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**52 & 66 HILLIER ROAD,  
HILLIER SERVICES REVIEW**

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69793-1  
REV C

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<b>Date</b>	23/01/2023	<b>Reference</b>	69793-1 Hillier Road, Hiller Rev B

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### Document Information

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<b>Approved by:</b> Leanne Gawde	Section Manager, Civil, Fyfe Pty Ltd	Date: 26 July 2022
<b>Client acceptance by:</b>		Date:

### Revision History

Revision	Revision Status	Date	Prepared	Reviewed	Approved
A	For Approval	10/10/2022	GCV	LMG	JRS
B	Amended	13/01/2023	GCV	LMG	JRS
C	Amended	23/01/2023	GCV	LMG	LMG

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## 1. INTRODUCTION

Fyfe Pty Ltd (Fyfe) has been engaged by URPS to prepare a summary report of the existing infrastructure at 52 and 66 Hillier Road, Hillier. The proposed site is to be rezoned from Rural to Residential Park that will provide opportunity for the expansion of the existing Hillier Residential Park located to the east of the marked site seen in Figure 1.1.

The rezoning of this land will see the introduction of approximately 400 additional residences over the 23.03ha site that will provide affordable accommodation on the edge of the Gawler Township.



**Figure 1.1 Site Extent and Locality**

The site is bounded by Hillier Road to the south, the Gawler River to the north and shares a common boundary with the existing Hillier Residential Park to the east.

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## 1.1 Scope

The following report has been prepared to support a rezoning proposal and will include the following items:

- An overview of the general infrastructure that will identify the availability of water, wastewater (sewer), power etc to the site;
- An overview of the internal infrastructure requirements; and
- An overview of the external infrastructure requirements.
- The investigations have been prepared to support a rezoning proposal and the detailed infrastructure matters will be dealt with in the Development Application Stage. This will occur in accordance with the PDI Act and Planning and Development Code.

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## 2. SERVICES

Services required for the development of residential properties are discussed below, mainly sewer, water (potable / drinking), stormwater, power and telecommunications.

### 2.1 Sewer

#### 2.1.1 Existing Services

The proposed site is generally flat with a slight grade south-west towards Hillier Road. As advised by SA Water, there is no sewer infrastructure near this land, but the closest sewer pipe is a 525mm gravity main that lies within Angle Vale Road. At the time of this report SA Water have not been able to provide information as to whether this pipe is available for connection.

If this gravity main is available connection, discussions will be had about the point of connection and easements associated with the same. In the case that this pipe is not available for connection, an alternate servicing plan will be discussed and designed during detailed design process.

The extent of the existing sewer network can be seen in the Dial Before You Dig Plans in Appendix A.

#### 2.1.2 External Infrastructure Requirements

Considering the existing infrastructure, two new potential service options are considered.

The first option would be the installation of a gravity main that would connect to the existing infrastructure. Assuming the gravity main that lies within Angle Vale Road is available for connection, a new gravity main will need to be constructed to allow connection. There are two proposed options to allow for this connection. The first option is that the gravity main will be constructed along Hillier Road towards Elliot Road that can then connect into the Angle Vale Road connection. Alternatively, an agreement may be made with SA Water and the landowner of the land to the south and a gravity main could be connected to Angle Vale Road. This will require acquisition of easements through properties south of this development.

There is a possibility of other developments south of this land will be constructed prior and sewer mains through their road network can be negotiated.

The second option would be the installation of a pit and pipe system along with a rising main that would connect to SA Water's infrastructure within Murray Hillier Court. This option has previously been used for the existing Hillier Park but will require discussion with SA Water as to whether this option is viable for both 52 and 66 Hillier Road.

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### **2.1.3 Internal Infrastructure Requirements**

Sewer connections will be provided to all residences through an internal sewer network that will then flow into the proposed external gravity main that is to be located within Hillier Road or into the proposed pit and pipe system that will connect into Murray Hillier Court. The internal sewer network will be constructed with 150mm pipes and will require allotment connections to each house. A number of inspection openings, maintenance holes and maintenance shafts will be required as per standard guidelines.

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## **2.2 Potable Water**

### **2.2.1 Existing Services**

Potable water is anticipated to be supplied by an existing water main that lies within Hillier Road. SA Water has advised that the existing 100mm water main along Hillier Road will need to be upgraded to continue to supply this and other developments. SA Water also advised that this is a limited supply area and other supply options may need to be investigated to ensure the demand of this site is being met.

The extent of the existing potable water network can be seen in the Dial Before You Dig Plans in Appendix B.

### **2.2.2 External Infrastructure Requirements**

SA Water have advised that the existing 100mm water main that is located within Hillier Road will need to be upgraded to a minimum of 150mm to support the development. It should be noted that at the time of this advice, the site scope only included 52 Hillier Road, however, the proposed upgrade is expected to support 66 Hillier Road also. This water main requires upgrade all the way back to the corner of Murray Hillier Court and Maher Place to the east of the site.

SA Water have also advised that due to this being a limited supply area, there will likely be further constraints that cannot be determined until detailed design has been undertaken.

According to our assessment for various engineering design in the council area a new 150mm diameter main will be required from east of Jack Cooper drive as the existing 100mm main is insufficient to cater for the developments. The new 150mm diameter will be sufficient to service both these parcels of land. There will be cost contribution arrangements with SA Water as other land user will also benefit from this upgrade. It is possible this 150mm diameter pipe will be installed prior to this development to assist other upcoming developments and the only upgrade required for this development would be from the existing Residential Park to this site, approximately 500 metres.

### **2.2.3 Internal Infrastructure Requirements**

An internal potable water network will provide a connection to each of the 400 houses via a few manifold connections at the boundary of Hillier Road. Depending on number of houses built in one stage, water demand of each house and pressure in the proposed main the number of manifold connections will be estimated. This will be undertaken in detailed design The internal network will consist of the 100mm water main, a number of fire hydrants and house connections.



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## 2.3 Stormwater

### 2.3.1 Existing Network

The existing stormwater infrastructure consists of an open roadside grassed swale with sections of covered pipes aligning Hillier Road to the east.



**Figure 2.1 Existing Stormwater Infrastructure**

The extent of the existing stormwater network can be seen in the Dial Before You Dig Plans in Appendix C.

### 2.3.2 External Infrastructure Requirements

Upgrade of system will be required to cater for additional stormwater generated from Hillier Road widening and intersection design. Kerbing of road will further add to stormwater system to be piped along the length of the development boundary.

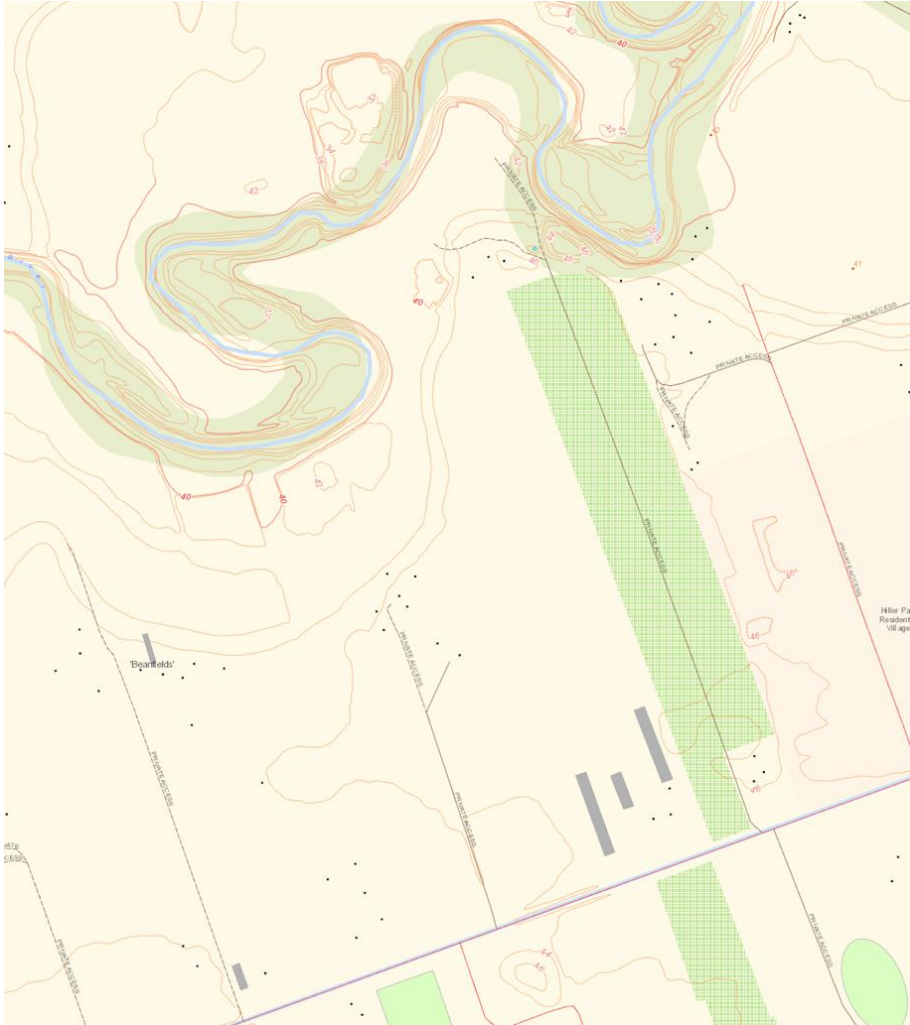
Further negotiations with council will be required at discharge points and upgrades / erosion control will be required to be agreed upon. These negotiations will occur prior to lodging a Development Application.

### 2.3.3 Internal Infrastructure Requirements

Council has advised that the legal point of discharge for the site is to be towards Hillier Road and the discharge to the street will not exceed 12L/s. Post development flows should not exceed pre-development flows. Detention must be provided to achieve these flow rates. Detention will be provided as an open detention basin, underground storage tanks or oversized pipes. A further consideration should be given to rainwater tanks to reduce size of detention.

Water Quality assessment will be required for the development prior to discharge at receiving waters. Further modelling will be undertaken to providing the area required for water quality treatment.

Through discussion with URPS and Gawler Council, three options are proposed for the detention and discharge of the stormwater based on the natural fall of the land as seen in Figure 2.2 below.



**Figure 2.2 Contour Map of 54/66 Hillier Road, Hillier**

### **2.3.3.1 Option One – Drainage to Gawler River**

Option One proposes a detention basin at the low point of the site that will then discharge North towards the Gawler River. The natural grade of the site shows the low point of the site is as seen as the proposed basin location in the Figure 2.3 below.



**Figure 2.3 Proposed Basin Location - Option One**

Option One will see all stormwater collected from the development and surrounding areas directed towards the proposed basin, which will then grade with the existing site levels to naturally flow in the direction of the Gawler River. This option will require earthworks on the basin to allow for onsite detention.

### **2.3.3.2 Option Two – Bulk Earthworks to Allow Grading Towards Hillier**

Option Two will consider bulk earthworks of the site to allow the site to grade back towards Hillier Road. This option will require substantial fill across the site which will result in changes to the natural and surrounding areas.



**Figure 2.4 Locality of Karbeethan Reserve**

Once bulk earthworks are complete, the site will grade towards Hillier Road and the stormwater collected can be utilised within the Karbeethan Reserve, located south-west of the proposed site (see Figure 2.4).

It should be noted that this is the least favourable option.

### **2.3.3.3 Option Three – Pump Station**

Option Three will include works to accommodate a pump station that will allow stormwater to discharge to Hillier Road as a natural grade towards Karbeethan Reserve cannot be achieved. The proposed pump station could be within the internal road reserve. The proposed pump station will allow stormwater to be pumped from the low point of the site (refer to Section 2.3.3.1), and discharge to Hillier Road. The installation of a pump station will allow stormwater to be discharged to Hillier Road whilst maintaining the existing site conditions. It is expected that the stormwater that is going to be pumped towards Hillier Road will naturally drain to the reserve and also be used within Karbeethan Reserve.

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### **2.3.4 Summary of Design Options**

The first proposed option for the stormwater management of the site will provide drainage along the natural grade towards a detention basin proposed on the north section of the site. From here, the stormwater will discharge into the Gawler River. The proposed location of the detention basin can be seen in Figure 2.3 above.

The second option will see bulk earthworks completed to allow the site to drain towards Hillier Road. A significant amount of fill will be required across the site to ensure it grades towards Hillier Road. During initial discussions, council have expressed their preference for stormwater to be directed towards Hillier Road as opposed towards the Gawler River. The advantage of Option Two and Three is that the collected stormwater can be used within the Karbeethan Reserve on the southern side of Hillier Road (refer Figure 2.4). There is concern however, that bulk earthworks across the site will change the natural soil profile of the site and is expected to come at a considerable cost. As a result, Option Two is considered the least favourable option for the stormwater management of this site.

Option Three will provide drainage towards Hillier Road through the use of a pump station as a natural grade towards Hillier Road cannot be achieved. The collected stormwater will also be utilised within the Karbeethan Reserve.

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## **2.4 Electrical**

### **2.4.1 Existing Network**

The existing electrical network is comprised of two, high voltage power lines located along the length of Hillier Road. The both the 11kV and 66kV lines are located on the northern side of Hillier Road. It should be noted that the Dial Before You Dig plans have omitted a 11kV line and pole mount transformer located on the northern end of the site that is apart of the existing electrical network.

The extent of the existing electrical network can be seen in the Dial Before You Dig Plans in Appendix D.

### **2.4.2 External Infrastructure Requirements**

External infrastructure requirements will consist of the undergrounding of the overhead powerline located on Hillier Road. The extent of this undergrounding can be limited by the stobie poles along the front of 52 Hillier Road and 66 Hillier Road.

Further upgrades of existing infrastructure are unknown at this stage. Once an application with the intent of number of dwellings developed further information can be provided.

### **2.4.3 Internal Infrastructure Requirements**

Augmentation will be required for additional demand required by the new development. Augmentation, as defined by SAPN is the “upgrade of the distribution network capacity in order to meet new or additional customer demand”. Each lot will require a standard 6kVa to be adequately serviced which will result in 2400 kVa of new load as advised by SAPN.

400 lots at the standard 6kVa per lot = 2400 kVA of new load x \$275/kVa = \$660,000 augmentation charges will be required of which 60% is usually rebated (handed back).

SAPN has advised that the likely connection point for the proposed development will be the 11kV power line within Hillier Road.

This demand would need to be serviced by at least ten (10) new 315kVA pad mount transformers located within the proposed development. As the demand exceeds 1MVA, SAPN have advised a looped feed is required and the exact location of loop feed will be determined in detailed design.

## 2.5 NBN

### 2.5.1 Existing Network

There is existing NBN fixed line network footprint.

The extent of the existing NBN network can be seen in the Dial Before You Dig Plans in Appendix E.

### 2.5.2 External Infrastructure Requirements

### 2.5.3 Internal Infrastructure Requirements

NBNCo had initially advised that there will likely be no back haul charges required to service the proposed site, subject to confirmation of number of residences. This was for 185 houses. A verbal confirmation of additional houses on the new / proposed grid is acceptable with no further back haul charges.

NBNCo have also advised some headworks (works outside site boundary) will be required.

Standard capped per premises contribution will apply to service the development.

### 2.5.4 Additional Information

### 2.5.5 Transport

Pedestrian connectivity and bus route is proposed south of this development which will be advantageous for this development



Figure 1: Concept Plan 101: Evanston Gardens (Source: Planning and Design Code)

Figure 2.5 Concept Plan (Transport)

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### 3. LIMITATIONS OF INVESTIGATION

The above assessment is based on our experience of development in the vicinity of the area and similar projects. At the time of this report, advice has not been received from the service authorities regarding the capacity of the expected upgrades. Further discussions will need to be had with service authorities to confirm potential upgrades and/or works, capacities of any existing services and connection points to existing infrastructure.

We have assumed the works associated with upgrades of existing facilities will require negotiations.



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**APPENDIX A**  
**SA WATER (WASTEWATER) DBYD PLANS**

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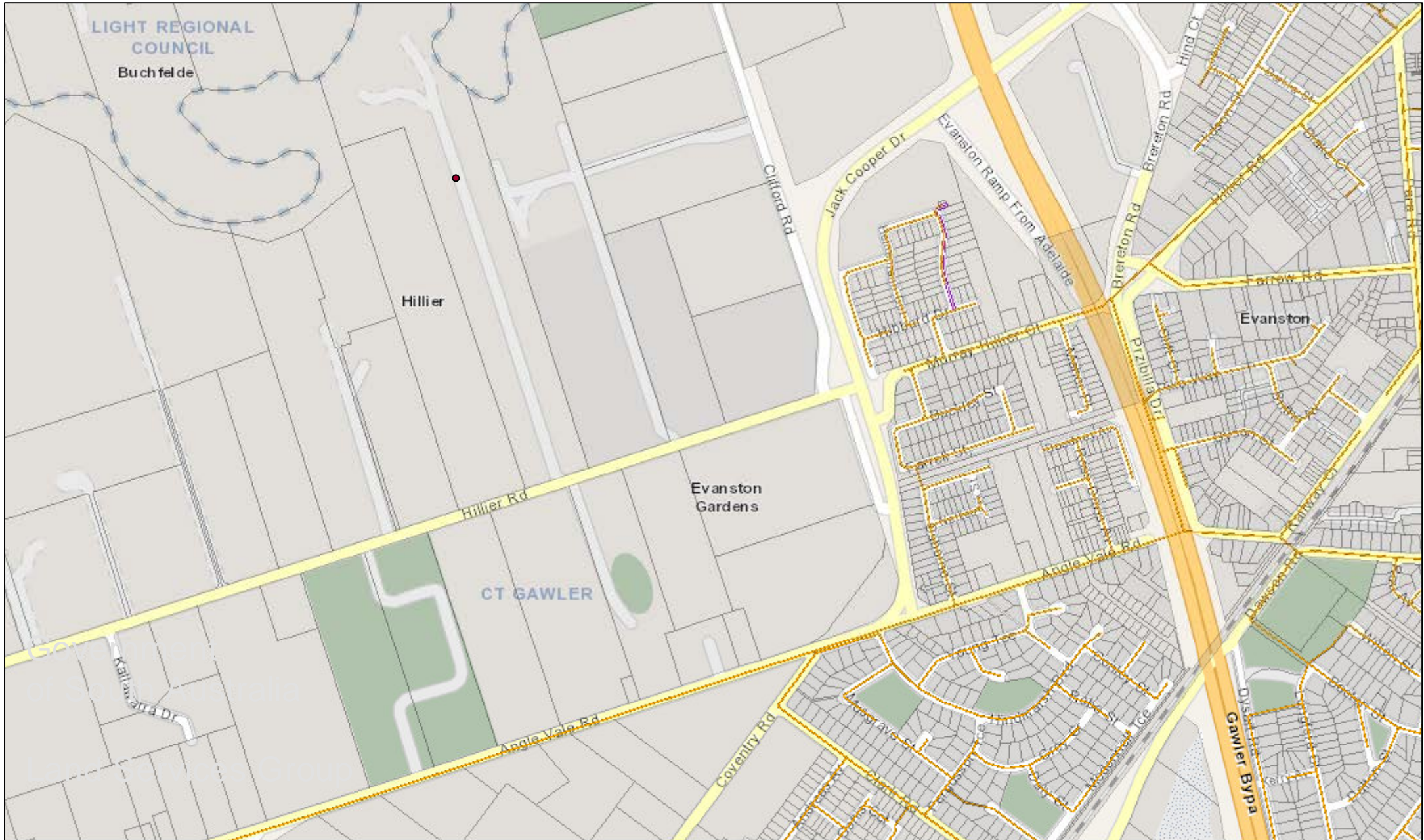


# SAPPA Report

The SA Property and Planning Atlas is available on the Plan SA website: <https://sappa.plan.sa.gov.au>

Date created:

October 10, 2022



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**APPENDIX B**  
**SA WATER (POTABLE WATER) DBYD PLANS**

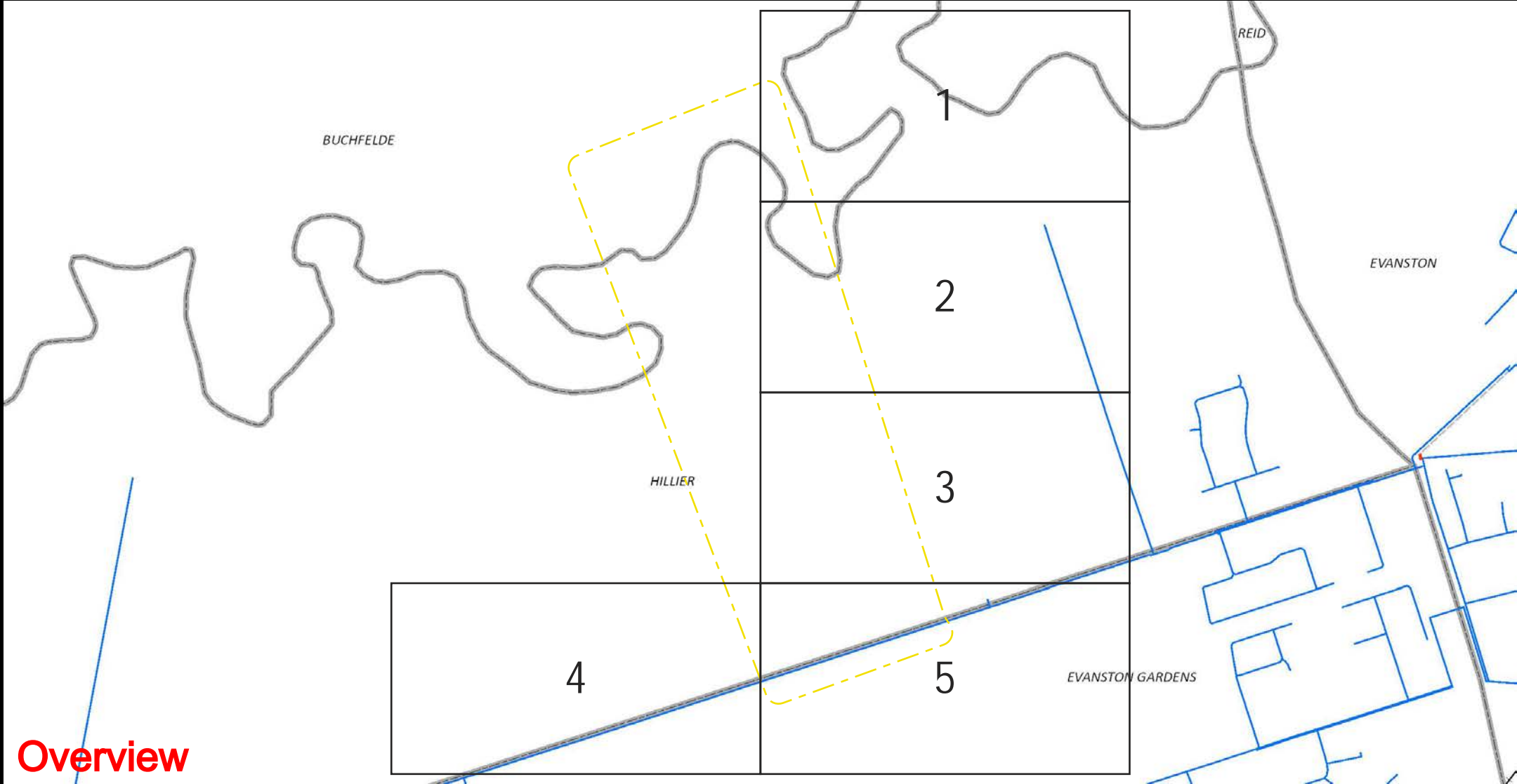
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# WATER RETICULATION

DBYD Sequence No: 214155706



## Overview

- |                                   |                          |                                    |   |
|-----------------------------------|--------------------------|------------------------------------|---|
| ● Water Valves                    | ⊙ Water Pillar Hydrant   | - - - CP Anode/Cathode Cables      | + Railway   |
| — Water Main                      | ○ Water Hydrant          | - - - CP Electricity Supply Cables | □ Land Parcels                                      |
| - - - Water Main (Decommissioned) | ▲ CP Facility            | □ CP Anode Bed Outlines            | Ⓜ Water Meter*                                      |
| — Decommissioned Asbestos Mains   | CP = Cathodic Protection |                                    | Ⓜ Shifted Water Meter*                              |
|                                   |                          |                                    | * Connection between water meter and pipe not shown |

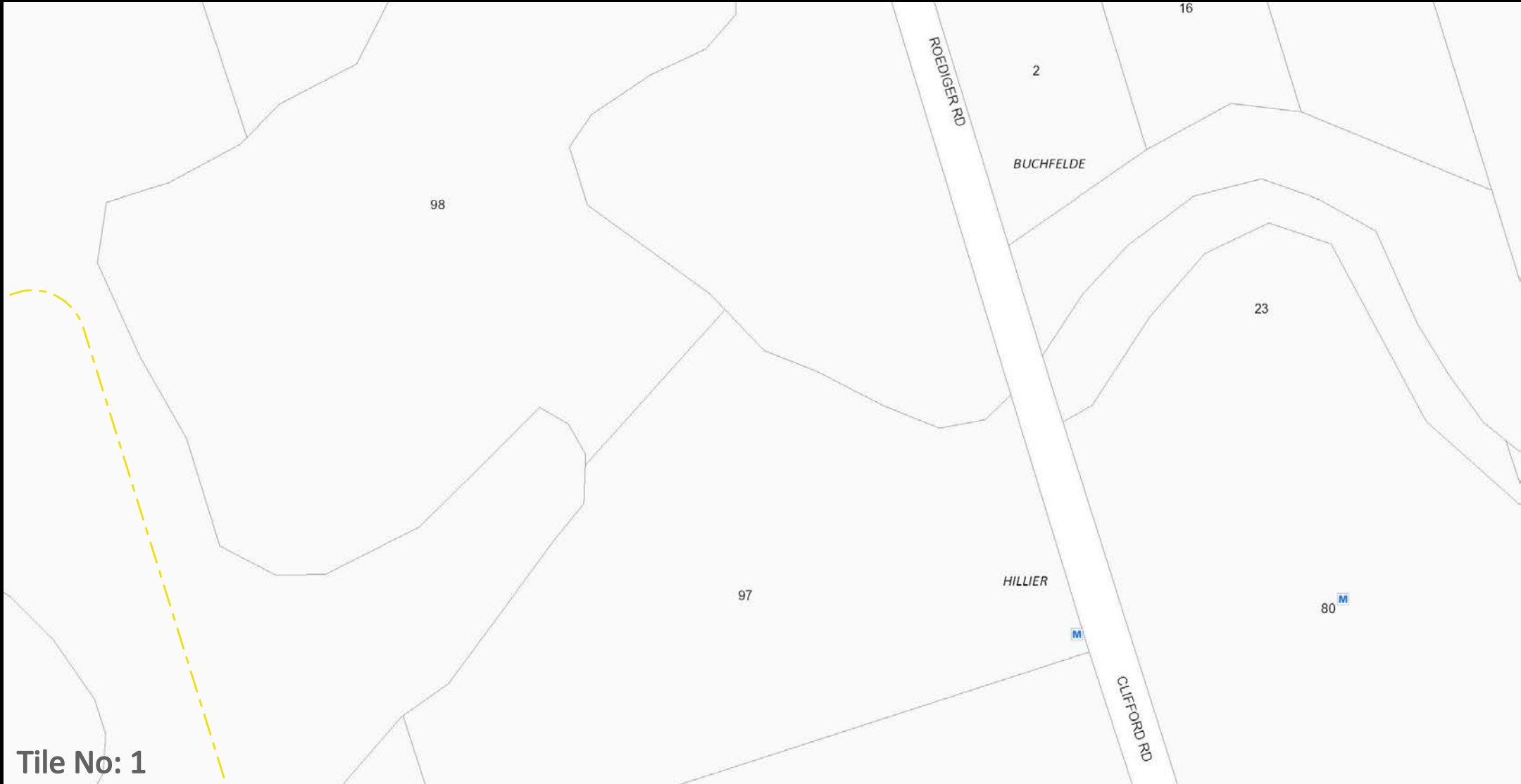
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# WATER RETICULATION

DBYD Sequence No: 214155706



Tile No: 1

- Water Valves
- Water Main
- - - Water Main (Decommissioned)
- Decommissioned Asbestos Mains
- Water Pillar Hydrant
- Water Hydrant
- ▲ CP Facility
- CP = Cathodic Protection
- - - CP Anode/Cathode Cables
- - - CP Electricity Supply Cables
- CP Anode Bed Outlines
- Railway
- Land Parcels
- M Water Meter\*
- M Shifted Water Meter\*
- \* Connection between water meter and pipe not shown

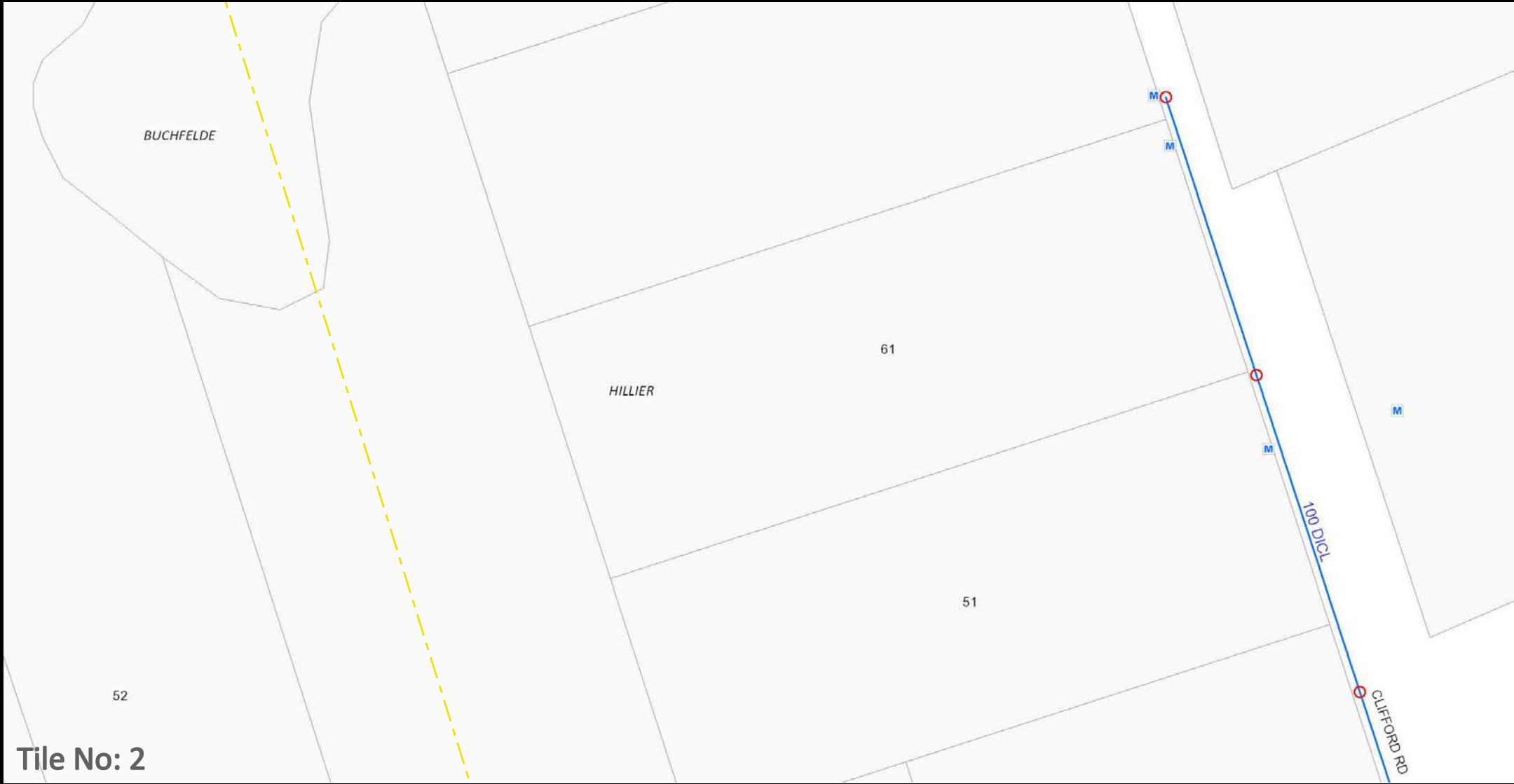
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# WATER RETICULATION

DBYD Sequence No: 214155706



Tile No: 2

- Water Valves
- Water Main
- - - Water Main (Decommissioned)
- Decommissioned Asbestos Mains
- Water Pillar Hydrant
- Water Hydrant
- ▲ CP Facility
- CP = Cathodic Protection
- - - CP Anode/Cathode Cables
- - - CP Electricity Supply Cables
- CP Anode Bed Outlines
- Railway
- Land Parcels
- Water Meter\*
- Shifted Water Meter\*
- \* Connection between water meter and pipe not shown

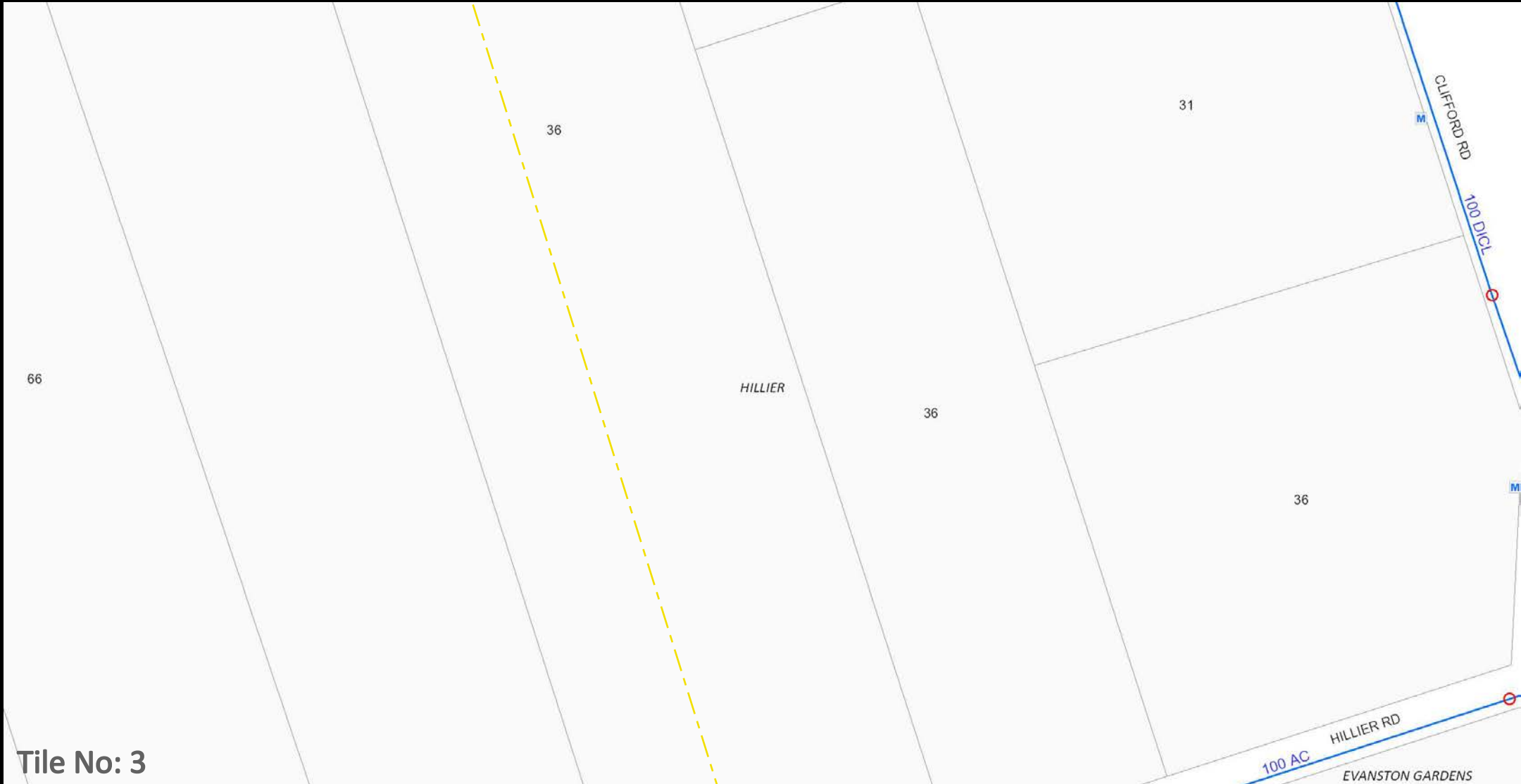
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# WATER RETICULATION

