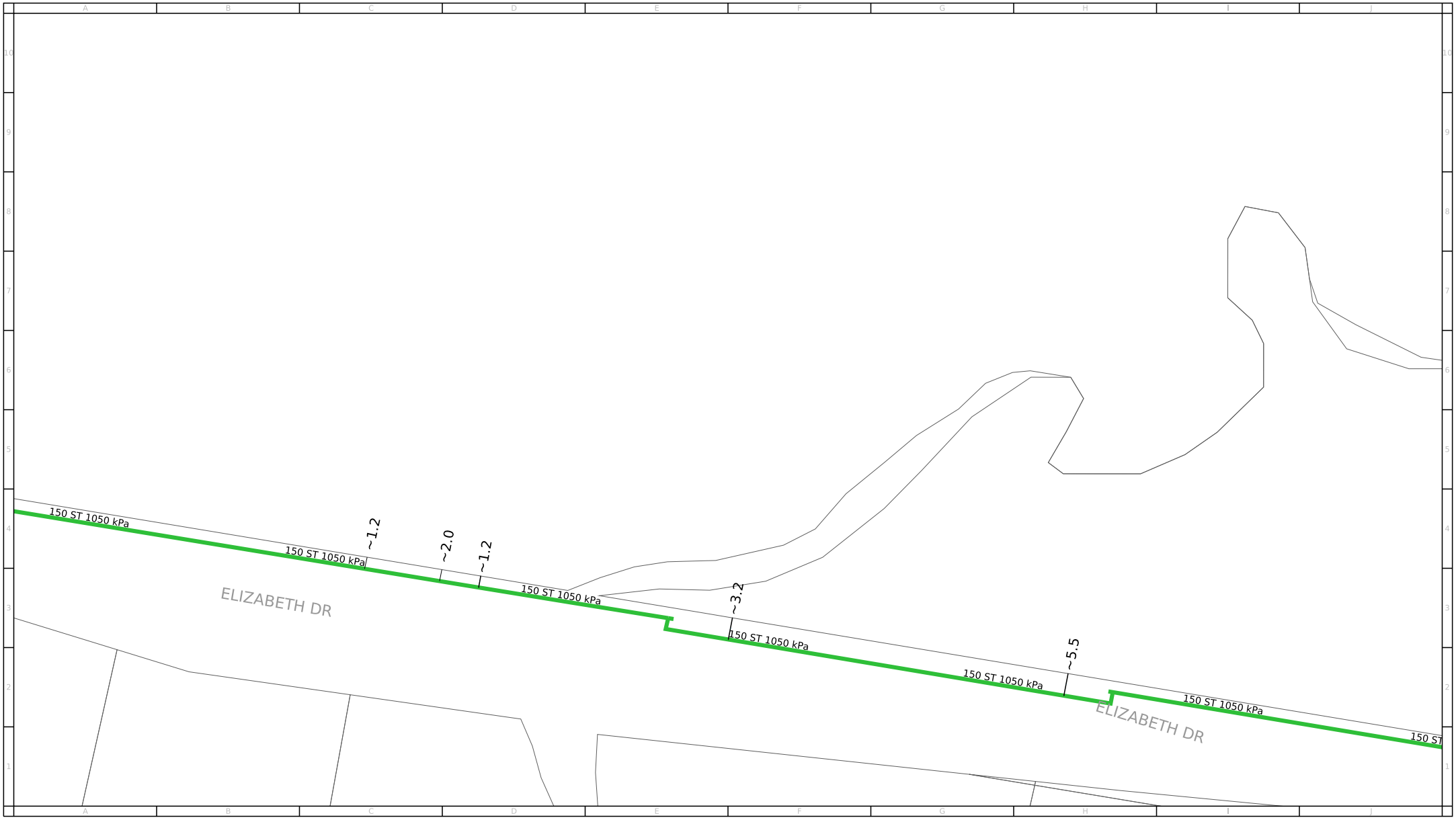
BYDA Authority: Jemena Gas Networks (NSW)

BYDA Location: 1669-1723 Elizabeth Dr Badgerys Creek NSW, 2555



Jemena
ABN 87 003 004 322

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

N
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Scale: 1:2000

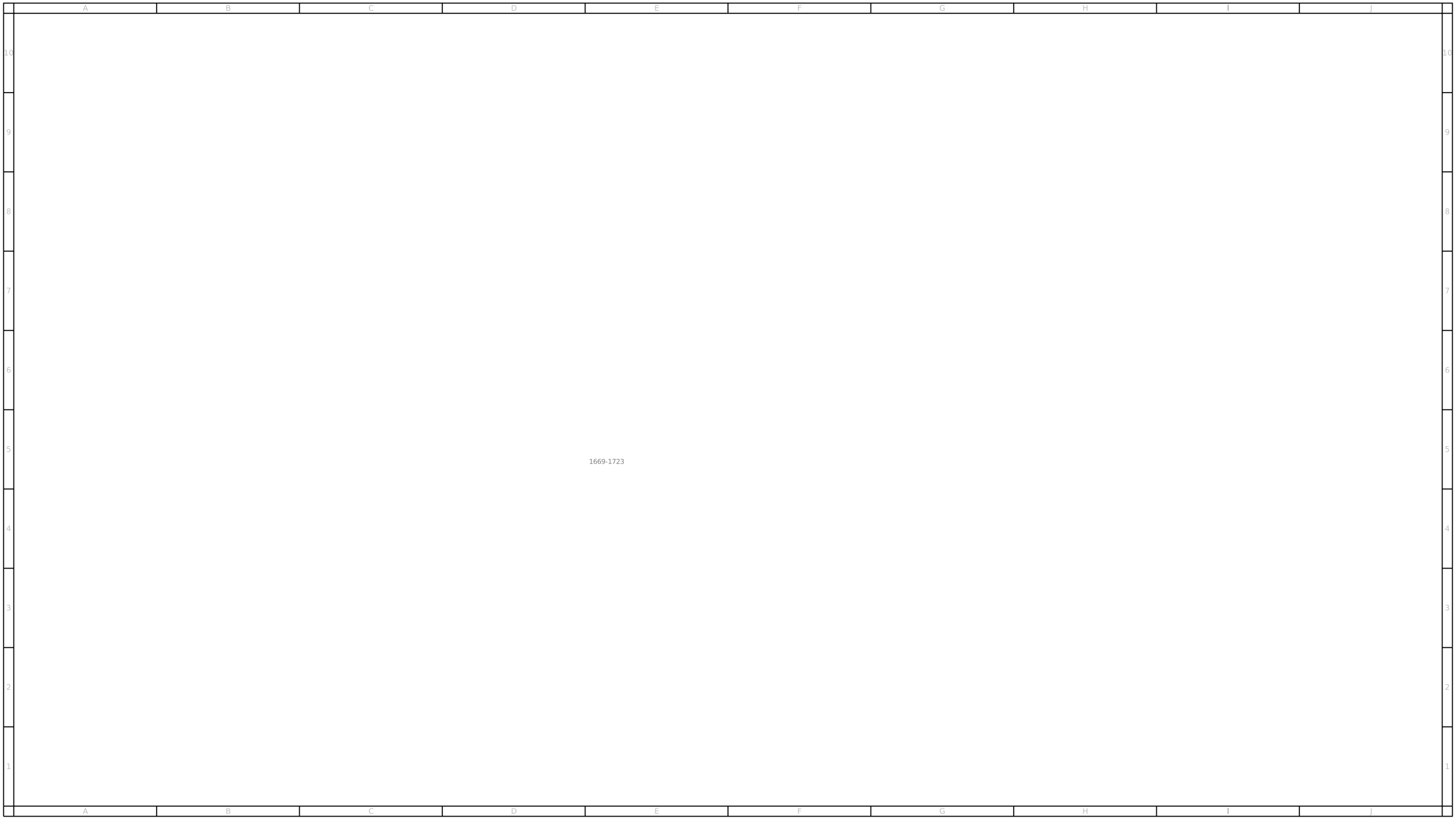
Issue Date: 08/01/2026
BYDA Seq No: 266376147
BYDA Job No: 52059414

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

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagramatic 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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BYDA Location: 1669-1723 Elizabeth Dr Badgerys Creek NSW, 2555



Jemena
ABN 87 003 004 322

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

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Scale: 1:2000

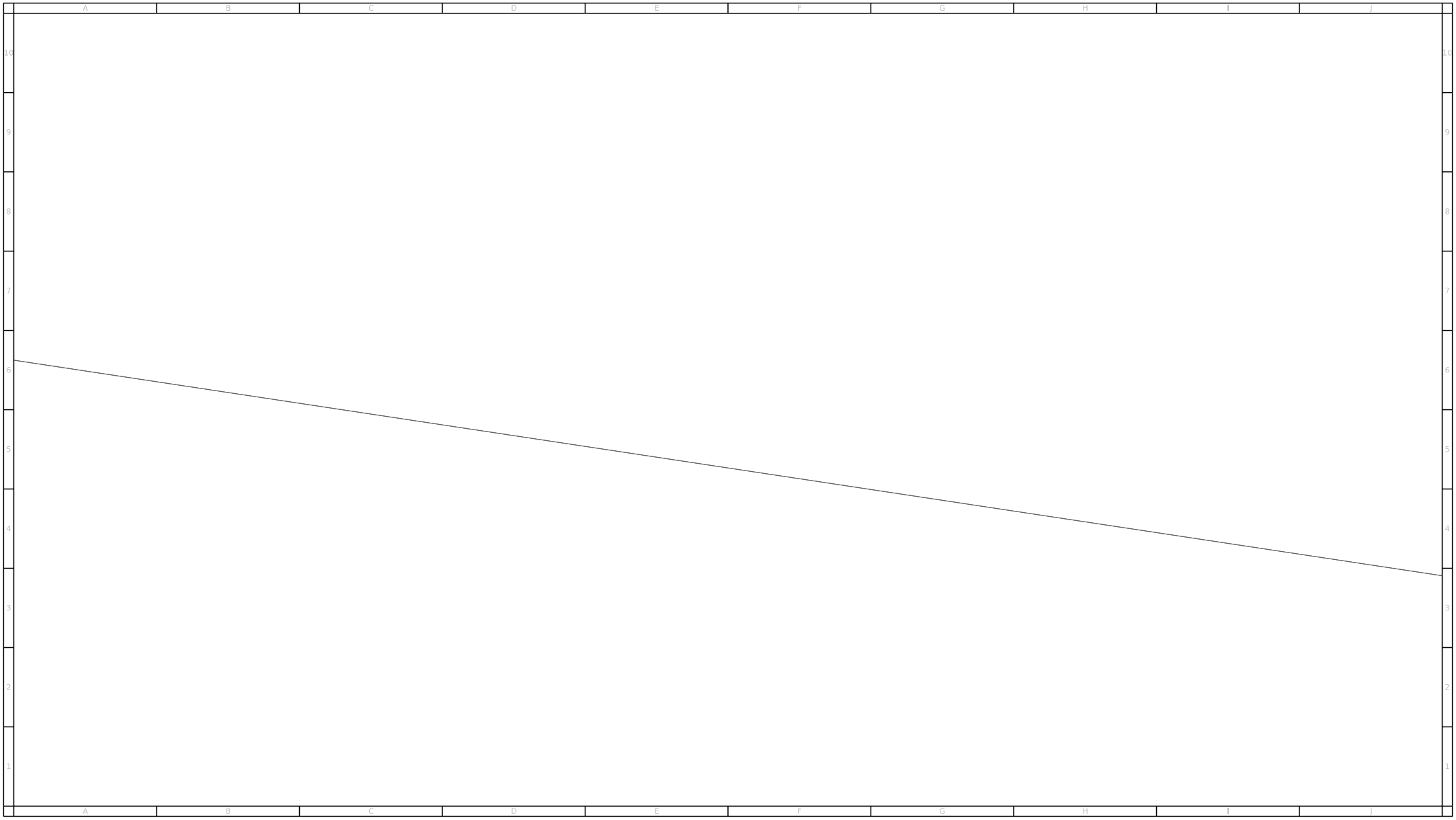
Issue Date: 08/01/2026
BYDA Seq No: 266376147
BYDA Job No: 52059414

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N W E S

Scale: 1:2000

Issue Date: 08/01/2026
BYDA Seq No: 266376147
BYDA Job No: 52059414

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

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Scale: 1:2000

Issue Date: 08/01/2026

BYDA Seq No: 266376147

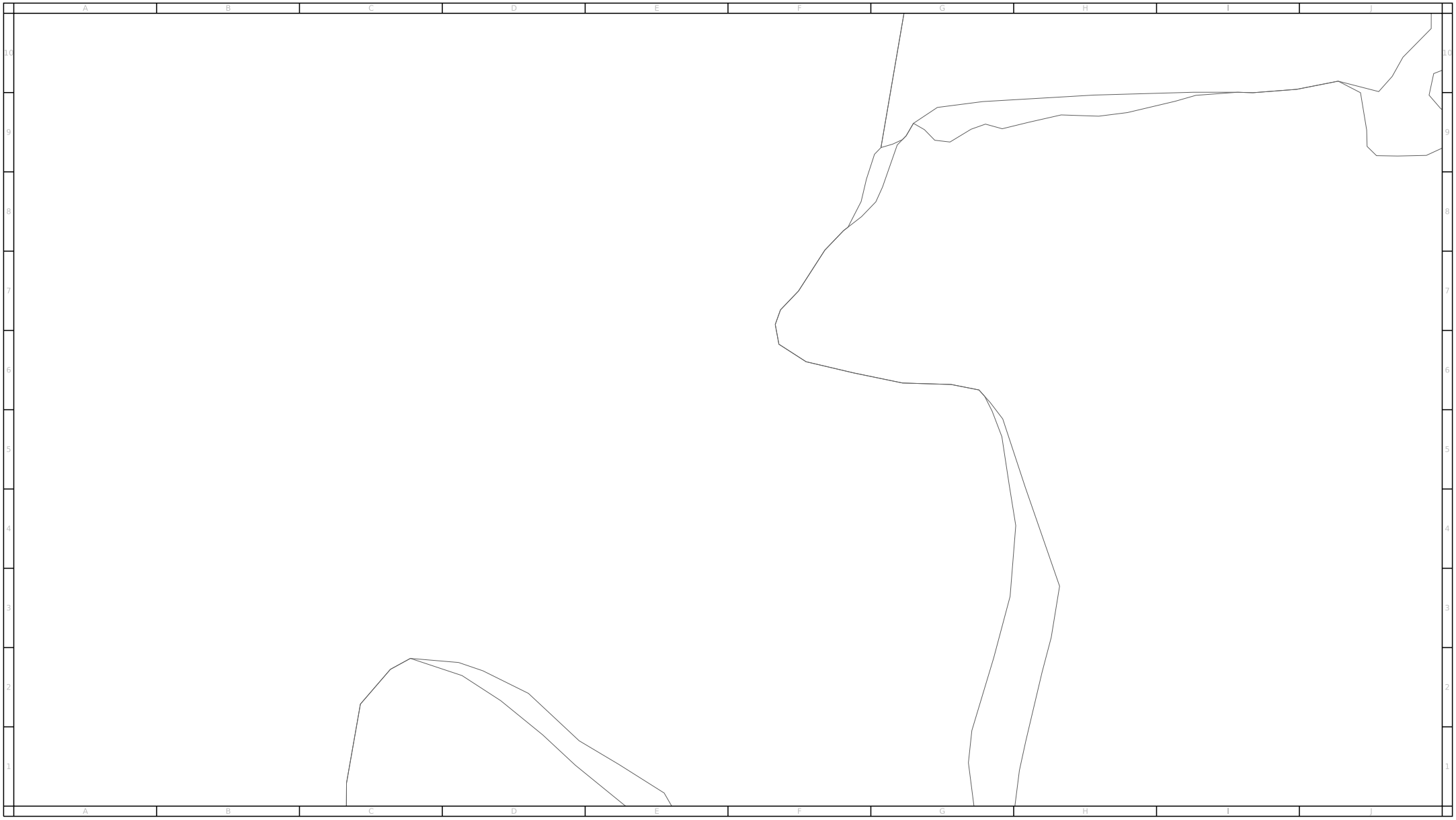
BYDA Job No: 52059414

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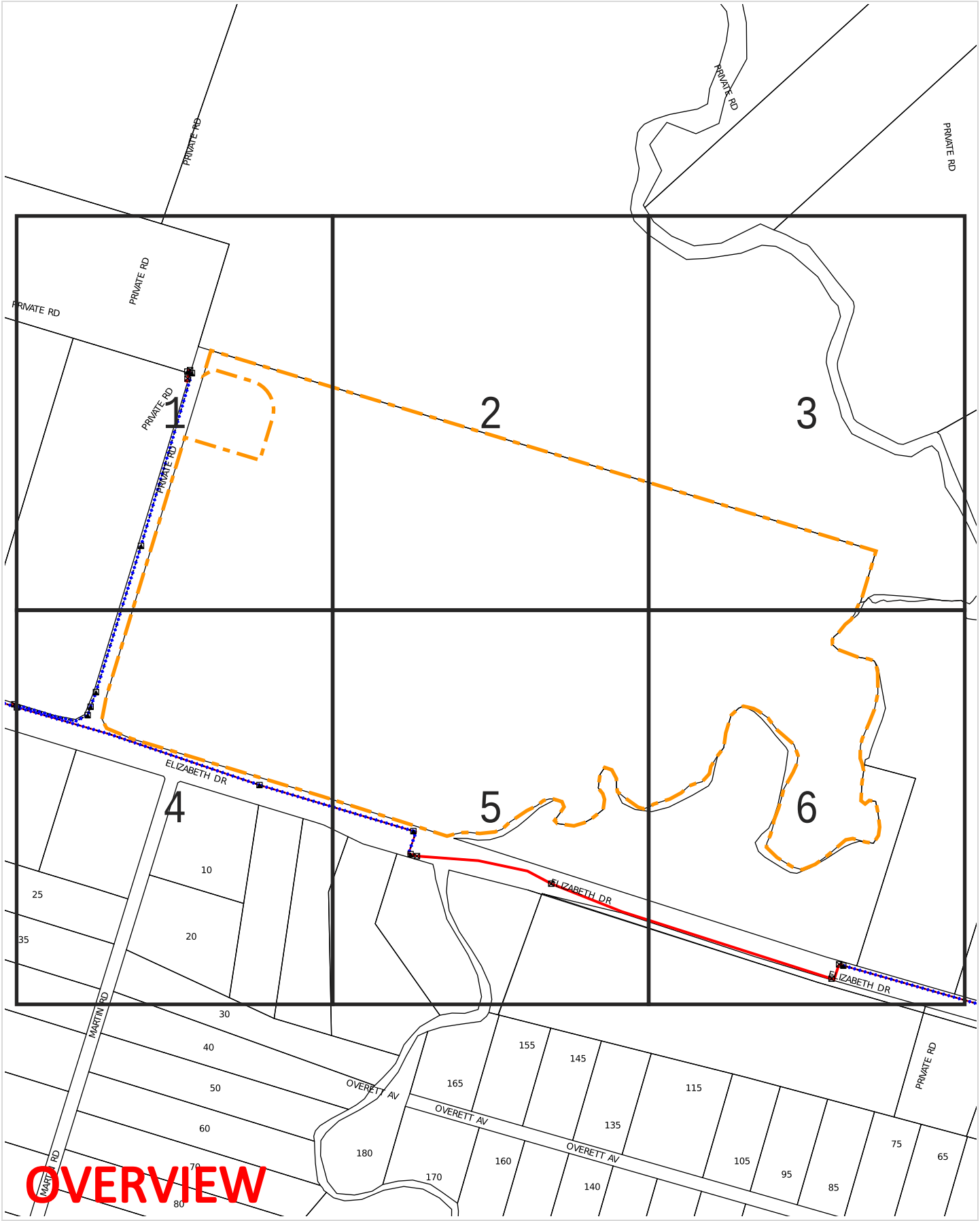
N W E S

Scale: 1:2000

Issue Date: 08/01/2026
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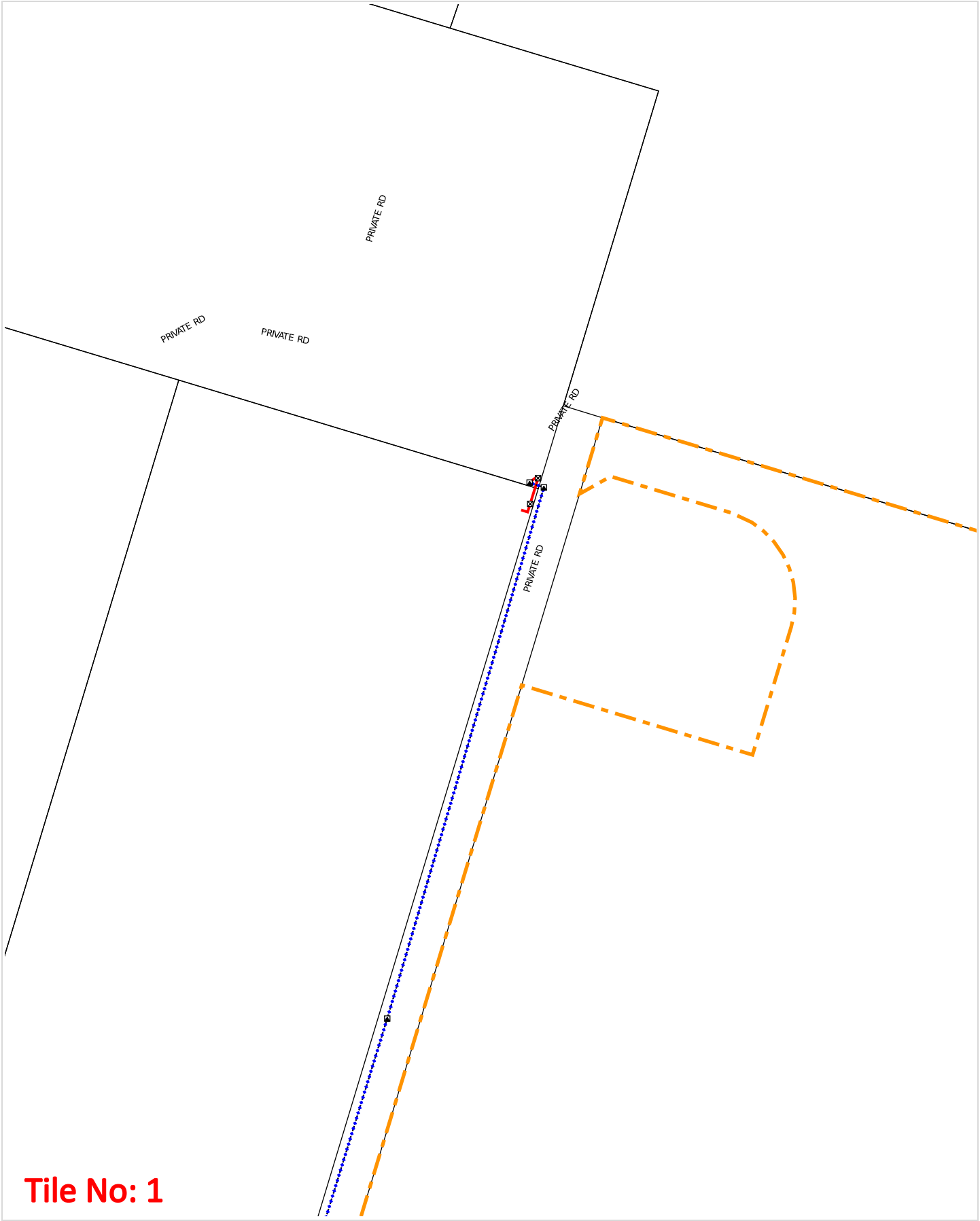


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Sequence Number: 266376148

Date Generated: 08 Jan 2026

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For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208



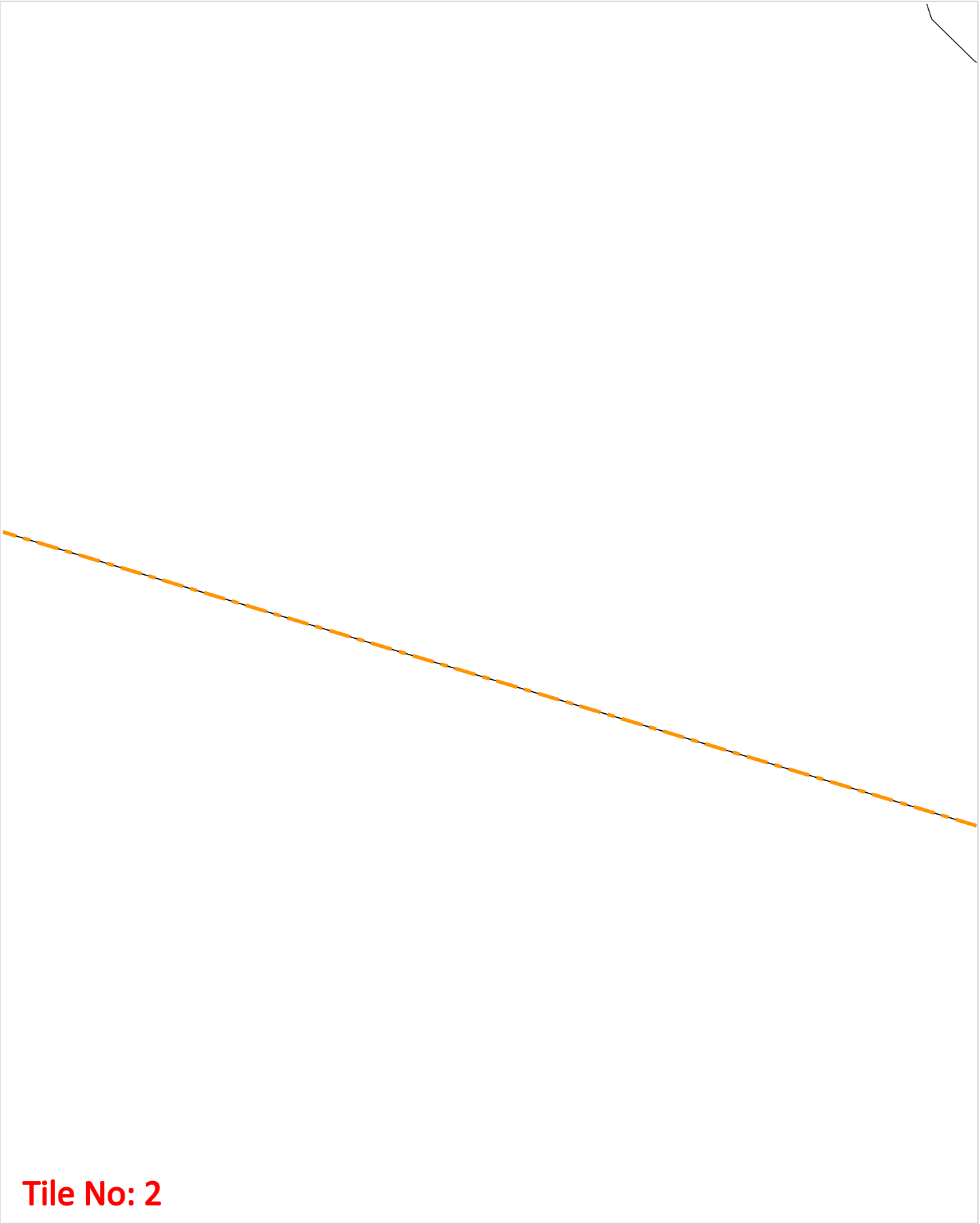
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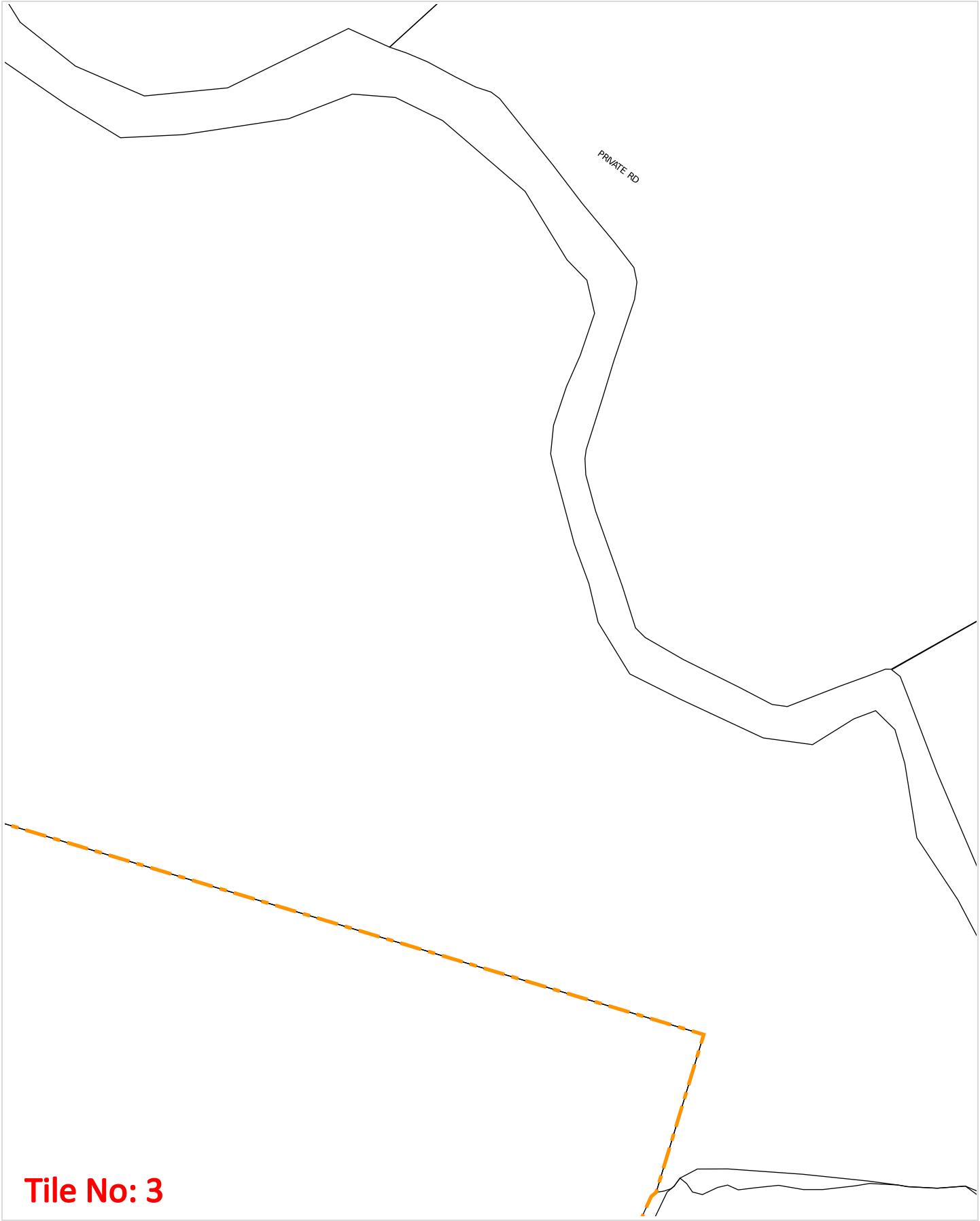
Tile No: 2

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Sequence Number: 266376148

Date Generated: 08 Jan 2026

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



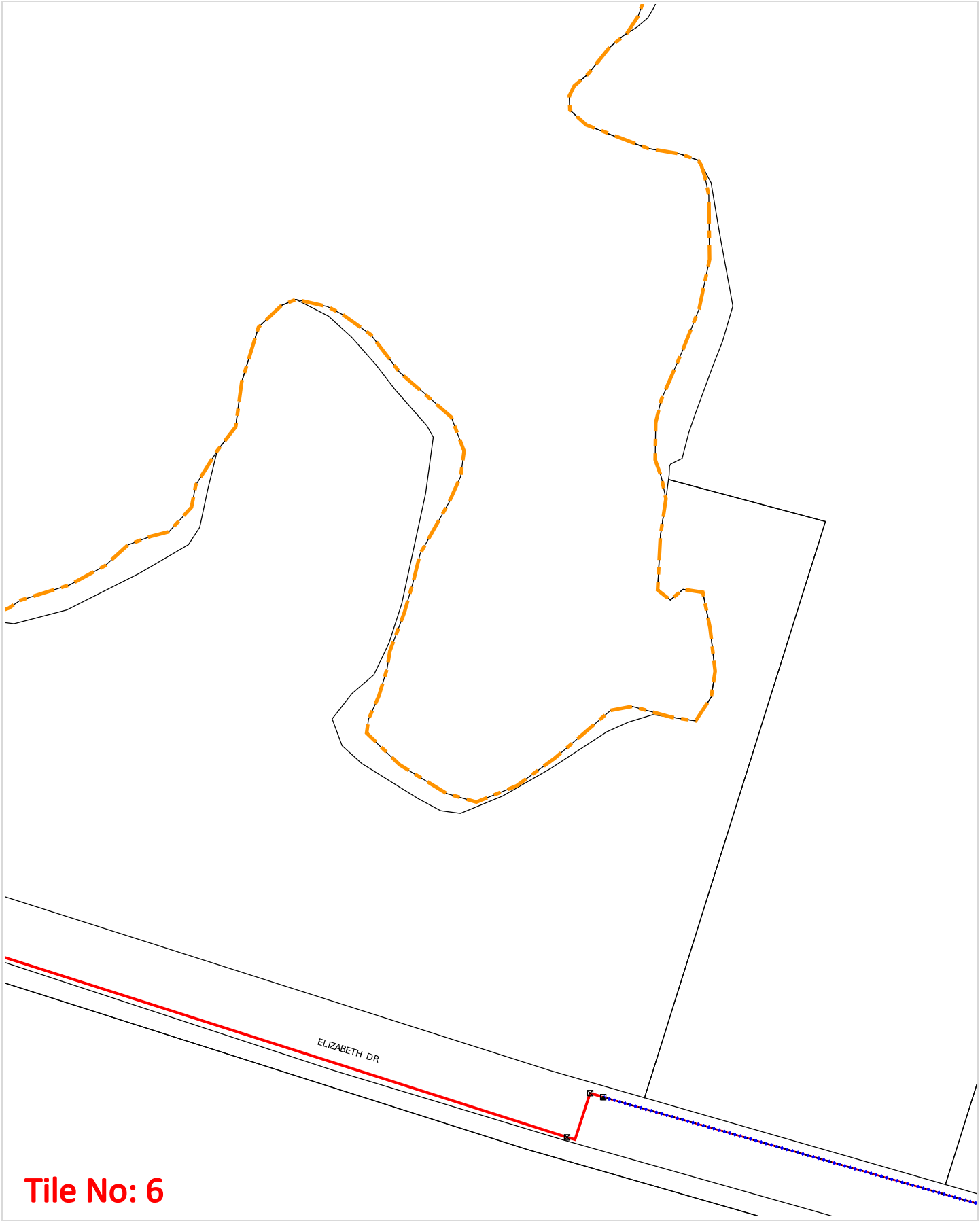
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Sequence Number: 266376148

Date Generated: 08 Jan 2026

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Sequence Number: 266376148

Date Generated: 08 Jan 2026

For all Optus DBYD plan enquiries –
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For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

A0



DBYD Address:
1669-1723 Elizabeth Dr
Badgerys Creek NSW 2555

DBYD Job No: 52059414
DBYD Sequence No: 266376149

SYDNEY WATER CORPORATION
No warranty is given that the information shown is complete or accurate.

Copyright Reserved Sydney Water 2026

Scale: 1:2000
Date of Production: 08/01/2026 13:25:49

0m 40m 80m 120m 160m

PENRITH CITY COUNCIL

Sequence No: 266376150
Job No: 52059414
Location: 1669-1723 Elizabeth Dr, Badgerys Creek, NSW 2555

BEFORE YOU DIG www.byda.com.au



Overview

Legend

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

N

Scale: 1:5363
Expires: 05 Feb 2026

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

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

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



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.
- 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.

OVERVIEW ONLY
ASSETS ARE ONLY SHOWN ON DETAILED TILES (PAGES)

N

NOT TO SCALE

BYDA Sequence No.: 266376151

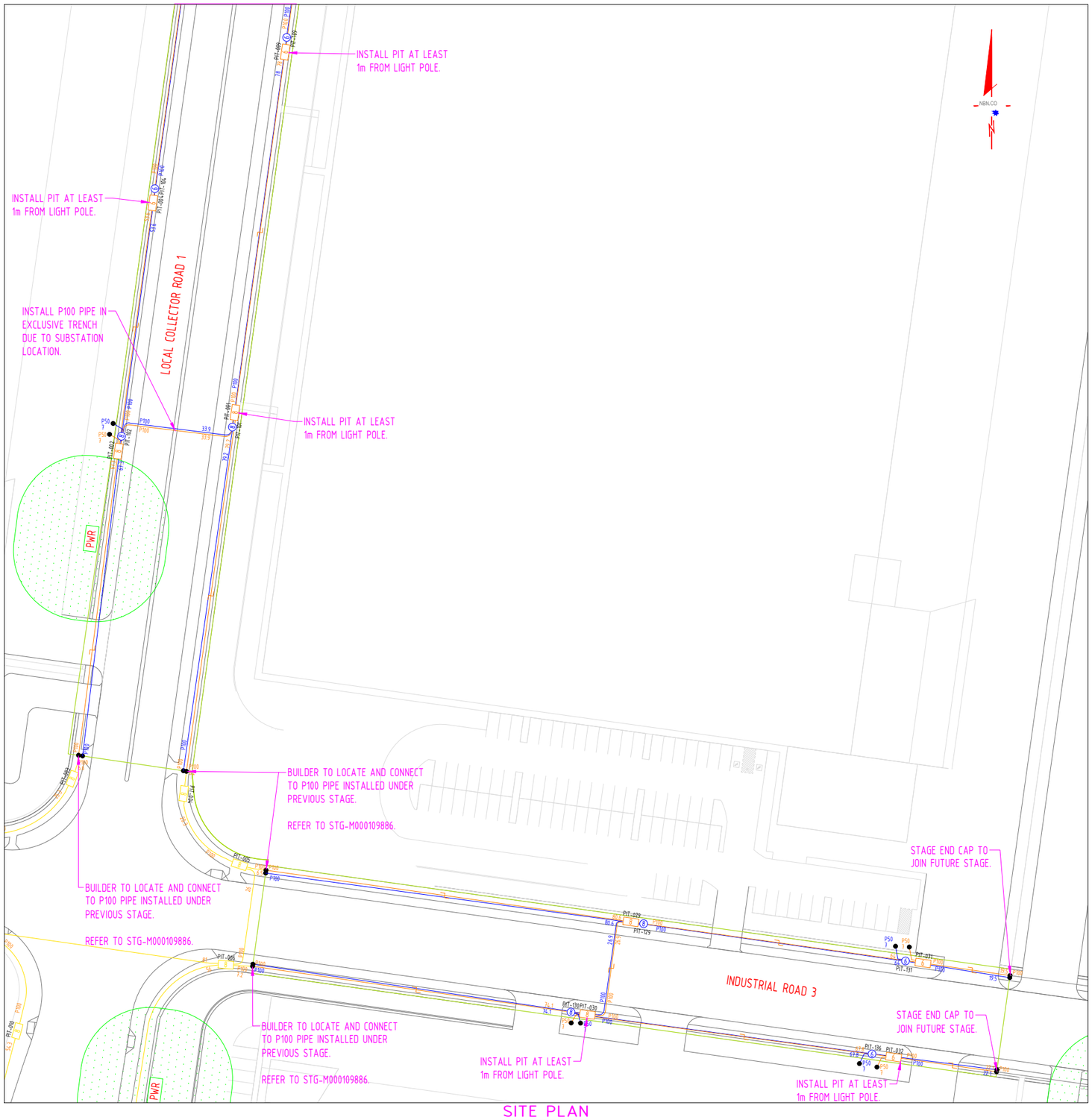
Issued Date: 08 Jan 2026

Cadastre: © Land and Property Information 2015, 2016

APPENDIX B – Relevant Utility Design Drawings

NB: Design drawings included are noted to not necessarily be the final version of the approved/constructed drawings for each service however key details discussed in this report are consistent with BYD records and the included drawings.

JOINS SHEET 2



SITE PLAN

SDU Development Information

Development Name:
ELIZABETH ENTERPRISE MIRVAC STAGE 1A

Developer Company:
EDGEWATER CONNECTIONS

Development Address:
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555

Authorised Rep:
Frank Kranjc
Phone: 0449 591 754
E-Mail: frank@edgewaterconnections.com.au

NBN & TELSTRA
PIT AND PIPE DESIGN

Stage Number:
1A

Design Revision:
A

NOTES:

1. ALL PIT & PIPE INFRASTRUCTURE IS TO BE INSTALLED ACCORDING TO NBN Co's AND TELSTRA STANDARDS.

2. ALL CONSTRUCTION TO BE INSTALLED IN SHARED TRENCH UNLESS OTHERWISE SHOWN.

3. CONDUITS INSTALLED IN SHARED TRENCHES MUST NOT BE VERTICALLY ABOVE OR BELOW OTHER UTILITIES.
MANDATORY SEPARATION IS TO BE MAINTAINED AT ALL TIMES.
MINIMUM SEPARATIONS ARE:
- LV CABLES ~ 100mm
- HV CABLES ~ 300mm
- GAS MAIN (≤Φ75mm) ~ 150mm
- GAS MAIN (≥Φ110mm) ~ 300mm

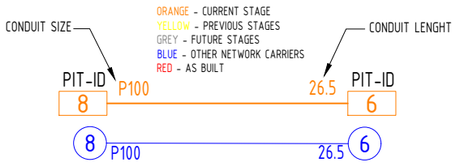
REFER FIGURE 1 - TYPICAL CROSS SECTION DIAGRAM.

4. NO PITS TO BE INSTALLED WITHIN 15m FROM ANY SUBSTATION.

5. PITS TO BE INSTALLED CLEAR OF PROPOSED DRIVEWAYS.

6. ALL CONDUITS TO BE ROPED.

7. NO PITS TO BE INSTALLED WITHIN 1m FROM ANY STREET LIGHT POLE OR OTHER CARRIER PITS.



Shared Trench

6 — Telstra 6 Pit (Double Lid) (1360mmX555mmX650mm)

8 — Telstra 8 Pit (Double Lid) (1360mmX555mmX860mm)

PIT-ID 6 — Distribution/Local Network Connection Pit (1360mmX555mmX650mm)

PIT-ID 8 — Distribution/Local Network Connection Pit (1360mmX555mmX860mm)

Pipe Cap

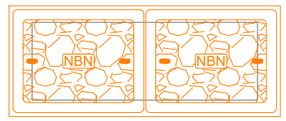
Pad Mount Sub-station

BILL OF MATERIAL

NO OF LOTS: 0

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	47	2808.1
5	0	P50	12	84
6	16	P20	0	0
8	15			
9	0			

TOTAL NUMBER OF PITS: 31
TOTAL NUMBER OF MANHOLES: 0
TOTAL NUMBER OF CONDUITS: 59
TOTAL LENGTH OF CONDUITS: 2892.1



TYPE 6/8 PIT

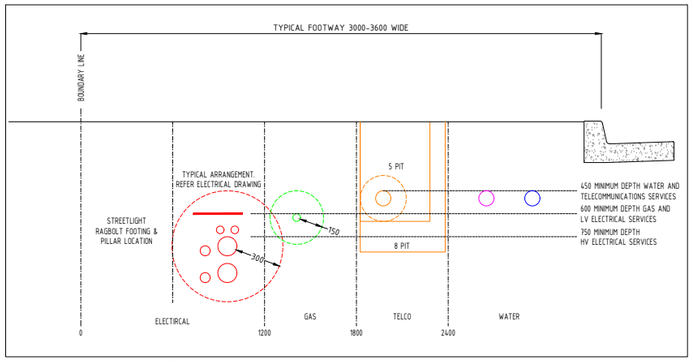


FIGURE 1 - TYPICAL SOCC CROSS SECTION

SAFETY FIRST
SAFETY STARTS WITH YOU

DANGER
LASER BEAM
EYE PROTECTION MUST BE WORN

STAFF WORKING ON THIS ESTIMATE PLEASE NOTE:
The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.

DIAL BEFORE YOU DIG
www.1100.com.au

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-				
-				
-				
-				
-				
-				
-				
A	08.10.2025	K. CARREON	INITIAL ISSUE	F.KRANJC

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	SIGNATURE	DATE
DD		
WD		
AB		

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Australia's broadband network

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

EDGEWATER CONNECTIONS



DRAWING TITLE:
NBN AND TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1A
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#:	949119		
STATE:	NSW	REGION:	
FSA:		SAM:	ADA:
PROJECT No:	NBN AND TELSTRA		
CADREF No:	EWC5509		
SCALE	N/A	SHEET No.	1 OF 3
REV.	A		

STAGE END CAP FOR NBN TO EXTEND INTO THE NETWORK.

INSTALL PIT AT LEAST 1m FROM LIGHT POLE.

STAGE END CAP TO JOIN FUTURE STAGE.

INSTALL PIT AT LEAST 1m FROM LIGHT POLE.

STAGE END CAP TO JOIN FUTURE STAGE.

INSTALL PIT AT LEAST 1m FROM LIGHT POLE.

INSTALL PIT AT LEAST 1m FROM LIGHT POLE.

LOCAL COLLECTOR ROAD 2

INDUSTRIAL ROAD 1

LOCAL COLLECTOR ROAD 1

PWR

INSTALL PIT AT LEAST 1m FROM LIGHT POLE.

1669

JOINS SHEET 3

JOINS SHEET 1

NBN.CO

DIAL BEFORE YOU DIG www.1100.com.au

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
-				
-				
-				
-				
-				
-				
-				
A	08.10.2025	K. CARREON	INITIAL ISSUE	F.KRANJC

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	SIGNATURE	DATE
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☐ WD		
☐ AB		

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Australia's broadband network

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

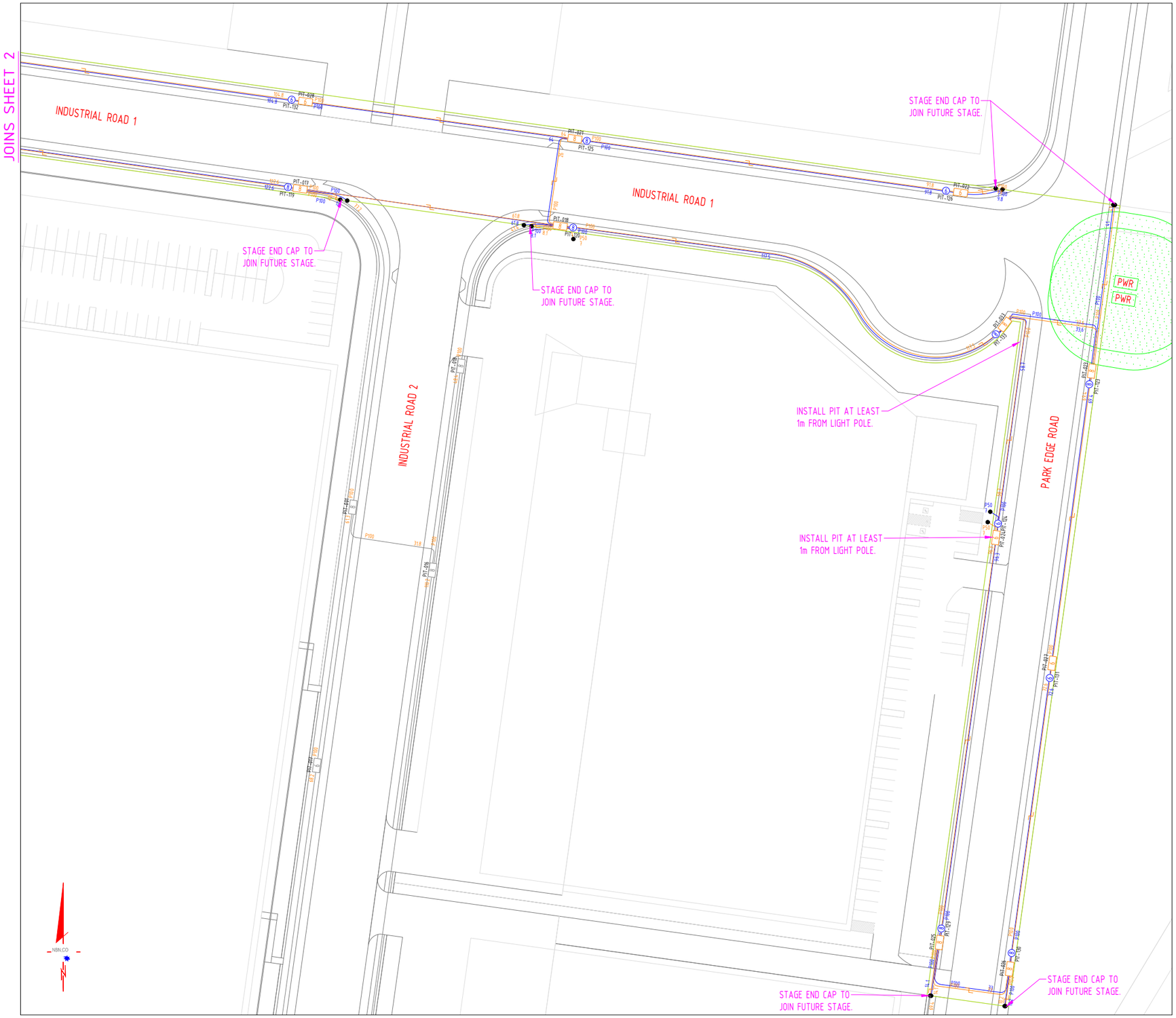
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

EDGEWATER CONNECTIONS

KEY PLAN

DRAWING TITLE:
NBN AND TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1A
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#: 949119		
STATE: NSW	REGION:	
FSA:	SAM:	ADA:
PROJECT No: NBN AND TELSTRA		
CADREF No: EWC5509		
SCALE N/A	SHEET No. 2 OF 3	REV. A



TELSTRA BILL OF MATERIAL

NO OF LOTS: 0

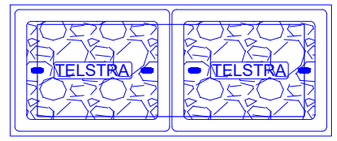
PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	47	2808.1
5	0	P50	12	84
6	16	P20	0	0
8	15			
9	0			

TOTAL NUMBER OF PITS: 31

TOTAL NUMBER OF MANHOLES: 0

TOTAL NUMBER OF CONDUITS: 59

TOTAL LENGTH OF CONDUITS: 2892.1



TYPE 6/8 PIT

DIAL BEFORE YOU DIG www.1100.com.au

REV	DATE	DRAFTER	DESCRIPTION	APPROVED
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A	08.10.2025	K. CARREON	INITIAL ISSUE	F.KRANJC

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	SIGNATURE	DATE
☐ DD		
☐ WD		
☐ AB		

QUALITY RECORD :

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Australia's broadband network

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Level 3 ASP #2508

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Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
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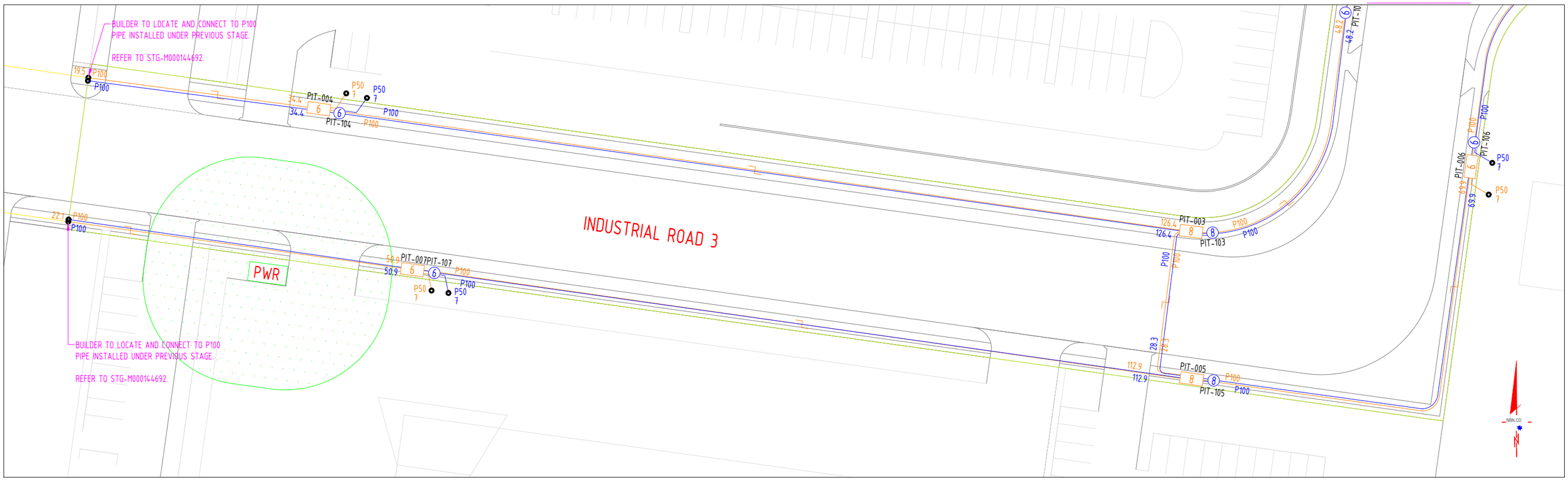
EDGEWATER CONNECTIONS



DRAWING TITLE:
NBN AND TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1A
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#:	949119		
STATE:	NSW	REGION:	
FSA:	SAM:	ADA:	
PROJECT No:	NBN AND TELSTRA		
CADREF No:	EWC5509		
SCALE	SHEET No.		REV.
N/A	3 OF 3		A

JOINS SHEET 2



SITE PLAN

SDU Development Information

Development Name: ELIZABETH ENTERPRISE MIRVAC STAGE 1B	
Developer Company: EDGEWATER CONNECTIONS	
Development Address: 1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555	
Authorised Rep: Frank Kranjc Phone: 0449 591 754 E-Mail: frank@edgewaterconnections.com.au	
NBN AND TELSTRA PIT AND PIPE DESIGN	Stage Number: 1B Design Revision: A

NOTES:

1. ALL PIT & PIPE INFRASTRUCTURE IS TO BE INSTALLED ACCORDING TO NBN Co's AND TELSTRA STANDARDS.

2. ALL CONSTRUCTION TO BE INSTALLED IN SHARED TRENCH UNLESS OTHERWISE SHOWN.

3. CONDUITS INSTALLED IN SHARED TRENCHES MUST NOT BE VERTICALLY ABOVE OR BELOW OTHER UTILITIES. MANDATORY SEPARATION IS TO BE MAINTAINED AT ALL TIMES. MINIMUM SEPARATIONS ARE:
- LV CABLES ~ 100mm
- HV CABLES ~ 300mm
- GAS MAIN (≤Ø75mm) ~ 150mm
- GAS MAIN (≥Ø110mm) ~ 300mm

REFER FIGURE 1 - TYPICAL CROSS SECTION DIAGRAM.

