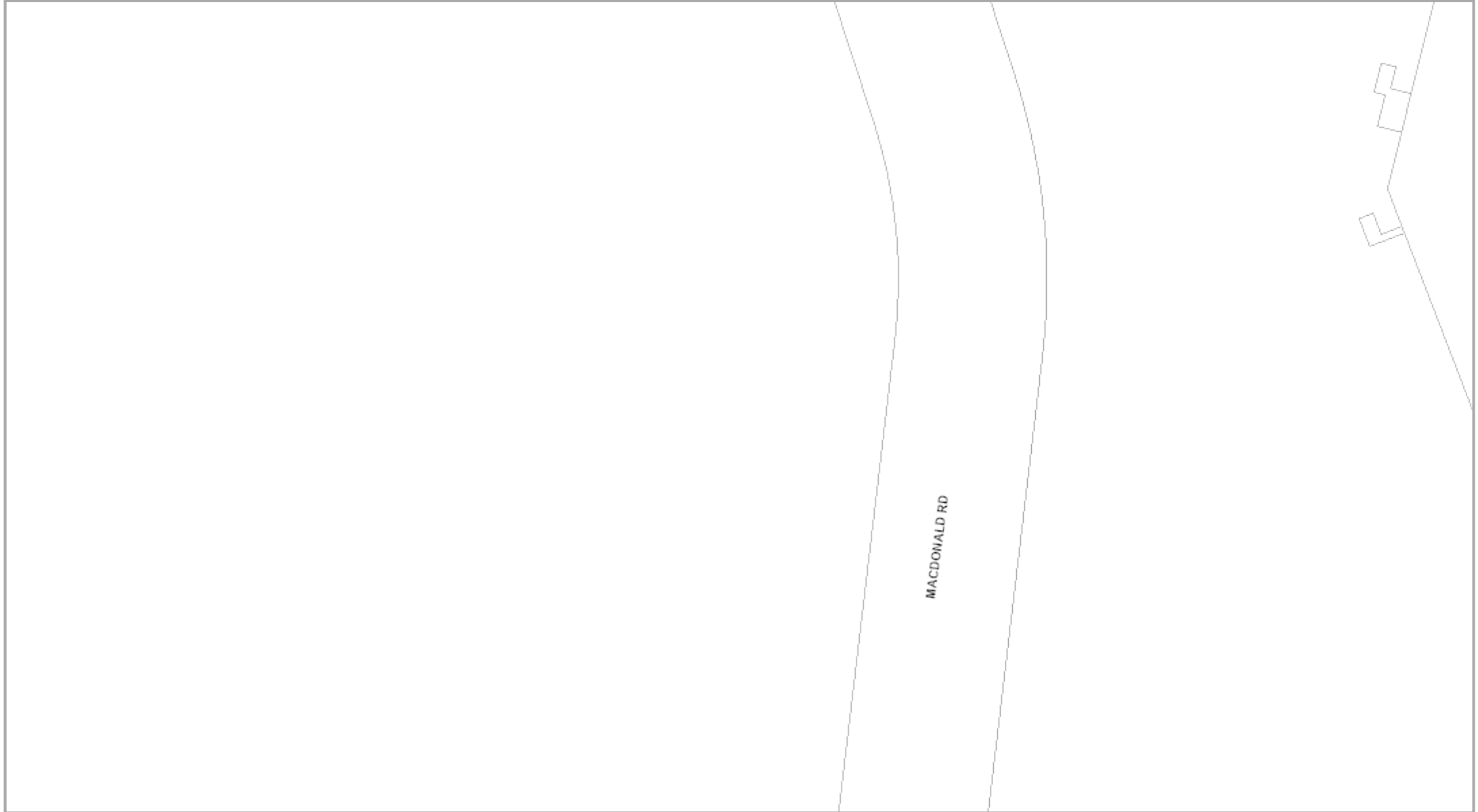


Legend | Scale: 1:1000 | Tile No: 21

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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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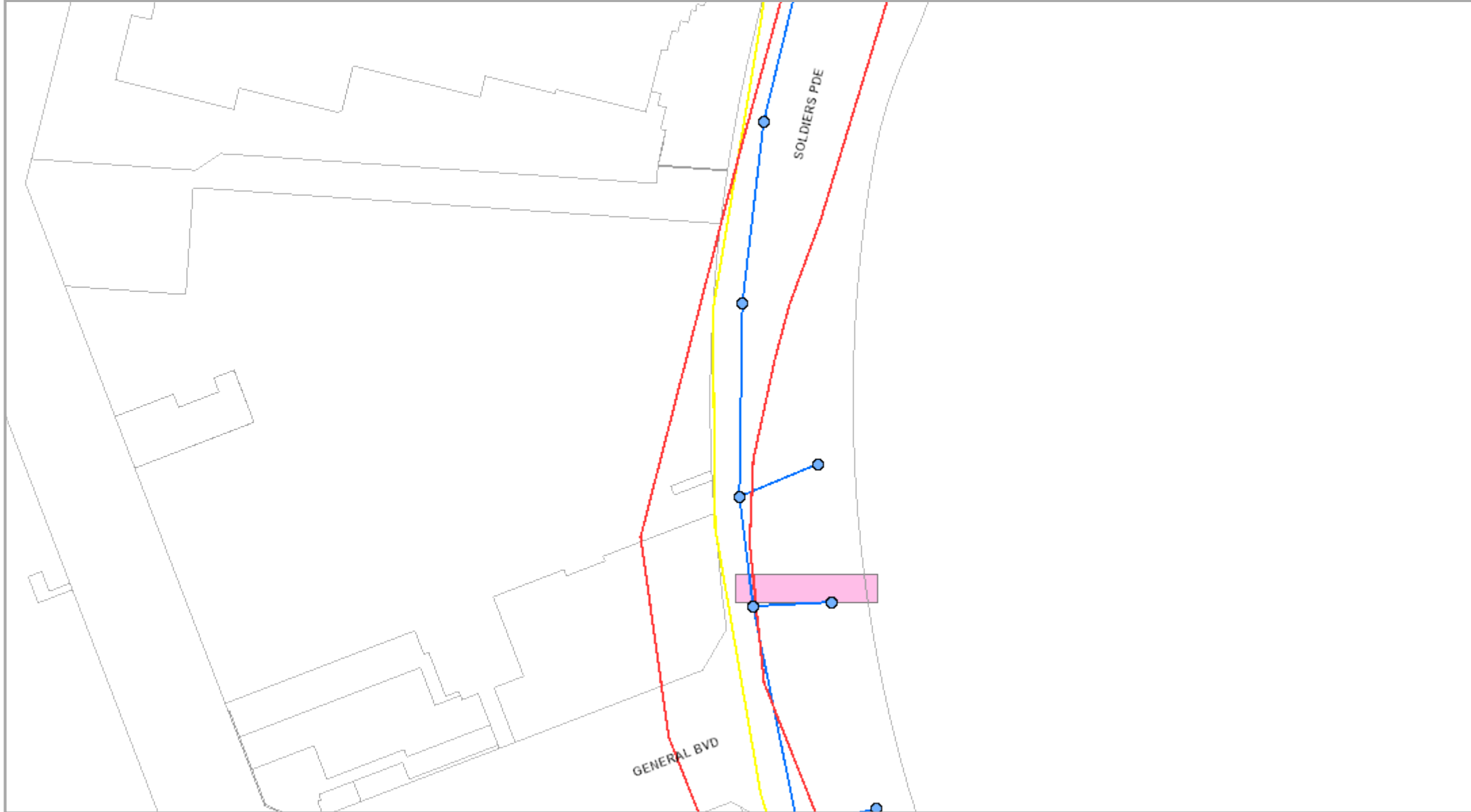


Legend | Scale: 1:1000 | Tile No: 22



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|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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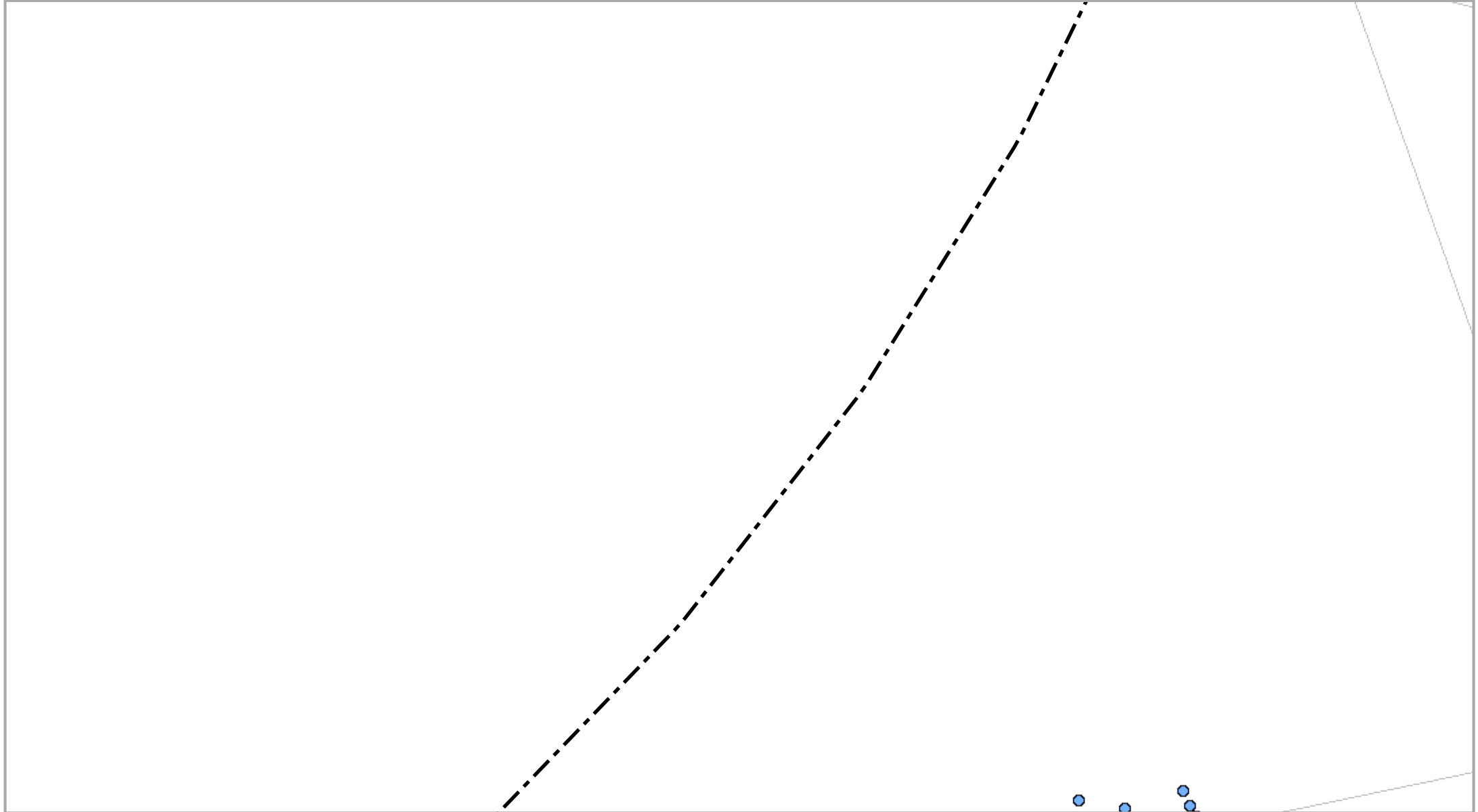


Legend | Scale: 1:1000 | Tile No: 23



- | | | |
|--|---|--|
| ■ Bus Stops | — Kerb and Gutter | Cadastre |
| ● Pits | — Footpaths and Cycleways | Bridges |
| ● Headwalls | — Pipes | Environmentally Sensitive Land |

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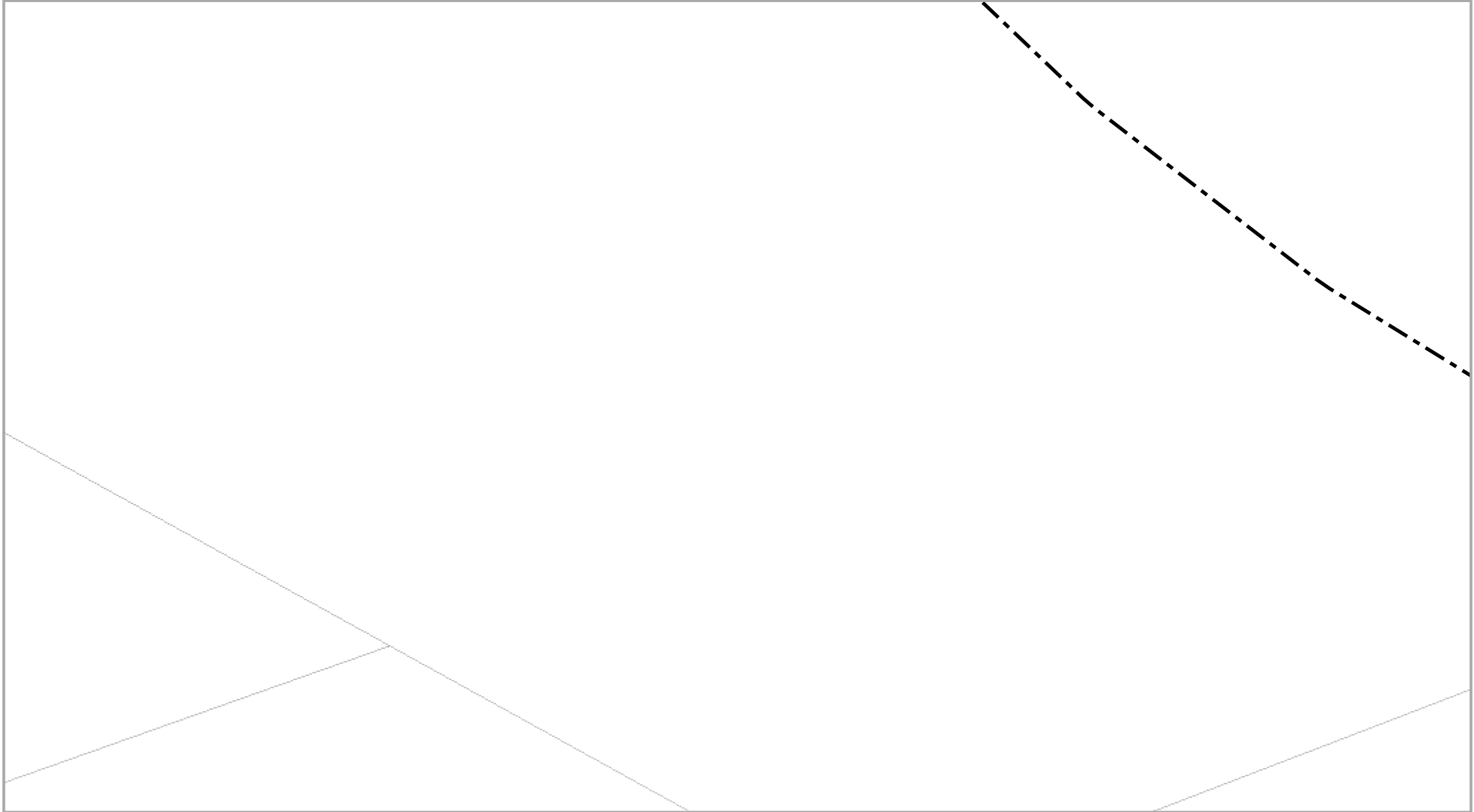


Legend | Scale: 1:1000 | Tile No: 24



- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

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Legend | Scale: 1:1000 | Tile No: 25

- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

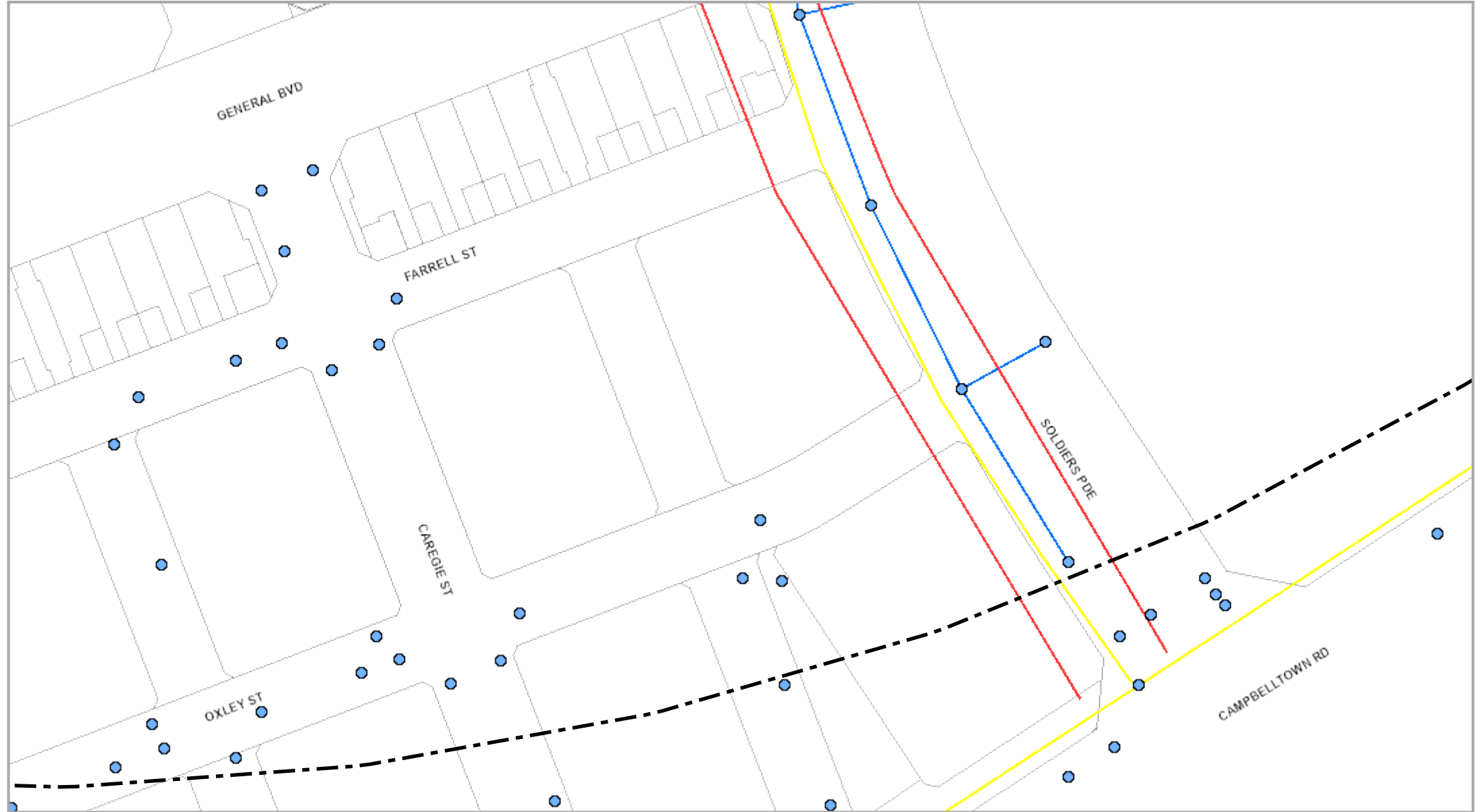
DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Liverpool City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



Legend | Scale: 1:1000 | Tile No: 26

- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

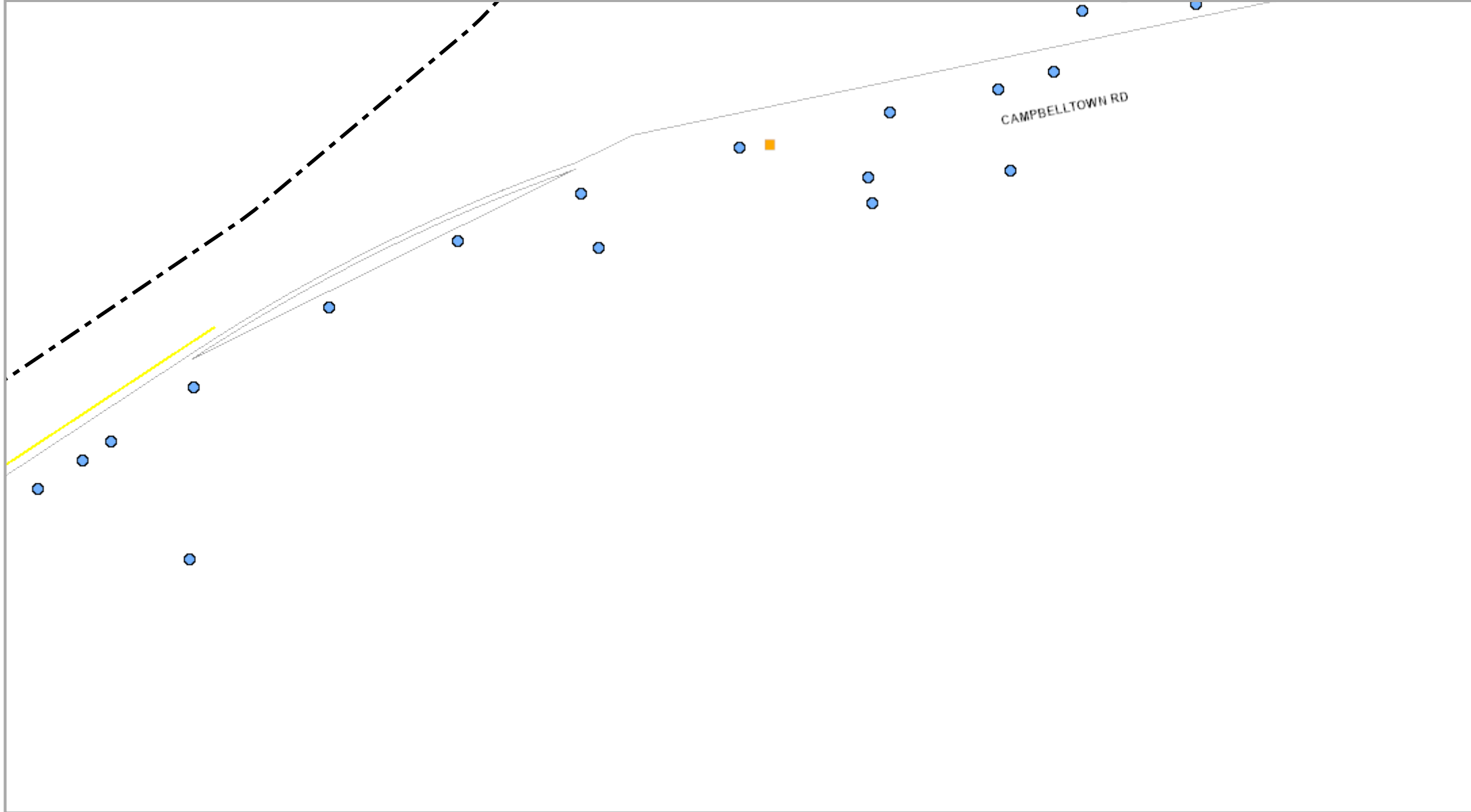
DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Liverpool City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



Legend | Scale: 1:1000 | Tile No: 27

- | | | |
|-----------|-------------------------|--------------------------------|
| Bus Stops | Kerb and Gutter | Cadastre |
| Pits | Footpaths and Cycleways | Bridges |
| Headwalls | Pipes | Environmentally Sensitive Land |

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Liverpool City Council or 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. Use of such information is subject to and constitutes acceptance of these terms.