DBYD Sequence No: 214155706



Tile No: 3

- Water Valves
- Water Main
- - - Water Main (Decommissioned)
- Decommissioned Asbestos Mains
- Water Pillar Hydrant
- Water Hydrant
- ▲ CP Facility
- CP = Cathodic Protection
- - - CP Anode/Cathode Cables
- - - CP Electricity Supply Cables
- CP Anode Bed Outlines
- + Railway
- Land Parcels
- M Water Meter\*
- M Shifted Water Meter\*
- \* Connection between water meter and pipe not shown*

Scale @ A4: 1:2500

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# WATER RETICULATION

DBYD Sequence No: 214155706



Tile No: 4

- Water Valves
- Water Main
- - - Water Main (Decommissioned)
- Decommissioned Asbestos Mains
- Water Pillar Hydrant
- Water Hydrant
- ▲ CP Facility
- CP = Cathodic Protection
- - - CP Anode/Cathode Cables
- - - CP Electricity Supply Cables
- CP Anode Bed Outlines
- + - - Railway
- Land Parcels
- M Water Meter\*
- M Shifted Water Meter\*
- \* Connection between water meter and pipe not shown

Scale @ A4: 1:2500

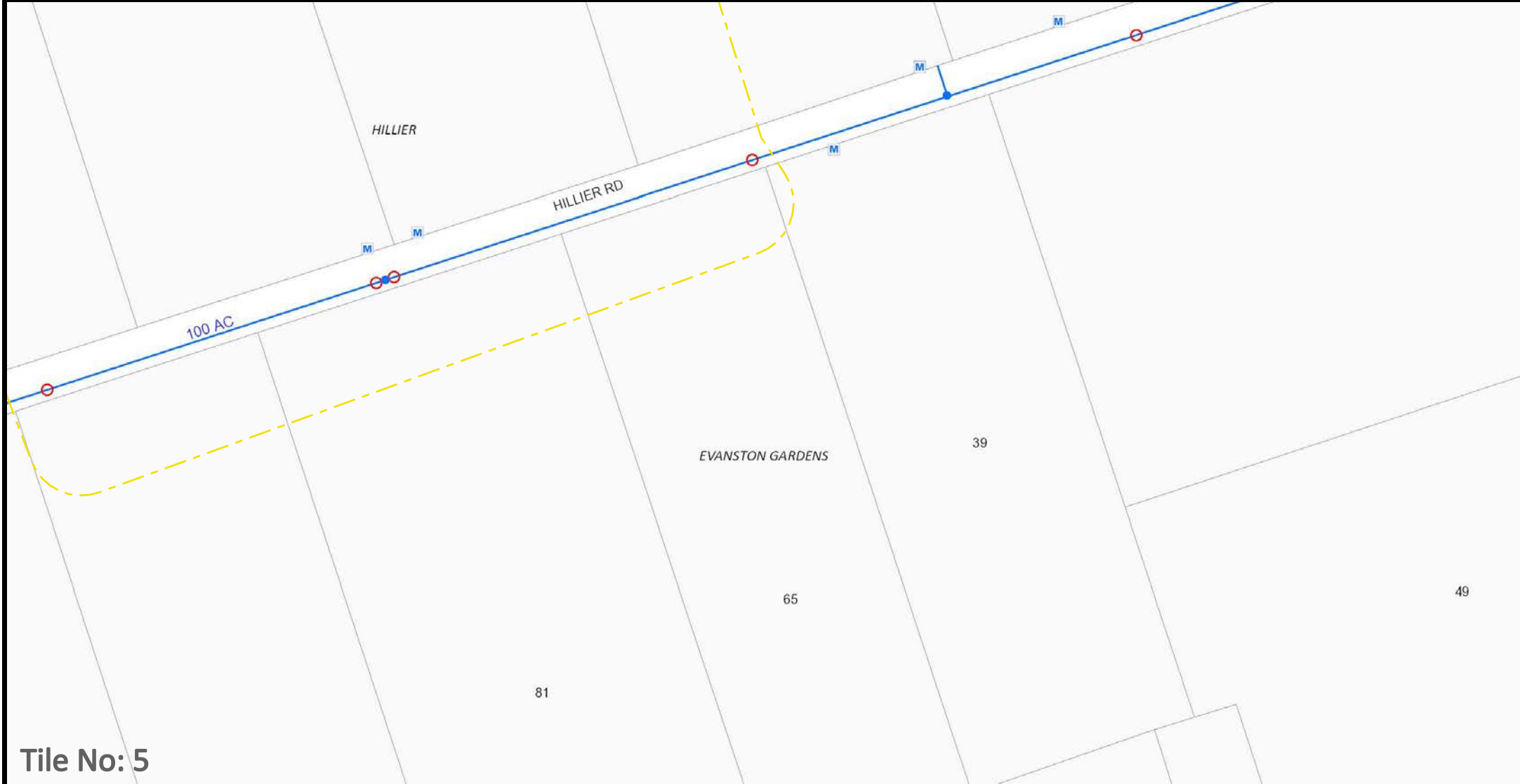
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# WATER RETICULATION

DBYD Sequence No: 214155706



Tile No: 5

- Water Valves
- Water Main
- Water Main (Decommissioned)
- Decommissioned Asbestos Mains
- Water Pillar Hydrant
- Water Hydrant
- ▲ CP Facility
- CP = Cathodic Protection
- - - CP Anode/Cathode Cables
- - - CP Electricity Supply Cables
- CP Anode Bed Outlines
- Railway
- Land Parcels
- M Water Meter\*
- M Shifted Water Meter\*
- \* Connection between water meter and pipe not shown

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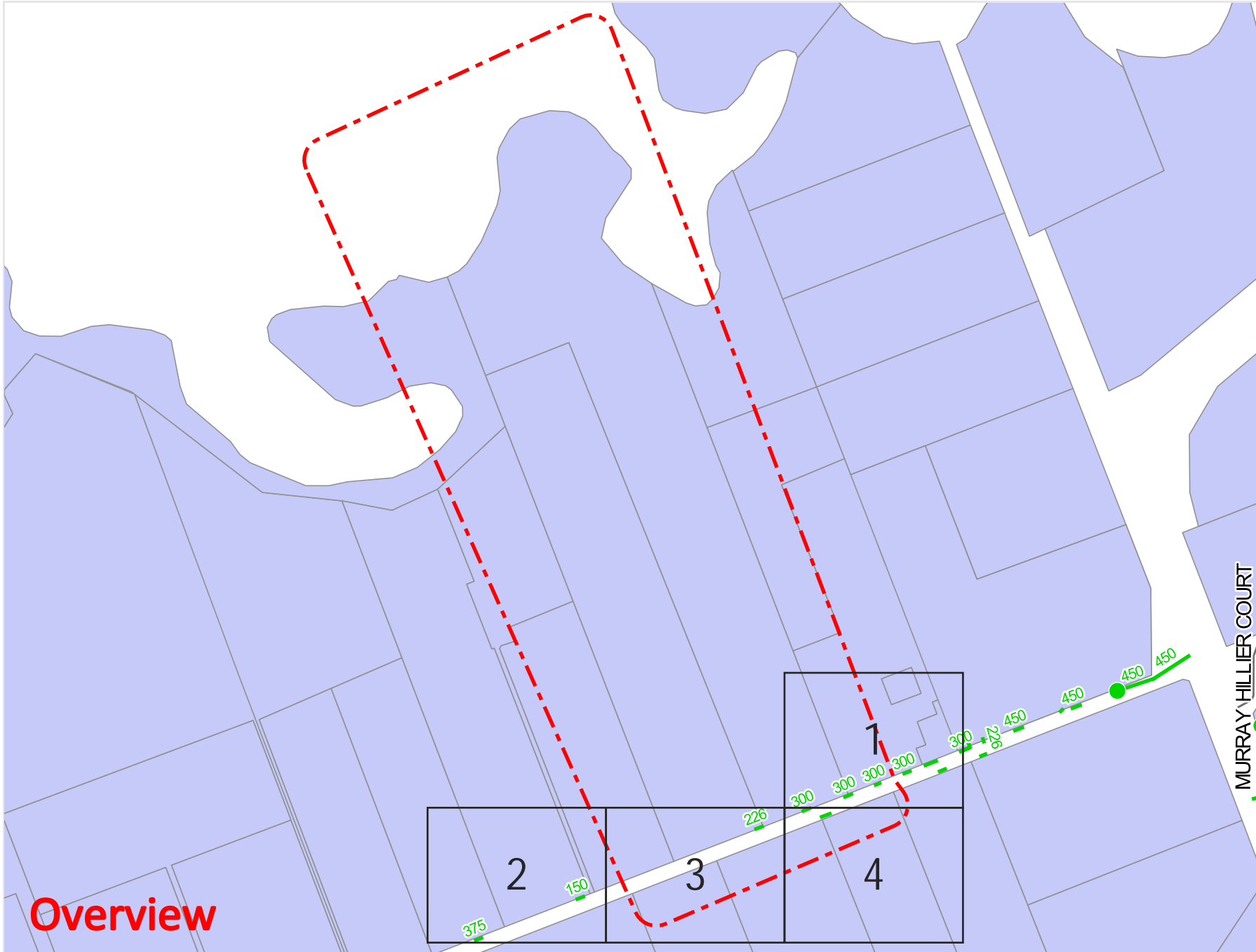
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## **APPENDIX C**

# **TOWN OF GAWLER (STORMWATER) DBYD PLANS**

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### Legend

- Stormwater Pits
- Stormwater Pipes
- Footpaths
- - - Area of Enquiry



Scale: 1:7047  
Expires: 25 Aug 2022

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## Overview



The Essential First Step.

### Legend

- Stormwater Pits
- Stormwater Pipes
- Footpaths
- - - Area of Enquiry



Scale: 1:1000  
Expires: 25 Aug 2022

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Tile No: 1



The Essential First Step.

### Legend

- Stormwater Pits
- Stormwater Pipes
- Footpaths
- - - Area of Enquiry

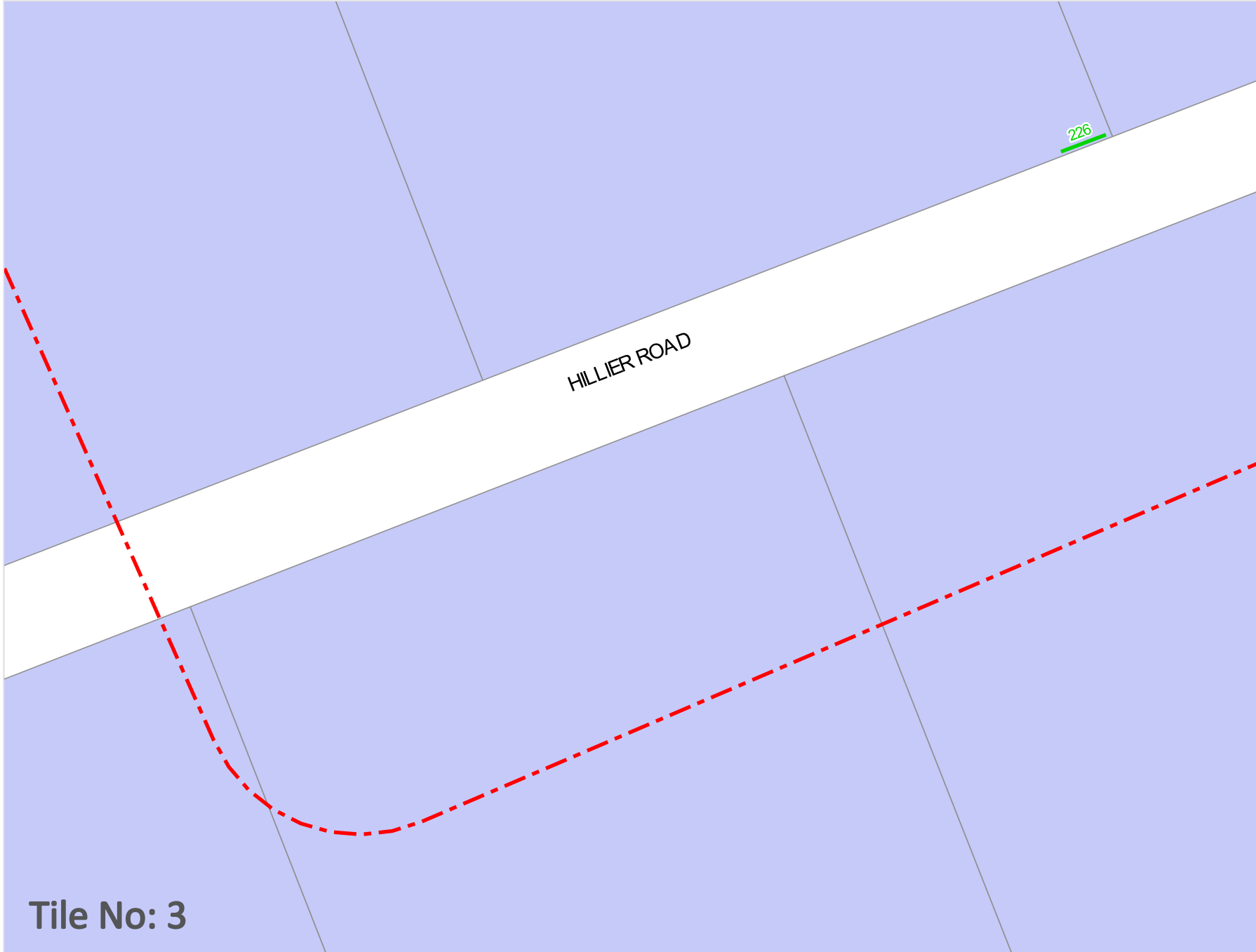


Tile No: 2



Scale: 1:1000  
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### Legend

- Stormwater Pits
- Stormwater Pipes
- Footpaths
- - - Area of Enquiry



Scale: 1:1000

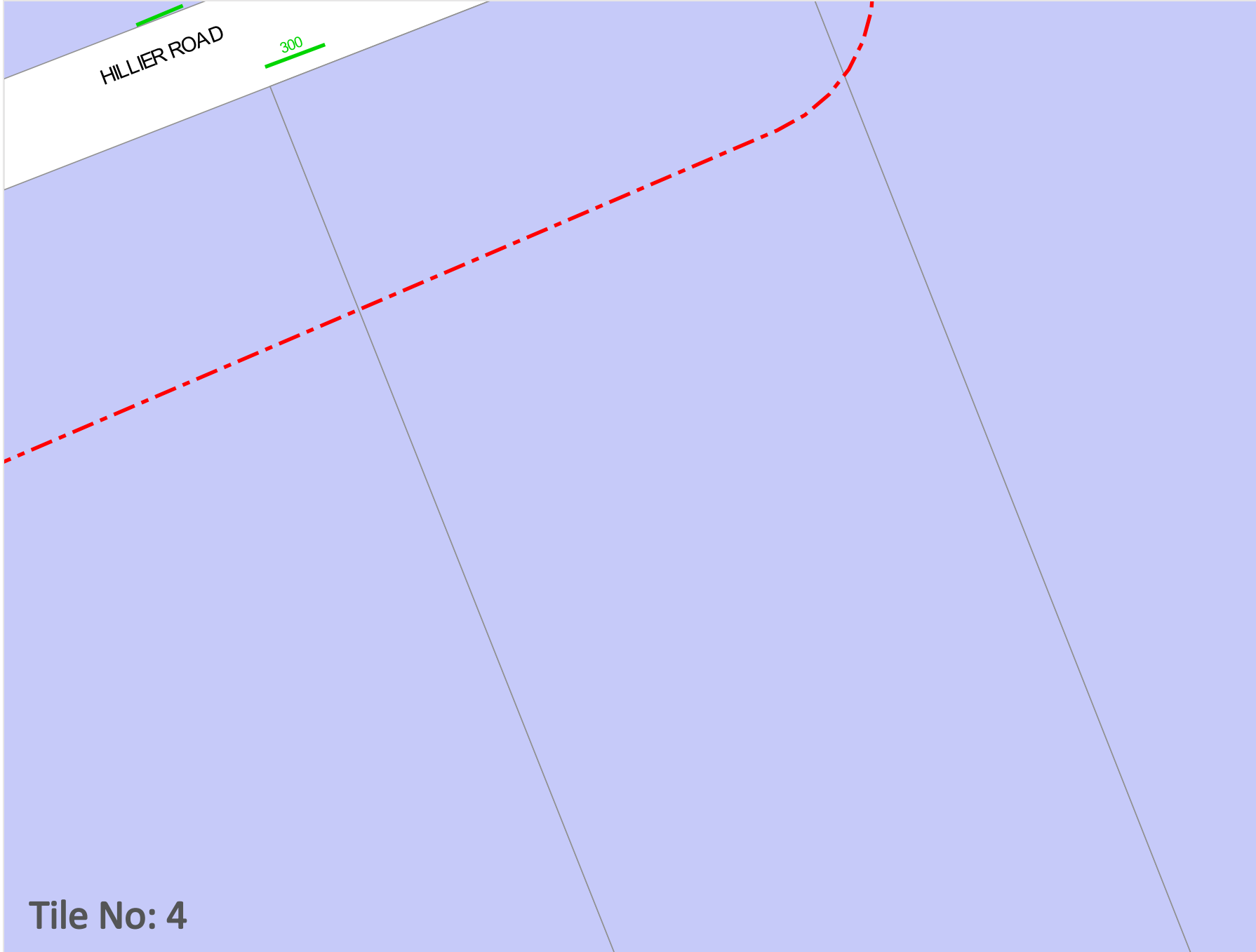
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Tile No: 3



The Essential First Step.



**Legend**

- Stormwater Pits
- Stormwater Pipes
- Footpaths
- - - Area of Enquiry



Scale: 1:1000  
Expires: 25 Aug 2022

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## **APPENDIX D**

# **ELECTRICAL (SAPN) DBYD PLANS**

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**To:**

FYFE - Genevieve Virgara

124 South Terrace

Adelaide

SA

5000

Enquiry Details		
Utility ID	50800	
Sequence Number	214155709	
Enquiry Date	28/07/2022 08:57	
Response	<b>AFFECTED</b>	
Address	Lot 5 Hillier Road Hillier	
Location in Road		
Activity	Planning and Design	

Enquirer Details		
Customer ID	3151945	
Contact	Genevieve Virgara	
Company	FYFE	
Email	genevieve.virgara@fyfe.com.au	
Phone	+61882019608	Mobile

## Underground cable locations ASSETS FOUND

### The process:

1. You made an enquiry with Dial Before You Dig (1100).
2. Dial Before You Dig referred your enquiry to SA Power Networks (South Australia's Distribution Network).
3. SA Power Networks has checked their records and have found underground assets in your request area.
4. Please review the attached Asset Map(s) in regard to your excavation, as there may be some restrictions that apply if your excavation is greater than 300mm below ground level and less than 3.0m from an SA Power Networks Asset. Further explanation of restricted and exclusion zones can be found at <http://www.sapowernetworks.com.au/public/download.jsp?id=1775> OR search [sapowernetworks.com.au](http://www.sapowernetworks.com.au) for NICC 404 and by referring to the figure on page 10, 11 or 12.
5. An on-site assessment and/or technical drawings may also be necessary to ascertain the exact cable/asset location. This service can be provided by SA Power Networks and may incur a cost.
6. Please contact your local SA Power Networks Location Officer to schedule work or make further enquiries regarding this request either by return email or the contact number supplied. Other general enquiries can be made on (08) 8292 0218.
7. If you have damaged SA Power Networks Assets immediately notify Faults & Emergencies on (08) 8404 4496.

**Please note: Underground services in the vicinity of any proposed earthworks must be located by hand digging (pot-holing) prior to the commencement of works. Persons conducting works will be held responsible for any resulting loss or damage to the services associated with infrastructure**

## Important information and conditions of use for users of underground services information supplied by SA Power Networks

### Indicative information only

The accompanying information is intended only to indicate the presence of SA Power Networks' underground services and/or to convey general indicative information in respect of the location marked on the plans. **The information does not necessarily provide current, comprehensive or accurate description or location of the underground services or associated infrastructure.**

The information may also describe or indicate the presence of underground services or infrastructure not owned by SA Power Networks, for example, electrical services connected to an SA Power Networks' service point. SA Power Networks takes no responsibility for services or infrastructure that is not owned or operated by SA Power Networks or the accuracy or completeness of their description or location in the accompanying information.

Additional technical information may be requested from SA Power Networks for planning or engineering design (non-digging) purposes. Such requests are to be directed to SA Power Networks Builders and Contractors Electrical Service Line (1300 650 014).

### **Identifying the location of underground services**

Working near or around live electrical cables can be hazardous. **An on-site assessment is strongly recommended prior to undertaking ANY works and is necessary to determine the location of the underground services.** This can be undertaken by SA Power Networks or an alternative professional locating service provider. Enquiries can be made about SA Power Networks' cable location service by telephoning (08) 8292 0218.

Restrictions may apply in regard to your excavation particularly if your excavation is greater than 300mm below ground level and less than 3.0m from an SA Power Networks asset. Further explanation regarding restricted exclusion zones can be found at <http://www.sapowernetworks.com.au/public/download.jsp?id=1775> OR search sapowernetworks.com.au for NICC 404 and by referring to the figures on pages 10, 11 or 12.

Underground services in the vicinity of any proposed earthworks must be located by hand digging (pot-holing) prior to the commencement of the works. Persons conducting works will be held responsible for any resulting loss or damage to the services or associated infrastructure.

### **Working near high voltage 66kV underground cables**

Persons intending to conduct earthworks in the vicinity of an SA Power Networks high voltage 66kV underground cable MUST first obtain a site-specific clearance by contacting the SA Power Networks Cable Management Technical Officer on 0403 582 174.

### **Basis of information supply**

The accompanying information is supplied at the request of, and is only provided for use by, the requestor. The information is valid for 30 days from the date of issue.

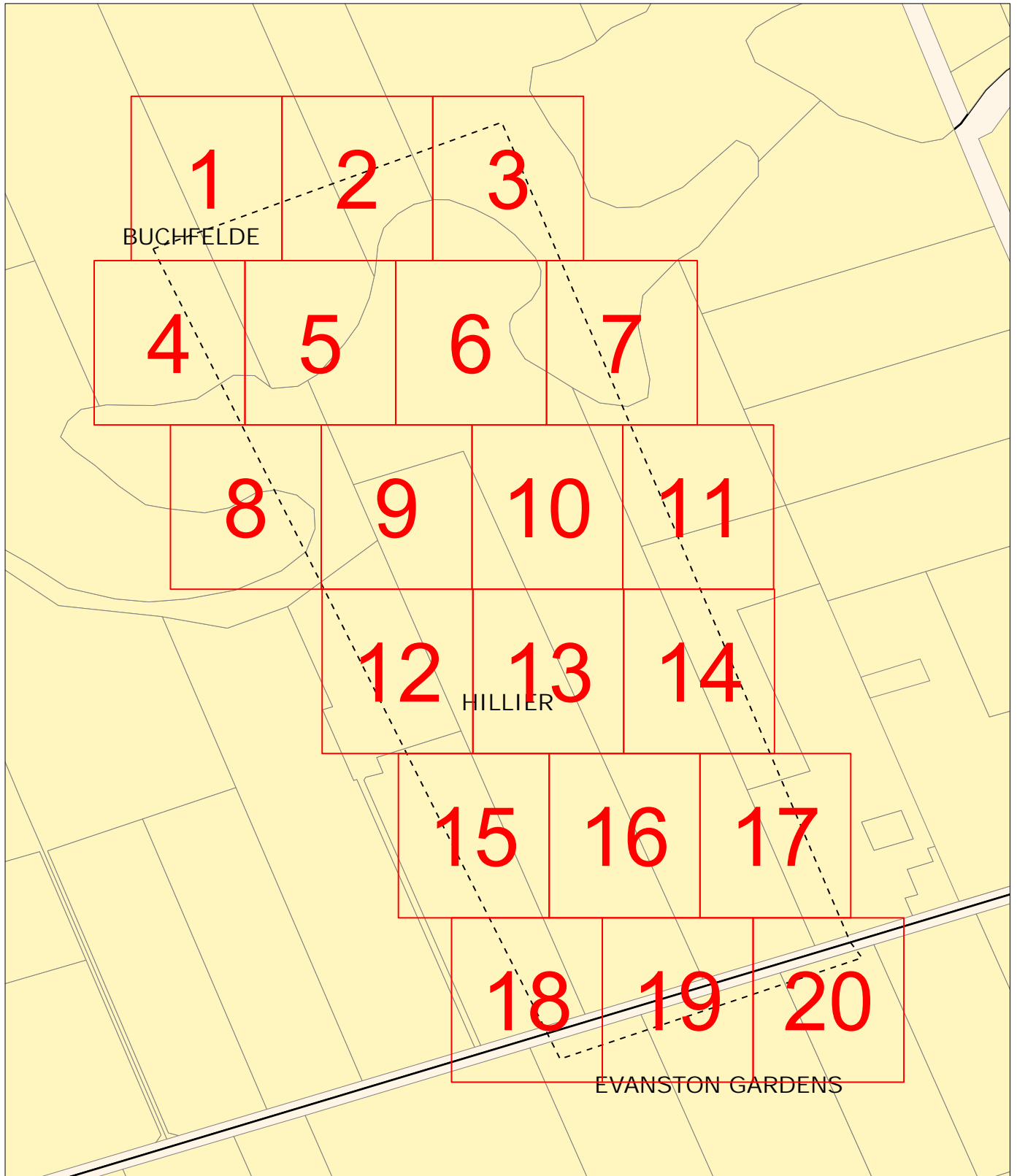
SA Power Networks, its employees, agents and contractors shall accept no responsibility for any inaccuracy or incompleteness in the information provided or liability in respect of any personal injury, death, loss or damage to any real or personal property or otherwise that arises out of or in connection with, directly or indirectly, the provision of or reliance upon the information.

It is the requestor's responsibility to ensure that the information provided accords with the area depicted on the requestor's Dial Before You Dig request. The information provided should not be used in respect of any area outside of the area depicted on the Dial Before You Dig request. SA Power Networks does not warrant that the information is suitable for the requestor's intended purposes.

**Any use of the accompanying information is subject to the requestor's agreement to the conditions contained in this document.** Upon acceptance of these conditions, SA Power Networks grants the requestor permission to use the information. The information must be returned to SA Power Networks if the conditions are not accepted.

***Important note: It is an offence under the Electricity Act 1996 (SA) to cause damage to or interfere with electrical infrastructure***

Date: 28/07/2022



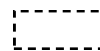
**Disclaimer:** The Plan/Sketch is supplied at your request and is subject to your agreement that SA Power Networks shall not be liable or responsible for the correctness or otherwise of any such information supplied pursuant to this request. Upon acceptance of this condition SA Power Networks grants you permission to use the Plan/Sketch as a guide to the location of SA Power Networks assets. The Plan/Sketch must be returned to SA Power Networks if you fail to accept the conditions of use.



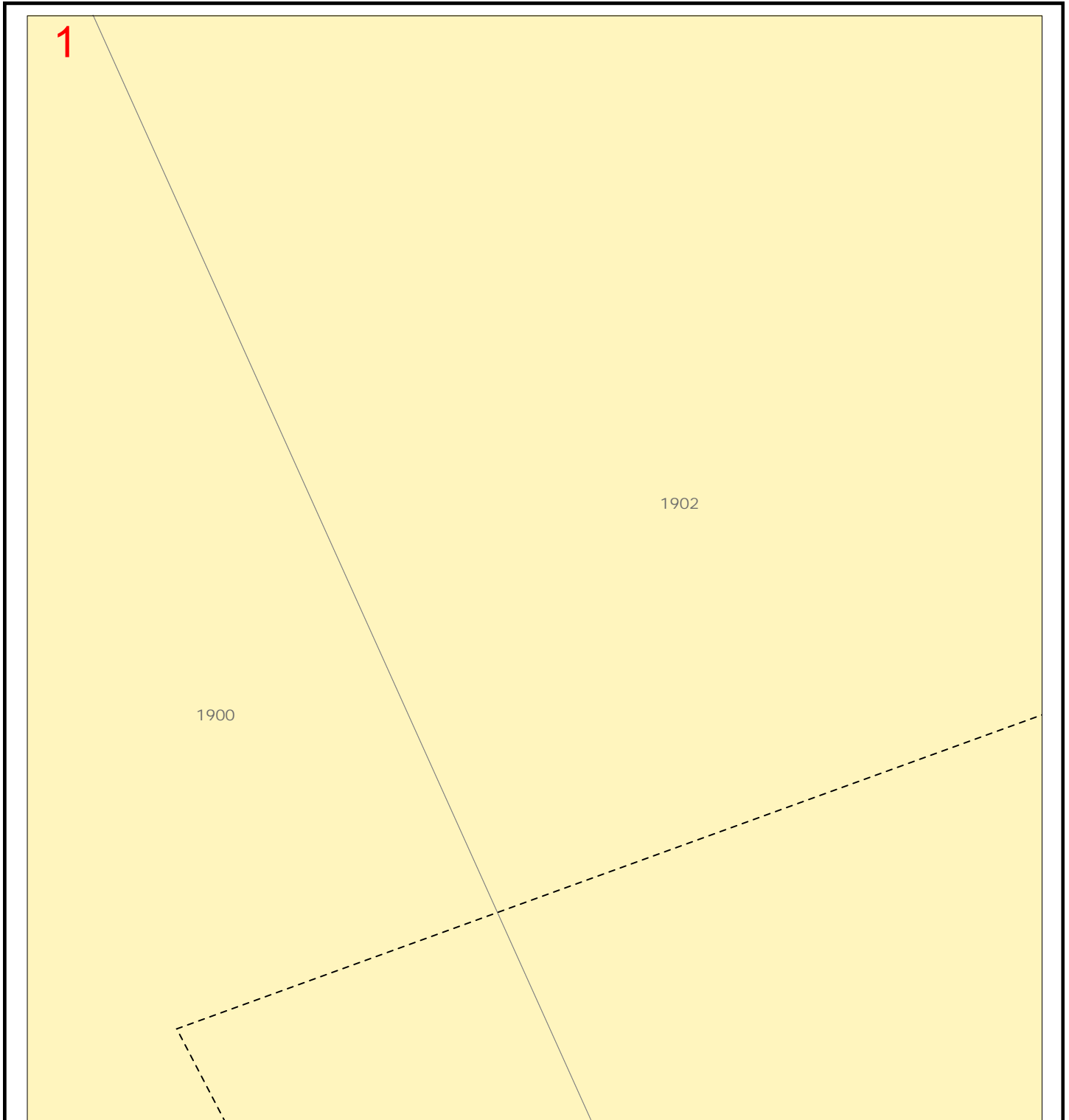
**LEGEND:**



Detail Map



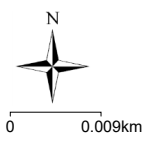
DBYD Requested Area

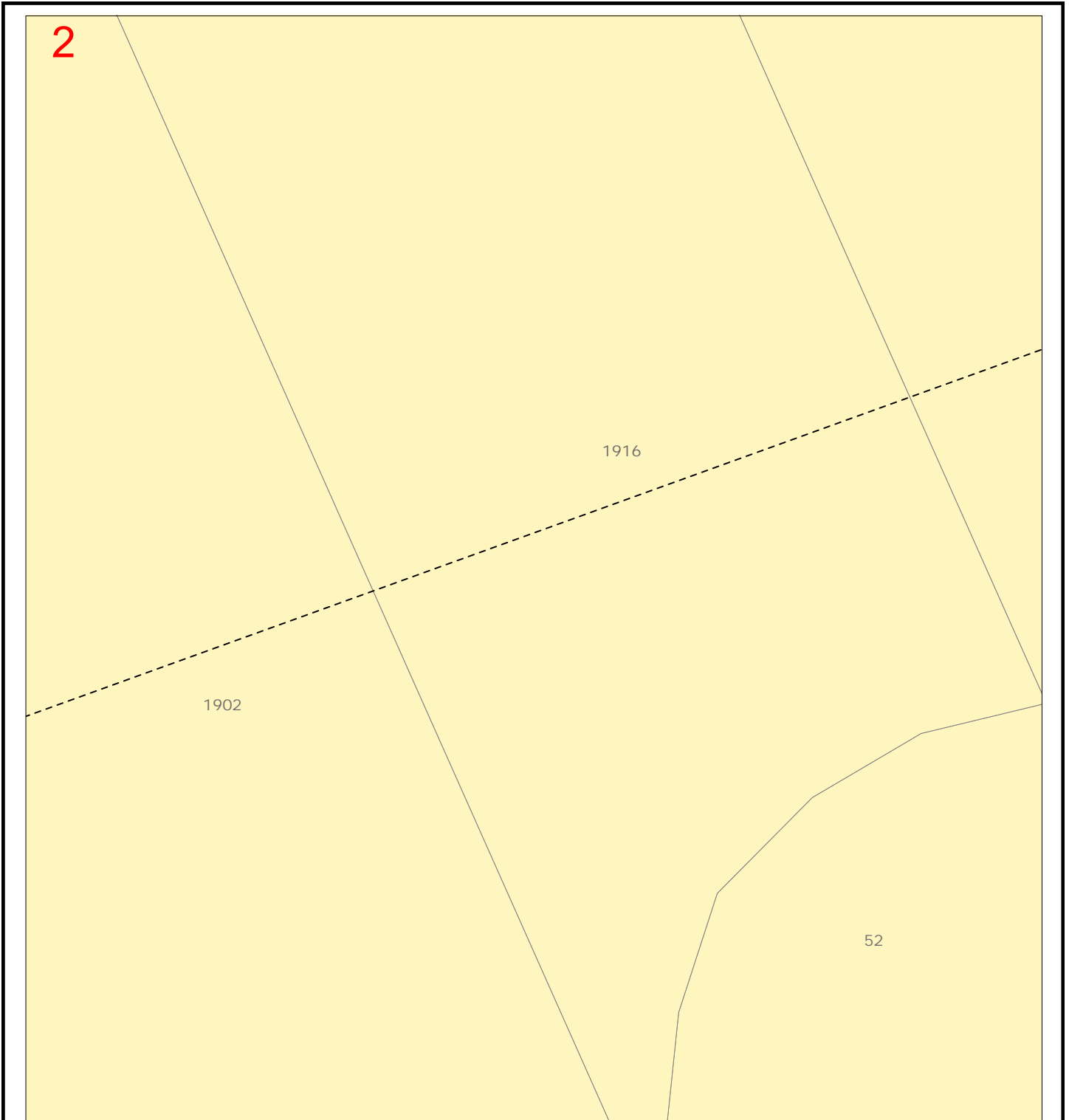


Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column





Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

**Cables**

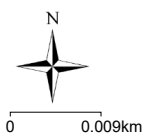
- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