4. NO PITS TO BE INSTALLED WITHIN 15m FROM ANY SUBSTATION.

5. PITS TO BE INSTALLED CLEAR OF PROPOSED DRIVEWAYS.

6. ALL CONDUITS TO BE ROPED.

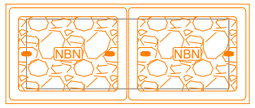
7. NO PITS TO BE INSTALLED WITHIN 1m FROM ANY STREET LIGHT POLE OR OTHER CARRIER PITS.

BILL OF MATERIAL

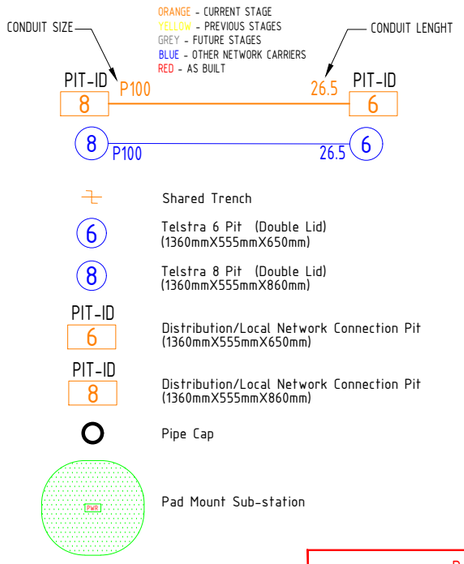
NO OF LOTS: 0

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	29	1583.2
5	0	P50	5	35
6	12	P20	0	0
8	10			
9	0			

TOTAL NUMBER OF PITS:	22
TOTAL NUMBER OF MANHOLES:	0
TOTAL NUMBER OF CONDUITS:	34
TOTAL LENGTH OF CONDUITS:	1618.2



TYPE 6/8 PIT



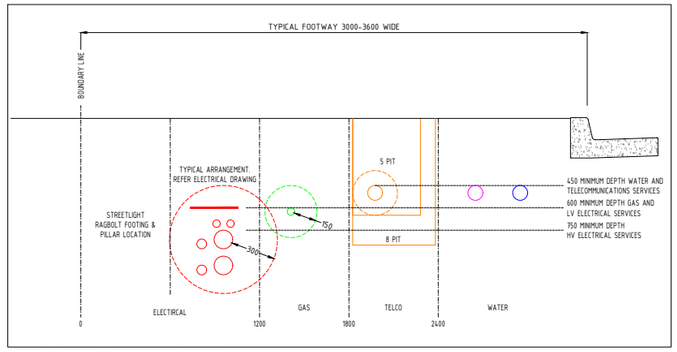


FIGURE 1 - TYPICAL SOCC CROSS SECTION

DANGER
LASER BEAM
EYE PROTECTION MUST BE WORN

SAFETY FIRST
SAFETY STARTS WITH YOU

STAFF WORKING ON THIS ESTIMATE PLEASE NOTE: The location of other authorities services which may affect this work have not been obtained by the estimator. Constructor to obtain service information before commencing.

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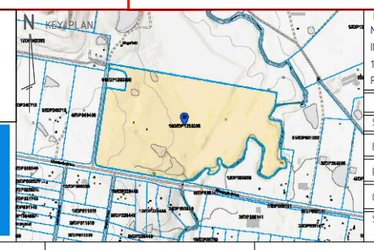
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Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: edgewaterconnections.com.au

EDGEWATER CONNECTIONS

KEY PLAN



DRAWING TITLE:
NBN AND TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1B
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#: 949119		
STATE: NSW	REGION:	
FSA:	SAM:	ADA:
PROJECT No: NBN AND TELSTRA		
CADREF No: EWC5509		
SCALE N/A	SHEET No. 1 OF 4	REV. A

JOINS SHEET 3

JOINS SHEET 3



JOINS SHEET 1

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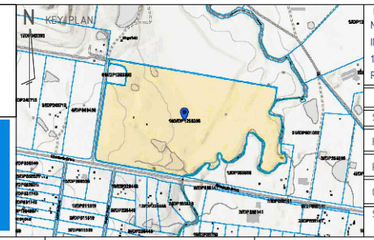
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EDGEWATER CONNECTIONS

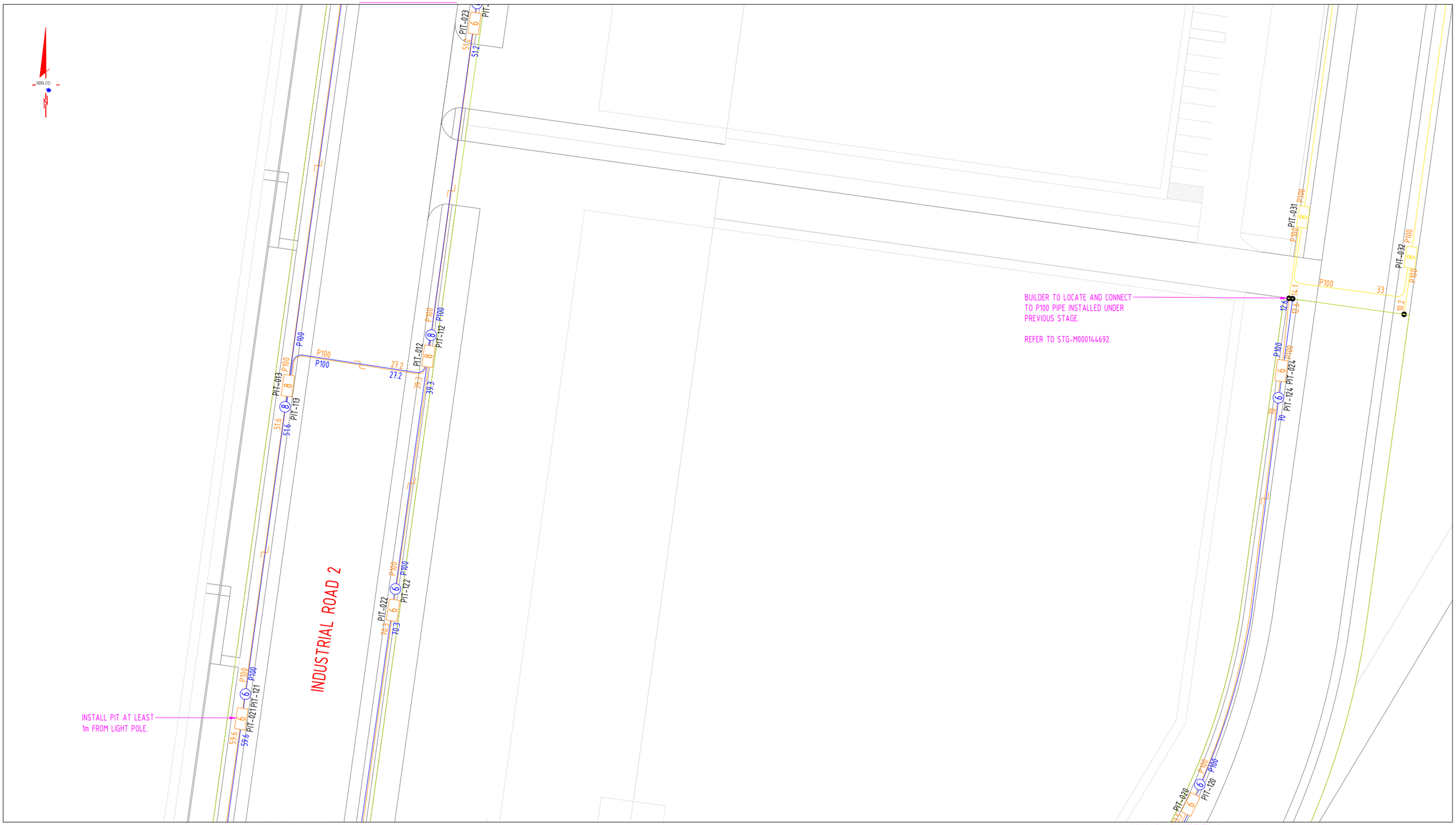
N KEY PLAN



DRAWING TITLE:
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INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1B
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#: 949119		
STATE: NSW	REGION:	
FSA:	SAM:	ADA:
PROJECT No: NBN AND TELSTRA		
CADREF No: EWC5509		
SCALE: N/A	SHEET No.: 2 OF 4	REV.: A

JOINS SHEET 4



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☐ WD		
☐ AB		

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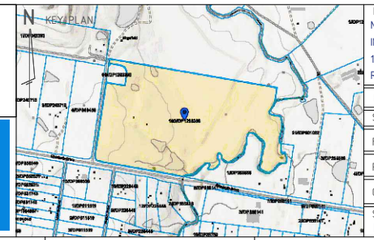
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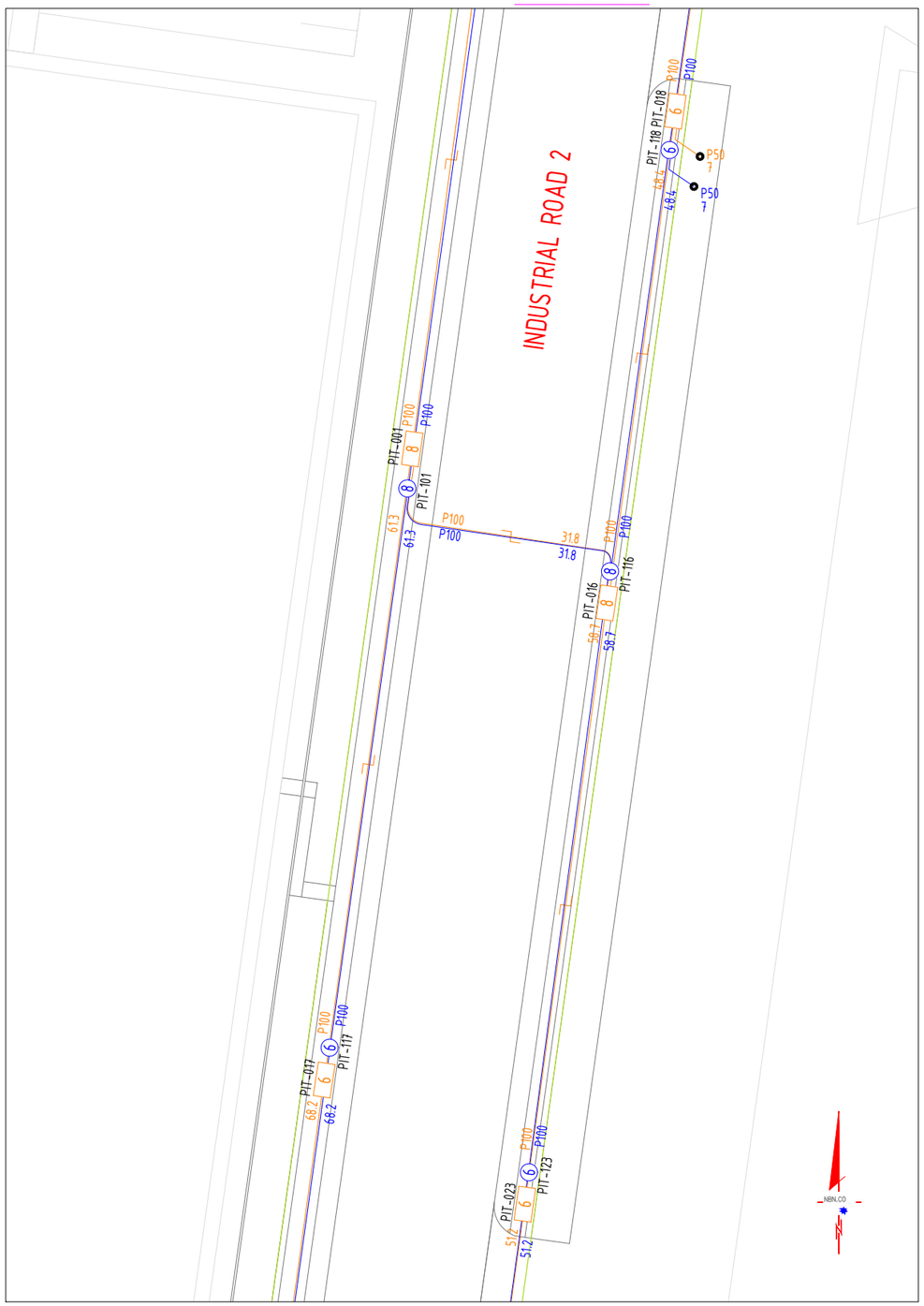
EDGEWATER CONNECTIONS



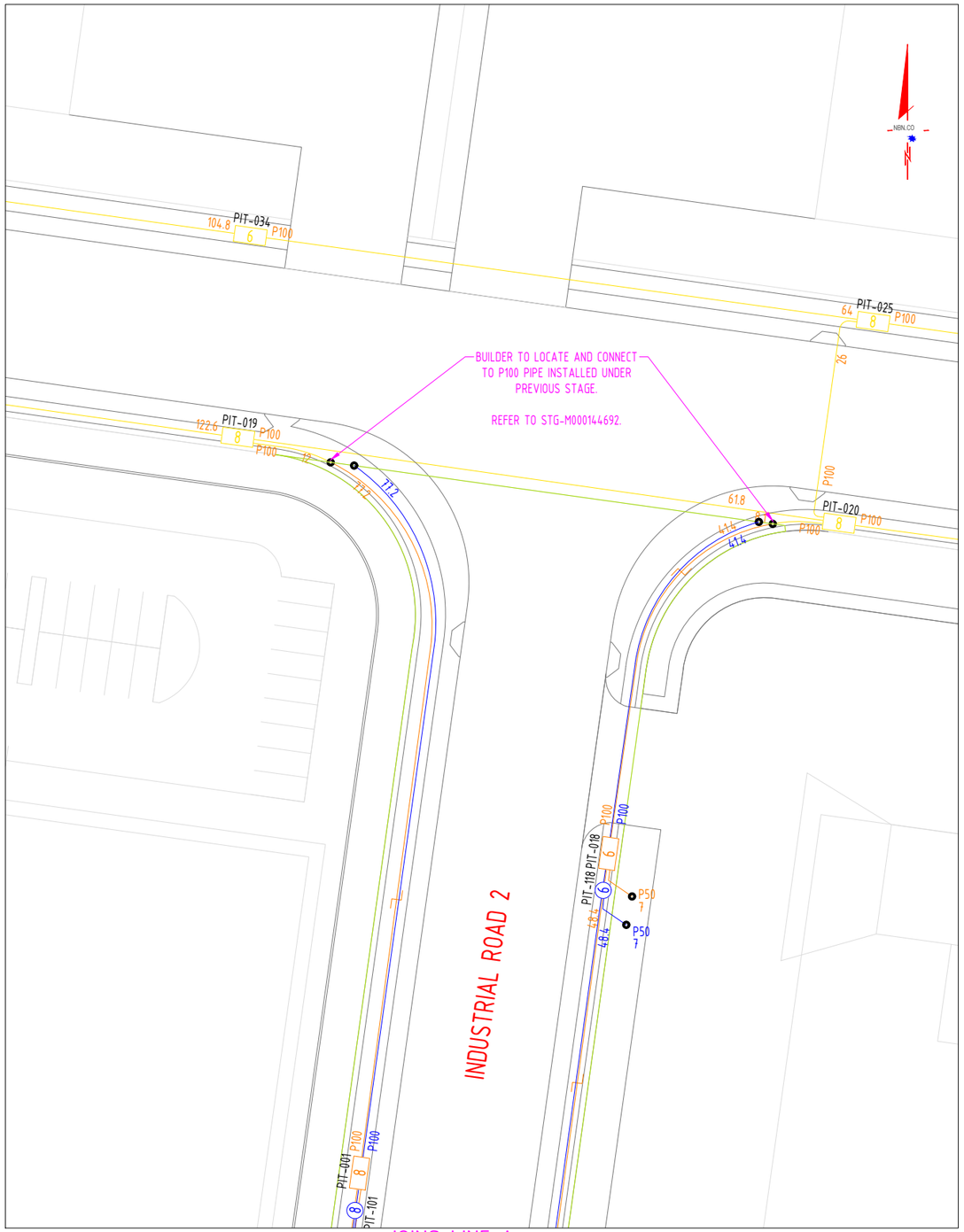
DRAWING TITLE:
NBN AND TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1B
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#:	949119		
STATE:	NSW	REGION:	
FSA:		SAM:	ADA:
PROJECT No:	NBN AND TELSTRA		
CADREF No:	EWC5509		
SCALE	N/A	SHEET No.	3 OF 4
REV.	A		

JOINS LINE A



JOINS SHEET 3



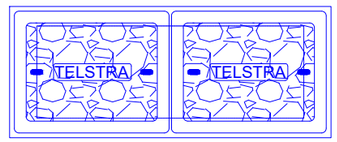
JOINS LINE A

TELSTRA BILL OF MATERIAL

NO OF LOTS: 0

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	29	1583.2
5	0	P50	5	35
6	12	P20	0	0
8	10			
9	0			

TOTAL NUMBER OF PITS: 22
TOTAL NUMBER OF MANHOLES: 0
TOTAL NUMBER OF CONDUITS: 34
TOTAL LENGTH OF CONDUITS: 1618.2



TYPE 6/8 PIT

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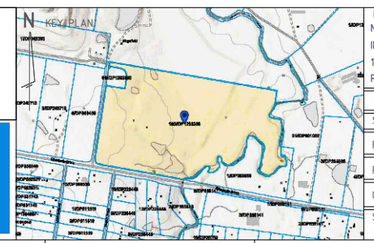
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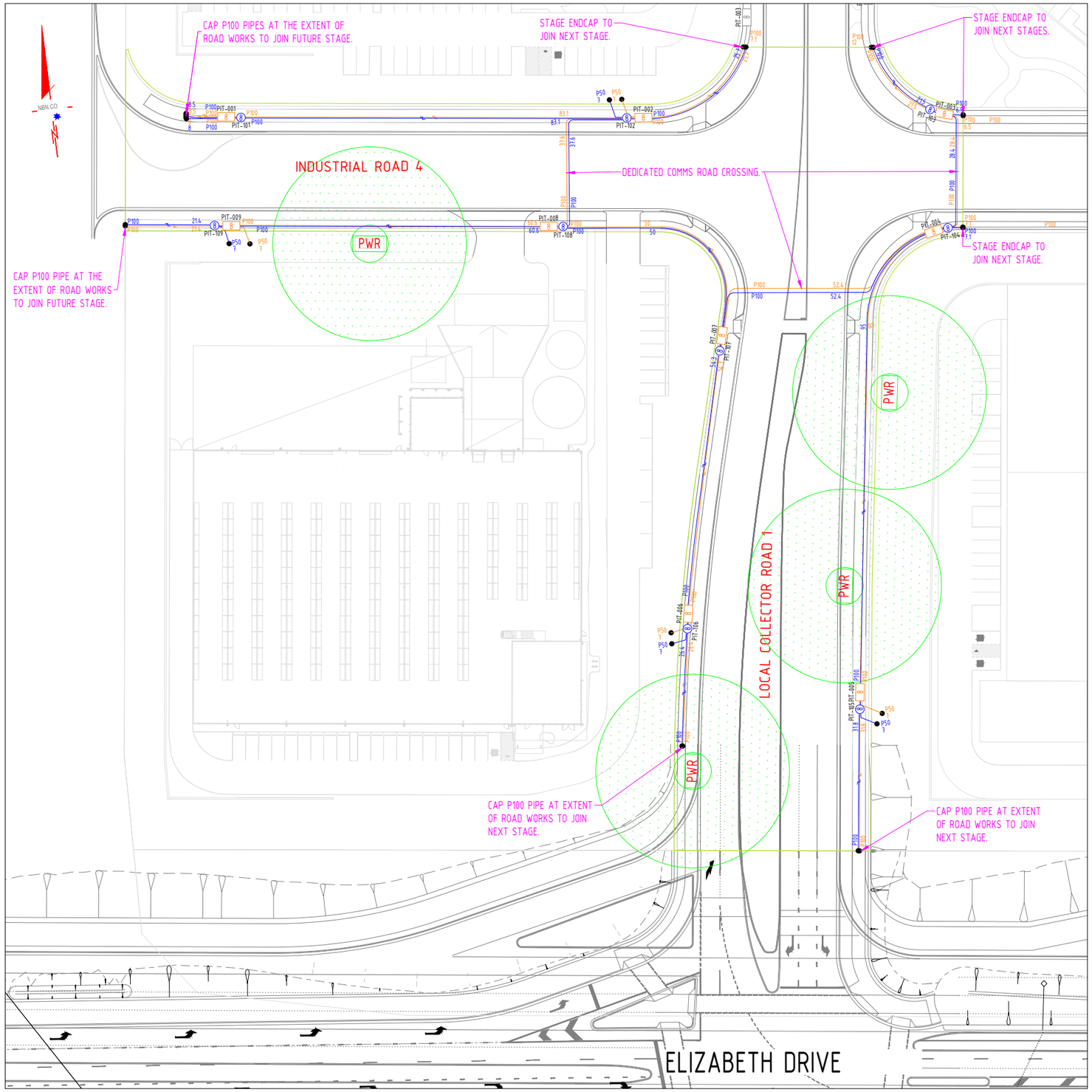
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E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

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DRAWING TITLE:
NBN AND TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE MIRVAC STAGE 1B
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTRUCTURE - LOT 100 IN DP 1283398

ENABLE#:	949119		
STATE:	NSW	REGION:	
FSA:		SAM:	ADA:
PROJECT No:	NBN AND TELSTRA		
CADREF No:	EWC5509		
SCALE	N/A	SHEET No.	4 OF 4
REV.	A		



SITE PLAN

SDU Development Information

Development Name:
ELIZABETH ENTERPRISE PRECINCT ROAD 1 & 4

Developer Company:
EDGEWATER CONNECTIONS

Development Address:
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555

Authorised Rep:
Frank Kranjc
Phone: 0449 591 754
E-Mail: frank@edgewaterconnections.com.au

NBN & TELSTRA
PIT AND PIPE DESIGN

Stage Number:
Road 1 and 4

Design Revision:
A

NOTES:

1. ALL PIT & PIPE INFRASTRUCTURE IS TO BE INSTALLED ACCORDING TO NBN Co's AND TELSTRA STANDARDS.

2. ALL CONSTRUCTION TO BE INSTALLED IN SHARED TRENCH UNLESS OTHERWISE SHOWN.

3. CONDUITS INSTALLED IN SHARED TRENCHES MUST NOT BE VERTICALLY ABOVE OR BELOW OTHER UTILITIES.
MANDATORY SEPARATION IS TO BE MAINTAINED AT ALL TIMES.
MINIMUM SEPARATIONS ARE:
- LV CABLES ~ 100mm
- HV CABLES ~ 300mm
- GAS MAIN (≤⌀75mm) ~ 150mm
- GAS MAIN (≥⌀110mm) ~ 300mm

REFER FIGURE 1 - TYPICAL CROSS SECTION DIAGRAM.

4. NO PITS TO BE INSTALLED WITHIN 15m FROM ANY SUBSTATION.

5. PITS TO BE INSTALLED CLEAR OF PROPOSED DRIVEWAYS.

6. ALL CONDUITS TO BE ROPED.

7. NO PITS TO BE INSTALLED WITHIN 1m FROM ANY STREET LIGHT POLE OR OTHER CARRIER PITS.

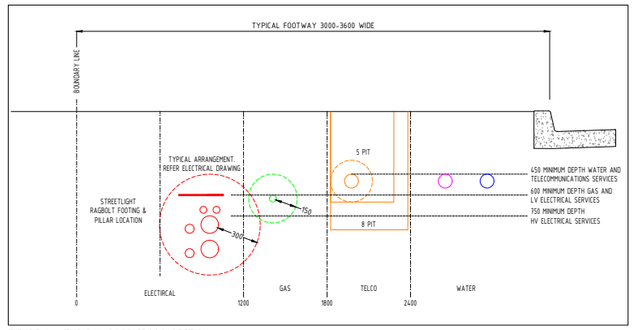
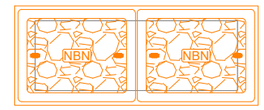
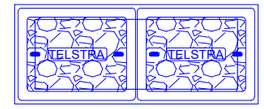


FIGURE 1 - TYPICAL SOCC CROSS SECTION



TYPE 6/8 PIT



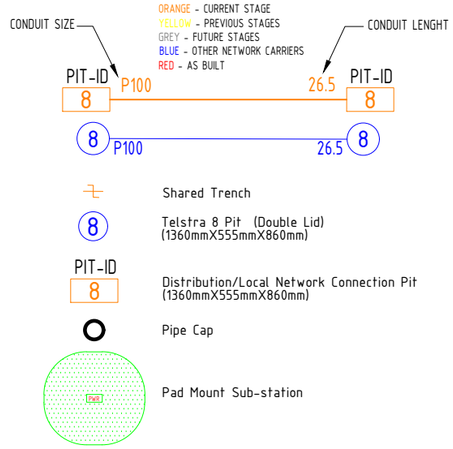
TYPE 6/8 PIT

NBN & TELSTRA BILL OF MATERIALS

NO OF LOTS: 0

PITS		DUCTS		
SIZE	QTY	SIZE	QTY	MTRS
2	0	P100	34	1236.6
5	0	P50	8	56
6	0	P20	0	0
8	18			
9	0			

TOTAL NUMBER OF PITS: 18
TOTAL NUMBER OF MANHOLES: 0
TOTAL NUMBER OF CONDUITS: 42
TOTAL LENGTH OF CONDUITS: 1292.6



DANGER
LASER BEAM
EYE PROTECTION MUST BE WORN

SAFETY FIRST
SAFETY STARTS WITH YOU

STAFF WORKING ON THIS ESTIMATE PLEASE NOTE:
The location of other authorities services which may affect this work have not been obtained by the estimator, Constructor to obtain service information before commencing.

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☐ DD		
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☐ AB		

QUALITY RECORD :

NBN & TELSTRA

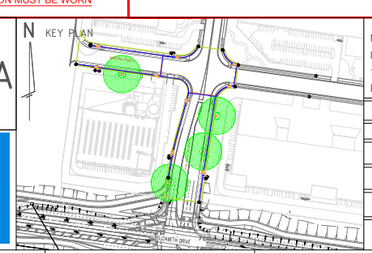
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PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

EDGEWATER CONNECTIONS



DRAWING TITLE:
NBN & TELSTRA - PIT AND PIPE DESIGN
INDUSTRIAL SDU - ELIZABETH ENTERPRISE PRECINCT ROAD 1 & 4
1669-1773 ELIZABETH DRIVE BADGERYS CREEK NSW 2555
ROAD INFRASTUCTURE - LOT 100 IN DP 1283398

ENABLE#: 949119		
STATE: NSW	REGION:	
FSA:	SAM:	ADA:
PROJECT No: NBN AND TELSTRA		
CADREF No: EWC5509		
SCALE: N/A	SHEET No.: 1 OF 1	REV.: A

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

LEGEND

- EXISTING DUCTS
- FUTURE DUCTS
- HV TRENCHING
- EXISTING OVERHEAD CONDUCTOR
- EXISTING TREE
- EXISTING POLE LOCATION
- EXISTING UNDER SLUNG LINK
- EXISTING DROP OF FUSE
- EXISTING AIR BREAK SWITCH CLOSED

DESIGN COMPLIANCE AND INDEMNITY

This design complies with Endeavour Energy's relevant standards as current at this time and as listed on the Endeavour Energy Accredited Service Provider's Internet site. These standards include, but are not limited to:

CP: Connection Policy
EMS: Environmental Management Standard
MCI: Mains Construction Instruction
MDI: Mains Design Instruction
PDI: Protection Design Instruction
SDI: Substation Design Instruction
SAD 0001: Design Drawing Standard
MMI: Mains Maintenance Instruction
SMI: Substation Maintenance Instruction
LDI 0001: Public lighting Electrical Design Element

Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards

EDGEWATER CONNECTIONS indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: STEPHEN ALLAN

Name: STEPHEN ALLAN

Service Provider Number: 2508 Date: 11/02/2025

DUCT DECLARATION

I

OF

CONTACT NUMBER

HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING & ENDEAVOR ENERGY STANDARDS MDI0028 & MCI0006. THE DUCT DEPTHS AND LOCATIONS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING AS PER ENDEAVOR ENERGY STANDARD SAD0004.

THE INSTALLATION OF THE DUCTS WAS:

COMMENCED ON

& COMPLETED ON

SIGNATURE

IDENTIFICATION NUMBER:

DATE:

LAND SURVEYOR REGISTERED UNDER SURVEYING AND SPATIAL INFORMATION ACT 2002

KEY DOCUMENTS TABLE

THE CERTIFICATION OF THIS DRAWING IS SUPPORTED BY THE FOLLOWING DOCUMENTS

DOCUMENT NAME	NOTIFICATION
SUMMARY ENVIRONMENTAL REPORT (SER) - FAT0038 PART OF EMS0001	29/08/2024
DESIGNER'S SAFETY REPORT	30/08/2024
UNDERBORE HDD ALIGNMENT AND LONGSECTION PLAN	13/06/2024

DUCT INSTALLATION ACCEPTANCE BY THE ASP

I have accepted the conduits as marked up on this drawing in compliance to SAD0004 and confirm that:
All the conduits installed by the ASP are:
- in accordance with MDI0028 & MCI0006
- are correct as per the WAE marked up design drawing provided

All conduit groups installed by the developer where accessed by the ASP during construction have been checked by me and I verify that:
- string lines are installed within all the conduits
- continuity of all conduits was confirmed
- all ends of conduits have been sealed as per standards
- exposed ducts at open ends appear to be installed in accordance with MDI0028 & MCI0006

THE INSTALLATION OF DUCT WAS VERIFIED BY ME ON

NAME:

SIGNATURE:

DATE:

ASP COMPANY:

LEVEL 1 ASP COMPANY COMPETENT PERSON

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

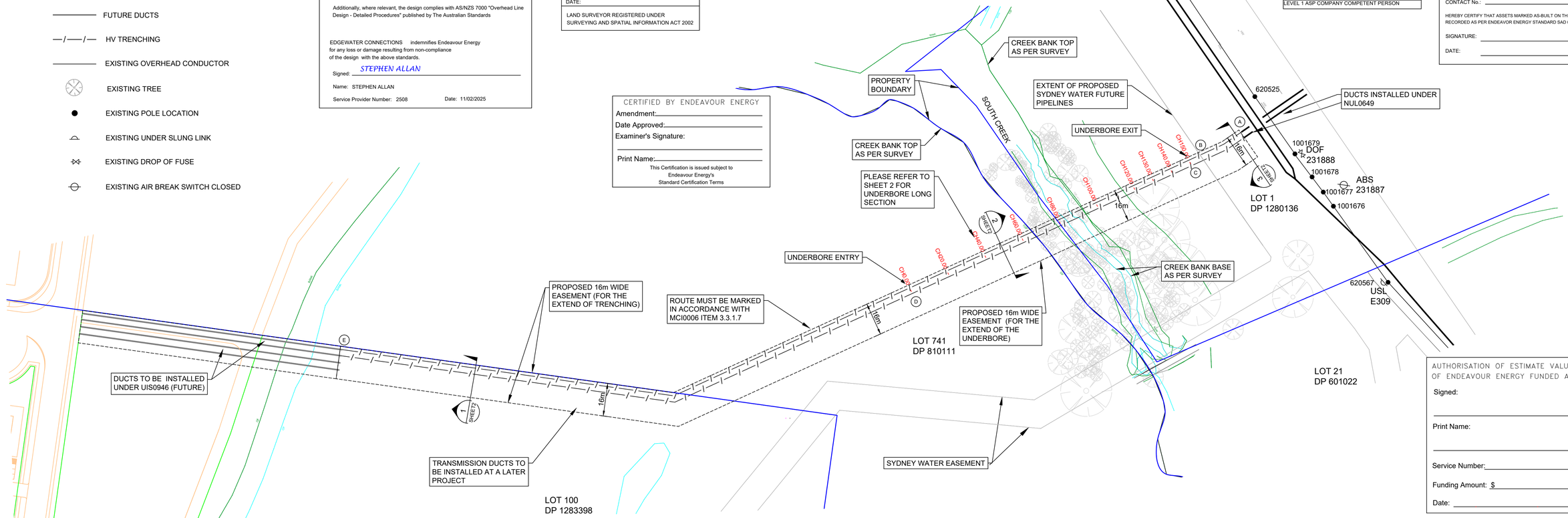
Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms



AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: $ _____

Date: _____

SITE PLAN

0 10 20 30 40 50 METRES

ORIGINAL SCALE - 1:1000

DUCT LEGEND

- ○ SPARE DUCT (50mm)
- ◯ SPARE DUCT (125mm)
- (E) SPARE DUCT (125mm) EE REQUESTED/FUNDED
- (D) SPARE DUCT (125mm) TO BE USED IN FUTURE/ DEVELOPER FUNDED

DUCT BREAKDOWN TABLE

ROUTE	CONFIGURATION		ROUTE LENGTH	EE REIMBURSEMENT CHARGES	EXISTING DUCT USAGE CHARGES
A - B	CONCRETE ENCASED	CONCRETE ENCASED	NEW 4 X 50mm DUCTS 16 X 125mm DUCTS	23m	NEW 23m GREENFIELD 26 DUCTS @ $298/m + 2 x 23m @ $27/m + 5 x 23m @ $27/m = $11,201.00	NIL
B - C			NEW 4 X 50mm DUCTS 16 X 125mm DUCTS	6m	NEW 6m GREENFIELD 26 DUCTS @ $298/m + 2 x 6m @ $27/m + 5 x 6m @ $27/m= $2,922.00	NIL
C - D			NEW UNDERBORE 4 X 63mm DUCTS 16 X 140mm DUCTS	150m	NEW UNDERBORE 150m GREENFIELD 26 DUCTS @ $298/m + 2 x 150m @ $27/m + 5 x 150m @ $27/m = $73,050.00	NIL
D - E			NEW 4 X 50mm DUCTS 16 X 125mm DUCTS	291m	NEW 291m GREENFIELD 26 DUCTS @ $298/m + 2 x 291m @ $27/m + 5 x 291m @ $27/m = $141,717.00	NIL
TOTAL				470m	$228,890.00	NIL

NOTES:
1. THE NEW CONDUITS TO BE INSTALLED IN UNDERBORE ARE 63mm & 140mm PE DUCTS WHICH ARE EQUIVALENT TO THE 50mm & 125mm PVC HD DUCTS
2. ALL NEW 125mm DUCTS MUST BE INSTALLED WITH A MINIMUM COVER OF 750mm AS PER EE STANDARDS
3. A MINIMUM CLEARANCE OF AT LEAST 300mm SHOULD BE KEPT BETWEEN ELECTRICAL DUCTS AND OTHER SERVICES AS PER EE STANDARDS. OTHER AUTORITIES MAY REQUIRE GREATER SEPARATIONS TO THEIR SERVICES

THIS DRAWING SUPPLIES 0 LOTS

C.A.P. No	FILE No	LOT Nos	No.of LOTS	DEVELOPER	DEVELOPERS REP	PHONE No.
ARP5276	-	-	-	MIRVAC	MEIGHAN WOODS	02 90808836

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS

ENDEAVOUR ENERGY SUPPLIED MATERIALS

NIL

ENDEAVOUR ENERGY FUNDED & CONSTRUCTED

WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT	WORKS REQUIRED IN ASSOCIATION OF CUSTOMER CONTESTABLE PROJECT
NIL	NIL

ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSMENT (EXC GST)

ACTIVITY	QUANTITY	REIMBURSEMENT
GREENFIELD 26 DUCTS	470m	$140,060.00
125mm EE DUCT REIMBURSEMENT @ $27/m	3290m	$88,830.00
TOTAL EE REIMBURSEMENT (EXCLUDING PM & DESIGN)	-	228,890.00
TOTAL EE CAPITAL CONTRIBUTION	-	251,093.00

CUSTOMER FUNDED NON-CONTESTABLE WORKS

– MONOPOLY FEES
INSPECTION AND ACCESS AUTHORITY
- SYSTEM SWITCHING
- PROVISION OF ACCESS AUTHORITY (AS PER FEE SENT BY EE'S CWA'S)

CUSTOMER FUNDED CONTESTABLE WORKS

ALL OTHER WORKS AND MATERIALS INCLUDING BUT NOT LIMITED TO:
- TRENCHING
- CREEK UNDERBORE
- DUCT INSTALLATION

CUSTOMER

CUSTOMER FUNDED

INCLUDES BUT IS NOT LIMITED TO:
- PEGGING OF EASEMENTS, PROPERTY BOUNDARIES & INFRASTRUCTURE LOCATIONS
- PROVIDING SITE ACCESS
- OWN SERVICE & SERVICE CONNECTION
- CONFIRM FINISHED GROUND LEVELS
- REGISTERING OF EASEMENTS

EXISTING DUCT USAGE CHARGES (EXC GST)

NIL

CO-ORDINATION SUPPLY REQUIRED DATE

20 FEBRUARY 2025

ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY LV 1 ASP

NIL

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: A ORIGINAL ISSUE DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No. 5.0

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REFERENCE DRAWING'S

WORK ORDERS		CAMS File No	ARP5276
		AM PROJ. No.	
GENERAL		HV SWITCHING	
OVERHEAD		EE DEPOT	HOXTON PARK
UNDERGROUND		EE REGION	CENTRAL
SUBSTATIONS		HV OP DIAG	KEMPS CREEK
		LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN M.T.K

DATE 11/02/2025

CH'D O.B

DO NOT SCALE

DIMENSIONS IN METRES

GDA2020/ MGA56 COORDINATE SYSTEM

DESIGN M.T.K

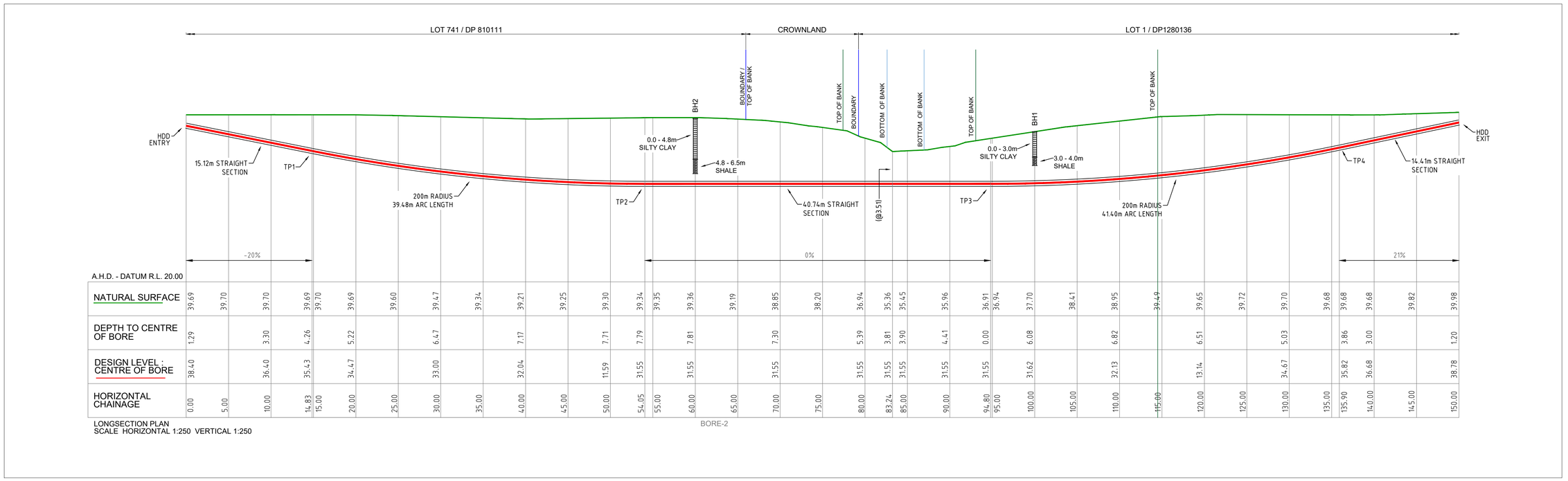
146 B CLIFTON AVENUE
KEMPS CREEK
ENDEAVOUR ENERGY CAP No ARP5276
ASSET RELOCATION

Endeavour Energy

A1 533574 A

SHEET No 1 OF 3 SHEETS

87011



HORIZONTAL CHAINAGE	0.00	5.00	10.00	14.83	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	54.05	55.00	60.00	65.00	70.00	75.00	80.00	83.24	85.00	90.00	94.80	95.00	100.00	105.00	110.00	115.00	120.00	125.00	130.00	135.00	135.90	140.00	145.00	150.00
NATURAL SURFACE	39.69	39.70	39.70	39.69	39.70	39.69	39.60	39.47	39.34	39.21	39.25	39.30	39.34	39.35	39.36	39.19	38.85	38.20	36.94	35.36	35.45	35.96	36.91	36.94	37.70	38.41	38.95	39.49	39.65	39.72	39.70	39.68	39.68	39.68	39.82	39.98
DEPTH TO CENTRE OF BORE	1.29		3.30	4.26		5.22		6.47		7.17		7.71	7.79		7.81		7.30		5.39	3.81	3.90	4.41	0.00		6.08		6.82		6.51		5.03		3.86	3.00		1.20
DESIGN LEVEL : CENTRE OF BORE	38.40		36.40	35.43		34.47		33.00		32.04		11.59	31.55		31.55		31.55		31.55	31.55	31.55	31.55	31.55		31.62		32.13		13.14		34.67		35.82	36.68		38.78

LONGSECTION PLAN
SCALE HORIZONTAL 1:250 VERTICAL 1:250

UNDERBORE LONG SECTION

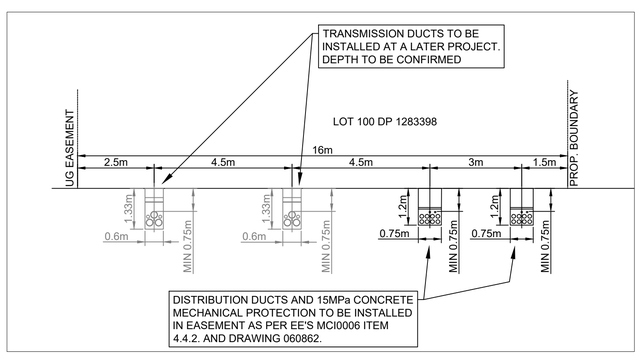
HORIZONTAL SCALE 1:250

VERTICAL SCALE 1:250

CERTIFIED BY ENDEAVOUR ENERGY
Amendment:
Date Approved:
Examiner's Signature:
Print Name:
This Certification is issued subject to Endeavour Energy's Standard Certification Terms

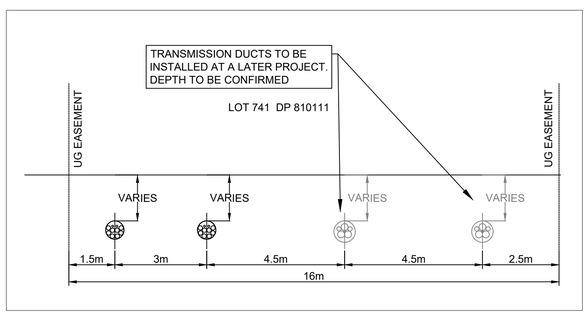
WORKS COMPLETED/FIELD BOOK
CONSTRUCTED BY:
WORKS COMPLETED:
SIGNATURE: DATE:
INSPECTED BY:
SIGNATURE: DATE:

ASSET RECORDING
I:
OF:
CONTACT No.:
HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.
SIGNATURE:
DATE:



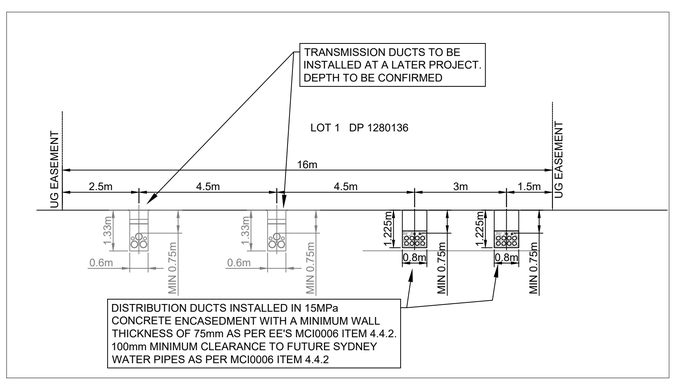
TRENCH SECTION VIEW '1'

SCALE 1:10



UNDERBORE SECTION VIEW '2'

SCALE 1:10



TRENCH SECTION VIEW '3'

SCALE 1:10

PRELIMINARY ONLY
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AMENDMENTS
ORIGINAL ISSUE
A DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
35/5-7 Inglewood Place
Norwest NSW 2153
PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No. 5.0

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REFERENCE DRAWING'S

WORK ORDERS

GENERAL		CAMS File No	ARP5276
OVERHEAD		AM PROJ. No.	
UNDERGROUND		HV SWITCHING	
SUBSTATIONS		EE DEPOT	HOXTON PARK
		EE REGION	CENTRAL
		HV OP DIAG	KEMPS CREEK
		LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED
DRAWN M.T.K
DATE 11/02/2025
CH'D O.B
DESIGN M.T.K

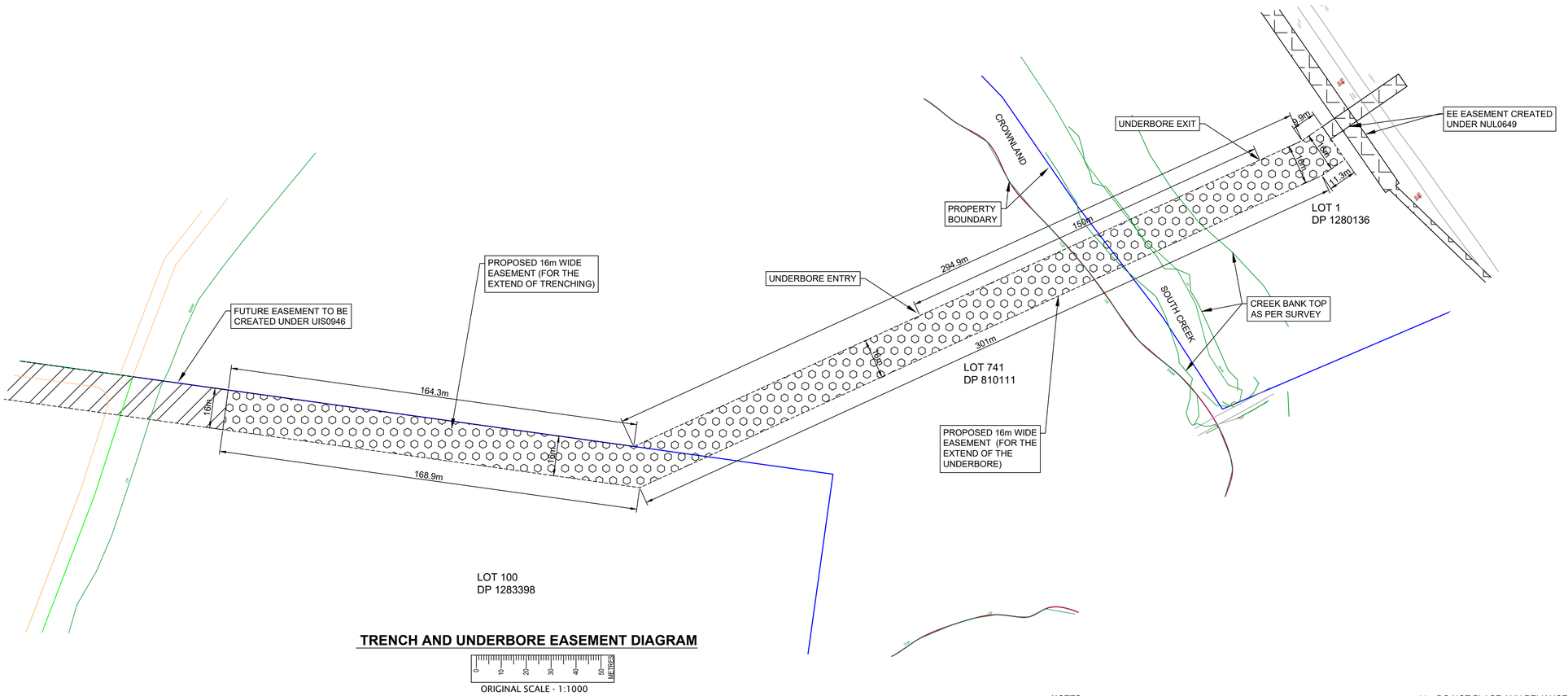
DO NOT SCALE
DIMENSIONS IN METRES
GDA2020/ MGA56 COORDINATE SYSTEM

146 B CLIFTON AVENUE
KEMPS CREEK
ENDEAVOUR ENERGY CAP No ARP5276
ASSET RELOCATION

Endeavour Energy

A1 533574 A
SHEET No 2 OF 3 SHEETS

87011



TRENCH AND UNDERBORE EASEMENT DIAGRAM

ORIGINAL SCALE - 1:1000

PROPOSED EASEMENT FOR UNDERGROUND CABLES (MIN 16m WIDE) IN FAVOUR OF ENDEAVOUR ENERGY TO BE CREATED WITHIN LOTS 100 DP1283398, LOT 741 DP 810111, LOT 1 DP 1280136, & CROWN LAND IN THE CREEK AREA

EXISTING EASEMENT FOR UNDERGROUND CABLES IN FAVOUR OF ENDEAVOUR ENERGY CREATED BY OTHERS UNDER NUL0649

PROPOSED FUTURE EASEMENT FOR UNDERGROUND CABLES (MIN 16m WIDE) IN FAVOUR OF ENDEAVOUR ENERGY TO BE CREATED UNDER UIS0946

CERTIFIED BY ENDEAVOUR ENERGY

Amendment:

Date Approved:

Examiner's Signature:

Print Name:

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY:

WORKS COMPLETED:

SIGNATURE: DATE:

INSPECTED BY:

SIGNATURE: DATE:

ASSET RECORDING

I:

OF:

CONTACT No.:

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOR ENERGY STANDARD SAD 0004.