Legend | Scale: 1:1000 | Tile No: 28

- | | | |
|---|---|--|
|  Bus Stops |  Kerb and Gutter |  Cadastre |
|  Pits |  Footpaths and Cycleways |  Bridges |
|  Headwalls |  Pipes |  Environmentally Sensitive Land |

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Liverpool City Council or 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. Use of such information is subject to and constitutes acceptance of these terms.

DISCLAIMER AND COUNCIL REQUIREMENTS RELATING TO INFORMATION PROVIDED BY LIVERPOOL CITY COUNCIL (LCC) FOR ASSET LOCATIONS

A. DISCLAIMER

1. LCC only provides information showing infrastructure assets owned by LCC. (You must approach other agencies such as Sydney Water, Telstra, NBN, RMS, gas and electricity providers for details of their particular assets which may be located on LCC property).
2. Because of the nature and age of some LCC infrastructure assets, LCC does not guarantee that information provided to you is complete. Therefore, LCC information provided to you is indicative only.
3. LCC seeks to ensure the accuracy of information provided must be confirmed by field investigation. It is recommended a specialist utility locating company be engaged for the location of assets. For stormwater drainage, a qualified plumber may also be able to locate Council assets.
4. LCC makes no representation or warranty about the accuracy, reliability, completeness or suitability for any particular purpose of the information provided to you and, therefore, disclaims all responsibility and liability (including without limitation liability in negligence) for any expense, loss and damage (including indirect or consequential damage) which may be incurred by you or any other person as a result of the information provided to you being inaccurate or incomplete in any way and for any reason.
5. Information provided by LCC to you is valid for one month only.
6. You should promptly report any difference between information provided to you by LCC and the actual location of any LCC assets by contacting LCC on 1300 36 2170 or email: lcc@liverpool.nsw.gov.au
7. Information provided to you by LCC has been generated by an automated system based on the area highlighted in the "Locality Indication Only" window on your DBYD search request.

B. INFORMATION REGARDING LCC REQUIREMENTS FOR WORKS ON LCC ROAD RESERVES

1. Works within LCC road reserves, require written consent from LCC prior to commencement in accordance with section 138 of the *Roads Act* 1993. Depending on the type of intended work that you may be undertaking, you may need to complete a Road Opening Application form and/or a Road Occupancy Application form. If this is the case, you must submit the relevant form and pay the associated fee to LCC before you can obtain a permit to undertake your works (You may obtain the required application form by contacting LCC on 1300 36 2170 or by downloading the form on LCC's website: www.liverpool.nsw.gov.au)
2. You must not commence work without a permit issued by LCC.
3. Pollution resulting from works in or near LCC land, including the Public Road Reserve, must be reported to LCC immediately on 1300 36 2170 in accordance with section 148 of the *Protection of the Environment Operations Act* 1997 (POEO Act).
4. You must report any damage to LCC assets to LCC on 1300 36 2170 immediately.
5. You and/or your agents, contractors or employees will be responsible for any damage occurring to LCC assets as a result of your work. In which case, LCC will recover compensation for loss or damage and repair cost any asset damaged by you and/or your agents, contractors or employees.
6. You are responsible for ensuring that the dig site is properly defined when submitting your Dial before You Dig enquiry.
7. A copy of LCC maps as well as any other information provided to you by Council must remain onsite at all times throughout the inspection, location and construction phase of any works and must be produced when required by an authorised Council officer.
8. When LCC assets are disturbed and/or excavated and temporary restoration works have not been properly completed in a timely manner there are increased risks for members of the public using footpaths or roads near such disturbed and/or excavated works.
9. This information is provided because some contractors who have undertaken excavation works without applying for Road Opening Permits leaving LCC assets without restoration and thereby causing loss to LCC and rate payers as well as causing danger or nuisance to members of the public.



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

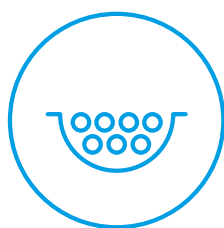
Once the DBYD plans are reviewed, the Five P's of Excavation should be adopted in conjunction with your safe work practices (which must be compliant with the relevant state Electrical Safety Act and Safe Work Australia "Excavation Work Code of Practice", as a minimum) to ensure the risk of any contact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



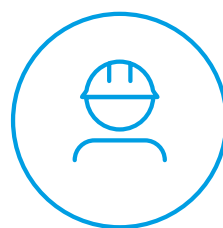
Plan: Plan your job by ensuring the plans received are current and apply to the work to be performed. Also check for any visual cues that may indicate the presence of services not covered in the DBYD plans.



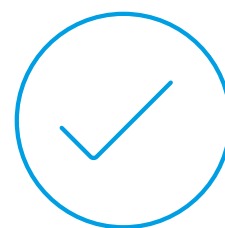
Prepare: Prepare for your job by engaging a DBYD Certified Plant Locator to help interpret plans and identify on-site assets. Contact **nbn** should you require further assistance.



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.

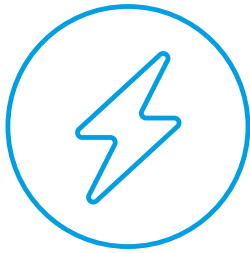


Protect: Protecting and supporting the exposed **nbn** underground asset is the responsibility of the worker. Exclusion zones for **nbn** assets are clearly stated in the plan and appropriate controls must be implemented to ensure that encroachment into the exclusion zone by machinery or activities with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

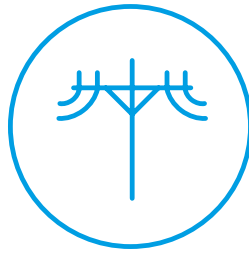


Proceed: Proceed only when the appropriate planning, preparation, potholing and protective measures are in place.

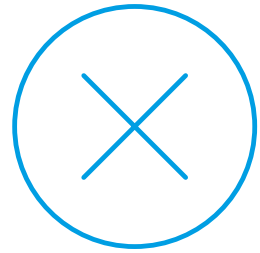
Working near **nbn**[™] cables



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**[™] 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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To: ADP Consulting
Phone: Not Supplied
Fax: Not Supplied
Email: sydneyutilities@adpconsulting.com.au

Dial before you dig Job #:	51193194	 BEFORE YOU DIG www.byda.com.au Zero Damage - Zero Harm
Sequence #	261230593	
Issue Date:	16/09/2025	
Location:	180 Croatia Avenue , Edmondson Park , NSW , 2174	

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

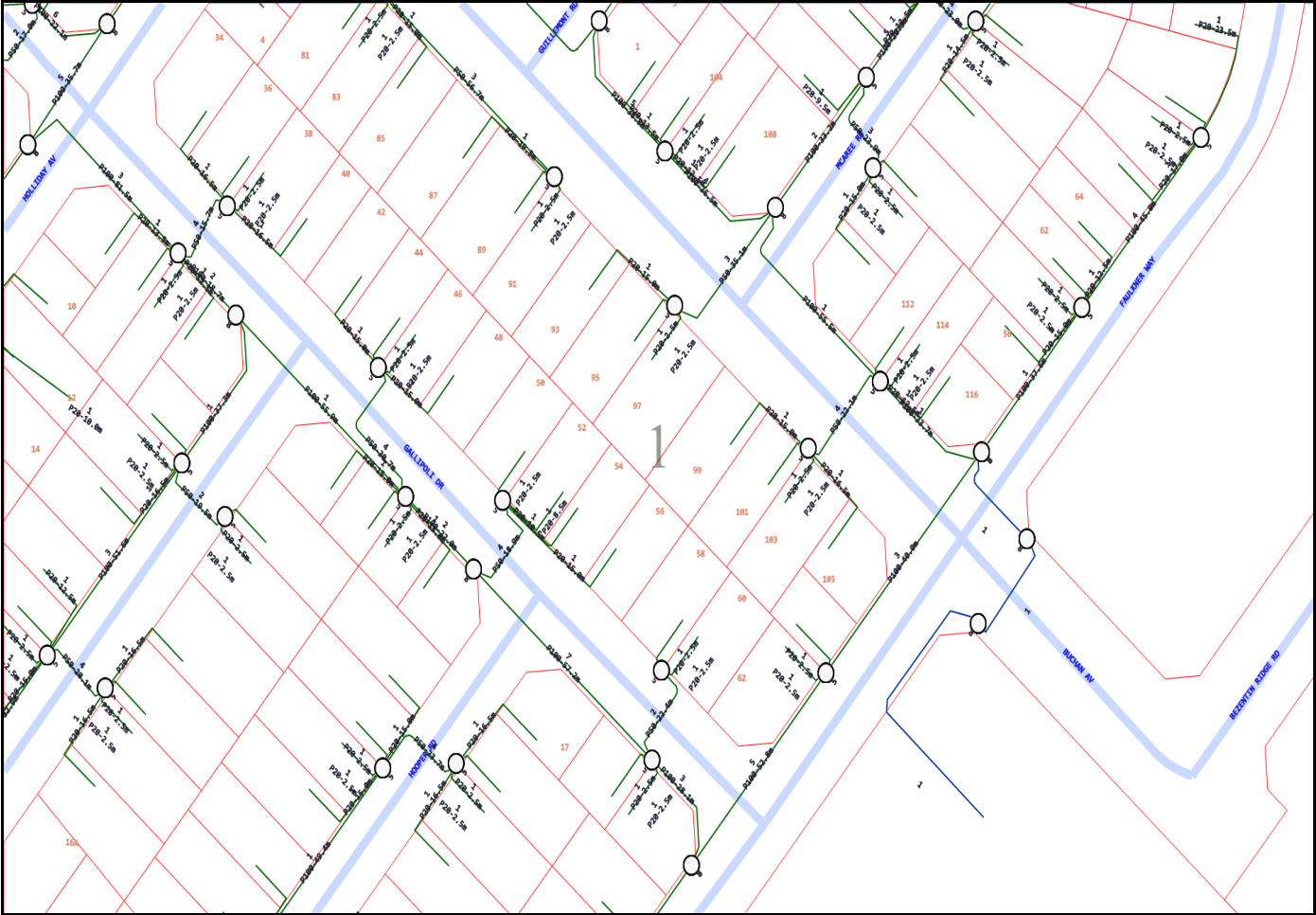


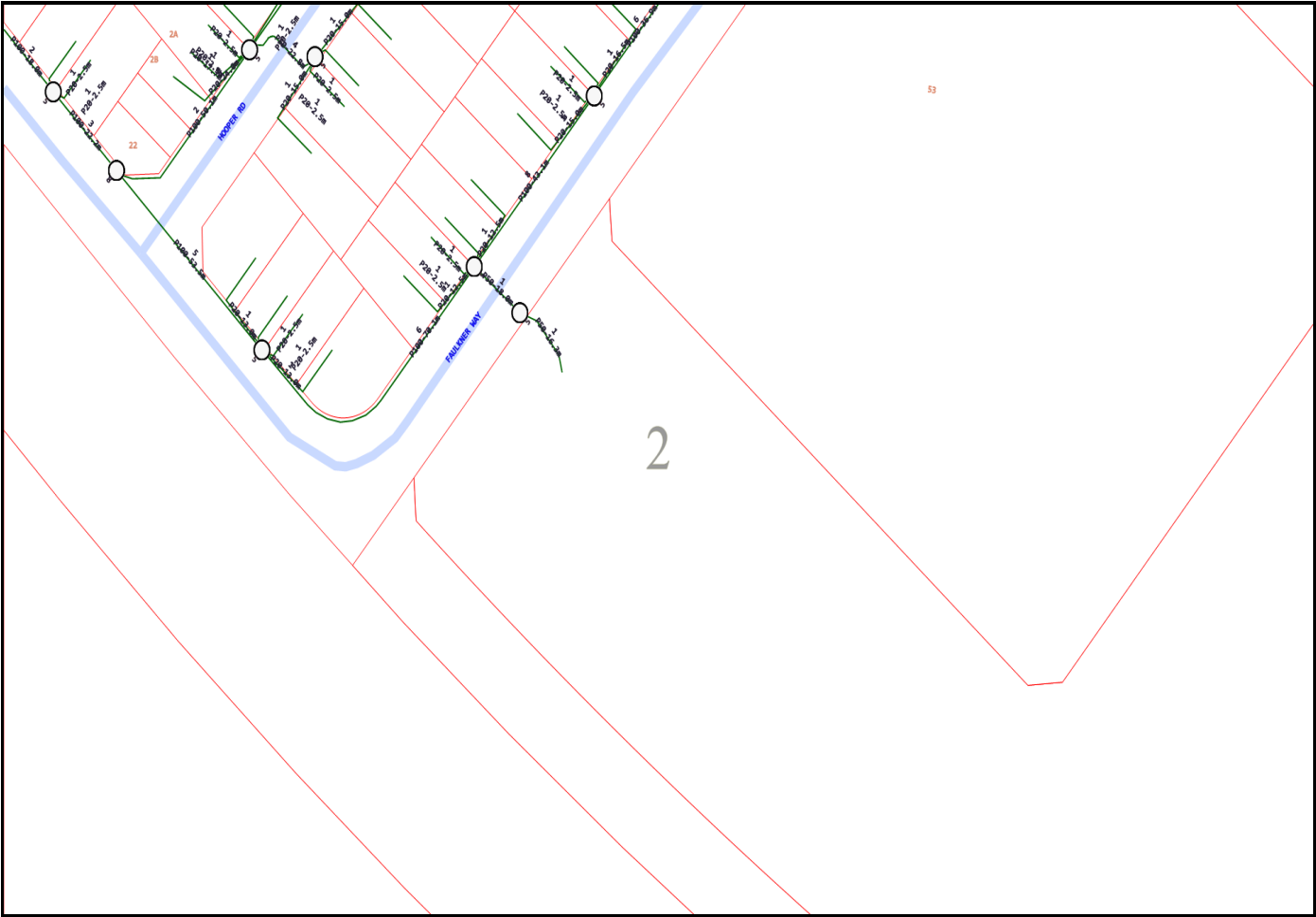


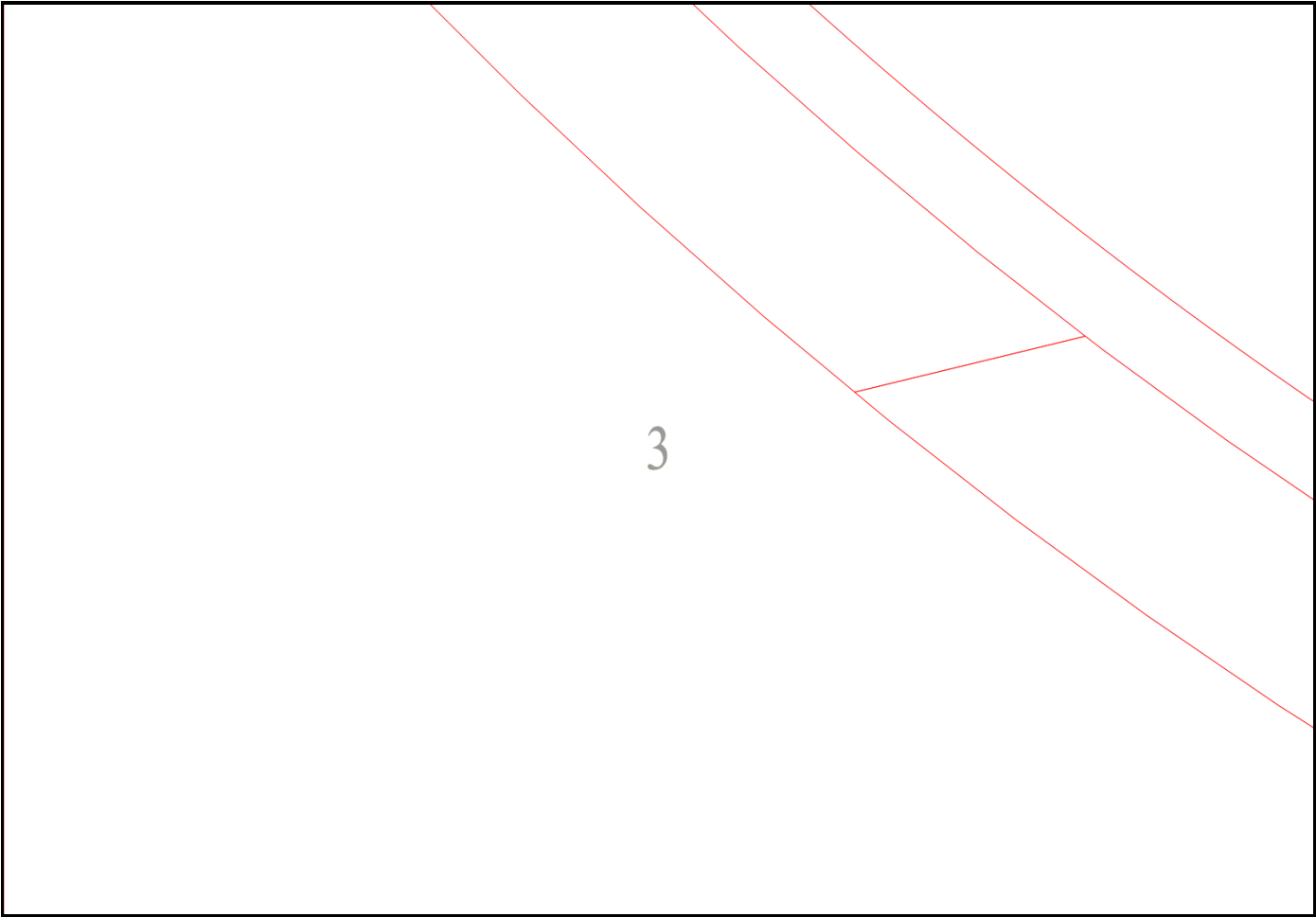
LEGEND



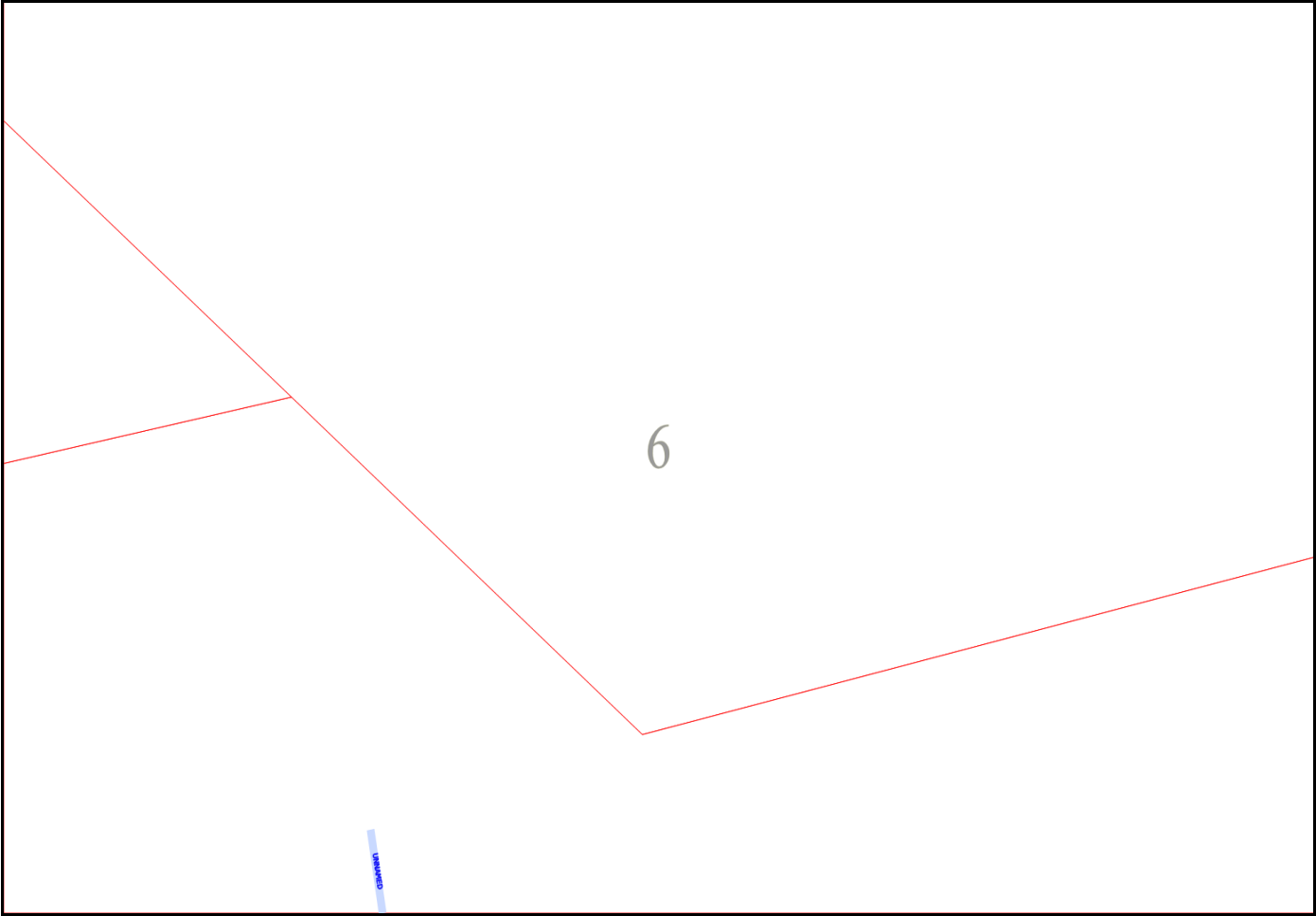
	Parcel and the location
	Pit with size "5"
	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) 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