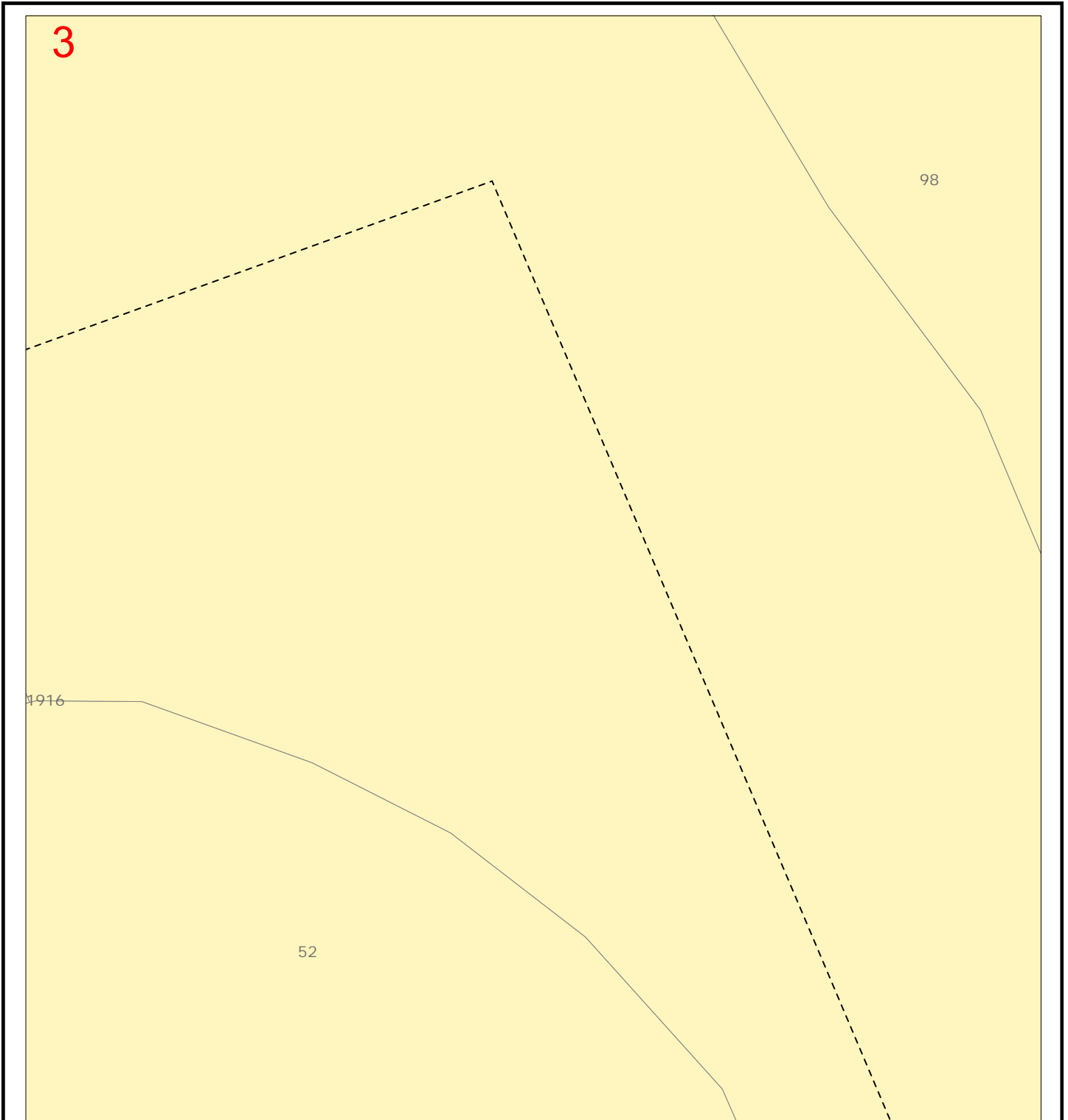
DBYD Requested Area

- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

Fibre Optic Cable/Duct

- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column

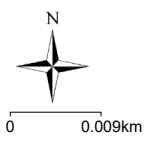


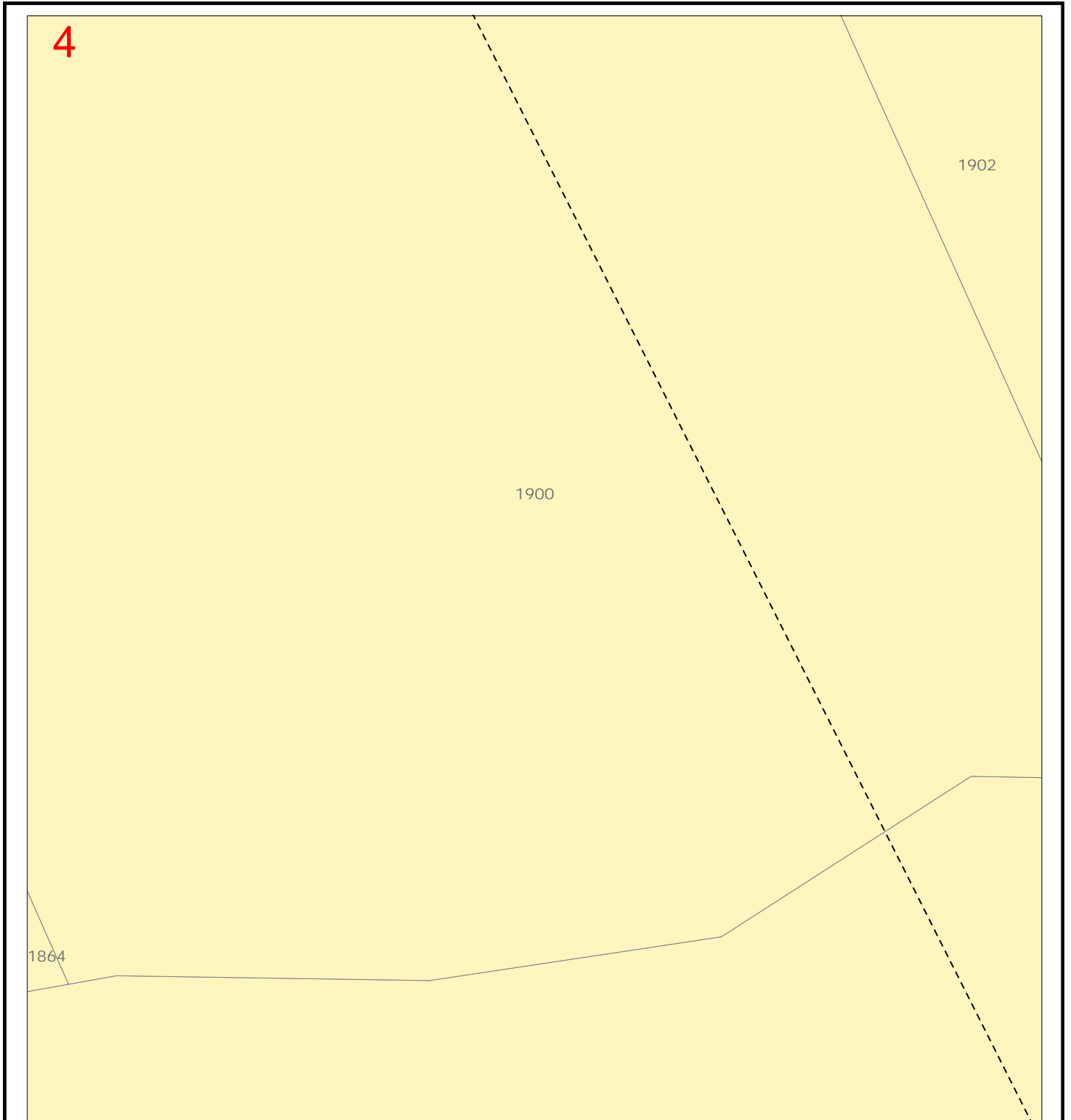


Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column





Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

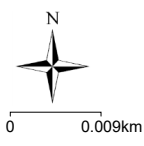
- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

**Cables**

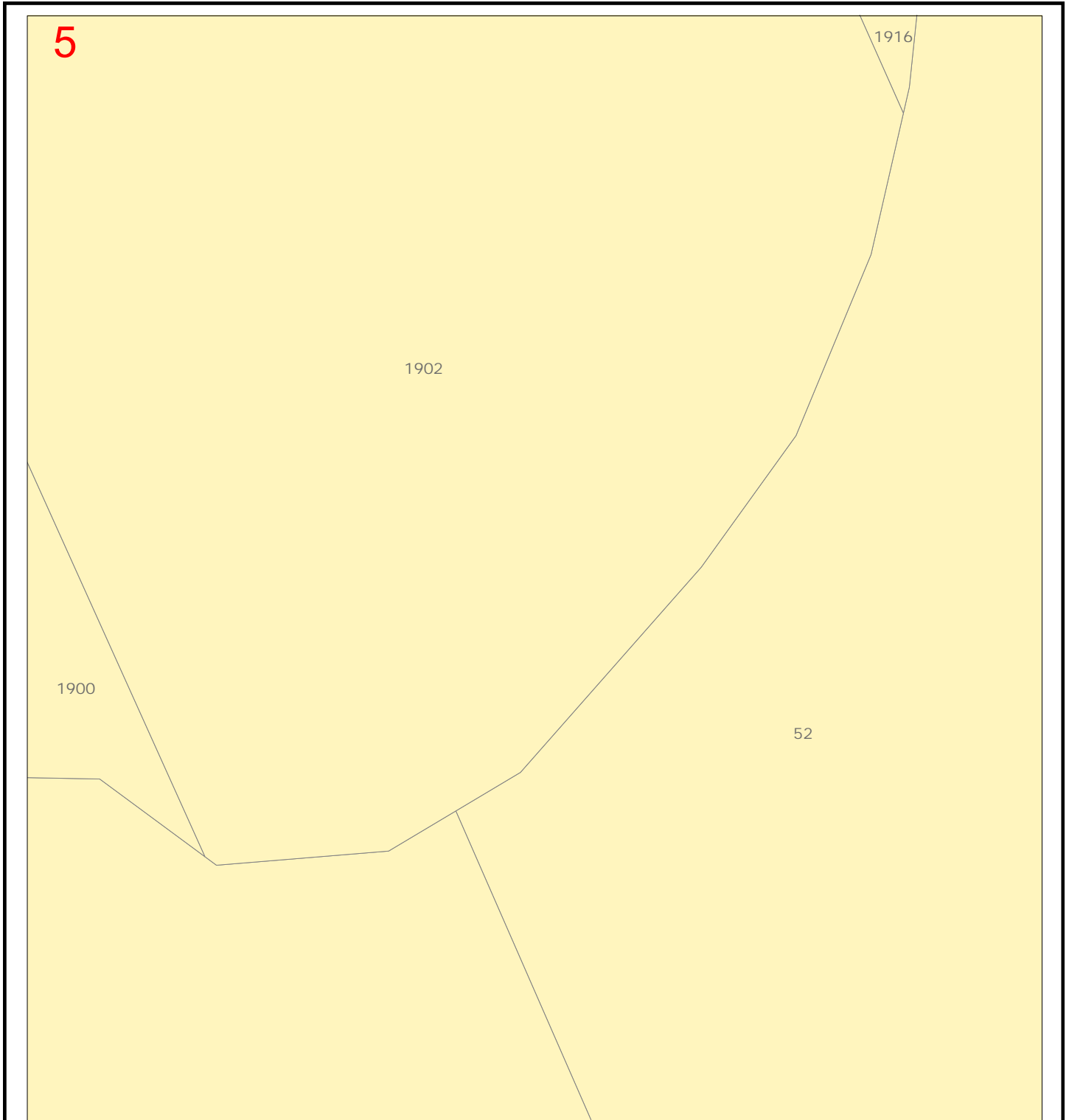
- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

- DBYD Requested Area
- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

- Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column



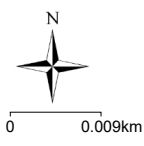




Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column



6

52

Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

**Cables**

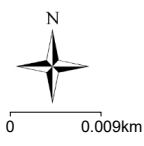
- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

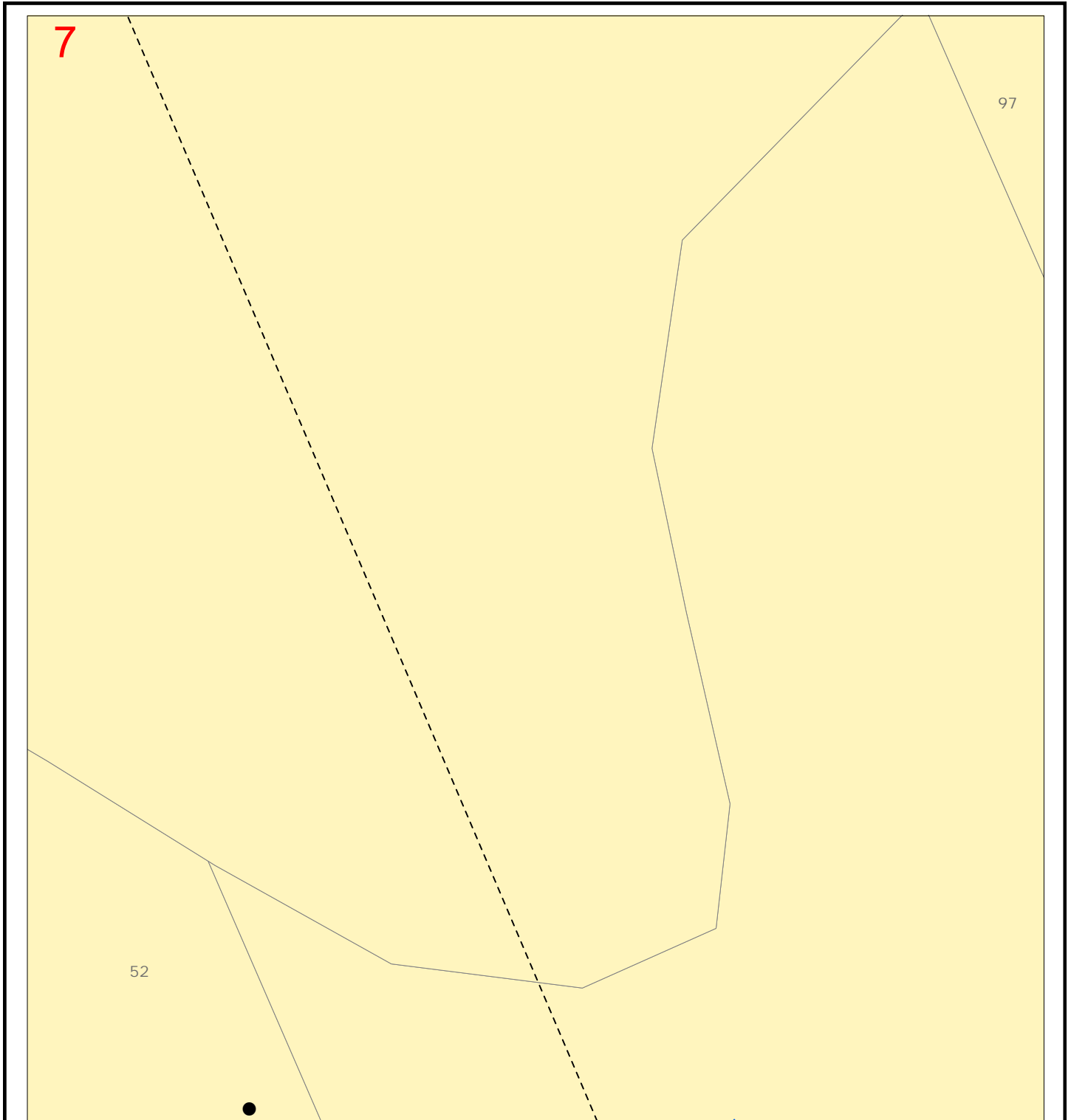
DBYD Requested Area

- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

Fibre Optic Cable/Duct

- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column

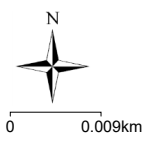




Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column



8

1864

90

Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

**Cables**

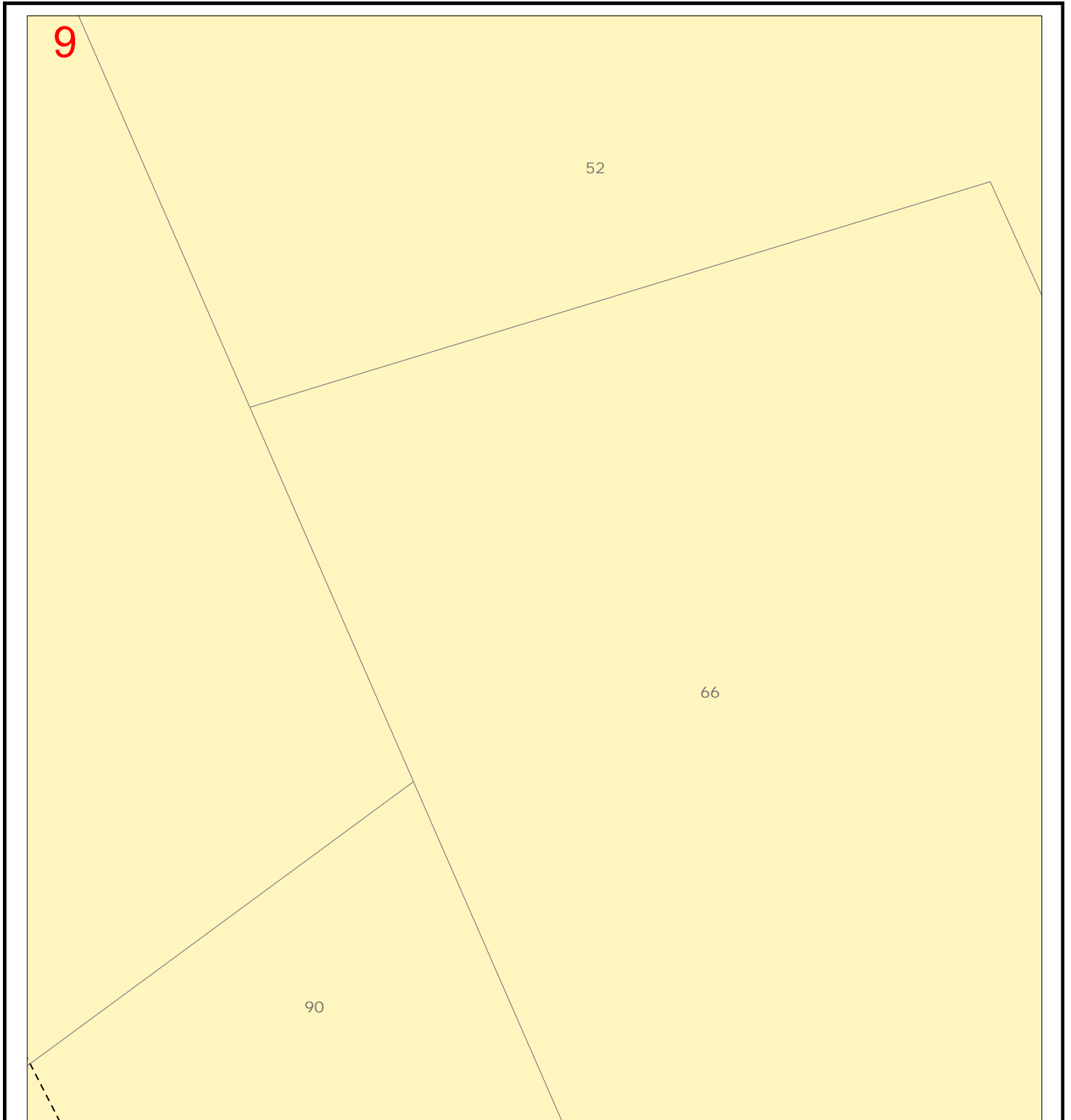
- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

- DBYD Requested Area
- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

- Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column



0 0.009km



Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

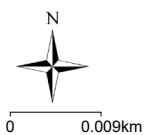
- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

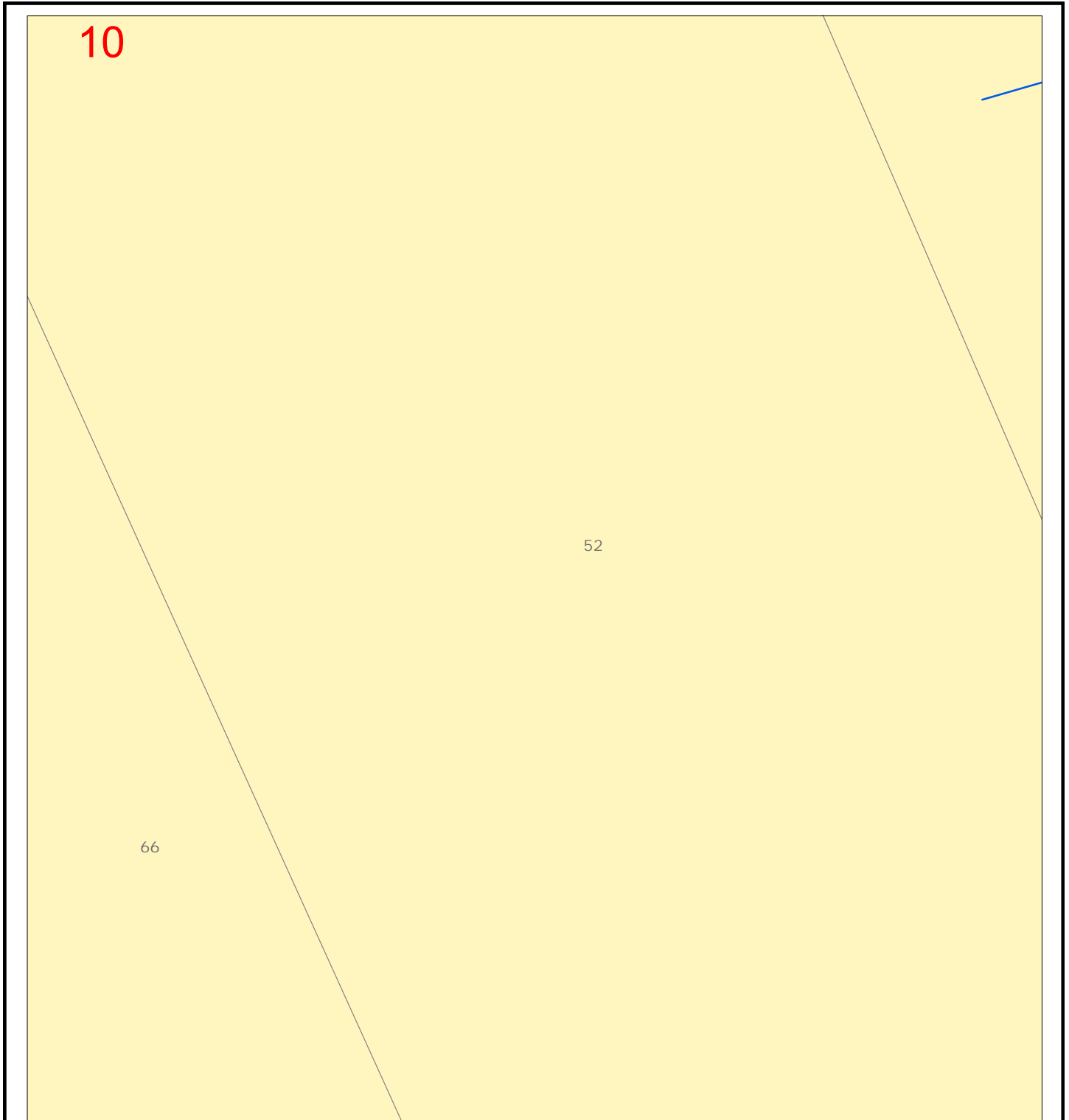
**Cables**

- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

- DBYD Requested Area
- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

- Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column





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**LEGEND:**

**Cable Exits**

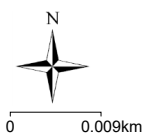
- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

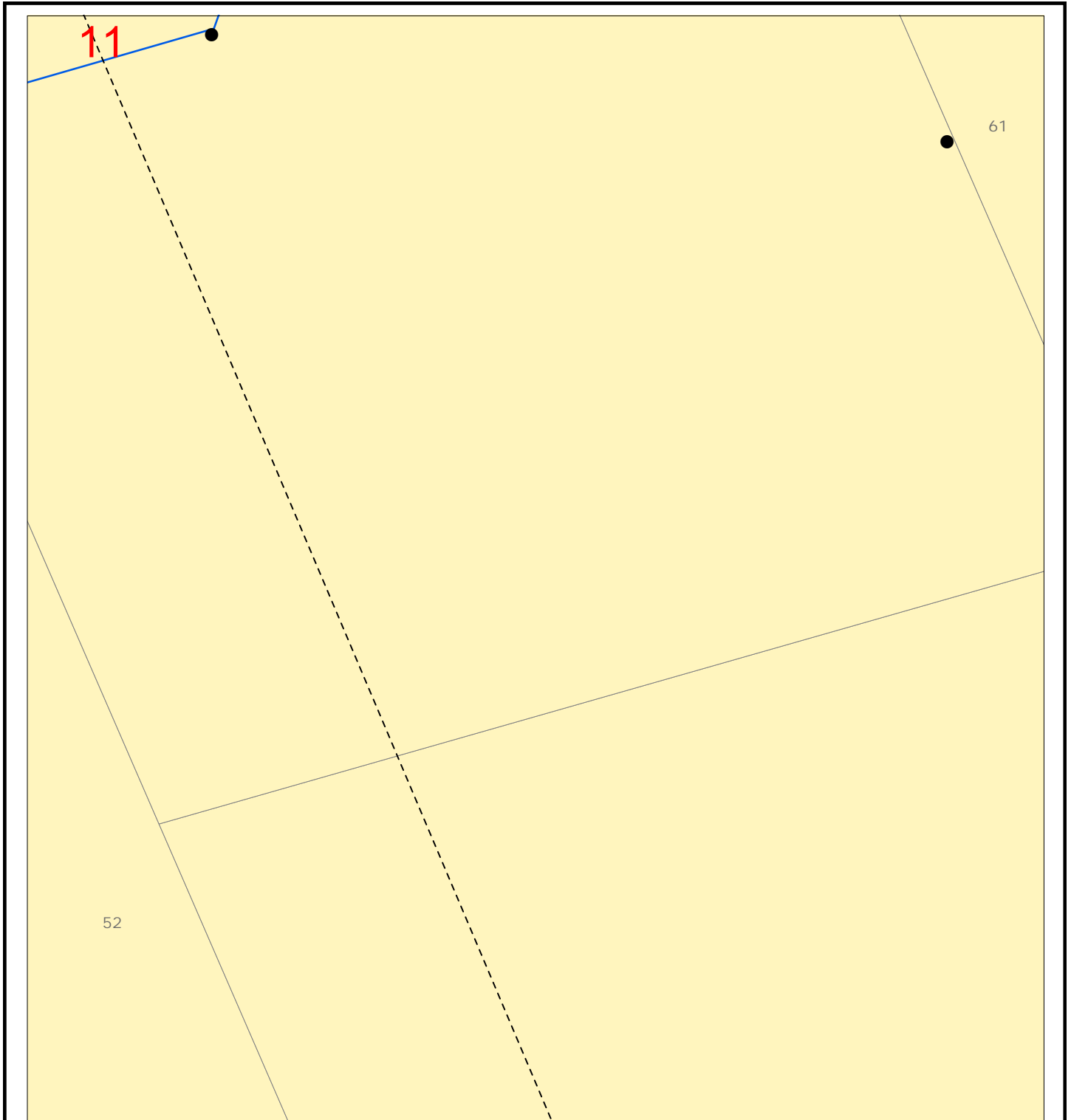
**Cables**

- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

- DBYD Requested Area
- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

- Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column

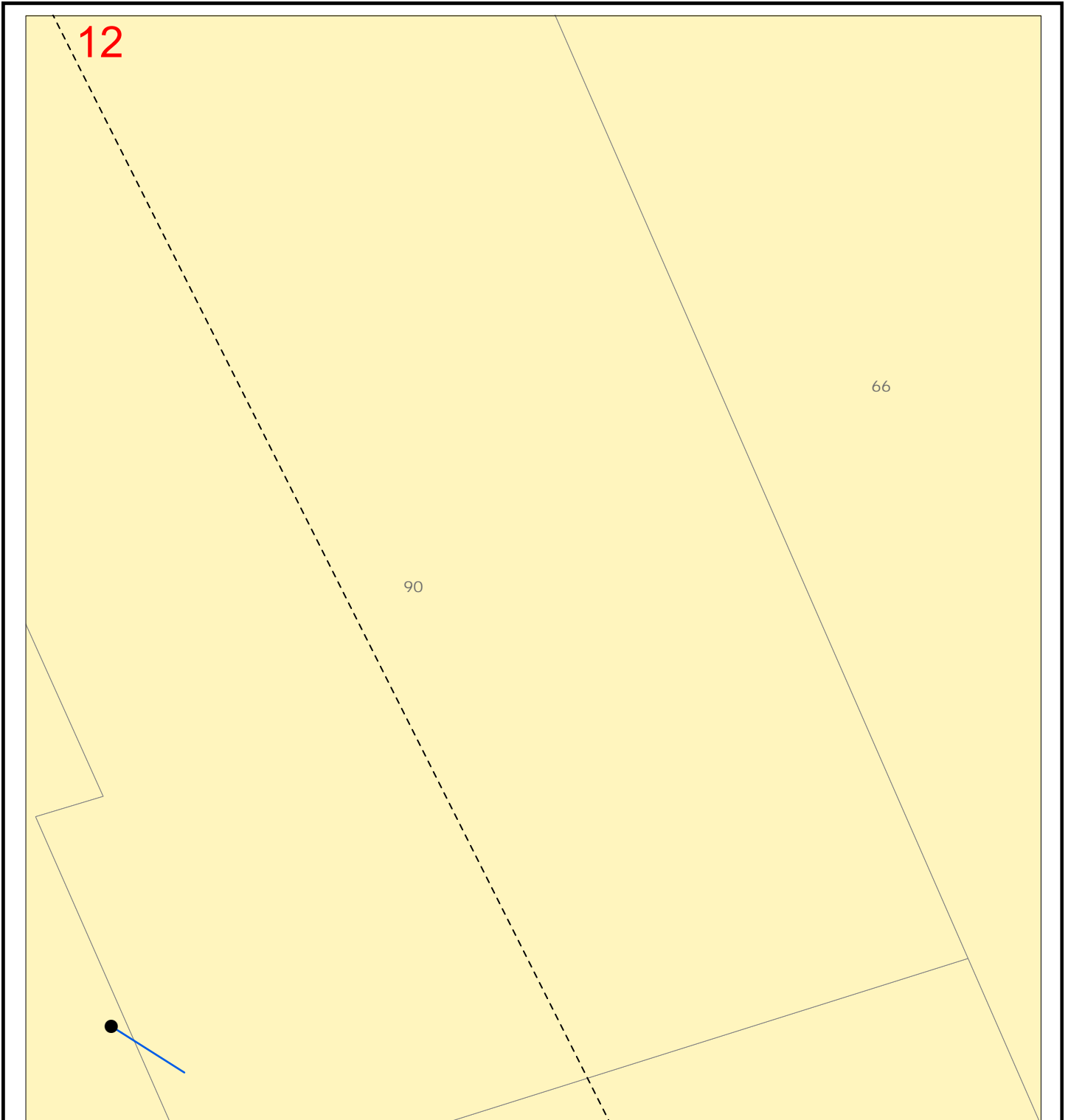




Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

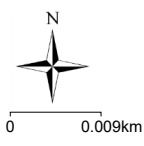
Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column



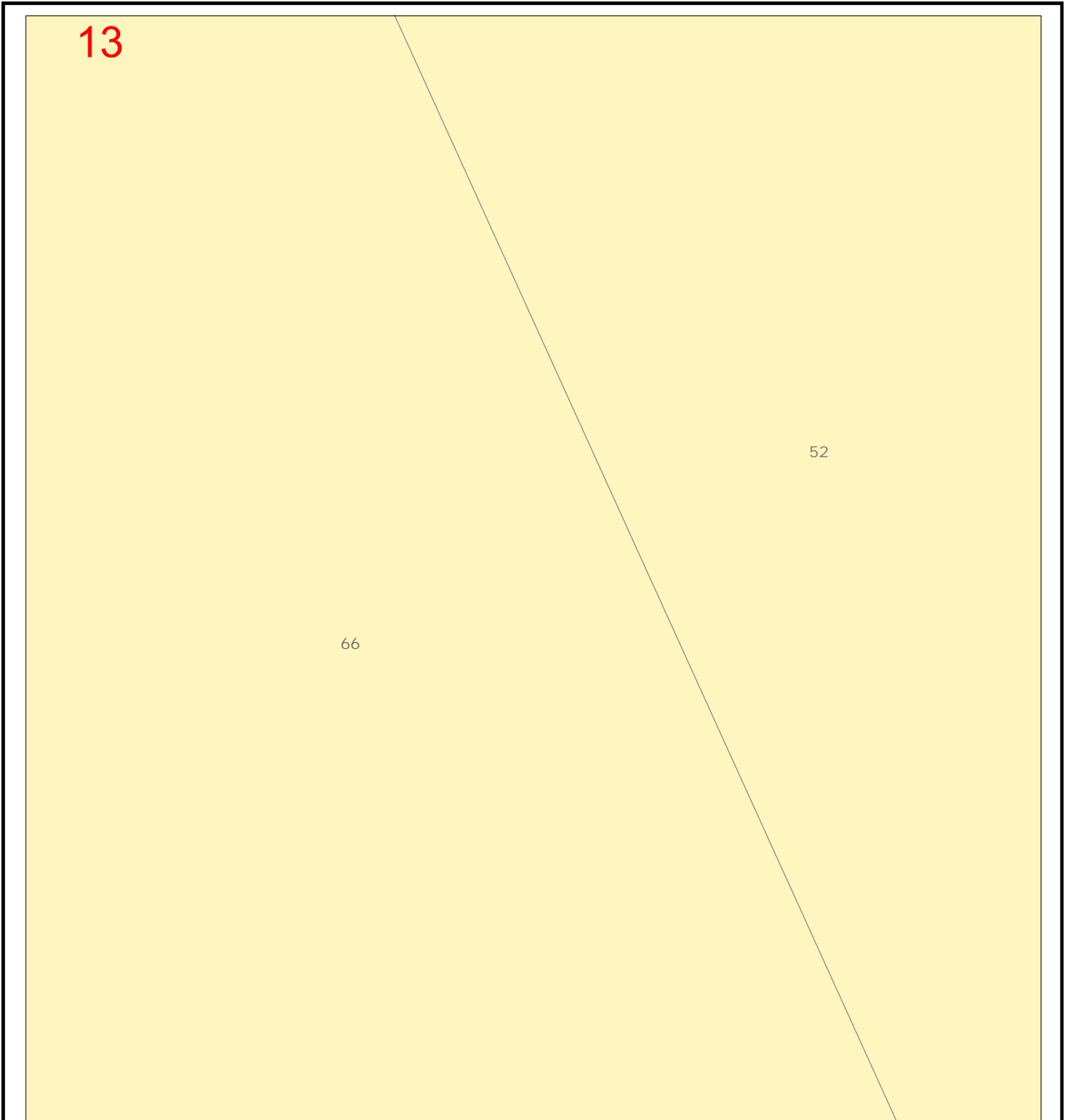
Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column







Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

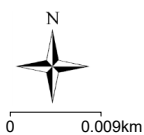
- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

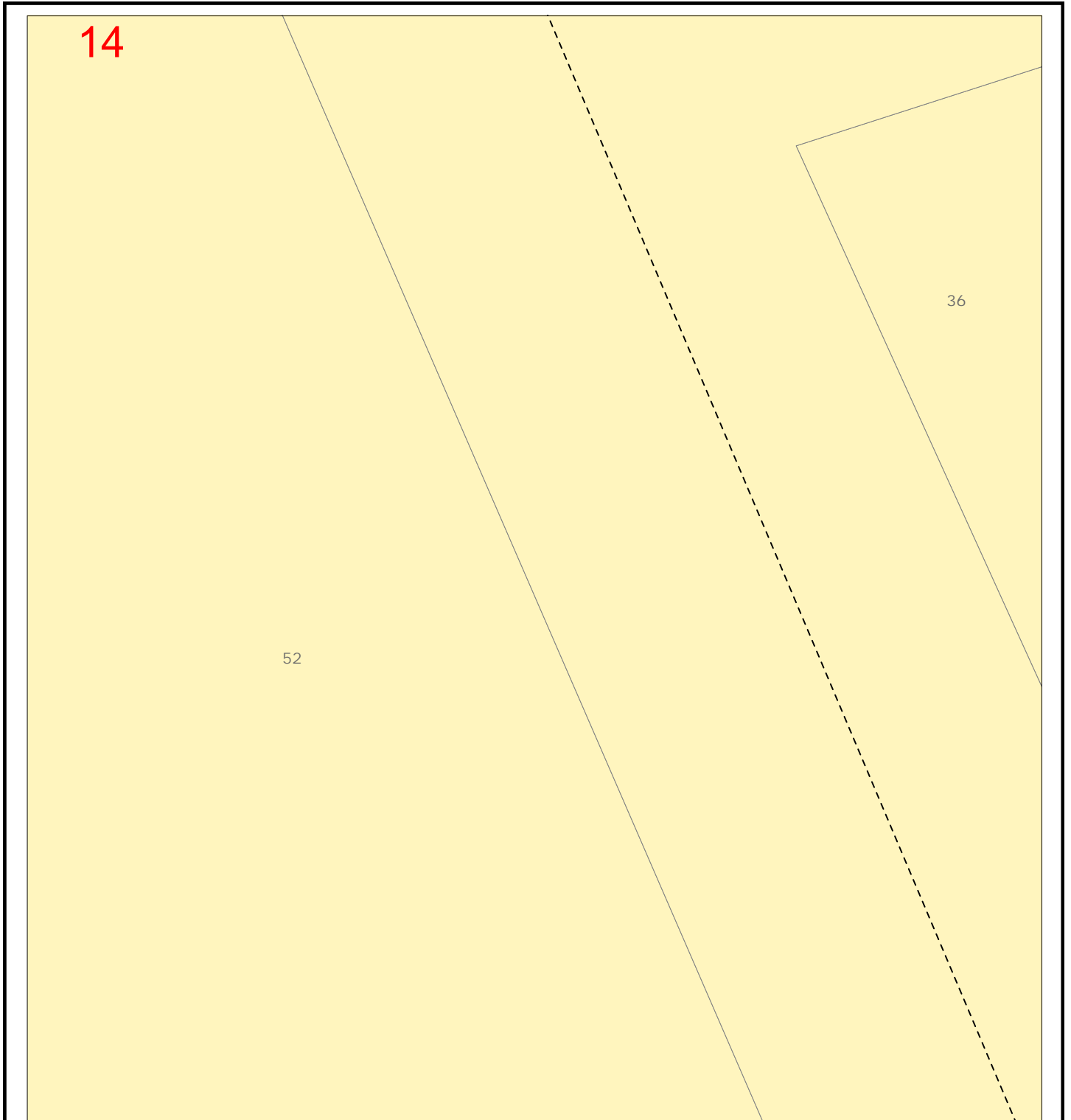
**Cables**

- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

- DBYD Requested Area
- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- Earthing Grid

- Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column





Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

**Cables**

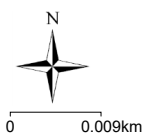
- ~ 66kV/132kV
- ~ 33kV
- ~ 19kV
- ~ 11kV
- ~ 7.6kV
- ~ Not In Service
- ~ Low Voltage

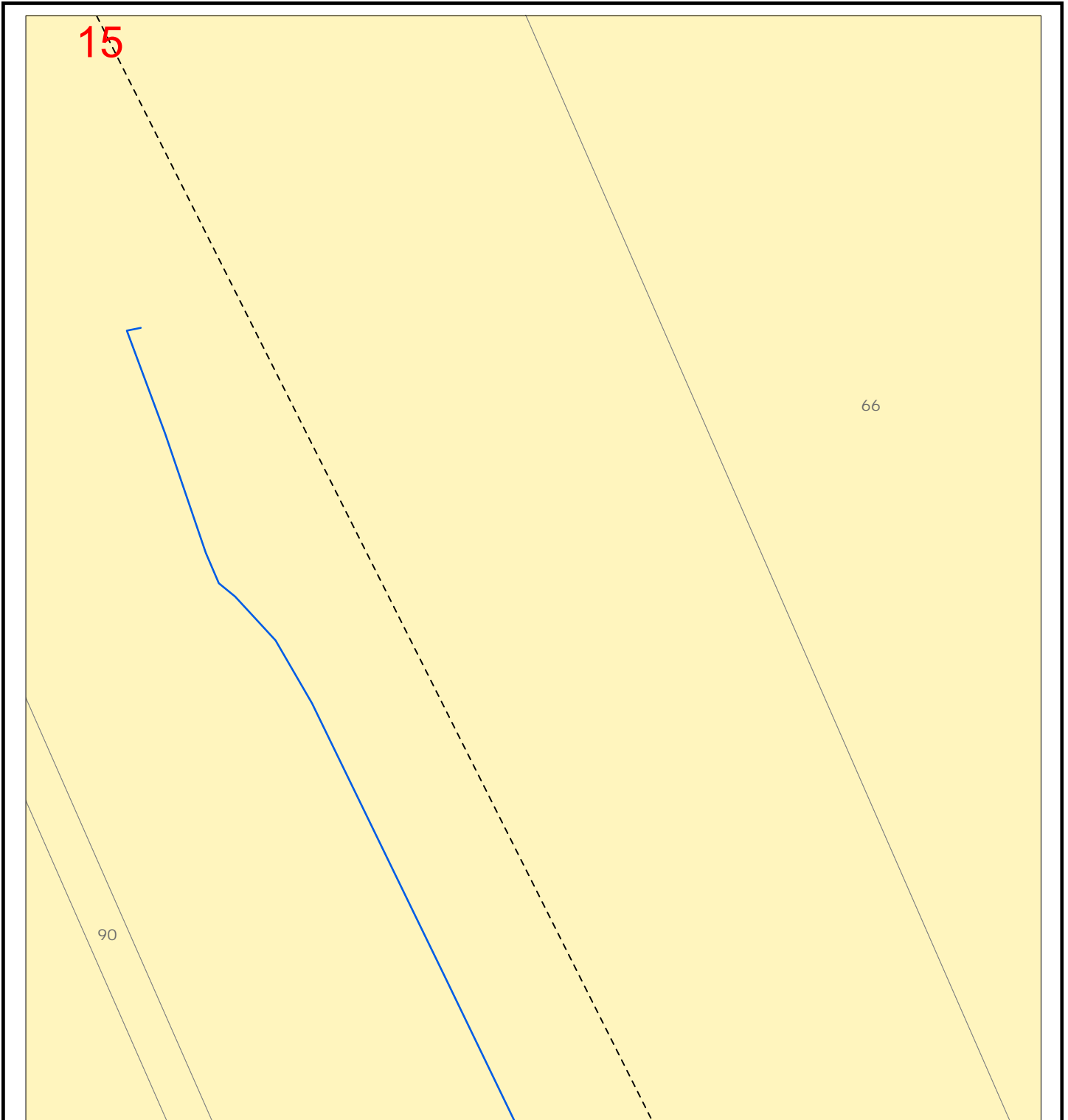
⬜ DBYD Requested Area

- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- ⊗ Earthing Grid

~ Fibre Optic Cable/Duct

- Fibre Manhole/Pit
- ~ Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column

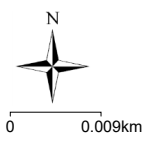


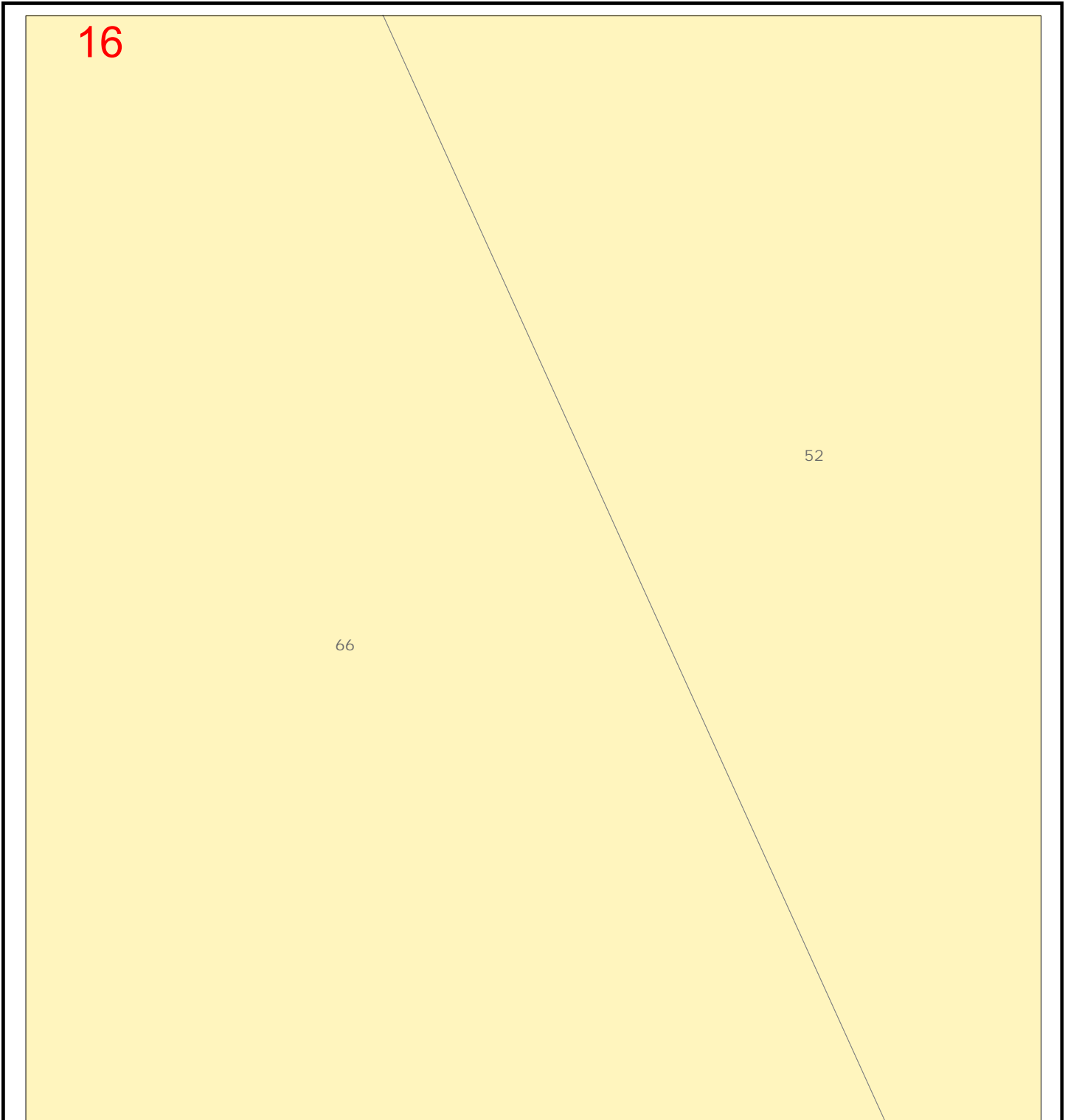


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**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column





Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

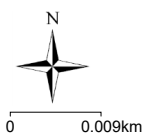
- ▼ 66kV/132kV
- ▼ 33kV
- ▼ 19kV
- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

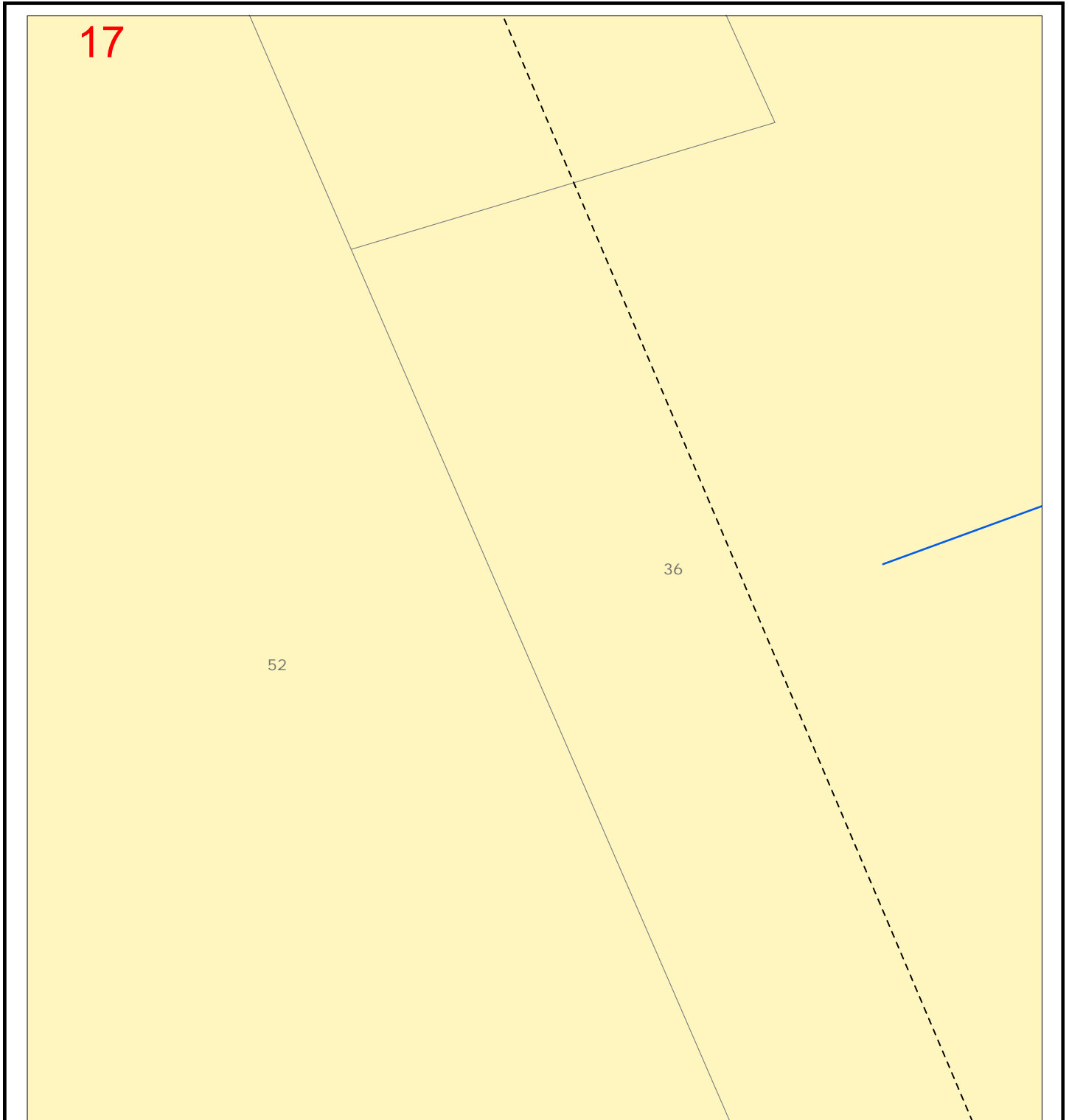
**Cables**

- ↗ 66kV/132kV
- ↗ 33kV
- ↗ 19kV
- ↗ 11kV
- ↗ 7.6kV
- ↗ Not In Service
- ↗ Low Voltage

- ▭ DBYD Requested Area
- HV Switching Cubicle
- Transformer Cubicle
- Cable Joint Bay
- LV Switching Cubicle/Pit
- Service Pit/Pillar
- ⊗ Earthing Grid

- ↗ Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- ↗ Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column





Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

**Cable Exits**

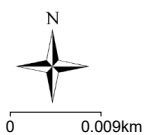
- ▼ 66kV/132kV
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- ▼ 11kV
- ▼ 7.6kV
- ▼ Not In Service
- ▼ Low Voltage

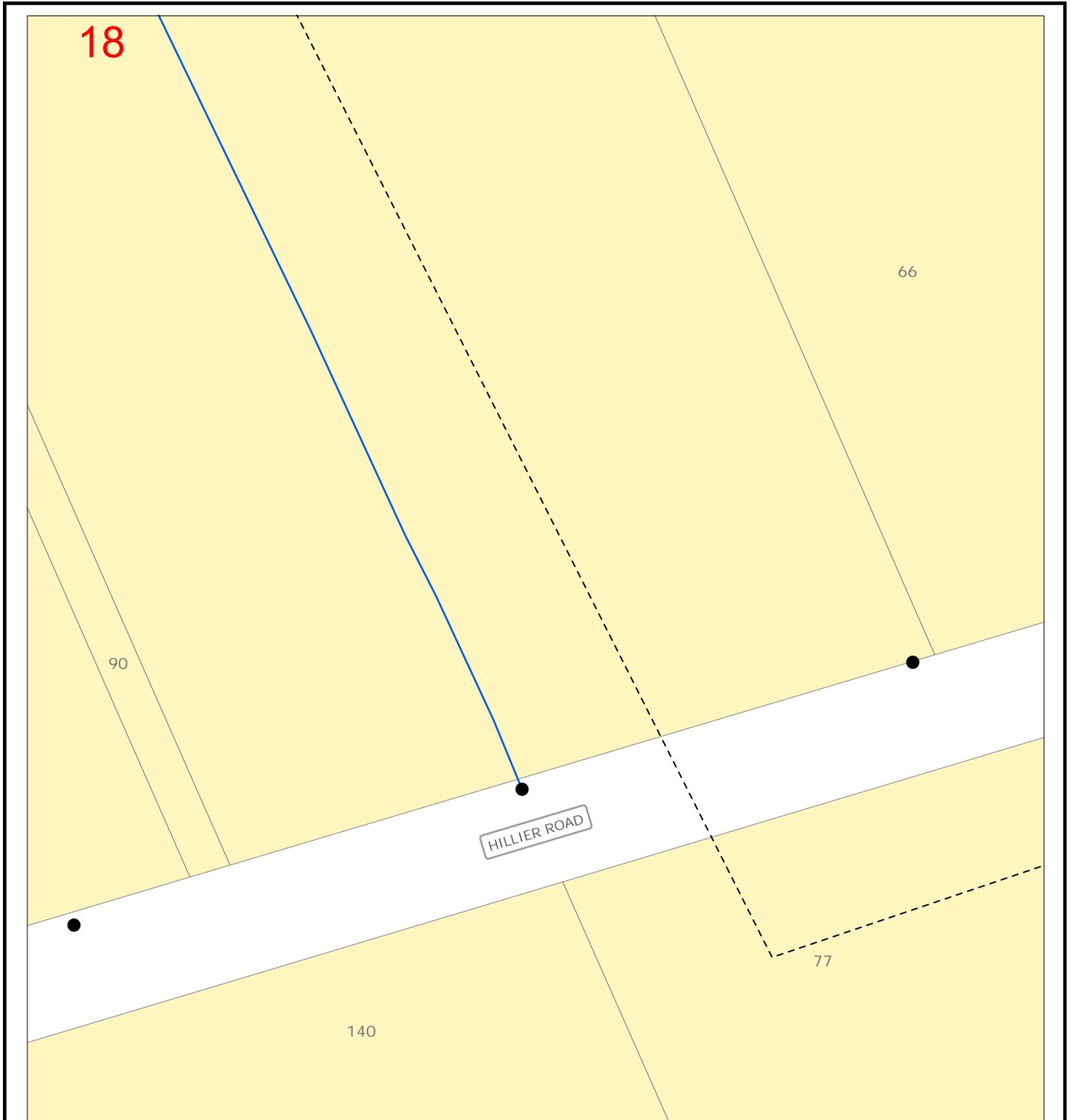
**Cables**

- 66kV/132kV
- 33kV
- 19kV
- 11kV
- 7.6kV
- Not In Service
- Low Voltage

- ⬜ DBYD Requested Area
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- LV Switching Cubicle/Pit
- Service Pit/Pillar
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- Fibre Optic Cable/Duct
- Fibre Manhole/Pit
- Pilot Cable
- Pilot Manhole/Pit
- Substation
- Electricity Pole
- Light Column

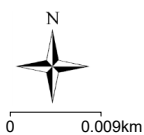


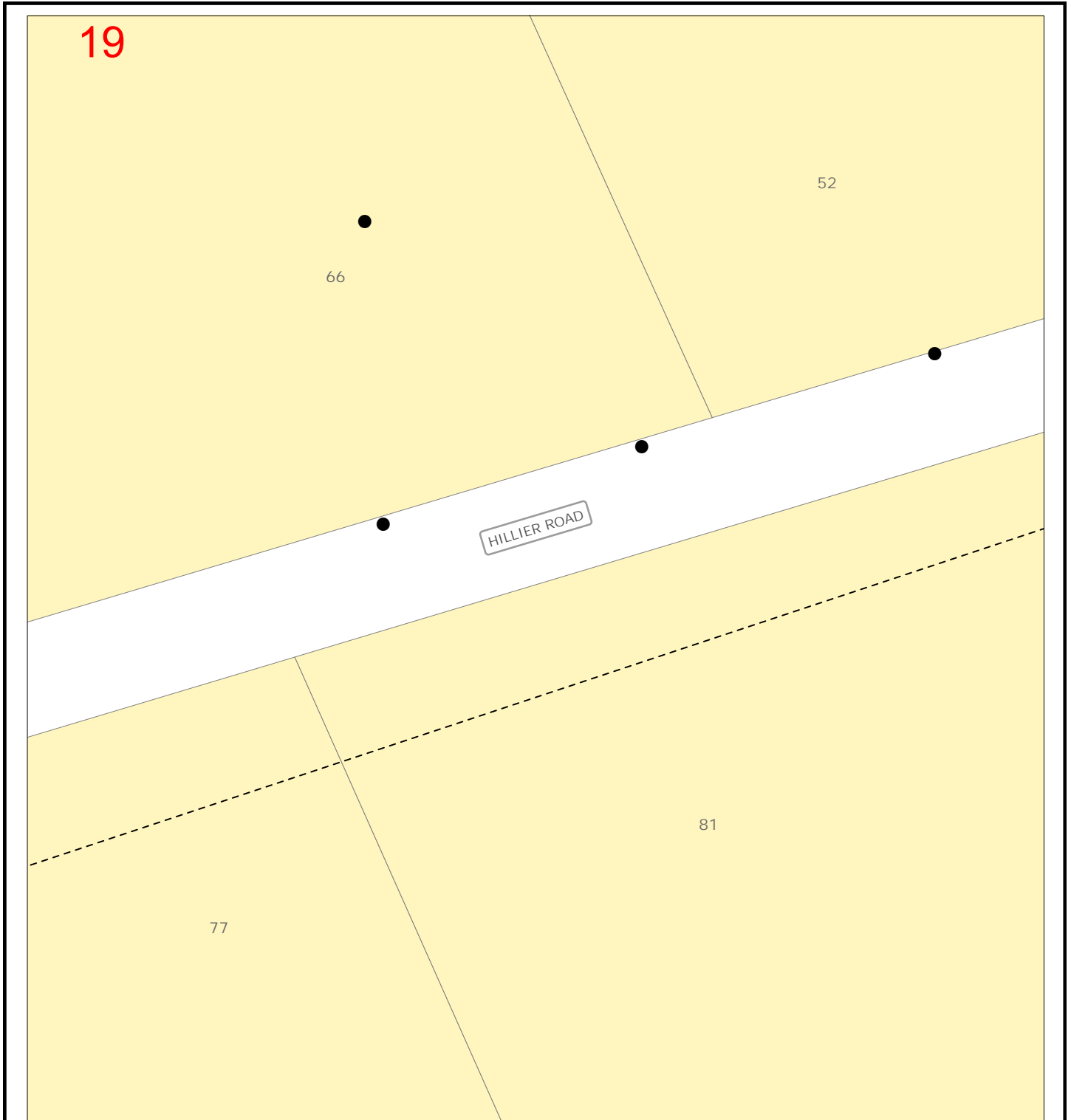


Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column

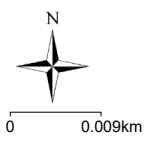


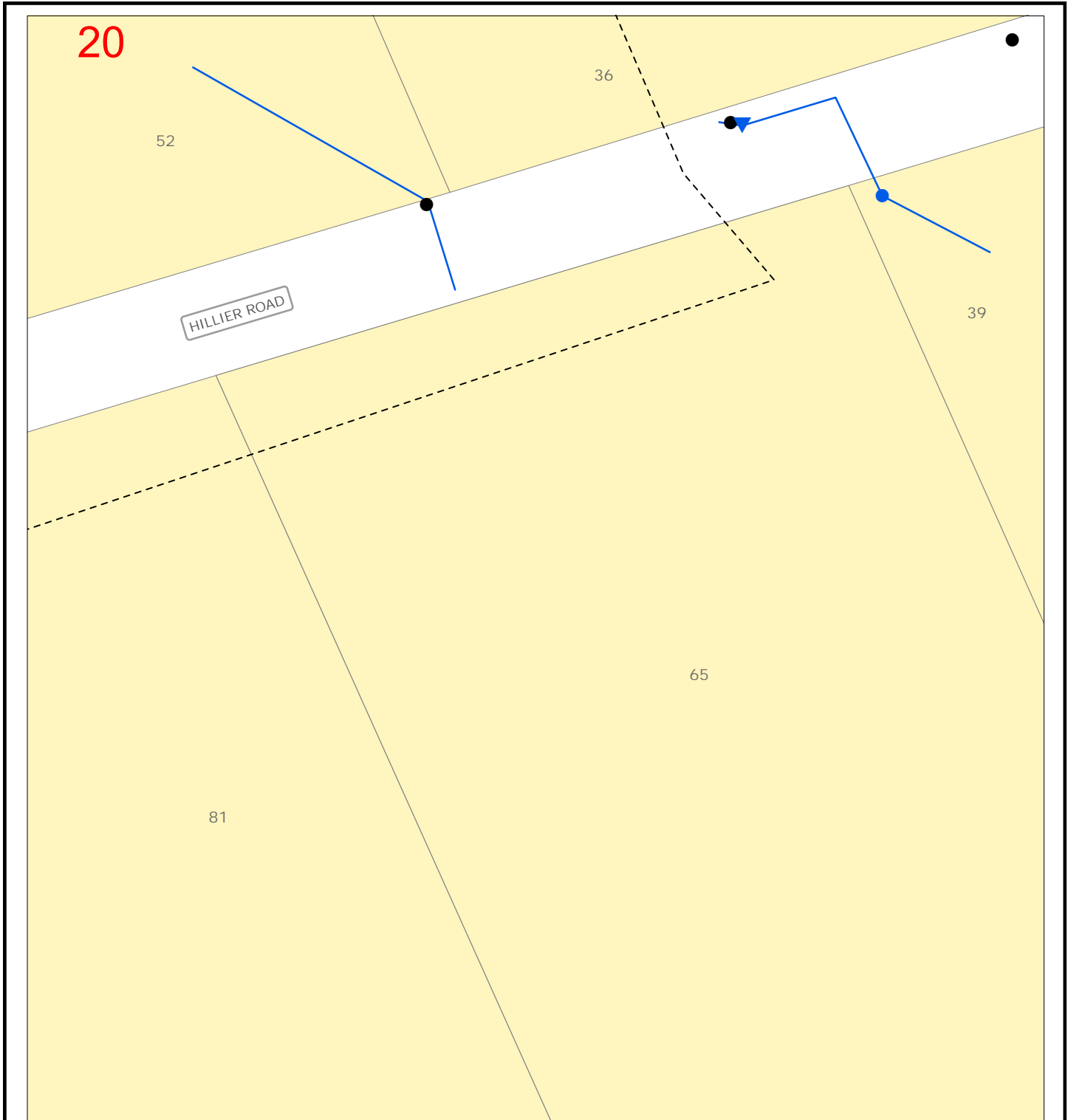


Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column

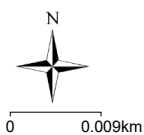




Note: The presence of lighting columns and cable exits may indicate unidentified additional cables.

**LEGEND:**

Cable Exits		Cables			
	66kV/132kV		66kV/132kV		DBYD Requested Area
	33kV		33kV		HV Switching Cubicle
	19kV		19kV		Transformer Cubicle
	11kV		11kV		Cable Joint Bay
	7.6kV		7.6kV		LV Switching Cubicle/Pit
	Not In Service		Not In Service		Service Pit/Pillar
	Low Voltage		Low Voltage		Earthing Grid
					Fibre Optic Cable/Duct
					Fibre Manhole/Pit
					Pilot Cable
					Pilot Manhole/Pit
					Substation
					Electricity Pole
					Light Column






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# APPENDIX E

## NBN DBYD PLANS

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**To:** Genevieve Virgara  
**Phone:** Not Supplied  
**Fax:** Not Supplied  
**Email:** genevieve.virgara@fyfe.com.au

<b>Dial before you dig Job #:</b>	32416866	
<b>Sequence #</b>	214155707	
<b>Issue Date:</b>	28/07/2022	
<b>Location:</b>	Lot 5 Hillier Road , Hillier , SA , 5116	

## Indicative Plans

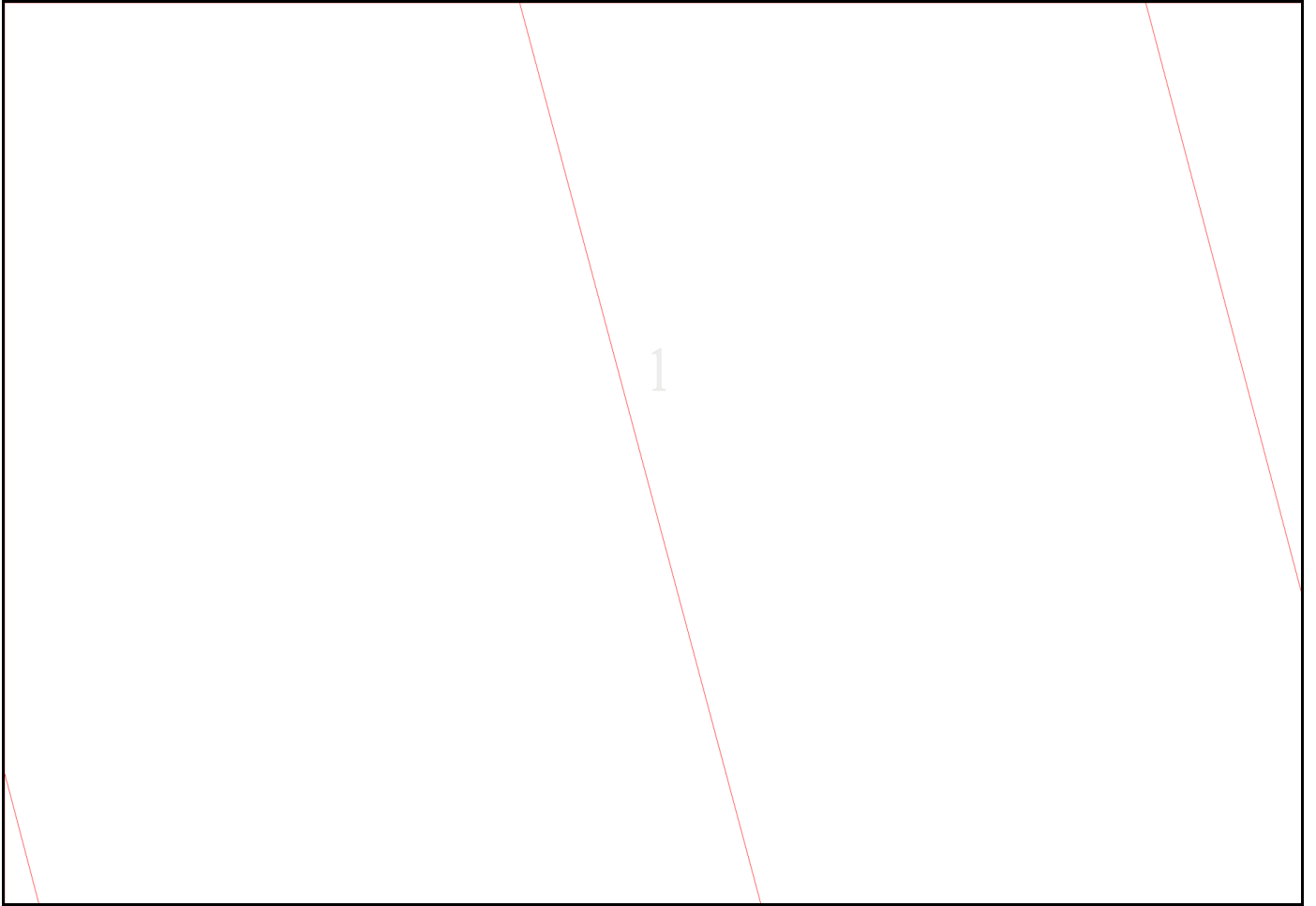
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4	11	18
5	12	19
6	13	20
7	14	21