SIGNATURE:

DATE:

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ENDEAVOUR ENERGY'S NETWORK STANDARDS AND CONNECTION POLICY.
2. ACCREDITED DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
3. ENDEAVOUR ENERGY CONTACT PHONE: 131 081
4. DESIGN CERTIFICATION SHALL LAPSE WHERE:-
   (I) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN (6) SIX MONTHS OF THIS CERTIFICATION.
   (II) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN (6) MONTHS.
   WHERE DESIGN CERTIFICATION HAS LAPSED THE DESIGN MUST BE RESUBMITTED BY THE ACCREDITED SERVICE PROVIDER FOR RE-CERTIFICATION.
5. DEVELOPER SHALL PEG ALL PROPERTY BOUNDARIES INCLUDING ANY EASEMENTS AND ESTABLISH FINAL LEVELS PRIOR TO COMMENCEMENT OF WORKS.
6. ATTENTION
   TELSTRA & OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. TELSTRA & OPTUS UNDERGROUND ASSETS LOCATED IN THE AREA. CONTACTS
   TELSTRA NETWORK INTEGRITY HELP DESK: 1800 653 935
   OPTUS: 8082 0161
   NBN: RELOCATIONWORKS@NBNCO.COM.AU
7. ATTENTION
   SYDNEY WATER TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. CONTACTS
   SYDNEY WATER :(02) 8849 3800
8. ATTENTION
   PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
9. ATTENTION
   SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSETS DATA CUSTOMER DEPT DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131081.
10. WARNING
    LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG, TEL. 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.
11. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND/ OR CONSTRUCTION.
12. THE PREPARATION OF THIS DESIGN HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES. NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
13. OPERATIONAL LIMITS.
    UNLESS APPROVED OTHERWISE, INTERRUPTION TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
    -MOBILE GENERATORS AND SUBSTATIONS
    - LIVE LINE WORK
    - DESIGN ALTERNATIVES, LOW VOLTAGE PARALLELS
    - WORK PRACTICES/STANDARDS
    THE COST IS TO BE FUNDED BY THE CUSTOMER
14. ENVIRONMENT MANAGEMENT PLAN EMP ENDEAVOUR ENERGY COMPANY DOCUMENT EMS0001 IS PART OF THIS DESIGN.
15. HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN? YES
16. EASEMENT FOR UNDERGROUND CABLES A MINIMUM OF 16m WIDE TO BE CREATED IN FAVOUR OF ENDEAVOUR ENERGY WITHIN EXISTING LOT 1/DP1280136, LOT 741/DP810111, LOT 100 /DP1283398, & CROWN LAND IN THE CREEK AREA.
17. LAND INTEREST REQUIRED TO BE REGISTERED A MINIMUM 3 WEEKS PRIOR TO THE PLANNED ENERGISATION OUTAGE DATE AS PER LAND INTEREST GUIDELINES FOR NETWORK CONNECTION WORKS AUGUST 2024 - SECTION 6.3.
18. CROWN LANDS TO PROVIDE CONSENT TO THE PLAN OF THE EASEMENT ON THE ADMINISTRATIVE SHEETS PRIOR TO THE LODGMENT AND REGISTRATION OF THE FINAL PLAN WITH NSW LAND REGISTRY SERVICES (LRS). EASEMENT TO BE CREATED EARLIER TO ALLOW MINIMUM 4 WEEKS FOR CROWN LANDS FOR THEIR EXECUTION

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: A ORIGINAL ISSUE — DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
35/5-7 Inglewood Place
Norwest NSW 2153
PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No. 5.0

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No	ARP5276
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED
DRAWN	M.T.K
DATE	11/02/2025
CH'D	O.B

DO NOT SCALE
DIMENSIONS IN METRES
GDA2020/ MGA56
COORDINATE SYSTEM
DESIGN M.T.K

146 B CLIFTON AVENUE
KEMPS CREEK
ENDEAVOUR ENERGY CAP No ARP5276
ASSET RELOCATION

Endeavour Energy

A1 | 533574 | A

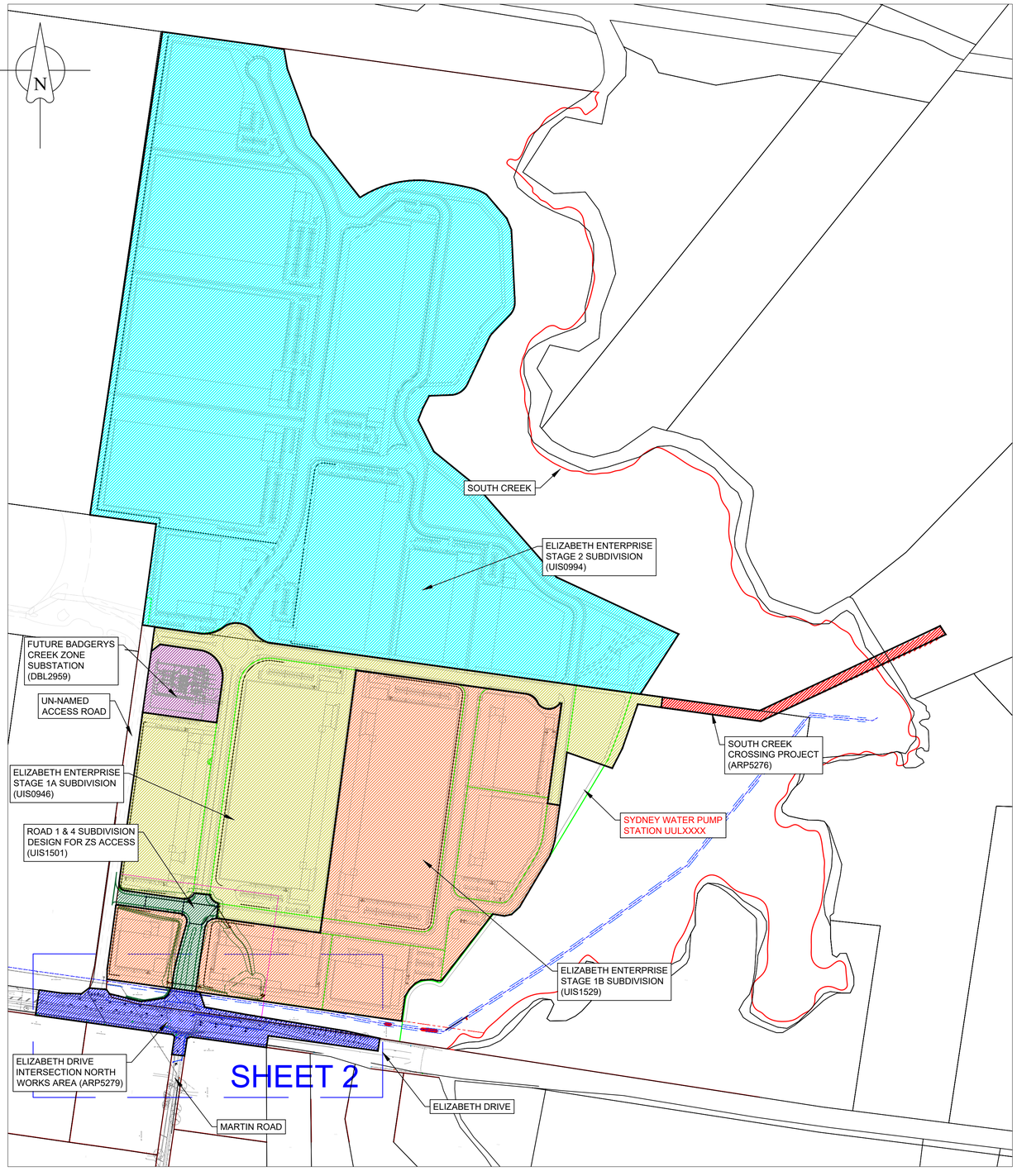
SHEET No 3 OF 3 SHEETS

87011

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: ARP5279 IS ASSOCIATED WITH PROJECTS UIS1501, UIS0946, UIS1529 & UIS0994.



ELIZABETH ENTERPRISE PRECINCT LOCALITY MAP

0 40 80 120 160 200 METRES

ORIGINAL SCALE - 1:4000

Cadastre: © Land and Property Information 2016

THE CERTIFICATION OF THIS DRAWING IS SUPPORTED BY THE FOLLOWING DOCUMENTS

KEY DOCUMENTS TABLE	
DOCUMENT NAME	NOTIFICATION
SUMMARY ENVIRONMENTAL REPORT (SER) - FAT0038 PART OF EMS0003	XX/XX/2025
NOTICE OF ACCEPTANCE OF SITE - SPECIFIC CONDITIONS - FPJ4689	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252 & FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	XX/XX/2025
ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT	XX/XX/2025

DUCT DECLARATION

I _____

OF _____

CONTACT NUMBER _____

HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING & ENDEAVOR ENERGY STANDARDS MDI0028 & MCI0006. THE DUCT DEPTHS AND LOCATIONS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING AS PER ENDEAVOR ENERGY STANDARD SAD0004.

THE INSTALLATION OF THE DUCTS WAS

COMMENCED ON _____

& COMPLETED ON _____

SIGNATURE _____

LAND SURVEYOR REGISTERED UNDER SURVEYING AND SPATIAL INFORMATION ACT 2002

DUCT INSTALLATION ACCEPTANCE BY THE ASP

I have accepted the conduits as marked up on this drawing in compliance to SAD0004 and confirm that:
All the conduits installed by the ASP are:

- in accordance with MDI0028 & MCI0006
- are correct as per the WAE marked up design drawing provided

All conduit groups installed by the developer where accessed by the ASP during construction have been checked by me and I verify that:

- string lines are installed within all the conduits
- continuity of all conduits was confirmed
- all ends of conduits have been sealed as per standards
- exposed ducts at open ends appear to be installed in accordance with MDI0028 & MCI0006

THE INSTALLATION OF DUCT WAS VERIFIED BY ME ON

NAME:

SIGNATURE:

DATE:

ASP COMPANY:

LEVEL 1 ASP COMPANY COMPETENT PERSON

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

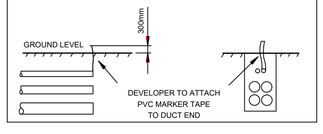
CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

DUCT END LOCATION DETAIL



CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ENDEAVOUR ENERGY'S NETWORK STANDARDS AND CONNECTION POLICY.
2. ACCREDITED DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
3. ENDEAVOUR ENERGY CONTACT PHONE: 131 081
4. DESIGN CERTIFICATION SHALL LAPSE WHERE:-
   (I) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN (6) SIX MONTHS OF THIS CERTIFICATION.
   (II) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN (6) MONTHS.
   WHERE DESIGN CERTIFICATION HAS LAPSED THE DESIGN MUST BE RESUBMITTED BY THE ACCREDITED SERVICE PROVIDER FOR RE-CERTIFICATION.
5. DEVELOPER SHALL PEG ALL PROPERTY BOUNDARIES INCLUDING ANY EASEMENTS AND ESTABLISH FINAL LEVELS PRIOR TO COMMENCEMENT OF WORKS.
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10. WARNING
    LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG, TEL. 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.
11. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND/ OR CONSTRUCTION.
12. THE PREPARATION OF THIS DESIGN HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES. NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
13. OPERATIONAL LIMITS.
    UNLESS APPROVED OTHERWISE, INTERRUPTION TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
    - MOBILE GENERATORS AND SUBSTATIONS
    - LIVE LINE WORK
    - DESIGN ALTERNATIVES, LOW VOLTAGE PARALLELS
    - WORK PRACTICES/STANDARDS
    THE COST IS TO BE FUNDED BY THE CUSTOMER
14. ENVIRONMENT MANAGEMENT PLAN EMP ENDEAVOUR ENERGY COMPANY DOCUMENT EMS0001 IS PART OF THIS DESIGN.
15. HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN? YES
16. CENTRELINE OF ALL SL COLUMNS ARE TO BE INSTALLED AT 350mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
17. CENTRELINE OF ALL LV PILLARS ARE TO BE INSTALLED AT 300mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
18. STREETLIGHT COLUMNS AND LV PILLAR MUST BE INSTALLED AT LEAST 300mm FROM EXISTING AND PROPOSED DRIVEWAYS AS PER EE STANDARDS.
19. A MINIMUM OF 500mm SEPARATION IS REQUIRED BETWEEN STREET LIGHT COLUMNS AND ADJACENT PILLARS.
20. ALL STREET LIGHTING CABLE TO BE INSTALLED IN 50mm DUCTS.
21. ENSURE END OF SERVICE DUCTS ARE NOT PLACED UNDER PROPOSED DRIVEWAYS. REFER DEVELOPER REPRESENTATIVE FOR COORDINATION PURPOSE.
22. ELECTRICAL CONDUCTS AND CABLES MUST BE MECANICALLY PROTECTED AS PER MCI0006 SECTION 4.4.2 WHEN CROSSING WITHIN 300mm TO ANOTHER UTILITIES SERVICE.
23. UNRESTRICTED 24 HOUR / 7 DAY ACCESS MUST BE PROVIDED TO ENDEAVOUR ENERGY STAFF & VEHICLES TO NEW SUBSTATION/ELECTRICAL EQUIPMENT AS PER MCI 0006 ACCESS 7.1.2 REQUIREMENTS.

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: $ _____

Date: _____

THIS DRAWING WILL SUPPLY 0 LOTS

C.A.P. No	FILE No	LOT Nos	No.of LOTS	DEVELOPER	DEVELOPERS REP	PHONE No.
ARP5279		-	0	MIRVAC INDUSTRIAL DEVELOPMENT	MEIGHAN WOODS (MIRVAC)	02 9080 8836

PIONEER COST SHARE REIMBURSEMENT SCHEME - Expiry Date dd/mmm/yyyy Pre-Calculated Reimbursement for Customer Load Over 50kVA

Asset	Asset Cost Estimate ($)	Unit Quantity (km)	Net Asset Capacity (kVA)	Original Customer Utilisation (kVA)	Maximum Reimbursement Amount ($)
HV Mains	N/A	N/A	N/A	N/A	N/A
LV Mains	N/A	N/A	N/A	N/A	N/A
Substation	N/A	N/A	N/A	N/A	N/A

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS

ENDEAVOUR ENERGY SUPPLIED MATERIALS

NIL

ENDEAVOUR ENERGY FUNDED & CONSTRUCTED

WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT	WORKS REQUIRED IN ASSOCIATION OF CUSTOMER CONTESTABLE PROJECT
NIL	NIL

ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSMENT (EXC GST)

ACTIVITY	QUANTITY	REIMBURSEMENT
VALUE OF 22kV 500kVA TRANSFORMER	1	$ 11,154.00
EE REIMBURSEMENT CHARGES FOR HV 125mm DUCTS @ $27/m	1308m	$ 35,316.00
TOTAL EE REIMBURSEMENT (EXCLUDING PM & DESIGN)	-	$ 28,621.00
TOTAL EE CAPITAL CONTRIBUTION	-	$ 31,397.00

CUSTOMER FUNDED NON-CONTESTABLE WORKS

– MONOPOLY FEES
INSPECTION AND ACCESS AUTHORITY
- SYSTEM SWITCHING
- PROVISION OF ACCESS AUTHORITY (AS PER FEE SENT BY EE'S CWA'S)

CUSTOMER FUNDED CONTESTABLE WORKS

ALL OTHER WORKS AND MATERIALS INCLUDING BUT NOT LIMITED TO:
- SUBSTATION INSTALLATION
- EARTHING
- TRENCHING
- DUCT INSTALLATION
- CABLE LAYING AND/OR INSTALLATIONS
- TERMINATIONS
- PILLAR & COLUMN INSTALLATION
- STREET LIGHT INSTALLATION
- TRAFFIC MANAGEMENT
- OUTAGE OF HV

CUSTOMER

CUSTOMER FUNDED

INCLUDES BUT IS NOT LIMITED TO:
- PEGGING OF EASEMENTS, PROPERTY BOUNDARIES & INFRASTRUCTURE LOCATIONS
- PROVIDING SITE ACCESS
- OWN SERVICE & SERVICE CONNECTION
- CONFIRM FINISHED GROUND LEVELS
- REGISTERING OF EASEMENTS

EXISTING DUCT USAGE CHARGES (EXC GST)

287m @ $23/m = $ 6,601.00

CO-ORDINATION SUPPLY REQUIRED DATE

01 MAY 2020

ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY LV 1 ASP

NIL

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: ORIGINAL ISSUE — DRAFT No. 01 — A

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S

WORK ORDERS

CAMS File No.	ARP5279		
AM PROJ. No.			
GENERAL		HV SWITCHING	
OVERHEAD		EE DEPOT	HOXTON PARK
UNDERGROUND		EE REGION	CENTRAL
SUBSTATIONS		HV OP DIAG	KEMPS CREEK
		LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS SHOWN

DRAWN J.R.P.

DATE 09/10/2025

CH'D O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 20 / MGA 56
COORDINATE SYSTEM

DESIGN O.B.

LOT 5, DP 860456, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: ARP5279
ASSET RELOCATION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | 535178 | A

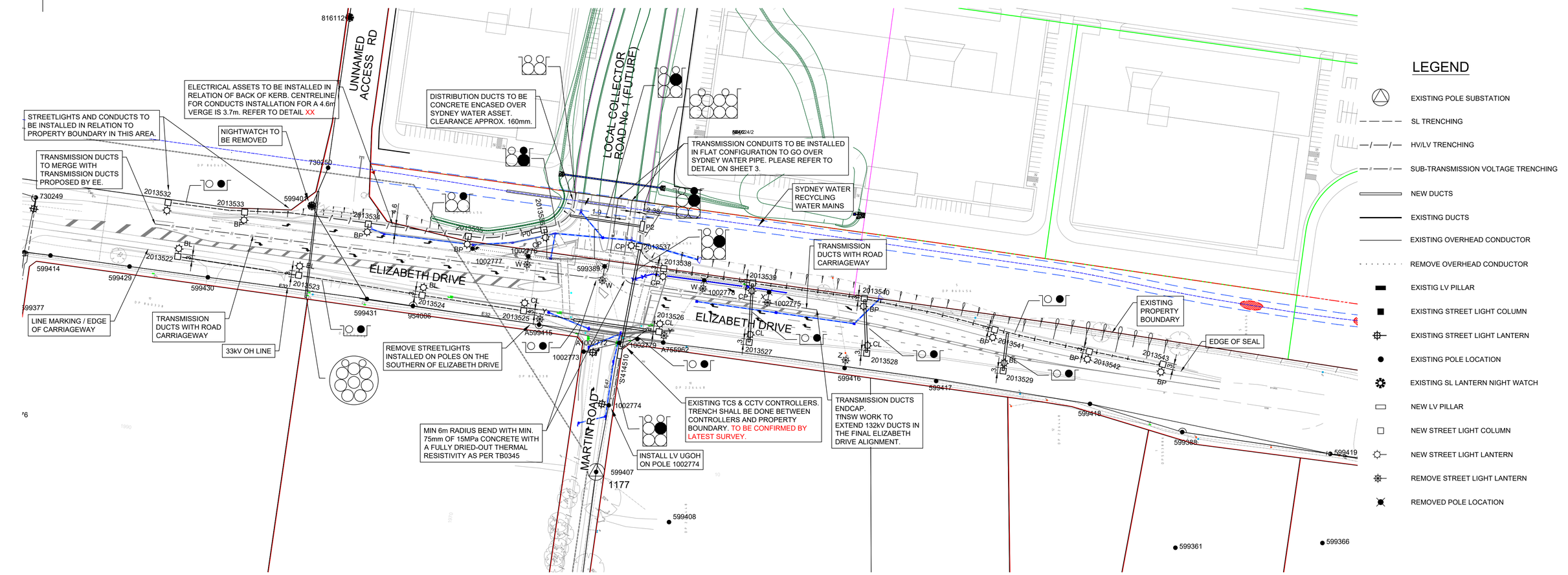
SHEET No 1 OF 4 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: ARP5279 IS ASSOCIATED WITH PROJECTS UIS1501, UIS0946, UIS1529 & UIS0994.



SITE PLAN

0 10 20 30 40 50 METRES

ORIGINAL SCALE - 1:1000

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

PRELIMINARY ONLY
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AMENDMENTS
A ORIGINAL ISSUE
DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
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PO Box 8114
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P: +612 8814 1299
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W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	ARP5279
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS SHOWN

DRAWN J.R.P.

DATE 09/10/2025

CH'D O.B.

DO NOT SCALE

DIMENSIONS IN METRES

GDA 20 / MGA 56 COORDINATE SYSTEM

DESIGN O.B.

LOT 5, DP 860456, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: ARP5279
ASSET RELOCATION
ELECTRICAL RETICULATION

Endeavour Energy

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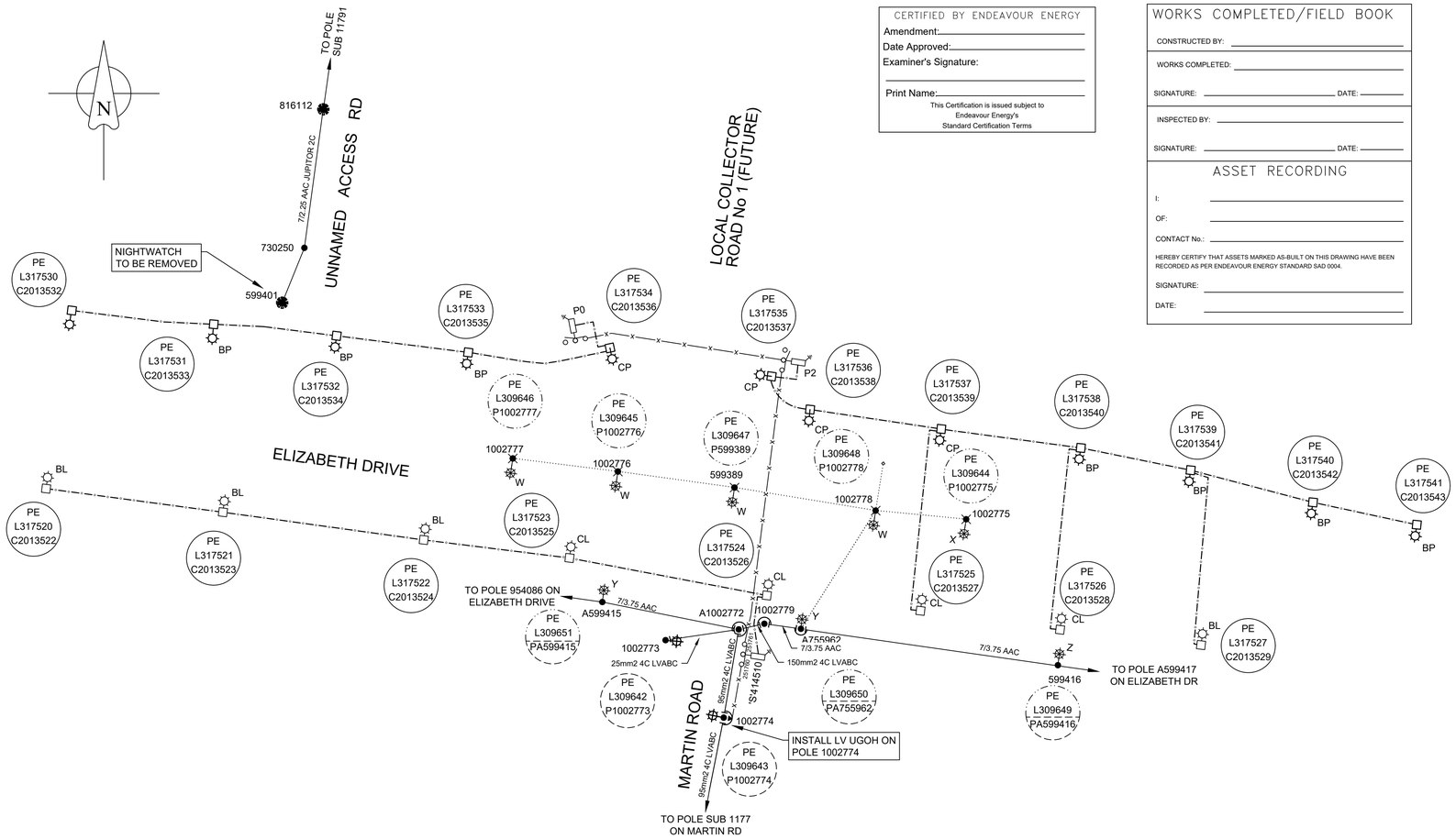
SHEET No 2 OF 4 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: ARP5279 IS ASSOCIATED WITH PROJECTS UIS1501, UIS0946, UIS1529 & UIS0994.



CERTIFIED BY ENDEAVOUR ENERGY
Amendment:
Date Approved:
Examiner's Signature:
Print Name:
This Certification is issued subject to Endeavour Energy's Standard Certification Terms

WORKS COMPLETED/FIELD BOOK
CONSTRUCTED BY:
WORKS COMPLETED:
SIGNATURE: DATE:
INSPECTED BY:
SIGNATURE: DATE:

ASSET RECORDING

I:

OF:

CONTACT No.:

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE:

DATE:

NO CHANGE TO H.V. CIRCUIT

NOT TO SCALE

FINAL L.V. & S.L. CIRCUIT

NOT TO SCALE

- EXISTING OH MAINS
- REMOVE OH MAINS
- INSTALL 240mm² AL 4C XLPE/PVC CABLE — R.L. XXXm C.L. XXXm
- INSTALL 16mm² Cu 4C XLPE/PVC CABLE — R.L. XXXm C.L. XXXm
- NEW LV INDUSTRIAL DOUBLE LINK PILLAR
- PILLAR EARTHING, AS PER EDI100
- EXISTING POLE
- POLE TO BE REMOVED
- LANTERN AND OUTREACH TO BE REMOVED
- NEW COLUMN AND LANTERN
- EXISTING NIGHTWATCH
- PE L315875 C2012244 — EXISTING LANTERN NO. (PE CELL CONTROLLED) EXISTING COLUMN NO. / POLE NO.
- PE L315875 C2012244 — NEW LANTERN NO.(PE CELL CONTROLLED) NEW COLUMN NO.
- PE L316114 C2012444 — REMOVE LANTERN NO.(PE CELL CONTROLLED) REMOVE POLE NO.
- PE L316114 C2012444 — REMOVE LANTERN NO.(PE CELL CONTROLLED) EXISTING COLUMN NO. / POLE NO.

LIGHTING EQUIPMENT AND BILLING SCHEDULE

STATE	SYMBOL	SL NUMBER NEW	SL NUMBER EXISTING	SUPPORT NUMBER NEW	SUPPORT NUMBER EXISTING	LUMINAIRE DESCRIPTION	LUMINAIRE PART NO	LUMINAIRE RATE CODE	LUMINAIRE QTY	LUMINAIRE MOUNTING HEIGHT	COLUMN/POLE DESCRIPTION	COLUMN/POLE PART NO	COLUMN/POLE FOOTING (BOLT/FOUNDATION)	COLUMN/POLE QTY	COLUMN/POLE RATE CODE	COLOUR	BRACKET/OUTREACH DESCRIPTION	BRACKET/OUTREACH PART NO	BRACKET/OUTREACH RATE CODE	UPCAST	CATEGORY	CHARGE TO
NEW	□☼	XXXX		XXXX		120W ROADLED MIDI AEROSCREEN	PM99G11L120	772	1	10.5	8.5m IMPACT ABSORBENT MAST	IE8.5IA	TYPE 2 RAG BOLT / UNIVERSAL FOUNDATION	1	995	GALVANISED	6.0m SINGLE OUTREACH	IE1.5EXT	991	5°	V3	PENRITH CITY COUNCIL (100%)
NEW	□☼BP	XXXX	-	XXXX	-	120W ROADLED MIDI AEROSCREEN	PM99G11L120	772	7	10.5	8.5m IMPACT ABSORBENT MAST	IE8.5IA	TYPE 2 RAG BOLT / UNIVERSAL FOUNDATION	7	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5CPS	991	5°	V3	PENRITH CITY COUNCIL (100%)
NEW	□☼BL	XXXX	-	XXXX	-	120W ROADLED MIDI AEROSCREEN	PM99G11L120	772	4	10.5	8.5m IMPACT ABSORBENT MAST	IE8.5IA	TYPE 2 RAG BOLT / UNIVERSAL FOUNDATION	4	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5CPS	991	5°	V3	LIVERPOOL COUNCIL (100%)
NEW	□☼CP	XXXX	-	XXXX	-	275W ROADLED MIDI AEROSCREEN	PM99G11L275	774	4	12	10m IMPACT ABSORBENT MAST	IE10.0IA	TYPE 3 RAG BOLT / TYPE 3 FOUNDATION	4	996	GALVANISED	4.5m SINGLE OUTREACH	IE4.5CPS	991	5°	V3	PENRITH CITY COUNCIL (100%)
NEW	□☼CL	XXXX	-	XXXX	-	275W ROADLED MIDI AEROSCREEN	PM99G11L275	774	4	12	10m IMPACT ABSORBENT MAST	IE10.0IA	TYPE 3 RAG BOLT / TYPE 3 FOUNDATION	4	996	GALVANISED	4.5m SINGLE OUTREACH	IE4.5CPS	991	5°	V3	LIVERPOOL COUNCIL (100%)
REMOVE	✱❄W	-	309646 309645 309647 309648	-	1002777 1002776 599389 1002778	165W LED STREETLED	EXISTING	964	4	-	WOOD POLE	EXISTING	EXISTING	4	897	-	6.0m BRACKET	EXISTING	891	-	-	PENRITH CITY COUNCIL (100%)
REMOVE	✱❄X	-	309644	-	1002775	275W LED ROADLED	EXISTING	774	1	-	WOOD POLE	EXISTING	EXISTING	1	897	-	6.0m BRACKET	EXISTING	891	-	-	PENRITH CITY COUNCIL (100%)
REMOVE	●❄Y	-	309651 309650	-	A599415 A755962	165W LED STREETLED	EXISTING	964	2	-	WOOD POLE	EXISTING	EXISTING	2	898	-	4.5m BRACKET	EXISTING	891	-	-	LIVERPOOL COUNCIL (100%)
REMOVE	●❄Z	-	309649	-	A599416	275W LED ROADLED	EXISTING	774	1	-	WOOD POLE	EXISTING	EXISTING	1	898	-	4.5m BRACKET	EXISTING	891	-	-	LIVERPOOL COUNCIL (100%)

AMENDMENTS
ORIGINAL ISSUE
A DRAFT No. 01

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Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
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E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509
EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20
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REFERENCE DRAWING'S

WORK ORDERS		CAMS File No.	ARP5279
		AM PROJ. No.	
GENERAL		HV SWITCHING	
OVERHEAD		EE DEPOT	HOXTON PARK
UNDERGROUND		EE REGION	CENTRAL
SUBSTATIONS		HV OP DIAG	KEMPS CREEK
		LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS SHOWN

DRAWN	J.R.P.
DATE	09/10/2025
CH'D	O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 20 / MGA 56
COORDINATE SYSTEM

DESIGN	O.B.

LOT 5, DP 860456, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: ARP5279
ASSET RELOCATION
ELECTRICAL RETICULATION

Endeavour Energy

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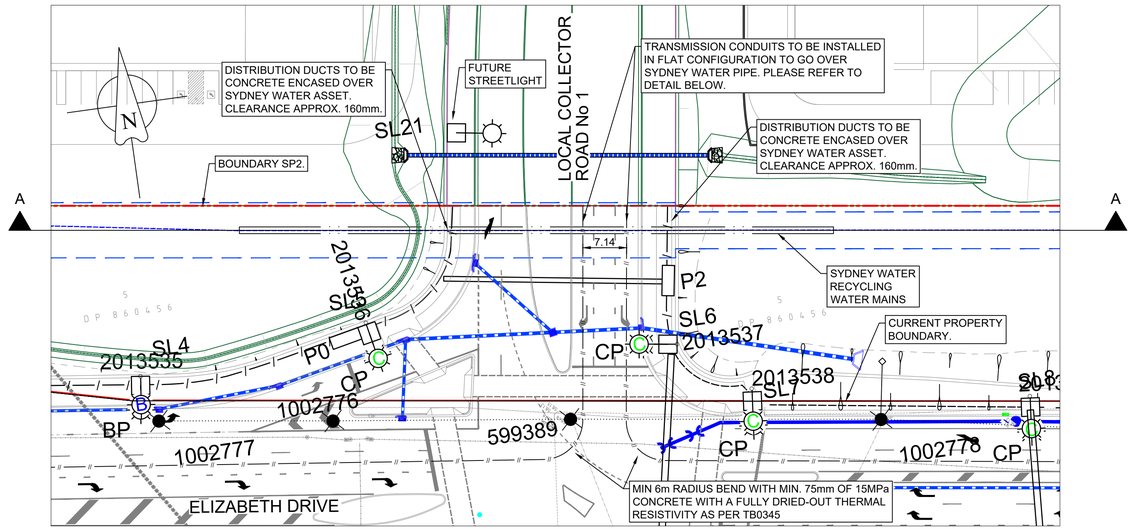
SHEET No 3 OF 4 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

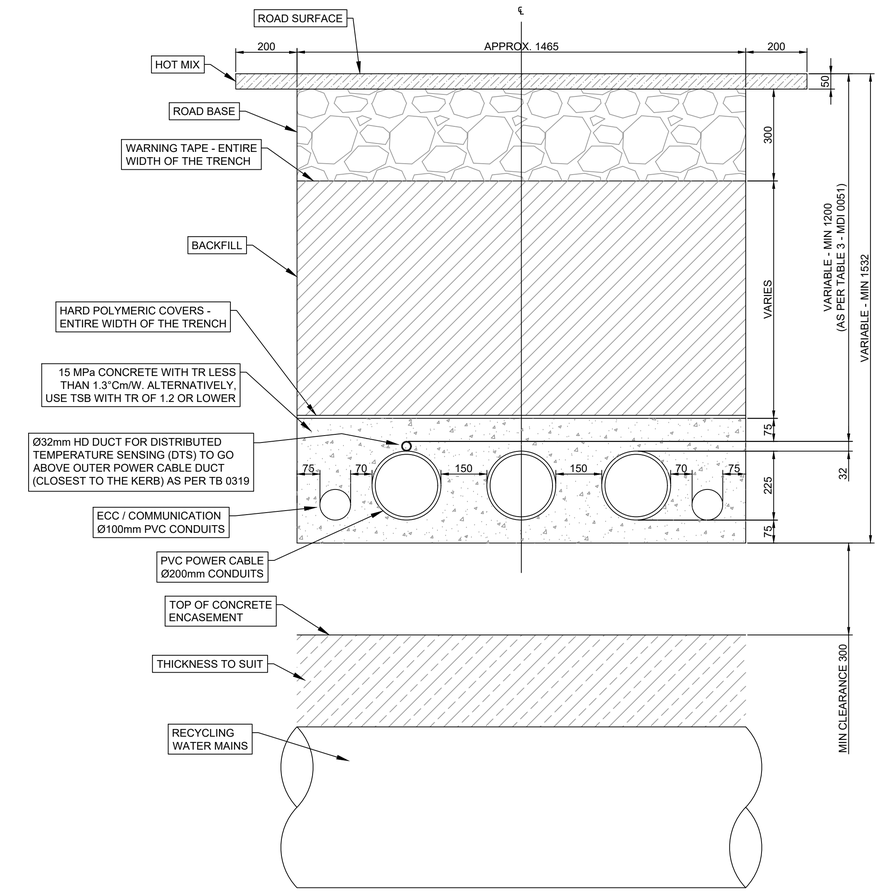
NOTE:

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EEP INTERTERSECTION (NORTH)

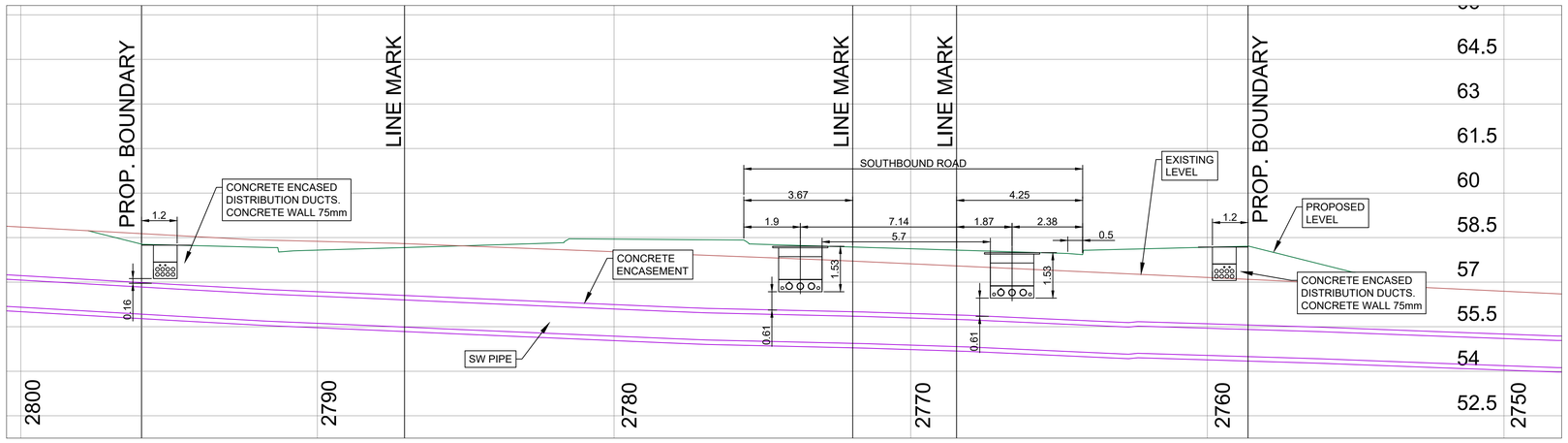
SCALE 1:500



NOTE: SOME SERVICES SUCH AS HP GAS MAINS MAY REQUIRE GREATER VERTICAL SEPARATIONS.

FLAT INSTALLATION OF TRANSMISSION CONDUITS AT INTERSECTION WITH ELIZABETH DRIVE

NOT TO SCALE



CROSS-SECTION A-A OVER SW PIPE

SCALE 1:100

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

AMENDMENTS

	ORIGINAL ISSUE	DRAFT No. 01
A		

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EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	ARP5279
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS SHOWN	DO NOT SCALE	
DRAWN	J.R.P.	DIMENSIONS IN METRES	
DATE	09/10/2025	GDA 20 / MGA 56 COORDINATE SYSTEM	
CH'D	O.B.	DESIGN	O.B.

LOT 5, DP 860456, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: ARP5279
ASSET RELOCATION
ELECTRICAL RETICULATION

Endeavour Energy

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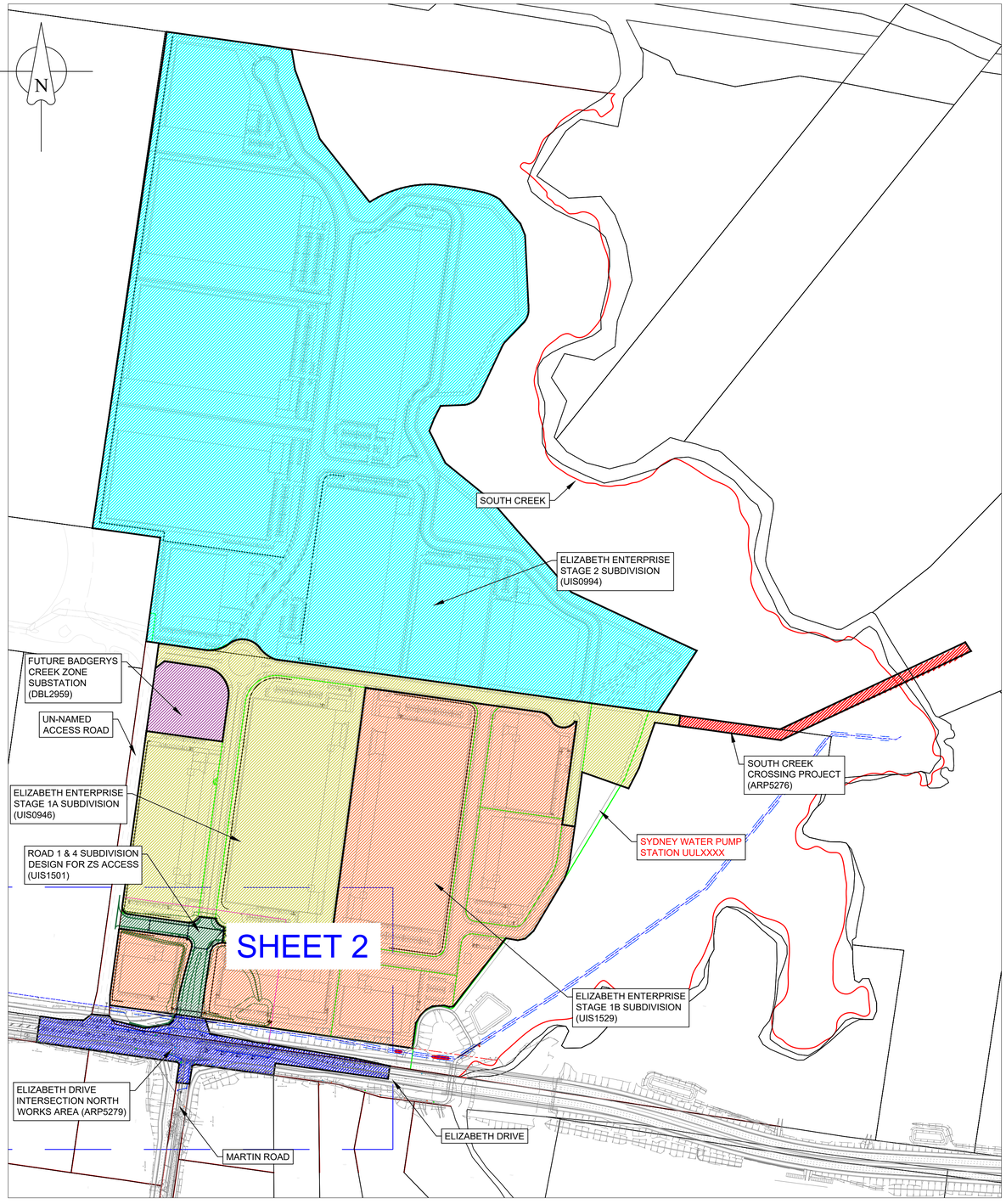
SHEET No 4 OF 4 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1501 IS ASSOCIATED WITH PROJECTS ARP5279, UIS0946, UIS1529 & UIS0994.



ELIZABETH ENTERPRISE PRECINCT LOCALITY MAP

0 40 80 120 160 200 METRES

ORIGINAL SCALE - 1:4000

Cadastre: © Land and Property Information 2016

THE CERTIFICATION OF THIS DRAWING IS SUPPORTED BY THE FOLLOWING DOCUMENTS

KEY DOCUMENTS TABLE	
DOCUMENT NAME	NOTIFICATION
SUMMARY ENVIRONMENTAL REPORT (SER) - FAT0038 PART OF EMS0003	XX/XX/2023
NOTICE OF ACCEPTANCE OF SITE - SPECIFIC CONDITIONS - FPJ4689	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252 & FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	XX/XX/2023
ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT	XX/XX/2023

DUCT DECLARATION

I _____

OF _____

CONTACT NUMBER _____

HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING & ENDEAVOR ENERGY STANDARDS MDI0028 & MCI0006. THE DUCT DEPTHS AND LOCATIONS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING AS PER ENDEAVOR ENERGY STANDARD SAD0004.

THE INSTALLATION OF THE DUCTS WAS

COMMENCED ON _____

& COMPLETED ON _____

SIGNATURE _____

LAND SURVEYOR REGISTERED UNDER SURVEYING AND SPATIAL INFORMATION ACT 2002

DUCT INSTALLATION ACCEPTANCE BY THE ASP

I have accepted the conduits as marked up on this drawing in compliance to SAD0004 and confirm that:
All the conduits installed by the ASP are:

- in accordance with MDI0028 & MCI0006
- are correct as per the WAE marked up design drawing provided

All conduit groups installed by the developer where accessed by the ASP during construction have been checked by me and I verify that:

- string lines are installed within all the conduits
- continuity of all conduits was confirmed
- all ends of conduits have been sealed as per standards
- exposed ducts at open ends appear to be installed in accordance with MDI0028 & MCI0006

THE INSTALLATION OF DUCT WAS VERIFIED BY ME ON

NAME:

SIGNATURE:

DATE:

ASP COMPANY:

LEVEL 1 ASP COMPANY COMPETENT PERSON

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

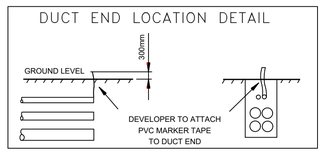
Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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DUCT END LOCATION DETAIL



NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ENDEAVOUR ENERGY'S NETWORK STANDARDS AND CONNECTION POLICY.
2. ACCREDITED DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
3. ENDEAVOUR ENERGY CONTACT PHONE: 131 081
4. DESIGN CERTIFICATION SHALL LAPSE WHERE:-
   (I) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN (6) SIX MONTHS OF THIS CERTIFICATION.
   (II) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN (6) MONTHS.
   WHERE DESIGN CERTIFICATION HAS LAPSED THE DESIGN MUST BE RESUBMITTED BY THE ACCREDITED SERVICE PROVIDER FOR RE-CERTIFICATION.
5. DEVELOPER SHALL PEG ALL PROPERTY BOUNDARIES INCLUDING ANY EASEMENTS AND ESTABLISH FINAL LEVELS PRIOR TO COMMENCEMENT OF WORKS.
6. ATTENTION
   TELSTRA & OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. TELSTRA & OPTUS UNDERGROUND ASSETS LOCATED IN THE AREA. CONTACTS
   TELSTRA NETWORK INTEGRITY HELP DESK: 1800 653 935
   OPTUS: 8082 0161
   NBN: RELOCATIONWORKS@NBNCO.COM.AU
7. ATTENTION
   SYDNEY WATER TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. CONTACTS
   SYDNEY WATER :(02) 8849 3800
8. ATTENTION
   PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
9. ATTENTION
   SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSETS DATA CUSTOMER DEPT DAILY WHEN CABLE WORKS IS IN PROGRESS.
   TELEPHONE 131081.
10. WARNING
    LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG, TEL. 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.
11. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND/ OR CONSTRUCTION.
12. THE PREPARATION OF THIS DESIGN HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES. NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
13. OPERATIONAL LIMITS.
    UNLESS APPROVED OTHERWISE, INTERRUPTION TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
    -MOBILE GENERATORS AND SUBSTATIONS
    - LIVE LINE WORK
    - DESIGN ALTERNATIVES, LOW VOLTAGE PARALLELS
    - WORK PRACTICES/STANDARDS
    THE COST IS TO BE FUNDED BY THE CUSTOMER
14. ENVIRONMENT MANAGEMENT PLAN EMP ENDEAVOUR ENERGY COMPANY DOCUMENT EMS0001 IS PART OF THIS DESIGN.
15. HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN? YES
16. THE EASEMENT FOR THE AUTOMATED SWITCHING STATION SITES (3.25m x 2.75m) IS TO BE CREATED IN FAVOUR OF ENDEAVOUR ENERGY WITHIN PROPOSED LOT PT1. THIS EASEMENT IS A MINIMUM SIZE ONLY, MUST BE LEVEL, AND MUST BE FREE OF ALL OTHER SERVICES.
17. FIRE HYDRANTS AND BOOSTER VALVES ARE NOT TO BE LOCATED WITHIN 10m MEASURED FROM THE SUBSTATION/SWITCHING STATION PLINTH.
18. FINAL LOCATION OF EASEMENT FOR SWITCHING STATION SITE TO BE SURVEYED, AND PEGGED BY PROPONENT (OR THEIR REPRESENTATIVE) PRIOR TO CONSTRUCTION.
19. CENTRELINE OF ALL SL COLUMNS ARE TO BE INSTALLED AT 350mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
20. CENTRELINE OF ALL LV PILLARS ARE TO BE INSTALLED AT 300mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
21. STREETLIGHT COLUMNS AND LV PILLAR MUST BE INSTALLED AT LEAST 300mm FROM EXISTING AND PROPOSED DRIVEWAYS AS PER EE STANDARDS.
22. A MINIMUM OF 500mm SEPARATION IS REQUIRED BETWEEN STREET LIGHT COLUMNS AND ADJACENT PILLARS.
23. ALL STREET LIGHTING CABLE TO BE INSTALLED IN 50mm DUCTS.
24. ENSURE END OF SERVICE DUCTS ARE NOT PLACED UNDER PROPOSED DRIVEWAYS. REFER DEVELOPER REPRESENTATIVE FOR COORDINATION PURPOSE.
25. ELECTRICAL CONDUCTS AND CABLES MUST BE MECANICALLY PROTECTED AS PER MCI0006 SECTION 4.4.2 WHEN CROSSING WITHIN 300mm TO ANOTHER UTILITIES SERVICE.
26. UNRESTRICTED 24 HOUR / 7 DAY ACCESS MUST BE PROVIDED TO ENDEAVOUR ENERGY STAFF & VEHICLES TO NEW SUBSTATION/ELECTRICAL EQUIPMENT AS PER MCI 0006 ACCESS 7.1.2 REQUIREMENTS.

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: $ _____

Date: _____

PIONEER COST SHARE REIMBURSEMENT SCHEME - Expiry Date dd/mmm/yyyy Pre-Calculated Reimbursement for Customer Load Over 50kVA

Asset	Asset Cost Estimate ($)	Unit Quantity (km)	Net Asset Capacity (kVA)	Original Customer Utilisation (kVA)	Maximum Reimbursement Amount ($)
HV Mains	N/A	N/A	N/A	N/A	N/A
LV Mains	N/A	N/A	N/A	N/A	N/A
Substation	N/A	N/A	N/A	N/A	N/A

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS

ENDEAVOUR ENERGY SUPPLIED MATERIALS

NIL

ENDEAVOUR ENERGY FUNDED & CONSTRUCTED

WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT	WORKS REQUIRED IN ASSOCIATION OF CUSTOMER CONTESTABLE PROJECT
NIL	NIL

ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSMENT (EXC GST)

ACTIVITY	QUANTITY	REIMBURSEMENT
VALUE OF 22kV 500kVA TRANSFORMER	1	$ 11,154.00
EE REIMBURSEMENT CHARGES FOR HV 125mm DUCTS @ $27/m	1308m	$ 35,316.00
TOTAL EE REIMBURSEMENT (EXCLUDING PM & DESIGN)	-	$ 28,621.00
TOTAL EE CAPITAL CONTRIBUTION	-	$ 31,397.00

CUSTOMER FUNDED NON-CONTESTABLE WORKS

– MONOPOLY FEES
INSPECTION AND ACCESS AUTHORITY
- SYSTEM SWITCHING
- PROVISION OF ACCESS AUTHORITY (AS PER FEE SENT BY EE'S CWA'S)

CUSTOMER FUNDED CONTESTABLE WORKS

ALL OTHER WORKS AND MATERIALS INCLUDING BUT NOT LIMITED TO:
- SUBSTATION INSTALLATION
- EARTHING
- TRENCHING
- DUCT INSTALLATION
- CABLE LAYING AND/OR INSTALLATIONS
- TERMINATIONS
- PILLAR & COLUMN INSTALLATION
- STREET LIGHT INSTALLATION
- TRAFFIC MANAGEMENT
- OUTAGE OF HV

CUSTOMER

CUSTOMER FUNDED

INCLUDES BUT IS NOT LIMITED TO:
- PEGGING OF EASEMENTS, PROPERTY BOUNDARIES & INFRASTRUCTURE LOCATIONS
- PROVIDING SITE ACCESS
- OWN SERVICE & SERVICE CONNECTION
- CONFIRM FINISHED GROUND LEVELS
- REGISTERING OF EASEMENTS

EXISTING DUCT USAGE CHARGES (EXC GST)

287m @ $23/m = $ 6,601.00

CO-ORDINATION SUPPLY REQUIRED DATE

01 MAY 2020

ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY LV 1 ASP

NIL

THIS DRAWING WILL SUPPLY 0 LOTS

C.A.P. No	FILE No	LOT Nos	No.of LOTS	DEVELOPER	DEVELOPERS REP	PHONE No.
UIS1501		-	0	MIRVAC INDUSTRIAL DEVELOPMENT	MEIGHAN WOODS (MIRVAC)	02 9080 8836

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NOT FOR CONSTRUCTION

AMENDMENTS
ORIGINAL ISSUE — DRAFT No. 01 — A

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

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TEMPLATE VERSION No 5.20

REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1501
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS SHOWN	DO NOT SCALE	
DRAWN	J.R.P.	DIMENSIONS IN METRES	
DATE	09/10/2025	GDA 20 / MGA 56 COORDINATE SYSTEM	
CH'D	O.B.	DESIGN	O.B.