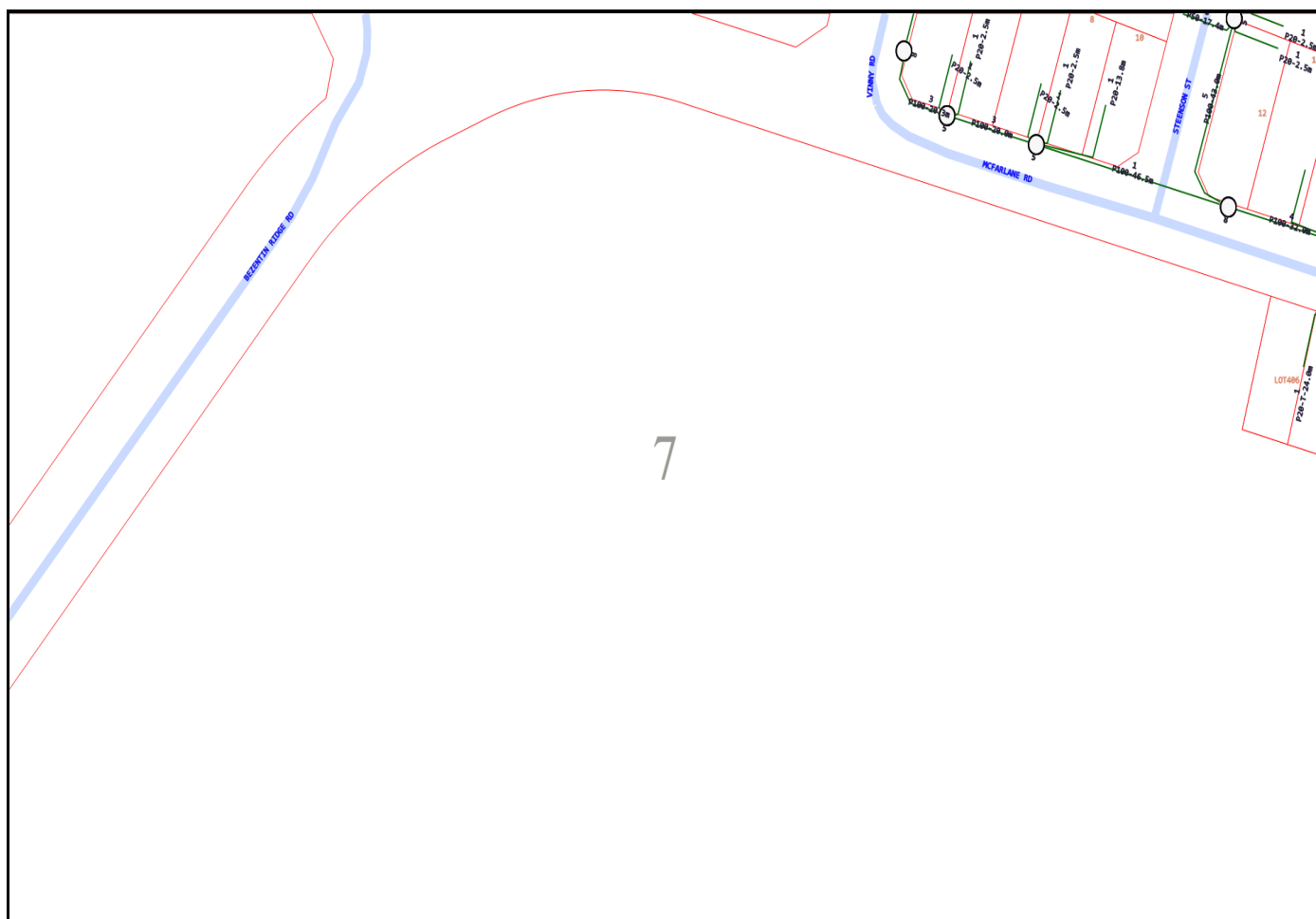


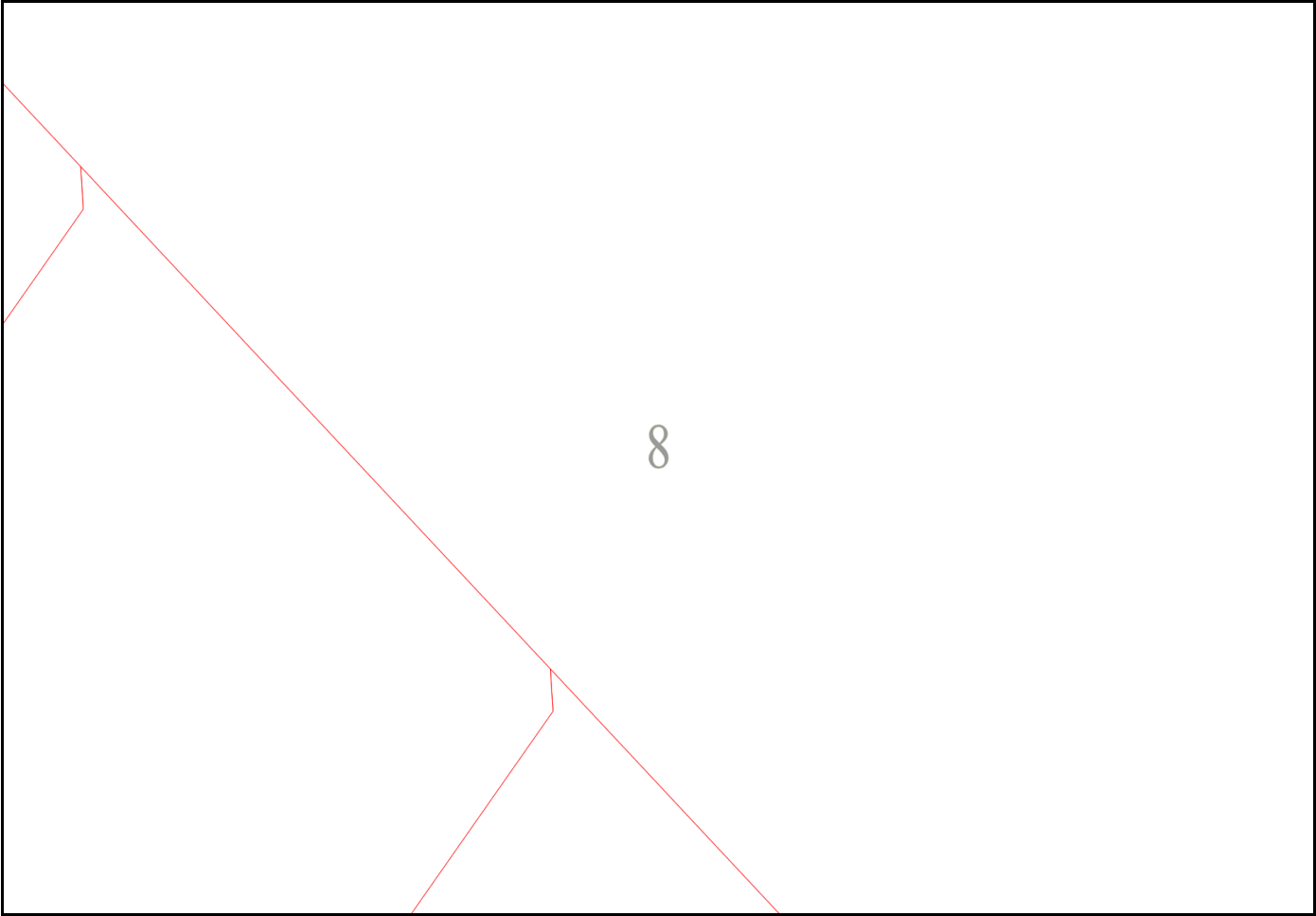


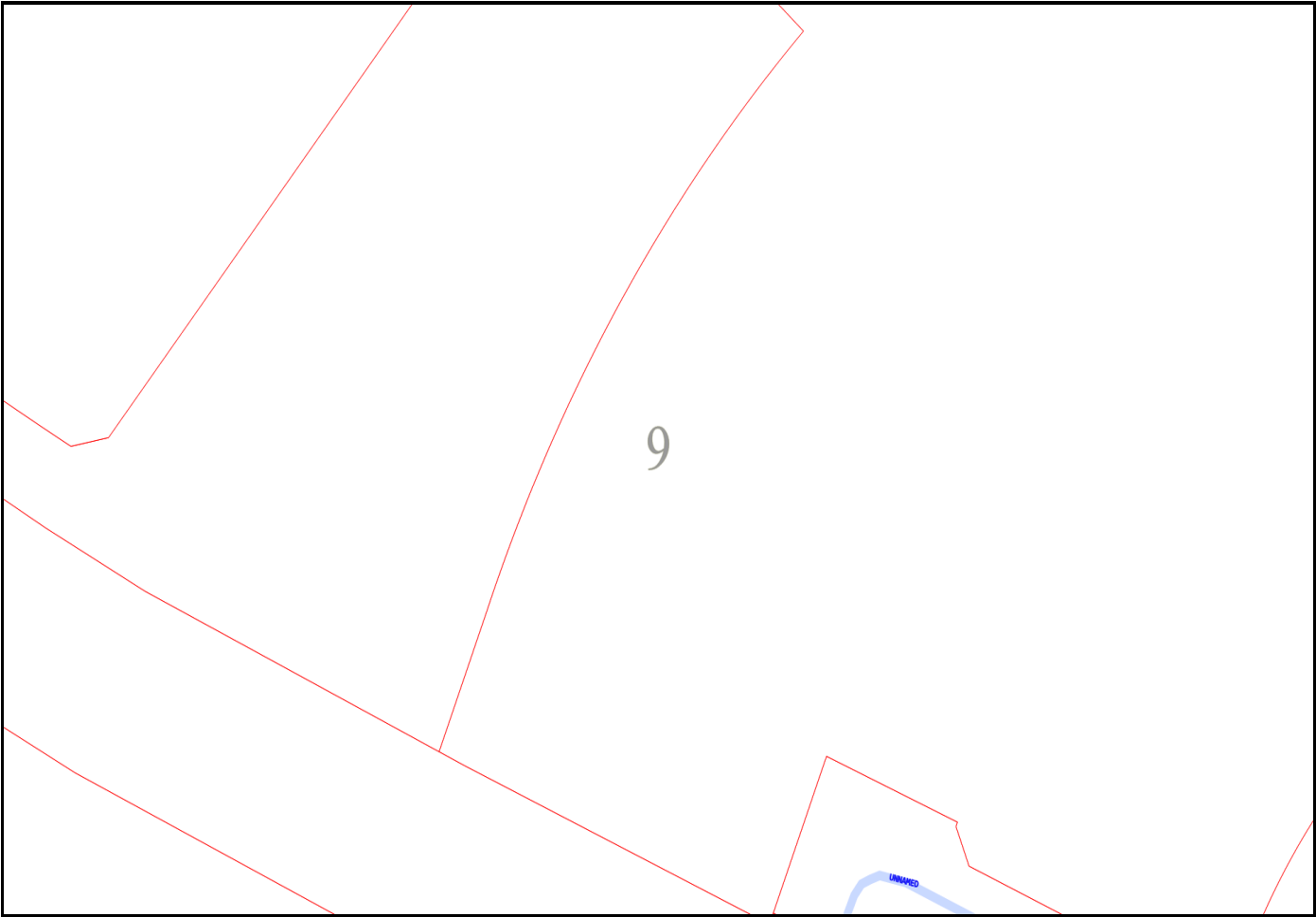


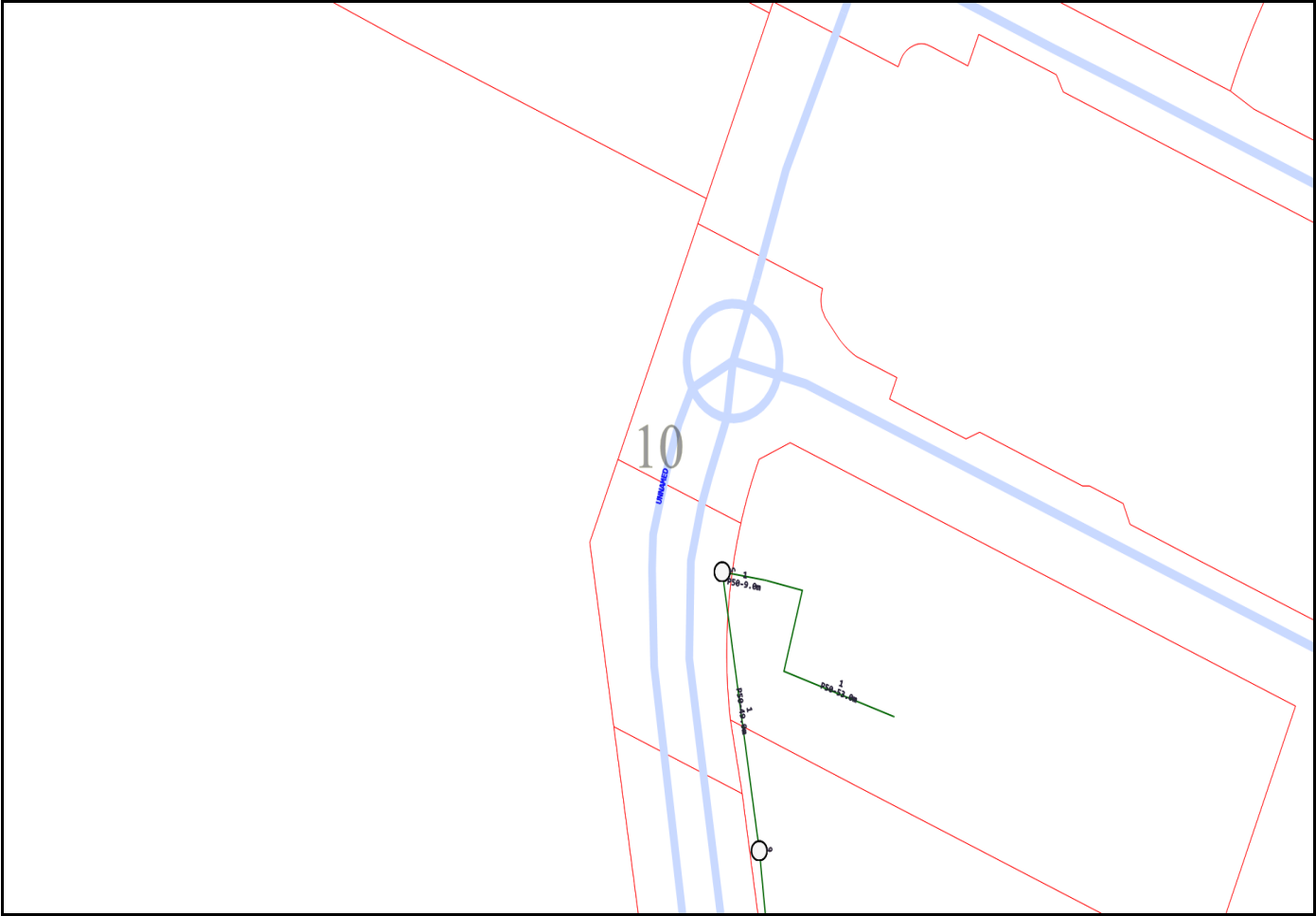
4

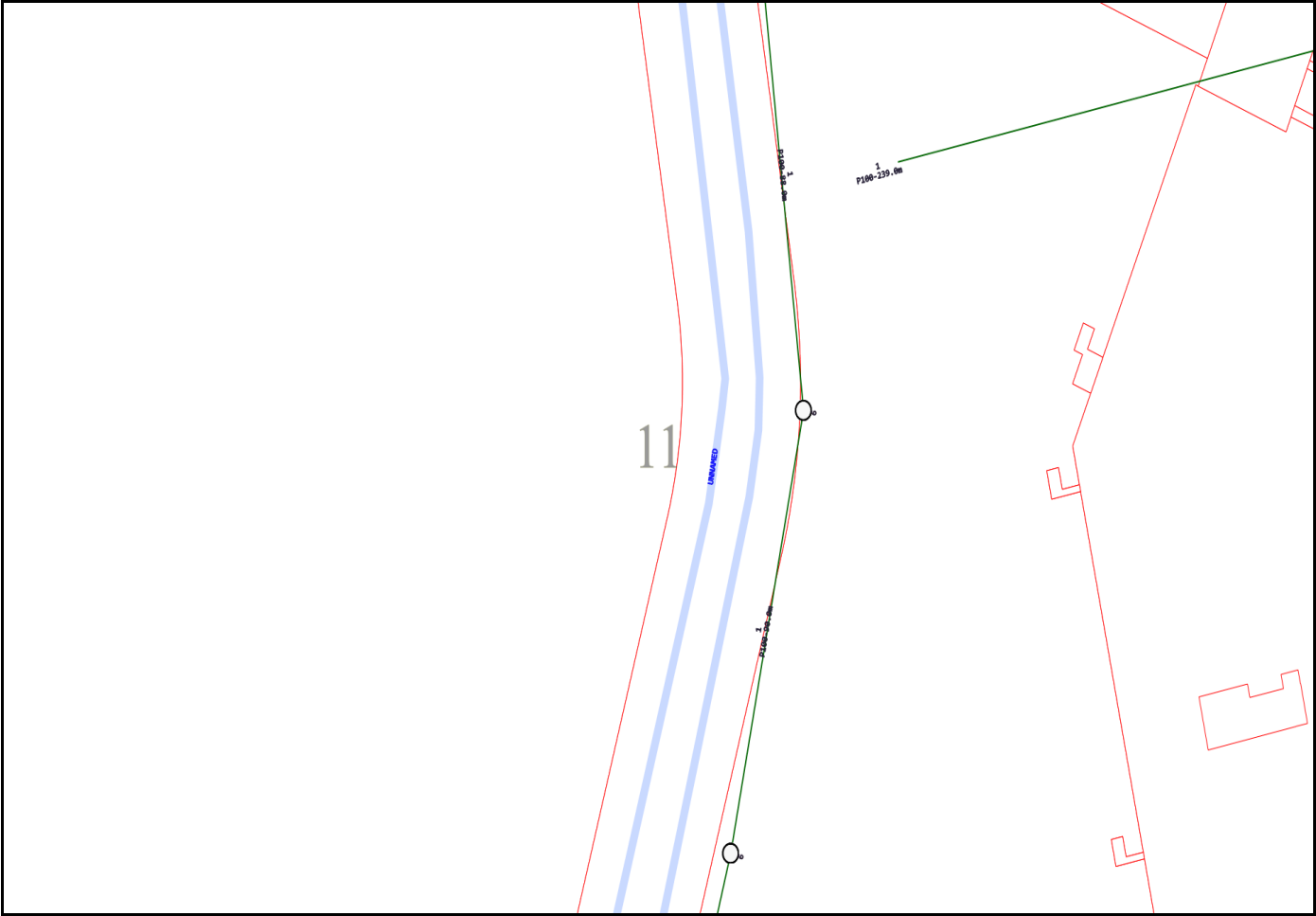


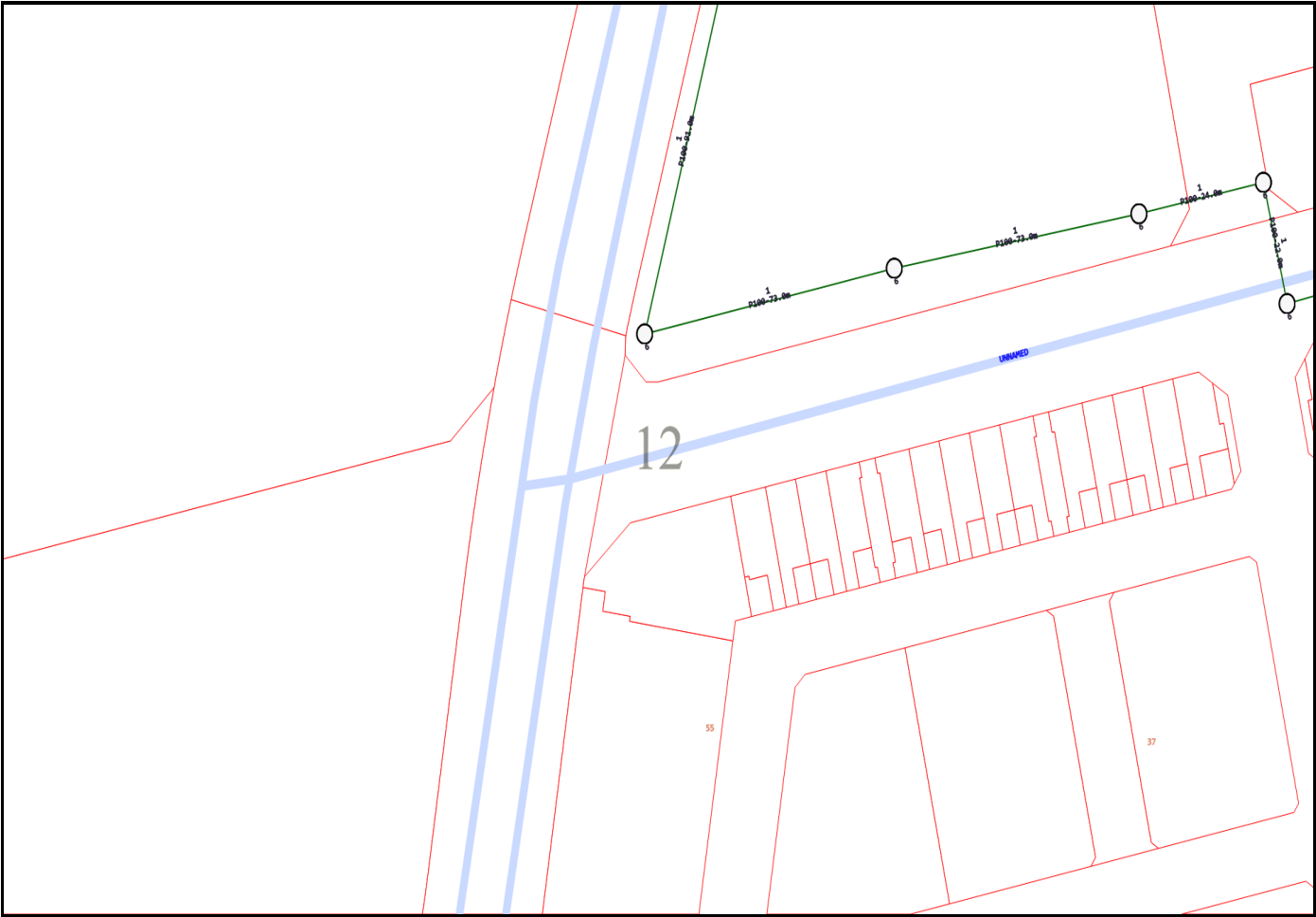


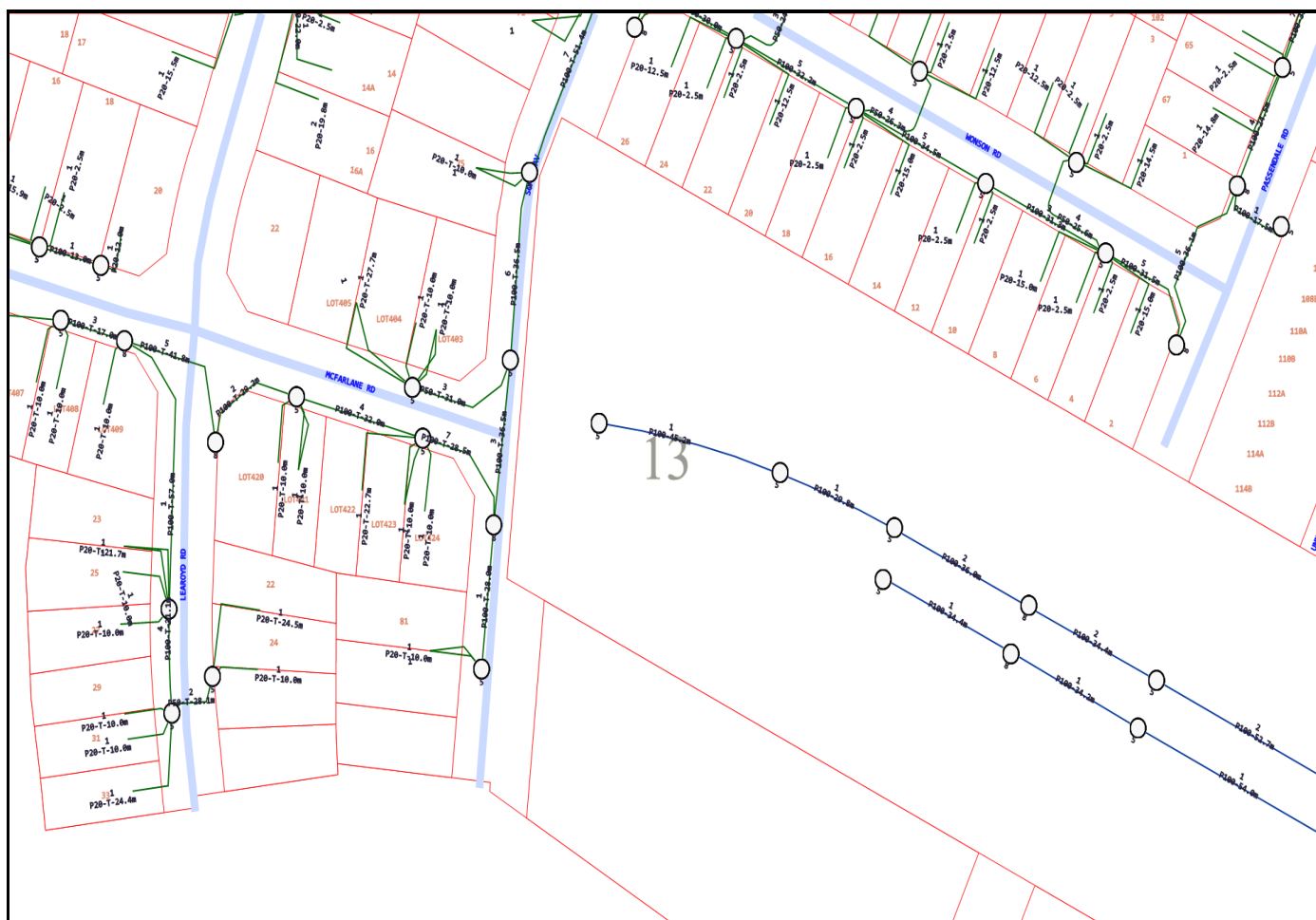


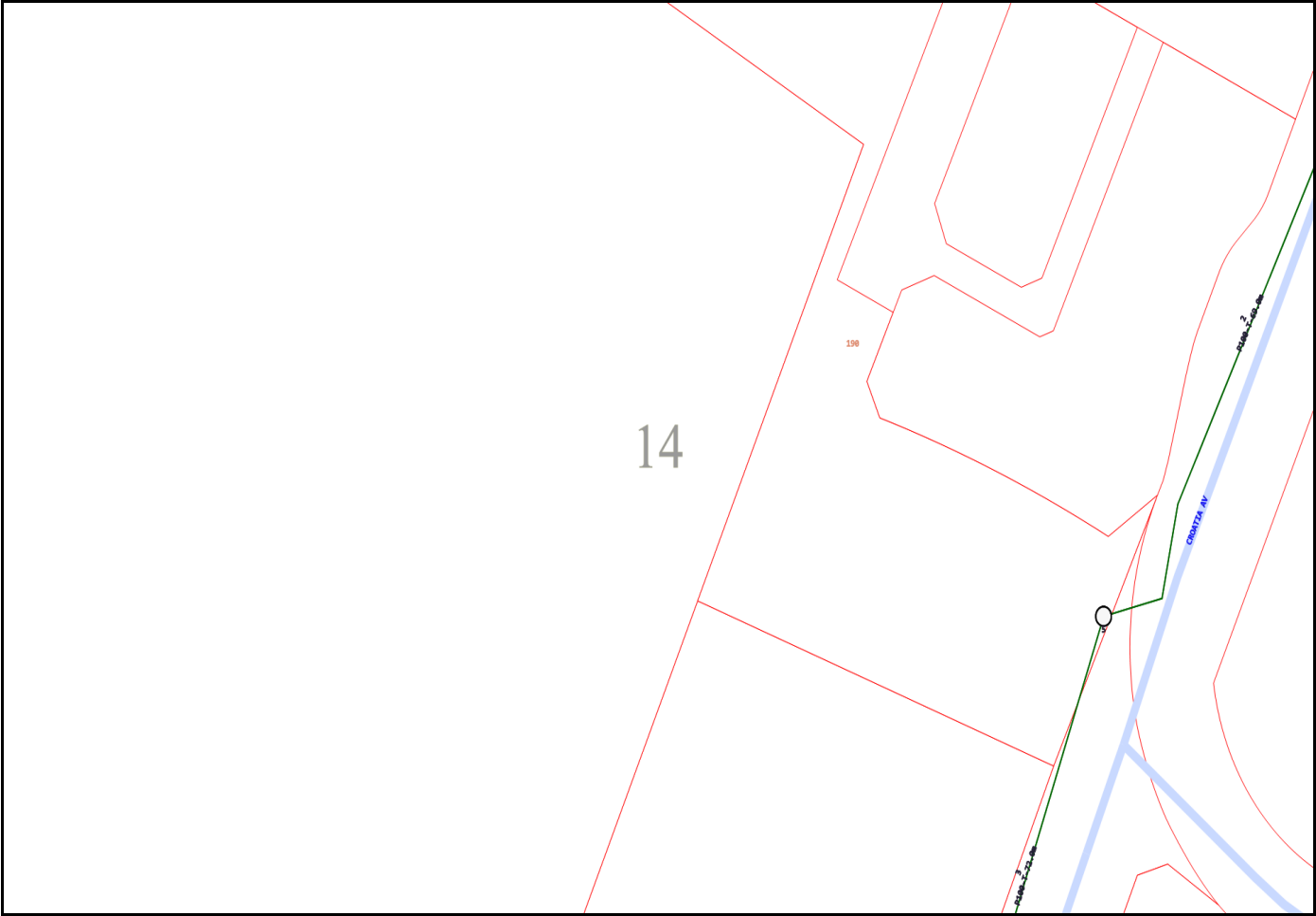


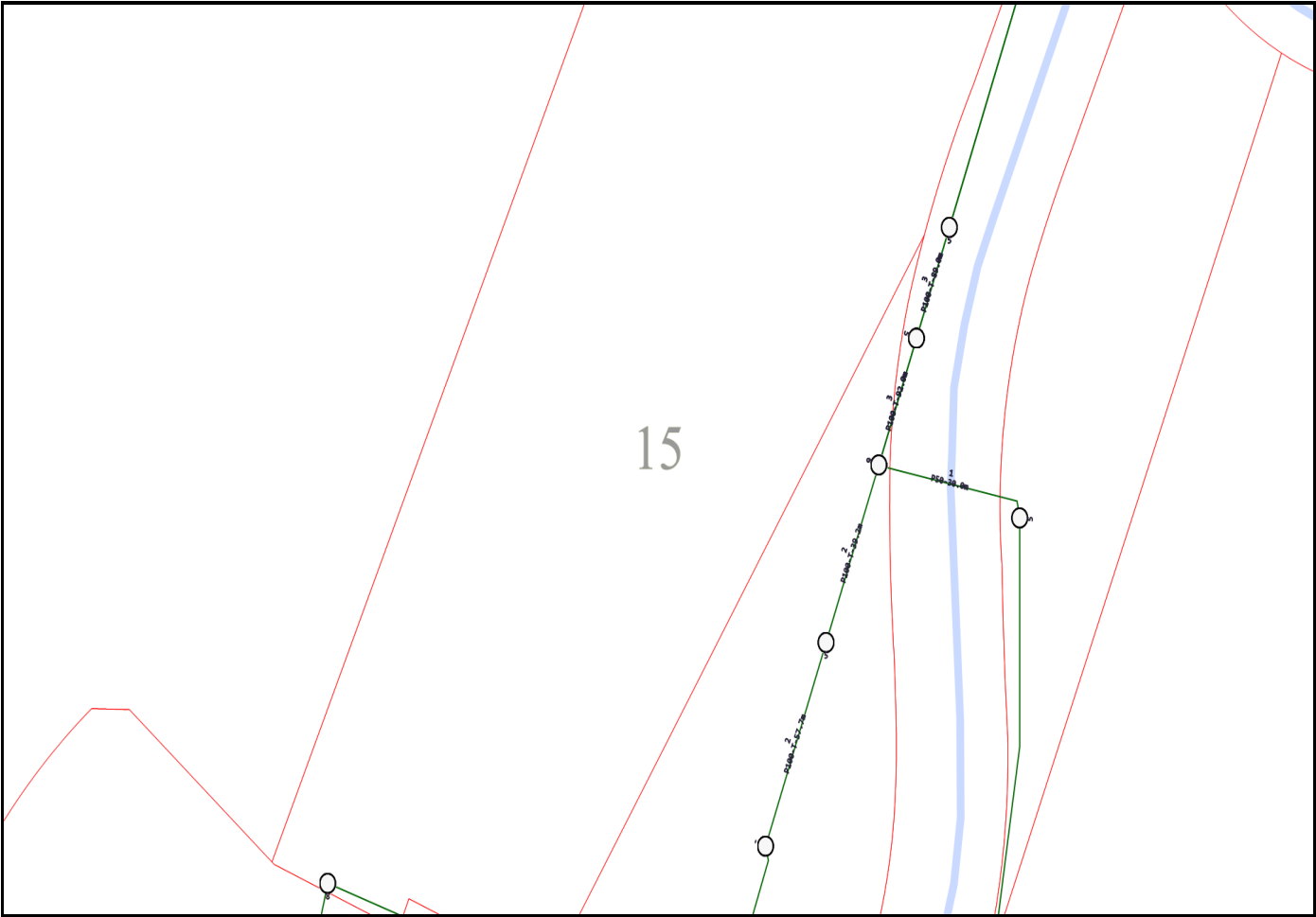


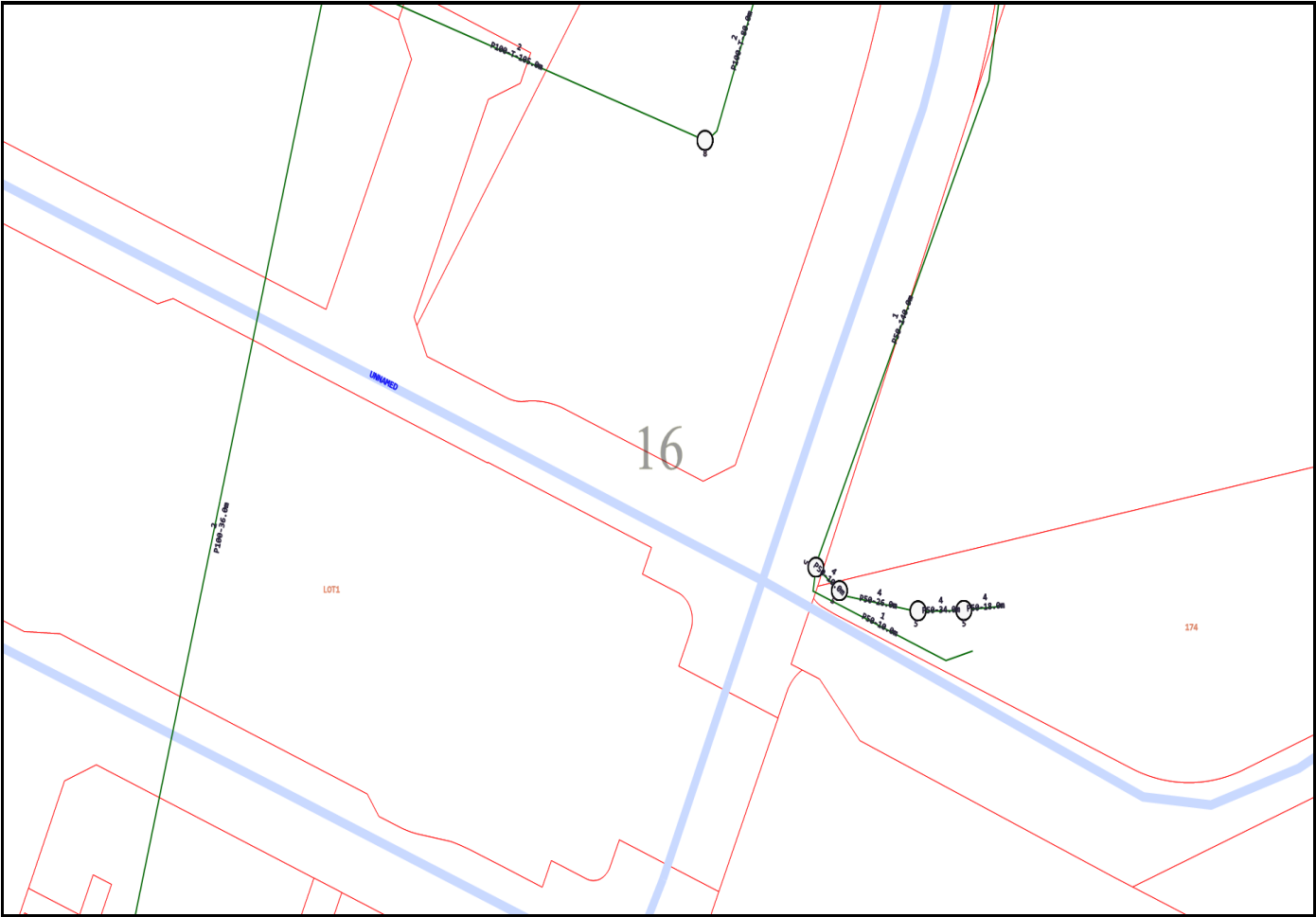


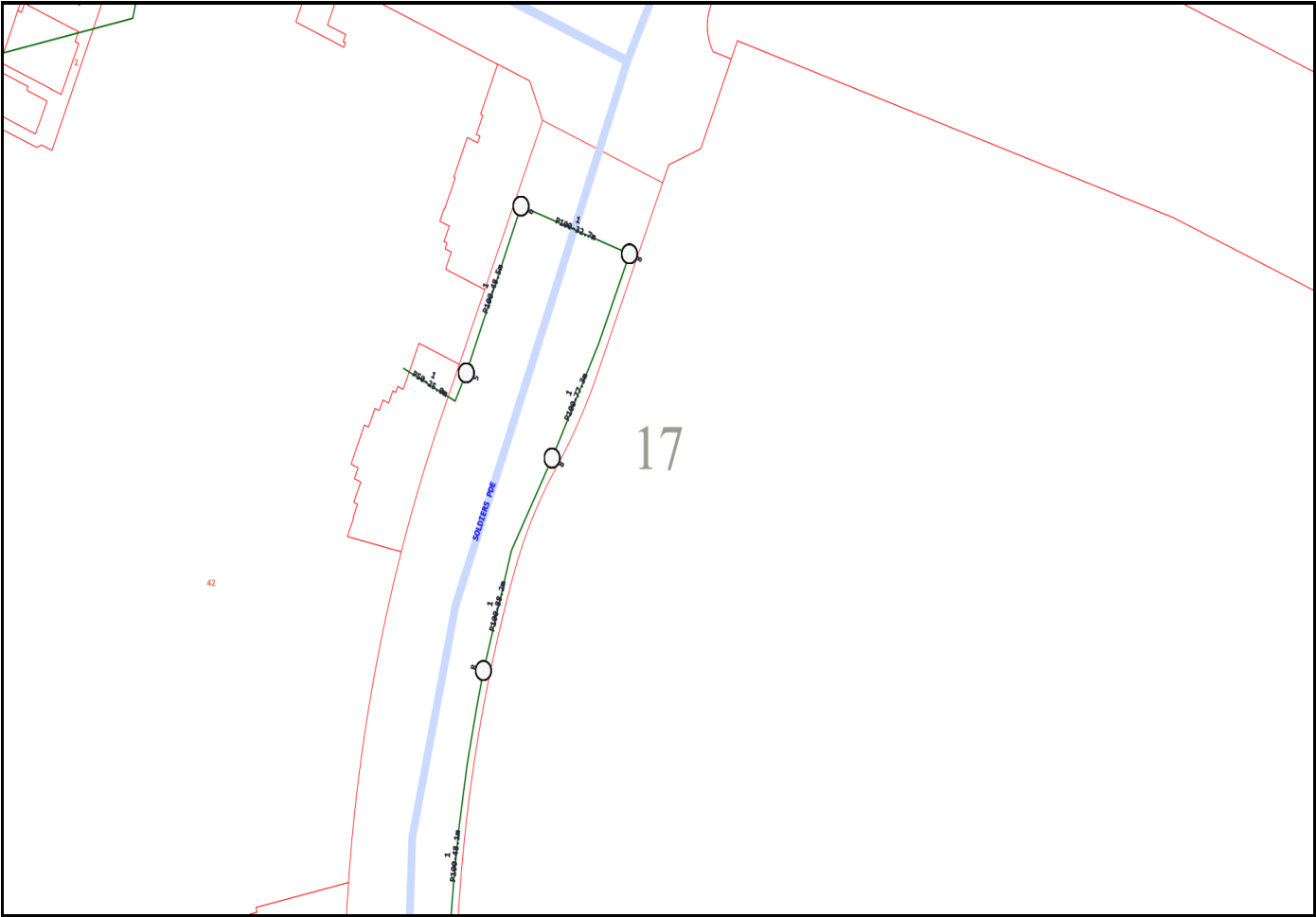


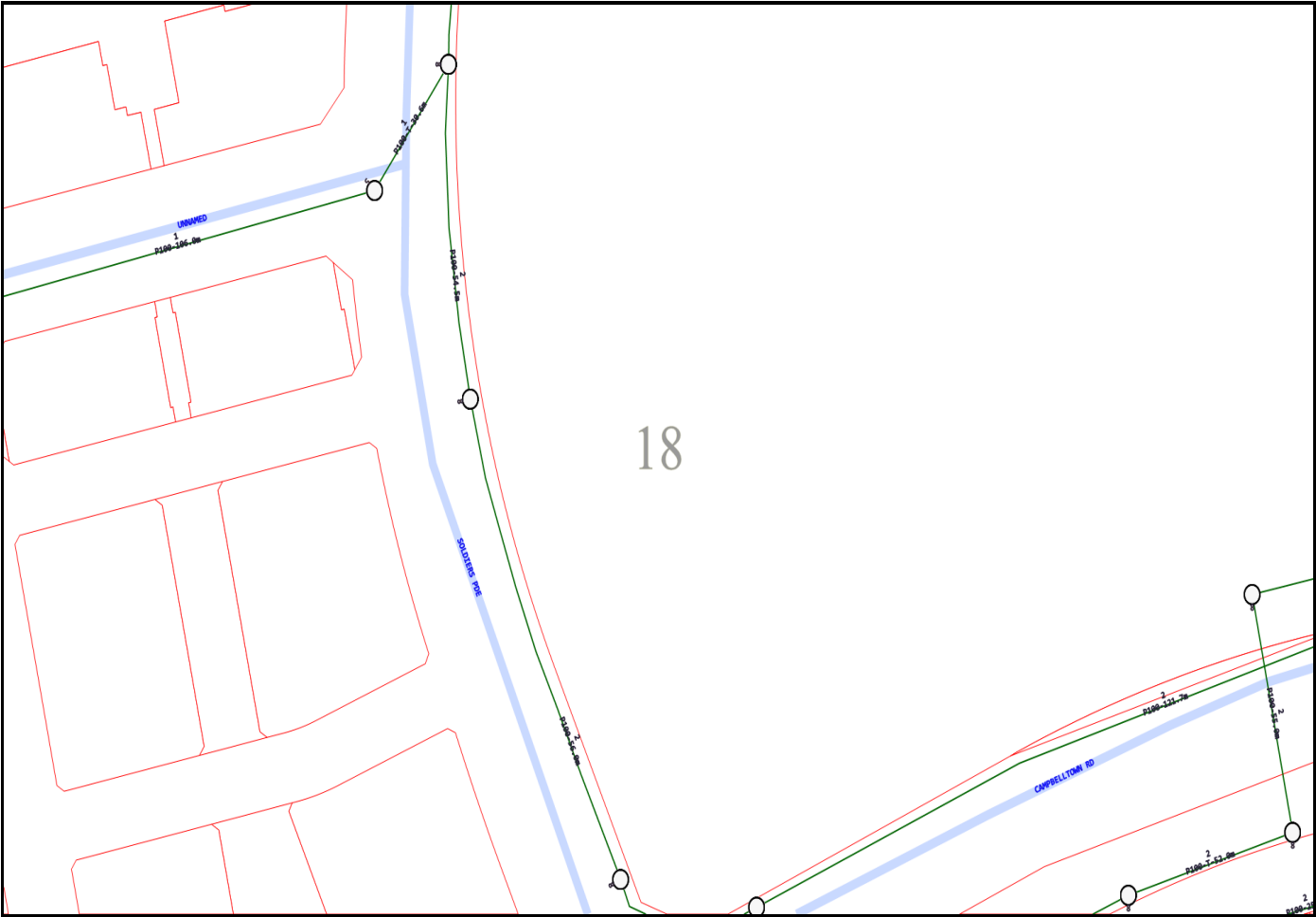


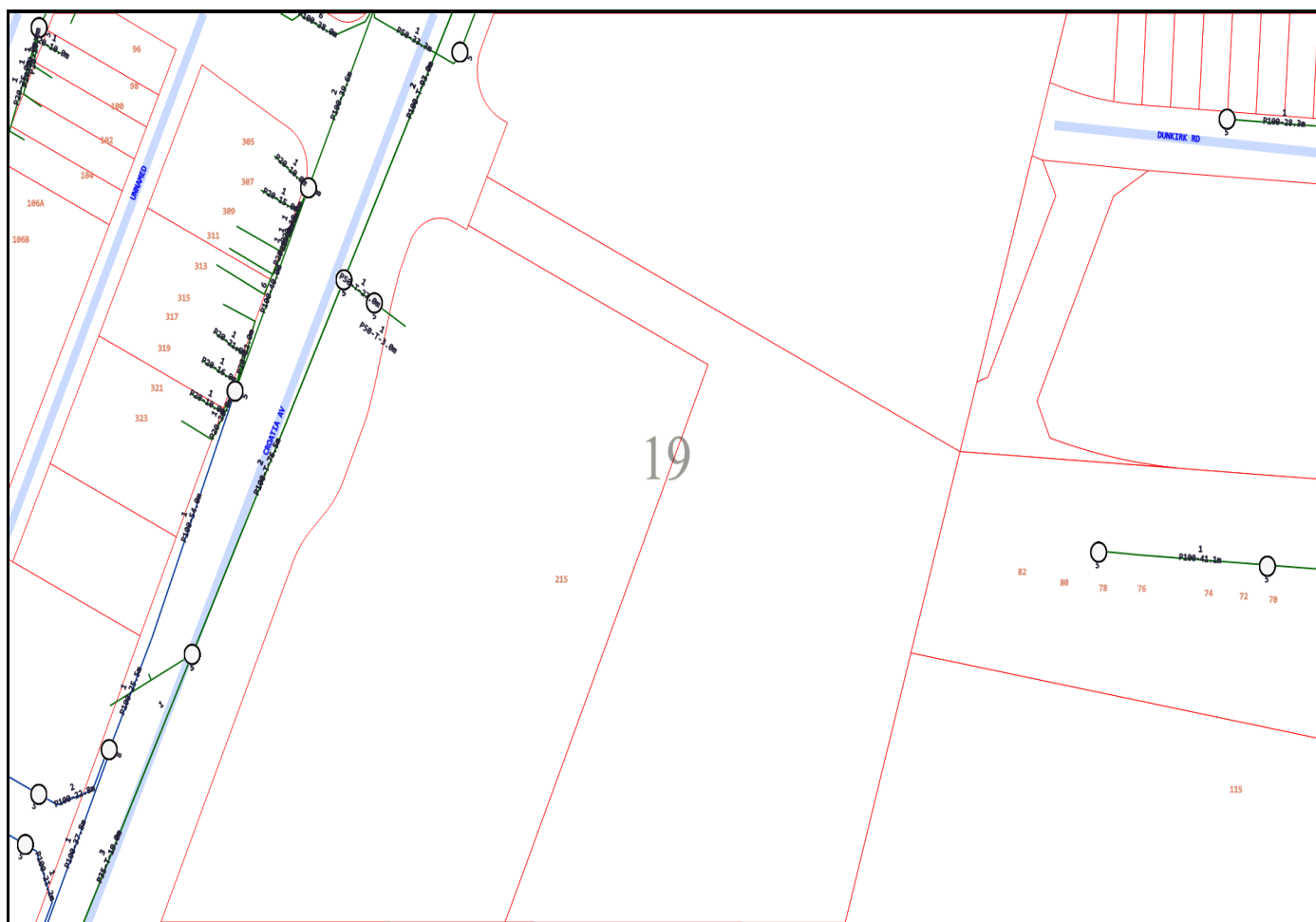


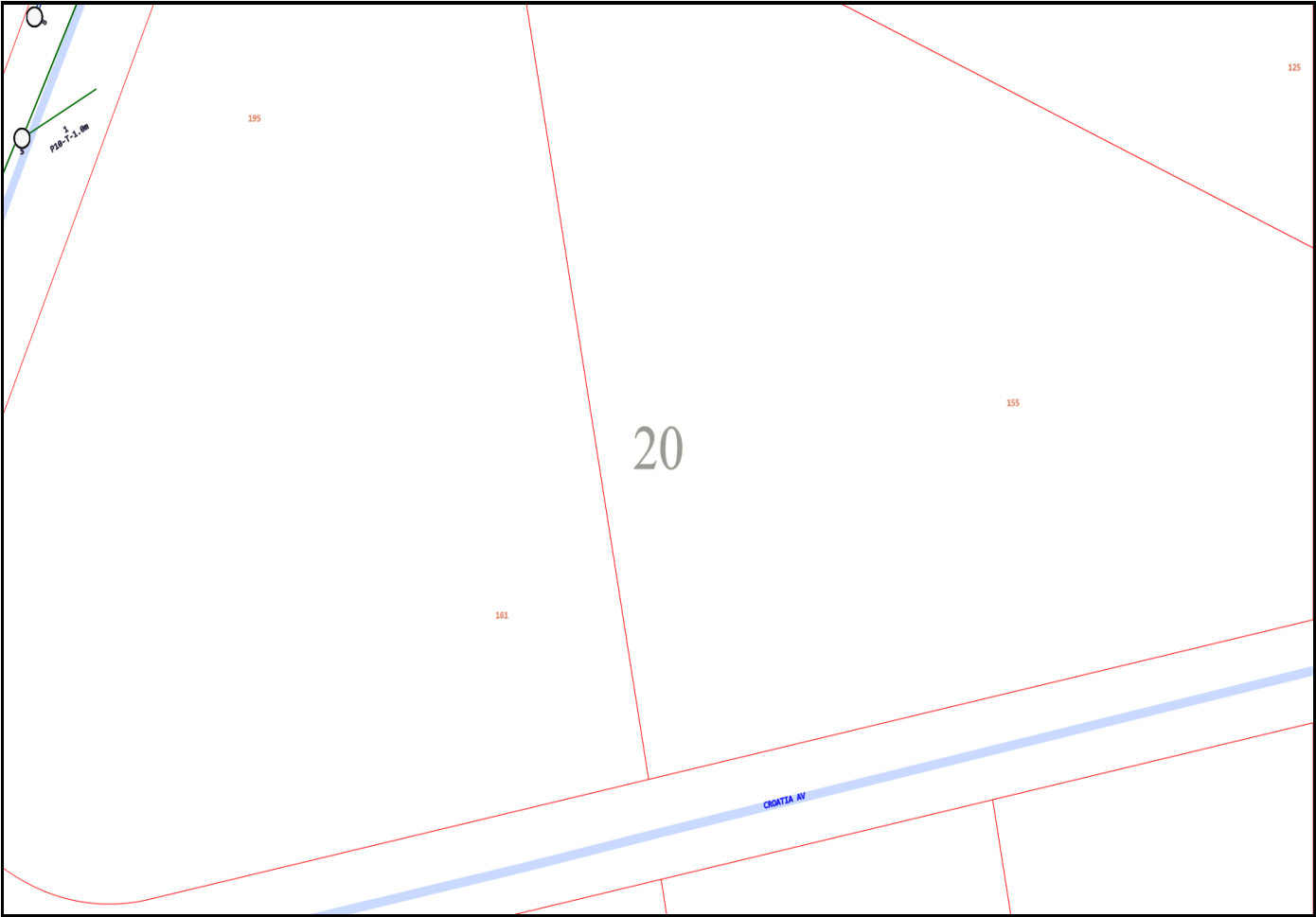


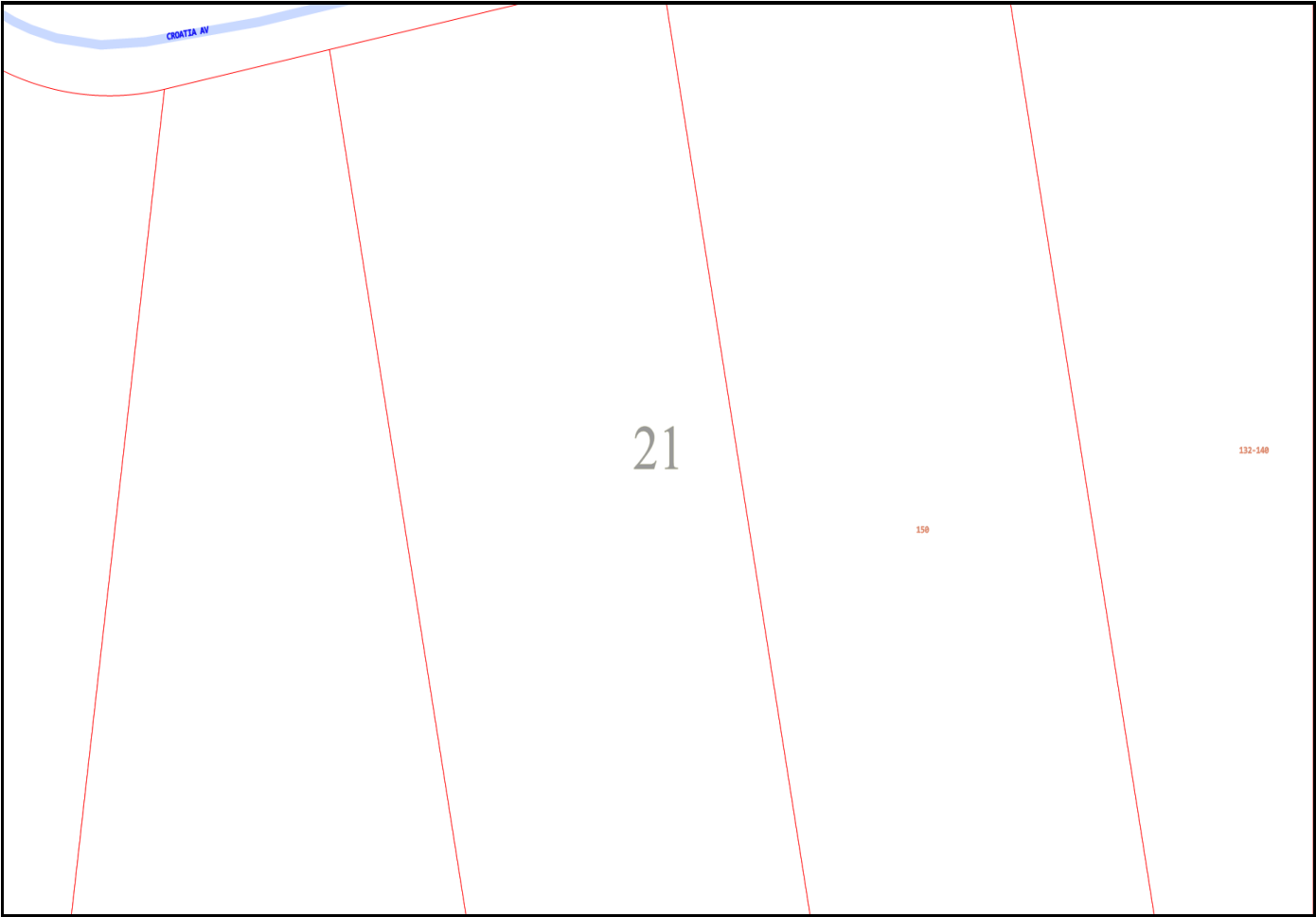


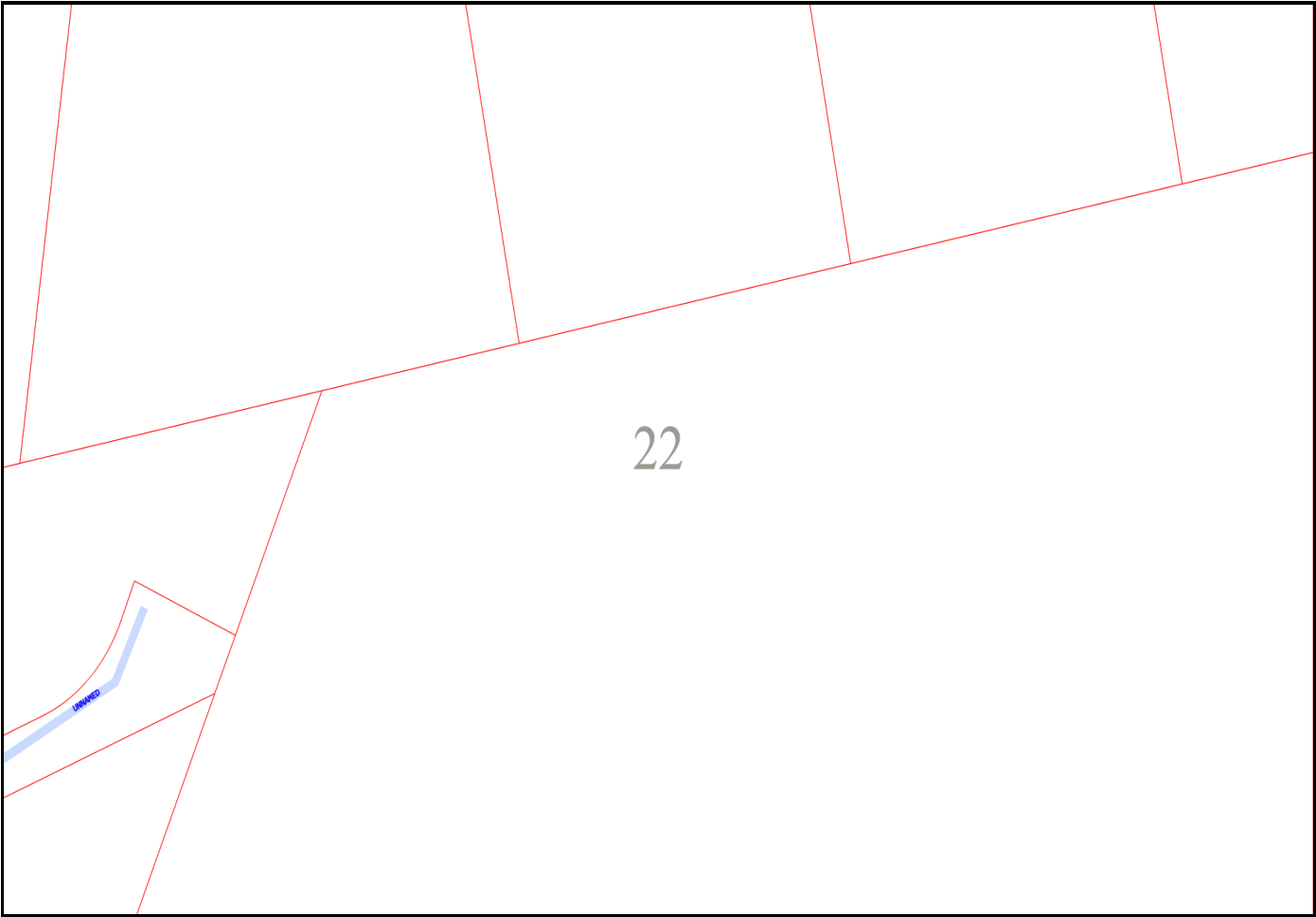


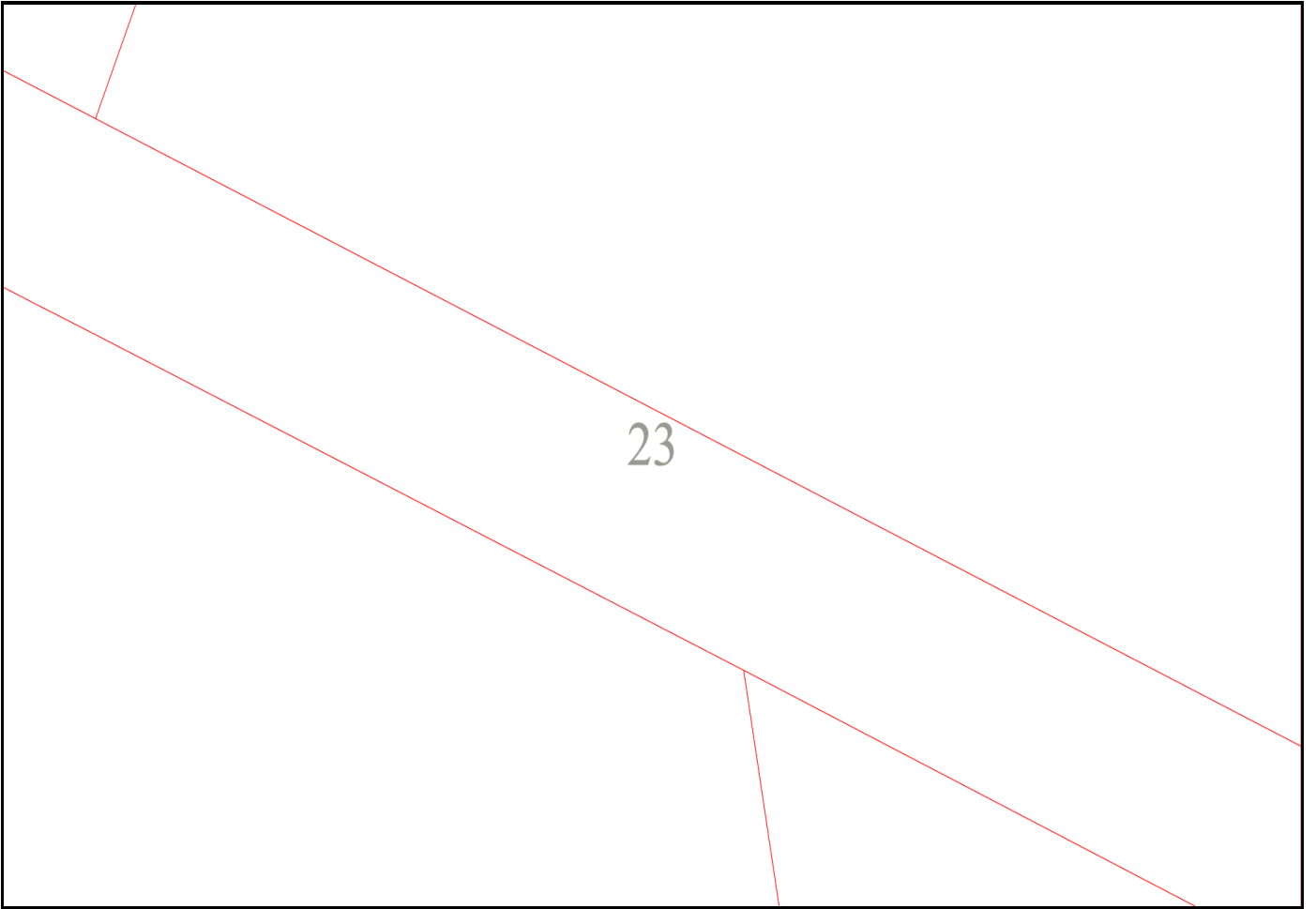


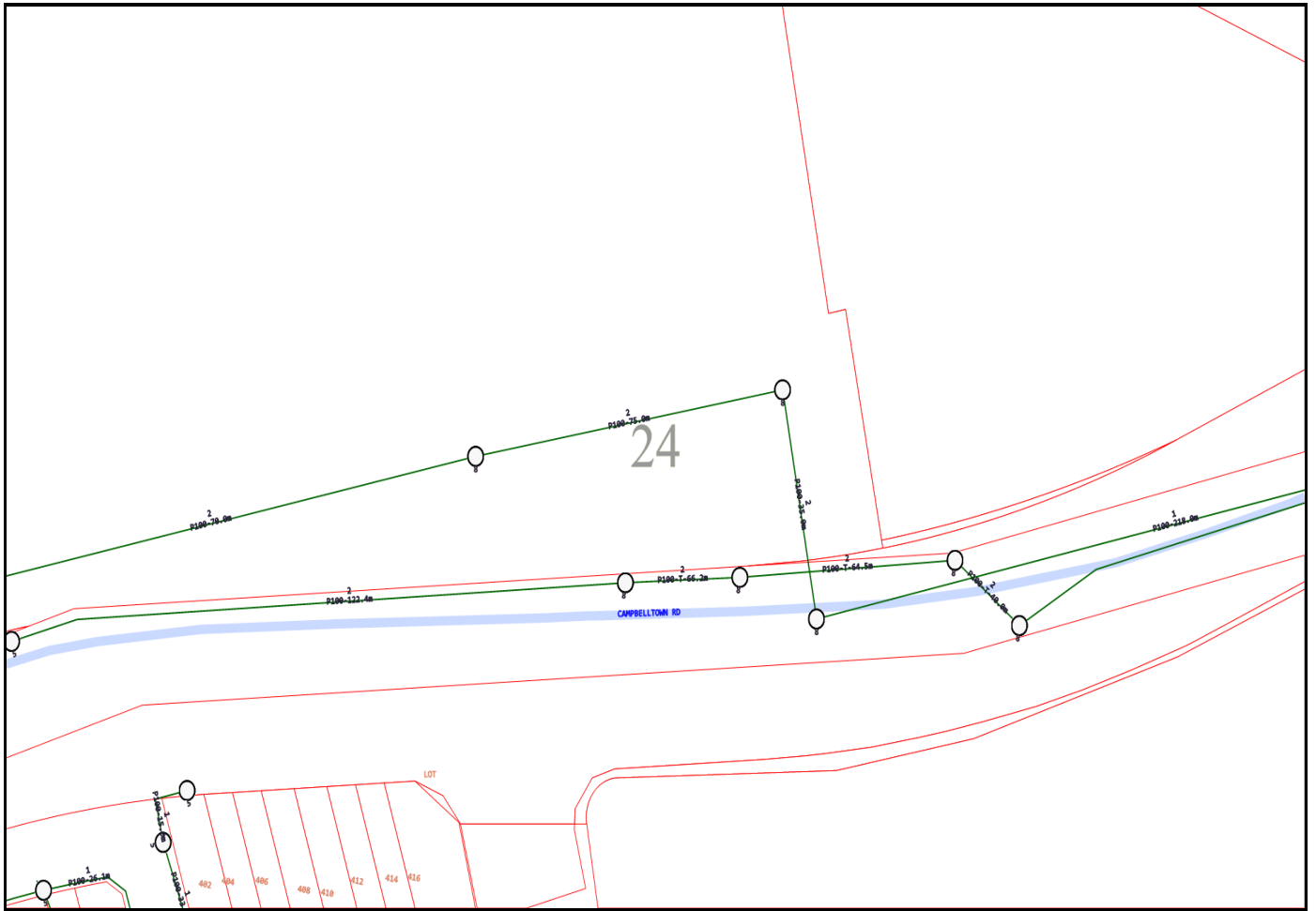












Emergency Contacts

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

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

Before You Dig Australia Job #:	51193194	 BEFORE YOU DIG www.byda.com.au Zero Damage - Zero Harm
Sequence #	261230593	
Issue Date:	16/09/2025	
Location:	180 Croatia Avenue , Edmondson Park , NSW , 2174	