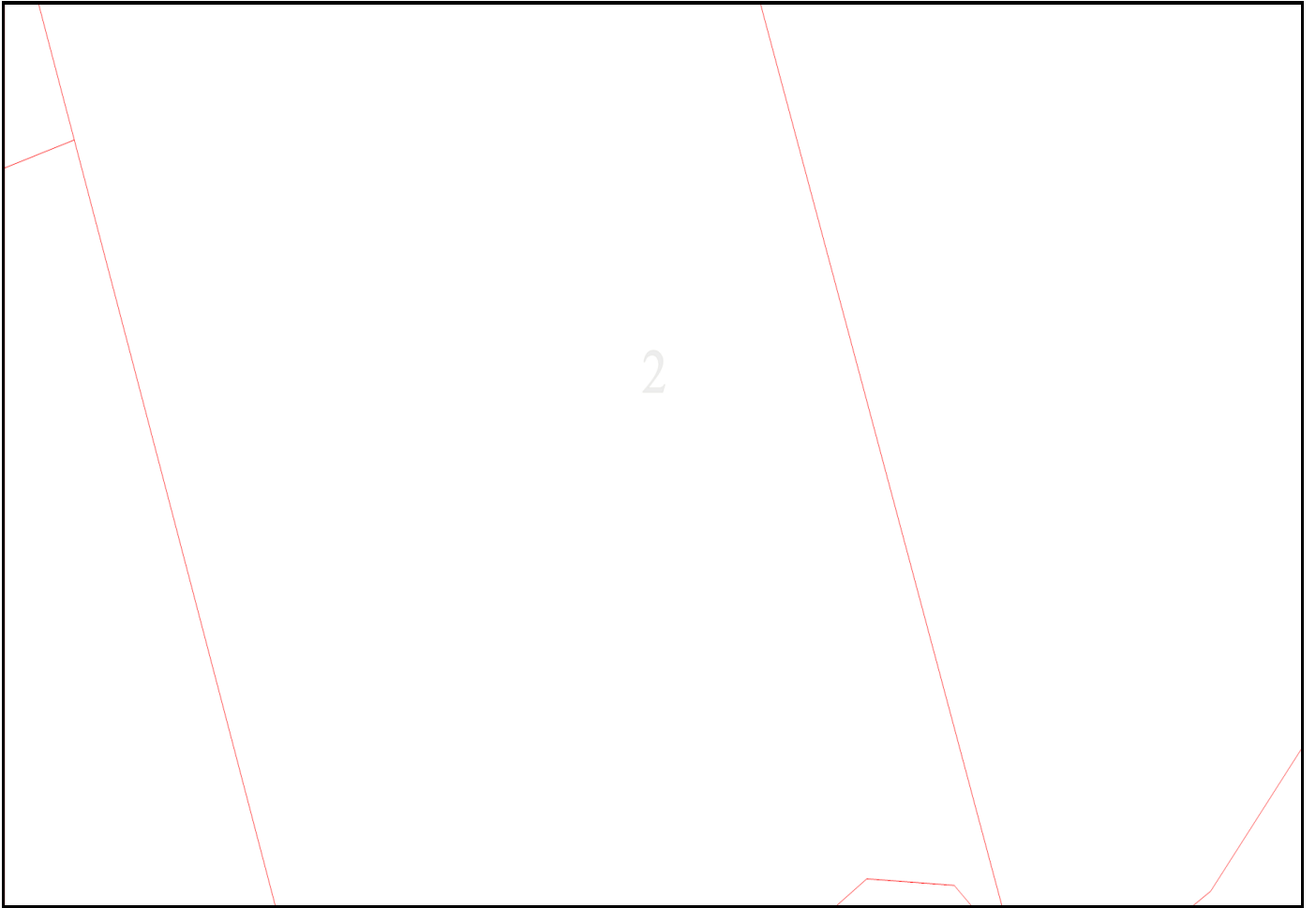


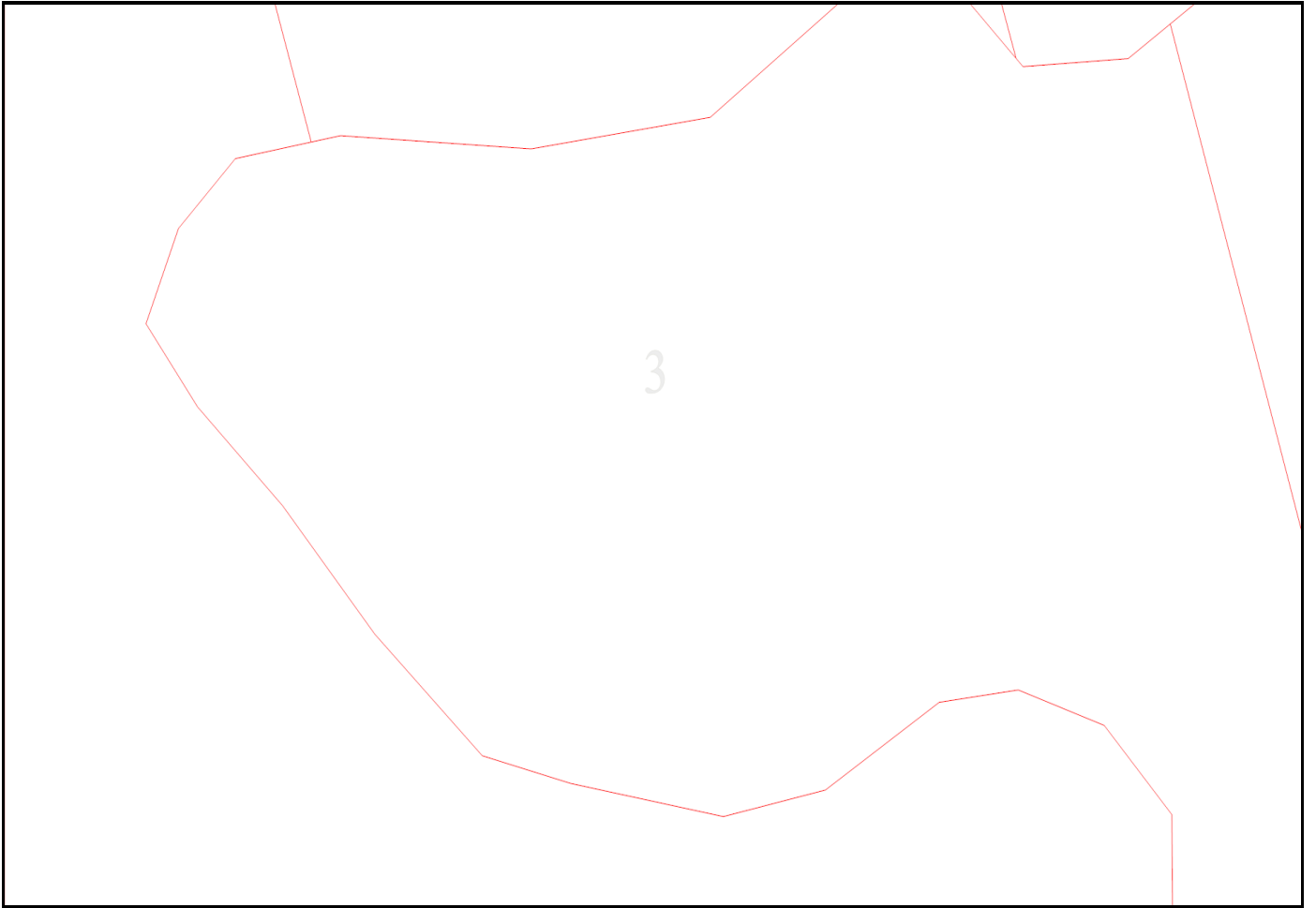
## LEGEND

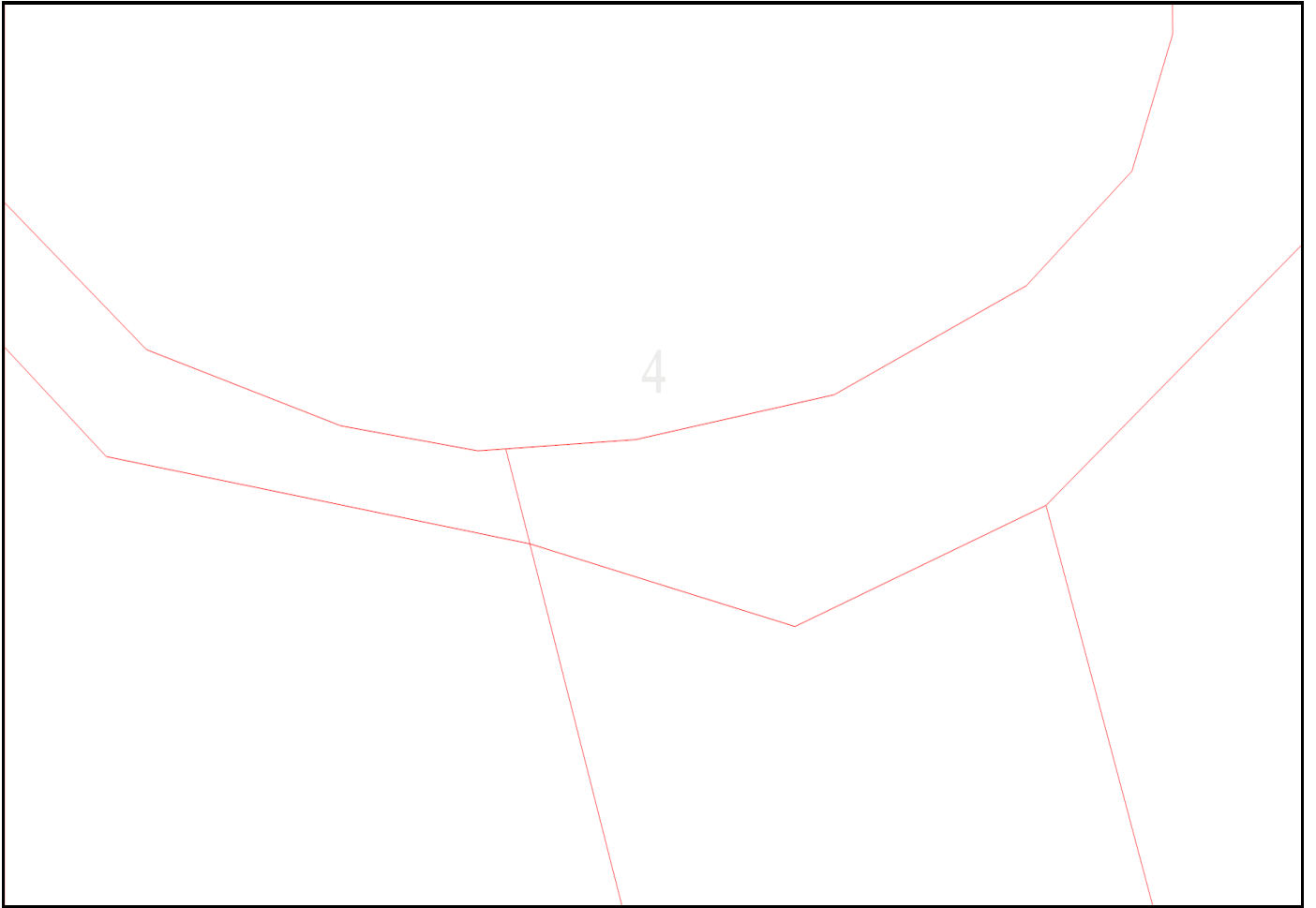


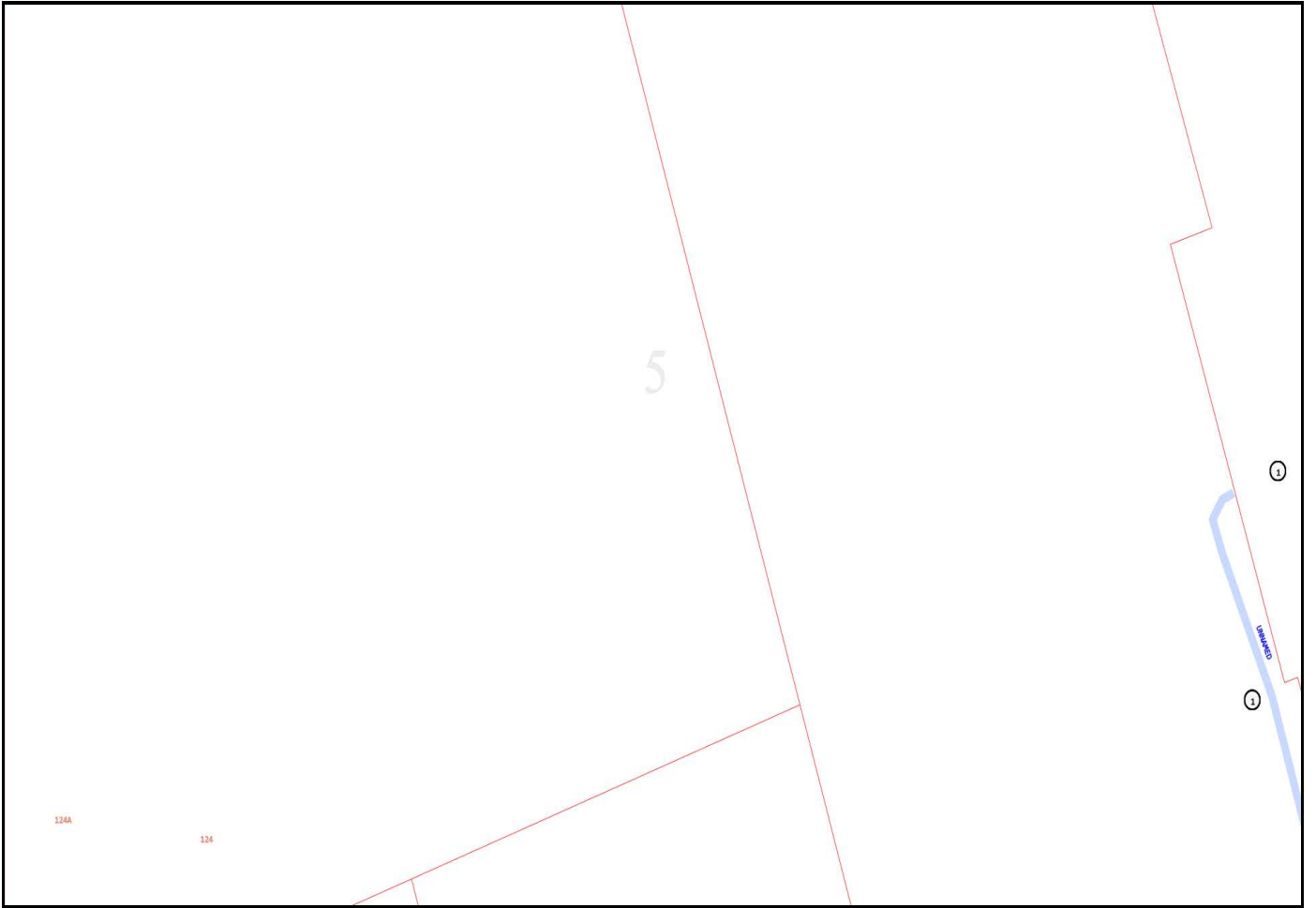
	Parcel and the location
	Pit with size "5"
	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40)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