LOT 100, DP 1283398, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: UIS1501
INDUSTRIAL SUBDIVISION (ROADS 1 & 4)
ELECTRICAL RETICULATION

Endeavour Energy

A1 | 535180 | A

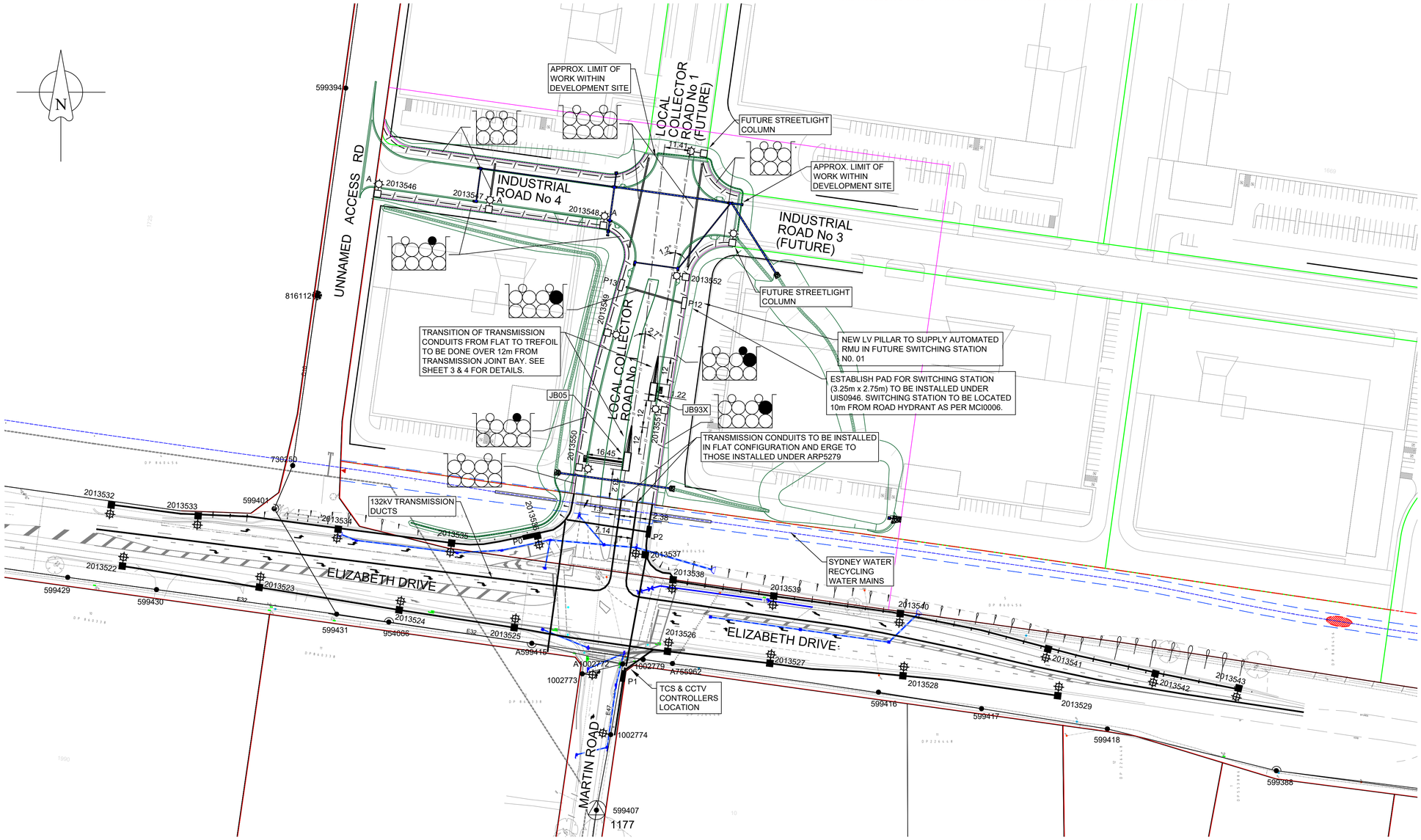
SHEET No 1 OF 5 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1501 IS ASSOCIATED WITH PROJECTS ARP5279, UIS0946, UIS1529 & UIS0994.



SITE PLAN

ORIGINAL SCALE - 1:1000

LEGEND

- EXISTING POLE SUBSTATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- EXISTING SL LANTERN NIGHT WATCH
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- NEW TRANSMISSION JOINT BAY

LIGHTING EQUIPMENT AND BILLING SCHEDULE

STATE	SYMBOL	SL NUMBER		SUPPORT NUMBER		LUMINAIRE					COLUMN/POLE					COLOUR	BRACKET/OUTREACH			UPCAST	CATEGORY	CHARGE TO
		NEW	EXISTING	NEW	EXISTING	DESCRIPTION	PART NO	RATE CODE	QTY	MOUNTING HEIGHT	DESCRIPTION	PART NO	FOOTING (BOLT/FOUNDATION)	QTY	RATE CODE	DESCRIPTION	DESCRIPTION	PART NO	RATE CODE			
NEW		317547 317548 317549 317550	-	2013549 2013550 2013551 2013552	-	120W ROADLED MIDI AEROSCREEN	PM99G11L120	772	4	10.5	8.5m IMPACT ABSORBENT MAST	IE8.5IA	TYPE 2 RAG BOLT / UNIVERSAL FOUNDATION	4	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5PCS/25	991	5°	V3	PENRITH CITY COUNCIL (100%)
NEW	A	317544 317545 317546	-	2013546 2013547 2013548	-	24W STREETLED	JLC99G11L24	755	3	7.5	5.5m ENLARGED BASE COLUMN	IE/EB5.5	TYPE 2 RAG BOLT / TYPE 2 FOUNDATION	3	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5PCS/25	991	5°	PR5	PENRITH CITY COUNCIL (100%)

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: ORIGINAL ISSUE — A — DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS SHOWN

DRAWN J.R.P.

DATE 09/10/2025

CH'D O.B.

DESIGN O.B.

DO NOT SCALE

DIMENSIONS IN METRES

GDA 20 / MGA 56 COORDINATE SYSTEM

LOT 100, DP 1283398, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: UIS1501
INDUSTRIAL SUBDIVISION (ROADS 1 & 4)
ELECTRICAL RETICULATION

Endeavour Energy

A1 | 535180 | A

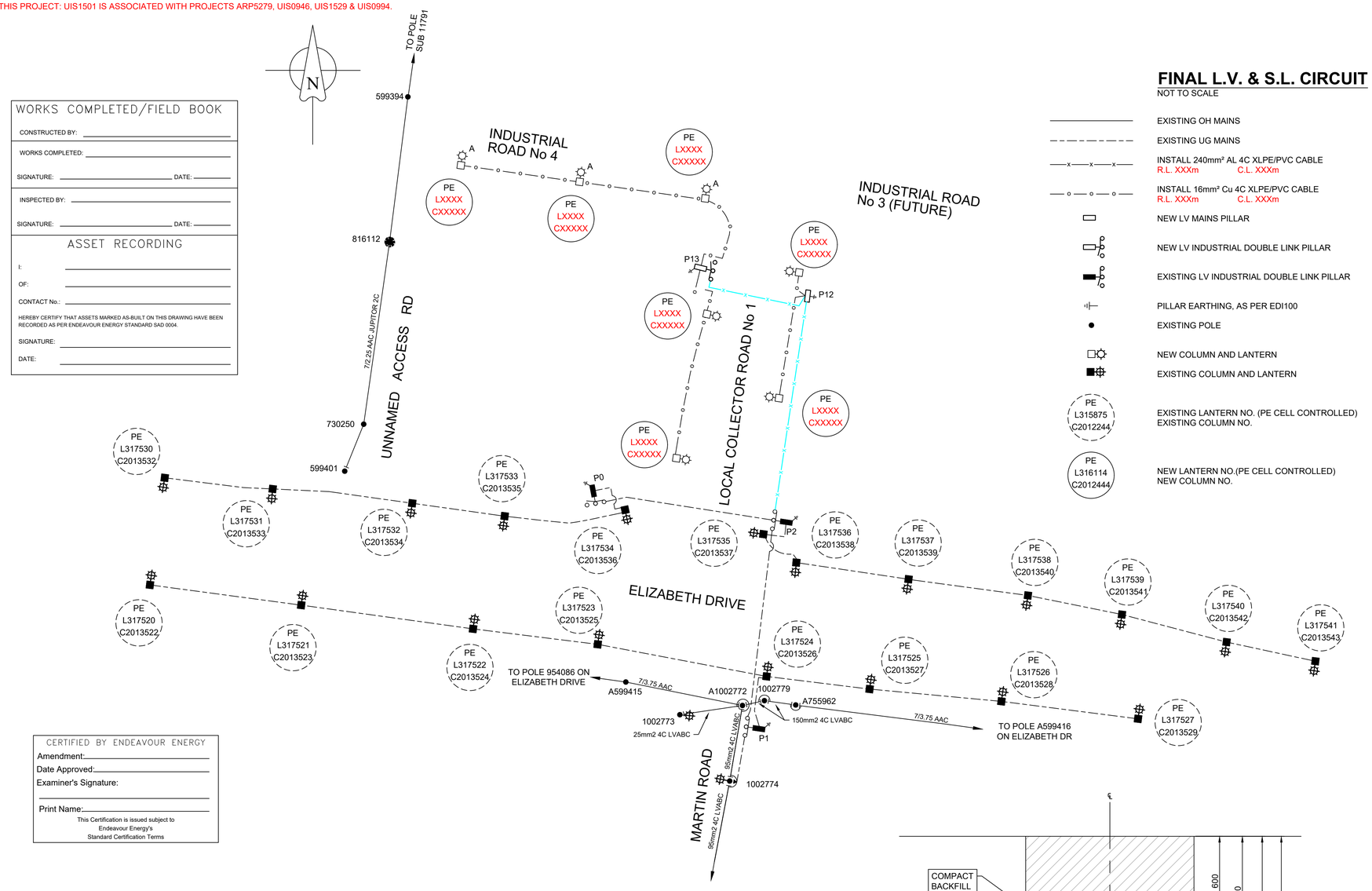
SHEET No 2 OF 5 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1501 IS ASSOCIATED WITH PROJECTS ARP5279, UIS0946, UIS1529 & UIS0994.



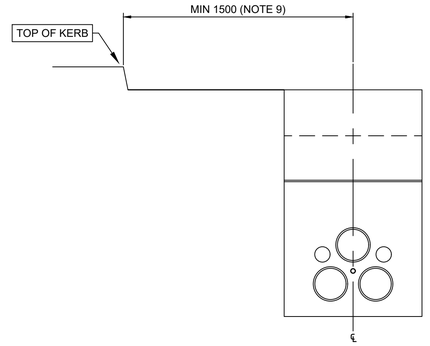
WORKS COMPLETED/FIELD BOOK	
CONSTRUCTED BY:	
WORKS COMPLETED:	
SIGNATURE:	DATE:
INSPECTED BY:	
SIGNATURE:	DATE:
ASSET RECORDING	
I:	
OF:	
CONTACT No.:	
HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.	
SIGNATURE:	
DATE:	

CERTIFIED BY ENDEAVOUR ENERGY
Amendment:
Date Approved:
Examiner's Signature:
Print Name:
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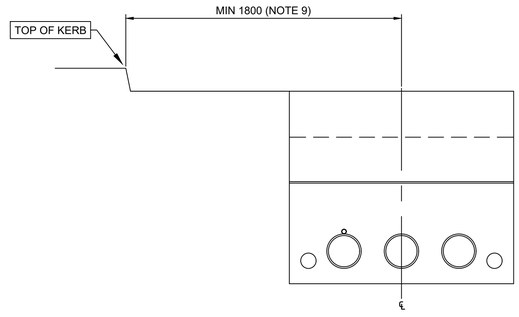
FINAL L.V. & S.L. CIRCUIT

NOT TO SCALE

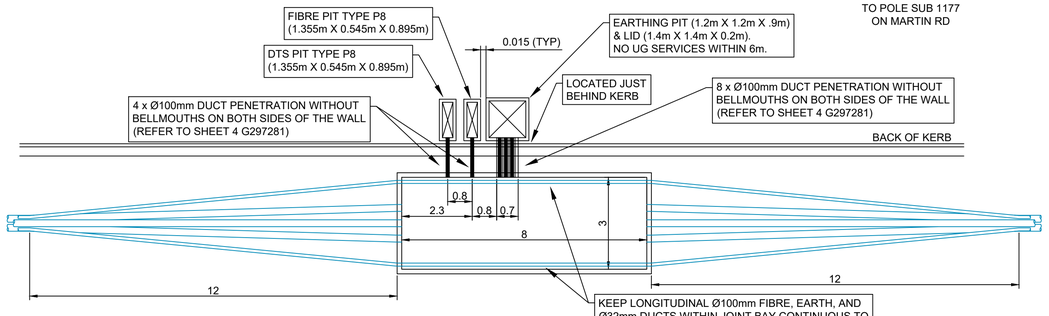
- EXISTING OH MAINS
- EXISTING UG MAINS
- INSTALL 240mm² AL 4C XLPE/PVC CABLE — R.L. XXXm C.L. XXXm
- INSTALL 16mm² Cu 4C XLPE/PVC CABLE — R.L. XXXm C.L. XXXm
- NEW LV MAINS PILLAR
- NEW LV INDUSTRIAL DOUBLE LINK PILLAR
- EXISTING LV INDUSTRIAL DOUBLE LINK PILLAR
- PILLAR EARTHING, AS PER EDI100
- EXISTING POLE
- NEW COLUMN AND LANTERN
- EXISTING COLUMN AND LANTERN
- PE L315875 C2012244 — EXISTING LANTERN NO. (PE CELL CONTROLLED) EXISTING COLUMN NO.
- PE L316114 C2012444 — NEW LANTERN NO.(PE CELL CONTROLLED) NEW COLUMN NO.

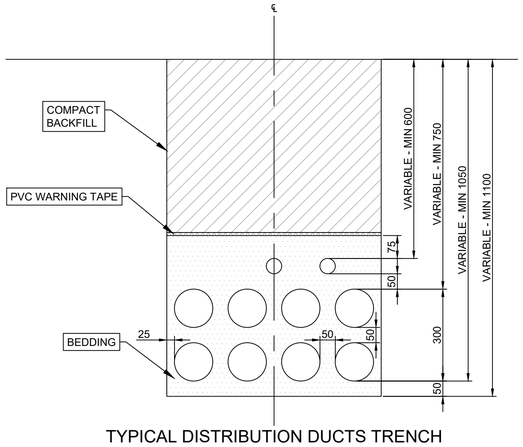


TYPICAL TRENCH TREFOIL ARRANGEMENT WITH KERB AND GUTTER

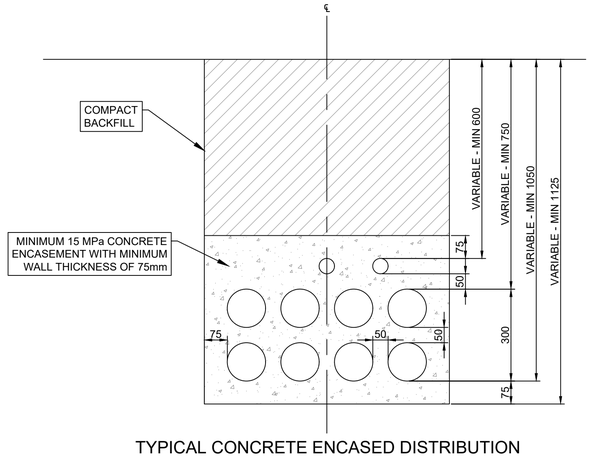


TYPICAL TRENCH FLAT ARRANGEMENT WITH KERB AND GUTTER





TYPICAL DISTRIBUTION DUCTS TRENCH IN EE VERGE ALLOCATION
(All 125mm ducts as HV ducts)



TYPICAL CONCRETE ENCASED DISTRIBUTION DUCTS TRENCH IN EE VERGE ALLOCATION
(All 125mm ducts as HV ducts)

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: ORIGINAL ISSUE — A — DRAFT No. 01

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Norwest NSW 2153
PO Box 8114
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E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No:5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1501
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS SHOWN
DRAWN	J.R.P.
DATE	09/10/2025
CH'D	O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 20 / MGA 56 COORDINATE SYSTEM
DESIGN O.B.

LOT 100, DP 1283398, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: UIS1501
INDUSTRIAL SUBDIVISION (ROADS 1 & 4)
ELECTRICAL RETICULATION

Endeavour Energy

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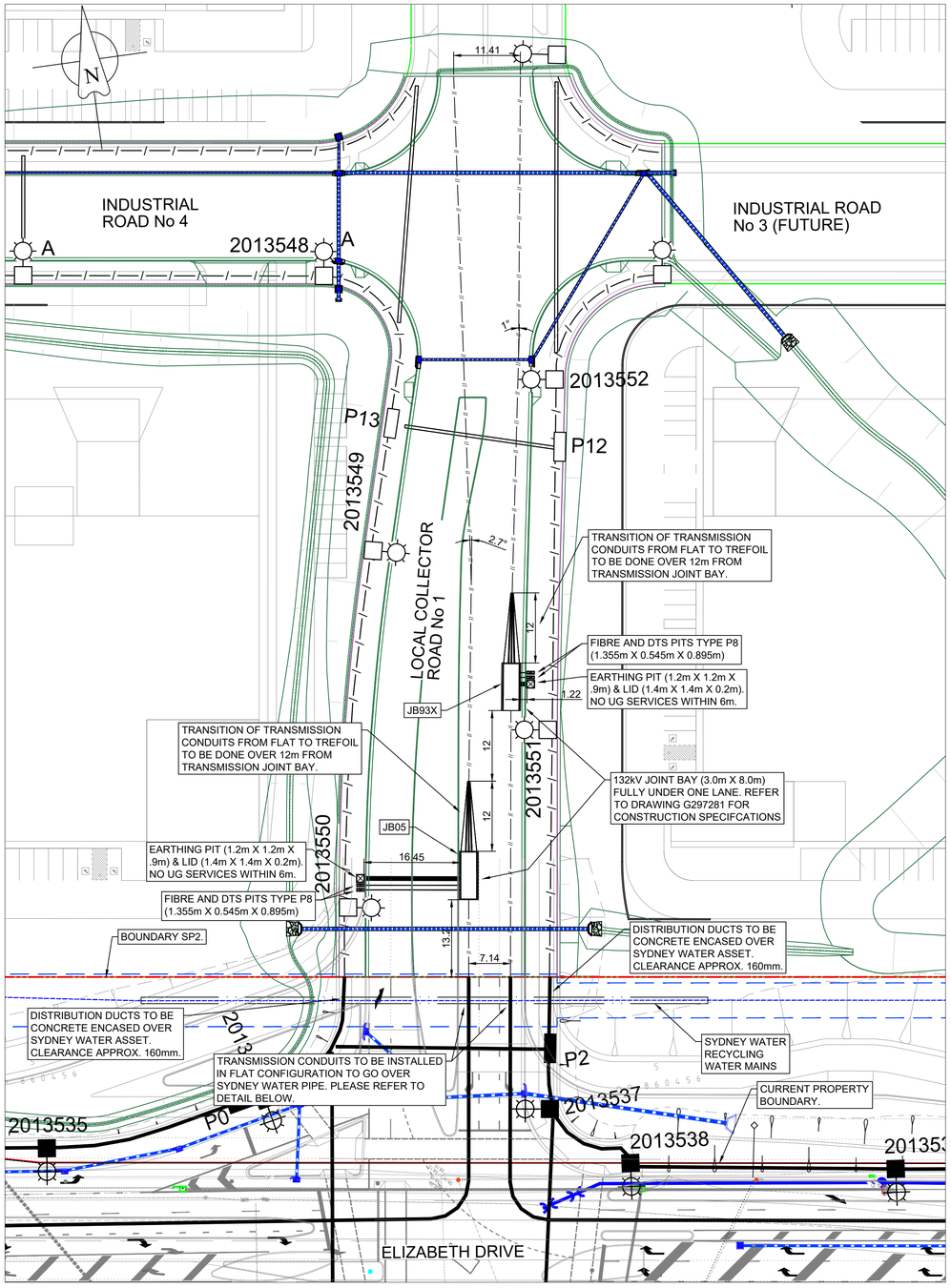
SHEET No 3 OF 5 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

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EEP INTERTERSECTION (NORTH)

SCALE 1:500

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature:

_____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

NOTES:

1. ANY TRENCH WITH A DEPTH EQUAL TO OR GREATER THAN 1500mm WILL REQUIRE SHORING.
2. ENSURE A MINIMUM 3m SEPARATION IS MAINTAINED BETWEEN THE TRANSMISSION TRENCH CENTRELINES AT ALL TIMES. IF THIS CANNOT BE ACHIEVED, PLEASE CONTACT EE.
3. 14:1 SAND/CEMENT MIX SHALL HAVE A FULLY DRY THERMAL RESISTIVITY OF LESS THAN 1.30 C.m/W. THE SAME SHOULD APPLY TO 15 MPa OR ANY OTHER CONCRETE LOCAL BACKFILLS FOR DUCT BANKS.
4. TR TEST REPORTS OF 14:1 SAND CEMENT MIX, RIVER WASHED SAND AND ANY CONCRETE (FOR SERVICE CROSSINGS) AND BENDS ARE TO BE PROVIDED TO EE'S PROJECT MANAGER OR CONSTRUCTION COORDINATOR PRIOR TO BACKFILLING.
5. WHERE CONCRETE OR 14:1 SAND/CEMENT MIXES ARE UNABLE TO BE PROCURED WITH THE REQUIRED TR VALUES, DRY AND WET TSB MIXES SHALL BE PROCURED FROM THE APPROVED PRODUCTS LIST (APL). THE APL CAN BE FOUND ON THE ENDEAVOUR ENERGY ASP PORTAL.
6. DRY TSB IS A DIRECT REPLACEMENT FOR 14:1 SAND/CEMENT MIX AND WET TSB SHOULD BE USED AS A REPLACEMENT FOR CONCRETE WHEN ENCASING DUCT BENDS AND SECTIONS THAT HAVE SERVICE CROSSINGS.
7. ALL BENDS ARE TO BE CONCRETE ENCASED (15 MPa CONCRETE WITH TR LESS THAN 1.3°Cm/W WITH A MINIMUM OF 75mm ALL AROUND CONDUITS) WITH MIN. 6m RADIUS OR AS SPECIFIED ON SITE PLANS. CONCRETE ENCASEMENT AT BENDS IS NOT REQUIRED IF WET TSB ENCASEMENT IS SHOWN FOR THAT SECTION.
8. THE MAXIMUM TRANSMISSION DUCT FLEXURE IS 2° - 3° AND DEVIATIONS GREATER THAN THIS MUST USE MIN. 6M RADIUS CONCRETE ENCASED BENDS AS SPECIFIED ABOVE. BENDS IN THE VERTICAL PLANE SHALL BE AVOIDED AND ONLY CHANGE INVERTS OVER REASONABLE GRADES, NOT VIOLATING THE 2° - 3° DUCT FLEXURE.
9. SERVICE CROSSINGS WITHIN 300mm VERTICAL SEPARATION SHALL BE CONCRETE ENCASED. CONCRETE ENCASEMENT IS NOT REQUIRED IF WET TSB ENCASEMENT IS SHOWN IN THAT SECTION.
10. UTILISE APPROPRIATE DUCT SPACERS EVERY 3M (OR LESS FOR BENDS) WITHIN TRENCHES AS REQUIRED. REFER APPROVED PRODUCTS LIST (APL) FOR APPROVED SPACERS.
11. ENSURE CONDUITS ARE CAPPED TO PREVENT MOISTURE INGRESS, AND SEALED WITH PVC GLUE.
12. DRAW WIRE/ROPE SHOULD BE LEFT IN ALL CONDUITS
13. THE ACCURACY AND COMPLETENESS OF SERVICE INFORMATION CANNOT BE GUARANTEED AND THE LOCATION OF SERVICES SHOULD BE REGARDED AS INDICATIVE.
14. THE UTILITY SERVICES SHOWN ON THE ROUTE PLAN AND GROUND PROFILE HAS BEEN SOURCED BY **XXXXX**. THE LOCATION AND DEPTH OF SERVICES IS BASED ON THE LATEST INFORMATION AVAILABLE, BUT THIS INFORMATION IS SUBJECT TO CHANGE.
15. ALL SERVICES ARE TO BE LOCATED, MARKED AND CONFIRMED WITH NON-DESTRUCTIVE DIGGING PRIOR TO EXCAVATING.
16. DUE TO PRESENCE OF EXISTING AND/OR PROPOSED STORMWATER PIPES AND KERB INLET PITS, THE OFFSET MAY NEED TO BE INCREASED TO PROVIDE APPROPRIATE HORIZONTAL SEPARATION TO PIPES AND PITS. RECOMMENDED HORIZONTAL SEPARATION TO STORMWATER PIPES AND EDGE OF PITS IS 300mm FROM EDGE OF TRENCH OR 225mm FROM EDGE OF DUCT BANK CONCRETE ENCASEMENT. PITS FOR PIPE SIZES GREATER THAN 450mm MAY REQUIRE GREATER TRENCH OFFSETS. PLEASE LIAISE WITH ROAD DESIGNERS OR ACQUIRE APPROPRIATE INFORMATION FROM COUNCILS OR TfNSW AT DESIGN STAGE.
17. WAES DRAWINGS AND SURVEY DATA SHALL BE SUBMITTED IN ACCORDANCE WITH SAD0004.

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS
A ORIGINAL ISSUE
DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
35/5-7 Inglewood Place
Norwest NSW 2153
PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1501
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS SHOWN	DO NOT SCALE	
DRAWN	J.R.P.	DIMENSIONS IN METRES	
DATE	09/10/2025	GDA 20 / MGA 56 COORDINATE SYSTEM	
CH'D	O.B.	DESIGN	O.B.

LOT 100, DP 1283398, 1669 ELIZABETH DRIVE
BADGERYS CREEK
ENDEAVOUR ENERGY NO: UIS1501
INDUSTRIAL SUBDIVISION (ROADS 1 & 4)
ELECTRICAL RETICULATION

Endeavour Energy

A1 | 535180 | A

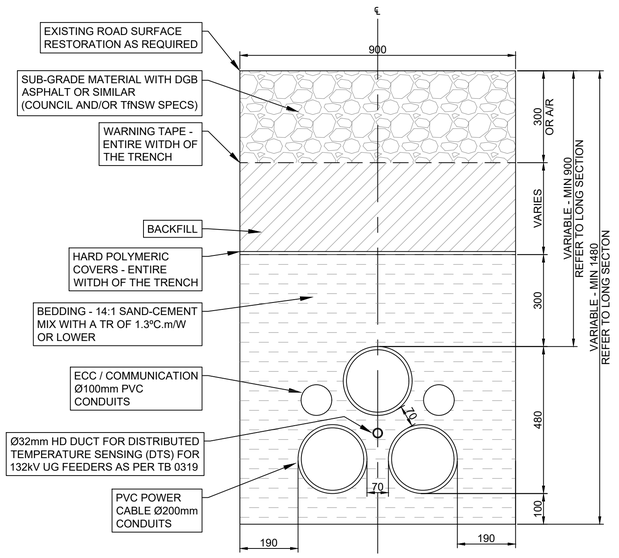
SHEET No 4 OF 5 SHEETS

100580

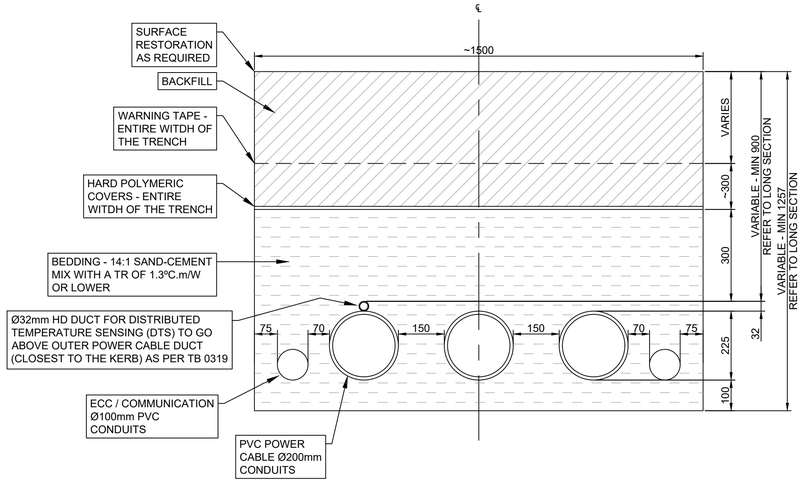
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1501 IS ASSOCIATED WITH PROJECTS ARP5279, UIS0946, UIS1529 & UIS0994.



TYPICAL TRENCH TREFOIL NON-TfNSW ROAD - DUCTS Ø200mm



TRENCH FLAT NON-TfNSW ROAD - DUCTS Ø200mm

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

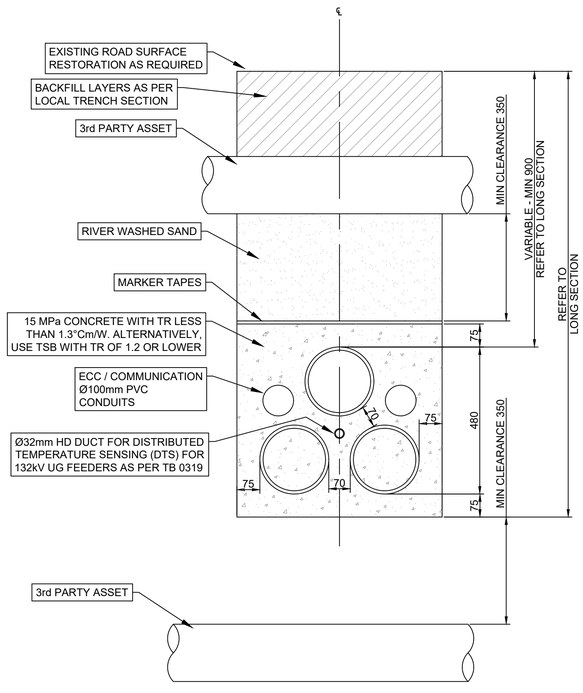
Amendment: _____

Date Approved: _____

Examiner's Signature: _____

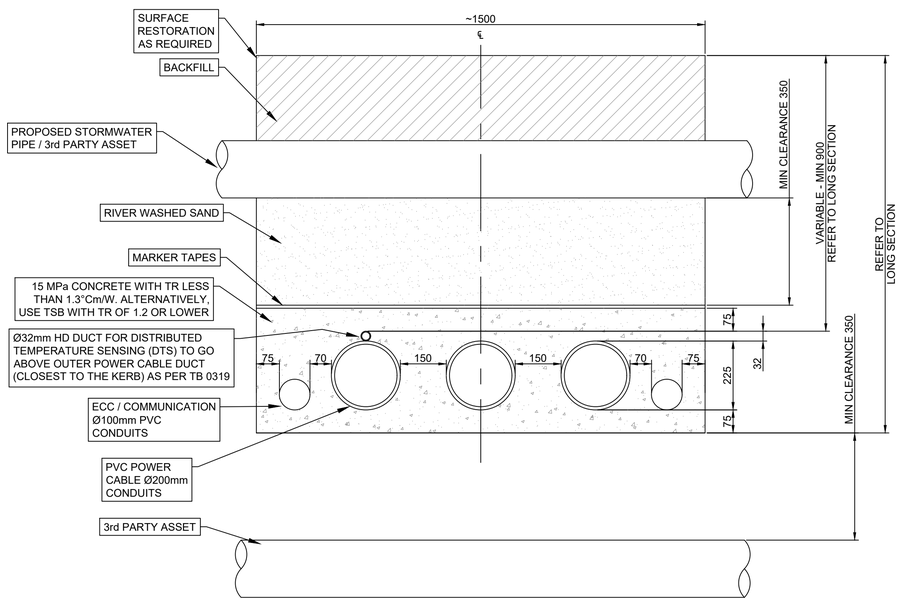
Print Name: _____

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TRENCH TREFOIL ABOVE 3rd PARTY ASSETS

NOTE: SOME SERVICES MAY REQUIRE GREATER VERTICAL SEPARATION. REFER TO LONG SECTIONS FOR DETAILS



TRENCH TREFOIL ABOVE 3rd PARTY ASSETS

NOTE: SOME SERVICES MAY REQUIRE GREATER VERTICAL SEPARATION. REFER TO LONG SECTIONS FOR DETAILS

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: ORIGINAL ISSUE — DRAFT No. 01 — A

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Level 3 ASP #2508

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EDGEWATER CONNECTIONS

TEMPLATE VERSION No 5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1501
				AM PROJ. No.	
		GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	HOXTON PARK
		UNDERGROUND		EE REGION	CENTRAL
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS SHOWN

DRAWN	J.R.P.
DATE	09/10/2025
CH'D	O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 20 / MGA 56 COORDINATE SYSTEM

DESIGN O.B.

LOT 100, DP 1283398, 1669 ELIZABETH DRIVE
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ELECTRICAL RETICULATION

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A1 | 535180 | A

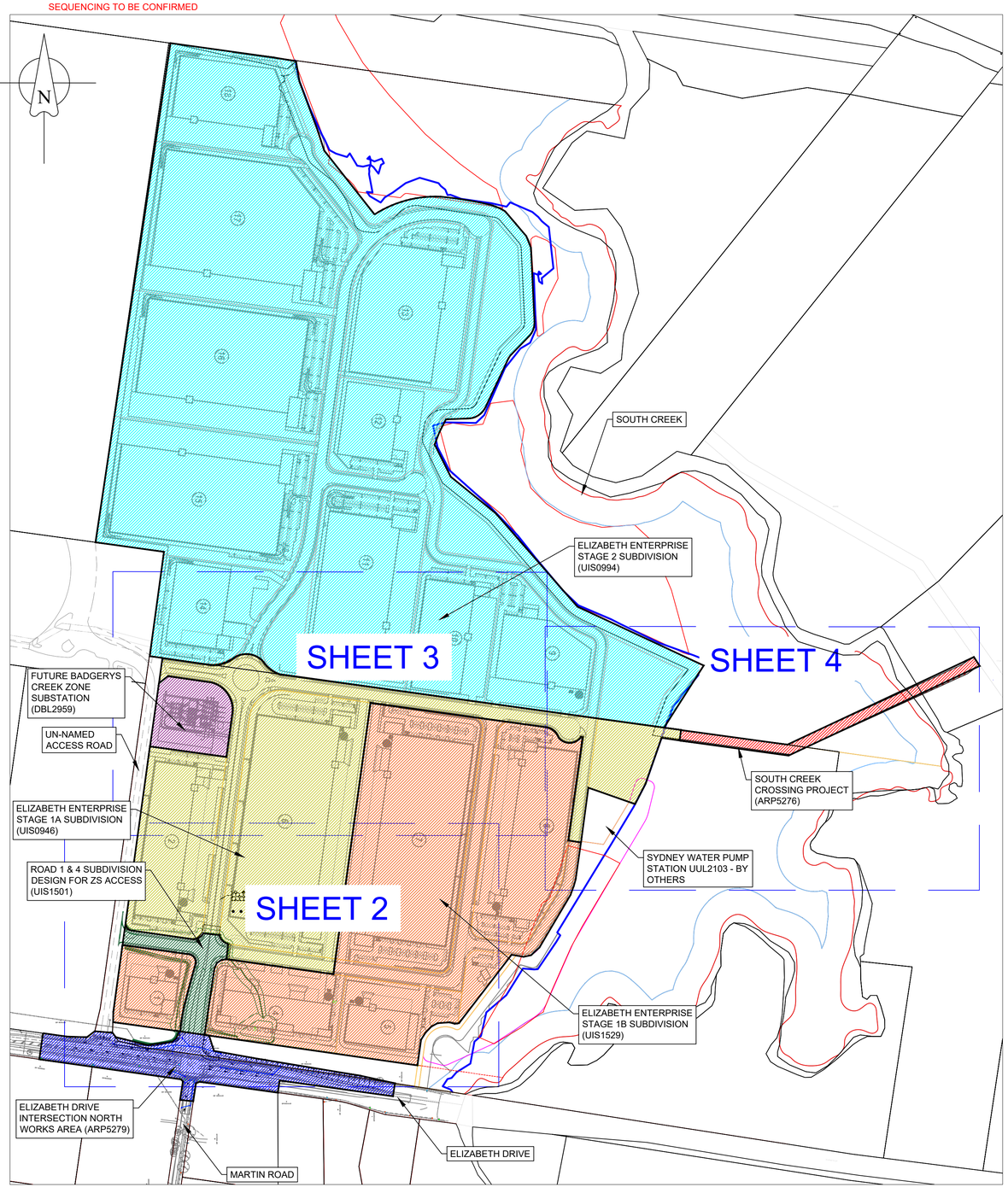
SHEET No 5 OF 5 SHEETS

100580

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT : ARP5279 IS ASSOCIATED WITH PROJECT UIS0946, SEQUENCING TO BE CONFIRMED



ELIZABETH ENTERPRISE PRECINCT LOCALITY MAP

0 40 80 120 160 200 METRES

ORIGINAL SCALE - 1:4000

Cadastre: © Land and Property Information 2016

THE CERTIFICATION OF THIS DRAWING IS SUPPORTED BY THE FOLLOWING DOCUMENTS

KEY DOCUMENTS TABLE	
DOCUMENT NAME	NOTIFICATION
SUMMARY ENVIRONMENTAL REPORT (SER) - FAT0038 PART OF EMS0003	XX/XX/2023
NOTICE OF ACCEPTANCE OF SITE - SPECIFIC CONDITIONS - FPJ4689	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252 & FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	XX/XX/2023
ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT	XX/XX/2023

DUCT DECLARATION

I _____

OF _____

CONTACT NUMBER _____

HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING & ENDEAVOR ENERGY STANDARDS MDI0028 & MCI0006. THE DUCT DEPTHS AND LOCATIONS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING AS PER ENDEAVOR ENERGY STANDARD SAD0004.

THE INSTALLATION OF THE DUCTS WAS

COMMENCED ON _____

& COMPLETED ON _____

SIGNATURE _____

LAND SURVEYOR REGISTERED UNDER SURVEYING AND SPATIAL INFORMATION ACT 2002

DUCT INSTALLATION ACCEPTANCE BY THE ASP

I have accepted the conduits as marked up on this drawing in compliance to SAD0004 and confirm that:
All the conduits installed by the ASP are:

- in accordance with MDI0028 & MCI0006
- are correct as per the WAE marked up design drawing provided

All conduit groups installed by the developer where accessed by the ASP during construction have been checked by me and I verify that:

- string lines are installed within all the conduits
- continuity of all conduits was confirmed
- all ends of conduits have been sealed as per standards
- exposed ducts at open ends appear to be installed in accordance with MDI0028 & MCI0006

THE INSTALLATION OF DUCT WAS VERIFIED BY ME ON
NAME:
SIGNATURE:
DATE:
ASP COMPANY:
LEVEL 1 ASP COMPANY COMPETENT PERSON

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: $ _____

Date: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

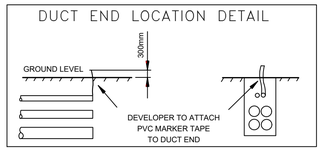
Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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DUCT END LOCATION DETAIL



THIS DRAWING WILL SUPPLY 2 LOTS

C.A.P. No	FILE No	LOT Nos	No.of LOTS	DEVELOPER	DEVELOPERS REP	PHONE No.
UIS0946		-	-	MIRVAC INDUSTRIAL DEVELOPMENT	MEIGHAN WOODS (MIRVAC)	02 9080 8836
TBC		LOT 2	1			
TBC		LOT 6	1			

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ENDEAVOUR ENERGY'S NETWORK STANDARDS AND CONNECTION POLICY.
2. ACCREDITED DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
3. ENDEAVOUR ENERGY CONTACT PHONE: 131 081
4. DESIGN CERTIFICATION SHALL LAPSE WHERE:-
   (I) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN (6) SIX MONTHS OF THIS CERTIFICATION.
   (II) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN (6) MONTHS.
   WHERE DESIGN CERTIFICATION HAS LAPSED THE DESIGN MUST BE RESUBMITTED BY THE ACCREDITED SERVICE PROVIDER FOR RE-CERTIFICATION.
5. DEVELOPER SHALL PEG ALL PROPERTY BOUNDARIES INCLUDING ANY EASEMENTS AND ESTABLISH FINAL LEVELS PRIOR TO COMMENCEMENT OF WORKS.
6. ATTENTION
   TELSTRA & OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. TELSTRA & OPTUS UNDERGROUND ASSETS LOCATED IN THE AREA. CONTACTS
   TELSTRA NETWORK INTEGRITY HELP DESK: 1800 653 935
   OPTUS: 8082 0161
   NBN: RELOCATIONWORKS@NBNCO.COM.AU
7. ATTENTION
   SYDNEY WATER TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. CONTACTS
   SYDNEY WATER :(02) 8849 3800
8. ATTENTION
   PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
9. ATTENTION
   SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSETS DATA CUSTOMER DEPT DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131081.
10. WARNING
    LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG, TEL. 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.
11. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND/ OR CONSTRUCTION.
12. THE PREPARATION OF THIS DESIGN HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES. NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
13. OPERATIONAL LIMITS.
    UNLESS APPROVED OTHERWISE, INTERRUPTION TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
    -MOBILE GENERATORS AND SUBSTATIONS
    - LIVE LINE WORK
    - DESIGN ALTERNATIVES, LOW VOLTAGE PARALLELS
    - WORK PRACTICES/STANDARDS
    THE COST IS TO BE FUNDED BY THE CUSTOMER
14. ENVIRONMENT MANAGEMENT PLAN EMP ENDEAVOUR ENERGY COMPANY DOCUMENT EMS0001 IS PART OF THIS DESIGN.
15. HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN? YES
16. THE EASEMENT FOR THE PADMOUNT SUBSTATION SITES (5.5m x 2.75m) IS TO BE CREATED IN FAVOUR OF ENDEAVOUR ENERGY WITHIN PROPOSED LOTS 2 & 3. THIS EASEMENT IS A MINIMUM SIZE ONLY, MUST BE LEVEL, AND MUST BE FREE OF ALL OTHER SERVICES.
17. A RESTRICTION ON USE OF LAND IN RELATION TO THE FIRE RATING OF THE BUILDING MEASURED 3m FROM THE SUBSTATION PLINTH IS TO BE CREATED IN FAVOUR OF ENDEAVOUR ENERGY WITHIN PROPOSED LOTS 2 & 3.
18. FIRE HYDRANTS AND BOOSTER VALVES ARE NOT TO BE LOCATED WITHIN 10m MEASURED FROM THE SUBSTATION/ SWITCHING STATION PLINTH.
19. THE SUBSTATION MUST BE LOCATED MORE THAN 5m FROM A TELECOMMUNICATIONS PIT.
20. FINAL LOCATION OF EASEMENT FOR SUBSTATION SITE TO BE SURVEYED, AND PEGGED BY PROPONENT (OR THEIR REPRESENTATIVE) PRIOR TO CONSTRUCTION.
21. EARTHING OF THE SUBSTATIONS AND SWITHCING STATION TO BE CARRIED OUT IN ACCORDANCE WITH ENDEAVOUR ENERGY EDI 100. COMMON EARTHING TO BE ACHIEVED. THE EARTHING DIAGRAM IS A GUIDE ONLY AND SHOWS A MINIMUM REQUIREMENT. ADDITIONAL EARTHING MAY BE REQUIRED TO MEET THE REQUIRED MAXIMUM EARTH RESISTANCE MEASUREMENTS AS STATED IN ENDEAVOUR ENERGY'S EDI 100.
22. CENTRELINE OF ALL SL COLUMNS ARE TO BE INSTALLED AT 350mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
23. CENTRELINE OF ALL LV PILLARS ARE TO BE INSTALLED AT 300mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
24. STREETLIGHT COLUMNS AND LV PILLAR MUST BE INSTALLED AT LEAST 300mm FROM EXISTING AND PROPOSED DRIVEWAYS AS PER EE STANDARDS.
25. A MINIMUM OF 500mm SEPARATION IS REQUIRED BETWEEN STREET LIGHT COLUMNS AND ADJACENT PILLARS.
26. ALL STREET LIGHTING CABLE TO BE INSTALLED IN 50mm DUCTS.
27. ENSURE END OF SERVICE DUCTS ARE NOT PLACED UNDER PROPOSED DRIVEWAYS. REFER DEVELOPER REPRESENTATIVE FOR COORDINATION PURPOSE.
28. ELECTRICAL CONDUCTS AND CABLES MUST BE MECANICALLY PROTECTED AS PER MCI0006 SECTION 4.4.2 WHEN CROSSING WITHIN 300mm TO ANOTHER UTILITIES SERVICE.
29. UNRESTRICTED 24 HOUR / 7 DAY ACCESS MUST BE PROVIDED TO ENDEAVOUR ENERGY STAFF & VEHICLES TO NEW SUBSTATION/ELECTRICAL EQUIPMENT AS PER MCI 0006 ACCESS 7.1.2 REQUIREMENTS.

PIONEER COST SHARE REIMBURSEMENT SCHEME - Expiry Date dd/mmm/yyyy Pre-Calculated Reimbursement for Customer Load Over 50kVA

Asset	Asset Cost Estimate ($)	Unit Quantity (km)	Net Asset Capacity (kVA)	Original Customer Utilisation (kVA)	Maximum Reimbursement Amount ($)
HV Mains	N/A	N/A	N/A	N/A	N/A
LV Mains	N/A	N/A	N/A	N/A	N/A
Substation	N/A	N/A	N/A	N/A	N/A

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS

ENDEAVOUR ENERGY SUPPLIED MATERIALS

NIL

ENDEAVOUR ENERGY FUNDED & CONSTRUCTED

WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT	WORKS REQUIRED IN ASSOCIATION OF CUSTOMER CONTESTABLE PROJECT
NIL	NIL

ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSMENT (EXC GST)

ACTIVITY	QUANTITY	REIMBURSEMENT
VALUE OF 22kV 500kVA TRANSFORMER	1	$ 11,154.00
EE REIMBURSEMENT CHARGES FOR HV 125mm DUCTS @ $27/m	1308m	$ 35,316.00
TOTAL EE REIMBURSEMENT (EXCLUDING PM & DESIGN)	-	$ 28,621.00
TOTAL EE CAPITAL CONTRIBUTION	-	$ 31,397.00

CUSTOMER FUNDED NON-CONTESTABLE WORKS

- MONOPOLY FEES
INSPECTION AND ACCESS AUTHORITY
- SYSTEM SWITCHING
- PROVISION OF ACCESS AUTHORITY (AS PER FEE SENT BY EE'S CWA'S)

CUSTOMER FUNDED CONTESTABLE WORKS

ALL OTHER WORKS AND MATERIALS INCLUDING BUT NOT LIMITED TO:
- SUBSTATION INSTALLATION
- EARTHING
- TRENCHING
- DUCT INSTALLATION
- CABLE LAYING AND/OR INSTALLATIONS
- TERMINATIONS
- PILLAR & COLUMN INSTALLATION
- STREET LIGHT INSTALLATION
- TRAFFIC MANAGEMENT
- OUTAGE OF HV

CUSTOMER

CUSTOMER FUNDED

INCLUDES BUT IS NOT LIMITED TO:
- PEGGING OF EASEMENTS, PROPERTY BOUNDARIES & INFRASTRUCTURE LOCATIONS
- PROVIDING SITE ACCESS
- OWN SERVICE & SERVICE CONNECTION
- CONFIRM FINISHED GROUND LEVELS
- REGISTERING OF EASEMENTS

EXISTING DUCT USAGE CHARGES (EXC GST)

287m @ $23/m = $ 6,601.00

CO-ORDINATION SUPPLY REQUIRED DATE

01 MAY 2020

ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY LV 1 ASP

NIL

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AMENDMENTS: ORIGINAL ISSUE — A — DRAFT No. 01

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REFERENCE DRAWING'S		WORK ORDERS			
XXXXX	DUCT, TRENCHING AND EASEMENT PLAN	GENERAL		CAMS File No.	UIS0946
		OVERHEAD		AM PROJ. No.	
		UNDERGROUND		HV SWITCHING	
		SUBSTATIONS		EE DEPOT	PENRITH
				EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED	DO NOT SCALE	DIMENSIONS IN METRES
DRAWN	J.R.P.		GDA 2020 / MGA 56 COORDINATE SYSTEM
DATE	14/10/2025	DESIGN	J.R.P.
CH'D	O.B.		

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

SHEET No 1 OF XYZ SHEETS

100517

CONTINUE ON SHEET 3

CONTINUE ON SHEET 4

ESTABLISH NEW PM SUB NO: 01
TRANSFORMER SIZE: 1000kVA
VOLTAGE (11kV/22kV): 22kV
HV SW/GR: RTR - AUTOMATED
HV FUSE (HRC): 40A
LV SW/GR: LVCB 2500A + 2 x CAT 2 FUSE STRIP
LV FUSE: 400A
SUBSTATION CUBICLE SIZE: 16
EARTHING SYSTEM: COMMON
PLINTH: GALVANIZED

EXISTING LV PILLAR TO SUPPLY AUTOMATED RMU SWITCHING STATION N0. 01

FUTURE ASSEST TO BE INSTALLED UNDER STAGE 1B.

ESTABLISH NEW SWITCHING STATION NO: 01
VOLTAGE (11kV/22kV): 22kV
HV SW/GR: RRRR - AUTOMATED SCADA
SWITCHING STATION CUBICLE SIZE: 16
EARTHING SYSTEM: COMMON
PLINTH: GALVANIZED

UNNAMED ACCESS RD
LOCAL COLLECTOR ROAD 1
INDUSTRIAL ROAD 4
INDUSTRIAL ROAD 3
INDUSTRIAL ROAD 3 (STAGE 1B)
INDUSTRIAL ROAD 2 (STAGE 1B)
PARK EDGE ROAD (STAGE 1B)
ELIZABETH DR
MARTIN RD
AMENITY NODE

LOT 1 LOT 2 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8

1725-1743
LOT 4
DP 860456

1970
LOT 11
DP 860338

10
LOT 10
DP 226448

SP SUB
1177
599407

599395 599394 599401 599431 599416 599417 599418
816112 730250 954086 A599418 A755962
ABS 83499

P0 P1 P2 P9 P10 P12 P13
C7 C8 C9 C10 C11 C13 C13A C13B C14 C35 C36 C37 C38 C39 C40 CXX CX
JB93X JB05
2013523 2013524 2013525 2013526 2013527 2013528 2013529 2013535 2013536 2013537 2013538 2013539 2013540 2013541 2013542 2013543
1002772 1002773 1002774 1002779

LEGEND

- EXISTING POLE SUBSTATION
- NEW PADMOUNT SUBSTATION LOCATION
- NEW SWITCHING STATION LOCATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- AIR BREAK SWITCH

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

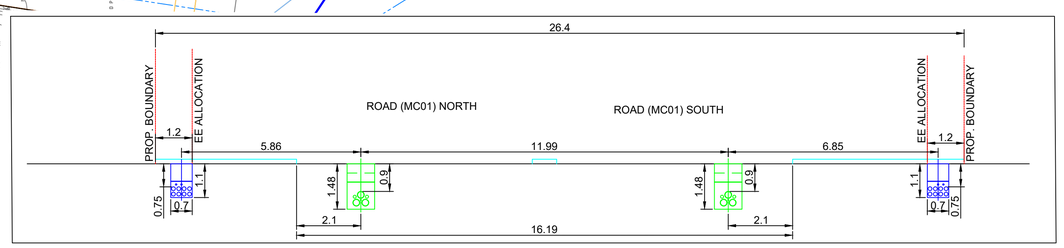
Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

SITE PLAN 1

0 10 20 30 40 50 METRES

ORIGINAL SCALE - 1:1000



TRENCH SECTION VIEW '2'

SCALE 1:10

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

Cadastre: © Land and Property Information 2016

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TEMPLATE VERSION No.5.20

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	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
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		SUBSTATIONS		EE REGION	NORTHERN
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DRAWN: J.R.P.
DATE: 14/10/2025
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DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM
DESIGN: J.R.P.