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 BYDA 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 Before You Dig Australia 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 BYDA 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 BYDA

Date: 16/09/2025

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Response Cover Letter

OptiComm
Level 1/22 Salmon Street
Port Melbourne
VIC 3207

Date: 16/09/2025

To:
ADP Consulting
ADP Consulting
Level 3,8 Spring Street
Sydney NSW 2000

Please find attached our response regarding your enquiry (as detailed below). Ensure you review all other documents included with this response to identify any OptiComm assets in the vicinity of your enquiry.

Sequence No: 261230594

Job No: 51193194

Location: 180 Croatia Avenue
Edmondson Park NSW 2174

If you require further information, please contact the OptiComm on 1300 743 462 or DBYD@OptiComm.net.au

Important Notice: This enquiry response, including any associated documentation, has been assessed and compiled from the information detailed within the DBYD enquiry outlined above. Please ensure that the DBYD enquiry details and this response accurately reflect your proposed works.

This response is intended for use only by the addressee. If you have received the enquiry response in error, please let us know by telephone and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.



While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither OptiComm 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. Use of such information is subject to and constitutes acceptance of these terms.

1. Erklären Sie die Bedeutung der folgenden Begriffe:
 a. Wahlrecht: Das Recht eines Bürgers, an einer Wahl teilzunehmen und eine Stimme abzugeben.
 b. Stimmrecht: Das Recht, eine Stimme abzugeben.
 c. Wahlberechtigung: Die Eigenschaft, das Wahlrecht ausüben zu können.
 d. Wahlalter: Das Mindestalter, das ein Bürger erreichen muss, um wählen zu dürfen.
 e. Wahlkreis: Ein geografisches Gebiet, in dem eine bestimmte Anzahl von Wählern lebt, die eine bestimmte Anzahl von Abgeordneten wählen.
 f. Wahlkreisreform: Eine Reform, die die Grenzen der Wahlkreise neu festlegt.
 g. Wahlkreisreformgesetz: Ein Gesetz, das die Regeln für die Wahlkreisreform festlegt.
 h. Wahlkreisreformkommission: Eine Kommission, die die Wahlkreisreform vorbereitet.
 i. Wahlkreisreformprozess: Der Prozess, der zur Wahlkreisreform führt.
 j. Wahlkreisreformdebatte: Eine Debatte über die Wahlkreisreform.
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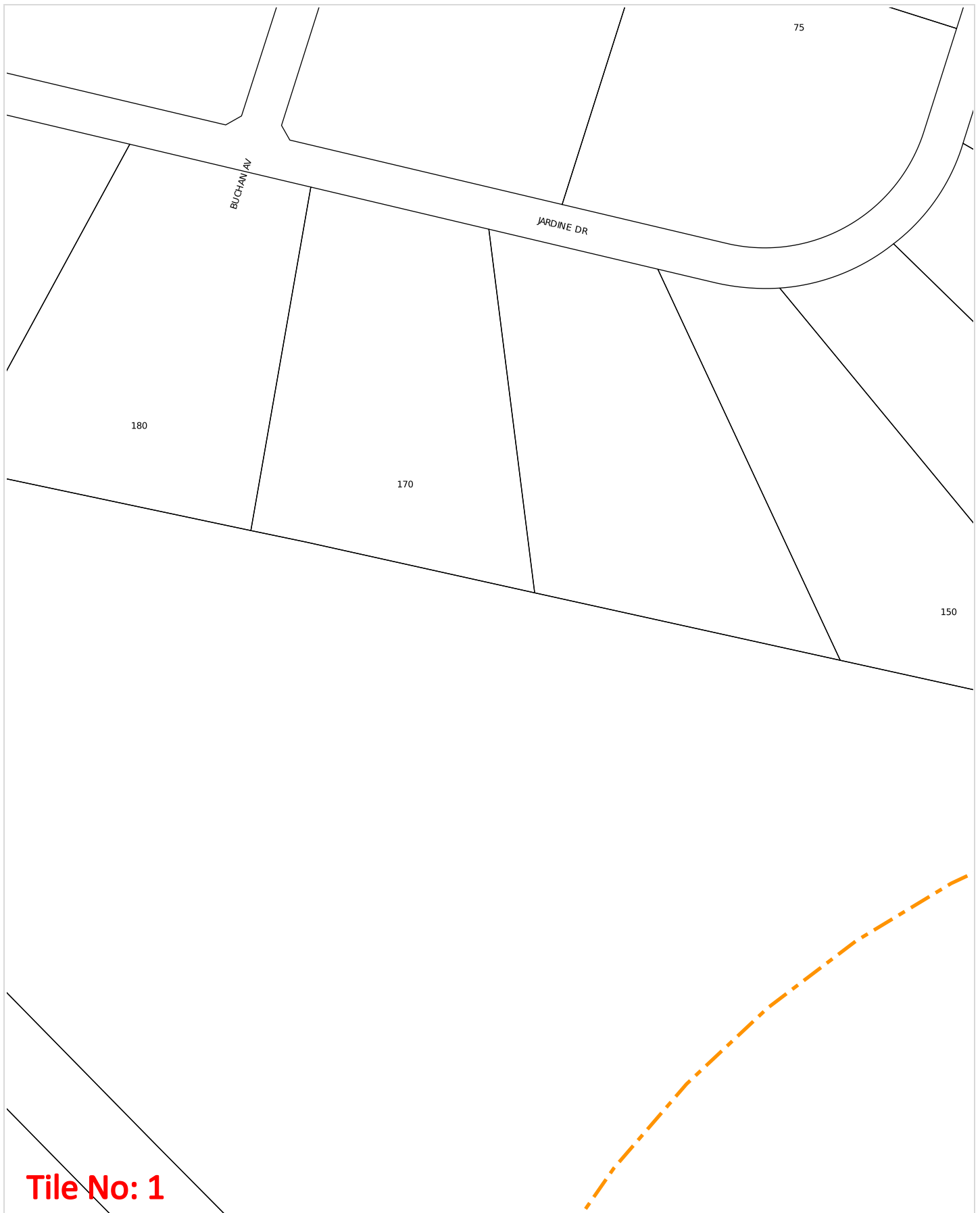