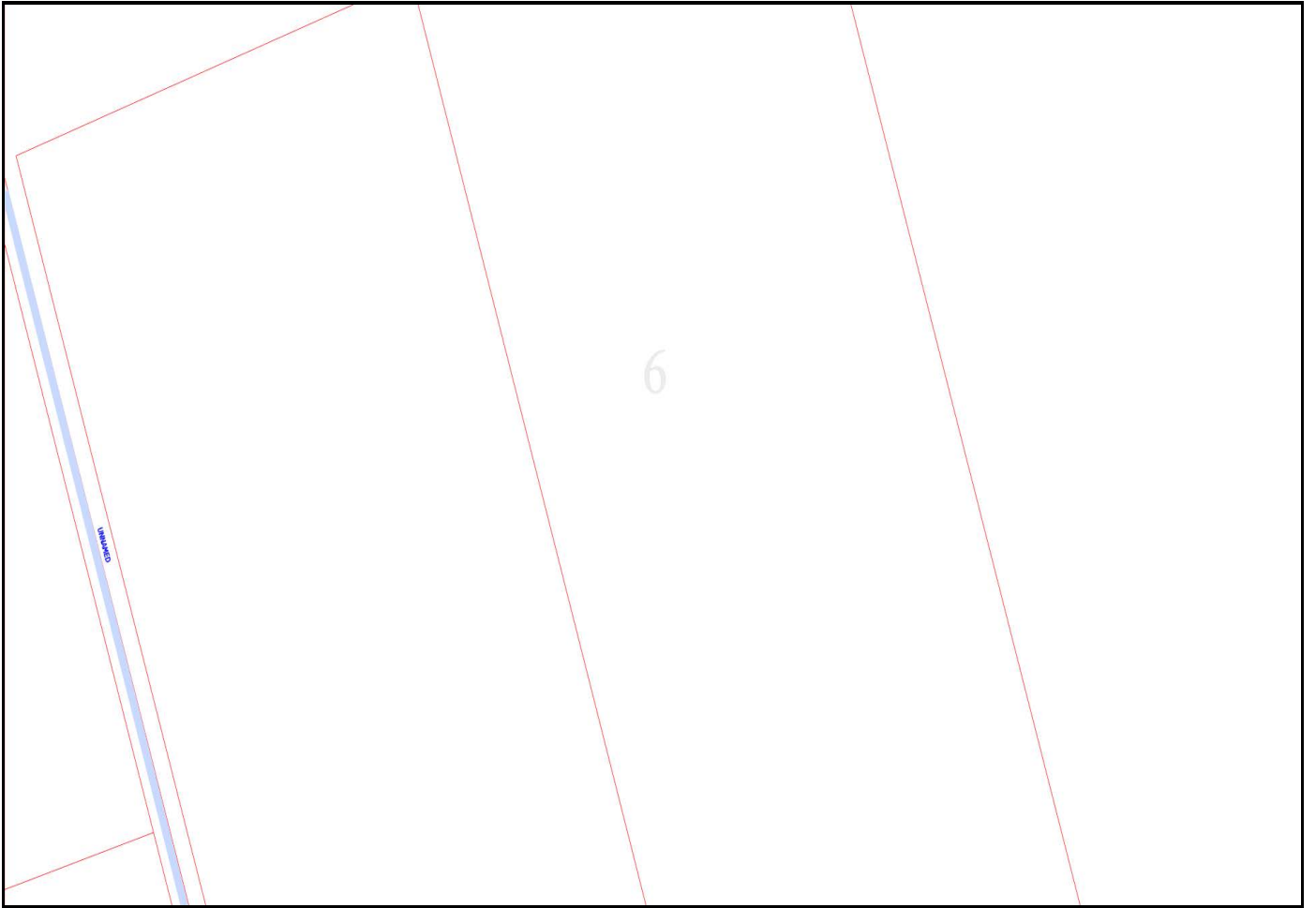


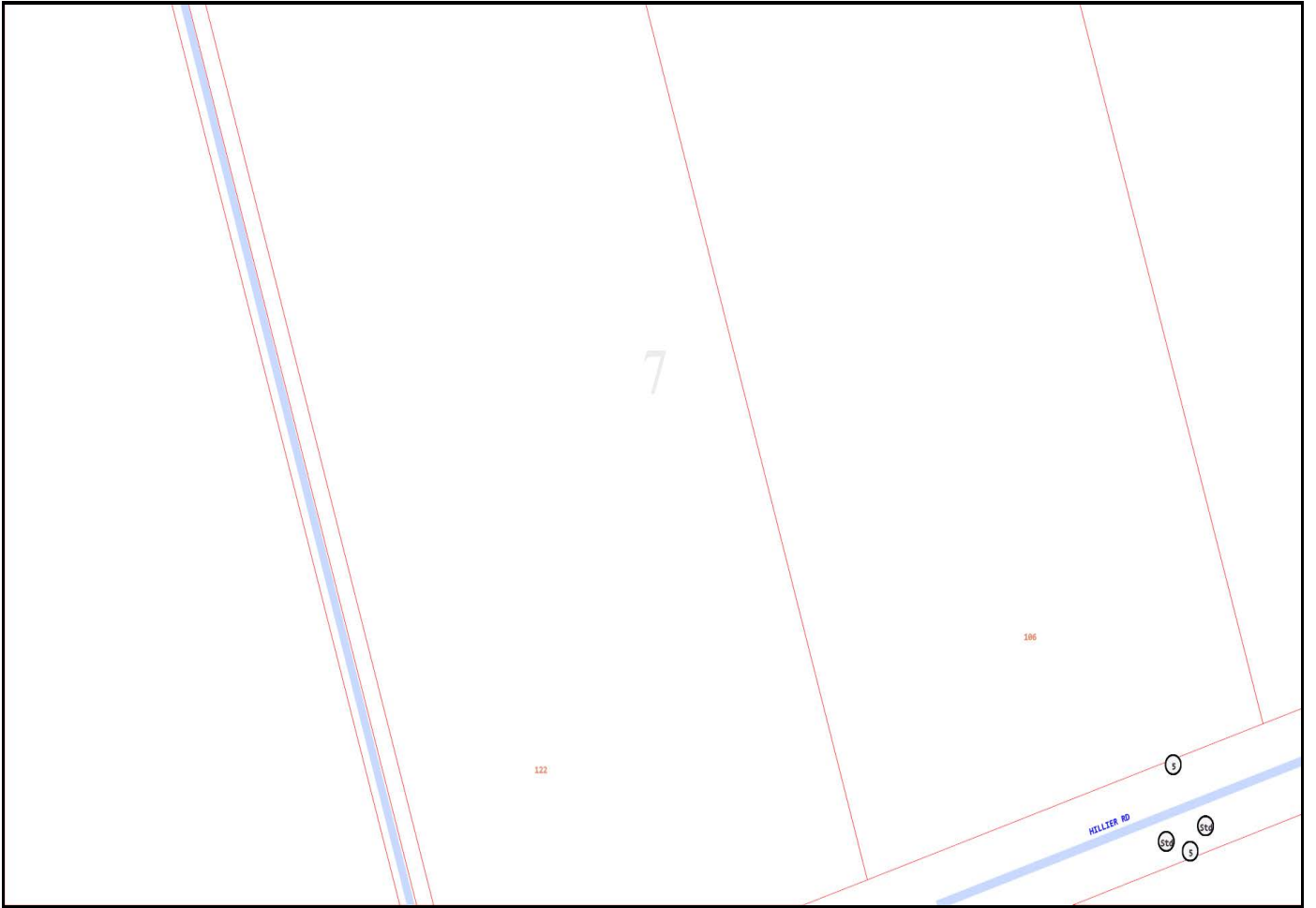


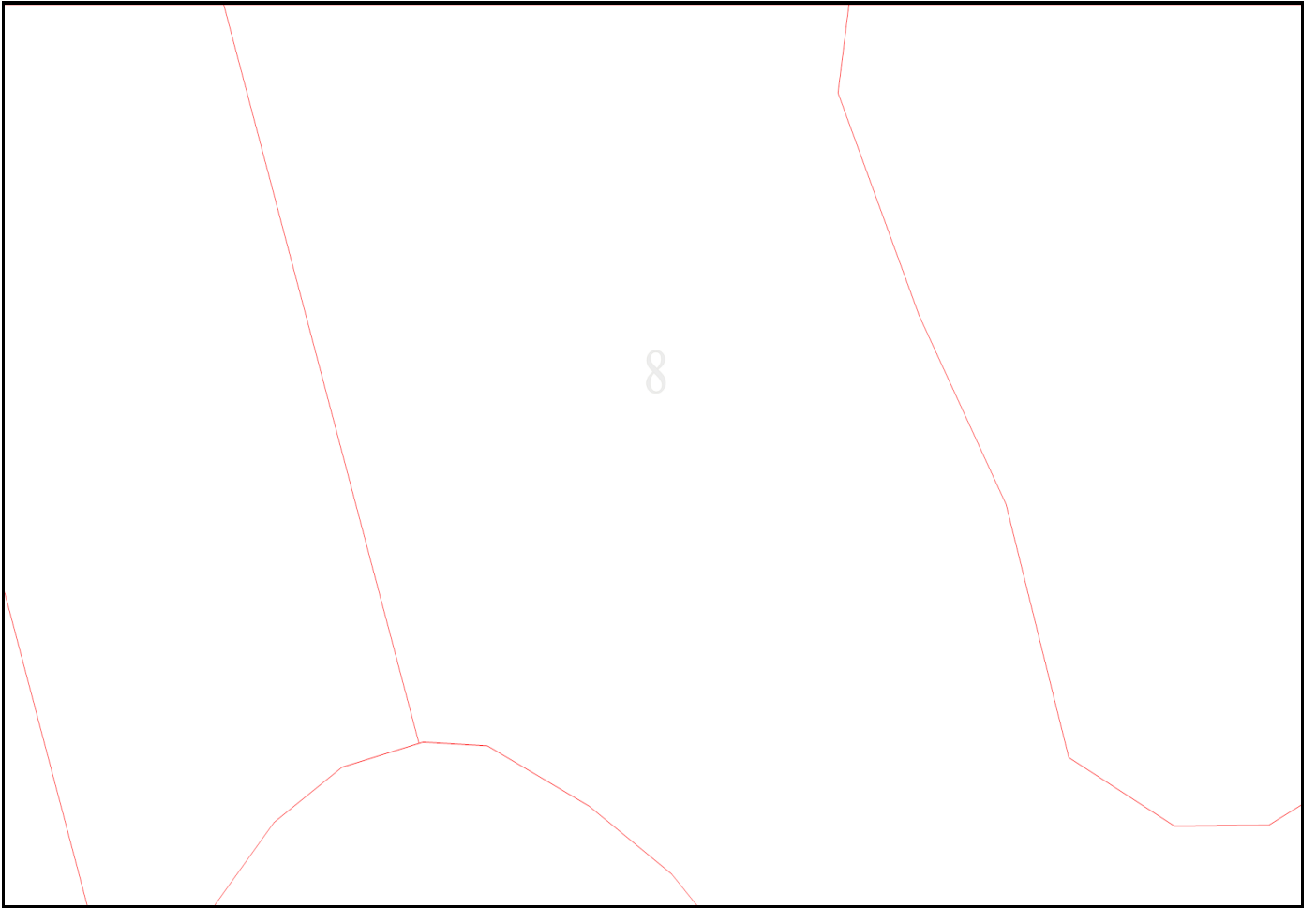


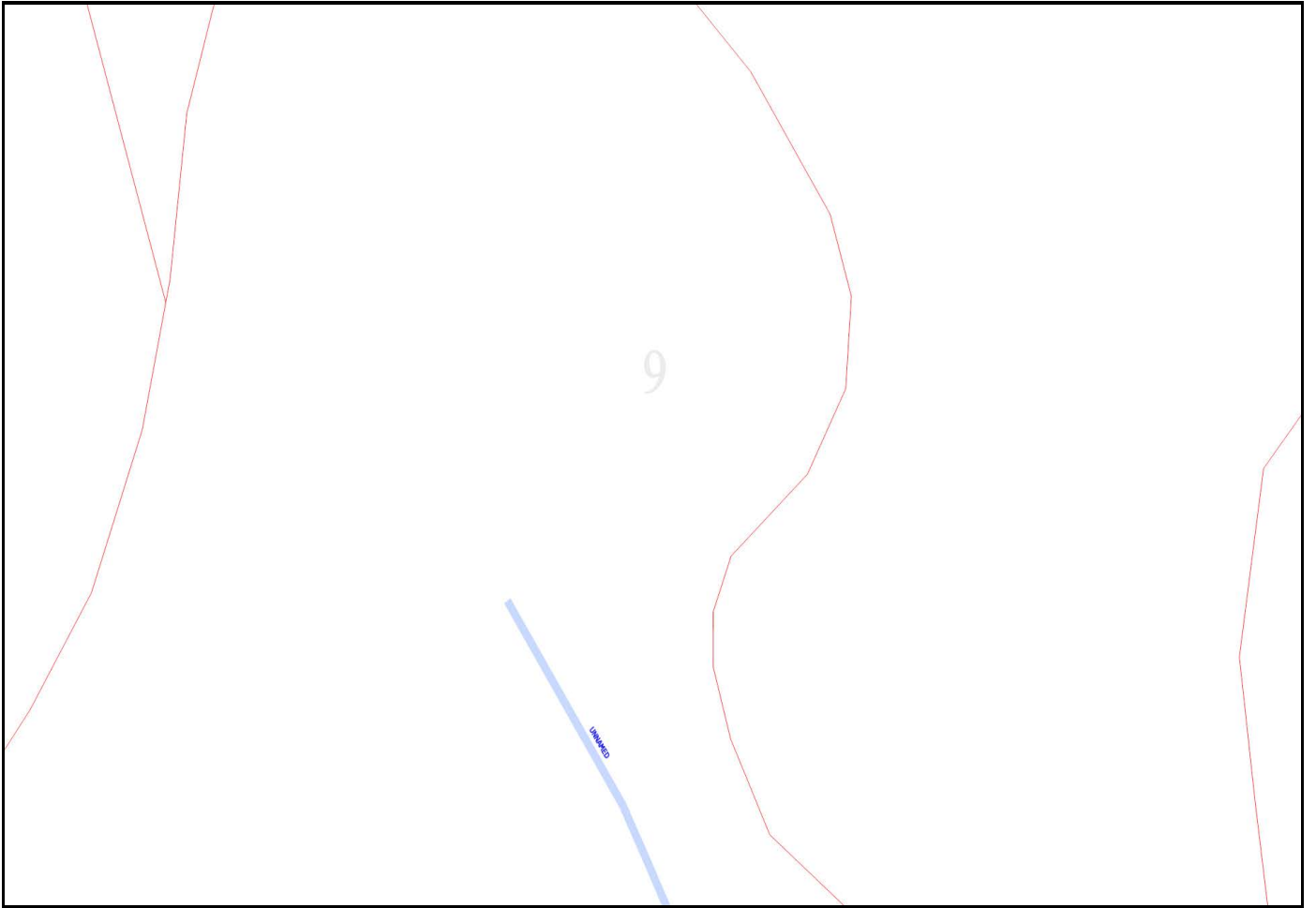


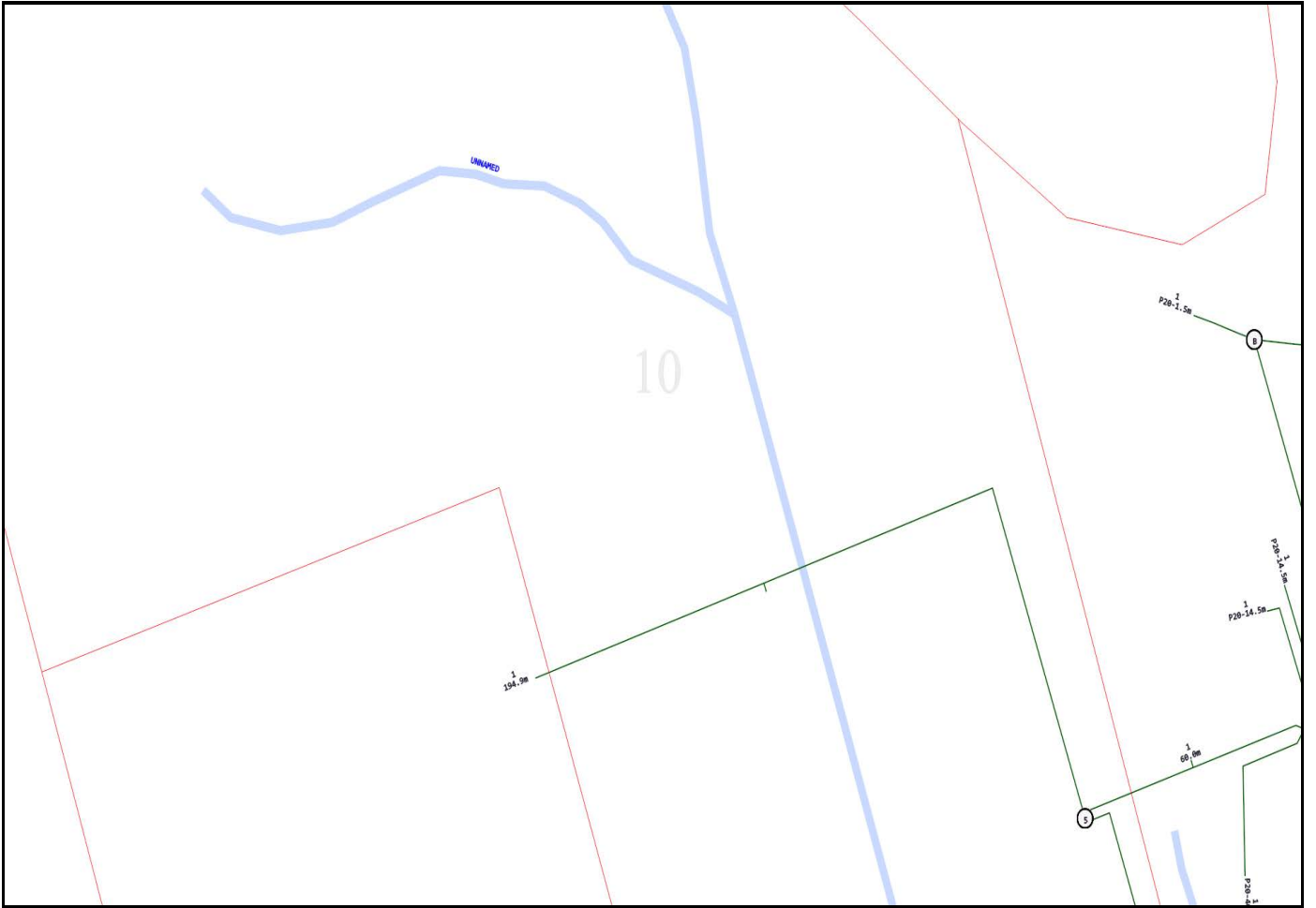


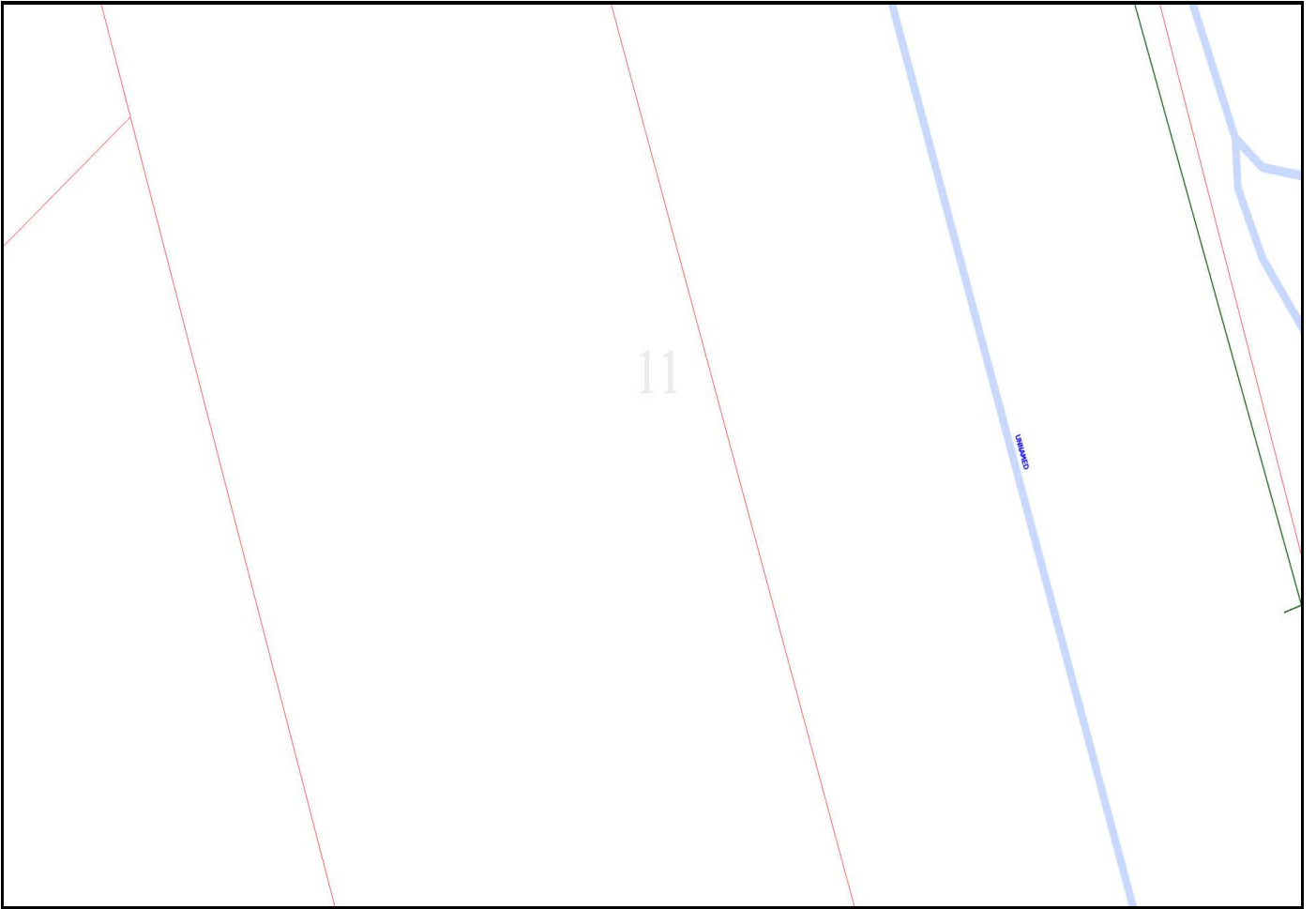


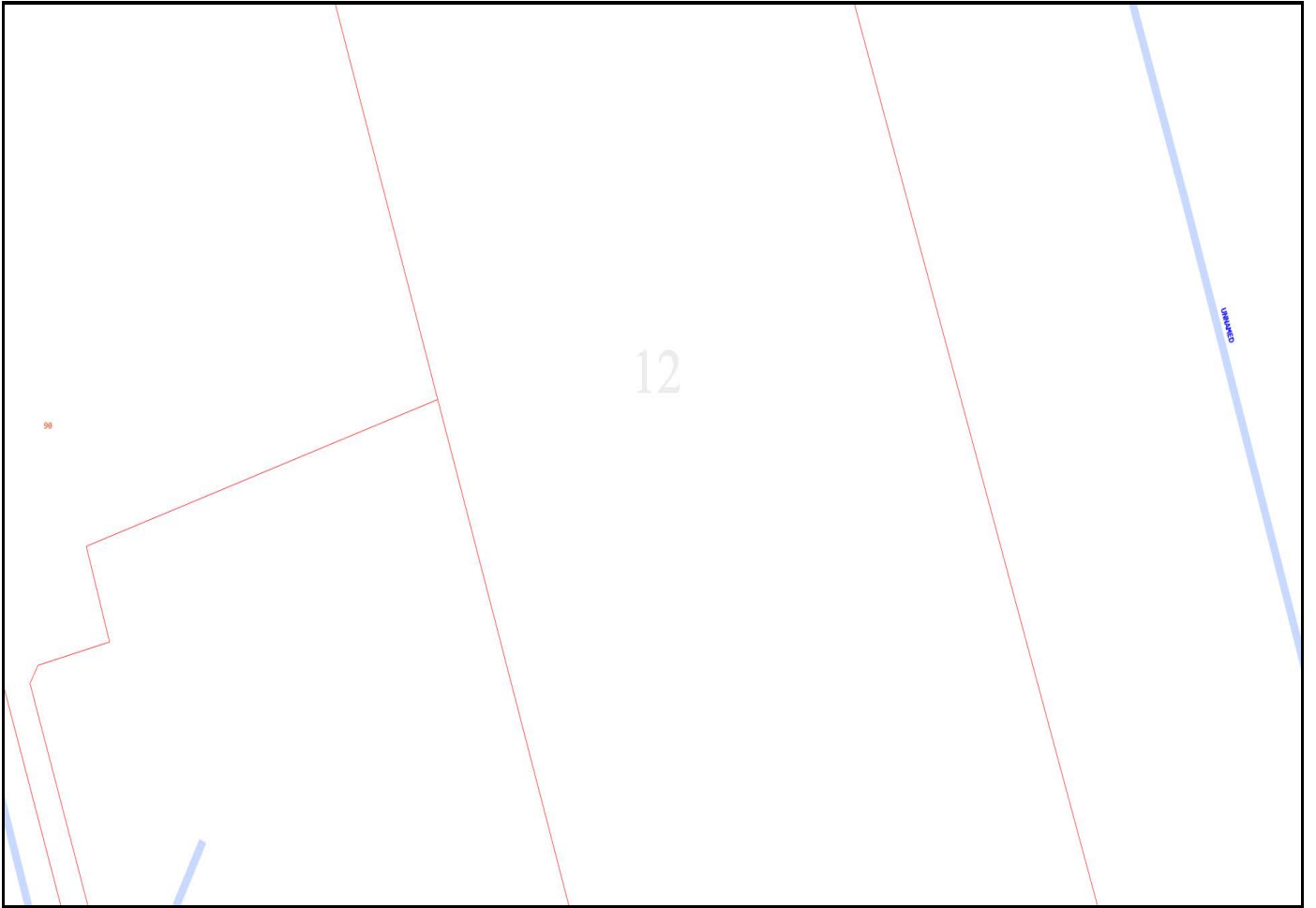


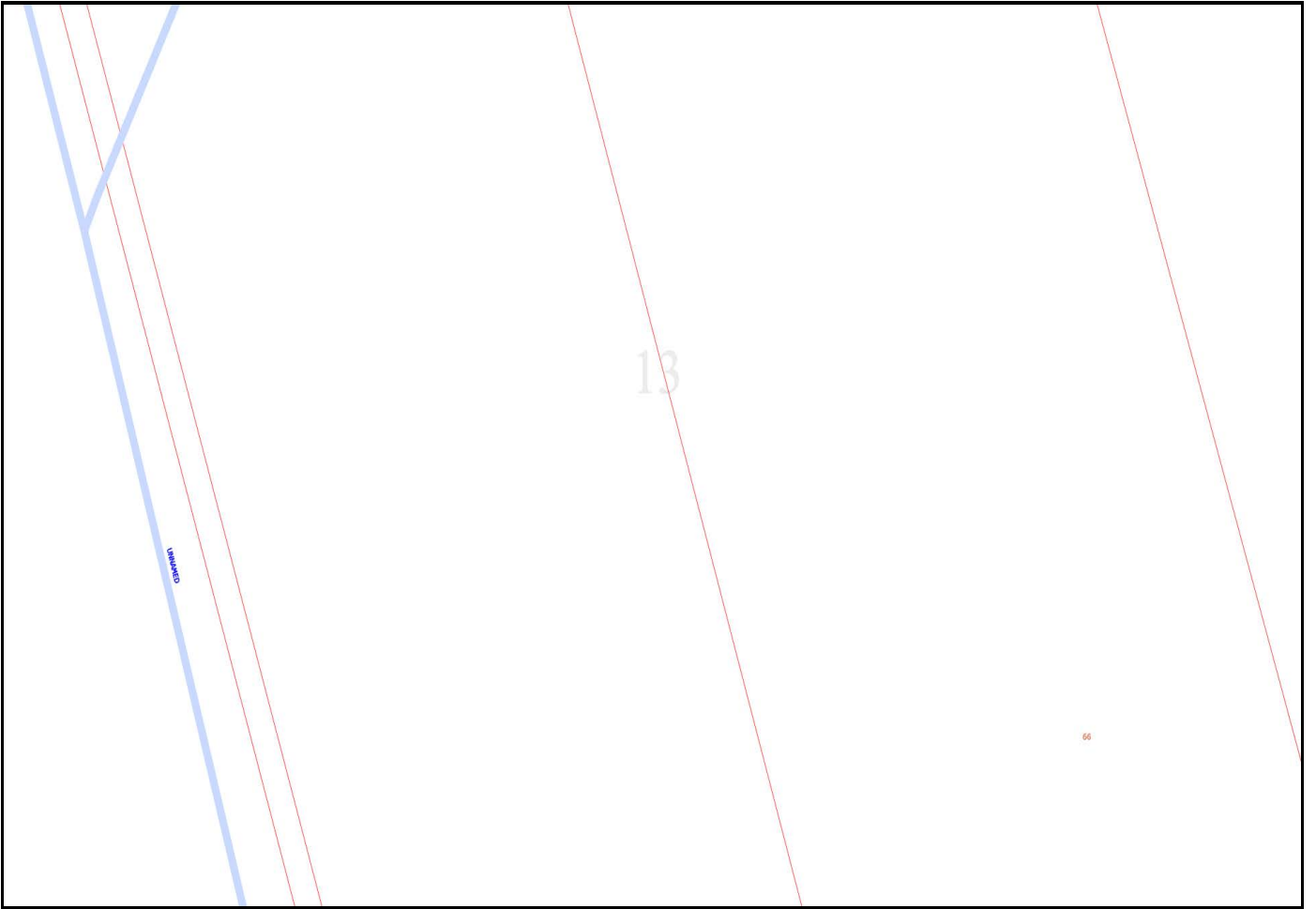




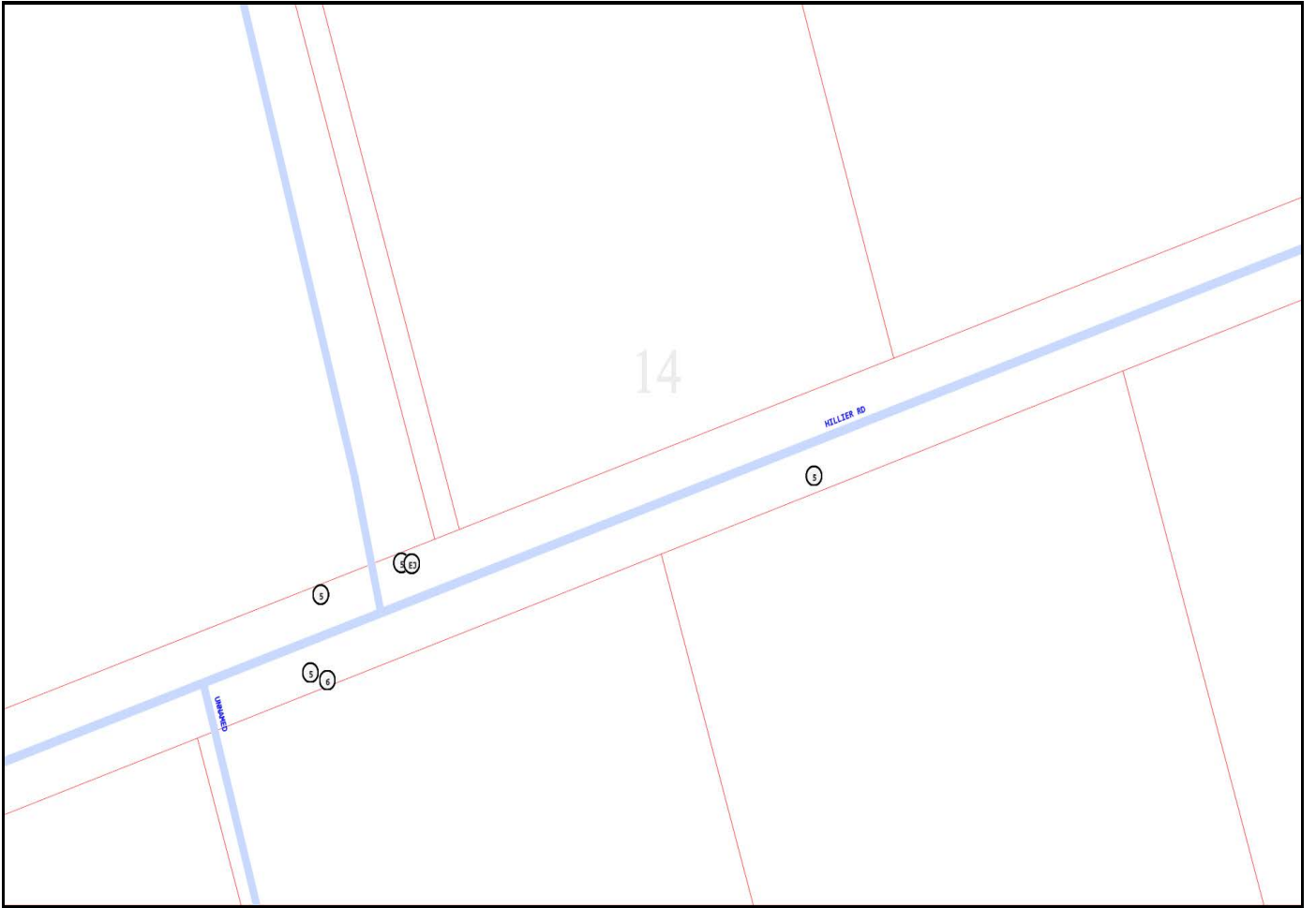


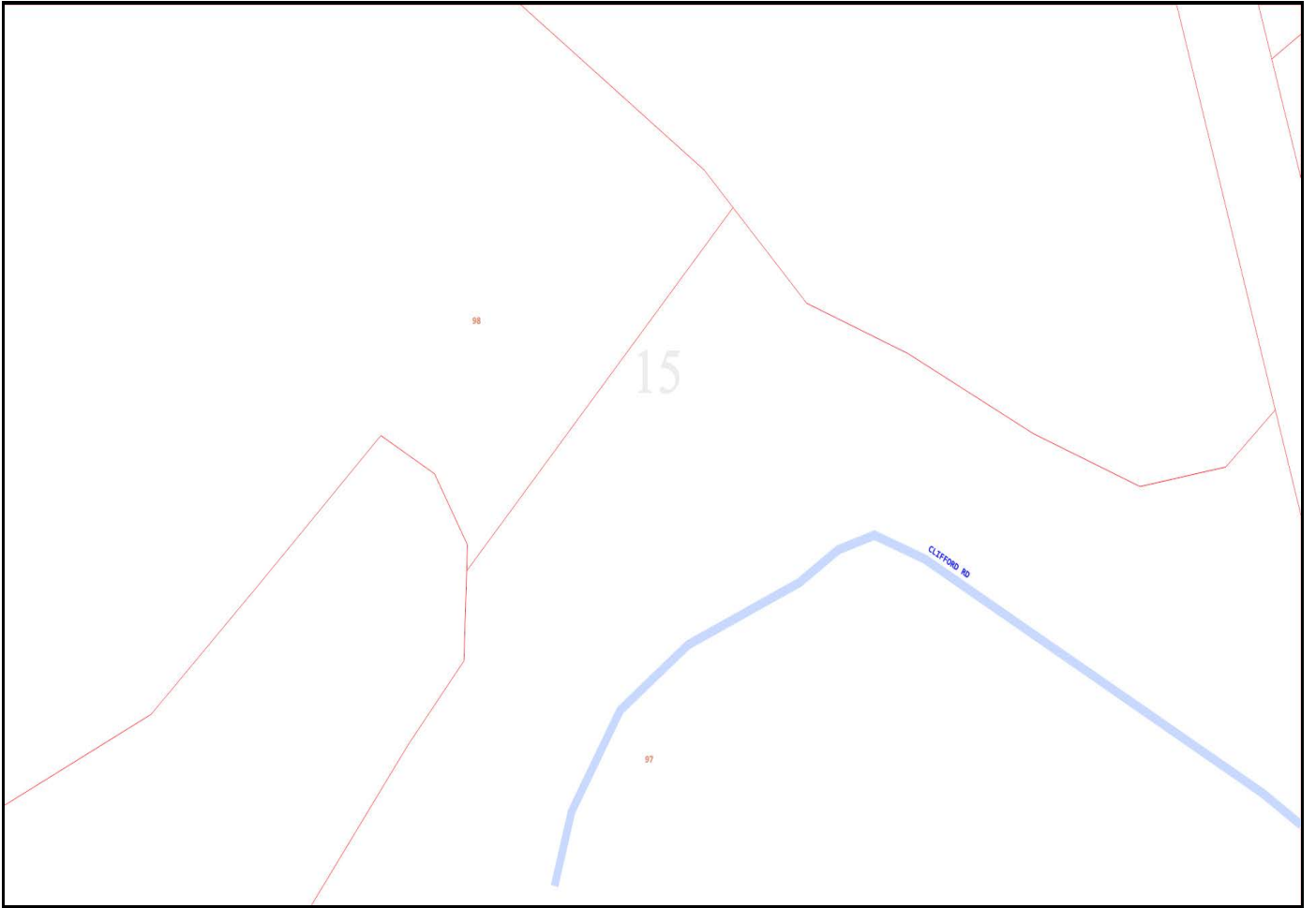


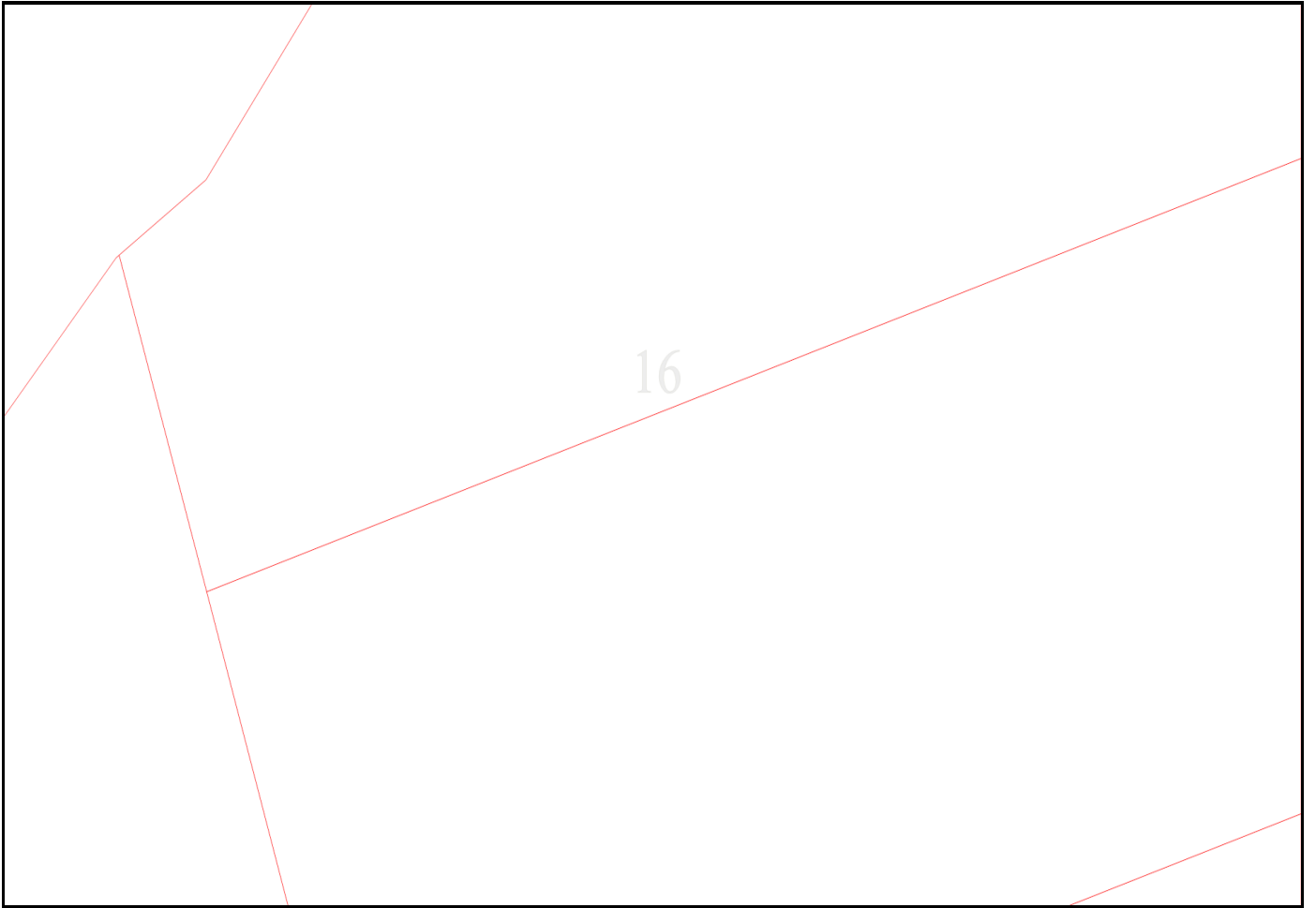


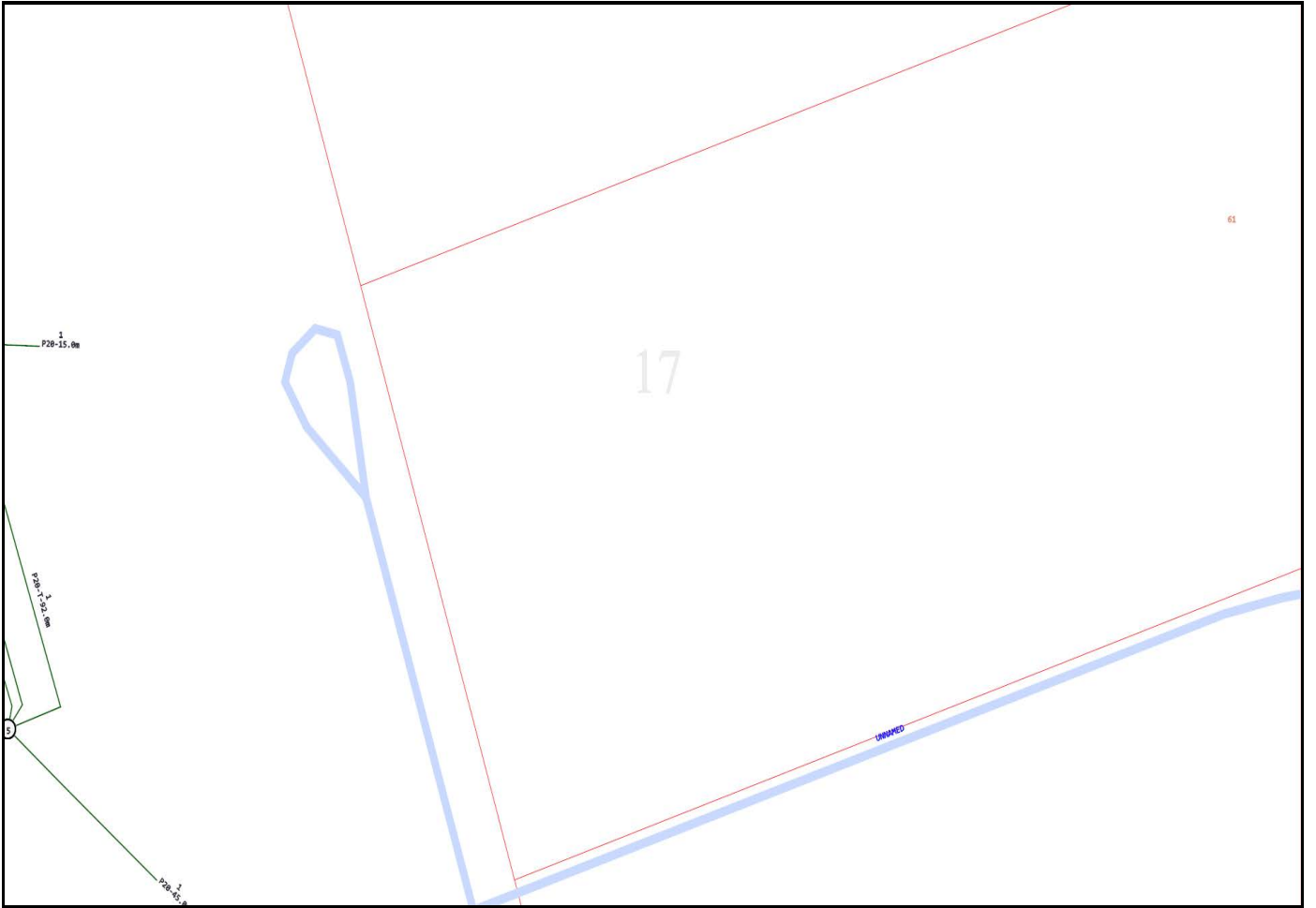


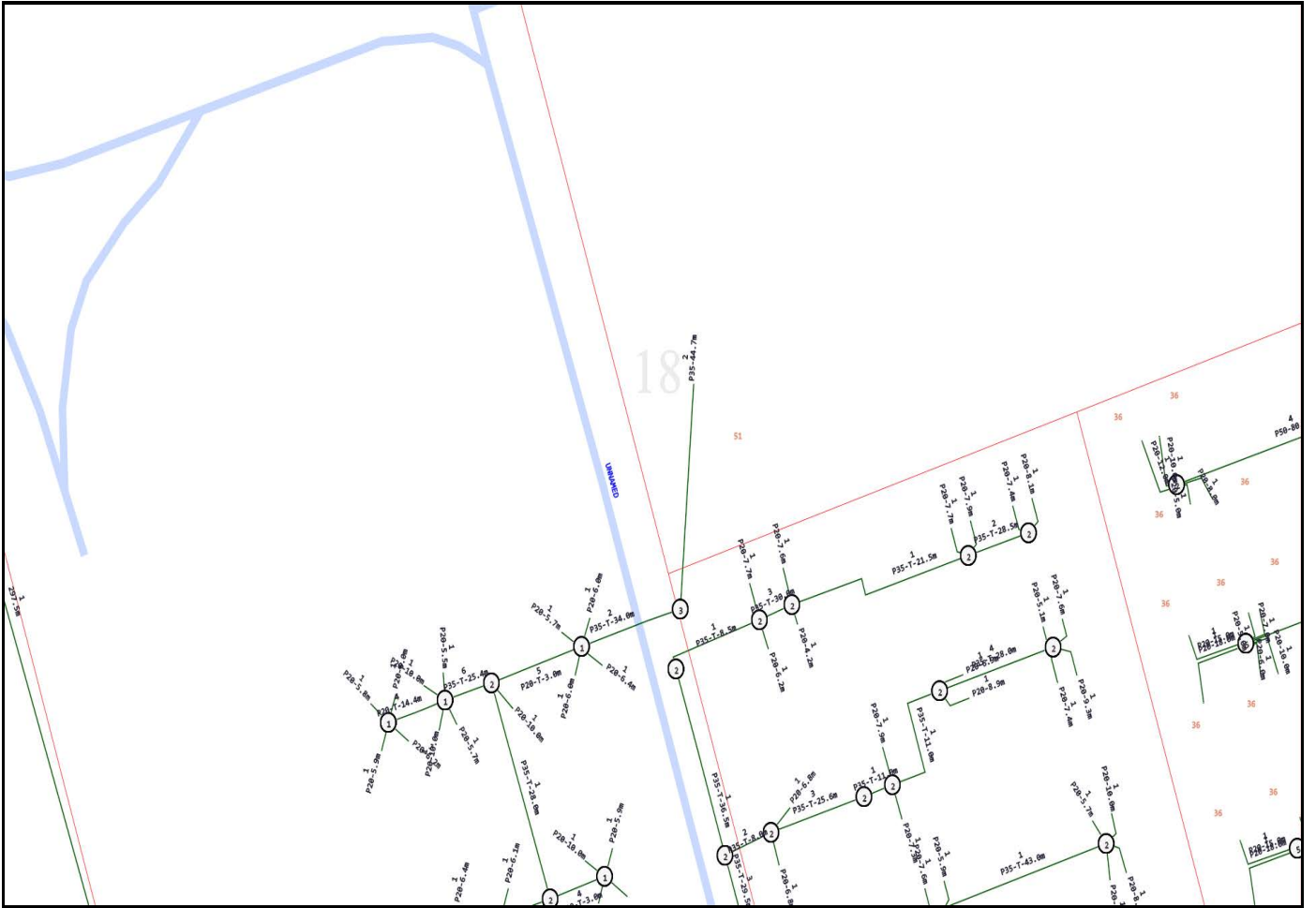


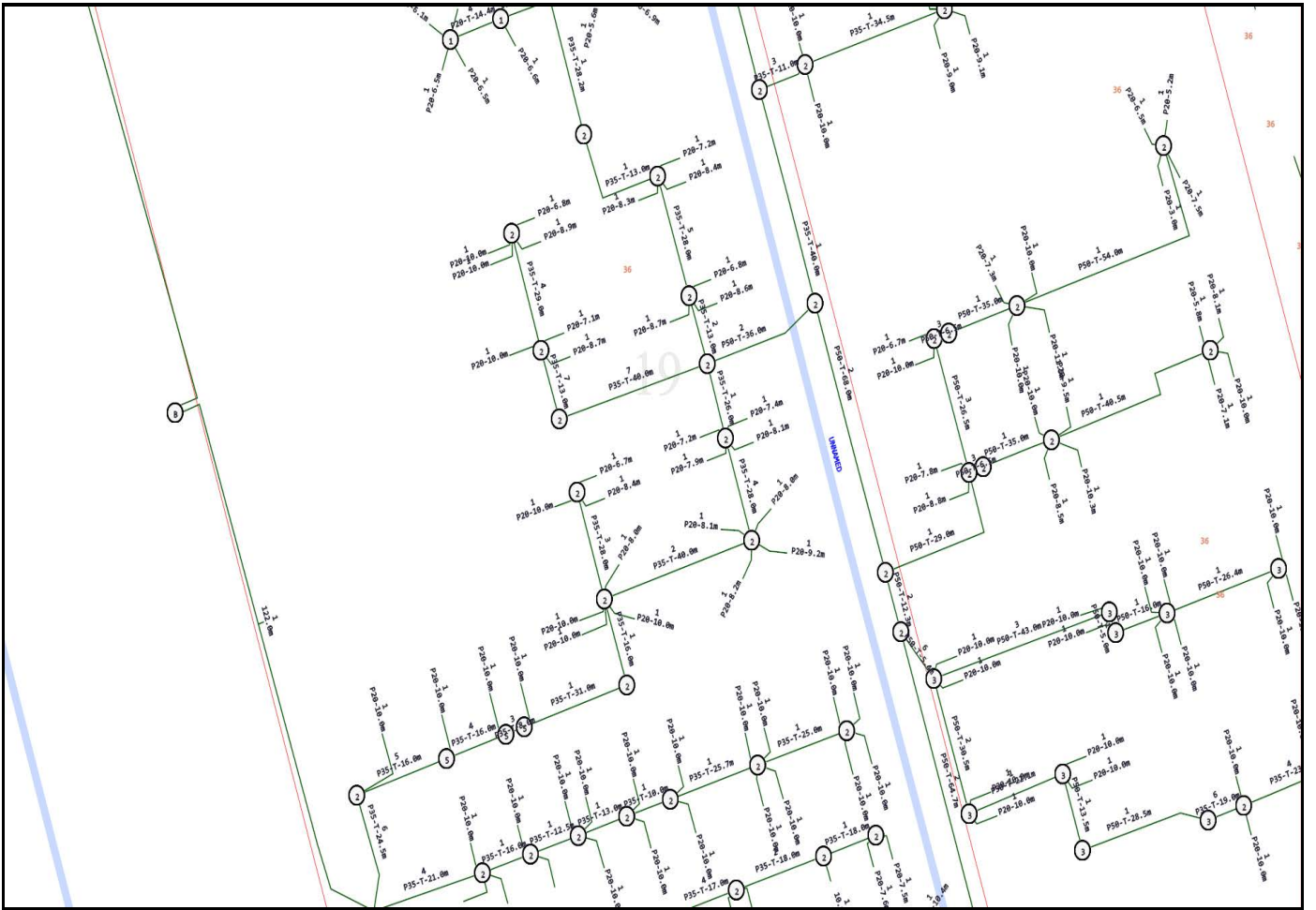


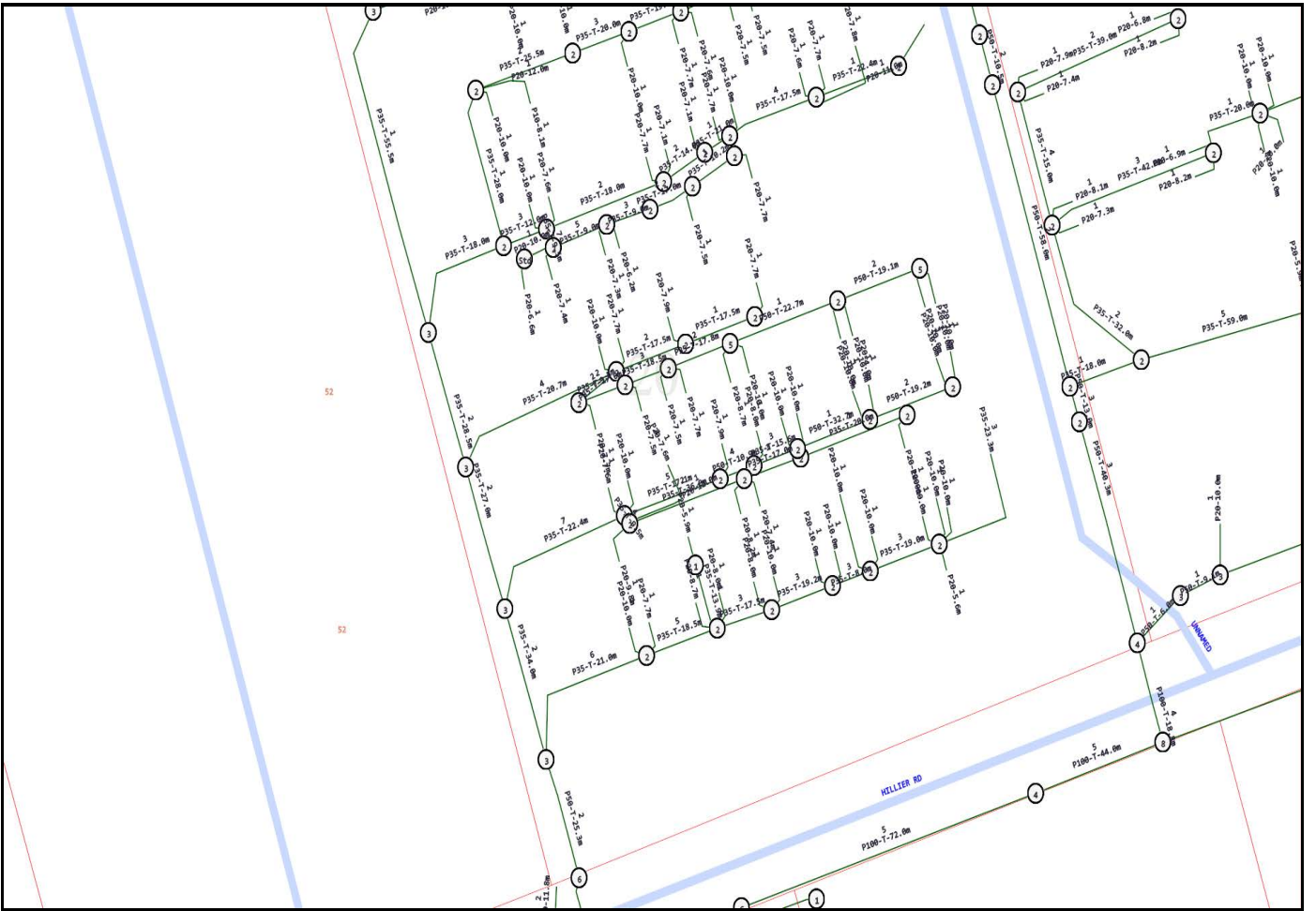


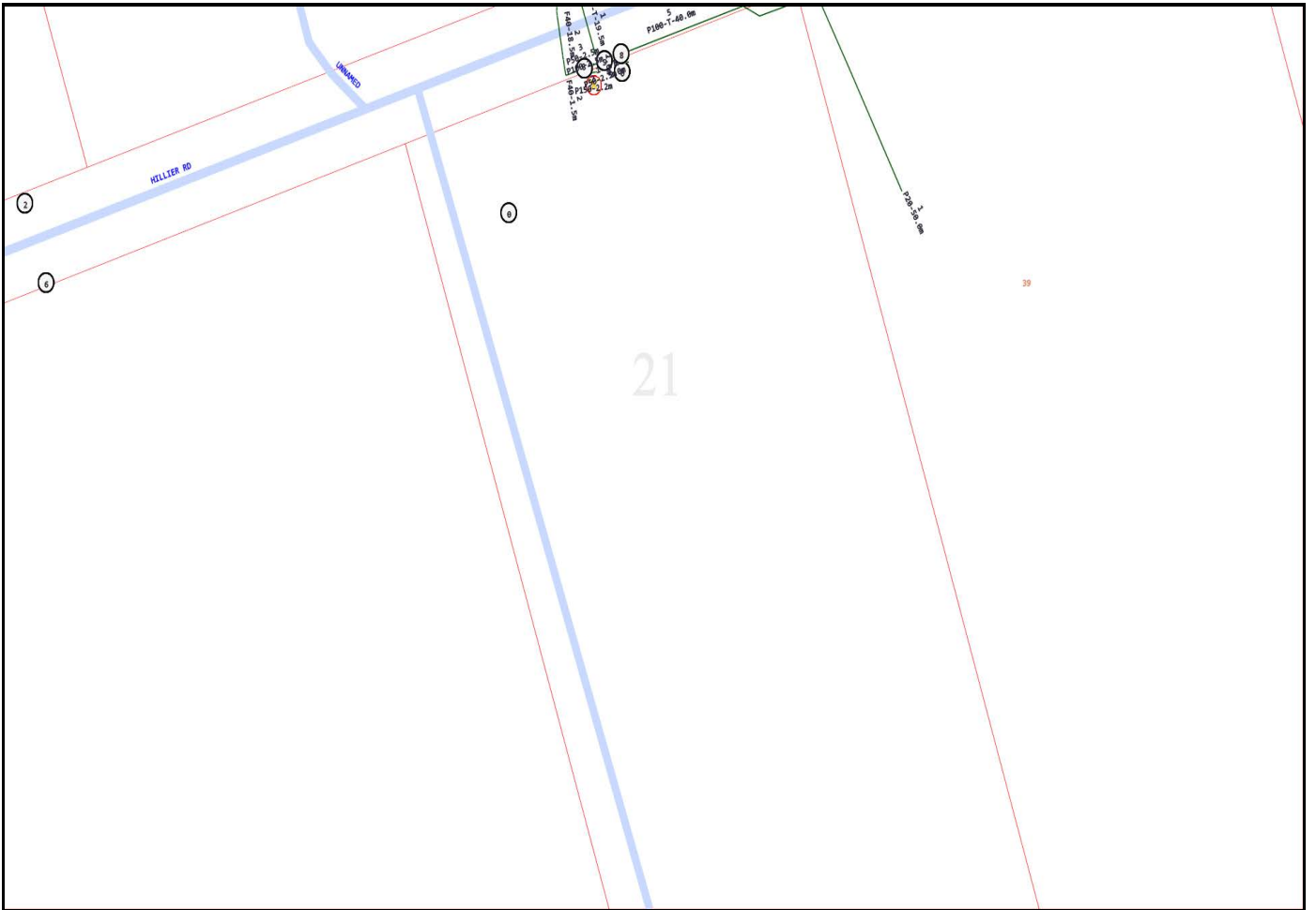













## Emergency Contacts

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:** Genevieve Virgara  
**Phone:** Not Supplied  
**Fax:** Not Supplied  
**Email:** genevieve.virgara@fyfe.com.au

<b>Dial before you dig Job #:</b>	32416866	
<b>Sequence #</b>	214155707	
<b>Issue Date:</b>	28/07/2022	
<b>Location:</b>	Lot 5 Hillier Road , Hillier , SA , 5116	

## Indicative Plans

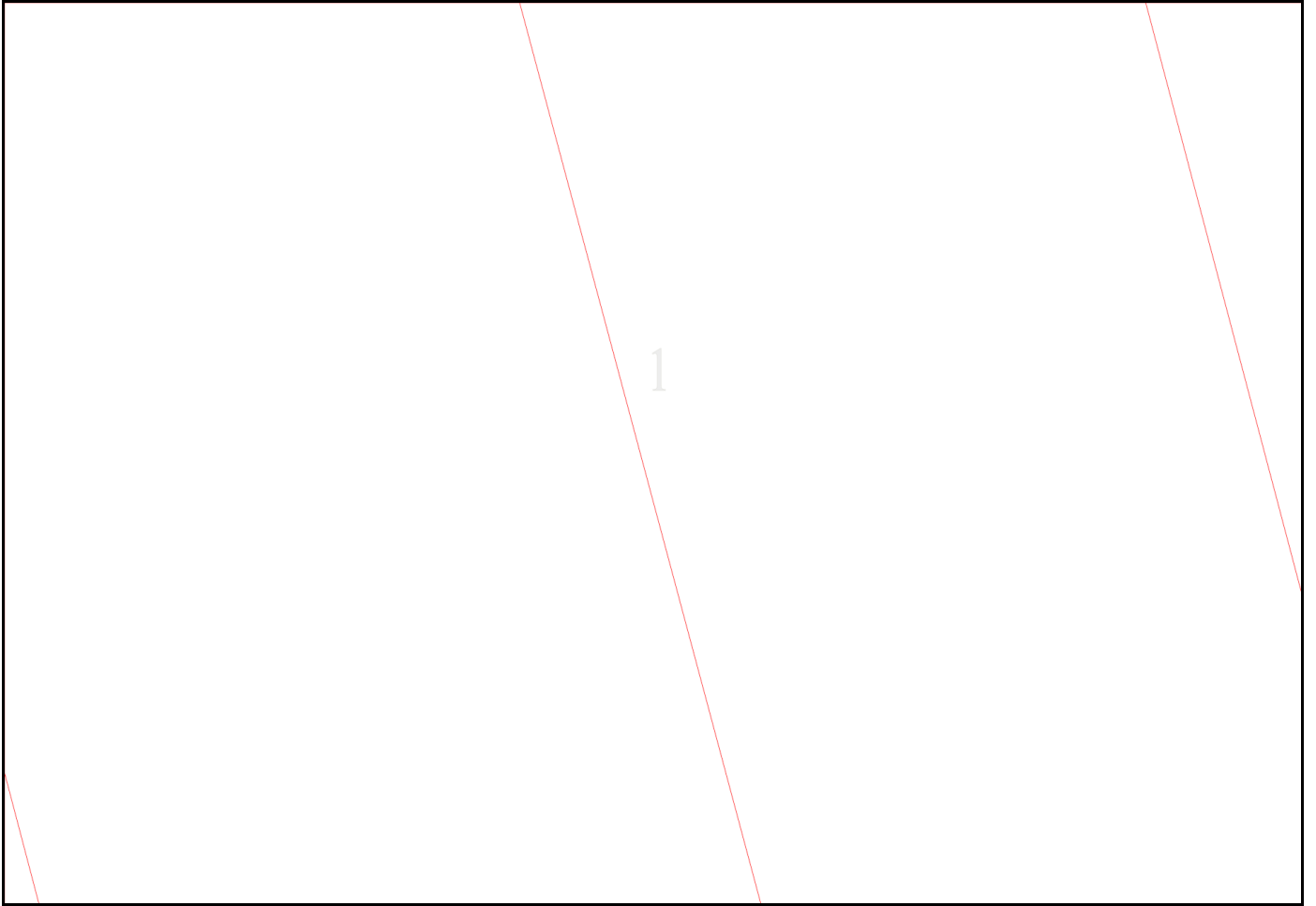
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3	10	17
4	11	18
5	12	19
6	13	20
7	14	21