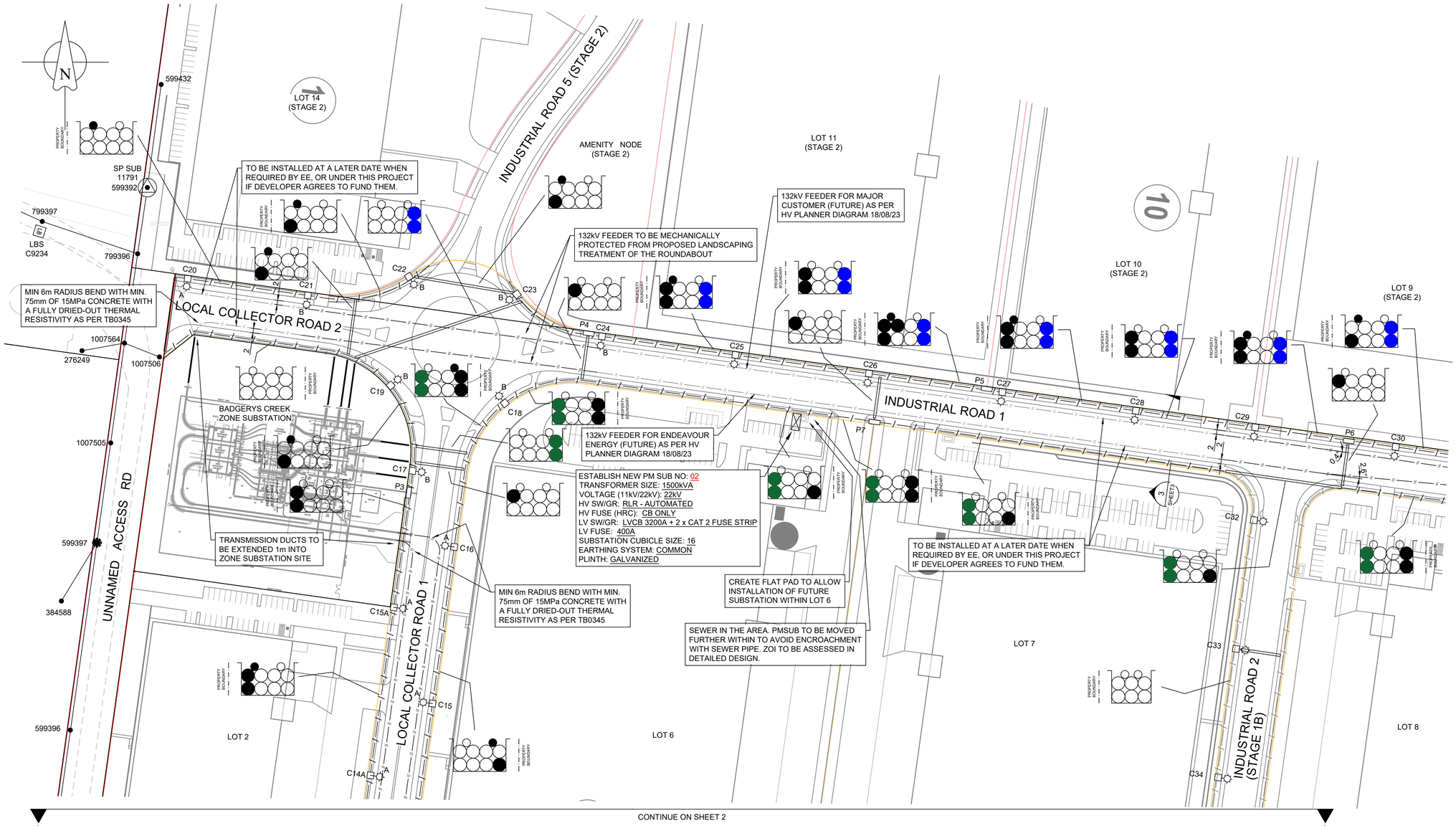
LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

SHEET No 2 OF XYZ SHEETS

100517



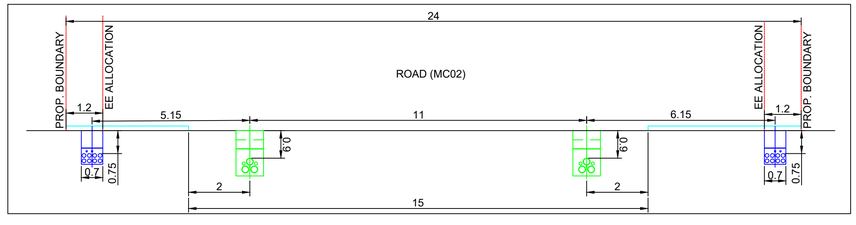
LEGEND

- EXISTING POLE SUBSTATION
- NEW PADMOUNT SUBSTATION LOCATION
- NEW SWITCHING STATION LOCATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- AIR BREAK SWITCH

SITE PLAN 2

0 10 20 30 40 50 METRES

ORIGINAL SCALE - 1:1000



TRENCH SECTION VIEW '3'

SCALE 1:10

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

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DATE: _____

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Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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AMENDMENTS | ORIGINAL ISSUE | DRAFT No. 01 | A

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
35/5-7 Inglewood Place
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PO Box 8114
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P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509
EDGEWATER CONNECTIONS

TEMPLATE VERSION No:5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS0946
XXXXX	DUCT, TRENCHING AND	GENERAL		AM PROJ. No.	
	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED
DRAWN J.R.P.
DATE 14/10/2025
CH'D O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM
DESIGN J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

SHEET No 3 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

ESTABLISH NEW AUTO-TRANSFORMER NO: 01
TRANSFORMER SIZE: 3000kVA
VOLTAGE (11kV/22kV): 22kV/11kV
HV SW/GR (11kV END): SIEMENS RLR
HV SW/GR (22kV END): SIEMENS RLR
HV FUSE: CB ONLY
SUBSTATION CUBICLE SIZE: 16
EARTHING SYSTEM: COMMON
PLINTH: GALVANIZED

ESTABLISH NEW AUTO-TRANSFORMER NO: 02
TRANSFORMER SIZE: 3000kVA
VOLTAGE (11kV/22kV): 22kV/11kV
HV SW/GR (11kV END): SIEMENS RLR
HV SW/GR (22kV END): SIEMENS RLR
HV FUSE: CB ONLY
SUBSTATION CUBICLE SIZE: 16
EARTHING SYSTEM: COMMON
PLINTH: GALVANIZED

LOT 9
PARK EDGE ROAD (STAGE2)
INDUSTRIAL ROAD 1
PARK EDGE ROAD
PARK EDGE ROAD (STAGE 1B)
DRAINAGE RESERVE
SYDNEY WATER TREATMENT PLAN
FUTURE ASSEST TO BE INSTALLED UNDER STAGE 1B.
C31
C31A
C46
P11
C45
C44
C43
C42
C41
CONTINUE ON SHEET 2 & 3
SHEET 4
ENZ
SOUTH CREEK

EXISTING CONDUITS TO BE INSTALLED UNDER PROJECT ARP5276. EASEMENT WIDTH 16m

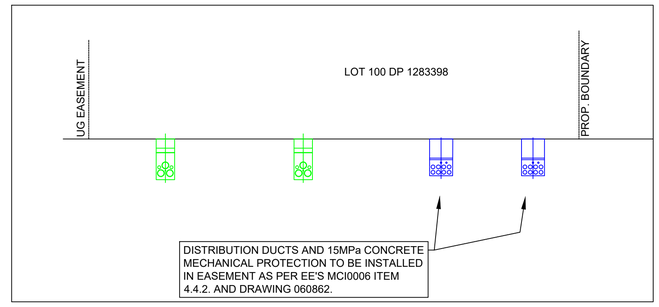
EXISTING CONDUITS TO BE INSTALLED UNDER PROJECT ARP5276. EASEMENT WIDTH 16m

620525
DOF 231888
ABS 231887
USL E309
146B LOT 1 DP 1280136
1541A LOT 22 DP 601022

EXISTING FIRST HV FEEDER DESIGN UNDER PROJECT ARP5112 AND SECOND HV FEEDER DESIGN UNDER PROJECT ARP5214

IF ARP5214 HAPPENS BEFORE UIS0946:
- REMOVED HV UGOH ON POLE 3 (No.1001678).
- INSTALL 240mm² Cu 3C 22KV XLPE/PVC CABLE AND STJ TO THE FEEDER KC1221/A.
- CLOSE ABS 231887 ON POLE 2 (No.1001677).

IF ARP5214 HAPPENS AFTER UIS0946:
- INSTALL HV UGOH ON POLE 3 (No.1001678).
- EXTEND 240mm² Cu 3C 22KV XLPE/PVC CABLE TO HV UGOH ON POLE 3 (No.1001678).
- CLOSE ABS 231887 ON POLE 2 (No.1001677).



TRENCH SECTION VIEW '4'

SCALE 1:10

SITE PLAN 3

ORIGINAL SCALE - 1:1000

LEGEND

- EXISTING POLE SUBSTATION
- NEW PADMOUNT SUBSTATION LOCATION
- NEW SWITCHING STATION LOCATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- AIR BREAK SWITCH

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

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AMENDMENTS
ORIGINAL ISSUE
A DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
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PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

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TEMPLATE VERSION No5.20

REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS0946
XXXXX	DUCT, TRENCHING AND	GENERAL		AM PROJ. No.	
	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED
DRAWN	J.R.P.
DATE	14/10/2025
CH'D	O.B.
DESIGN	J.R.P.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56
COORDINATE SYSTEM

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

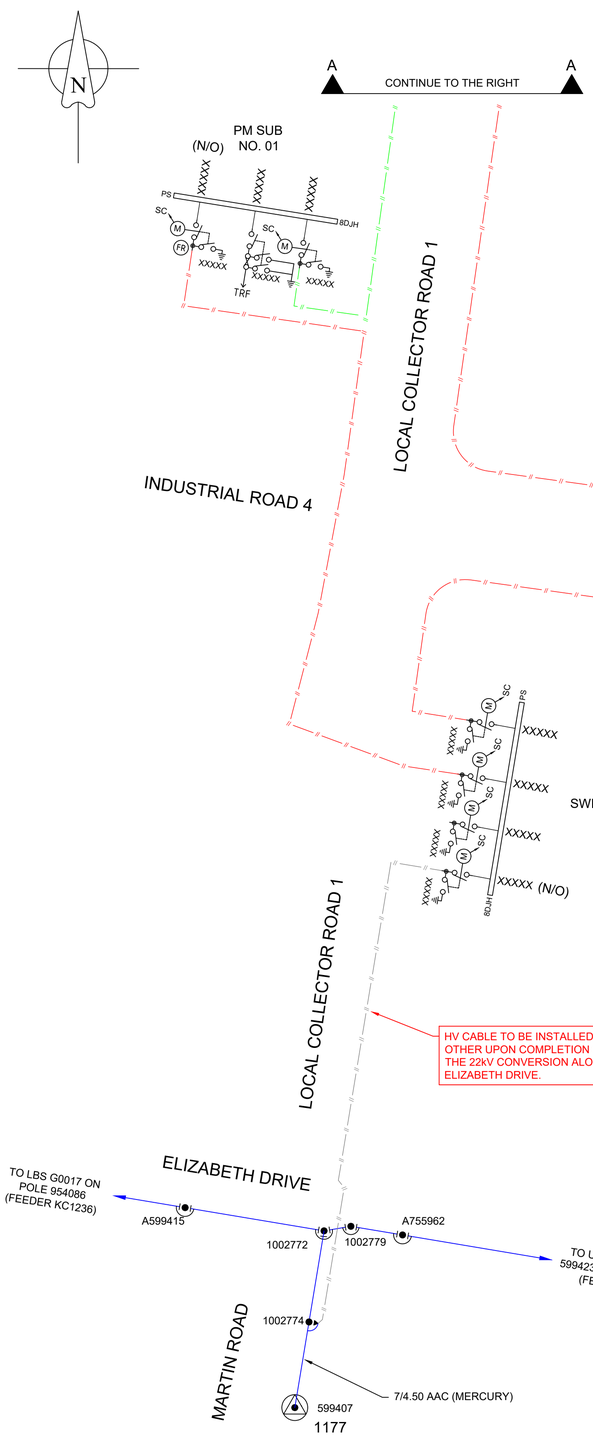
SHEET No 4 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

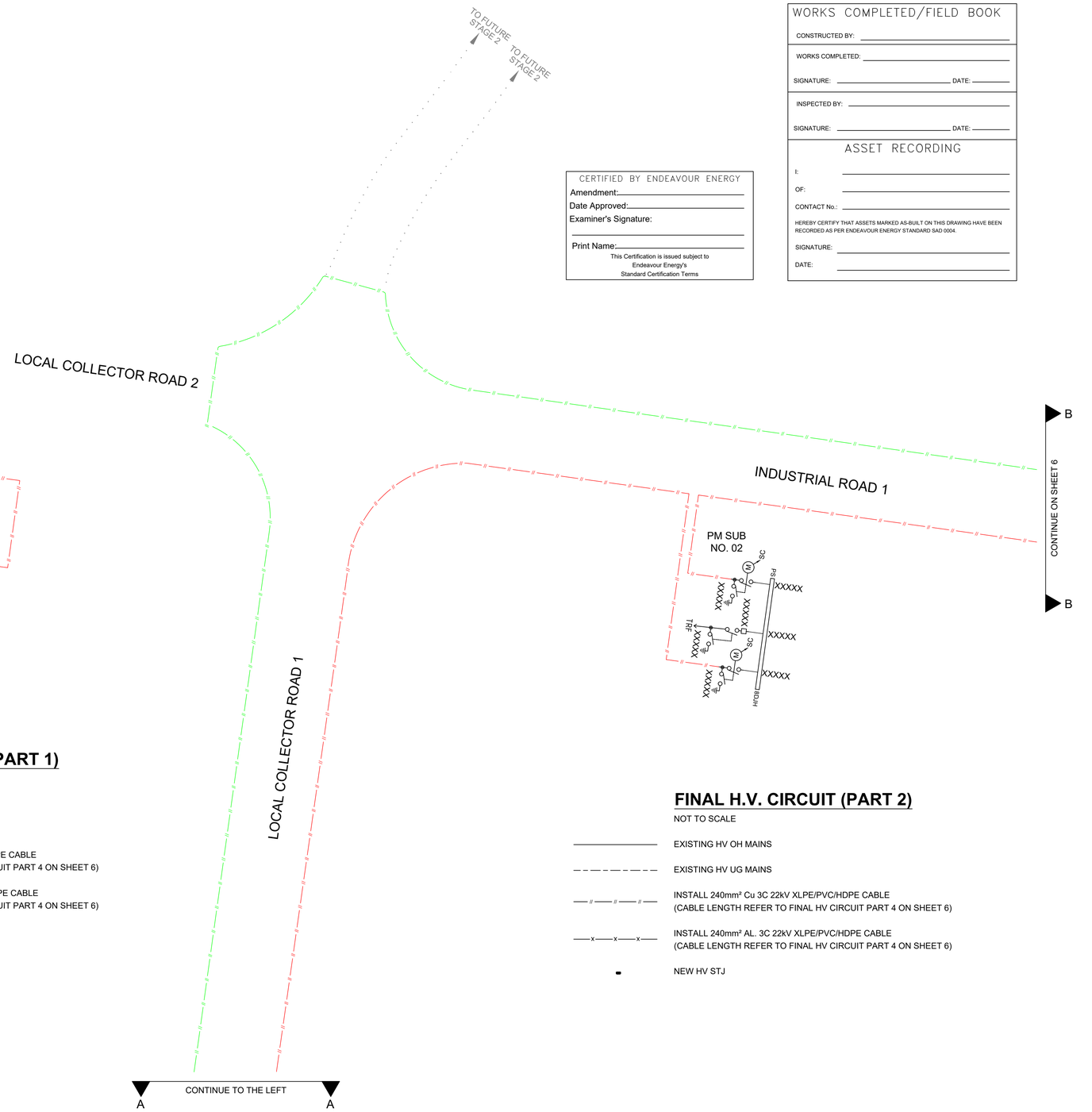
- THIS PROJECT: UIS0946 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501 & UIS0994.



FINAL H.V. CIRCUIT (PART 1)

NOT TO SCALE

- EXISTING HV OH MAINS
- EXISTING HV UG MAINS
- INSTALL 240mm² Cu 3C 22kV XLPE/PVC/HDPE CABLE (CABLE LENGTH REFER TO FINAL HV CIRCUIT PART 4 ON SHEET 6)
- INSTALL 240mm² AL. 3C 22kV XLPE/PVC/HDPE CABLE (CABLE LENGTH REFER TO FINAL HV CIRCUIT PART 4 ON SHEET 6)
- NEW HV STJ



FINAL H.V. CIRCUIT (PART 2)

NOT TO SCALE

- EXISTING HV OH MAINS
- EXISTING HV UG MAINS
- INSTALL 240mm² Cu 3C 22kV XLPE/PVC/HDPE CABLE (CABLE LENGTH REFER TO FINAL HV CIRCUIT PART 4 ON SHEET 6)
- INSTALL 240mm² AL. 3C 22kV XLPE/PVC/HDPE CABLE (CABLE LENGTH REFER TO FINAL HV CIRCUIT PART 4 ON SHEET 6)
- NEW HV STJ

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

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SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

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A DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
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PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS0946
XXXXX	DUCT, TRENCHING AND	GENERAL		AM PROJ. No.	
	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P.

DATE 14/10/2025

CH'D O.B.

DO NOT SCALE

DIMENSIONS IN METRES

GDA 2020 / MGA 56 COORDINATE SYSTEM

DESIGN J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 XXXXX A

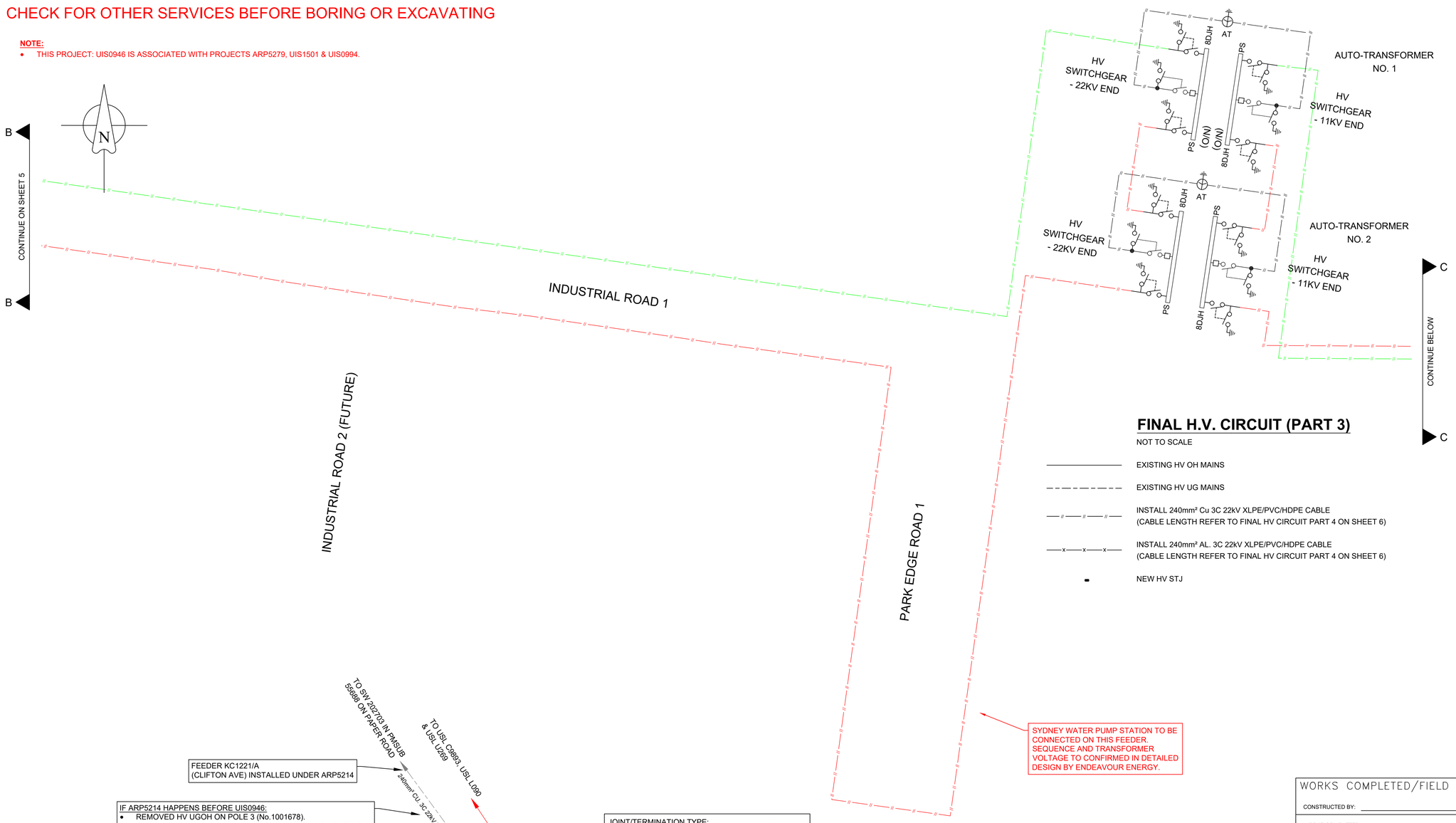
SHEET No 5 OF XYZ SHEETS

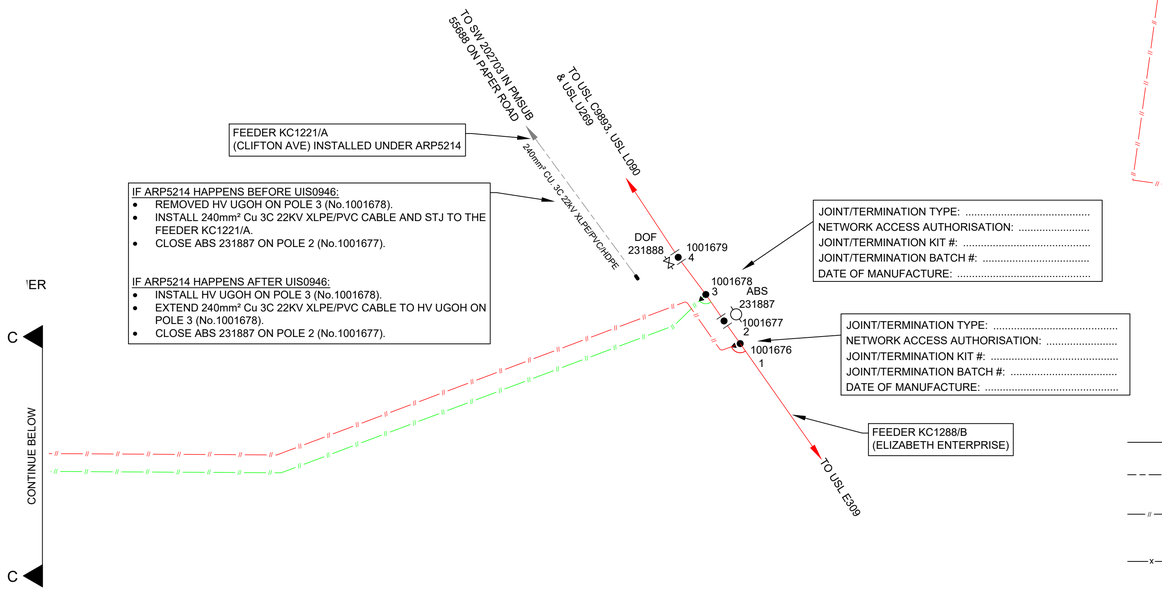
100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS0946 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501 & UIS0994.





FINAL H.V. CIRCUIT (PART 3)

NOT TO SCALE

- EXISTING HV OH MAINS
- EXISTING HV UG MAINS
- INSTALL 240mm² Cu 3C 22kV XLPE/PVC/HDPE CABLE (CABLE LENGTH REFER TO FINAL HV CIRCUIT PART 4 ON SHEET 6)
- INSTALL 240mm² AL. 3C 22kV XLPE/PVC/HDPE CABLE (CABLE LENGTH REFER TO FINAL HV CIRCUIT PART 4 ON SHEET 6)
- NEW HV STJ

FINAL H.V. CIRCUIT (PART 4)

NOT TO SCALE

- EXISTING HV OH MAINS
- EXISTING HV UG MAINS
- INSTALL 240mm² Cu 3C 22kV XLPE/PVC/HDPE CABLE R.L. XXXm C.L. XXXm
- INSTALL 240mm² AL. 3C 22kV XLPE/PVC/HDPE CABLE R.L. XXXm C.L. XXXm
- NEW HV STJ

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

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OF: _____

CONTACT No.: _____

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DRAFT No. 01

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P: +612 8814 1299
E: info@edgewaterconnections.com.au
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Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No:5.20

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XXXXX	DUCT, TRENCHING AND			AM PROJ. No.	
	EASEMENT PLAN	GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	PENRITH
		UNDERGROUND		EE REGION	NORTHERN
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED
DRAWN	J.R.P.
DATE	14/10/2025
CH'D	O.B.
DESIGN	J.R.P.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
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ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

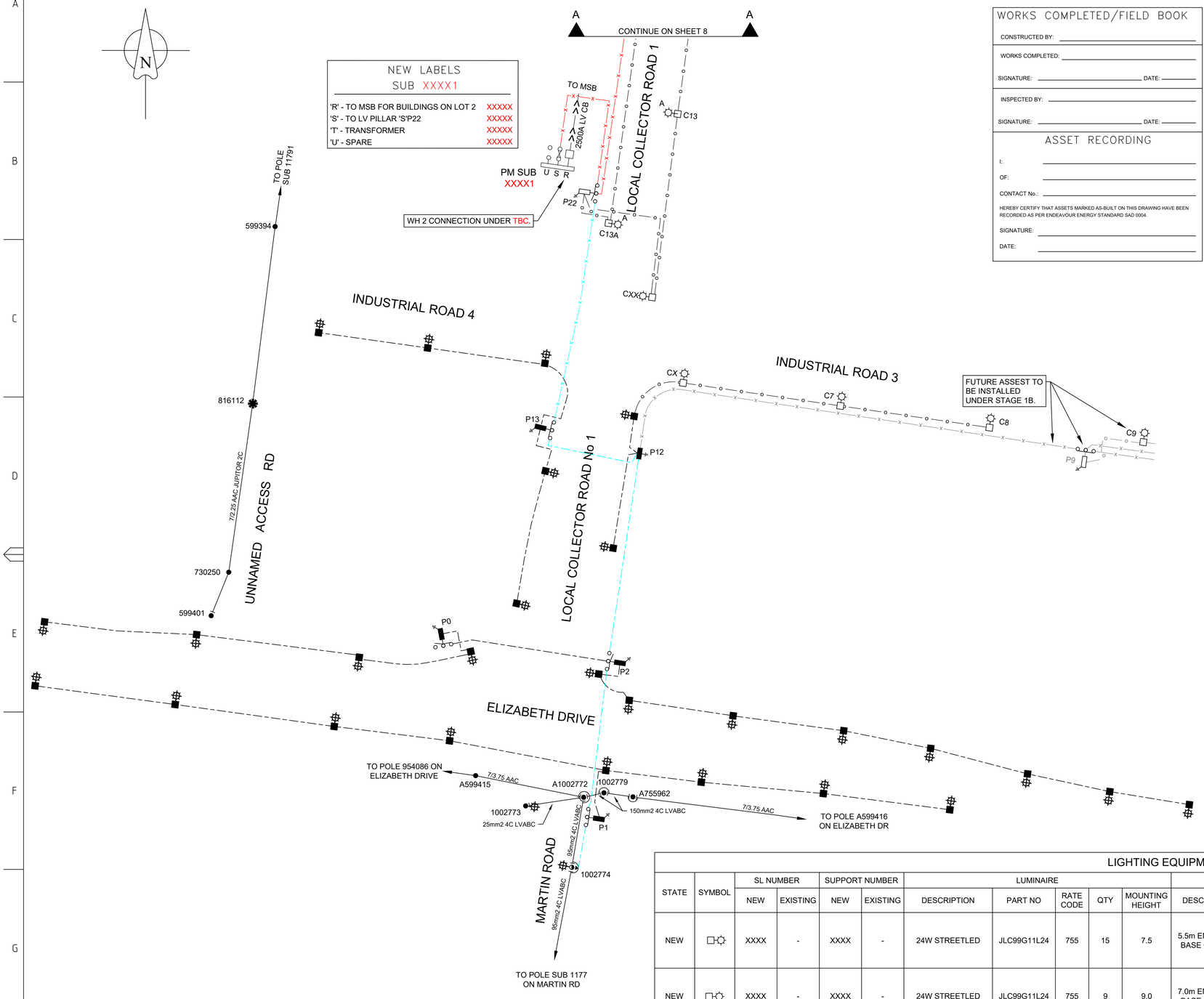
SHEET No 6 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS0946 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501 & UIS0994.



WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

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SIGNATURE: _____

DATE: _____

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Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

FINAL L.V. & S.L. CIRCUIT (PART 1)

NOT TO SCALE

- EXISTING OH MAINS
- EXISTING UG MAINS
- INSTALL 240mm² AL 4C XLPE/PVC CABLE (REFER TO FINAL LV & SL CIRCUIT ON SHEET 9)
- INSTALL 16mm² Cu 4C XLPE/PVC CABLE (REFER TO FINAL LV & SL CIRCUIT ON SHEET 9)
- EXISTING LV INDUSTRIAL DOUBLE LINK PILLAR
- NEW LV INDUSTRIAL DOUBLE LINK PILLAR
- EXISTING LV PILLAR
- PILLAR EARTHING, AS PER EDI100
- EXISTING POLE
- EXISTING POLE AND LANTERN
- EXISTING COLUMN AND LANTERN
- NEW COLUMN AND LANTERN
- PE L268337 C929885 — EXISTING LANTERN NO. (PE CELL CONTROLLED) EXISTING COLUMN NO.
- PE L288397 C968318 — NEW LANTERN NO.(PE CELL CONTROLLED) NEW COLUMN NO.

LIGHTING EQUIPMENT AND BILLING SCHEDULE

STATE	SYMBOL	SL NUMBER		SUPPORT NUMBER		LUMINAIRE					COLUMN/POLE					COLOUR	BRACKET/OUTREACH			UPCAST	CATEGORY	CHARGE TO
		NEW	EXISTING	NEW	EXISTING	DESCRIPTION	PART NO	RATE CODE	QTY	MOUNTING HEIGHT	DESCRIPTION	PART NO	FOOTING (BOLT/FOUNDATION)	QTY	RATE CODE	DESCRIPTION	DESCRIPTION	PART NO	RATE CODE			
NEW		XXXX	-	XXXX	-	24W STREETLED	JLC99G11L24	755	15	7.5	5.5m ENLARGED BASE COLUMN	IE/EB5.5	TYPE 2 RAG BOLT / TYPE 2 FOUNDATION	3	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5PCS/25	991	5°	PR5	PENRITH CITY COUNCIL (100%)
NEW	A	XXXX	-	XXXX	-	24W STREETLED	JLC99G11L24	755	9	9.0	7.0m ENLARGED BASE COLUMN	IE/EB 7.0	TYPE 2 RAG BOLT / TYPE 2 FOUNDATION	3	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5PCS/25	991	5°	PR3	PENRITH CITY COUNCIL (100%)
NEW	B	XXXX	-	XXXX	-	120W ROADLED MIDI AEROSCREEN	PM99G11L120	772	7	12.0	10.0m ENLARGED BASE COLUMN	IE/EB 10.0	TYPE 3 RAG BOLT / TYPE 3 FOUNDATION	4	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5PCS/25	991	5°	FIG 4.6 OF AS1158.3.1	PENRITH CITY COUNCIL (100%)

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Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P.

DATE 14/10/2025

CH'D O.B.

DESIGN J.R.P.

DO NOT SCALE

DIMENSIONS IN METRES

GDA 2020 / MGA 56 COORDINATE SYSTEM

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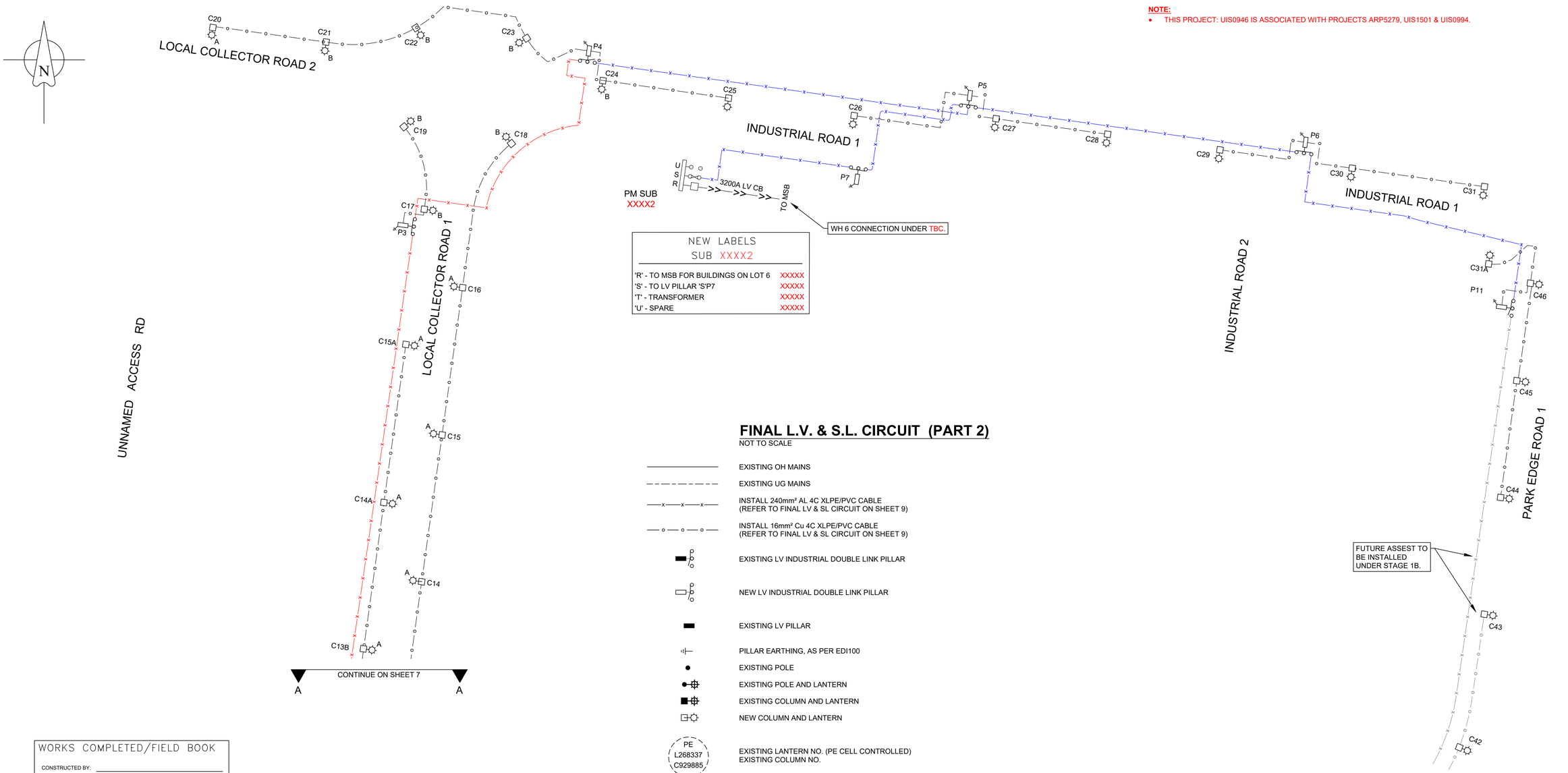
A1 XXXXX A

SHEET No 7 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:
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NEW LABELS SUB XXXX2	
'R' - TO MSB FOR BUILDINGS ON LOT 6	XXXXX
'S' - TO LV PILLAR 'S'P7	XXXXX
'T' - TRANSFORMER	XXXXX
'U' - SPARE	XXXXX

FINAL L.V. & S.L. CIRCUIT (PART 2)

NOT TO SCALE

- EXISTING OH MAINS
- EXISTING UG MAINS
- INSTALL 240mm² AL 4C XLPE/PVC CABLE (REFER TO FINAL LV & SL CIRCUIT ON SHEET 9)
- INSTALL 16mm² Cu 4C XLPE/PVC CABLE (REFER TO FINAL LV & SL CIRCUIT ON SHEET 9)
- EXISTING LV INDUSTRIAL DOUBLE LINK PILLAR
- NEW LV INDUSTRIAL DOUBLE LINK PILLAR
- EXISTING LV PILLAR
- PILLAR EARTHING, AS PER EDI100
- EXISTING POLE
- EXISTING POLE AND LANTERN
- EXISTING COLUMN AND LANTERN
- NEW COLUMN AND LANTERN
- PE L268337 C929885 — EXISTING LANTERN NO. (PE CELL CONTROLLED) EXISTING COLUMN NO.
- PE L288397 C968318 — NEW LANTERN NO.(PE CELL CONTROLLED) NEW COLUMN NO.

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

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OF: _____

CONTACT No.: _____

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Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS0946
XXXXX	DUCT, TRENCHING AND			AM PROJ. No.	
	EASEMENT PLAN	GENERAL		HV SWITCHING	
		OVERHEAD		EE DEPOT	PENRITH
		UNDERGROUND		EE REGION	NORTHERN
		SUBSTATIONS		HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED	DO NOT SCALE	
DRAWN	J.R.P.	DIMENSIONS IN METRES	
DATE	14/10/2025	GDA 2020 / MGA 56 COORDINATE SYSTEM	
CH'D	O.B.	DESIGN	J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

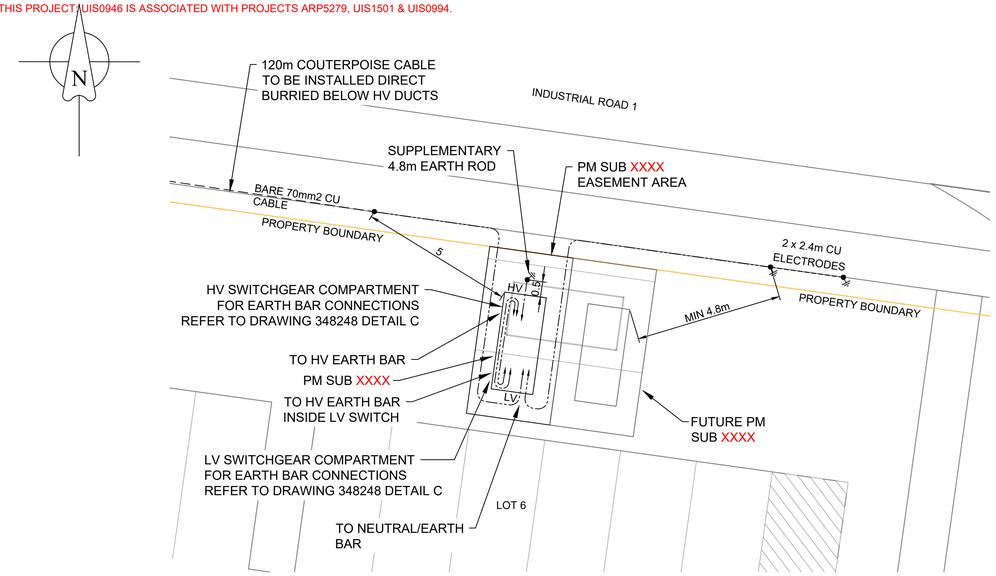
SHEET No 8 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT UIS0946 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501 & UIS0994.



EARTHING DETAILS FOR PM SUB 02				
SOIL RESISTIVELY (ohms.m)	LAYER 1	5.48	DEPTH (m)	5.19
	LAYER 2	13.45		INFINITY
DESIGNED EARTH RESISTANCE (ohms)				3.21
MEASURED EARTH RESISTANCE (ohms)				
NUMBER OF ELECTRODES EXCLUDING SUPPLEMENTARY EARTH ROD				2
LENGTH OF BARE ELECTRODE (m)				2.4
CONNECTION TYPE (CAD OR CRIMP)				CRIMP
LOCATION CATEGORY: F- FREQUENTED, R-REMOTE, S-SPECIAL				F
WHAT DESIGN TOOL USED?				3E
FAULT LEVEL (kA)				3.48
IS THIS 'FIRST ASSET OUT' FROM ZS				NO
ARE SCREENS OF INCOMING CABLES BONDED TO DISTRIBUTION SUBSTATION EARTH BAR				YES

LEGEND

CABLE CU. ANNEALED 19/2.14 660V PVC/PVC

CABLE CU. ANNEALED 19/2.14 BARE

EARTH ELECTRODE LOCATION & LENGTH
(LENGTH SHOWN IN METRES)

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

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SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

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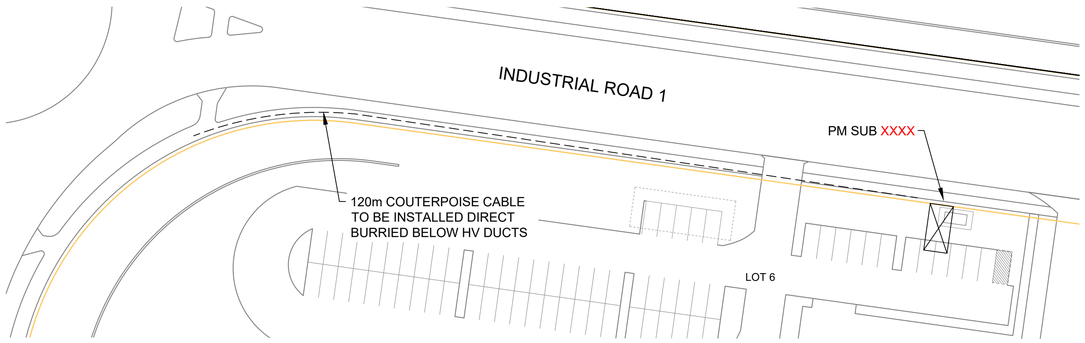
Print Name: _____

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PM SUB 02 COMMON EARTHING LAYOUTS

THIS EARTHING DIAGRAM IS A GUIDE ONLY AND SHOWS A MINIMUM REQUIREMENT. ADDITIONAL EARTHING MAY BE REQUIRED TO MEET THE REQUIRED MAXIMUM EARTH RESISTANCE MEASUREMENTS AS STATED IN ENDEAVOUR ENERGY'S EDI 100

EARTHING CONSTRUCTION TO EDI-0006
INFORMATION UPDATED AFTER COMMISSIONING ON _____



COUNTERPOISE ROUTE

0 5 10 15 20 25 METRES

ORIGINAL SCALE - 1:500

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A DRAFT No. 01

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EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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ORIGINAL SCALE	AS NOTED	DO NOT SCALE	
DRAWN	J.R.P.	DIMENSIONS IN METRES	
DATE	14/10/2025	GDA 2020 / MGA 56 COORDINATE SYSTEM	
CH'D	O.B.	DESIGN	J.R.P.

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ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

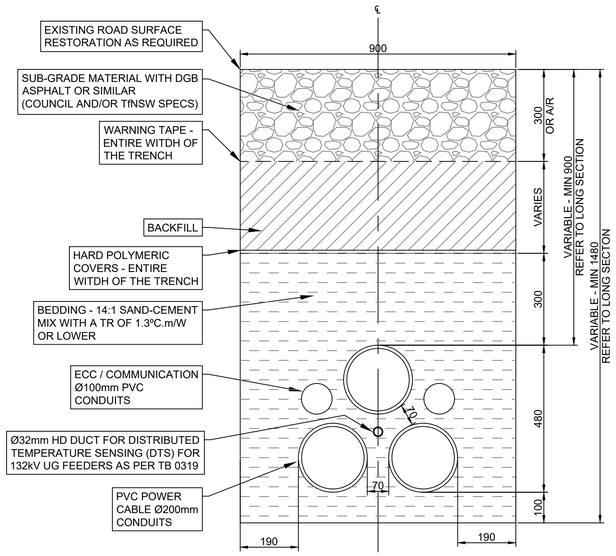
SHEET No 9 OF XYZ SHEETS

100517

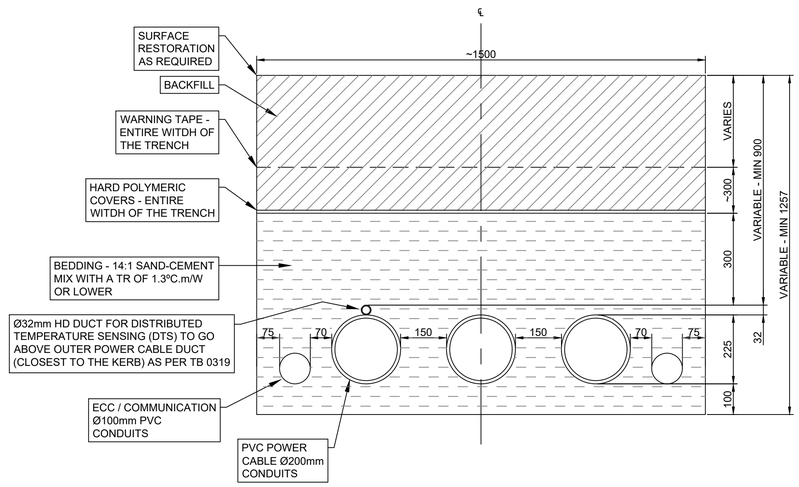
CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

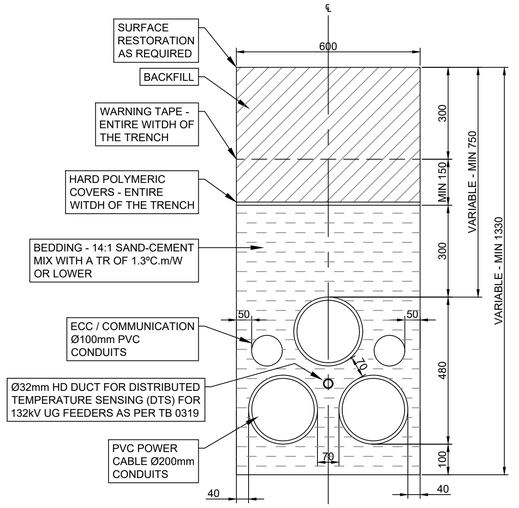
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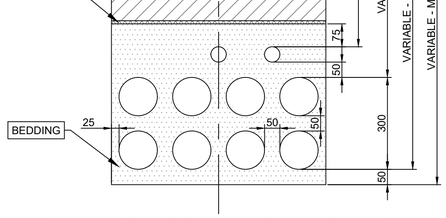
TYPICAL TRENCH TREFOIL NON-TfNSW ROAD - DUCTS Ø200mm



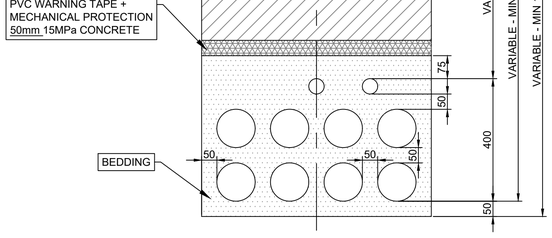
TRENCH FLAT NON-TfNSW ROAD - DUCTS Ø200mm



TYPICAL TRENCH TREFOIL NOT WITHIN ROAD - DUCTS Ø200mm



TYPICAL DISTRIBUTION TRENCH DUCTS IN EE VERGE ALLOCATION (All 125mm ducts as HV ducts)



TYPICAL DISTRIBUTION TRENCH DUCTS INSIDE EASEMENT (MCI0006 - FEB 2024) (All 125mm ducts as HV ducts)

NOTES:

1. ANY TRENCH WITH A DEPTH EQUAL TO OR GREATER THAN 1500mm WILL REQUIRE SHORING.
2. ENSURE A MINIMUM 3m SEPARATION IS MAINTAINED BETWEEN THE TRANSMISSION TRENCH CENTRELINES AT ALL TIMES. IF THIS CANNOT BE ACHIEVED, PLEASE CONTACT EE.
3. 14:1 SAND/CEMENT MIX SHALL HAVE A FULLY DRY THERMAL RESISTIVITY OF LESS THAN 1.30 C.m/W. THE SAME SHOULD APPLY TO 15 MPa OR ANY OTHER CONCRETE LOCAL BACKFILLS FOR DUCT BANKS.
4. TR TEST REPORTS OF 14:1 SAND CEMENT MIX, RIVER WASHED SAND AND ANY CONCRETE (FOR SERVICE CROSSINGS) AND BENDS ARE TO BE PROVIDED TO EE'S PROJECT MANAGER OR CONSTRUCTION COORDINATOR PRIOR TO BACKFILLING.
5. WHERE CONCRETE OR 14:1 SAND/CEMENT MIXES ARE UNABLE TO BE PROCURED WITH THE REQUIRED TR VALUES, DRY AND WET TSB MIXES SHALL BE PROCURED FROM THE APPROVED PRODUCTS LIST (APL). THE APL CAN BE FOUND ON THE ENDEAVOUR ENERGY ASP PORTAL.
6. DRY TSB IS A DIRECT REPLACEMENT FOR 14:1 SAND/CEMENT MIX AND WET TSB SHOULD BE USED AS A REPLACEMENT FOR CONCRETE WHEN ENCASING DUCT BENDS AND SECTIONS THAT HAVE SERVICE CROSSINGS.
7. ALL BENDS ARE TO BE CONCRETE ENCASED (15 MPa CONCRETE WITH TR LESS THAN 1.3°Cm/W WITH A MINIMUM OF 75mm ALL AROUND CONDUITS) WITH MIN. 6m RADIUS OR AS SPECIFIED ON SITE PLANS. CONCRETE ENCASEMENT AT BENDS IS NOT REQUIRED IF WET TSB ENCASEMENT IS SHOWN FOR THAT SECTION.
8. THE MAXIMUM TRANSMISSION DUCT FLEXURE IS 2° - 3° AND DEVIATIONS GREATER THAN THIS MUST USE MIN. 6M RADIUS CONCRETE ENCASED BENDS AS SPECIFIED ABOVE. BENDS IN THE VERTICAL PLANE SHALL BE AVOIDED AND ONLY CHANGE INVERTS OVER REASONABLE GRADES, NOT VIOLATING THE 2° - 3° DUCT FLEXURE.
9. SERVICE CROSSINGS WITHIN 300mm VERTICAL SEPARATION SHALL BE CONCRETE ENCASED. CONCRETE ENCASEMENT IS NOT REQUIRED IF WET TSB ENCASEMENT IS SHOWN IN THAT SECTION.
10. UTILISE APPROPRIATE DUCT SPACERS EVERY 3M (OR LESS FOR BENDS) WITHIN TRENCHES AS REQUIRED. REFER APPROVED PRODUCTS LIST (APL) FOR APPROVED SPACERS.
11. ENSURE CONDUITS ARE CAPPED TO PREVENT MOISTURE INGRESS, AND SEALED WITH PVC GLUE.
12. DRAW WIRE/ROPE SHOULD BE LEFT IN ALL CONDUITS
13. THE ACCURACY AND COMPLETENESS OF SERVICE INFORMATION CANNOT BE GUARANTEED AND THE LOCATION OF SERVICES SHOULD BE REGARDED AS INDICATIVE.
14. THE UTILITY SERVICES SHOWN ON THE ROUTE PLAN AND GROUND PROFILE HAS BEEN SOURCED BY **MIRVAC**. THE LOCATION AND DEPTH OF SERVICES IS BASED ON THE LATEST INFORMATION AVAILABLE, BUT THIS INFORMATION IS SUBJECT TO CHANGE.
15. ALL SERVICES ARE TO BE LOCATED, MARKED AND CONFIRMED WITH NON-DESTRUCTIVE DIGGING PRIOR TO EXCAVATING.
16. DUE TO PRESENCE OF EXISTING AND/OR PROPOSED STORMWATER PIPES AND KERB INLET PITS, THE OFFSET MAY NEED TO BE INCREASED TO PROVIDE APPROPRIATE HORIZONTAL SEPARATION TO PIPES AND PITS. RECOMMENDED HORIZONTAL SEPARATION TO STORMWATER PIPES AND EDGE OF PITS IS 300mm FROM EDGE OF TRENCH OR 225mm FROM EDGE OF DUCT BANK CONCRETE ENCASEMENT. PITS FOR PIPE SIZES GREATER THAN 450mm MAY REQUIRE GREATER TRENCH OFFSETS. PLEASE LIAISE WITH ROAD DESIGNERS OR ACQUIRE APPROPRIATE INFORMATION FROM COUNCILS OR TfNSW AT DESIGN STAGE.
17. WAES DRAWINGS AND SURVEY DATA SHALL BE SUBMITTED IN ACCORDANCE WITH SAD0004.

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	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED
DRAWN	J.R.P.
DATE	14/10/2025
CH'D	
DO NOT SCALE	
DIMENSIONS IN METRES	
GDA 2020 / MGA 56	
COORDINATE SYSTEM	
DESIGN	J.R.P.