This network is vital to OptiComm's operations. It is therefore critical that no works commence within the area of OptiComm's infrastructure until you have put in place measures to locate and prevent damage to OptiComm's infrastructure. This is particularly important regarding underground infrastructure as you will need to locate the exact position of the infrastructure before commencing work.

water jet excavation where construction may interfere with OptiComm's und

[illegible]

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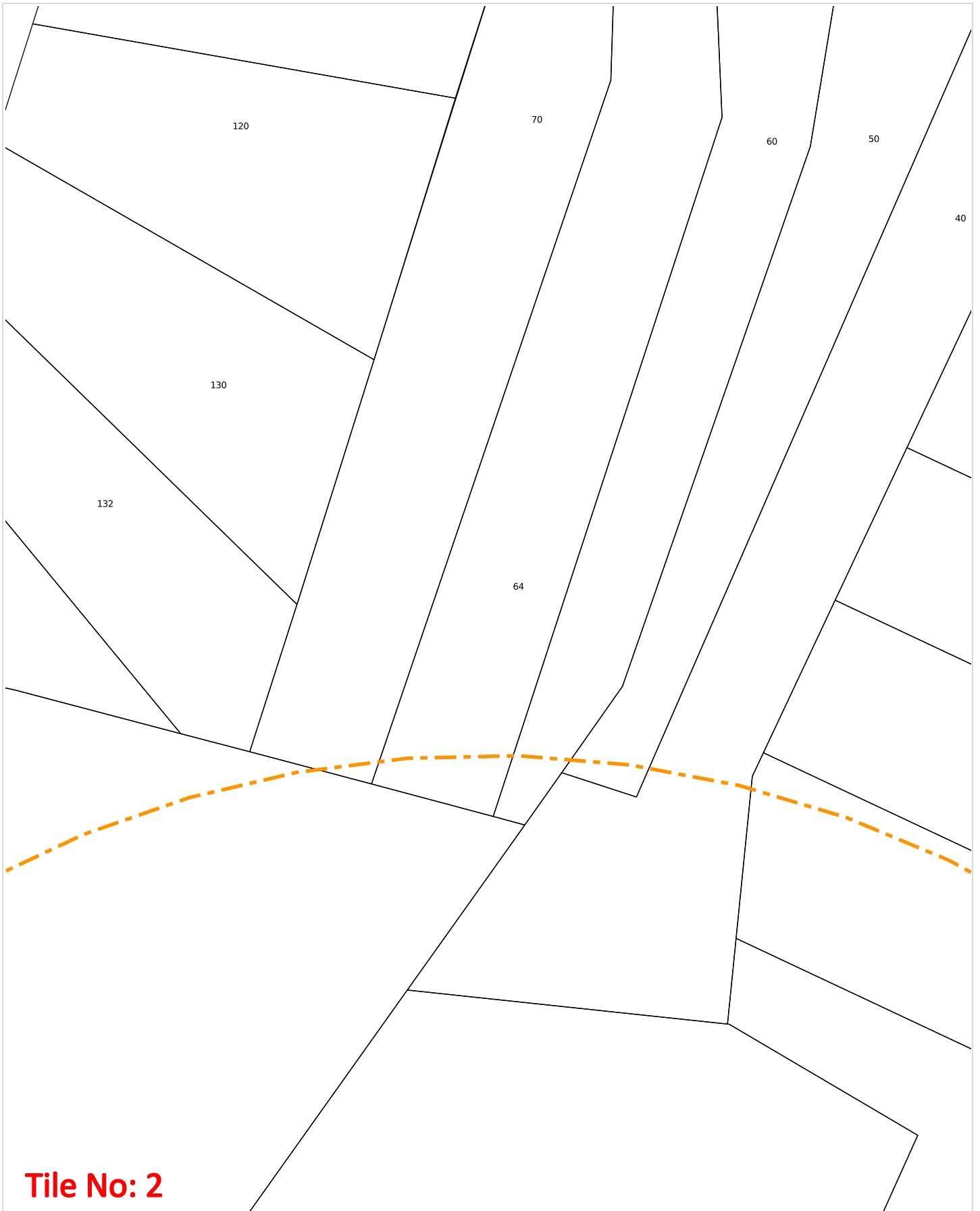
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For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208





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OPTUS yes
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Tile No: 4

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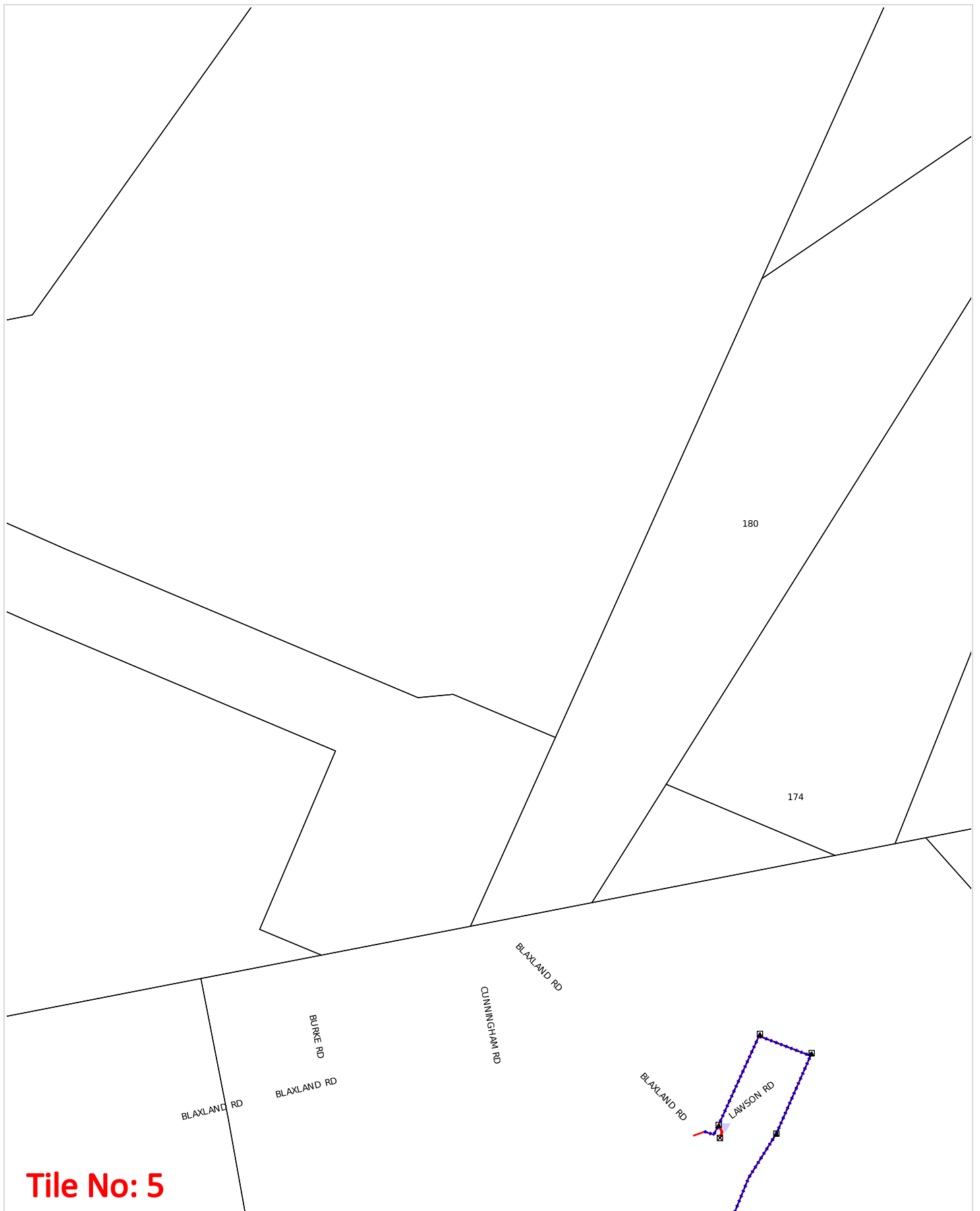
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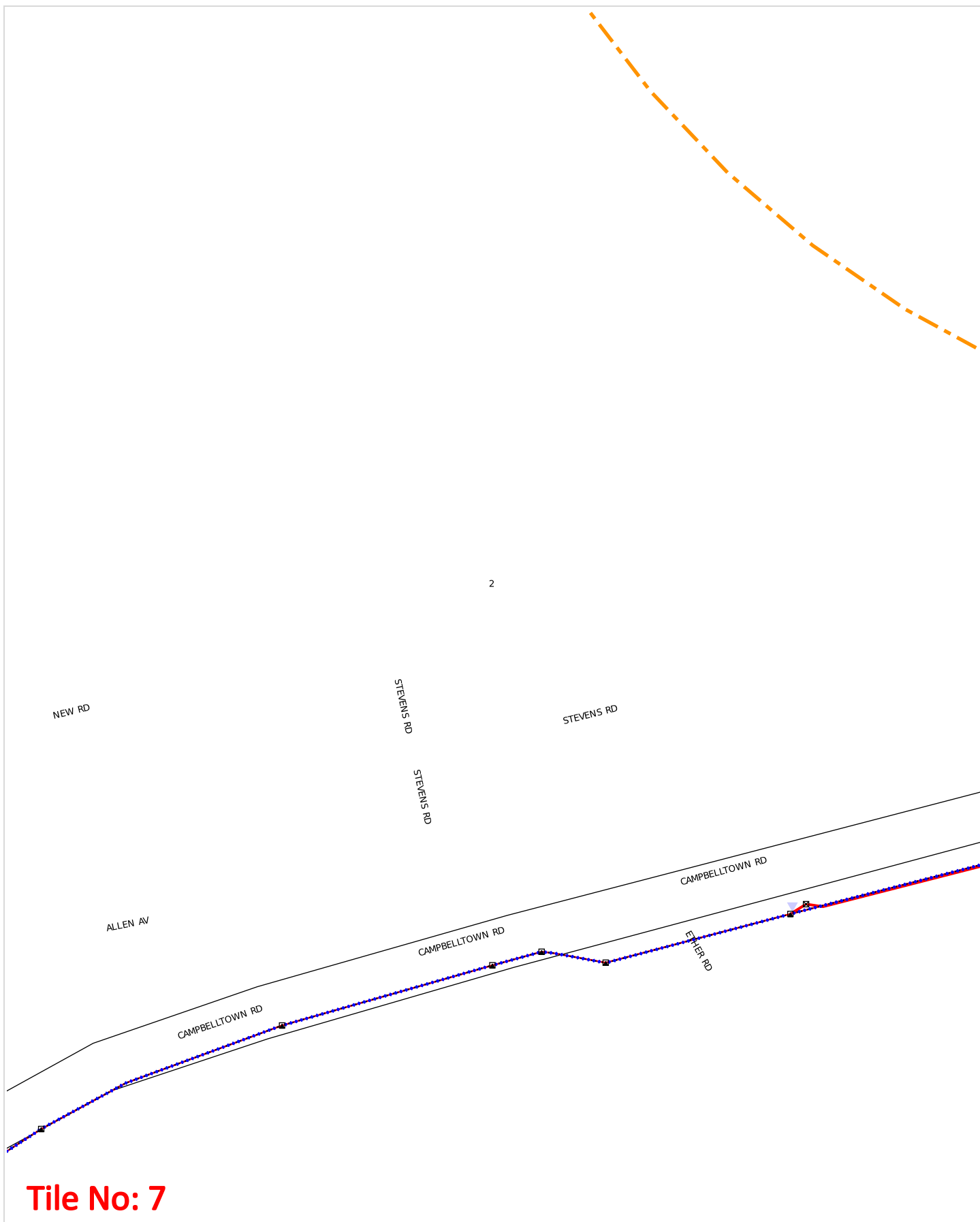
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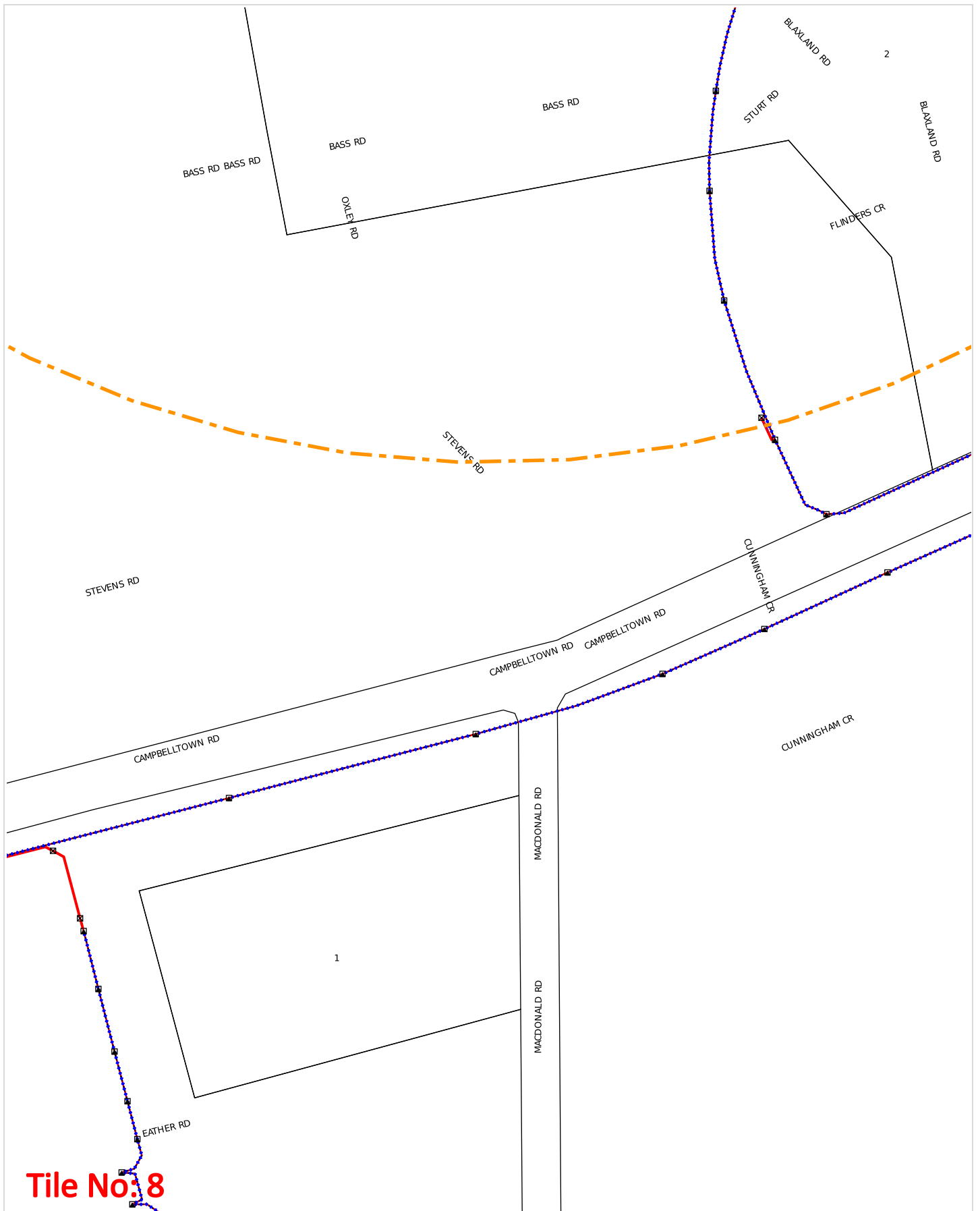
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Date: 16 Sep 2025
To: ADP Consulting
Company: ADP Consulting
Address: Level 3,8 Spring Street
Sydney, NSW 2000