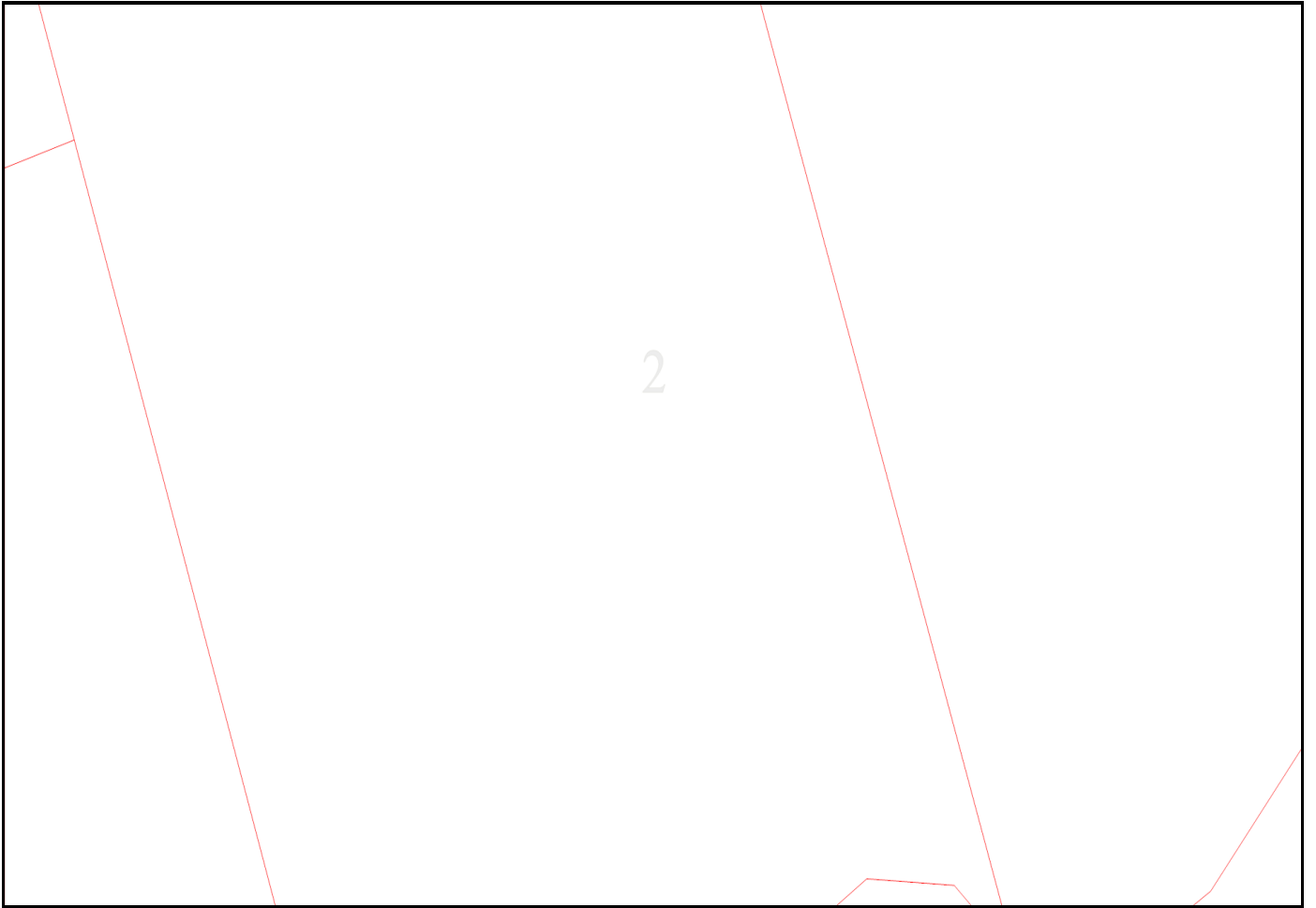


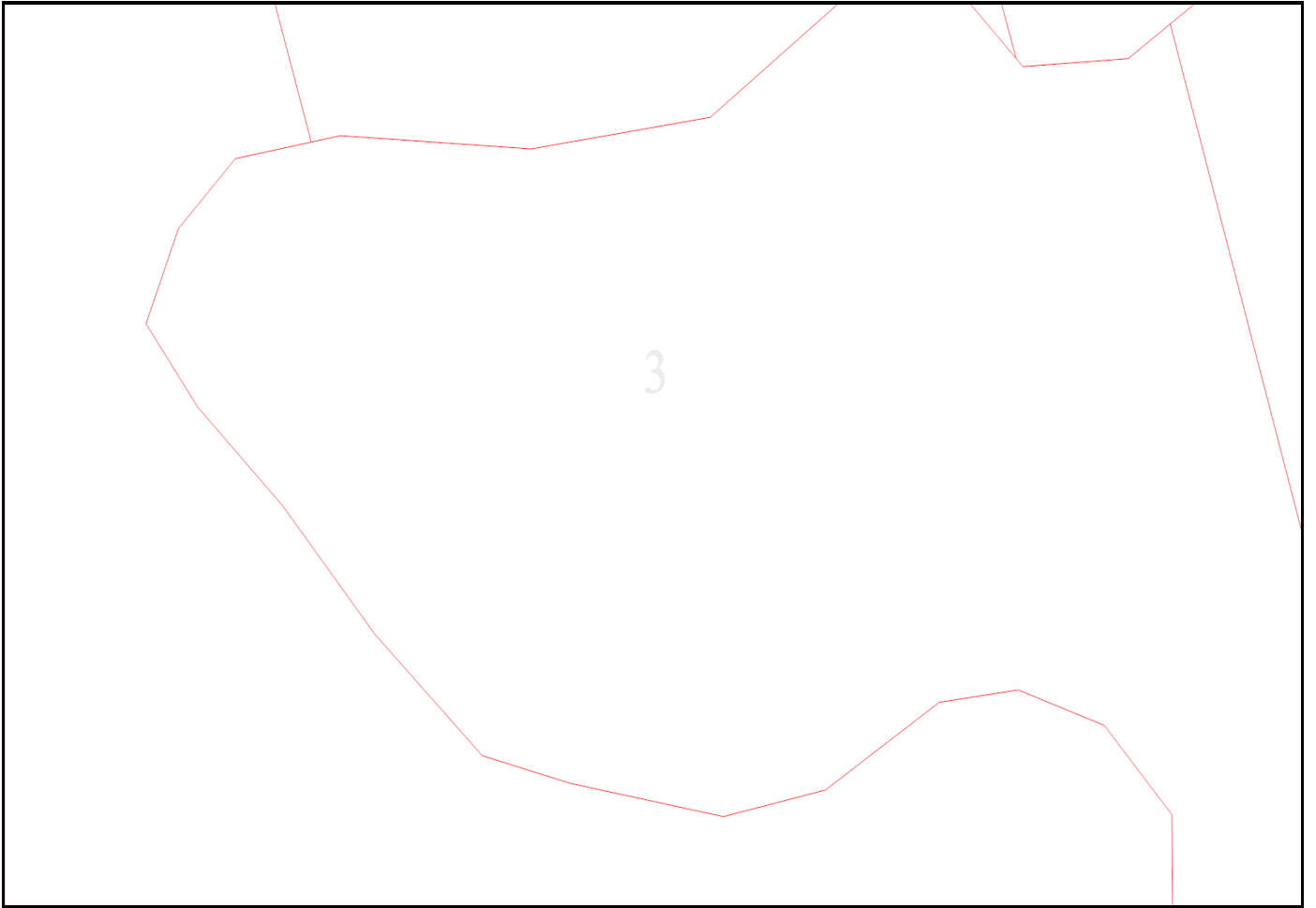
## LEGEND

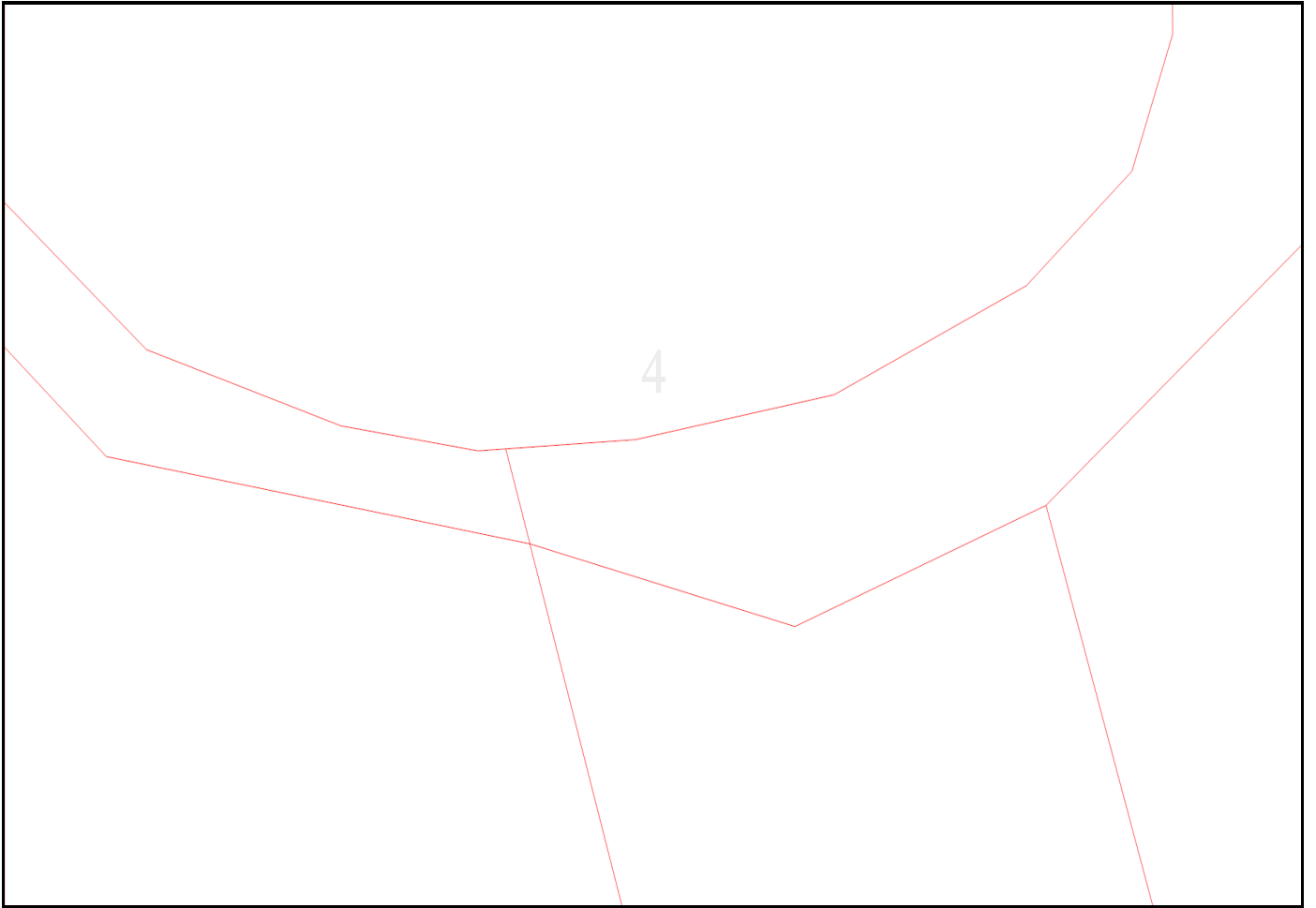


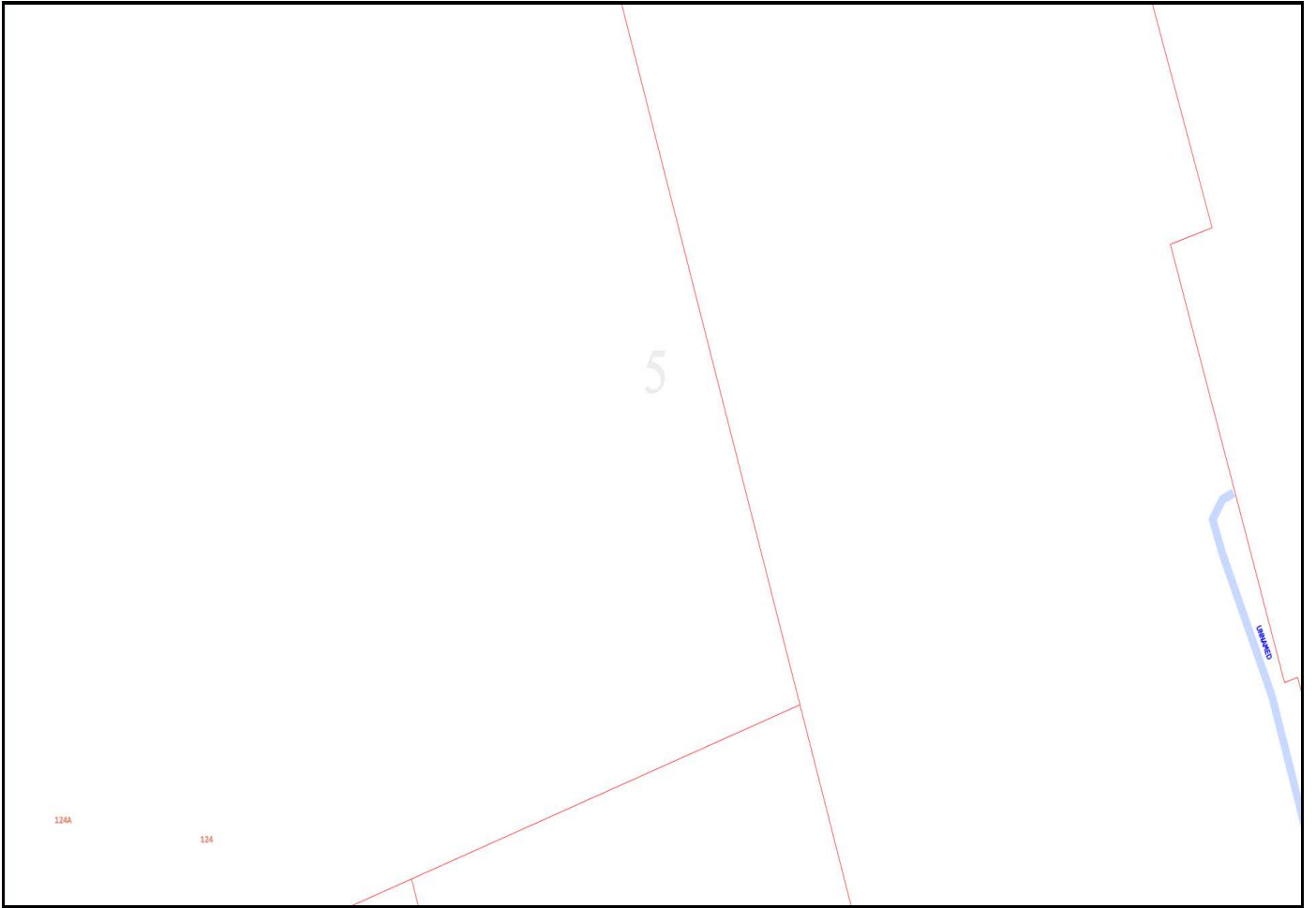
	Parcel and the location
	Pit with size "5"
	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40)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