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ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

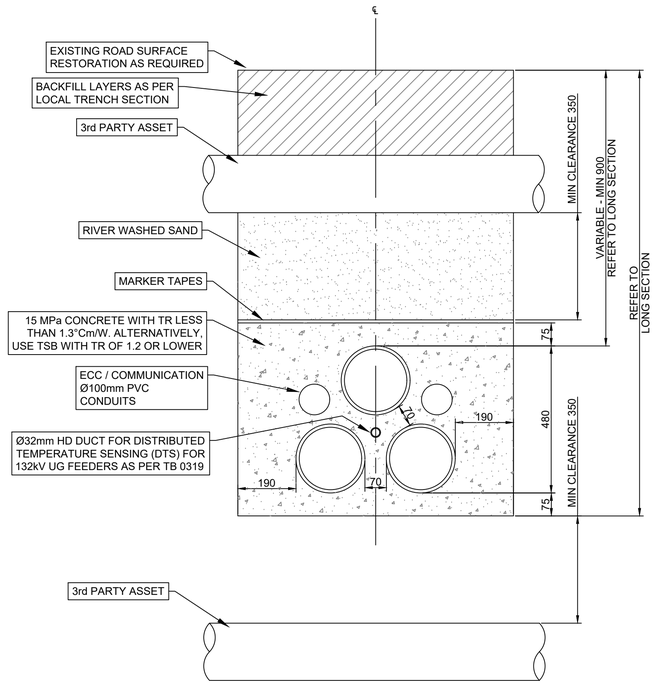
SHEET No 10 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

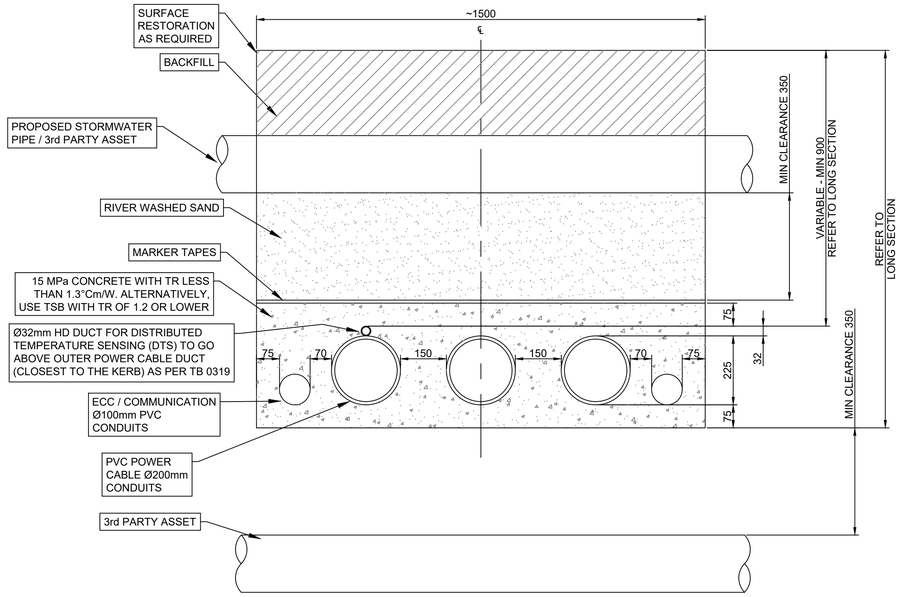
NOTE:

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TRENCH TREFOIL ABOVE 3rd PARTY ASSETS

NOTE: SOME SERVICES MAY REQUIRE GREATER VERTICAL SEPARATION. REFER TO LONG SECTIONS FOR DETAILS



TRENCH TREFOIL ABOVE 3rd PARTY ASSETS

NOTE: SOME SERVICES MAY REQUIRE GREATER VERTICAL SEPARATION. REFER TO LONG SECTIONS FOR DETAILS

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Date Approved:_____

Examiner's Signature:

_____

Print Name:_____

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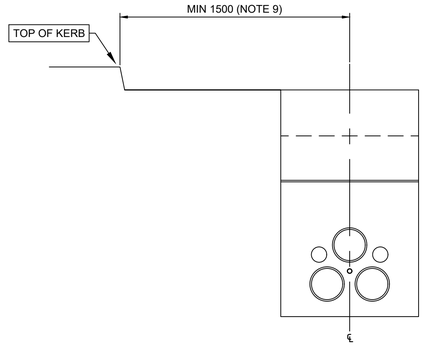
OF: _____

CONTACT No.: _____

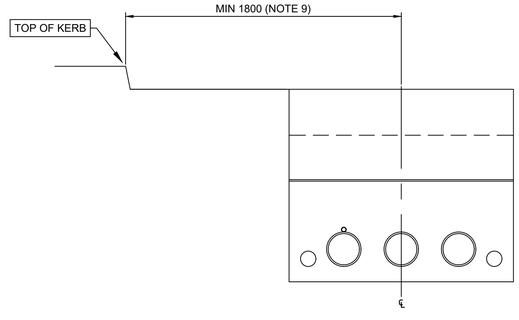
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TYPICAL TRENCH TREFOIL ARRANGEMENT WITH KERB AND GUTTER



TYPICAL TRENCH FLAT ARRANGEMENT WITH KERB AND GUTTER

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				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P.

DATE 14/10/2025

CH'D

DO NOT SCALE

DIMENSIONS IN METRES

GDA 2020 / MGA 56 COORDINATE SYSTEM

DESIGN J.R.P.

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A1 | XXXXX | A

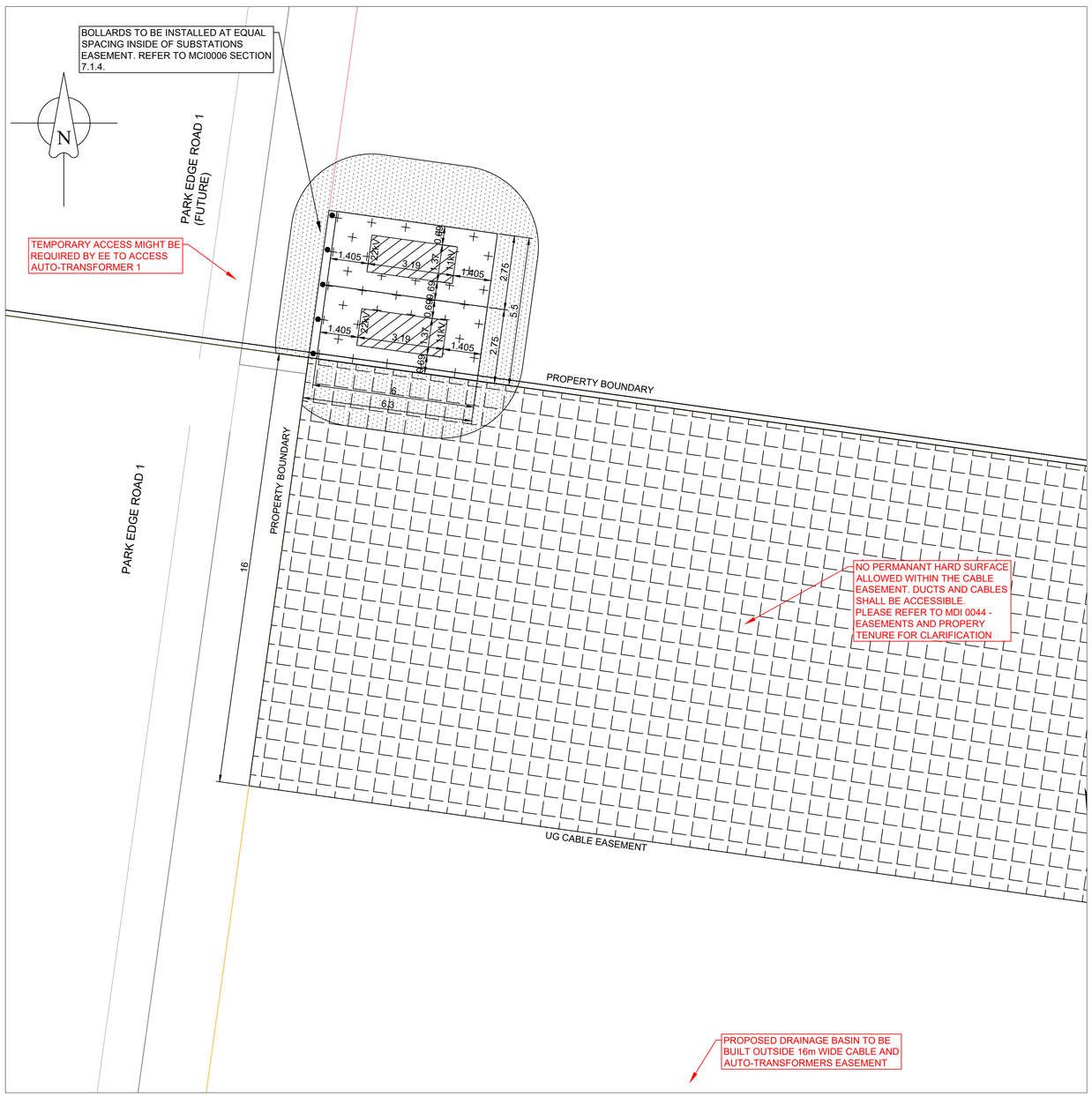
SHEET No 11 OF XYZ SHEETS

100517

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AUTO-TRANSFORMER NO. 1 & NO. 2 COMBINED EASEMENT AND RESTRICTION DIAGRAM

0 1 2 3 4 5 METRES

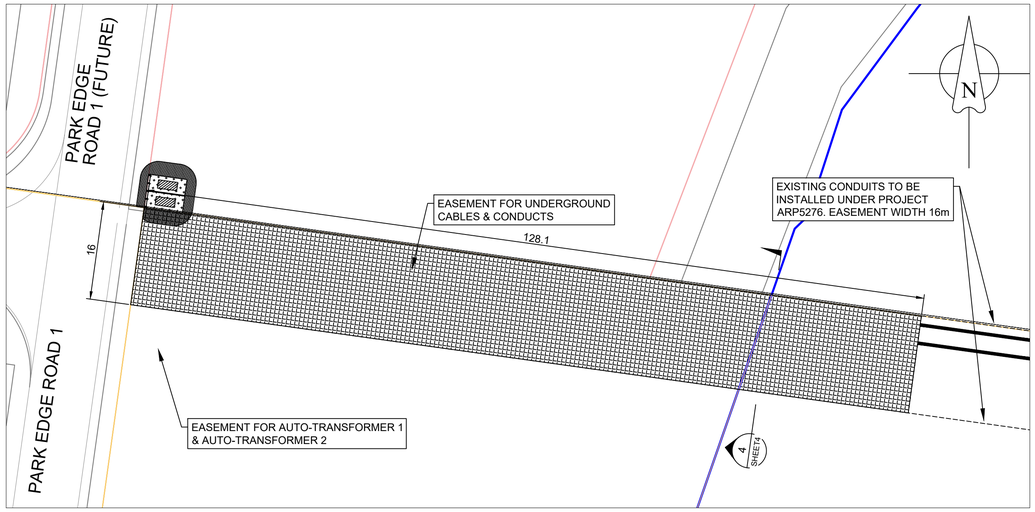
ORIGINAL SCALE - 1:100

COMBINED EASEMENT FOR AUTO-TRANSFORMERS 6.1m x 6.6m
(NO STRUCTURES OR SERVICES ALLOWED)

AUTO-TRANSFORMER FOOTING (3.19m x 1.37m)

3m FIRE RESTRICTION ZONE

16m WIDE CABLE EASEMENT
(NO STRUCTURES OR SERVICES ALLOWED)



UNDERGROUND CABLE EASEMENT DIAGRAM

0 5 10 15 20 25 METRES

ORIGINAL SCALE - 1:500

COMBINED EASEMENT FOR AUTO-TRANSFORMERS 6.1m x 6.6m
(NO STRUCTURES OR SERVICES ALLOWED)

AUTO-TRANSFORMER FOOTING (3.19m x 1.37m)

3m FIRE RESTRICTION ZONE

16m WIDE CABLE EASEMENT
(NO STRUCTURES OR SERVICES ALLOWED)

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				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P.

DATE 14/10/2025

CH'D

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM

DESIGN J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1A)
ENDEAVOUR ENERGY CAP NO: UIS0946
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 XXXXX A

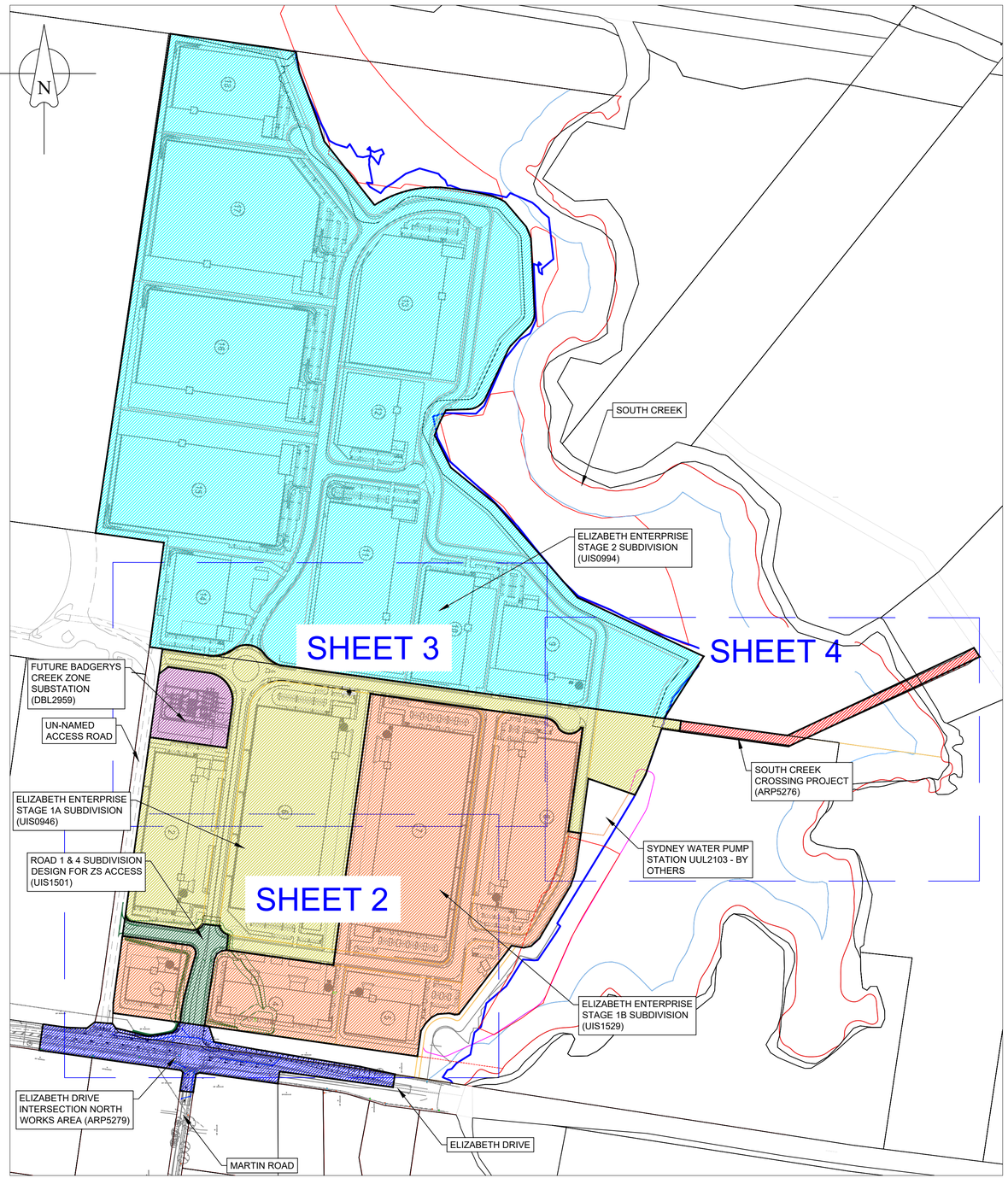
SHEET No 12 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1529 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501,UIS0946 & UIS0994.



ELIZABETH ENTERPRISE PRECINCT LOCALITY MAP

0 40 80 120 160 200 METRES

ORIGINAL SCALE - 1:4000

Cadastre: © Land and Property Information 2016

THE CERTIFICATION OF THIS DRAWING IS SUPPORTED BY THE FOLLOWING DOCUMENTS

KEY DOCUMENTS TABLE	
DOCUMENT NAME	NOTIFICATION
SUMMARY ENVIRONMENTAL REPORT (SER) - FAT0038 PART OF EMS0003	XX/XX/2023
NOTICE OF ACCEPTANCE OF SITE - SPECIFIC CONDITIONS - FPJ4689	N/A
EQUIPMENT TO BE RETURNED TO ENDEAVOUR ENERGY - FPJ4252 & FPJ4253	N/A
TELECOMMUNICATION ASSET AGREEMENT - FPJ4184	N/A
DESIGNER'S SAFETY REPORT	XX/XX/2023
ABORIGINAL CULTURAL HERITAGE ASSESSMENT REPORT	XX/XX/2023

DUCT DECLARATION

I _____

OF _____

CONTACT NUMBER _____

HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING & ENDEAVOR ENERGY STANDARDS MDI0028 & MCI0006. THE DUCT DEPTHS AND LOCATIONS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING AS PER ENDEAVOR ENERGY STANDARD SAD0004.

THE INSTALLATION OF THE DUCTS WAS

COMMENCED ON _____

& COMPLETED ON _____

SIGNATURE _____

LAND SURVEYOR REGISTERED UNDER SURVEYING AND SPATIAL INFORMATION ACT 2002

DUCT INSTALLATION ACCEPTANCE BY THE ASP

I have accepted the conduits as marked up on this drawing in compliance to SAD0004 and confirm that:
All the conduits installed by the ASP are:

- in accordance with MDI0028 & MCI0006
- are correct as per the WAE marked up design drawing provided

All conduit groups installed by the developer where accessed by the ASP during construction have been checked by me and I verify that:

- string lines are installed within all the conduits
- continuity of all conduits was confirmed
- all ends of conduits have been sealed as per standards
- exposed ducts at open ends appear to be installed in accordance with MDI0028 & MCI0006

THE INSTALLATION OF DUCT WAS VERIFIED BY ME ON
NAME:
SIGNATURE:
DATE:
ASP COMPANY:
LEVEL 1 ASP COMPANY COMPETENT PERSON

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

AUTHORISATION OF ESTIMATE VALUE OF ENDEAVOUR ENERGY FUNDED ASSETS

Signed: _____

Print Name: _____

Service Number: _____

Funding Amount: $ _____

Date: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

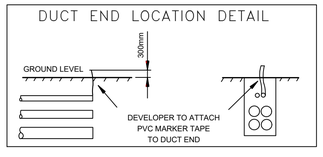
Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

DUCT END LOCATION DETAIL



THIS DRAWING WILL SUPPLY 2 LOTS

C.A.P. No	FILE No	LOT Nos	No.of LOTS	DEVELOPER	DEVELOPERS REP	PHONE No.
UIS1529		-	-	MIRVAC INDUSTRIAL DEVELOPMENT	MEIGHAN WOODS (MIRVAC)	02 9080 8836
TBC		LOT 5	1			

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ENDEAVOUR ENERGY'S NETWORK STANDARDS AND CONNECTION POLICY.
2. ACCREDITED DESIGNER IS TO BE CONTACTED REGARDING ISSUES RAISED WITH THIS DESIGN.
3. ENDEAVOUR ENERGY CONTACT PHONE: 131 081
4. DESIGN CERTIFICATION SHALL LAPSE WHERE:-
   (I) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN (6) SIX MONTHS OF THIS CERTIFICATION.
   (II) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN (6) MONTHS.
   WHERE DESIGN CERTIFICATION HAS LAPSED THE DESIGN MUST BE RESUBMITTED BY THE ACCREDITED SERVICE PROVIDER FOR RE-CERTIFICATION.
5. DEVELOPER SHALL PEG ALL PROPERTY BOUNDARIES INCLUDING ANY EASEMENTS AND ESTABLISH FINAL LEVELS PRIOR TO COMMENCEMENT OF WORKS.
6. ATTENTION
   TELSTRA & OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. TELSTRA & OPTUS UNDERGROUND ASSETS LOCATED IN THE AREA. CONTACTS
   TELSTRA NETWORK INTEGRITY HELP DESK: 1800 653 935
   OPTUS: 8082 0161
   NBN: RELOCATIONWORKS@NBNCO.COM.AU
7. ATTENTION
   SYDNEY WATER TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION. CONTACTS
   SYDNEY WATER :(02) 8849 3800
8. ATTENTION
   PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED PRIOR TO COMMENCEMENT OF WORK.
9. ATTENTION
   SERVICE PROVIDER TO NOTIFY ENDEAVOUR ENERGY'S ASSETS DATA CUSTOMER DEPT DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131081.
10. WARNING
    LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG, TEL. 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.
11. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING. QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND/ OR CONSTRUCTION.
12. THE PREPARATION OF THIS DESIGN HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES. NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGES TO EXISTING SERVICES AS A RESULT OF THIS DESIGN.
13. OPERATIONAL LIMITS.
    UNLESS APPROVED OTHERWISE, INTERRUPTION TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
    -MOBILE GENERATORS AND SUBSTATIONS
    - LIVE LINE WORK
    - DESIGN ALTERNATIVES, LOW VOLTAGE PARALLELS
    - WORK PRACTICES/STANDARDS
    THE COST IS TO BE FUNDED BY THE CUSTOMER
14. ENVIRONMENT MANAGEMENT PLAN EMP ENDEAVOUR ENERGY COMPANY DOCUMENT EMS0001 IS PART OF THIS DESIGN.
15. HAVE ALL THE EXISTING ASSETS BEEN FIELD CHECKED AND ARE ACCURATE AT THE TIME OF DESIGN? YES
16. THE EASEMENT FOR THE PADMOUNT SUBSTATION SITES (5.5m x 2.75m) IS TO BE CREATED IN FAVOUR OF ENDEAVOUR ENERGY WITHIN PROPOSED LOT 5. THIS EASEMENT IS A MINIMUM SIZE ONLY, MUST BE LEVEL, AND MUST BE FREE OF ALL OTHER SERVICES.
17. A RESTRICTION ON USE OF LAND IN RELATION TO THE FIRE RATING OF THE BUILDING MEASURED 3m FROM THE SUBSTATION PLINTH IS TO BE CREATED IN FAVOUR OF ENDEAVOUR ENERGY WITHIN PROPOSED LOTS 5.
18. FIRE HYDRANTS AND BOOSTER VALVES ARE NOT TO BE LOCATED WITHIN 10m MEASURED FROM THE SUBSTATION/ SWITCHING STATION PLINTH.
19. THE SUBSTATION MUST BE LOCATED MORE THAN 5m FROM A TELECOMMUNICATIONS PIT.
20. FINAL LOCATION OF EASEMENT FOR SUBSTATION SITE TO BE SURVEYED, AND PEGGED BY PROPONENT (OR THEIR REPRESENTATIVE) PRIOR TO CONSTRUCTION.
21. EARTHING OF THE SUBSTATIONS AND SWITHCING STATION TO BE CARRIED OUT IN ACCORDANCE WITH ENDEAVOUR ENERGY EDI 100. COMMON EARTHING TO BE ACHIEVED. THE EARTHING DIAGRAM IS A GUIDE ONLY AND SHOWS A MINIMUM REQUIREMENT. ADDITIONAL EARTHING MAY BE REQUIRED TO MEET THE REQUIRED MAXIMUM EARTH RESISTANCE MEASUREMENTS AS STATED IN ENDEAVOUR ENERGY'S EDI 100.
22. CENTRELINE OF ALL SL COLUMNS ARE TO BE INSTALLED AT 350mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
23. CENTRELINE OF ALL LV PILLARS ARE TO BE INSTALLED AT 300mm FROM THE FRONT PROPERTY BOUNDARIES, UNLESS SHOWN OTHERWISE.
24. STREETLIGHT COLUMNS AND LV PILLAR MUST BE INSTALLED AT LEAST 300mm FROM EXISTING AND PROPOSED DRIVEWAYS AS PER EE STANDARDS.
25. A MINIMUM OF 500mm SEPARATION IS REQUIRED BETWEEN STREET LIGHT COLUMNS AND ADJACENT PILLARS.
26. ALL STREET LIGHTING CABLE TO BE INSTALLED IN 50mm DUCTS.
27. ENSURE END OF SERVICE DUCTS ARE NOT PLACED UNDER PROPOSED DRIVEWAYS. REFER DEVELOPER REPRESENTATIVE FOR COORDINATION PURPOSE.
28. ELECTRICAL CONDUCTS AND CABLES MUST BE MECANICALLY PROTECTED AS PER MCI0006 SECTION 4.4.2 WHEN CROSSING WITHIN 300mm TO ANOTHER UTILITIES SERVICE.
29. UNRESTRICTED 24 HOUR / 7 DAY ACCESS MUST BE PROVIDED TO ENDEAVOUR ENERGY STAFF & VEHICLES TO NEW SUBSTATION/ELECTRICAL EQUIPMENT AS PER MCI 0006 ACCESS 7.1.2 REQUIREMENTS.

PIONEER COST SHARE REIMBURSEMENT SCHEME - Expiry Date dd/mmm/yyyy Pre-Calculated Reimbursement for Customer Load Over 50kVA

Asset	Asset Cost Estimate ($)	Unit Quantity (km)	Net Asset Capacity (kVA)	Original Customer Utilisation (kVA)	Maximum Reimbursement Amount ($)
HV Mains	N/A	N/A	N/A	N/A	N/A
LV Mains	N/A	N/A	N/A	N/A	N/A
Substation	N/A	N/A	N/A	N/A	N/A

FUNDING ARRANGEMENTS FOR SCOPE OF WORKS

ASP LEVEL 1 ELECTRICAL WORKS

ENDEAVOUR ENERGY SUPPLIED MATERIALS

NIL

ENDEAVOUR ENERGY FUNDED & CONSTRUCTED

WORKS REQUIRED PRIOR TO COMPLETION OF CUSTOMER CONTESTABLE PROJECT	WORKS REQUIRED IN ASSOCIATION OF CUSTOMER CONTESTABLE PROJECT
NIL	NIL

ENDEAVOUR ENERGY FUNDED & ASP L1 CONSTRUCTED - REIMBURSMENT (EXC GST)

ACTIVITY	QUANTITY	REIMBURSEMENT
VALUE OF 22kV 500kVA TRANSFORMER	1	$ 11,154.00
EE REIMBURSEMENT CHARGES FOR HV 125mm DUCTS @ $27/m	1308m	$ 35,316.00
TOTAL EE REIMBURSEMENT (EXCLUDING PM & DESIGN)	-	$ 28,621.00
TOTAL EE CAPITAL CONTRIBUTION	-	$ 31,397.00

CUSTOMER FUNDED NON-CONTESTABLE WORKS

– MONOPOLY FEES
INSPECTION AND ACCESS AUTHORITY
- SYSTEM SWITCHING
- PROVISION OF ACCESS AUTHORITY (AS PER FEE SENT BY EE'S CWA'S)

CUSTOMER FUNDED CONTESTABLE WORKS

ALL OTHER WORKS AND MATERIALS INCLUDING BUT NOT LIMITED TO:
- SUBSTATION INSTALLATION
- EARTHING
- TRENCHING
- DUCT INSTALLATION
- CABLE LAYING AND/OR INSTALLATIONS
- TERMINATIONS
- PILLAR & COLUMN INSTALLATION
- STREET LIGHT INSTALLATION
- TRAFFIC MANAGEMENT
- OUTAGE OF HV

CUSTOMER

CUSTOMER FUNDED

INCLUDES BUT IS NOT LIMITED TO:
- PEGGING OF EASEMENTS, PROPERTY BOUNDARIES & INFRASTRUCTURE LOCATIONS
- PROVIDING SITE ACCESS
- OWN SERVICE & SERVICE CONNECTION
- CONFIRM FINISHED GROUND LEVELS
- REGISTERING OF EASEMENTS

EXISTING DUCT USAGE CHARGES (EXC GST)

287m @ $23/m = $ 6,601.00

CO-ORDINATION SUPPLY REQUIRED DATE

01 MAY 2020

ASSET TO BE RETURNED TO NEAREST ENDEAVOUR ENERGY DEPOT BY LV 1 ASP

NIL

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS | ORIGINAL ISSUE | DRAFT No. 01 | A

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1529
XXXXX	DUCT, TRENCHING AND EASEMENT PLAN	GENERAL		AM PROJ. No.	
		OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P.

DATE 14/10/2025

CH'D O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM

DESIGN J.R.P.

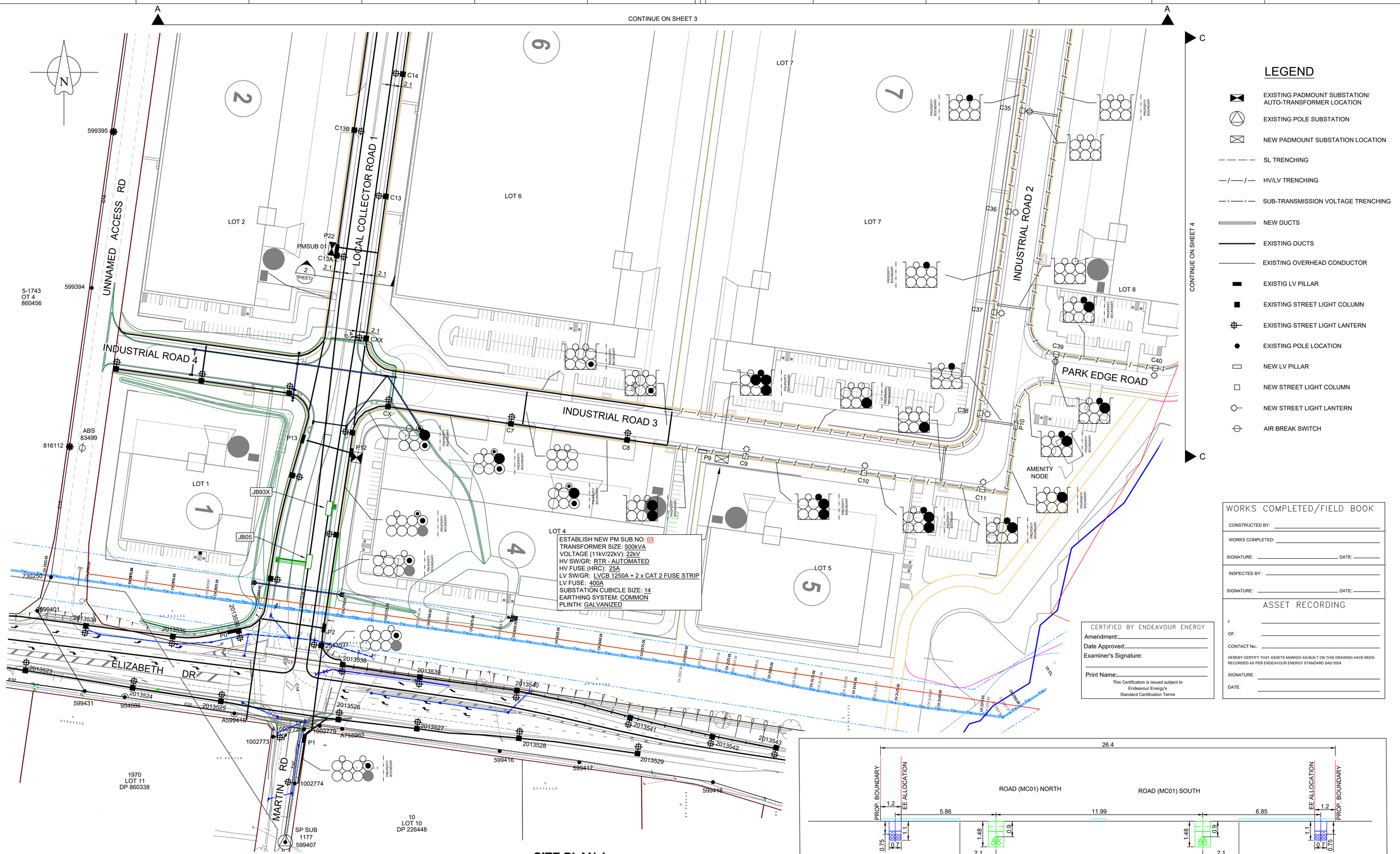
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ENDEAVOUR ENERGY CAP NO: UIS1529
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

SHEET No 1 OF XYZ SHEETS

100517



LEGEND

- EXISTING PADMOUNT SUBSTATION/ AUTO-TRANSFORMER LOCATION
- EXISTING POLE SUBSTATION
- NEW PADMOUNT SUBSTATION LOCATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- AIR BREAK SWITCH

WORKS COMPLETED/FIELD BOOK	
CONSTRUCTED BY:	
WORKS COMPLETED:	
SIGNATURE:	DATE:
INSPECTED BY:	
SIGNATURE:	DATE:

ASSET RECORDING

I:
OF:
CONTACT No.:

HERERY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE:
DATE:

CERTIFIED BY ENDEAVOUR ENERGY

Amendment:
Date Approved:
Examiner's Signature:
Print Name:

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

SITE PLAN 1

0 10 20 30 40 50 METRES

ORIGINAL SCALE - 1:1000

TRENCH SECTION VIEW '2'

SCALE 1:10

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

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AMENDMENTS: ORIGINAL ISSUE — A — DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
35/5-7 Inglewood Place
Norwest NSW 2153
PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No:5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1529
XXXXX	DUCT, TRENCHING AND	GENERAL		AM PROJ. No.	
	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN	J.R.P.
DATE	14/10/2025
CH'D	O.B.
DESIGN	J.R.P.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1B)
ENDEAVOUR ENERGY CAP NO: UIS1529
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

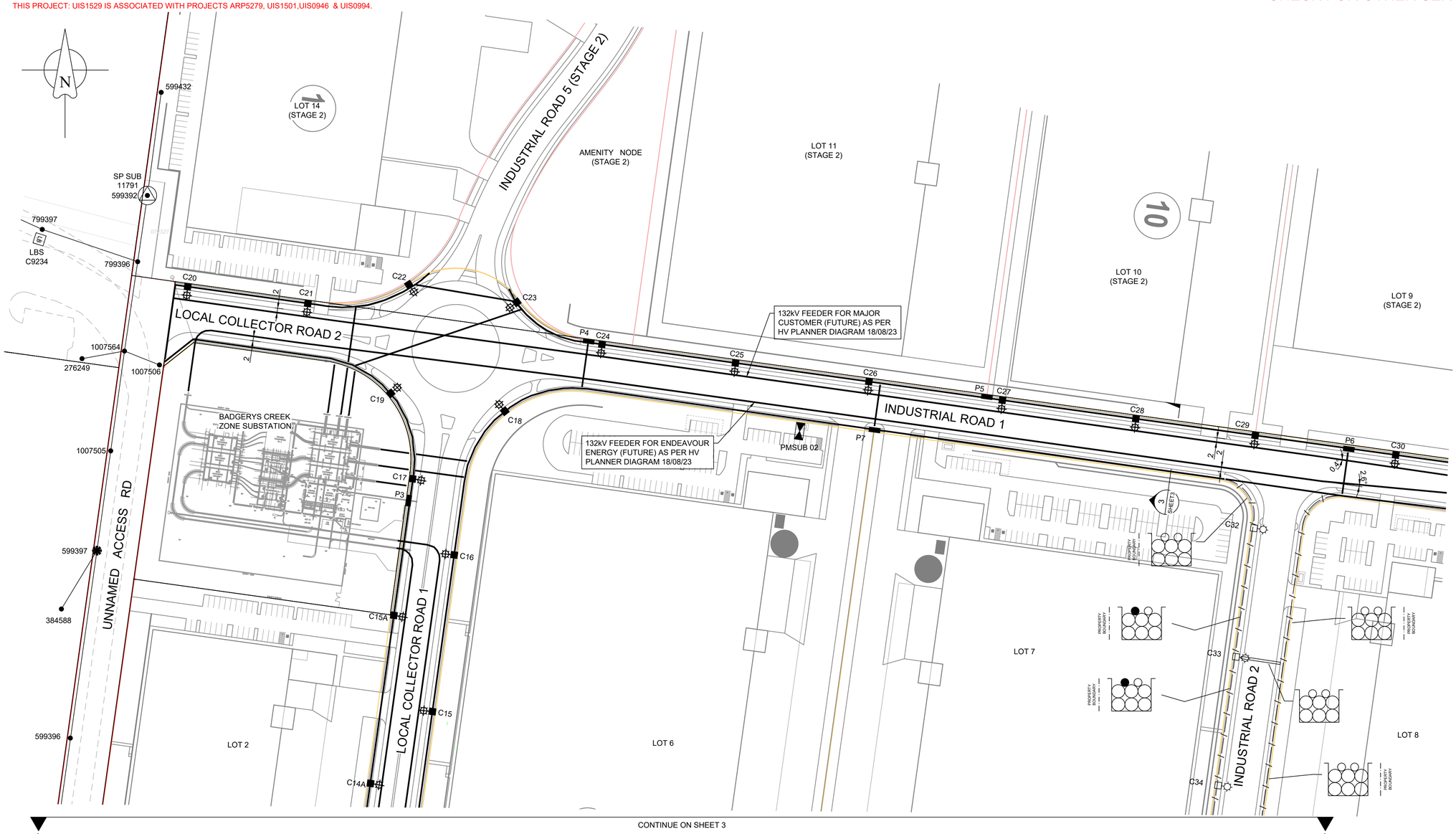
SHEET No 2 OF XYZ SHEETS

100517

NOTE:

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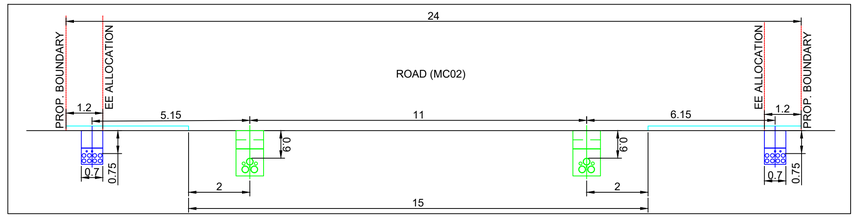
LEGEND

- EXISTING PADMOUNT SUBSTATION/ AUTO-TRANSFORMER LOCATION
- EXISTING POLE SUBSTATION
- NEW PADMOUNT SUBSTATION LOCATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- AIR BREAK SWITCH

SITE PLAN 2

0 10 20 30 40 50 METRES

ORIGINAL SCALE - 1:1000



TRENCH SECTION VIEW '3'

SCALE 1:10

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

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AMENDMENTS: ORIGINAL ISSUE — A — DRAFT No. 01

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35/5-7 Inglewood Place
Norwest NSW 2153
PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1529
XXXXX	DUCT, TRENCHING AND EASEMENT PLAN	GENERAL		AM PROJ. No.	
		OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P. | DATE 14/10/2025 | CH'D O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56 COORDINATE SYSTEM
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Endeavour Energy

A1 | XXXXX | A

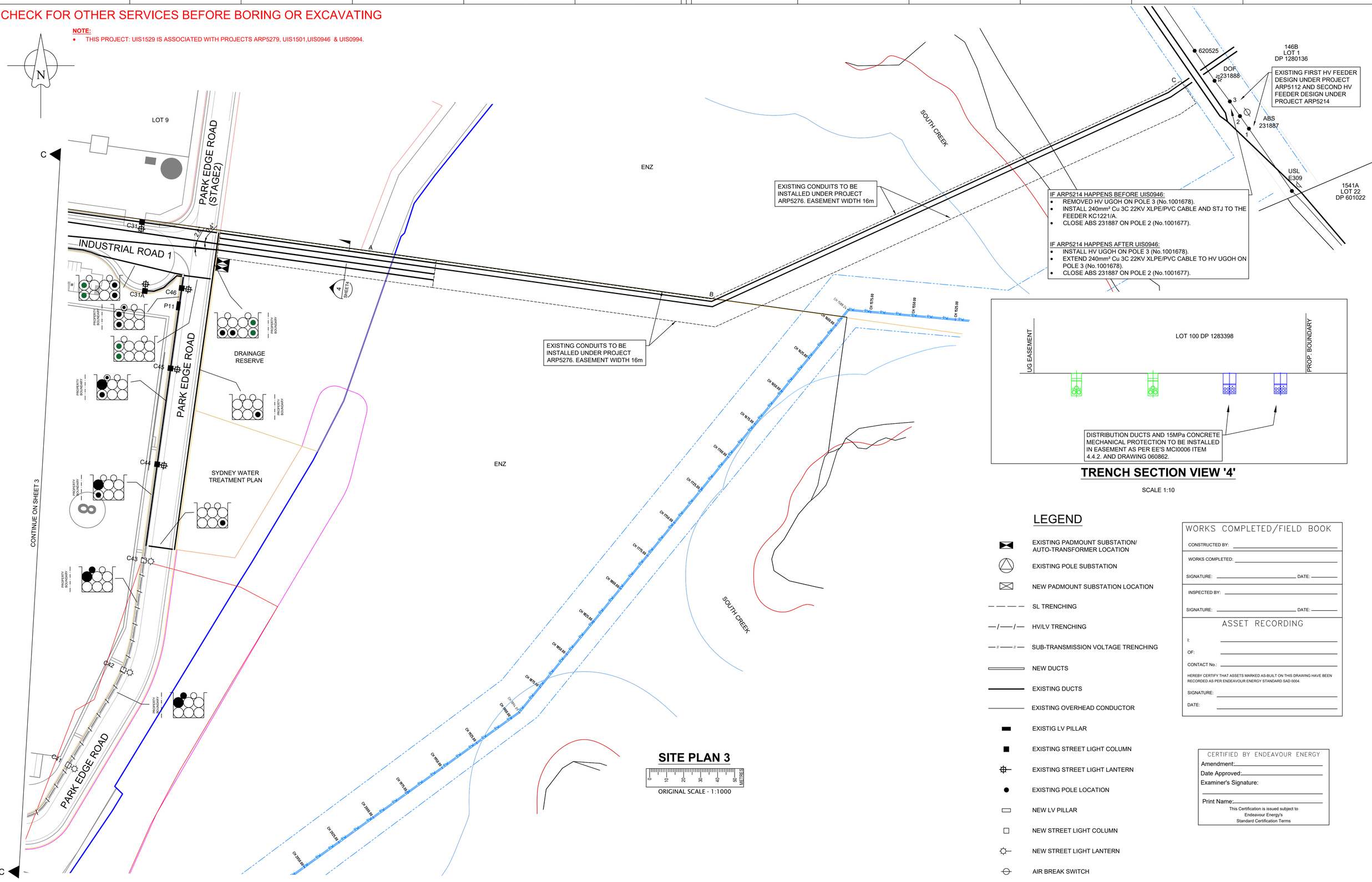
SHEET No 3 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

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TRENCH SECTION VIEW '4'

SCALE 1:10

SITE PLAN 3

ORIGINAL SCALE - 1:1000

LEGEND

- EXISTING PADMOUNT SUBSTATION/ AUTO-TRANSFORMER LOCATION
- EXISTING POLE SUBSTATION
- NEW PADMOUNT SUBSTATION LOCATION
- SL TRENCHING
- HV/LV TRENCHING
- SUB-TRANSMISSION VOLTAGE TRENCHING
- NEW DUCTS
- EXISTING DUCTS
- EXISTING OVERHEAD CONDUCTOR
- EXISTIG LV PILLAR
- EXISTING STREET LIGHT COLUMN
- EXISTING STREET LIGHT LANTERN
- EXISTING POLE LOCATION
- NEW LV PILLAR
- NEW STREET LIGHT COLUMN
- NEW STREET LIGHT LANTERN
- AIR BREAK SWITCH

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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AMENDMENTS: ORIGINAL ISSUE — DRAFT No. 01 — A

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Level 3 ASP #2508

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Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No5.20

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		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED — DRAWN J.R.P. — DATE 14/10/2025 — CH'D O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56
COORDINATE SYSTEM
DESIGN J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1B)
ENDEAVOUR ENERGY CAP NO: UIS1529
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

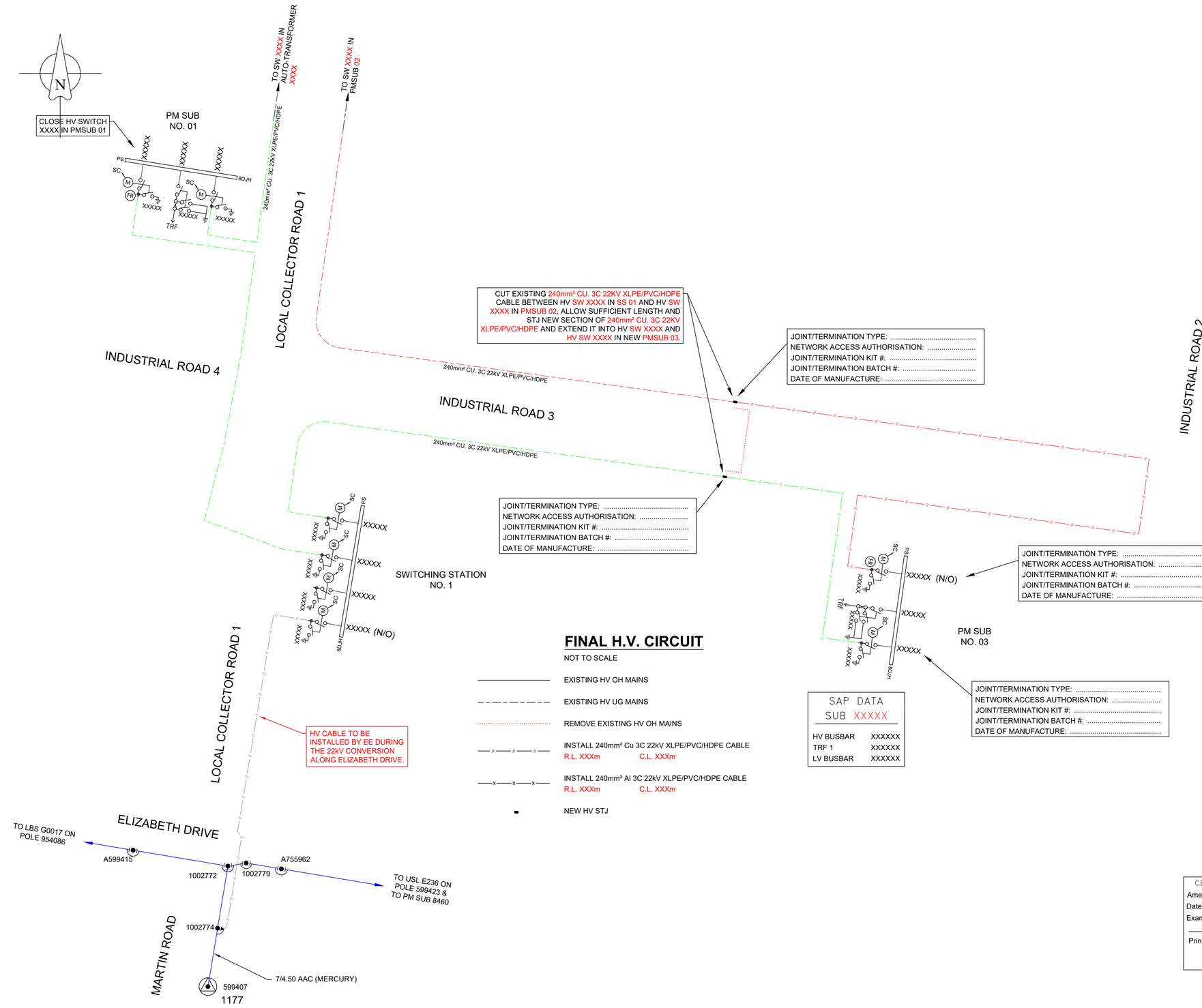
SHEET No 4 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1529 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501, UIS0946 & UIS0994.



FINAL H.V. CIRCUIT

NOT TO SCALE

- EXISTING HV OH MAINS
- EXISTING HV UG MAINS
- REMOVE EXISTING HV OH MAINS
- INSTALL 240mm² Cu 3C 22kV XLPE/PVC/HDPE CABLE — R.L. XXXm C.L. XXXm
- INSTALL 240mm² Al 3C 22kV XLPE/PVC/HDPE CABLE — R.L. XXXm C.L. XXXm
- NEW HV STJ

SAP DATA SUB XXXXX	
HV BUSBAR	XXXXXX
TRF 1	XXXXXX
LV BUSBAR	XXXXXX

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

Cadastre: © Land and Property Information 2016

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: A — ORIGINAL ISSUE — DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508
35/5-7 Inglewood Place
Norwest NSW 2153
PO Box 8114
Norwest NSW 2153
P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au
Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No:5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1529
XXXXX	DUCT, TRENCHING AND	GENERAL		AM PROJ. No.	
	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE	AS NOTED	DO NOT SCALE	
DRAWN	J.R.P.	DIMENSIONS IN METRES	
DATE	14/10/2025	GDA 2020 / MGA 56 COORDINATE SYSTEM	
CH'D	O.B.	DESIGN	J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
1669-1773 ELIZABETH DRIVE
BADGERYS CREEK (ELIZABETH ENTERPRISE PRECINCT, STAGE 1B)
ENDEAVOUR ENERGY CAP NO: UIS1529
LAND SUBDIVISION
ELECTRICAL RETICULATION

Endeavour Energy

A1 | XXXXX | A

SHEET No 5 OF XYZ SHEETS

100517

CHECK FOR OTHER SERVICES BEFORE BORING OR EXCAVATING

NOTE:

- THIS PROJECT: UIS1529 IS ASSOCIATED WITH PROJECTS ARP5279, UIS1501,UIS0946 & UIS0994.

N

WORKS COMPLETED/FIELD BOOK

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNATURE: _____ DATE: _____

INSPECTED BY: _____

SIGNATURE: _____ DATE: _____

ASSET RECORDING

I: _____

OF: _____

CONTACT No.: _____

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE: _____

DATE: _____

CERTIFIED BY ENDEAVOUR ENERGY

Amendment: _____

Date Approved: _____

Examiner's Signature: _____

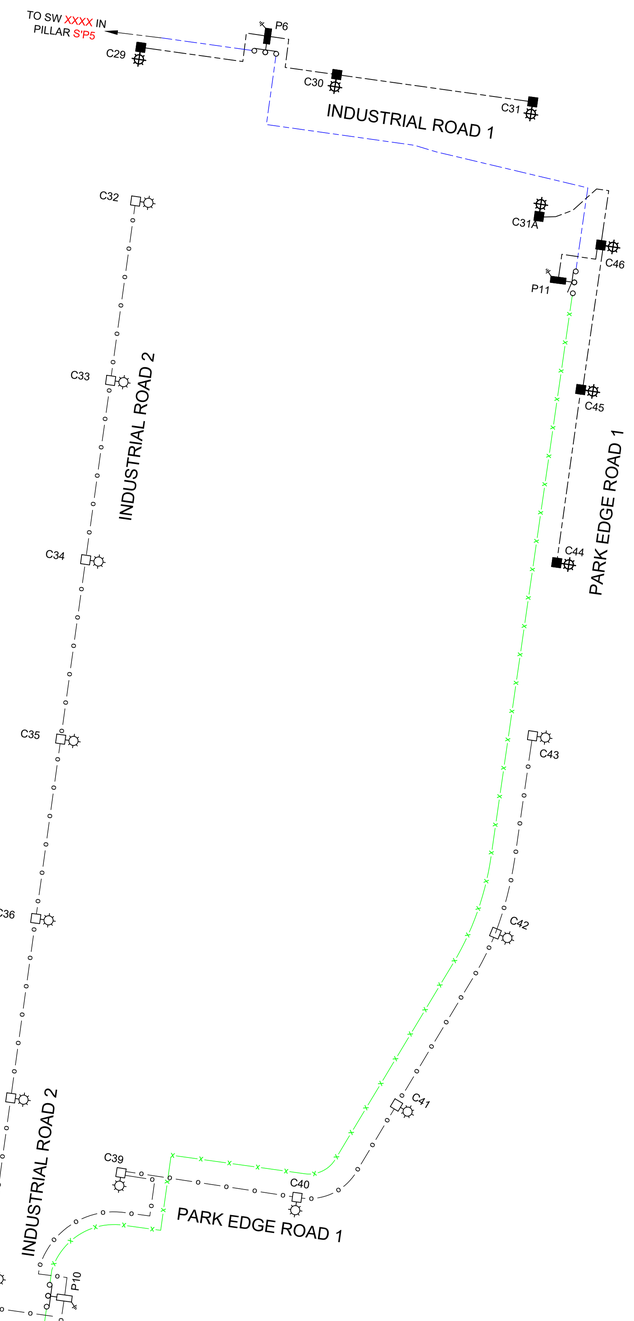
Print Name: _____

This Certification is issued subject to Endeavour Energy's Standard Certification Terms

FINAL L.V. & S.L. CIRCUIT

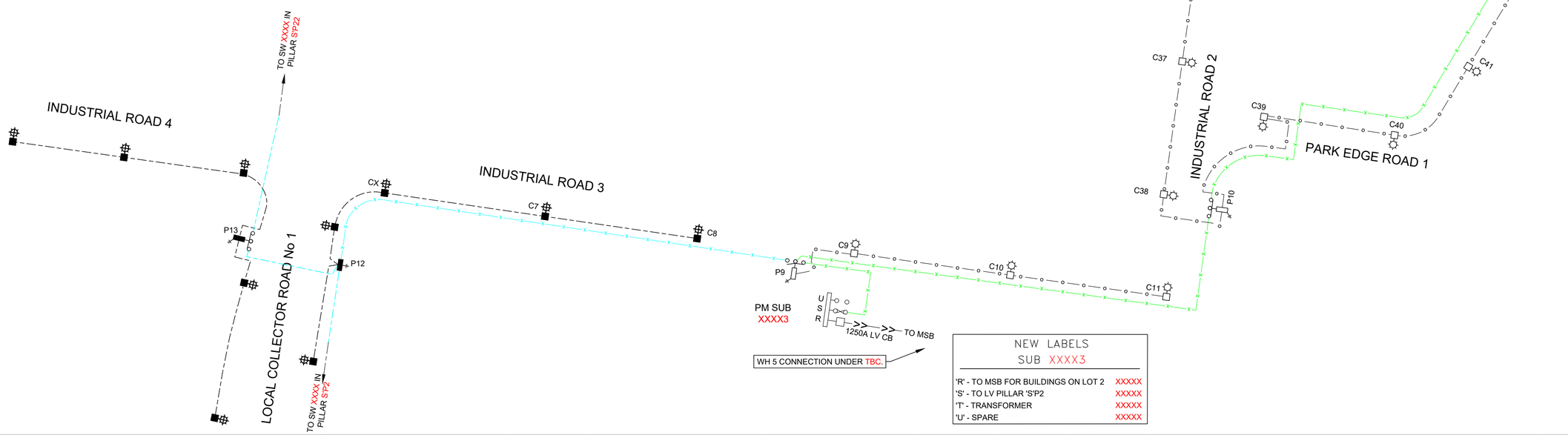
NOT TO SCALE

- EXISTING OH MAINS
- EXISTING UG MAINS
- INSTALL 240mm² AL 4C XLPE/PVC CABLE (REFER TO FINAL LV & SL CIRCUIT ON SHEET 9)
- INSTALL 16mm² Cu 4C XLPE/PVC CABLE (REFER TO FINAL LV & SL CIRCUIT ON SHEET 9)
- EXISTING LV INDUSTRIAL DOUBLE LINK PILLAR
- NEW LV INDUSTRIAL DOUBLE LINK PILLAR
- EXISTING LV PILLAR
- PILLAR EARTHING, AS PER EDI100
- EXISTING POLE
- EXISTING POLE AND LANTERN
- EXISTING COLUMN AND LANTERN
- NEW COLUMN AND LANTERN
- PE L268337 C929885 — EXISTING LANTERN NO. (PE CELL CONTROLLED) EXISTING COLUMN NO.
- PE L288397 C968318 — NEW LANTERN NO.(PE CELL CONTROLLED) NEW COLUMN NO.