ENQUIRY DETAILS

Location: 180 Croatia Avenue, Edmondson Park, NSW 2174
Sequence No.: 261230599
BYDA Reference: 51193194

In relation to your enquiry concerning the above location, Optus advises as follows:

Optus records indicate that there ARE underground Optus FIBRE OPTIC TELECOMMUNICATIONS ASSETS in the vicinity of the above location as per the attached drawing(s).

PLEASE NOTE that any interference with these assets may be considered an offence under the Criminal Code Act 1995 (Cth). Optus reserves the right to seek compensation for loss or damage to its assets including consequential loss.

This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION

Asset location drawings provided by Optus are reference diagrams and are provided as a guide only. The completeness of the information in these drawings cannot be guaranteed. Exact ground cover and alignments cannot be provided with any certainty as these may have altered over time. Depths of telecommunications assets vary considerably as do alignments. It is essential to identify the location of any Optus assets in the vicinity prior to engaging in any works.

All Optus assets in the vicinity of any planned works will need to be electronically located to ascertain their general location. Depending on the scope of planned works in the vicinity, the assets may also need to be physically located.

YOU MUST ENGAGE THE SERVICES OF ONE OF THE OPTUS ASSET ACCREDITED LOCATORS TO CARRY OUT ASSET LOCATION (REFER LIST OF ACCREDITED LOCATORS AT THE END OF THIS OPTUS RESPONSE).

Unless otherwise agreed with Optus, where an on-site asset location is required, the requestor is responsible for all costs associated with the locating service including (where required) physically exposing the Optus asset.

DUTY OF CARE

When working in the vicinity of telecommunications assets you have a legal "Duty of Care" and non-interference that must be observed.

It is your responsibility as the requesting party (as a landowner or any other party involved in the planned works) to design for minimal impact to any existing Optus asset. Optus can assist at the design stage through consultation.

It is also your, as the requesting party (or your representative's), responsibility to:

- Obtain location drawings (through the Before You Dig Australia process) of any existing Optus assets at a reasonable time before any planned works begin;
- Have an Optus Accredited Asset Locator identify the general location of the Optus asset and physically locate the asset where planned works may encroach on its alignment; and
- Contact Optus for further advice where requested to do so by this letter.

DAMAGE TO ANY OPTUS ASSET MUST BE REPORTED TO 1800 505 777 IMMEDIATELY

You, your head contractor, and any relevant subcontractor are all responsible for any Optus asset damage as a result of planned activities in the vicinity of Optus assets.

This applies where works commence prior to obtaining Optus drawings, where there is failure to follow instructions or during any construction activities.

Optus reserves the right to recover compensation for loss or damage to its assets including consequential loss. Also, you, your head contractor and any relevant subcontractor may also be liable for prosecution under the Criminal Code Act 1995 (Cth).

ASSET RELOCATIONS

You are not permitted by law to relocate, alter or interfere with any Optus asset under any circumstance. Any unauthorised interference with an Optus asset may lead to prosecution under the Criminal Code Act 1995 (Cth). Enquiries relating to the relocation of Optus assets must be referred to the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

APPROACH DISTANCES

On receipt of Optus asset location drawings and prior to commencing any planned works near an Optus asset, engage an Optus Accredited Locator to undertake a general location of the Optus asset.

Physical location of the Optus asset by an Optus Accredited Locator will also be required where planned works are within the following approach distances of the general location of the Optus asset:

- In built up metropolitan areas where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1 meter must be maintained from the general location of the Optus asset.
- In non-established or unformed metropolitan areas, a minimum clear distance of 3 meters must be maintained from the general location of the Optus asset.
- In country or rural areas where wider variations may exist between the general and actual location of an Optus asset may exist, then a minimum clear distance of 5 meters must be maintained from the general location of the Optus asset.

If planned works are parallel to the Optus asset, then the Optus asset must be physically located by an Optus Accredited Locator at a minimum of 5 meter intervals along the length of the parallel works prior to work commencing.

Under no circumstances is crossing of any Optus asset permitted without physical location of the asset being carried out by an Optus Accredited Locator. Depending on the asset involved an Optus representative may be required onsite.

The minimum clearances to the physical location of Optus assets for the following specific types of works must be maintained at all times.

Note: Where the clearances in the following table cannot be maintained or where the type of work differs from those listed then advice must be sought from the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

Type of Works	Clearance to Physical Location of Optus Asset
Jackhammers / Pneumatic Breakers	Not within 1 meter.
Light duty Vibrating Plate or Wacker Packer type compactors (not heavy road construction vibrating rollers etc.)	500mm compact clearance cover before a light duty compactor can be used over any Optus conduit. No compaction permitted over Optus direct buried cable without prior approval from Optus.
Boring Equipment (in-line, horizontal and vertical)	Not within 5 meters parallel of the Optus asset location without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. Not to cross the Optus asset without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite.

Type of Works	Clearance to Physical Location of Optus Asset
Heavy vehicle Traffic (over 3 tonnes)	Not to be driven across Optus conduits with less than 600mm of cover. Not to be driven across Optus direct buried cable with less than 1.2 meters of cover. Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval. Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.
Mechanical Excavators, Farm Ploughing, Vertical Hole installation for water bore or fencing etc.	Not within 1 meter. Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.

ASSET CLEARANCES AFTER COMPLETION OF WORKS

All Optus pits and manholes must be a minimum of 1 meter from the back of any kerb, 3.5 meters of the road surface without a kerb or not within 15 meters of street intersection.

In urban areas Optus conduit must have the following minimum depth of cover:

- Footway 600mm;
- Roadway 1 meter at drain invert and at road centre crown.

In rural areas Optus conduit must have a minimum depth of cover of 1 meter and direct buried cable 1.2 meters.

In cases where it is considered that the above clearances cannot be maintained at the completion of works, advice must be sought from the relevant Optus Damages and Relocations Team (refer "Further Assistance").

FURTHER ASSISTANCE

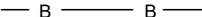
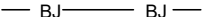
Further assistance on asset clearances, protection works, or relocation requirements can be obtained by contacting the relevant Optus Damages and Relocations Team on the following email address:

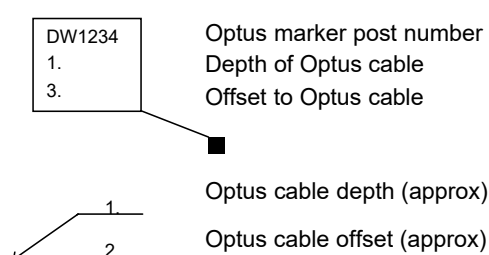
NFODamages&RelocationsDropbox@optus.com.au

Further assistance relating to asset location drawings etc. can be obtained by contacting the Optus Network Operations Asset Analysis Team on 1800 505 777.

OPTUS ENGINEERING DRAWING SYMBOLS

	Optus underground cable		Optus manhole/pit
	Optus underground IOF cable		Other Utility manhole/pit
	Optus conduit		Optus marker post
 OR 	Optus cable in Other Utility conduit		Railway / Tram line
	Southern Cross conduit		Highway / Major Road
	Indigo conduit		Arterial Road
	Uecomm conduit		Council Road - minor
	Optus aerial fibre cable		

	Optus underground cable
	Optus cable buried jointly with third party utility
	Optus cable in conduit with subducts





Optus Accredited Asset Locators

Name	Company Name	Phone	Email	State	Region/Service Area
Drew Misko	Australian Subsurface Pty Ltd	0427 879 600	admin@australiansubsurface.com	ALL	ALL
Andrew Watson	Subsurface Mapping Solutions Pty Ltd	0408 839 723	admin@subsurfacems.com.au	ALL (Not TAS)	South East QLD + Aus wide
Chris Gordon	Heavy Construction Solutions	1300 859 027	chris.gordon@heavycs.com.au	VIC,NSW,QLD,SA TAS	All
Alan Cordner	Alcom Fibre Services Pty Ltd	0400 300 337	alcomfibre@bigpond.com	NSW	Sydney, NSW
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Protecting survey marks

Information Sheet

May 2023

What are survey marks?

Survey marks support billions of dollars of investment, property rights and infrastructure. There are many types of survey marks used for various purposes.

Survey marks – what to look for



Paint

Yellow or white paint on the mark, or surrounding features.



Identification plates

Identification plates in rural areas help to locate permanent survey marks.



Star picket

Painted star pickets in rural areas may indicate a survey mark in the vicinity.



Reference Tree

A blazed tree may indicate a permanent mark or a cadastral boundary corner is located near by. It is most common in rural areas.



Alignment marks

Alignment stones, posts, pins and old stone kerbs are important cadastral marks.

Types of survey marks

Permanent survey marks

Permanent survey marks are fundamental marks that define location for surveying, mapping and engineering projects. Uses include housing developments, new road and bridge construction, improving railways and environmental mapping.



Trig Station



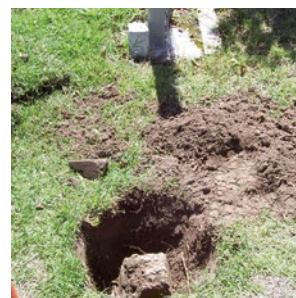
Permanent Mark



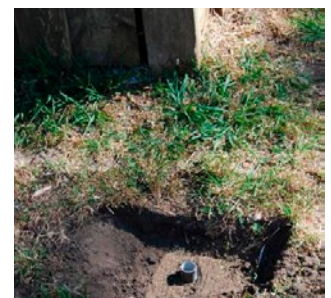
State Survey Mark

Cadastral (Boundary) Marks

Cadastral marks are used to mark property corners. Cadastral Reference marks also define property boundaries and are buried approx 100-200mm deep, or placed in the footpath, kerb or gutter.



Concrete Block references boundary corner (peg)



Galvanised Iron Pipe references boundary corner



Drill Hole & Wing in Kerb references adjacent boundary corner



Alignment Pin references road alignment

Why protect survey marks?

Survey marks provide a wealth of important information to a wide range of people in the community. They are used to support the surveying of property boundaries, but are also important to engineering, road building, mapping and other land surveys. The loss of survey marks can significantly degrade the integrity of the legal property boundaries and impact on the costs of development projects that depend on position and height.

How survey marks are lost?

Over the last decade in excess of \$1 million worth of permanent survey marks have been destroyed in NSW per year*. This does not include the loss in value of destroyed cadastral marks or the lost value to the community and industry that survey marks provide. Survey marks are usually destroyed by development activity, particularly:

- road works and footpath construction
- roadside slashing
- shopping mall developments
- street beautification projects
- underground utility upgrade or replacement
 - gas
 - water
 - electricity
 - telecommunication cable installation.

* Based upon cost of mark placement and survey

Survey marks may need to be removed

As a result of construction or development works it may be necessary to remove some survey marks.

There are procedures in place for times when a survey mark has to be removed or replaced. The Surveyor-General has guidelines for the replacement of survey marks. See [Surveyor General's Directions No. 11 Preservation of Survey Infrastructure](#) on the Spatial Services website.



How to protect survey marks?

1. Before Works Commence

Find out if there are survey marks located in the area of interest by:

- 1.1. Viewing the Permanent Survey Mark layer on SIX Maps - maps.six.nsw.gov.au and print the map showing location of survey marks.
- 1.2. Downloading the [Permanent Survey Mark Locality Sketches](#).
- 1.3. Conducting a thorough search of plans on public record (e.g. Deposited Plans) to determine the location of cadastral reference marks. It is recommended a Registered Land Surveyor or a person under their supervision to undertake this task. A registered surveyor should be consulted as early as possible (at the planning stage).
- 1.4. Inspect the site paying particular attention to survey marks located in the footpath, kerb or gutter.
- 1.5. If no survey marks are affected by the proposed works then commence works.

2. If any survey marks could be affected by the works, e.g. disturbed or removed

- 2.1. Submit an [Application for Surveyor General Approval - Survey Mark\(s\) Removal](#).
 - 2.2. If only Permanent Survey Marks are affected, a declaration made by a Registered Land Surveyor stating that no Reference Marks are affected needs to be submitted with the application.
 - 2.3. Allow 10 working days for a formal response.
 - 2.4. Where required contact a registered surveyor to assist with the conditions of approval.
- ## 3. Protect survey marks
- 3.1. Comply with the conditions of the approval, place new marks and arrange a survey where required.
 - 3.2. Protect adjacent marks from disturbance for the duration of the works. Note that up to 3 weeks may be needed to complete the survey (dependent on the complexity).

Penalties for disturbing survey marks

The unauthorised removal, disturbance or destruction of survey marks is costly to the community. Section 24(1) of the Surveying and Spatial Information Act 2002 states a person must not remove, damage, destroy, displace, obliterate or deface any survey mark unless authorised to do so by the Surveyor-General. In addition to a maximum penalty of 25 penalty units (currently \$110 per penalty unit) a person found guilty by a court may be ordered to pay compensation up to \$10,000 towards the cost of reinstatement and up to \$10,000 towards loss or damage suffered.

For any enquiries contact [DCS Spatial Services](#).



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TAHE response to Before You Dig Australia Service Search

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2. The Information only relates to proposed Works to be undertaken outside of the rail corridor. If the proposed Works are to take place within the rail corridor, you must request TAHE to complete a separate service search.
3. The Information does not identify TAHE's Communication and Control systems/assets. Please contact TAHE on (02) 9379 5000 if You require TAHE to identify its Communications and Control systems/assets in the vicinity of the Search Area.
4. You are liable for the review of the Information before commencing any Works. The Information has been provided without taking into account the objectives, particular circumstances or needs of You or the Works. Before acting on the Information provided, You should consider the appropriateness of the Information having regard to your particular circumstances, objectives or needs.
5. You must ensure that the Works have no adverse effect on any TAHE Assets and/or TAHE railway operations. If you determine that the Works may impact on TAHE Assets and/or TAHE's railway operations, you may contact the appropriate TAHE representative on the details below:

Engineering & Maintenance Interface - DBYD-Stage2works@transport.nsw.gov.au / (02) 9669 8602

TAHE Communication and Control Systems - (02) 9379 5000

6. **Validity:** The Information is only valid for a period of one (1) month after you have been provided the Information. If Works have not commenced within one (1) month of the date after the Information is provided, you must resubmit your inquiry with Before You Dig Australia.

TAHE not liable for review and coordination

You are liable for the review of the Information before commencing any Works. You must ensure that the Works have no adverse effect on any TAHE Assets and/or TAHE's railway operations.

No representation or warranty by TAHE

7. TAHE does not 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 any plans or diagrams:
 - (a) only indicates the approximate location of TAHE Assets at the time the services were installed and may not show all TAHE Assets in the vicinity of the Search Area;
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 - (c) may indicate the possible presence or absence of TAHE Assets in the Search Area and has not been checked for accuracy or completeness for the purpose(s) of the Works.



Performance of the Works



8. You are responsible for, amongst other things:

- (a) ensuring that you exercise reasonable care and diligence in performing the Works and comply with TAHE directions (if any) in relation to undertaking the Works.
- (b) ensuring that once you have identified any services, Works are not undertaken:
 - (i) within a 5 metre radius of any TAHE electrical or, Communication assets and control system/- assets, and
 - (ii) within 25 metres of any other TAHE tunnel and/or Airport Line tunnel.
- (c) ensuring the Information and any other relevant documents related to the Works are kept at the Search Area for the duration of the Works.
- (d) immediately reporting to TAHE's ICON-Electrical System Operator of any damage caused or threat of damage to TAHE Assets in connection with the Works, and
- (e) ensuring that the Information is used only for the purpose for which the Before You Dig Australia Service search is intended.

Release and indemnity

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10. In consideration of the Before You Dig Australia Service search and the Information provided by TAHE, to the fullest extent permitted by law:
- (a) TAHE is not liable for any Loss, including consequential, special or indirect loss or damage, in respect of the Information provided to You, and your exclusive remedy for all Losses arising out of the Information provided to You (whether based on negligence, breach of warranty, strict liability, contract or otherwise) is limited, at TAHE's absolute discretion, to:
 - (i) supplying the Information again; and
 - (ii) payment of the cost of having the Information supplied again.
 - (b) In no event will TAHE be liable for, and You release TAHE 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 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 TAHE; and
 - (ii) regardless of whether TAHE is or ought to have been aware of, or advised of, the possibility of such Loss.
 - (c) You will indemnify TAHE against any Loss arising from or in connection with TAHE providing incorrect or incomplete information to You in connection with the Before You Dig Australia Service search.
 - (d) You assume all risks associated with the Information, including risk to your computer and software systems or data being damaged or destroyed by any virus, and You release and discharge TAHE from all Loss whatsoever which might arise in respect of the use of the Information.



Legislative requirements and governing law

1. In carrying out the Works You must comply with all relevant laws and the lawful direction of any relevant authority (including TAHE).
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 - 'Code of Practice: Excavation Work' (as may be amended from time to time), which provides practical advice for complying with the standards under the Act and Regulation in relation to excavation work. A copy of the code of practice is available online at: https://www.safework.nsw.gov.au/data/assets/pdf_file/0019/52147/Excavation-work-COP.pdf
3. These terms and conditions are governed by the laws of New South Wales and You submit to the exclusive jurisdiction of the courts of New South Wales.
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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:
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 - (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
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- 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.