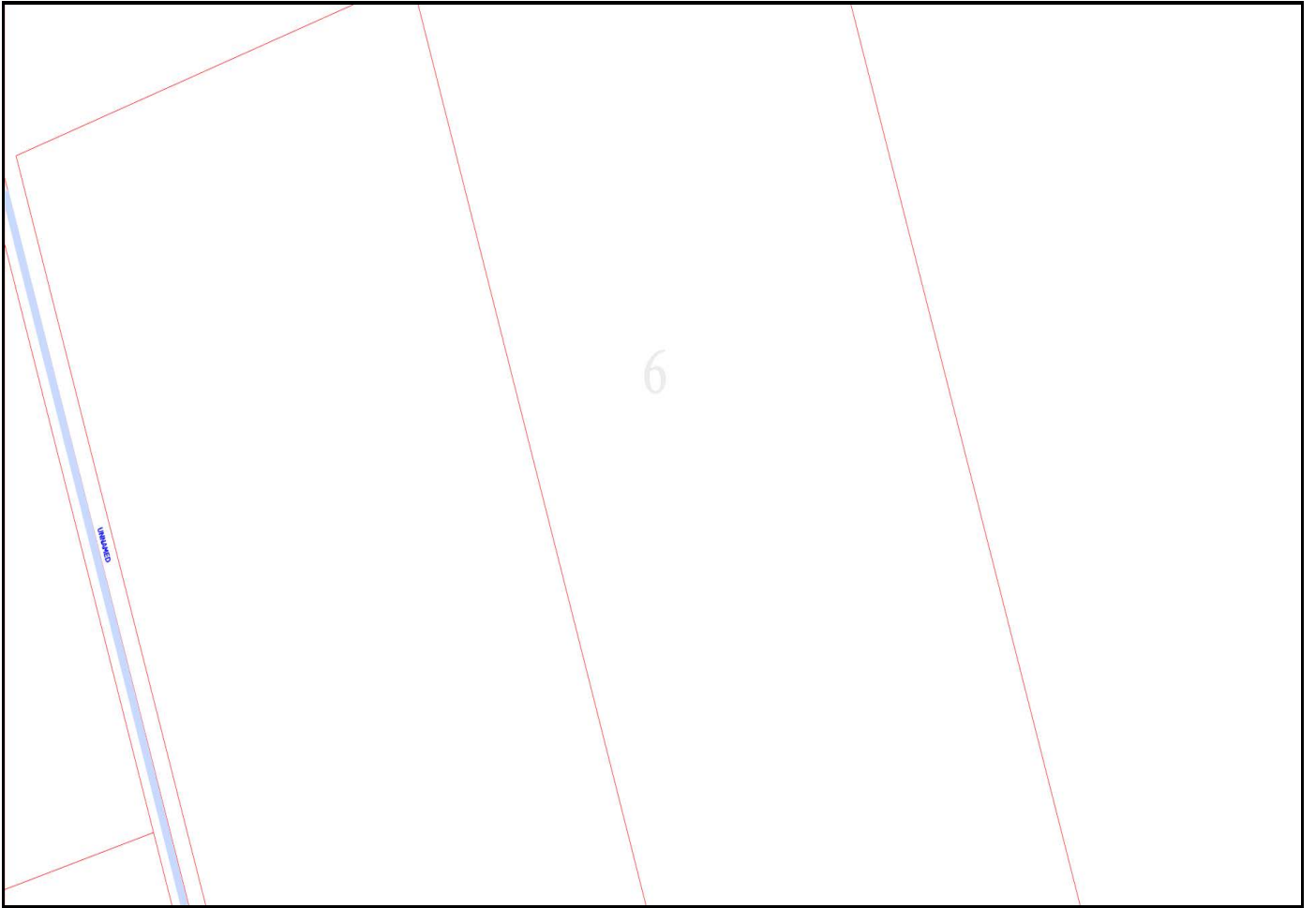




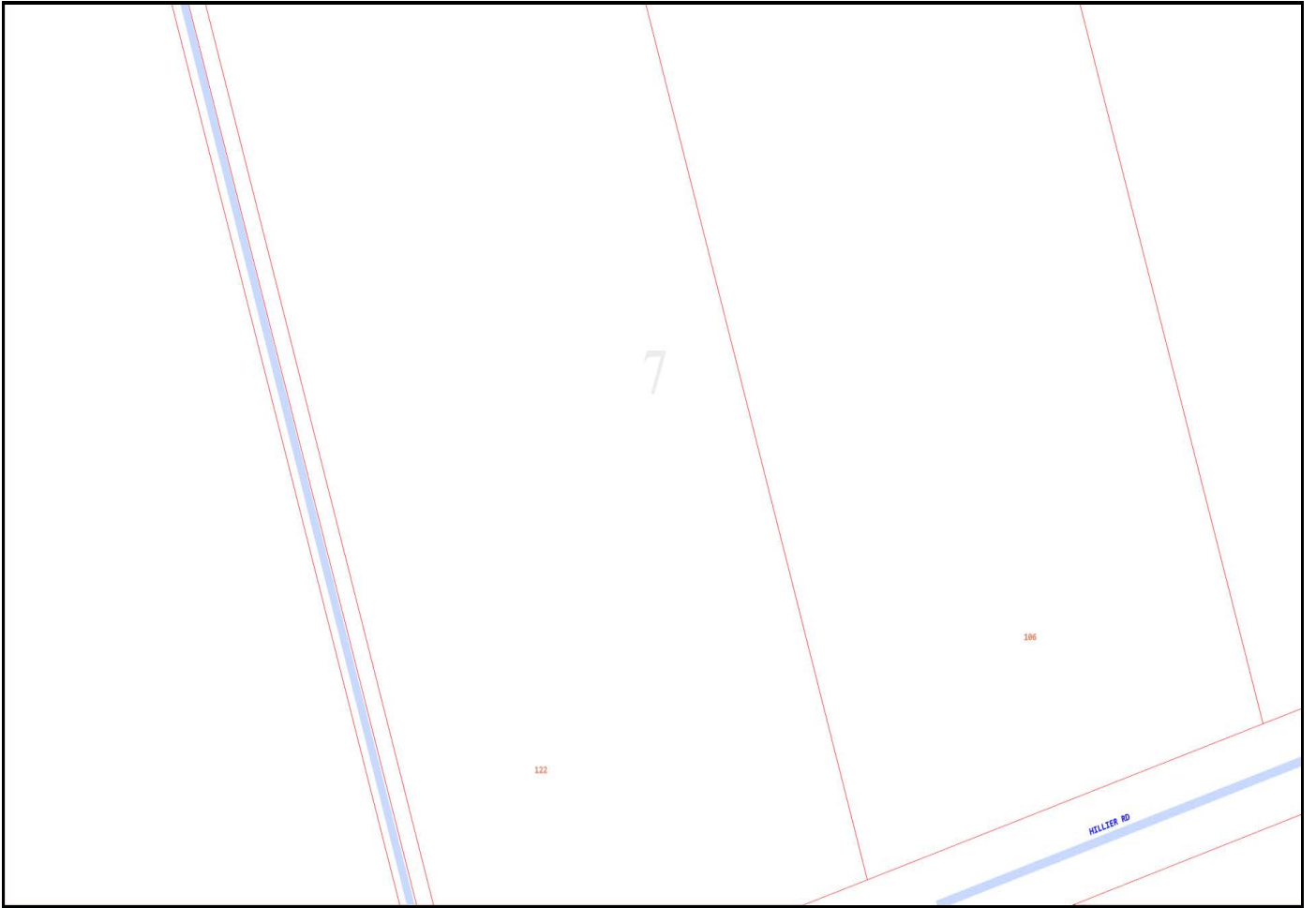


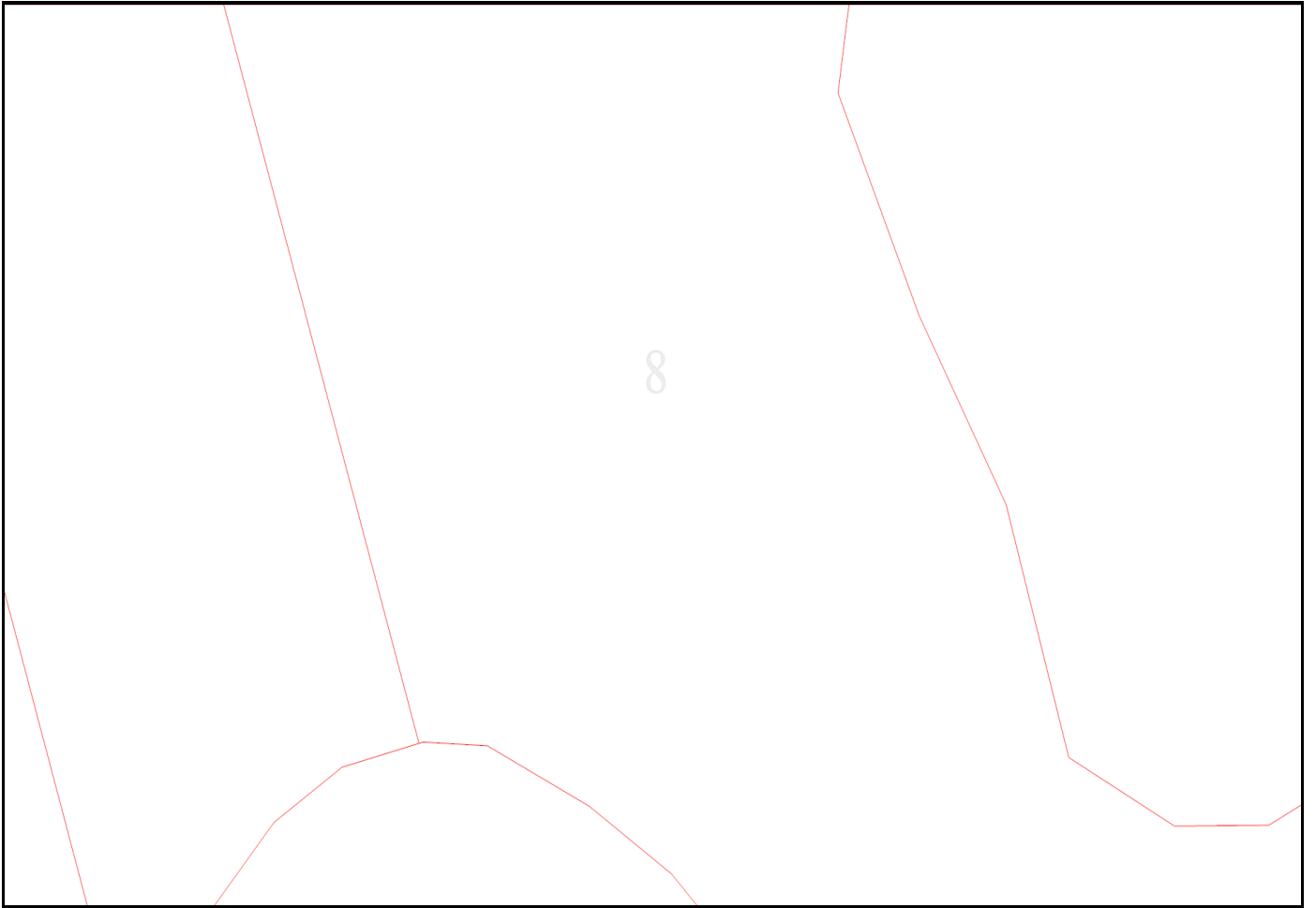


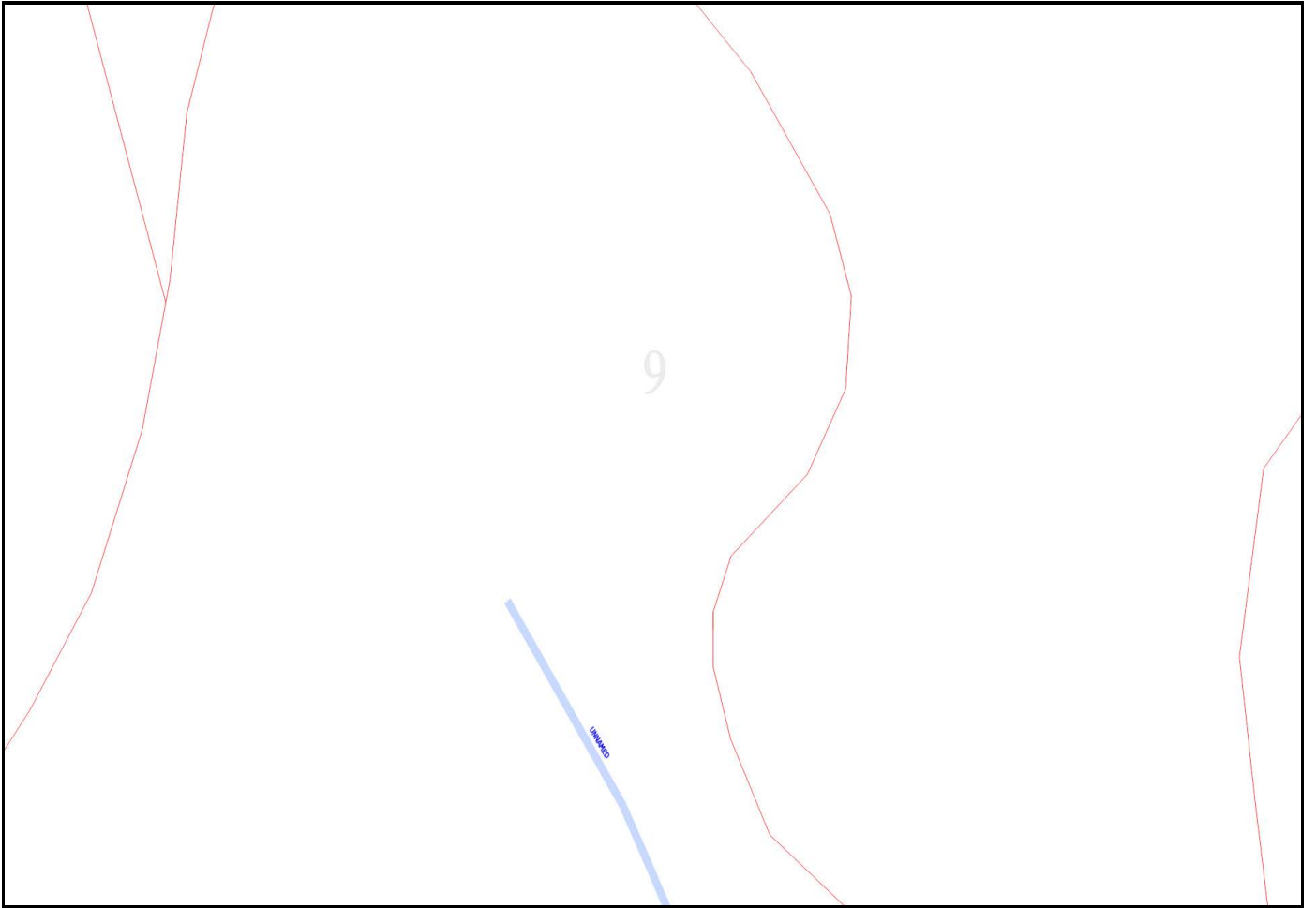




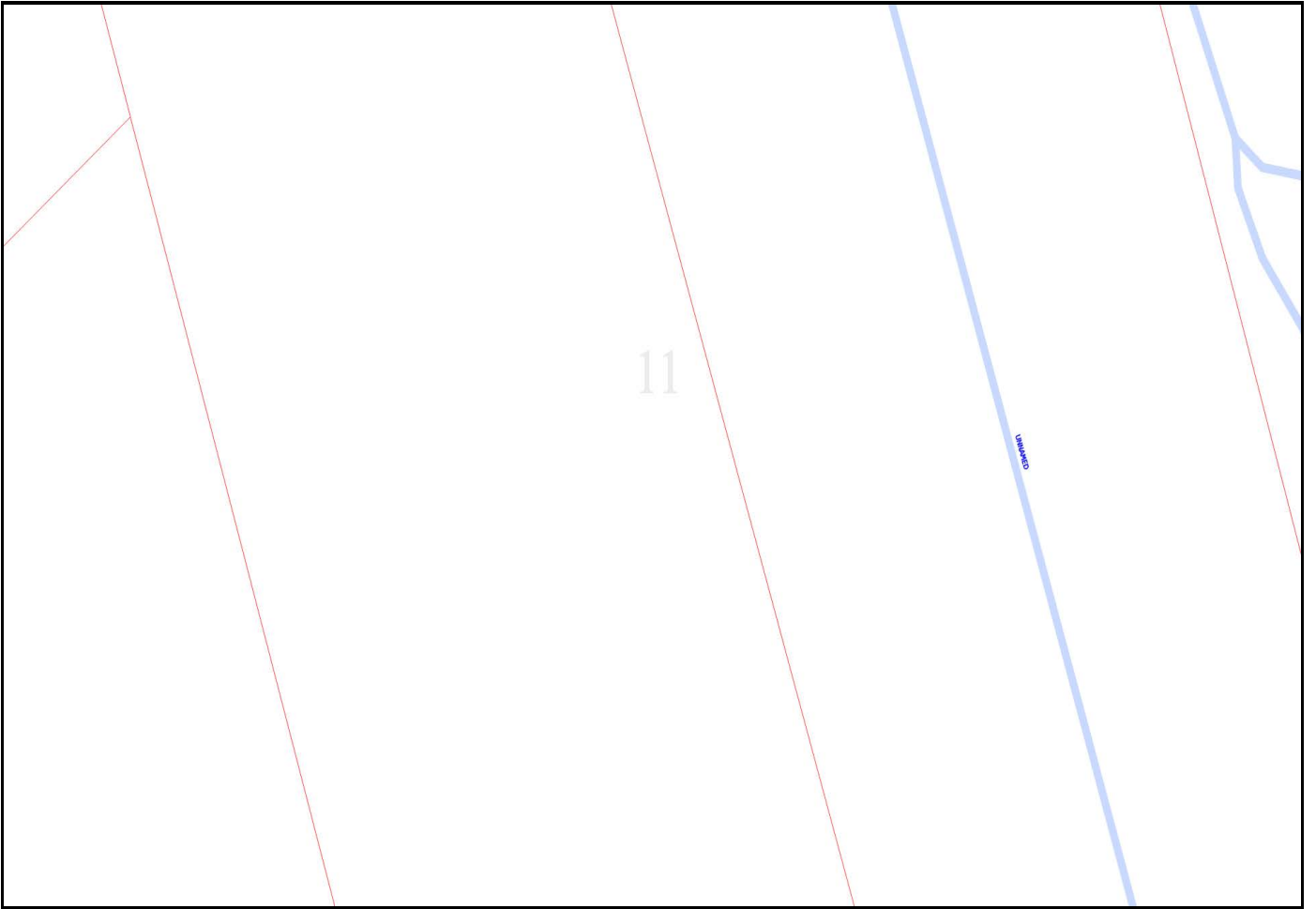


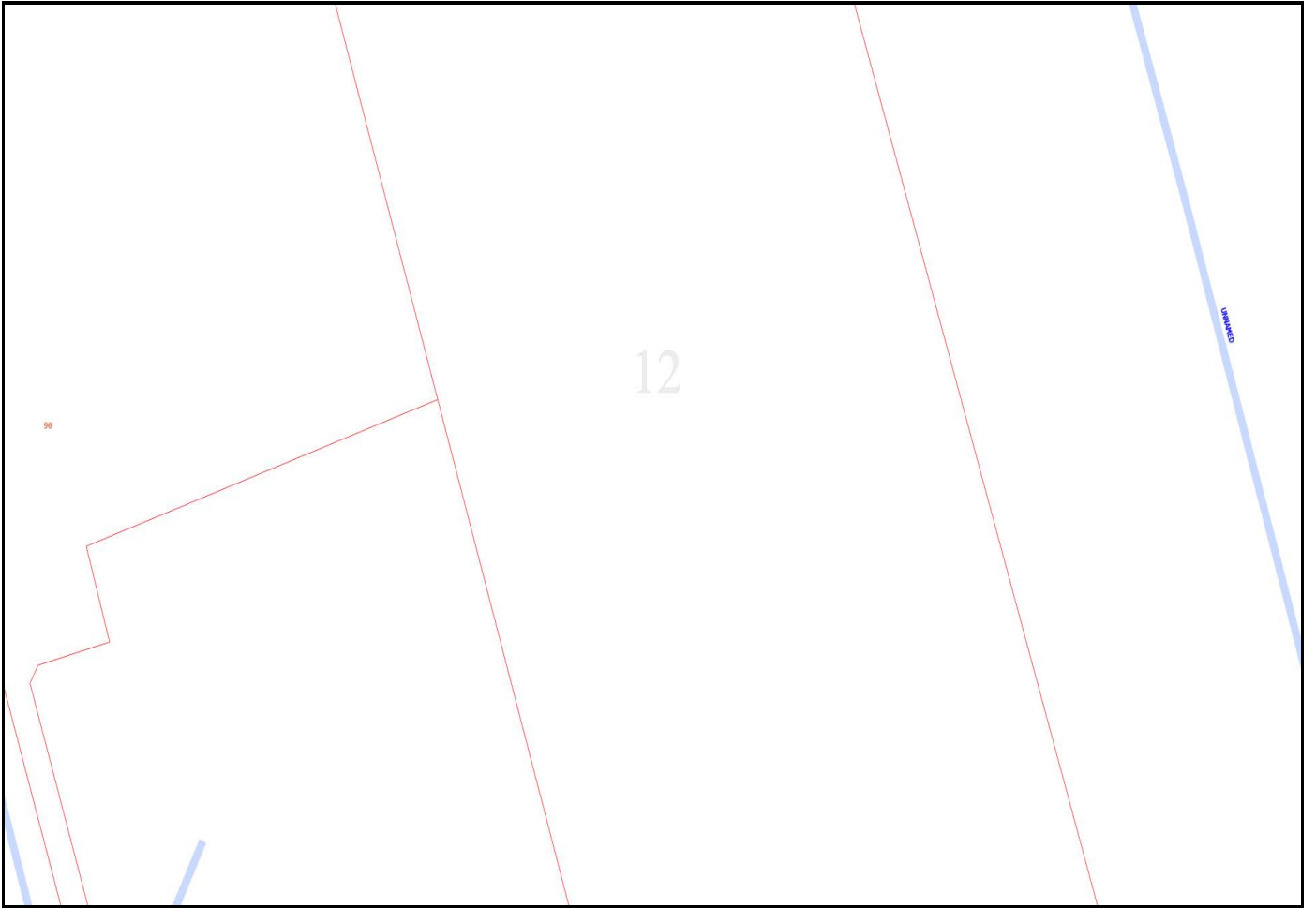


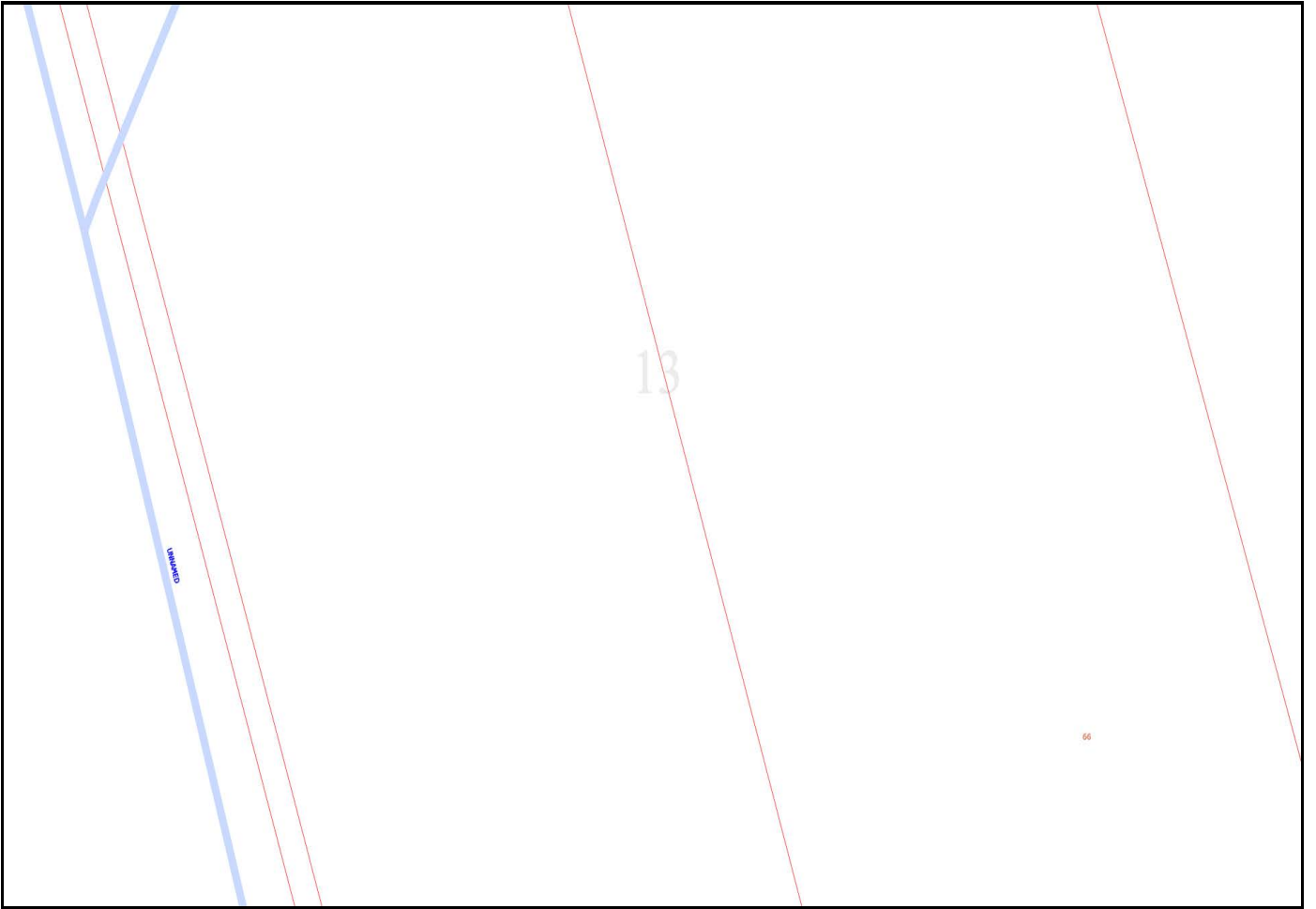


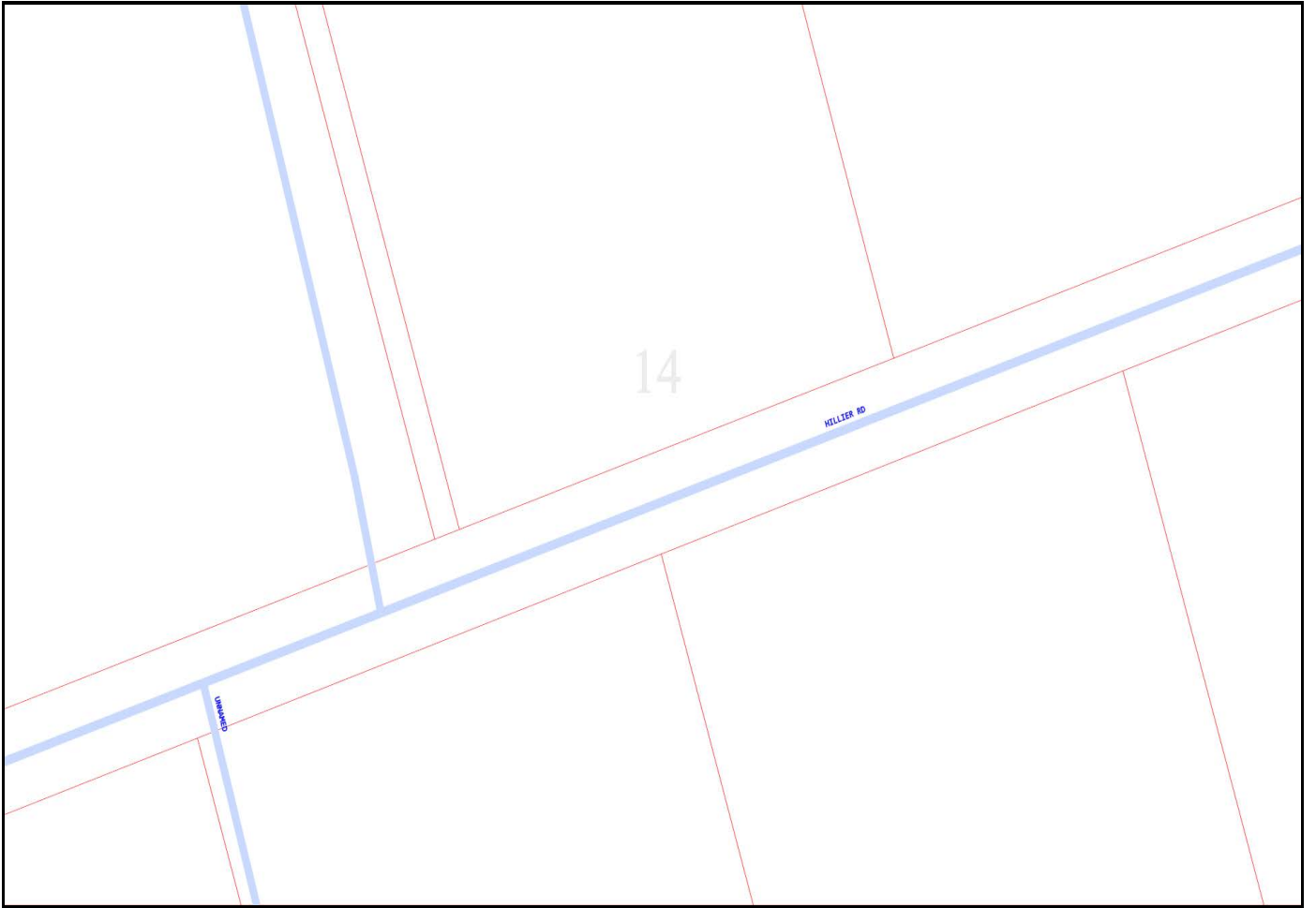




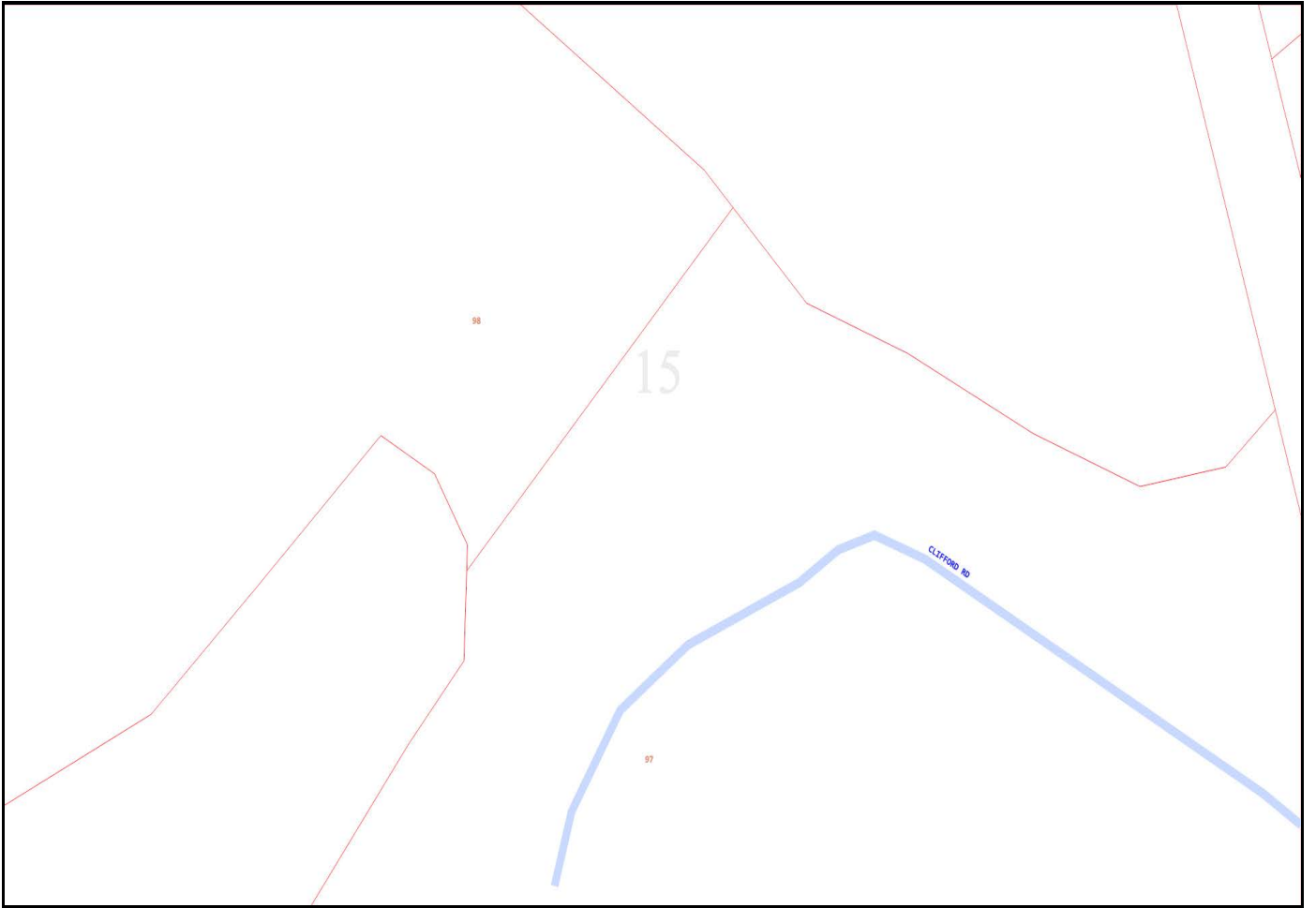


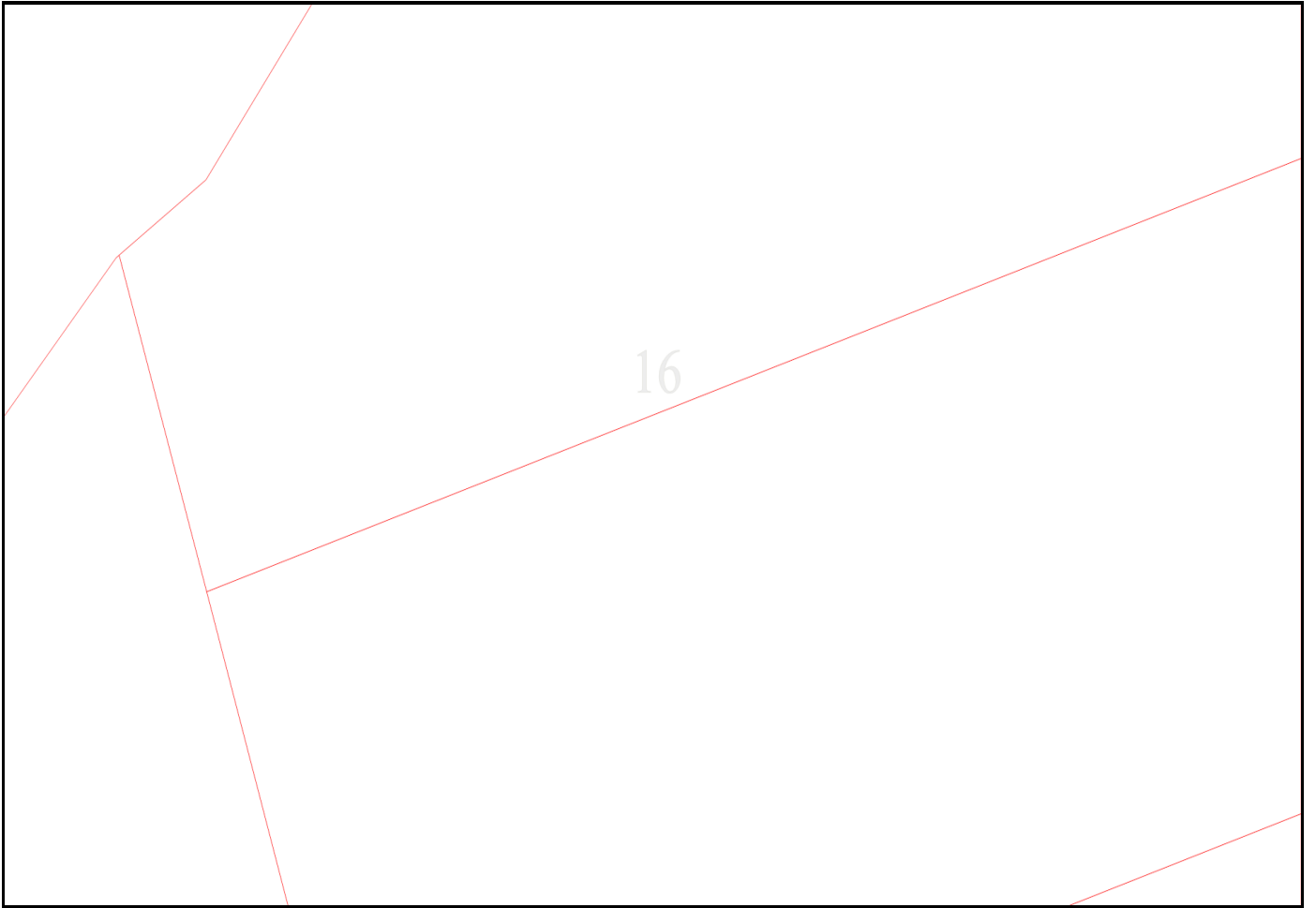


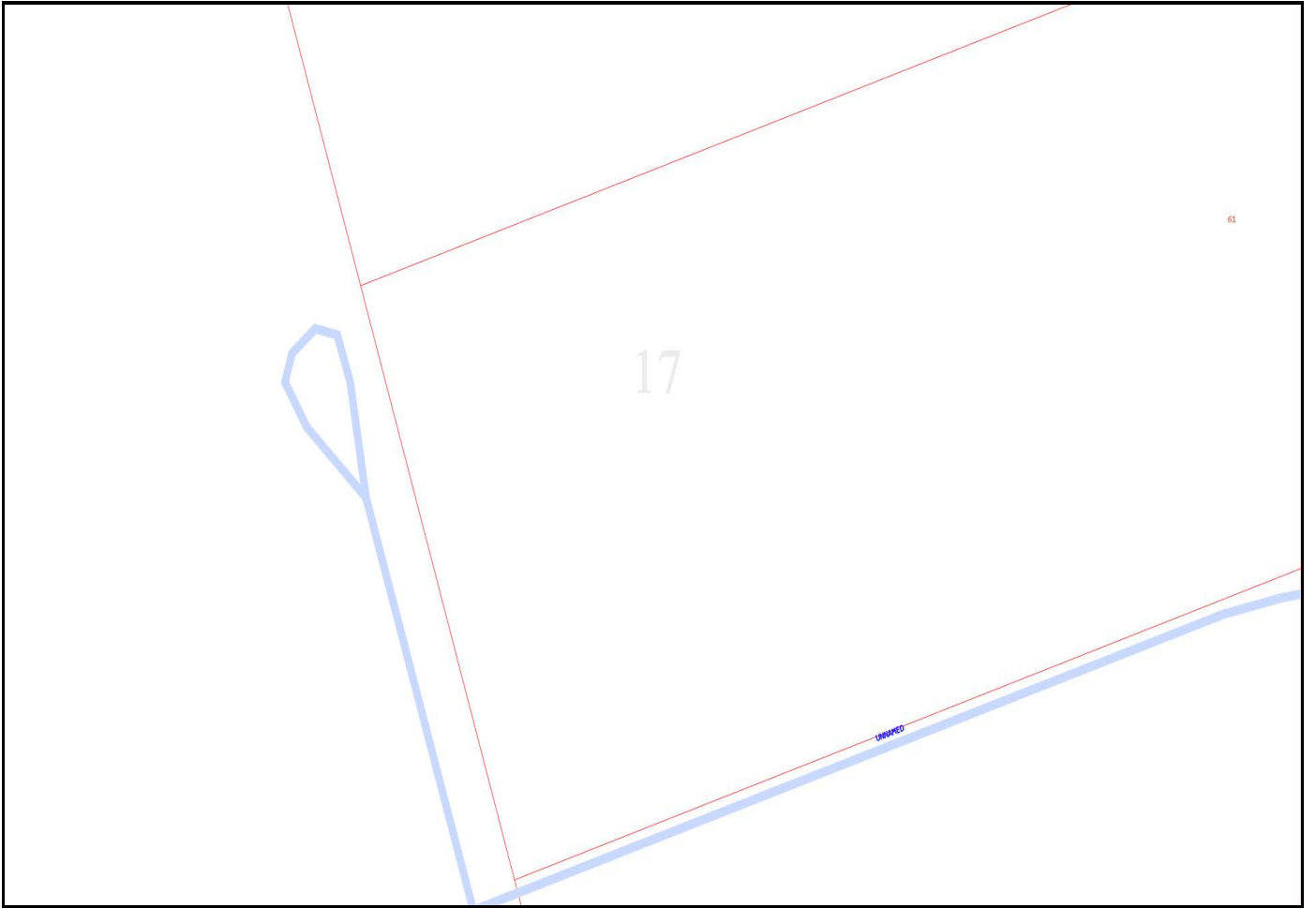


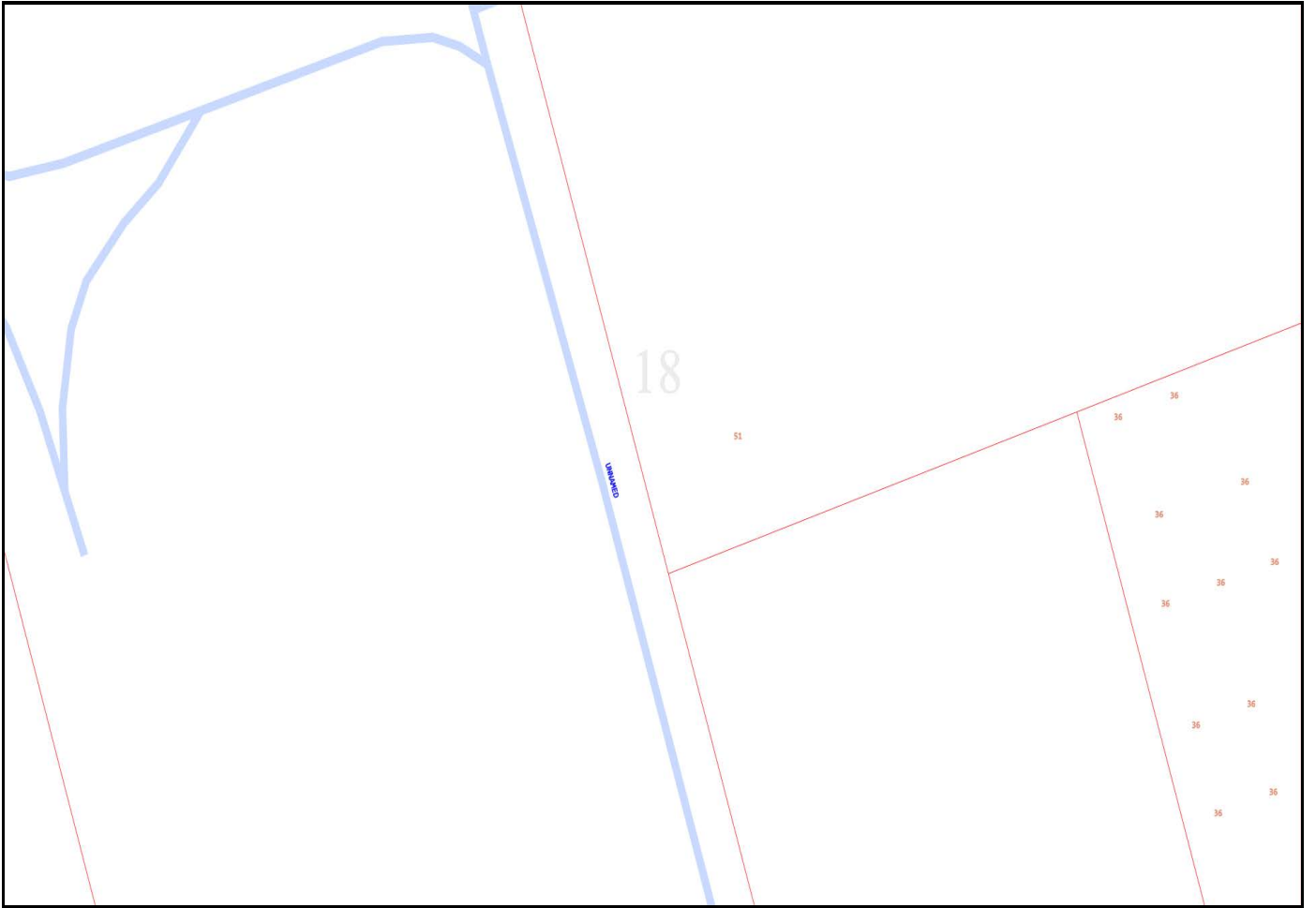


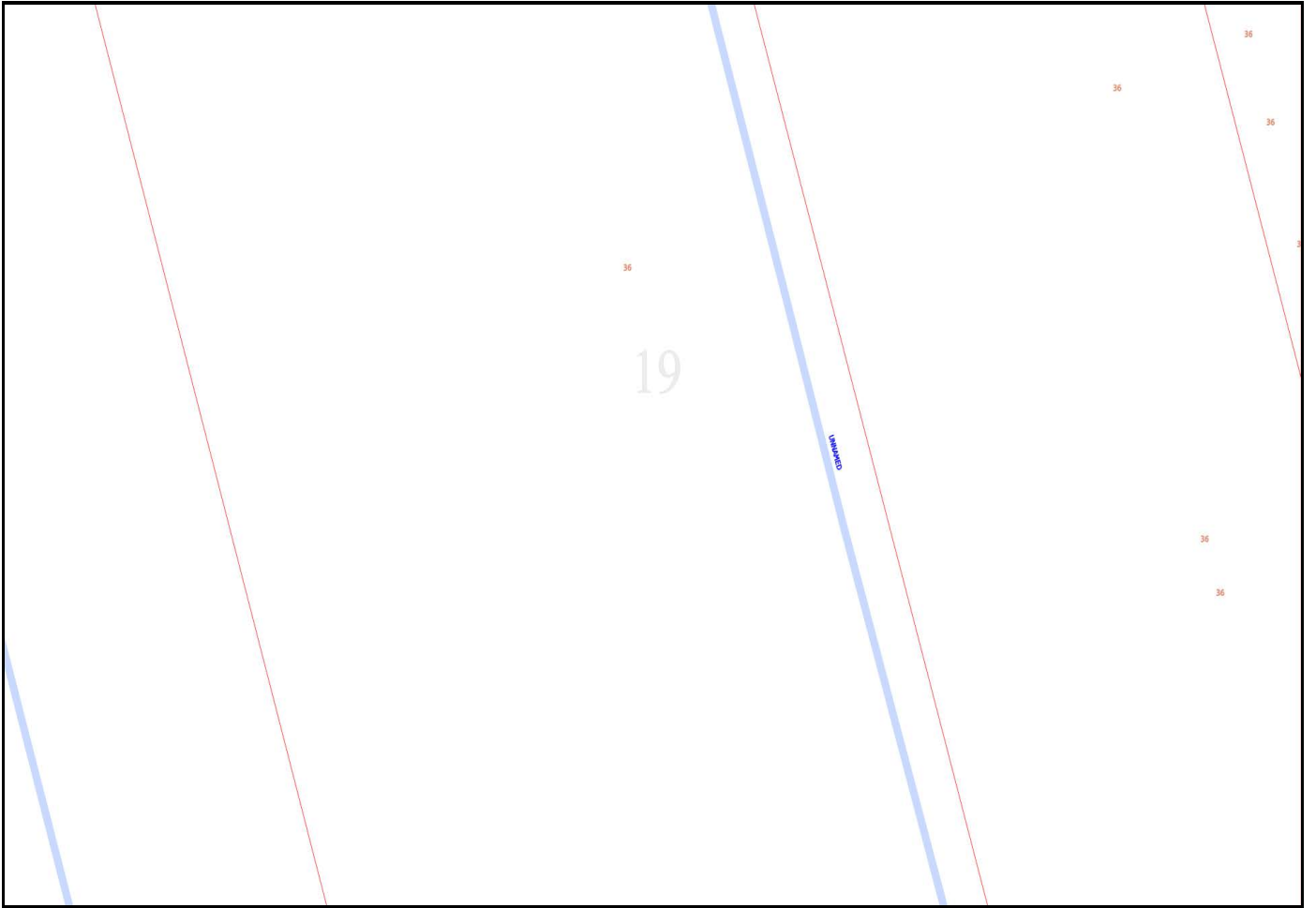


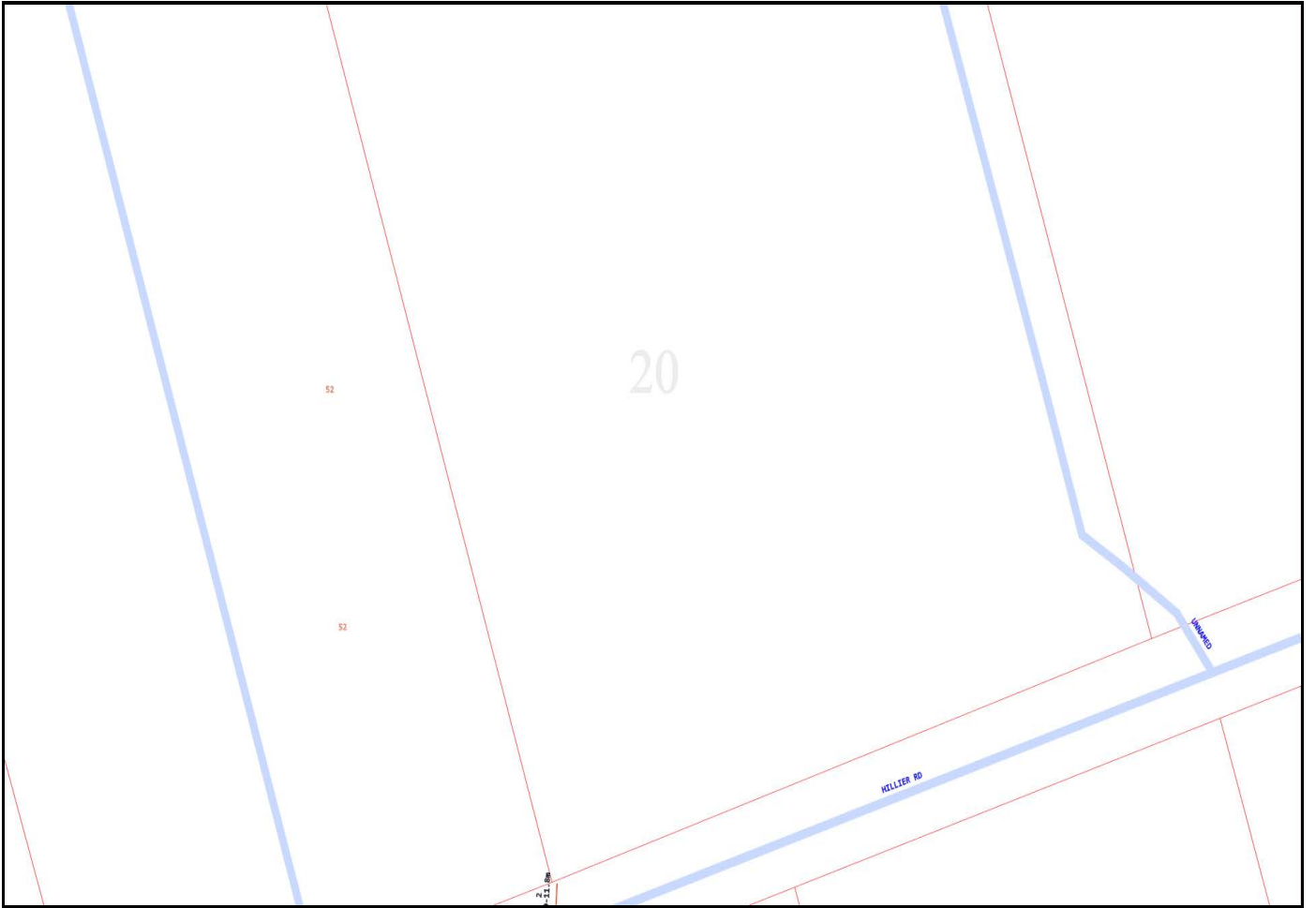


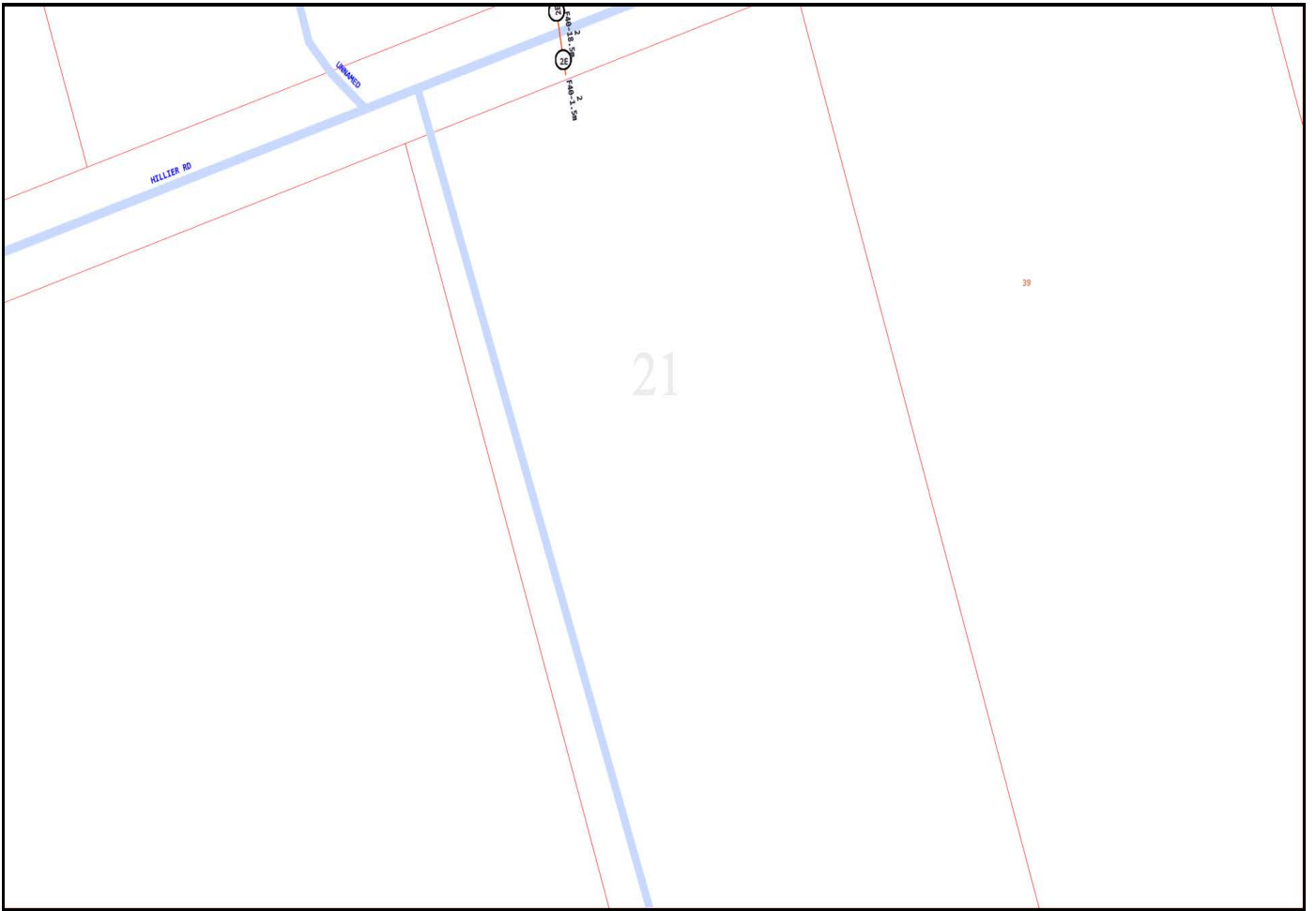












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