LIGHTING EQUIPMENT AND BILLING SCHEDULE

STATE	SYMBOL	SL NUMBER		SUPPORT NUMBER		LUMINAIRE					COLUMN/POLE					COLOUR	BRACKET/OUTREACH			UPCAST	CATEGORY	CHARGE TO
		NEW	EXISTING	NEW	EXISTING	DESCRIPTION	PART NO	RATE CODE	QTY	MOUNTING HEIGHT	DESCRIPTION	PART NO	FOOTING (BOLT/FOUNDATION)	QTY	RATE CODE	DESCRIPTION	DESCRIPTION	PART NO	RATE CODE			
NEW	□☼	XXXX	-	XXXX	-	24W STREETLED	JLC99G11L24	755	15	7.5	5.5m ENLARGED BASE COLUMN	IE/EB5.5	TYPE 2 RAG BOLT / TYPE 2 FOUNDATION	3	995	GALVANISED	4.5m SINGLE OUTREACH	IE4.5PCS/25	991	5°	PR5	PENRITH CITY COUNCIL (100%)



NEW LABELS
SUB XXXX3

'R' - TO MSB FOR BUILDINGS ON LOT 2	XXXXX
'S' - TO LV PILLAR 'S'P2	XXXXX
'T' - TRANSFORMER	XXXXX
'U' - SPARE	XXXXX

Cadastre: © Land and Property Information 2016

PRELIMINARY ONLY
NOT FOR CONSTRUCTION

AMENDMENTS: ORIGINAL ISSUE — A — DRAFT No. 01

Electricity and Comms Infrastructure and Building Engineering Consultants
Level 3 ASP #2508

35/5-7 Inglewood Place
Norwest NSW 2153

PO Box 8114
Norwest NSW 2153

P: +612 8814 1299
E: info@edgewaterconnections.com.au
W: www.edgewaterconnections.com.au

Design Ref: 5509

EDGEWATER CONNECTIONS

TEMPLATE VERSION No.5.20

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REFERENCE DRAWING'S		WORK ORDERS		CAMS File No.	UIS1529
XXXXX	DUCT, TRENCHING AND	GENERAL		AM PROJ. No.	
	EASEMENT PLAN	OVERHEAD		HV SWITCHING	
		UNDERGROUND		EE DEPOT	PENRITH
		SUBSTATIONS		EE REGION	NORTHERN
				HV OP DIAG	KEMPS CREEK
				LOCAL GOV AREA	PENRITH

ORIGINAL SCALE AS NOTED

DRAWN J.R.P. | DATE 14/10/2025 | CH'D O.B.

DO NOT SCALE
DIMENSIONS IN METRES
GDA 2020 / MGA 56
COORDINATE SYSTEM

DESIGN J.R.P.

LOT 100, DP 1283398 & LOT 741, DP 810111
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ELECTRICAL RETICULATION

Endeavour Energy

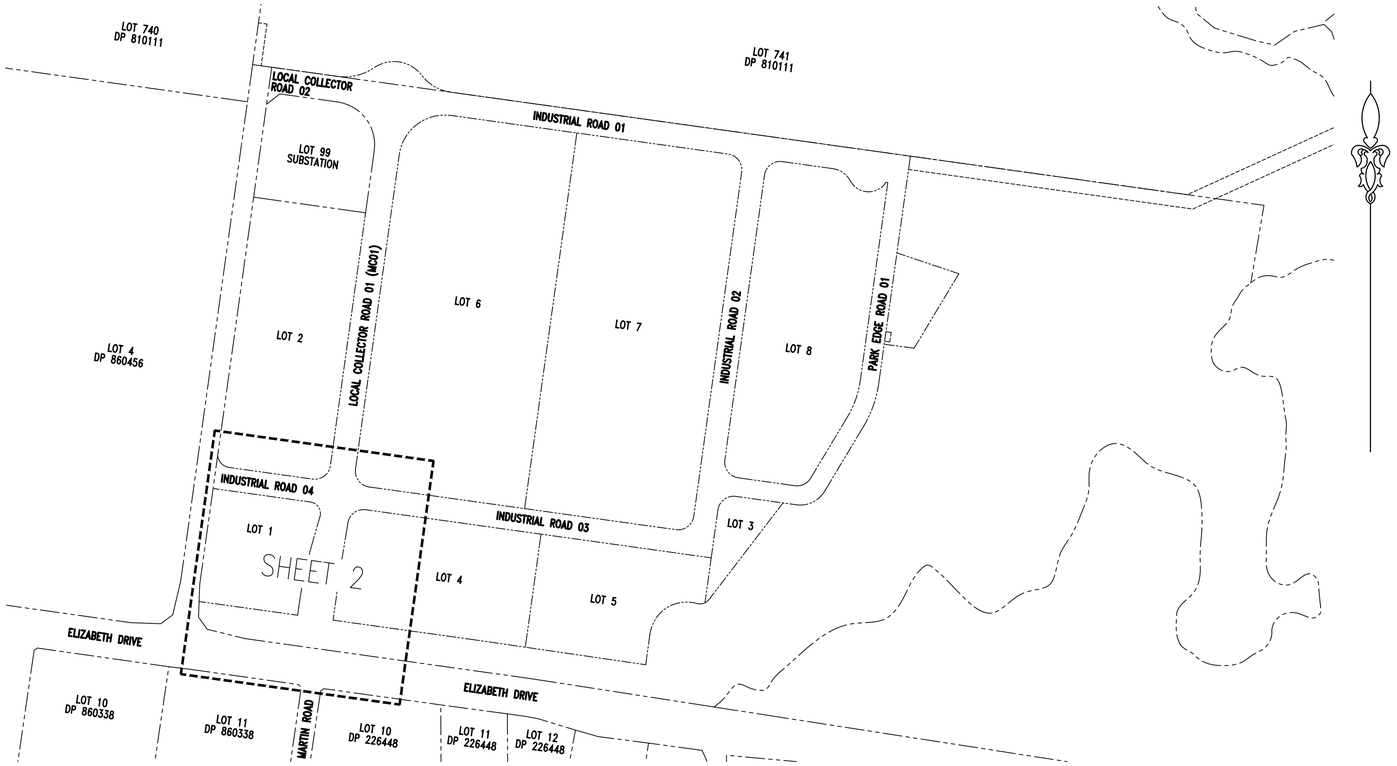
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SHEET No 6 OF XYZ SHEETS

100517

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS

NOTES :-

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

FOR:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

1. ALL WORKS & MATERIALS ARE TO BE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION – 2014), SYDNEY WATER'S TECHNICAL SPECIFICATION – CIVIL (VERSION 11.0)
2. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
3. THE CONSTRUCTOR IS TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES WITHIN THE VICINITY OF THE WATERMAIN WORKS BY POTHOLING PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO NOTIFY THE W.S.C. SHOULD ANY POTENTIAL CLASHES OCCUR OR MINIMUM CLEARANCES IN ACCORDANCE WITH TABLE 5.5 OF THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014) CANNOT BE ACHIEVED.
4. CONSTRUCTOR TO CONFIRM LEVEL & LOCATION OF ALL EXISTING WATER MAINS AT CONNECTION POINTS PRIOR TO CONSTRUCTION.
5. MAIN TO BE LAID GENERALLY AT MIN. 0.75m COVER BELOW PROPOSED TOP OF KERB EXCEPT WHERE OTHERWISE SHOWN. – REFER TO NOTE 13.
6. MAIN LAYING NOT TO PROCEED PRIOR TO FORMATION OF FOOTWAYS TO FINISHED SURFACE LEVELS.
7. BURIED FITTINGS AND CHANGES OF PIPE TYPE ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE W.S.C. IN ADDITION, SYDNEY WATER CONSTRUCTOR SHALL RECORD AS BUILT DATA AS A MARK-UP ON DESIGN PLAN AND PROVIDE TO W.S.C.
8. SURFACE BOXES LOCATED IN PAVEMENT AREAS ARE TO BE ASPHALTIC/CONCRETE PAVEMENT TYPE BOXES & FITTINGS LOCATED TO ENSURE SURFACE BOXES ARE POSITIONED CLEAR OF PRAM RAMPS.
9. COUNCIL'S TREE PRESERVATION ORDER TO BE STRICTLY ADHERED TO. EXCAVATIONS IN THE VICINITY OF TREES ARE TO BE CARRIED OUT IN ACCORDANCE WITH ARBORIST SPECIFICATIONS AND UNDER THE SUPERVISION OF THE SITE ARBORIST (MANUAL OR HYDRO-EXCAVATION MAY BE REQUIRED).
NOTE: TREES SHOWN ON PLAN BASED ON SURVEYED LOCATIONS. ALL TREES MAY NOT HAVE BEEN SHOWN.
10. ALL PROPERTY (MAIN TO METER) SERVICES MUST BE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METER) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING & DRAINAGE AND AS/NZS3500.
11. MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA AND SYDNEY WATER'S TECHNICAL SPECIFICATION (CIVIL) SHALL BE DETERMINED AND INCLUDED IN THE COMPACTION QUALITY ASSURANCE PLAN WHICH IS TO BE PREPARED BY THE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE.
12. CONSTRUCTOR SHALL COORDINATE AND LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES.
13. MAINS TO BE RELATED TO PROPERTY BOUNDARIES FOR WORK-AS-CONSTRUCTED PURPOSES. FIXTURES, TEES BENDS, EVERY CHANGE OF DIRECTION (VERTICAL OR HORIZONTAL) & PROPERTY SERVICE CONNECTIONS NOT TO BE BACKFILLED UNTIL WAC DETAILS HAVE BEEN OBTAINED AND RECORDED BY THE DESIGNER AND SURVEYED BY SITE SURVEYOR AND APPROVED BY THE WATER SERVICING CO-ORDINATOR. RELEVANT SURVEYED INFORMATION SHALL BE ADDED ON A SITE PLAN BY SURVEYOR AND SUPPLIED TO DESIGNER IN AUTOCAD FORMAT FOR INCLUSION ON THE WAC DRAWINGS. FOR AREAS WHERE MAINS CAN NOT BE TIED TO PROPERTY BOUNDARIES THESE SHALL BE SURVEYED AND COORDINATES PROVIDED TO DESIGNER SO MAINS CAN BE TIED TO SSM OR PM.
14. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. DEFLECTIONS AT PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS, MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS. CONCRETE ENCASEMENT MAY BE REQUIRED ON SECTIONS OF WATERMAIN OTHER THAN WHERE INDICATED. CONDITIONS MAY REQUIRE CONSTRUCTION FOR FOUNDATIONS IN BAD GROUND.
16. WATER MAINS TO BE LAID PRIOR TO THE INSTALLATION OF ALL FUTURE SERVICES. FUTURE SERVICES HAVE NOT BEEN CONFIRMED OR FINALISED AND THEREFORE SHOULD NOT TO BE CONSIDERED. FUTURE SERVICES HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY.
17. ALL ROADS, CHAMBERS, PITS AND SURFACE COVERS PROPOSED FINISHED LEVELS SHALL BE RECONFIRMED AT TIME OF CONSTRUCTION BY MAIN ROAD CONTRACTOR AND ROAD CIVIL DESIGN DRAWINGS.
18. CONSTRUCTOR TO PREPARE A WORK METHOD STATEMENT IN CONJUNCTION WITH THE REVIEW OF ENVIRONMENTAL FACTORS AND SUBMIT TO SWC FOR APPROVAL PRIOR TO COMMENCEMENT.
19. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY DATED 19/12/2011 TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
20. ALL SAFETY PRECAUTIONS TO BE TAKEN FOR ELECTRICAL EARTHING OF BUILDINGS WHEN DISCONNECTING/CONNECTING WATER PROPERTY CONNECTION SERVICES.
21. ALL MAJOR ROAD CROSSINGS SHALL BE INSTALLED WITH A MINIMUM OF 1% GRADE.

DEEMED TO COMPLY :-

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 – ISSUE B 31/07/2024
2.2. REFER DTC 1111 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 – ISSUE C 31/07/2024
2.3. REFER DTC 1112 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C ≤ DN300 TAPERS – ISSUE C 31/07/2024
2.4. REFER DTC 1113 – THRUST BLOCK DETAILS TEES – ISSUE C 31/07/2024
2.5. REFER DTC 1114 – THRUST BLOCK DETAILS HYDRANT BENDS – ISSUE B 31/07/2024
2.6. REFER DTC 1115 – ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES – ISSUE C 31/07/2024

WATER SUPPLY CODE WSA-03 DRAWINGS:

1. REFER TO WAT-1250-S – STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 – VERSION 3 ISSUED 2012
2. REFER TO WAT-1301-V – TYPICAL VALVE & HYDRANT INSTALLATION – VERSION 2 ISSUED 2012
3. REFER TO WAT-1303-V/WAT-1304-V – TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE – VERSION 2 ISSUED 2012
4. REFER TO WAT-1305-V/WAT-1306-V – TYPICAL SURFACE FITTING INSTALLATION HYDRANT – VERSION 3 ISSUED 2013

BEFORE YOU DIG www.byda.com.au
CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

CONTACT BEFORE YOU DIG AUS.
MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

No.	AMENDMENT DESCRIPTION	BY	DATE
01	ISSUE TO SWC FOR APPROVAL	H.J.	07/10/25
00	CONCEPT FOR COORDINATION	H.J.	09/09/25

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 1 OF 3 SHEETS

JOB NO. 16-369 KEMPS CREEK – POTABLE WATER INTERSECTION DA

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY	Ph. 131 033
GAS JEMENA GAS	Ph. 131 909
TELECOMMUNICATIONS TELSTRA	Ph. 132 203
NBN Co.	Ph. 1800 687 626

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP WATER:	05/09/25	AT&L			
ADJ & DEV WATER:	03/04/25	AT&L			
PROP RECYCLED WATER:	05/09/25	AT&L			
PROP STORMWATER:	23/09/24	AT&L			
PROP HV/LV:	23/09/24	AT&L			
PROP NBN:	23/09/24	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
200	o.P.V.C.	PN16	311.2m	RRJ
100	o.P.V.C.	PN16	3.9m	RRJ

DESIGN HEAD 120 m
BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION { HOR. VERT.
CROSS SECTIONS NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 3 File No. .....

SYDNEY WATER CORPORATION

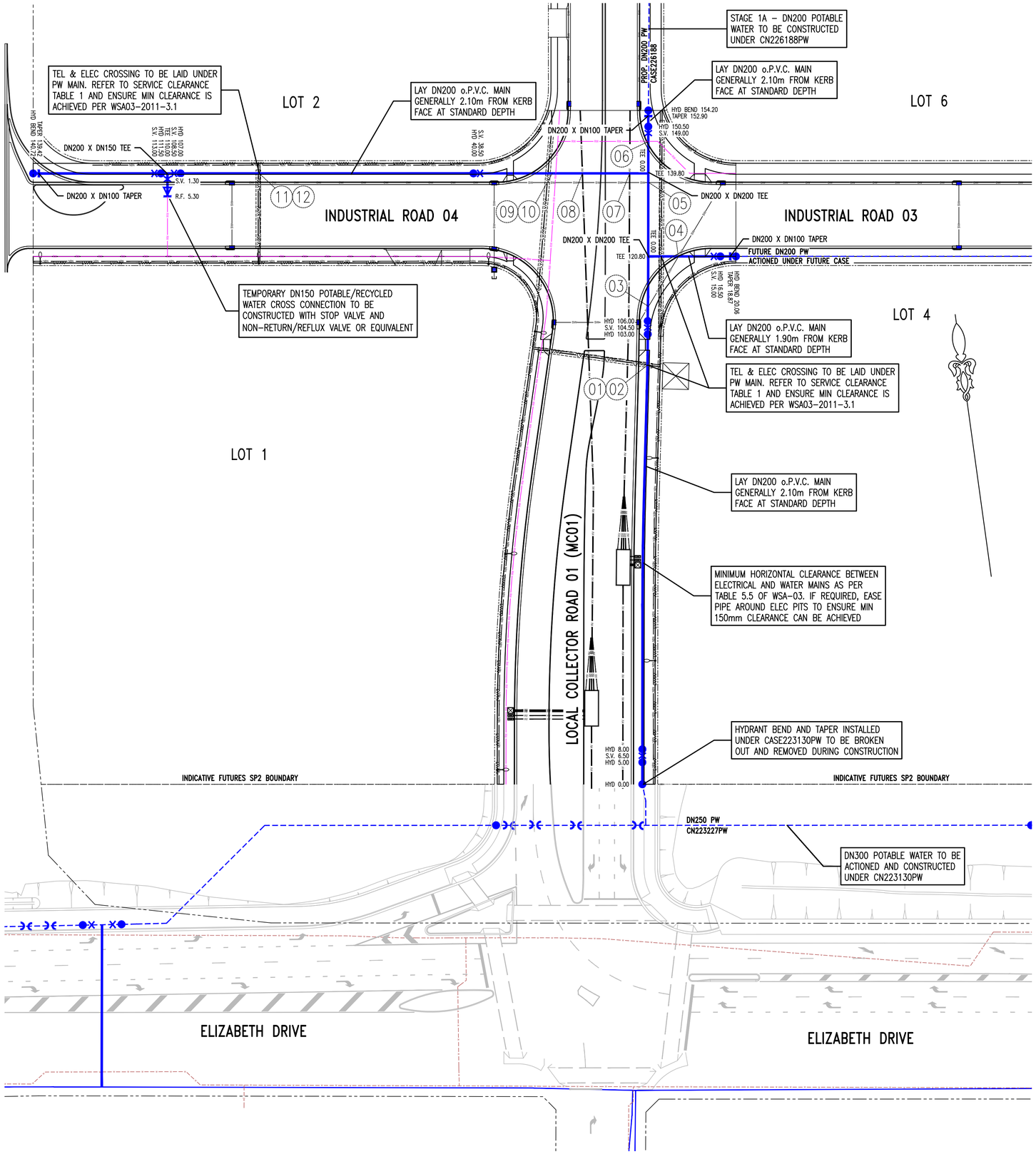
Case No.226187PW

WATERMAIN EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

FILE LOCATION: 16-369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

A1F

DEVELOPER CONTRACT PLAN



SERVICE CLEARANCE TABLE 1

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
01	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
02	TEL	MIN 1.13m*	0.75m	0.15m*	OVER
03	STORMWATER	2.33m	0.75m	1.35m	OVER
04	STORMWATER	1.77m	0.75m	0.79m	OVER
05	STORMWATER	1.89m	0.75m	0.91m	OVER
06	RECYCLED WATER	1.60m	0.75m	0.31m	OVER
07	HV ELEC	MIN 1.59m*	0.75m	0.60m	OVER
08	HV ELEC	MIN 1.59m*	0.75m	0.60m	OVER
09	RECYCLED WATER	2.95m	0.75m	1.72m	OVER
10	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
11	TEL	MIN 1.13m*	0.75m	0.15m*	OVER
12	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. 226187PW | SHT 2 OF 3 SHTS.

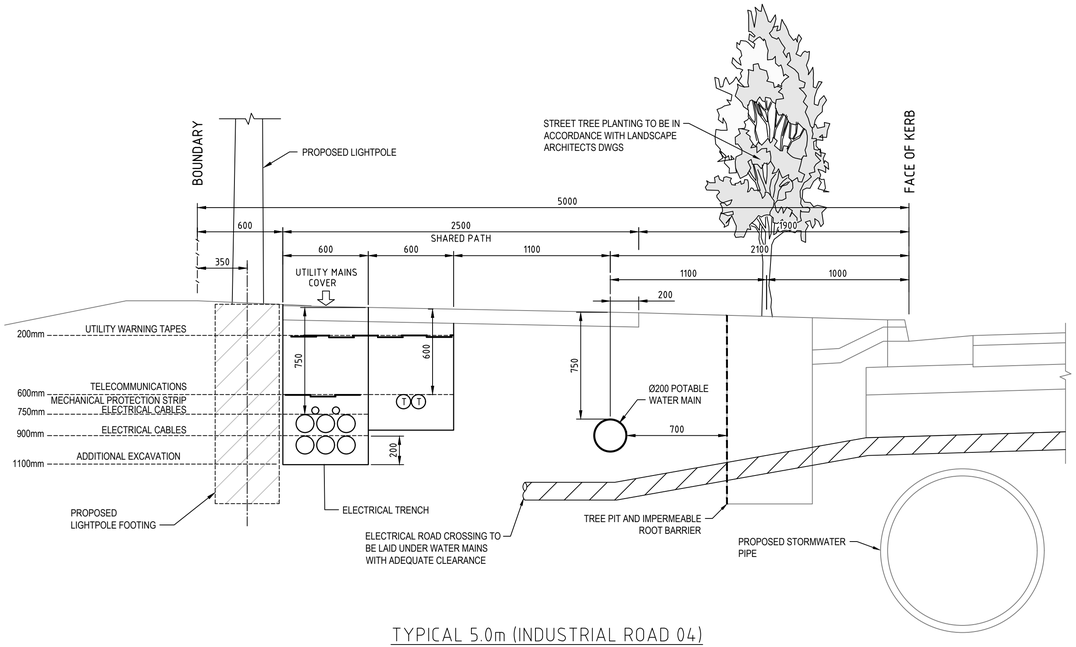
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

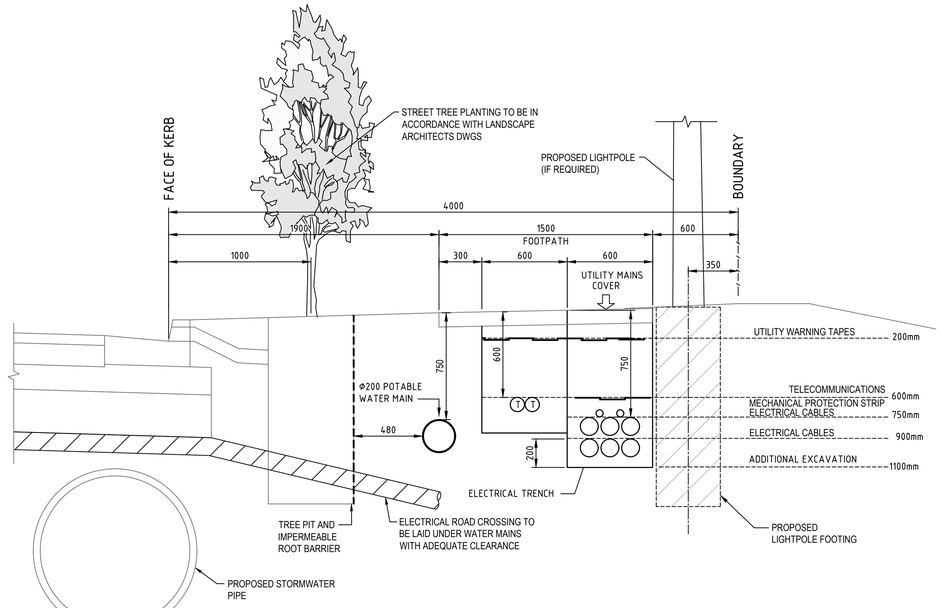
PLAN DRAWN DATE: 07/10/2025 VERSION: 01 SHEET 2 OF 3 SHEETS

A1F

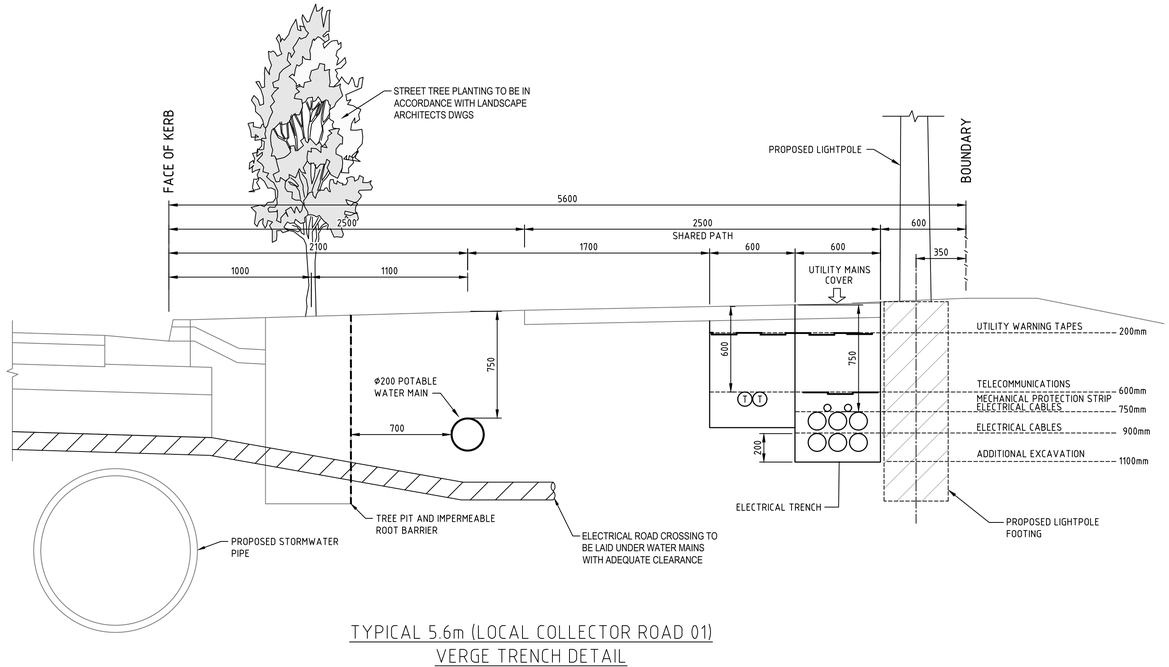
DEVELOPER CONTRACT PLAN



TYPICAL 5.0m (INDUSTRIAL ROAD 04)
VERGE TRENCH DETAIL
NTS



TYPICAL 4.0m (INDUSTIRAL ROAD 03)
VERGE TRENCH DETAIL
NTS



TYPICAL 5.6m (LOCAL COLLECTOR ROAD 01)
VERGE TRENCH DETAIL
NTS

DRAFT ONLY

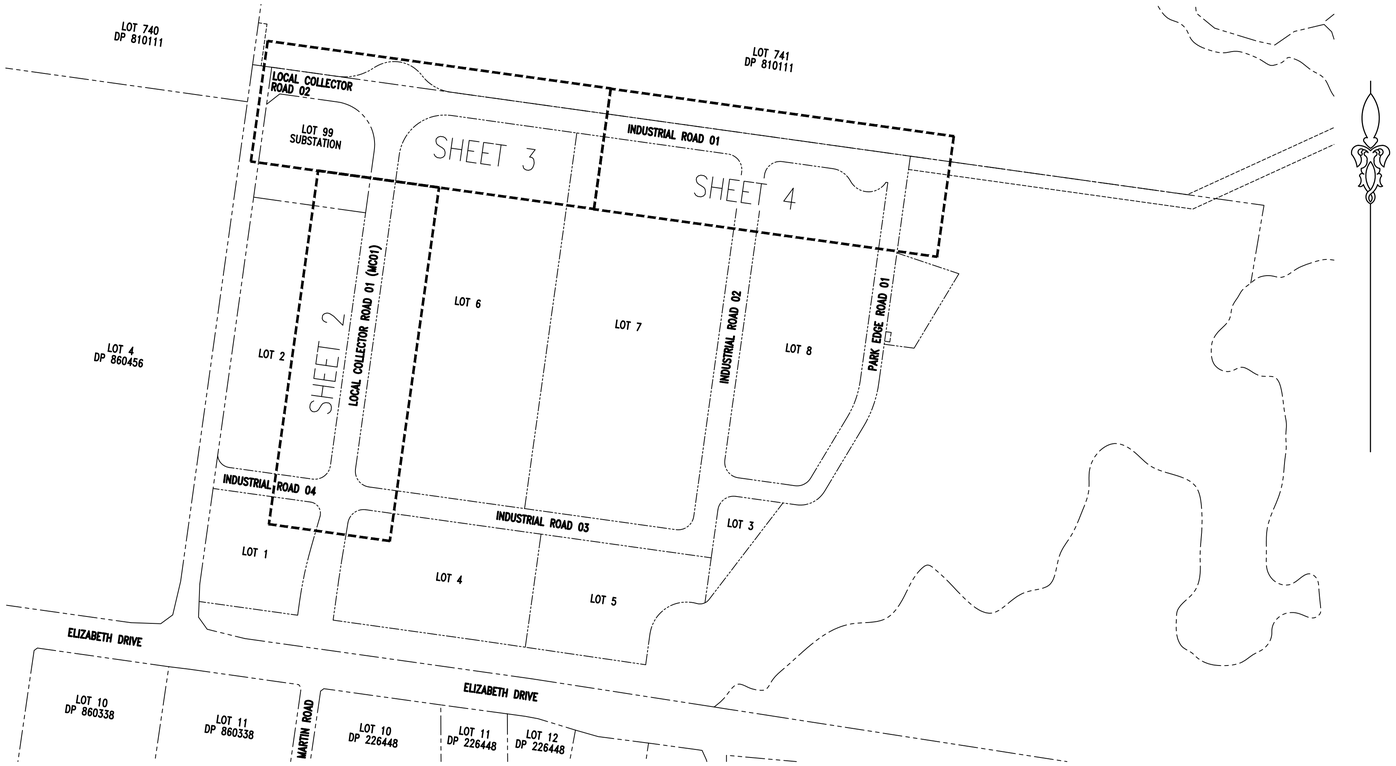
NOT FOR CONSTRUCTION

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. 226187PW | SHT 3 OF 3 SHTS.
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 01 SHEET 3 OF 3 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

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MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

NOTES :-

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

FOR:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

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14. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. DEFLECTIONS AT PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS, MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS. CONCRETE ENCASEMENT MAY BE REQUIRED ON SECTIONS OF WATERMAIN OTHER THAN WHERE INDICATED. CONDITIONS MAY REQUIRE CONSTRUCTION FOR FOUNDATIONS IN BAD GROUND.
16. WATER MAINS TO BE LAID PRIOR TO THE INSTALLATION OF ALL FUTURE SERVICES. FUTURE SERVICES HAVE NOT BEEN CONFIRMED OR FINALISED AND THEREFORE SHOULD NOT TO BE CONSIDERED. FUTURE SERVICES HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY.
17. ALL ROADS, CHAMBERS, PITS AND SURFACE COVERS PROPOSED FINISHED LEVELS SHALL BE RECONFIRMED AT TIME OF CONSTRUCTION BY MAIN ROAD CONTRACTOR AND ROAD CIVIL DESIGN DRAWINGS.
18. CONSTRUCTOR TO PREPARE A WORK METHOD STATEMENT IN CONJUNCTION WITH THE REVIEW OF ENVIRONMENTAL FACTORS AND SUBMIT TO SWC FOR APPROVAL PRIOR TO COMMENCEMENT.
19. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY DATED 19/12/2011 TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
20. ALL SAFETY PRECAUTIONS TO BE TAKEN FOR ELECTRICAL EARTHING OF BUILDINGS WHEN DISCONNECTING/CONNECTING WATER PROPERTY CONNECTION SERVICES.
21. ALL MAJOR ROAD CROSSINGS SHALL BE INSTALLED WITH A MINIMUM OF 1% GRADE.

DEEMED TO COMPLY :-

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 – ISSUE B 31/07/2024
2.2. REFER DTC 1111 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 – ISSUE C 31/07/2024
2.3. REFER DTC 1112 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C ≤ DN300 TAPERS – ISSUE C 31/07/2024
2.4. REFER DTC 1113 – THRUST BLOCK DETAILS TEES – ISSUE C 31/07/2024
2.5. REFER DTC 1114 – THRUST BLOCK DETAILS HYDRANT BENDS – ISSUE B 31/07/2024
2.6. REFER DTC 1115 – ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES – ISSUE C 31/07/2024

WATER SUPPLY CODE WSA-03 DRAWINGS:

1. REFER TO WAT-1250-S – STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 – VERSION 3 ISSUED 2012
2. REFER TO WAT-1301-V – TYPICAL VALVE & HYDRANT INSTALLATION – VERSION 2 ISSUED 2012
3. REFER TO WAT-1303-V/WAT-1304-V – TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE – VERSION 2 ISSUED 2012
4. REFER TO WAT-1305-V/WAT-1306-V – TYPICAL SURFACE FITTING INSTALLATION HYDRANT – VERSION 3 ISSUED 2013
5. REFER TO WAT-1850-S – TYPICAL MAINS CONSTRUCTION RETICULATION MAIN ARRANGEMENT FOR DUAL WATER SYSTEMS – VERSION 1 ISSUED 2003

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 1 OF 4 SHEETS

No.	AMENDMENT DESCRIPTION	BY	DATE
00	CONCEPT FOR COORDINATION	H.J.	07/10/25

JOB NO. 16-369 KEMPS CREEK – POTABLE WATER STAGE 1A

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY	Ph. 131 033
GAS JEMENA GAS	Ph. 131 909
TELECOMMUNICATIONS TELSTRA	Ph. 132 203
NBN Co.	Ph. 1800 687 626

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP WATER:	07/10/25	AT&L			
ADJACENT WATER:	07/10/25	AT&L			
PROP RECYCLED WATER:	07/10/25	AT&L			
PROP STORMWATER:	25/10/25	AT&L			
PROP LV/HV:	25/10/25	AT&L			
PROP HV:	25/10/25	AT&L			
PROP NBN:	25/10/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
200	o.P.V.C.	PN16	1075m	RRJ
100	o.P.V.C.	PN16	7.8m	RRJ
200	D.I.C.L	PN35	110.6m	RRJ

DESIGN HEAD 120 m
BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION { HOR. VERT.
CROSS SECTIONS ——— NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 4 File No. .....

SYDNEY WATER CORPORATION
Sydney WATER

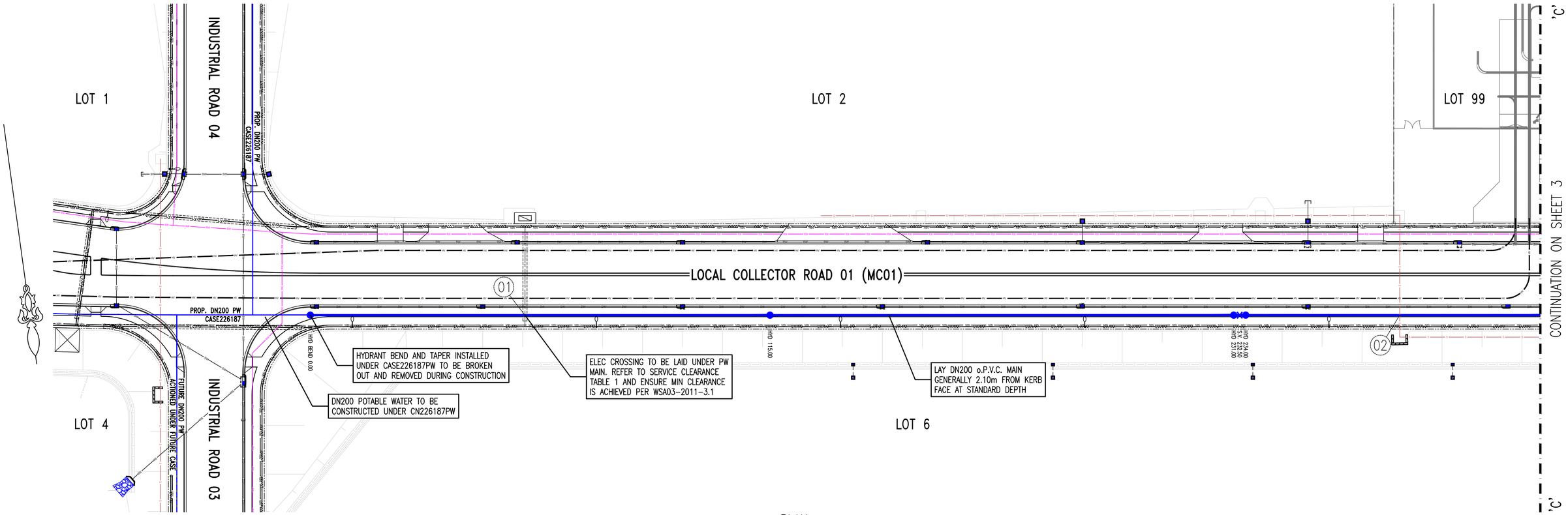
Case No.226188PW

WATERMAIN EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

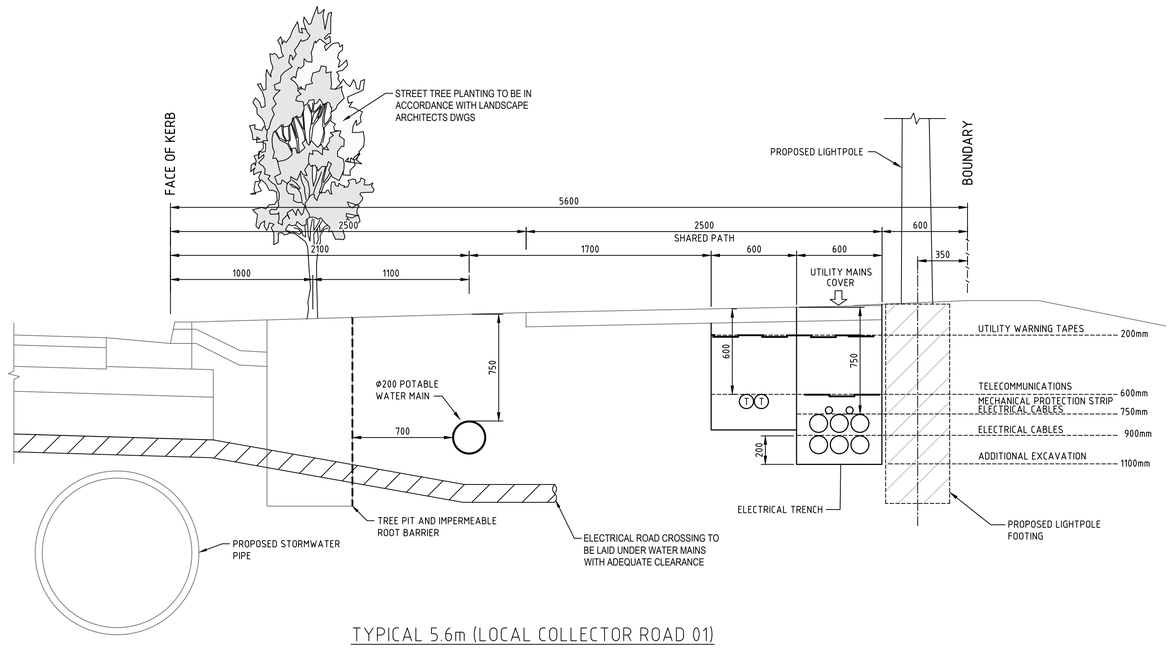
FILE LOCATION: 16-369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 5.6m (LOCAL COLLECTOR ROAD 01)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 1

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
01	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
02	SEWER	3.22m	0.75m	2.23m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

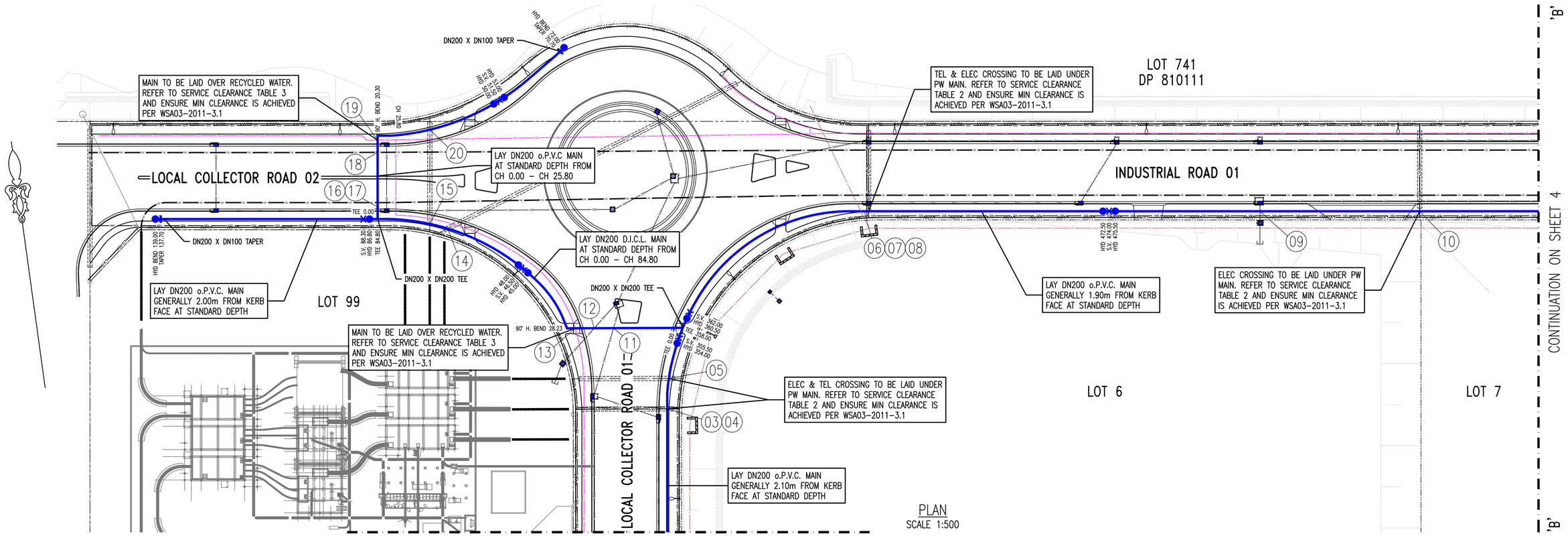
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	Case No. 226188PW | SHT 2 OF 4 SHTS.
CONSTRUCTOR	
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
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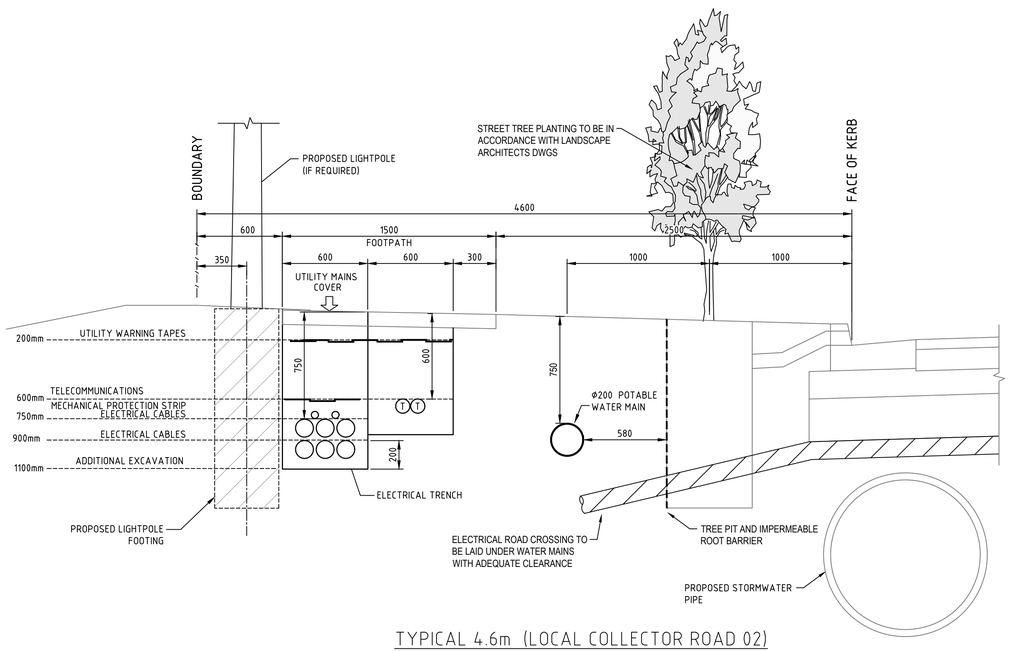
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 2 OF 4 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 4.6m (LOCAL COLLECTOR ROAD 02)
VERGE TRENCH DETAIL
SCALE 1:20

SERVICE CLEARANCE TABLE 2

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
03	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
04	TEL	MIN 1.13m*	0.75m	0.15m*	OVER
05	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
06	SEWER	4.25m	0.75m	3.27m	OVER
07	TEL	MIN 1.13m*	0.75m	0.15m*	OVER
08	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
09	STORMWATER	1.25m	0.75m	0.27m	OVER
10	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
11	STORMWATER	2.03m	0.75m	1.04m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

SERVICE CLEARANCE TABLE 3

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
12	STORMWATER	1.67m	0.75m	0.68m	OVER
13	RECYCLED WATER	1.30m*	0.75m	0.30m*	OVER
14	ELEC	MIN 1.54m*	0.75m	0.55m*	OVER
15	ELEC	MIN 1.54m*	0.75m	0.55m*	OVER
16	STORMWATER	2.07m	0.75m	1.08m	OVER
17	HV ELEC	MIN 1.91m*	0.75m	0.92m	OVER
18	HV ELEC	MIN 1.91m*	0.75m	0.92m	OVER
19	RECYCLED WATER	1.30m*	0.75m	0.30m*	OVER
20	ELEC	MIN 1.54m*	0.75m	0.55m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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CONSTRUCTOR .....
COMPLETED .....
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SYDNEY WATER CORPORATION

Sydney WATER

Case No. 226188PW | SHT 3 OF 4 SHTS.

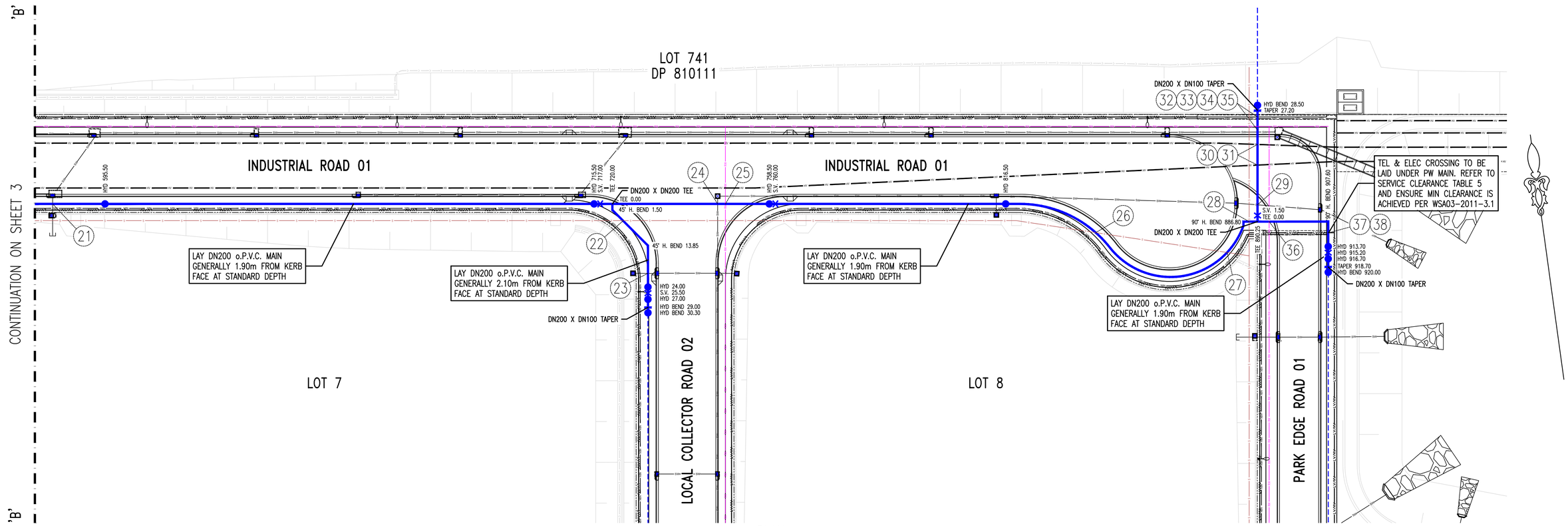
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

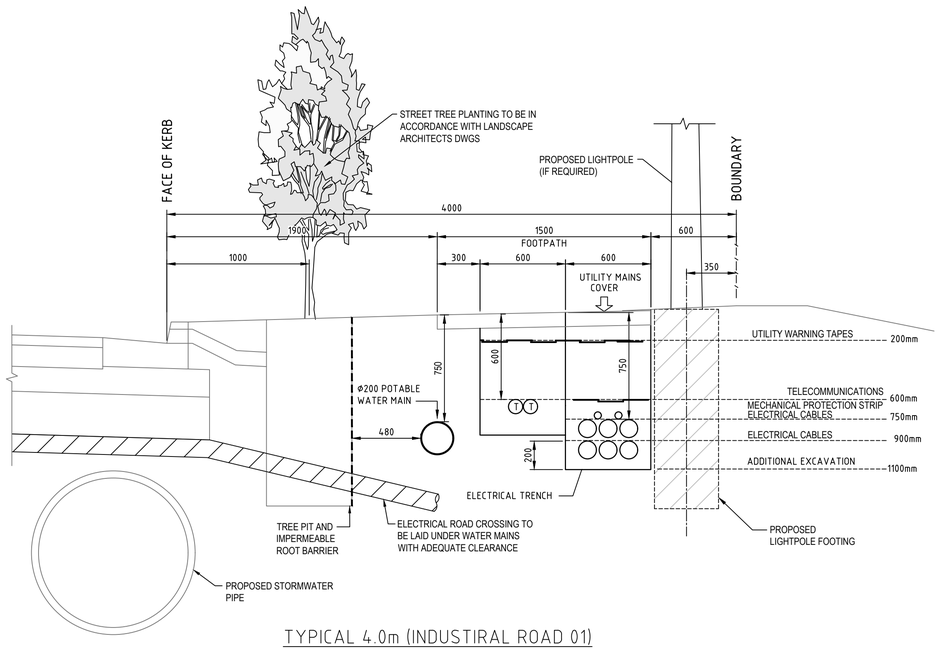
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 3 OF 4 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 4.0m (INDUSTIRAL ROAD 01)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 4

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
21	STORMWATER	1.00	0.60m	0.17	OVER
22	SEWER	2.84m	0.75m	1.80m	OVER
23	STORMWATER	TBC	0.75m	MIN 0.15m	OVER
24	STORMWATER	1.66m	0.75m	0.68m	OVER
25	RECYCLED WATER	1.19m	0.75m	0.20m	OVER
26	SEWER	3.59m	0.75m	2.55m	OVER
27	SEWER	3.67m	0.75m	2.63m	OVER
28	SEWER	13.05m	0.75m	12.00m	OVER
29	STORMWATER	2.21m	0.75m	1.23m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

SERVICE CLEARANCE TABLE 5

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
30	HV ELEC	MIN 1.59m*	0.75m	0.60m	OVER
31	HV ELEC	MIN 1.59m*	0.75m	0.60m	OVER
32	STORMWATER	MIN 1.27m*	0.75m	0.23m*	OVER
33	RECYCLED WATER	1.34m*	0.75m	0.30m*	OVER
34	TEL	MIN 1.13m*	0.75m	0.15m*	OVER
35	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
36	RECYCLED WATER	1.34m*	0.75m	0.30m*	OVER
37	ELEC	MIN 1.22m*	0.75m	0.23m*	OVER
38	TEL	MIN 1.13m*	0.75m	0.15m*	OVER

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SYDNEY WATER CORPORATION

Sydney WATER

Case No. 226188PW | SHT 4 OF 4 SHTS.