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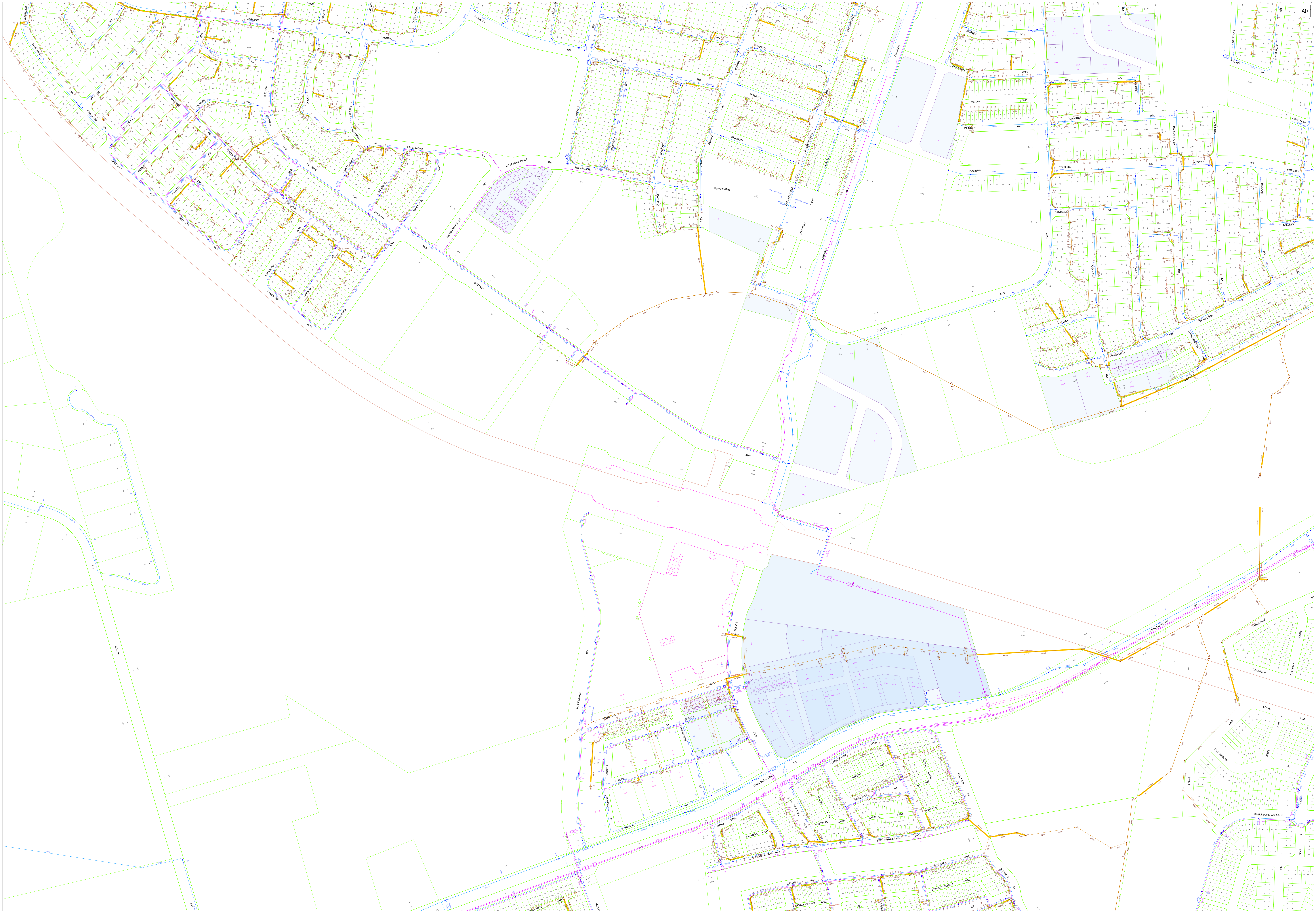
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Before you Dig Australia – BEST PRACTISE GUIDES

The five Ps of safe excavation

<https://www.byda.com.au/before-you-dig/best-practice-guides/>

OPENING ELECTRONIC MAP ATTACHMENTS –

Telstra Cable Plans are generated automatically in either PDF or DWF file types.
Dependent on the site address and the size of area selected.
You may need to download and install free viewing software from the internet e.g.



DWF Map Files (all sizes over A3)
Autodesk Viewer (Internet Browser) <https://viewer.autodesk.com/> or
Autodesk Design Review <http://usa.autodesk.com/design-review/> for
DWF files. (Windows PC)



PDF Map Files (max size A3)
Adobe Acrobat Reader <http://get.adobe.com/reader/>



Telstra BYDA map related enquiries email Telstra.Plans@team.telstra.com
1800 653 935 (AEST Business Hours only)



REPORT ANY DAMAGE TO THE TELSTRA NETWORK IMMEDIATELY

Report online - <https://www.telstra.com.au/forms/report-damage-to-telstra-equipment>

Ph: 13 22 03

If you receive a message asking for a phone or account number say:
“I don’t have one” then say “Report Damage” then press 1 to speak to an operator.



Telstra New Connections / Disconnections
13 22 00



Telstra asset relocation enquiries: 1800 810 443 (AEST business hours only).
NetworkIntegrity@team.telstra.com
<https://www.telstra.com.au/consumer-advice/digging-construction>



Telstra Aerial Assets Group (overhead network)
1800 047 909



CERTLOC Certified Locating Organisation (CLO)
certloc.com.au/locators/

Only Telstra authorised personnel and CERTLOC Locators can access Telstra’s Pit and Pipe Network.

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 BYDA's Best Practices and 5 Ps of Safe Excavation <https://www.byda.com.au/before-you-dig/best-practice-guides/>

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 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 CERTLOC Certified Locating Organisation (CLO). 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 Location Intelligence Team.

Telstra does not accept any liability or responsibility for the performance of or advice given by a CERTLOC Certified Locating Organisation (CLO). 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.

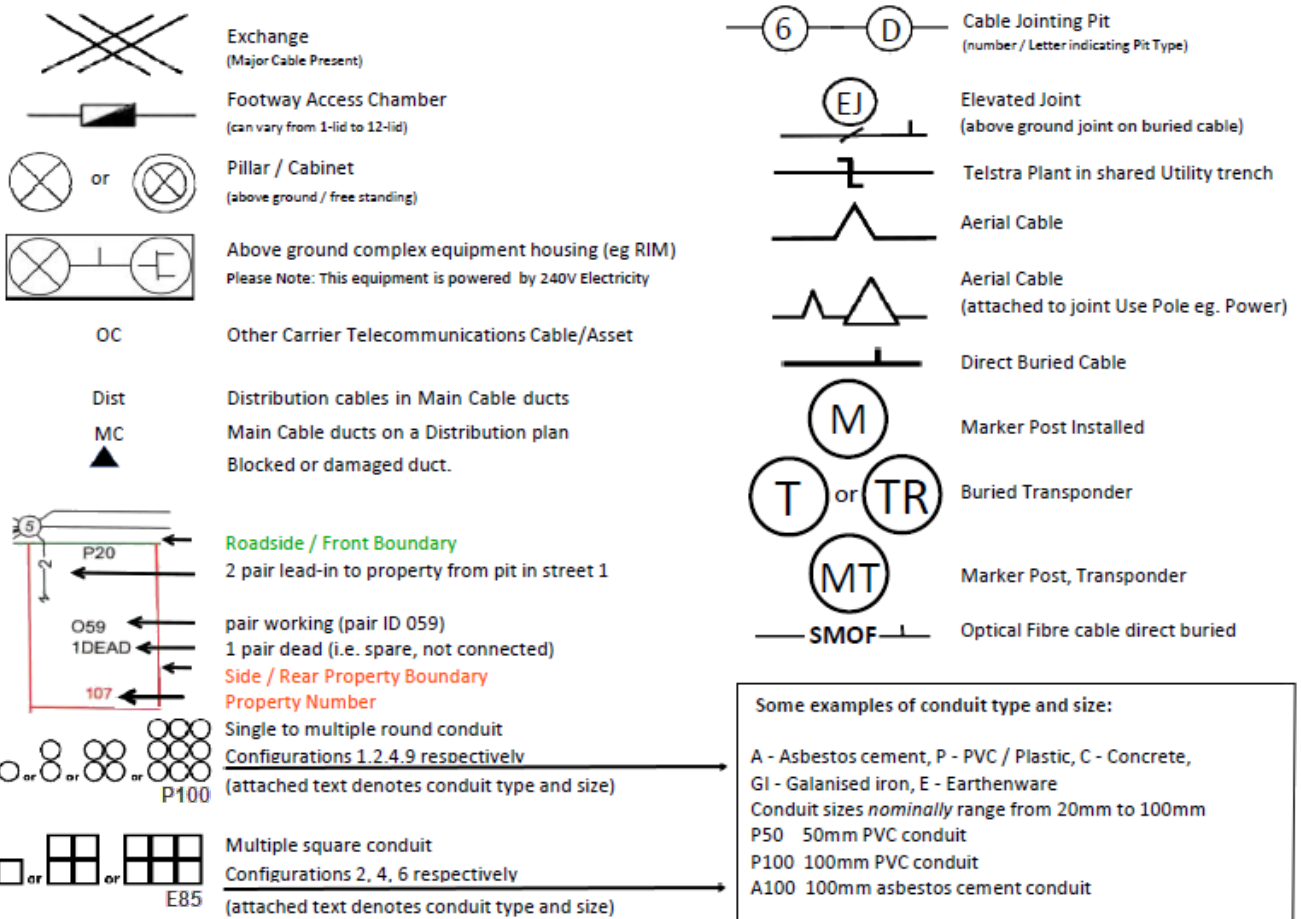
Workers and equipment must maintain safety exclusion zones around power lines

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).

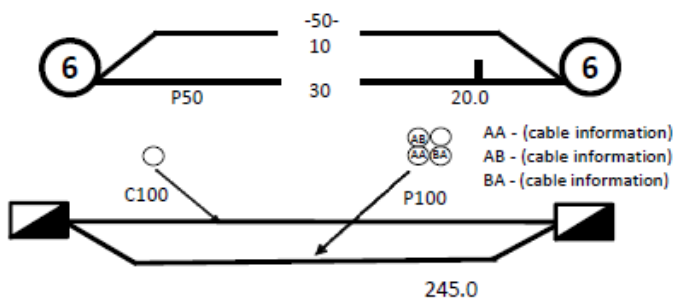
LEGEND



Some examples of conduit type and size:

A - Asbestos cement, P - PVC / Plastic, C - Concrete,
GI - Galvanised iron, E - Earthenware
Conduit sizes *nominally* range from 20mm to 100mm
P50 50mm PVC conduit
P100 100mm PVC conduit
A100 100mm asbestos cement conduit

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 [CERTLOC Certified Locating Organisation \(CLO\)](#) or
Telstra Location Intelligence Team 1800 653 935

Appendix B

Pressure and Flow

Statement of Available Pressure and Flow

ADP Consulting
3/8 Spring Street
Sydney, 2000

Attention: ADP Consulting

Date: 24/09/2025

Pressure & Flow Application Number: 2235292

Your Pressure Inquiry Dated: 2025-09-22

Property Address: Buchan Avenue, Edmondson Park 2174

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

ASSUMED CONNECTION DETAILS

Street Name: Buchuan Avenue	Side of Street: North
Distance & Direction from Nearest Cross Street	264 metres West from Braithwaite Road
Approximate Ground Level (AHD):	52 metres
Nominal Size of Water Main (DN):	200 mm

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	73 metre head
Minimum Pressure	44 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	44
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	10	45
	15	45
	20	45
	25	44
	30	44
	40	44
	50	43
	60	42
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main)	10	43
	15	43
	20	43
	25	43
	30	42
	40	42
	50	41
	60	40
Maximum Permissible Flow	75	39

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

hydraulicassessment@sydneywater.com.au

General Notes

This report is provided on the understanding that (i) the applicant has fully and correctly supplied the information necessary to produce and deliver the report and (ii) the following information is to be read and understood in conjunction with the results provided.

1. Under its Act and Operating Licence, Sydney Water is not required to design the water supply specifically for fire fighting. The applicant is therefore required to ensure that the actual performance of a fire fighting system, drawing water from the supply, satisfies the fire fighting requirements.
2. Due to short-term unavoidable operational incidents, such as main breaks, the regular supply and pressure may not be available all of the time.
3. To improve supply and/or water quality in the water supply system, limited areas are occasionally removed from the primary water supply zone and put onto another zone for short periods or even indefinitely. This could affect the supply pressures and flows given in this letter. This ongoing possibility of supply zone changes etc, means that the validity of this report is limited to one (1) year from the date of issue. It is the property owner's responsibility to periodically reassess the capability of the hydraulic systems of the building to determine whether they continue to meet their original design requirements.
4. Sydney Water will provide a pressure report to applicants regardless of whether there is or will be an approved connection. Apparent suitable pressures are not in any way an indication that a connection would be approved without developer funded improvements to the water supply system. These improvements are implemented under the Sydney Water 'Urban Development Process'.
5. Pumps that are to be directly connected to the water supply require approval of both the pump and the connection. Applications are to be lodged online via Sydney Water Tap in™ system - Sydney Water Website – www.sydneywater.com.au/tapin/index.htm. Where possible, on-site recycling tanks are recommended for pump testing to reduce water waste and allow higher pump test rates.
6. Periodic testing of boosted fire fighting installations is a requirement of the Australian Standards. To avoid the risk of a possible 'breach' of the Operating Licence, flows generated during testing of fire fighting installations are to be limited so that the pressure in Sydney Water's System is not reduced below 15 metres. Pumps that can cause a breach of the Operating Licence anywhere in the supply zone during testing will not be approved. This requirement should be carefully considered for installed pumps that can be tested to 150% of rated flow.

Notes on Models

1. Calibrated computer models are used to simulate maximum demand conditions experienced in each supply zone. Results have not been determined by customised field measurement and testing at the particular location of the application.
2. Regular updates of the models are conducted to account for issues such as urban consolidation, demand management or zone change.
3. Demand factors are selected to suit the type of fire-fighting installation. Factor 1 indicates pressures due to system demands as required under Australian Standards for fire hydrant installations. Factor 2 indicates pressures due to peak system demands.
4. When fire-fighting flows are included in the report, they are added to the applicable demand factor at the nominated location during a customised model run for a single fire. If adjacent properties become involved with a coincident fire, the pressures quoted may be substantially reduced.
5. Modelling of the requested fire fighting flows may indicate that local system capacity is exceeded and that negative pressures may occur in the supply system. Due to the risk of water contamination and the endangering of public health, Sydney Water reserves the right to refuse or limit the amount of flow requested in the report and, as a consequence, limit the size of connection and/or pump.
6. The pressures indicated by the modelling, at the specified location, are provided without consideration of pressure losses due to the connection method to Sydney Water's mains.

Statement of Available Pressure and Flow



ADP Consulting
3/8 Spring Street
Sydney, 2000

Attention: ADP Consulting

Date: 01/10/2025

Pressure & Flow Application Number: 2240157

Your Pressure Inquiry Dated: 2025-09-29

Property Address: Buchan Avenue, Edmondson Park 2174

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

Please Note :- **The results below are based on a future state model with network assets not yet in the ground and assumptions made regarding future infrastructure etc, therefore results are only indicative.**

ASSUMED CONNECTION DETAILS

Street Name: Buchan Avenue	Side of Street: North
Distance & Direction from Nearest Cross Street	305 metres West from Soldiers Parade
Approximate Ground Level (AHD):	53 metres
Nominal Size of Water Main (DN):	250 mm - Recycled

EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	68 metre head
Minimum Pressure	50 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	50

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

hydraulicassessment@sydneywater.com.au

General Notes

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Notes on Models

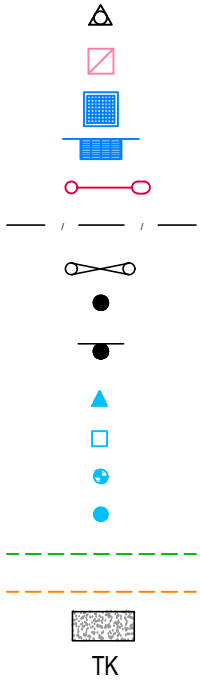
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Appendix C

Site Survey

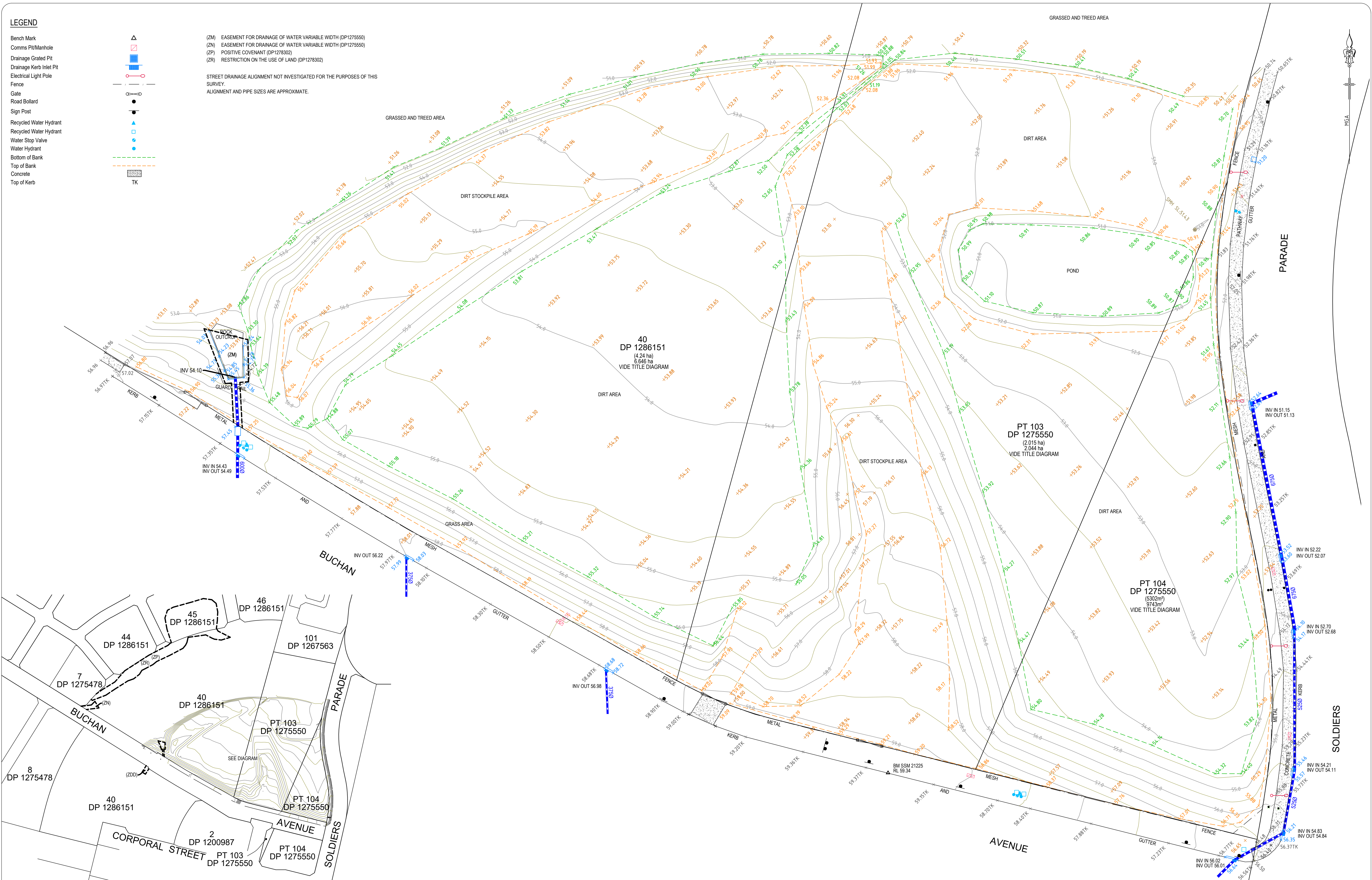
LEGEND

Bench Mark
Comms Pit/Manhole
Drainage Grated Pit
Drainage Kerb Inlet Pit
Electrical Light Pole
Fence
Gate
Road Bollard
Sign Post
Recycled Water Hydrant
Recycled Water Hydrant
Water Stop Valve
Water Hydrant
Bottom of Bank
Top of Bank
Concrete
Top of Kerb



(ZM) EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH (DP1275550)
(ZN) EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH (DP1275550)
(ZP) POSITIVE COVENANT (DP1278302)
(ZR) RESTRICTION ON THE USE OF LAND (DP1278302)

STREET DRAINAGE ALIGNMENT NOT INVESTIGATED FOR THE PURPOSES OF THIS SURVEY.
ALIGNMENT AND PIPE SIZES ARE APPROXIMATE.

[illegible]

- THE POSITION OF SERVICES SHOWN ON THIS DRAWING ARE INDICATIVE ONLY AND HAVE BEEN PLOTTED FROM PLANS AND DRAWINGS SUPPLIED BY RELEVANT AUTHORITIES.
- SERVICE AUTHORITY PITS, MANHOLES, POLES, MARKER POSTS, ETC., WHERE SIGHTED AT TIME OF SURVEY, HAVE BEEN LOCATED. THE SURVEY DOES NOT INCLUDE INVESTIGATION OR LOCATION OF UNDERGROUND INFRASTRUCTURE.
- SERVICES INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED THROUGH A DIAL BEFORE YOU DIG SEARCH AND IS VALID FOR THE PERIOD OF TIME FROM THE DATE OF ISSUE HEREBY.
- PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON OR ADJACENT TO THE SITE IT IS THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTORS TO APPLY FOR AND OBTAIN UP TO DATE PLANS THROUGH A NEW DIAL BEFORE YOU DIG SEARCH AND TO CONTACT ALL THE RELEVANT AUTHORITIES TO ESTABLISH AND CONFIRM THE DETAILED LOCATION AND DEPTH OF ALL UNDERGROUND SERVICES.



CLIENT:
LANDCOM



Beveridge Williams

Development and Infrastructure Consultants
Western Sydney (02) 4625 5055 www.beveridgewilliams.com.au

DETAILS:

PLAN OF DETAIL OVER PART OF
LOTS 103 AND LOT 40 IN DP1286151
AND
104 IN DP1275550

ORIGINAL
SCALE 1:400 SHEET SIZE A1
CAD REFERENCE: 1801407-DET
8 16 24
SCALE ON ORIGINAL DRAWING AT 1:400

SURVEYOR:
DRAWN:
CHECKED:
SURVEY DATE:
VERTICAL DATUM:
HORIZONTAL DATUM:

PROJECT No.	1801407
DRAWING REF.	1801407-DET
VERSION	A
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