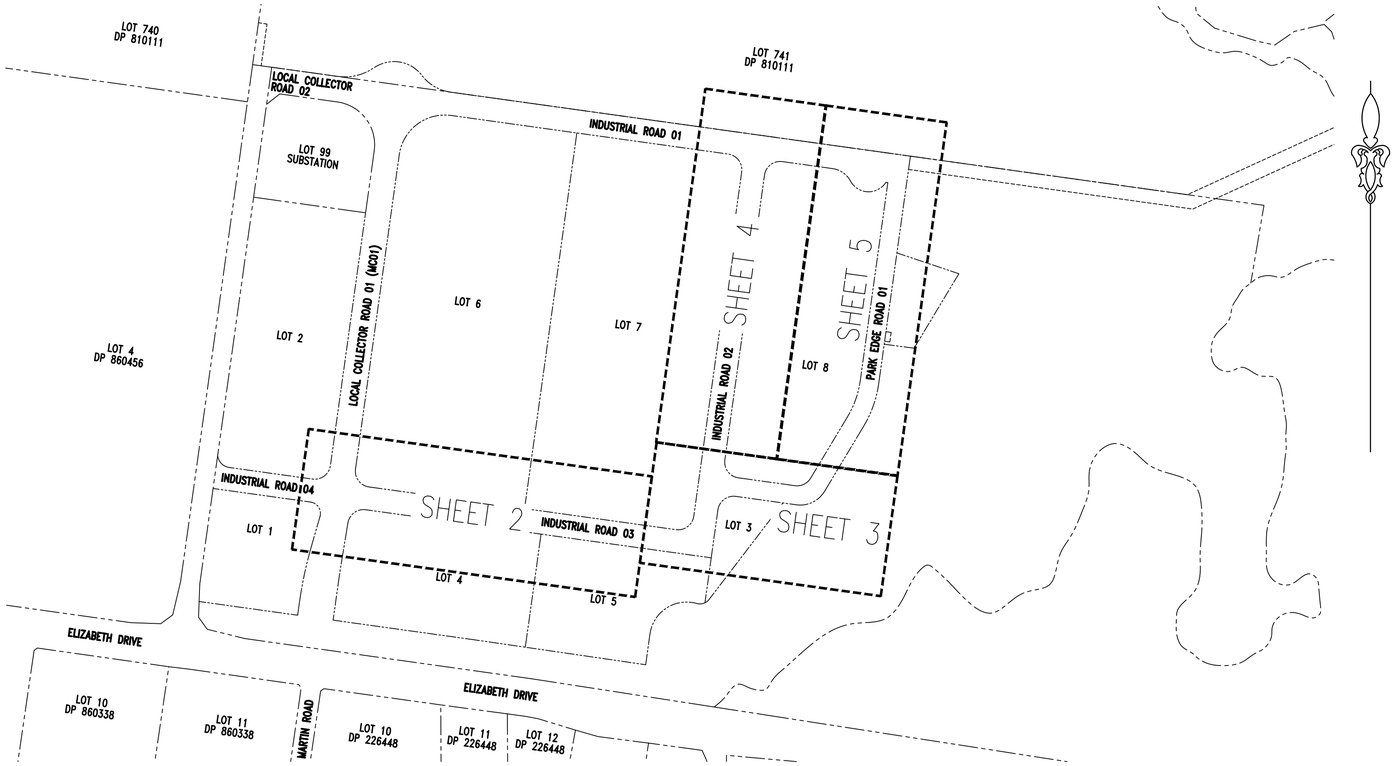
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 4 OF 4 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
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AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

FOR:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

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12. CONSTRUCTOR SHALL COORDINATE AND LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES.
13. MAINS TO BE RELATED TO PROPERTY BOUNDARIES FOR WORK–AS–CONSTRUCTED PURPOSES. FIXTURES, TEES BENDS, EVERY CHANGE OF DIRECTION (VERTICAL OR HORIZONTAL) & PROPERTY SERVICE CONNECTIONS NOT TO BE BACKFILLED UNTIL WAC DETAILS HAVE BEEN OBTAINED AND RECORDED BY THE DESIGNER AND SURVEYED BY SITE SURVEYOR AND APPROVED BY THE WATER SERVICING CO–ORDINATOR. RELEVANT SURVEYED INFORMATION SHALL BE ADDED ON A SITE PLAN BY SURVEYOR AND SUPPLIED TO DESIGNER IN AUTOCAD FORMAT FOR INCLUSION ON THE WAC DRAWINGS. FOR AREAS WHERE MAINS CAN NOT BE TIED TO PROPERTY BOUNDARIES THESE SHALL BE SURVEYED AND COORDINATES PROVIDED TO DESIGNER SO MAINS CAN BE TIED TO SSM OR PM.
14. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. DEFLECTIONS AT PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS, MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS. CONCRETE ENCASEMENT MAY BE REQUIRED ON SECTIONS OF WATERMAIN OTHER THAN WHERE INDICATED. CONDITIONS MAY REQUIRE CONSTRUCTION FOR FOUNDATIONS IN BAD GROUND.
16. WATER MAINS TO BE LAID PRIOR TO THE INSTALLATION OF ALL FUTURE SERVICES. FUTURE SERVICES HAVE NOT BEEN CONFIRMED OR FINALISED AND THEREFORE SHOULD NOT TO BE CONSIDERED. FUTURE SERVICES HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY.
17. ALL ROADS, CHAMBERS, PITS AND SURFACE COVERS PROPOSED FINISHED LEVELS SHALL BE RECONFIRMED AT TIME OF CONSTRUCTION BY MAIN ROAD CONTRACTOR AND ROAD CIVIL DESIGN DRAWINGS.
18. CONSTRUCTOR TO PREPARE A WORK METHOD STATEMENT IN CONJUNCTION WITH THE REVIEW OF ENVIRONMENTAL FACTORS AND SUBMIT TO SWC FOR APPROVAL PRIOR TO COMMENCEMENT.
19. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY DATED 19/12/2011 TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
20. ALL SAFETY PRECAUTIONS TO BE TAKEN FOR ELECTRICAL EARTHING OF BUILDINGS WHEN DISCONNECTING/CONNECTING WATER PROPERTY CONNECTION SERVICES.
21. ALL MAJOR ROAD CROSSINGS SHALL BE INSTALLED WITH A MINIMUM OF 1% GRADE.

DEEMED TO COMPLY :–

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 – ISSUE B 31/07/2024
2.2. REFER DTC 1111 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 – ISSUE C 31/07/2024
2.3. REFER DTC 1113 – THRUST BLOCK DETAILS TEES – ISSUE C 31/07/2024
2.4. REFER DTC 1115 – ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES – ISSUE C 31/07/2024

WATER SUPPLY CODE WSA–03 DRAWINGS:

1. REFER TO WAT–1250–S – STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 – VERSION 3 ISSUED 2012
2. REFER TO WAT–1301–V – TYPICAL VALVE & HYDRANT INSTALLATION – VERSION 2 ISSUED 2012
3. REFER TO WAT–1303–V/WAT–1304–V – TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE – VERSION 2 ISSUED 2012
4. REFER TO WAT–1305–V/WAT–1306–V – TYPICAL SURFACE FITTING INSTALLATION HYDRANT – VERSION 3 ISSUED 2013

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 1 OF 5 SHEETS

No.	AMENDMENT DESCRIPTION	BY	DATE
01	CONCEPT FOR COORDINATION	H.J.	07/10/25

JOB NO. 16–369 KEMPS CREEK – POTABLE WATER STAGE 1B

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY	Ph. 131 033
GAS JEMENA GAS	Ph. 131 909
TELECOMMUNICATIONS TELSTRA	Ph. 132 203
NBN Co.	Ph. 1800 687 626

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP WATER:	07/10/25	AT&L			
ADJACENT WATER:	07/10/25	AT&L			
PROP RECYCLED WATER:	07/10/25	AT&L			
PROP STORMWATER:	25/10/25	AT&L			
PROP LV/HV:	25/10/25	AT&L			
PROP HV:	25/10/25	AT&L			
PROP NBN:	25/10/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
200	o.P.V.C.	PN16	1195m	RRJ

DESIGN HEAD 120 m
BOUNDARY TRAPS ~~REQUIRED~~.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION { HOR. .:..... VERT. .:.....
CROSS SECTIONS ..... NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 5 File No. .....

Sydney WATER SYDNEY WATER CORPORATION

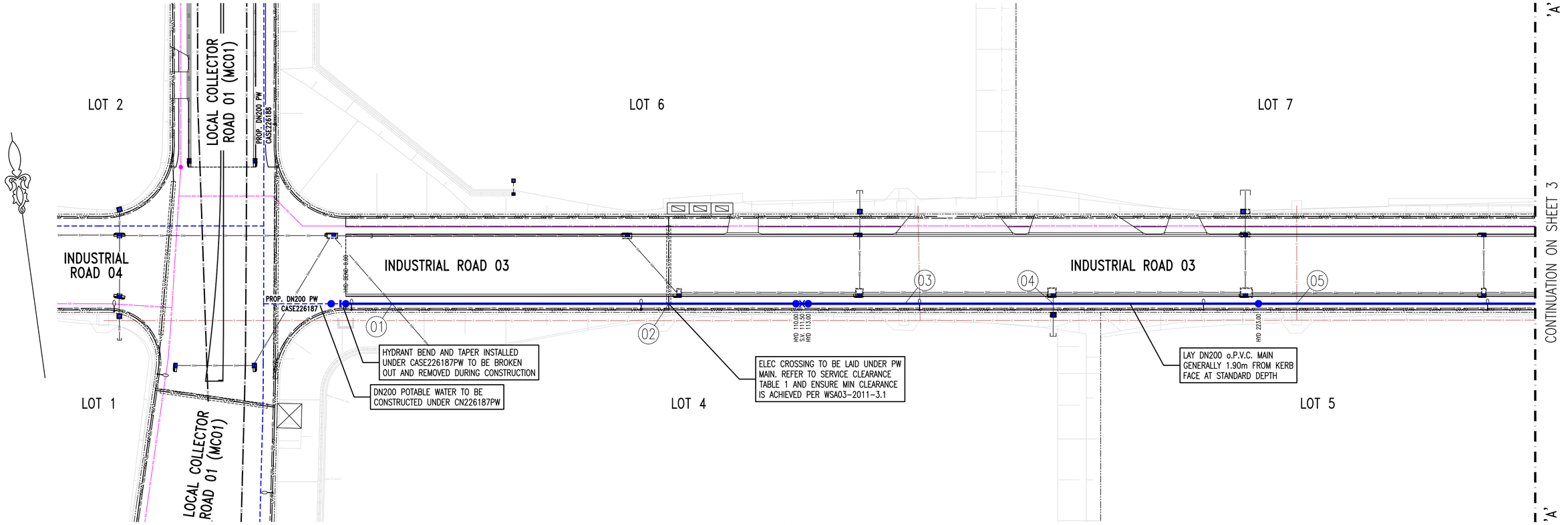
Case No.XXXXXXPW

WATERMAIN EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

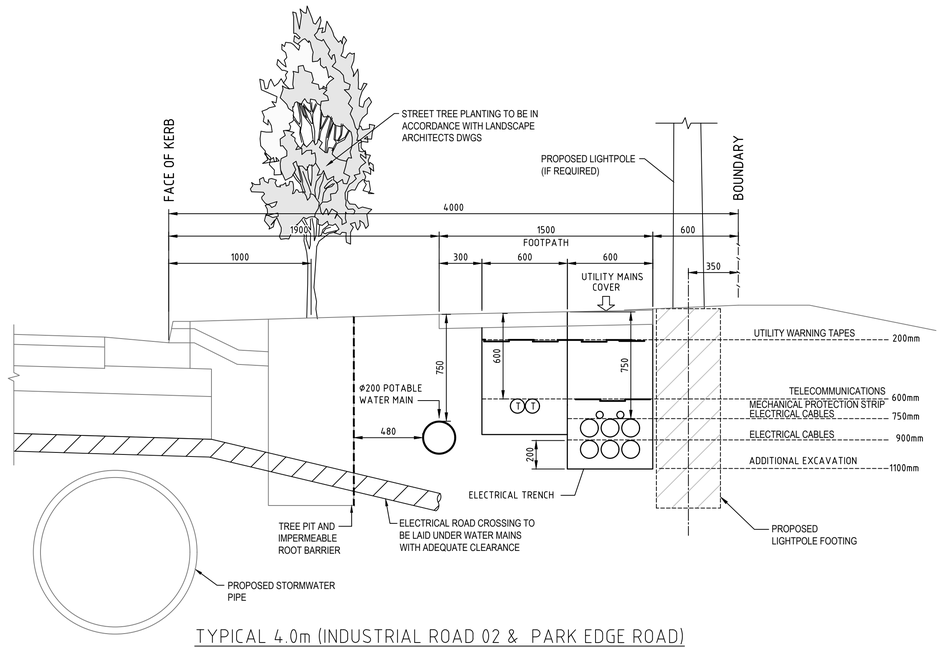
FILE LOCATION: 16–369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 4.0m (INDUSTRIAL ROAD 02 & PARK EDGE ROAD)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 1

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
01	STORMWATER	1.37m	0.75m	0.39m	OVER
02	ELEC	MIN 1.21m*	0.75m	0.23m*	OVER
03	SEWER	3.97m	0.75m	2.99m	OVER
04	STORMWATER	1.93m	0.75m	0.95m	OVER
05	SEWER	3.87m	0.75m	2.89m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

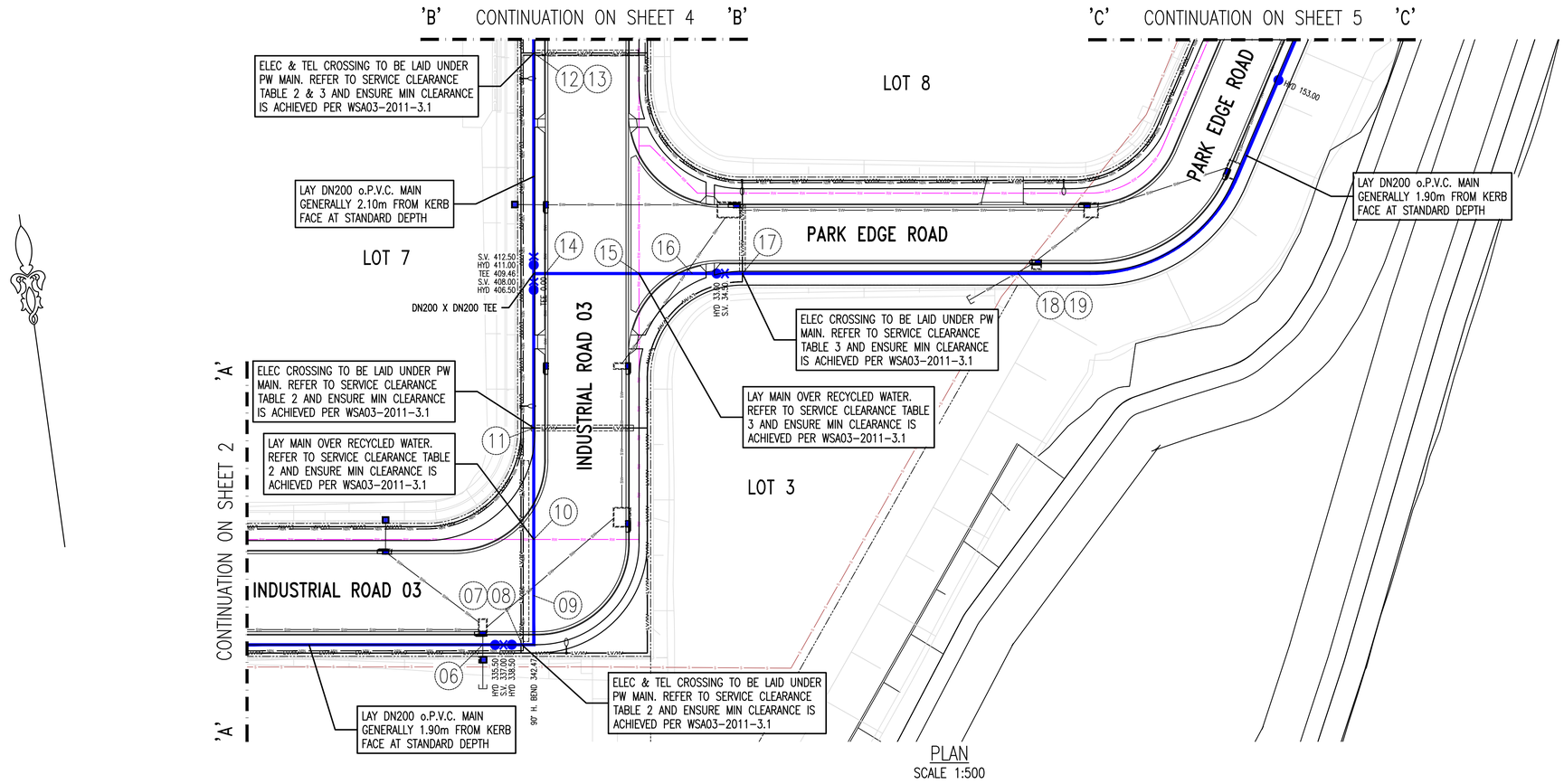
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. XXXXXXPW SHT 2 OF 5 SHTS.
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 2 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500

SERVICE CLEARANCE TABLE 2

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
06	STORMWATER	2.07m	0.75m	1.09m	OVER
07	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER
08	TEL	MIN 1.19m*	0.75m	0.15m*	OVER
09	STORMWATER	1.41m	0.75m	0.43m	OVER
10	RECYCLED WATER	1.18m	0.75m	0.20m	OVER
11	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER
12	TEL	MIN 1.19m*	0.75m	0.15m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

SERVICE CLEARANCE TABLE 3

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
13	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER
14	STORMWATER	1.46m	0.75m	0.48m	OVER
15	RECYCLED WATER	1.18m	0.75m	0.20m	OVER
16	STORMWATER	1.20m	0.75m	0.22m	OVER
17	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER
18	STORMWATER	1.69m	0.75m	0.71m	OVER
19	SEWER	5.61m	0.75m	4.63m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

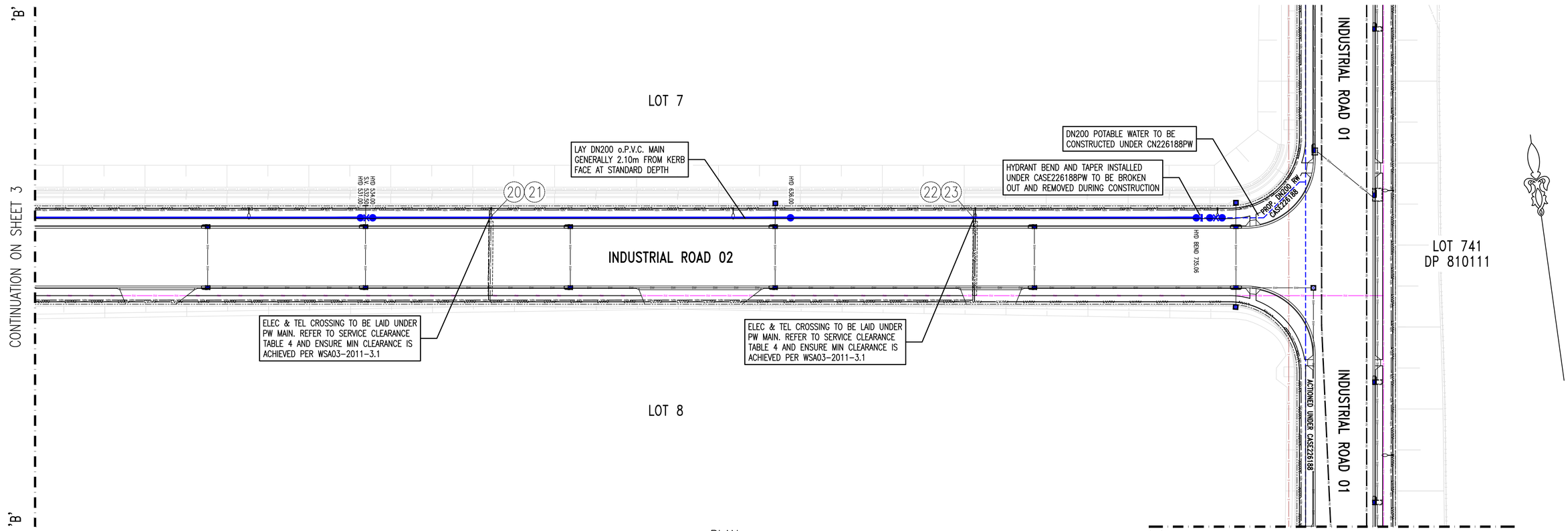
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	Case No. XXXXXXRW SHT 3 OF 5 SHTS
CONSTRUCTOR	
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

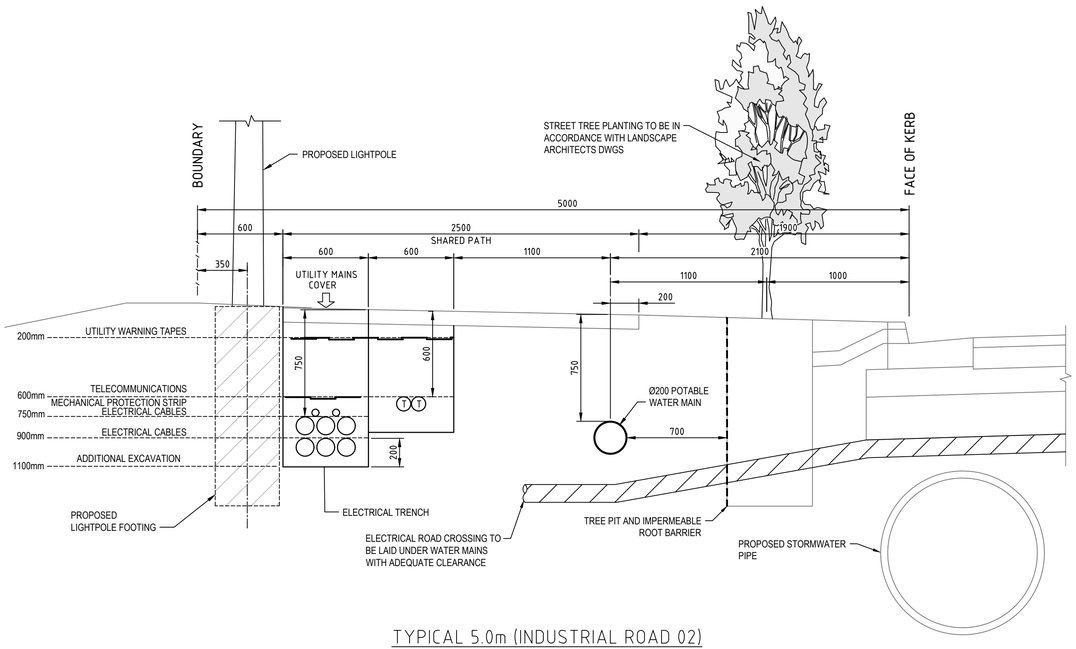
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 3 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 5.0m (INDUSTRIAL ROAD 02)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 4

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
20	TEL	MIN 1.19m*	0.75m	0.15m*	OVER
21	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER
22	TEL	MIN 1.19m*	0.75m	0.15m*	OVER
23	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....
DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. XXXXXXRW SHT 4 OF 5 SHTS

SYDNEY WATER CORPORATION

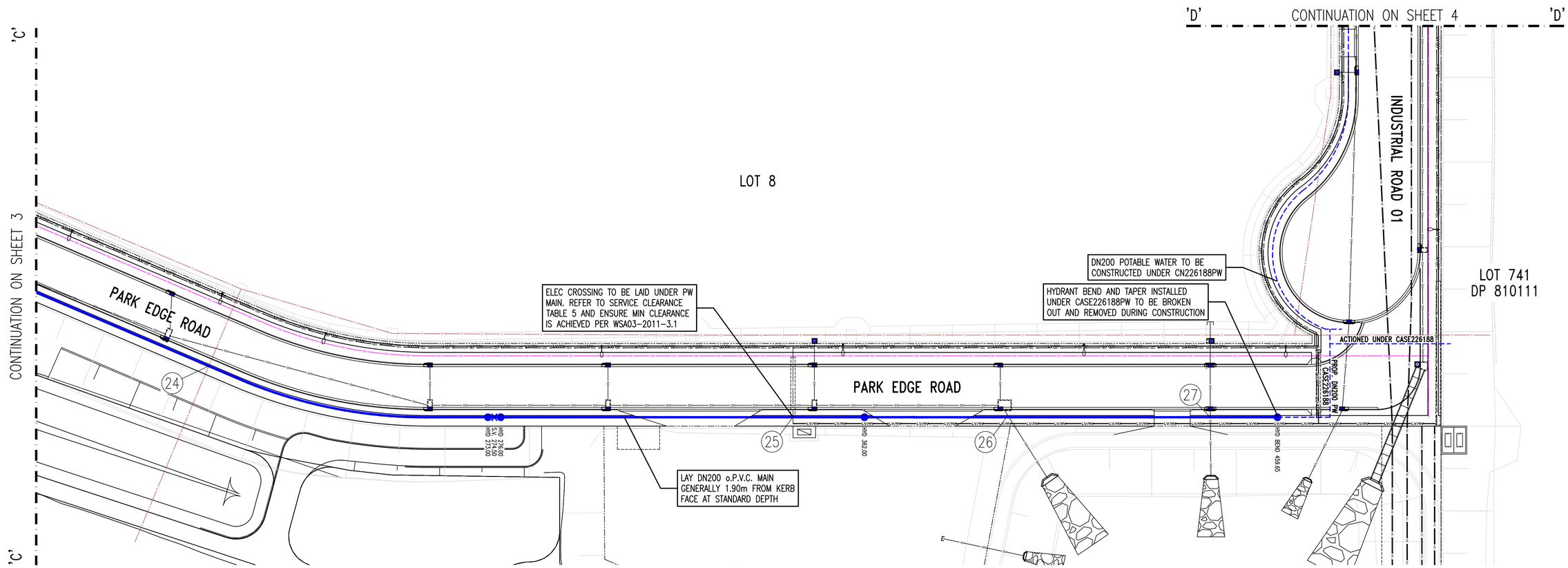
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 00

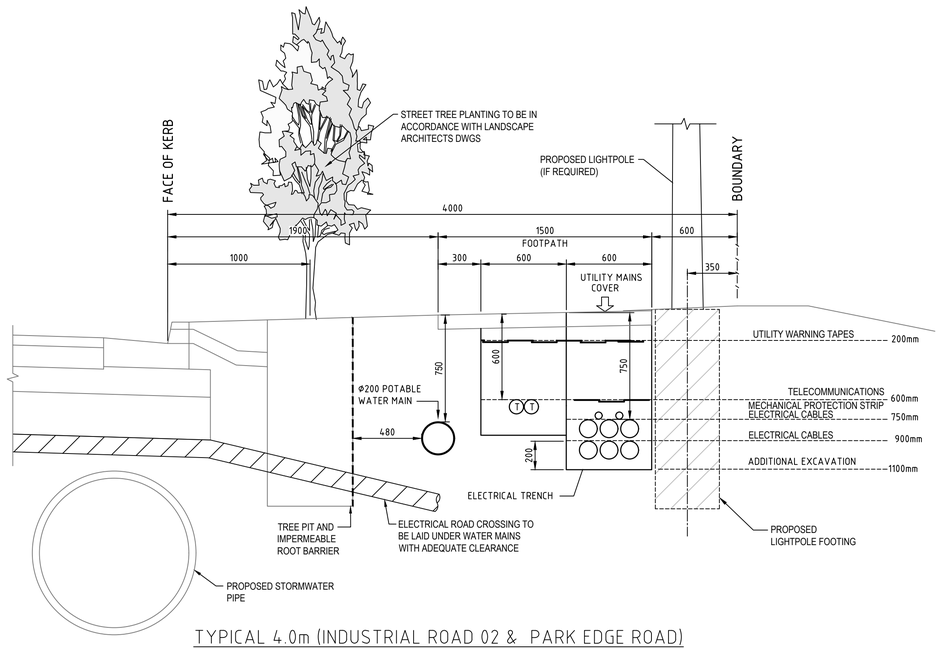
SHEET 4 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 4.0m (INDUSTRIAL ROAD 02 & PARK EDGE ROAD)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 5

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
24	SEWER	15.51m	0.75m	14.53m	OVER
25	ELEC	MIN 1.27m*	0.75m	0.23m*	OVER
26	STORMWATER	1.24m	0.75m	0.26m	OVER
27	STORMWATER	1.60m	0.75m	0.62m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Sydney WATER

Case No. XXXXXXRW SHT 5 OF 5 SHTS.

SYDNEY WATER CORPORATION

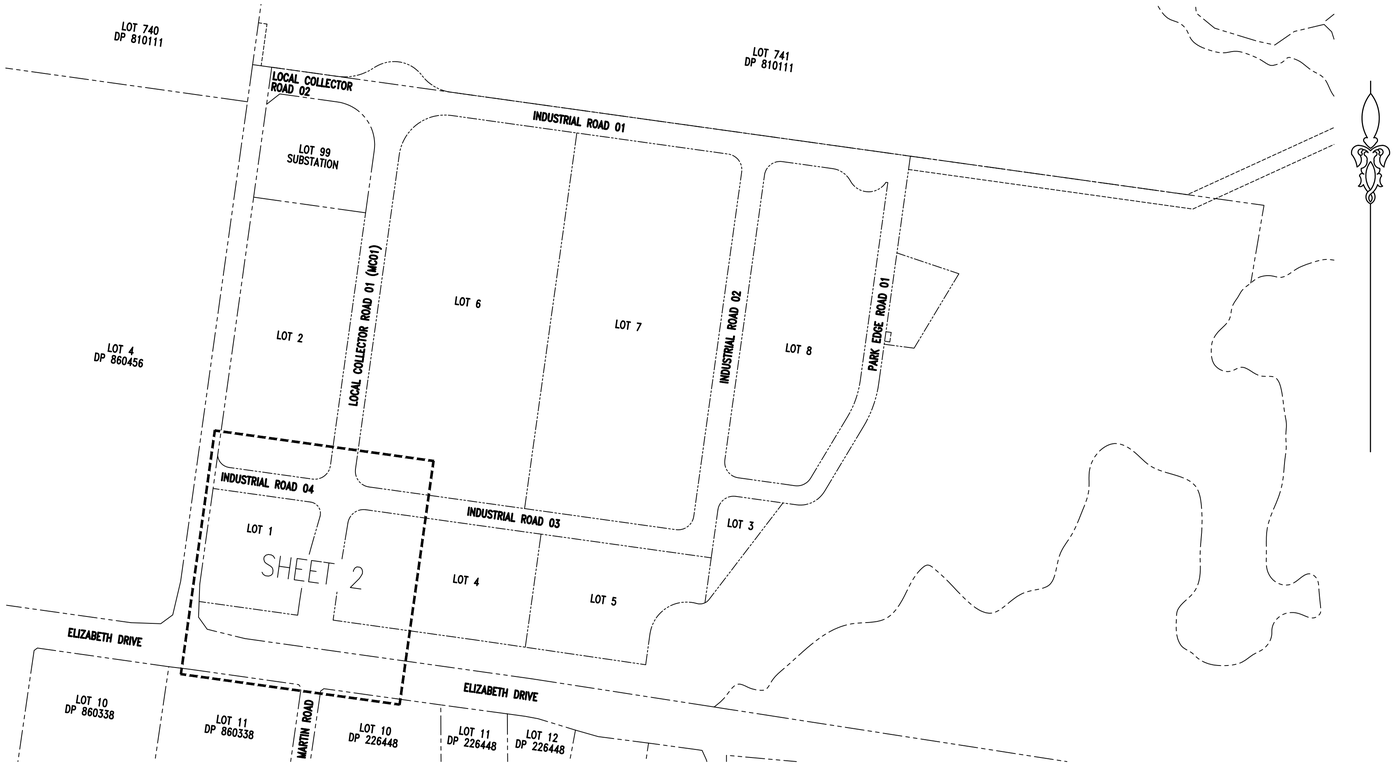
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 00

SHEET 5 OF 5 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS

NOTES :-

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

FOR:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

1. ALL WORKS & MATERIALS ARE TO BE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION – 2014), SYDNEY WATER'S TECHNICAL SPECIFICATION – CIVIL (VERSION 11.0)
2. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
3. THE CONSTRUCTOR IS TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES WITHIN THE VICINITY OF THE WATERMAIN WORKS BY POTHOLING PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO NOTIFY THE W.S.C. SHOULD ANY POTENTIAL CLASHES OCCUR OR MINIMUM CLEARANCES IN ACCORDANCE WITH TABLE 5.5 OF THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014) CANNOT BE ACHIEVED.
4. CONSTRUCTOR TO CONFIRM LEVEL & LOCATION OF ALL EXISTING WATER MAINS AT CONNECTION POINTS PRIOR TO CONSTRUCTION.
5. MAIN TO BE LAID GENERALLY AT MIN. 0.75m COVER BELOW PROPOSED TOP OF KERB EXCEPT WHERE OTHERWISE SHOWN. – REFER TO NOTE 13.
6. MAIN LAYING NOT TO PROCEED PRIOR TO FORMATION OF FOOTWAYS TO FINISHED SURFACE LEVELS.
7. BURIED FITTINGS AND CHANGES OF PIPE TYPE ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE W.S.C. IN ADDITION, SYDNEY WATER CONSTRUCTOR SHALL RECORD AS BUILT DATA AS A MARK-UP ON DESIGN PLAN AND PROVIDE TO W.S.C.
8. SURFACE BOXES LOCATED IN PAVEMENT AREAS ARE TO BE ASPHALTIC/CONCRETE PAVEMENT TYPE BOXES & FITTINGS LOCATED TO ENSURE SURFACE BOXES ARE POSITIONED CLEAR OF PRAM RAMPS.
9. COUNCIL'S TREE PRESERVATION ORDER TO BE STRICTLY ADHERED TO. EXCAVATIONS IN THE VICINITY OF TREES ARE TO BE CARRIED OUT IN ACCORDANCE WITH ARBORIST SPECIFICATIONS AND UNDER THE SUPERVISION OF THE SITE ARBORIST (MANUAL OR HYDRO-EXCAVATION MAY BE REQUIRED).
NOTE: TREES SHOWN ON PLAN BASED ON SURVEYED LOCATIONS. ALL TREES MAY NOT HAVE BEEN SHOWN.
10. ALL PROPERTY (MAIN TO METER) SERVICES MUST BE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METER) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING & DRAINAGE AND AS/NZS3500.
11. MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA AND SYDNEY WATER'S TECHNICAL SPECIFICATION (CIVIL) SHALL BE DETERMINED AND INCLUDED IN THE COMPACTION QUALITY ASSURANCE PLAN WHICH IS TO BE PREPARED BY THE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE.
12. CONSTRUCTOR SHALL COORDINATE AND LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES.
13. MAINS TO BE RELATED TO PROPERTY BOUNDARIES FOR WORK-AS-CONSTRUCTED PURPOSES. FIXTURES, TEES BENDS, EVERY CHANGE OF DIRECTION (VERTICAL OR HORIZONTAL) & PROPERTY SERVICE CONNECTIONS NOT TO BE BACKFILLED UNTIL WAC DETAILS HAVE BEEN OBTAINED AND RECORDED BY THE DESIGNER AND SURVEYED BY SITE SURVEYOR AND APPROVED BY THE WATER SERVICING CO-ORDINATOR. RELEVANT SURVEYED INFORMATION SHALL BE ADDED ON A SITE PLAN BY SURVEYOR AND SUPPLIED TO DESIGNER IN AUTOCAD FORMAT FOR INCLUSION ON THE WAC DRAWINGS. FOR AREAS WHERE MAINS CAN NOT BE TIED TO PROPERTY BOUNDARIES THESE SHALL BE SURVEYED AND COORDINATES PROVIDED TO DESIGNER SO MAINS CAN BE TIED TO SSM OR PM.
14. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. DEFLECTIONS AT PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS, MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS. CONCRETE ENCASEMENT MAY BE REQUIRED ON SECTIONS OF WATERMAIN OTHER THAN WHERE INDICATED. CONDITIONS MAY REQUIRE CONSTRUCTION FOR FOUNDATIONS IN BAD GROUND.
16. WATER MAINS TO BE LAID PRIOR TO THE INSTALLATION OF ALL FUTURE SERVICES. FUTURE SERVICES HAVE NOT BEEN CONFIRMED OR FINALISED AND THEREFORE SHOULD NOT TO BE CONSIDERED. FUTURE SERVICES HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY.
17. ALL ROADS, CHAMBERS, PITS AND SURFACE COVERS PROPOSED FINISHED LEVELS SHALL BE RECONFIRMED AT TIME OF CONSTRUCTION BY MAIN ROAD CONTRACTOR AND ROAD CIVIL DESIGN DRAWINGS.
18. CONSTRUCTOR TO PREPARE A WORK METHOD STATEMENT IN CONJUNCTION WITH THE REVIEW OF ENVIRONMENTAL FACTORS AND SUBMIT TO SWC FOR APPROVAL PRIOR TO COMMENCEMENT.
19. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY DATED 19/12/2011 TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
20. ALL SAFETY PRECAUTIONS TO BE TAKEN FOR ELECTRICAL EARTHING OF BUILDINGS WHEN DISCONNECTING/CONNECTING WATER PROPERTY CONNECTION SERVICES.
21. ALL MAJOR ROAD CROSSINGS SHALL BE INSTALLED WITH A MINIMUM OF 1% GRADE.

DEEMED TO COMPLY :-

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 – ISSUE B 31/07/2024
2.2. REFER DTC 1111 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 – ISSUE C 31/07/2024
2.3. REFER DTC 1112 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C ≤ DN300 TAPERS – ISSUE C 31/07/2024
2.4. REFER DTC 1113 – THRUST BLOCK DETAILS TEES – ISSUE C 31/07/2024
2.5. REFER DTC 1114 – THRUST BLOCK DETAILS HYDRANT BENDS – ISSUE B 31/07/2024
2.6. REFER DTC 1115 – ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES – ISSUE C 31/07/2024
2.7. REFER DTC 1126 – CROSSINGS UNDER OBSTRUCTIONS WATER MAINS ≤ DN300 TYPE 3 TRENCHED INSTALLATION – ISSUE B 31/07/2024

WATER SUPPLY CODE WSA-03 DRAWINGS:

1. REFER TO WAT-1250-S – STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 – VERSION 3 ISSUED 2012
2. REFER TO WAT-1301-V – TYPICAL VALVE & HYDRANT INSTALLATION – VERSION 2 ISSUED 2012
3. REFER TO WAT-1303-V/WAT-1304-V – TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE – VERSION 2 ISSUED 2012
4. REFER TO WAT-1305-V/WAT-1306-V – TYPICAL SURFACE FITTING INSTALLATION HYDRANT – VERSION 3 ISSUED 2013

BEFORE YOU DIG www.byda.com.au
CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

CONTACT BEFORE YOU DIG AUS.
MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

PLAN DRAWN DATE: 07/10/2025 VERSION: 01 SHEET 1 OF 3 SHEETS

No.	AMENDMENT DESCRIPTION	BY	DATE
01	ISSUE FOR APPROVAL – DRAFT	H.J.	07/10/25
00	CONCEPT FOR COORDINATION	H.J.	09/09/25

JOB NO. 16-369 KEMPS CREEK – RECYCLED WATER INTERSECTION DA

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-
DIAL BEFORE YOU DIG Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY Ph. 131 033
GAS JEMENA GAS Ph. 131 909
TELECOMMUNICATIONS TELSTRA Ph. 132 203
NBN Co. Ph. 1800 687 626
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
POTABLE WATER:	07/10/25	AT&L			
PROP RECYCLED WATER:	07/10/25	AT&L			
PROP STORMWATER:	17/09/25	AT&L			
PROP LV/HV:	17/09/25	AT&L			
PROP HV:	17/09/25	AT&L			
PROP NBN:	17/09/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
150	o.P.V.C.	PN16	326.8m	RRJ
100	o.P.V.C.	PN16	5.2m	RRJ

DESIGN HEAD 120 m
BOUNDARY TRAPS ~~REQUIRED~~.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION { HOR. VERT.
CROSS SECTIONS NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 3 File No. .....

Sydney WATER SYDNEY WATER CORPORATION

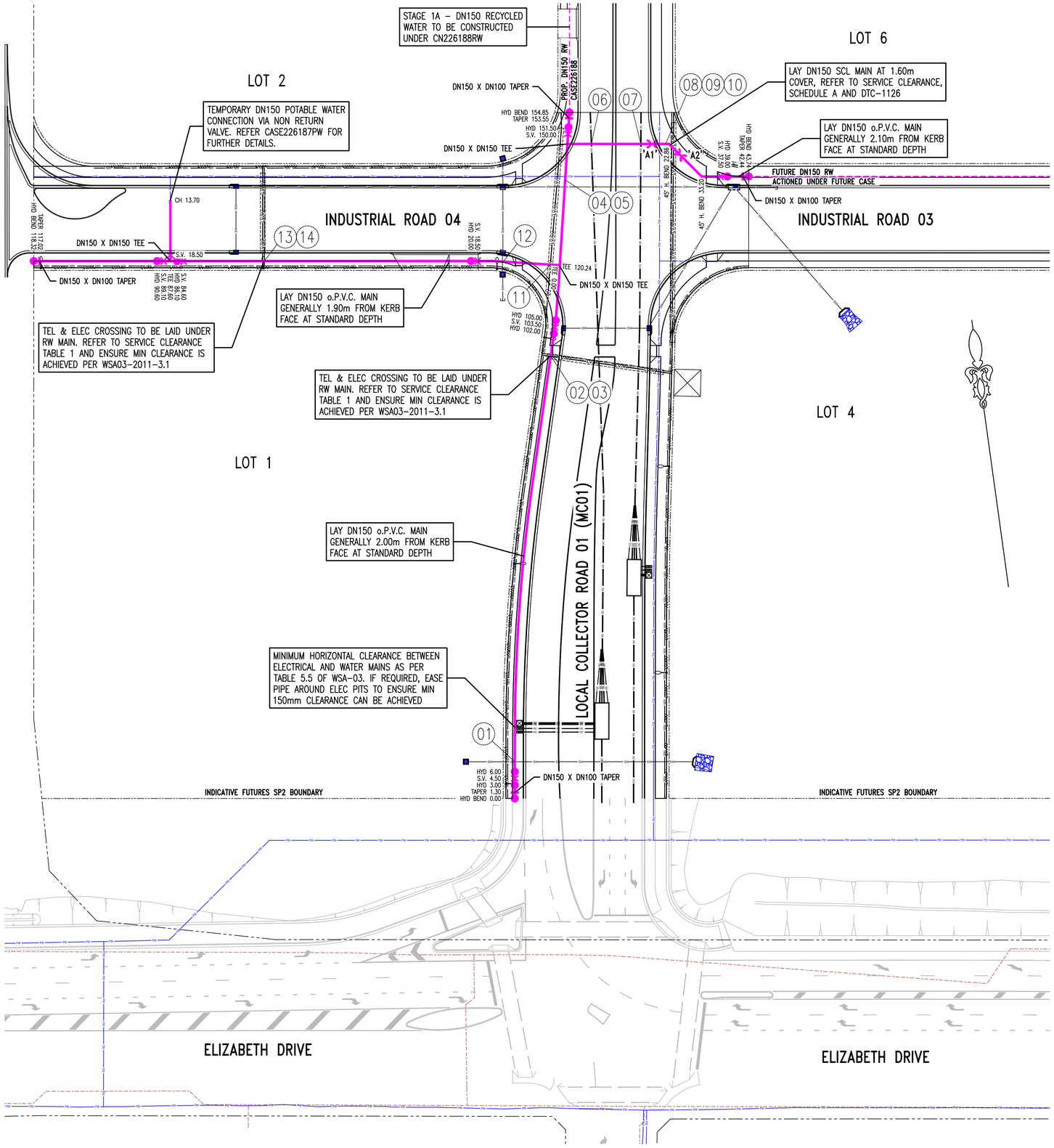
Case No.226187RW

WATERMAIN EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

FILE LOCATION: 16-369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500

SERVICE CLEARANCE TABLE 1

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
01	STORMWATER	1.90m	0.75m	0.98m	OVER
02	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
03	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
04	STORMWATER	1.78m	1.19m	0.41m	OVER
05	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
06	HV ELEC	MIN 1.53m*	0.75m	0.60m*	OVER
07	HV ELEC	MIN 1.53m*	0.75m	0.60m*	OVER
08	POTABLE WATER	0.75m	1.60m	0.31m	UNDER
09	TEL	0.60m	1.60m	0.90m	UNDER
10	ELEC	0.75m	1.60m	0.30m	UNDER
11	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
12	STORMWATER	1.23m	0.75m	0.25m	OVER
13	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
14	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

SCHEDULE A – DTC–1126 UNDERCROSSING

ITEM	"L1"	"Z1"	"X1"	"W1"	"V1"	"R"
"B1" – "B2"	850mm	850mm	1000mm	6486mm	500mm	400mm

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

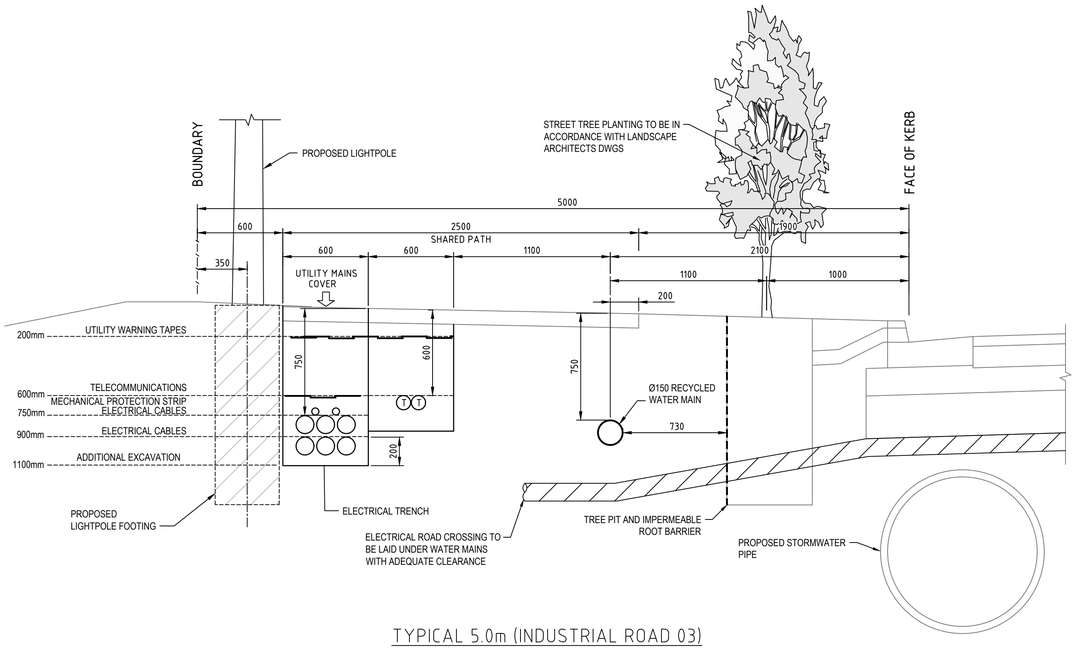
PLAN DRAWN DATE: 07/10/2025 VERSION: 01

SHEET 2 OF 3 SHEETS

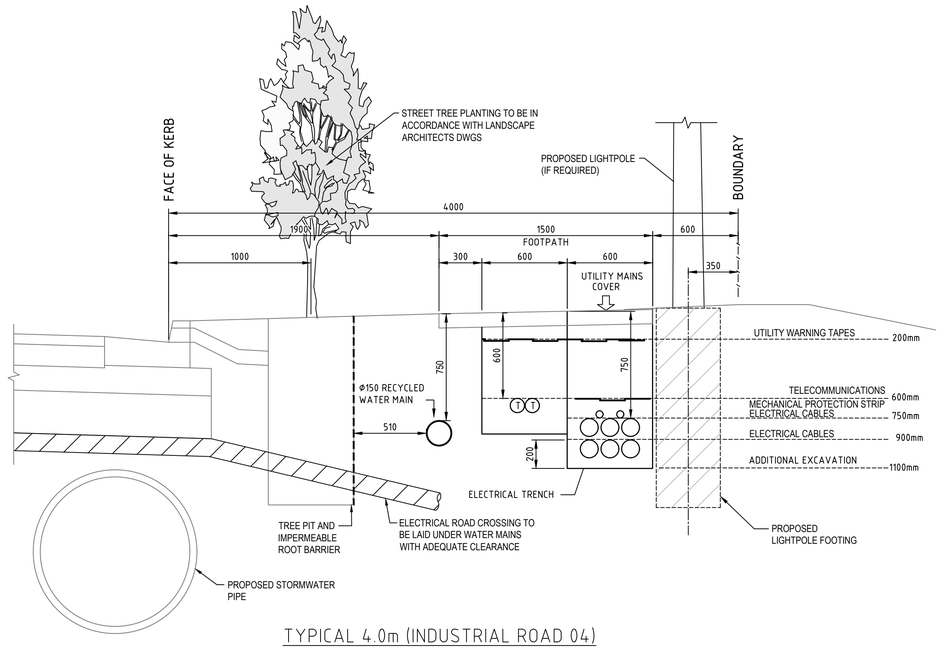
WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. 226187RW | SHT 2 OF 3 SHTS.
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

A1F

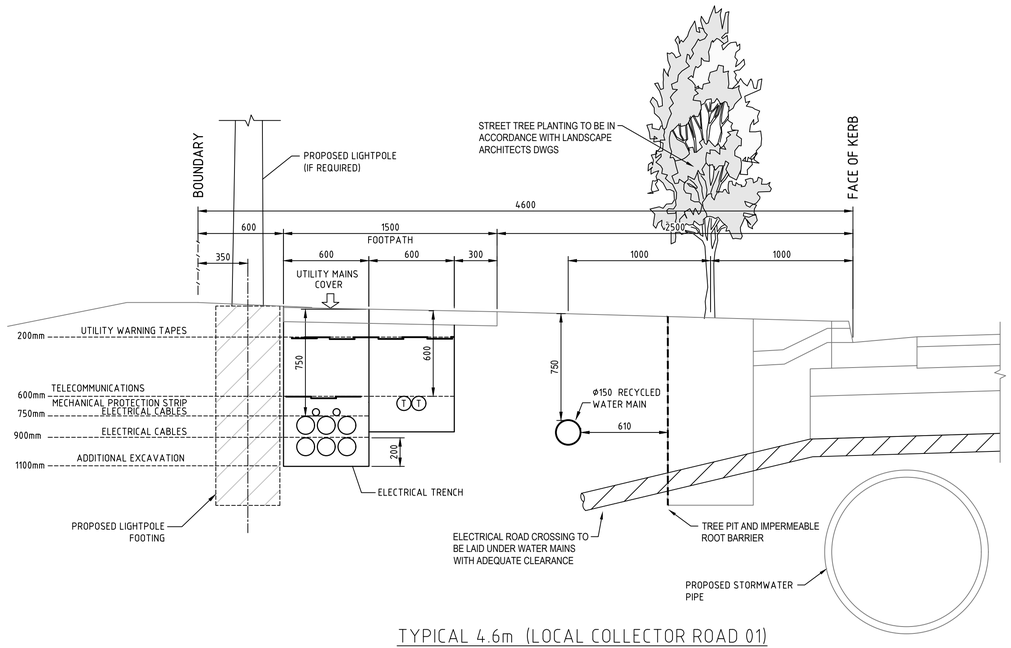
DEVELOPER CONTRACT PLAN



TYPICAL 5.0m (INDUSTRIAL ROAD 03)
VERGE TRENCH DETAIL
NTS



TYPICAL 4.0m (INDUSTRIAL ROAD 04)
VERGE TRENCH DETAIL
NTS



TYPICAL 4.6m (LOCAL COLLECTOR ROAD 01)
VERGE TRENCH DETAIL
SCALE 1:20

DRAFT ONLY

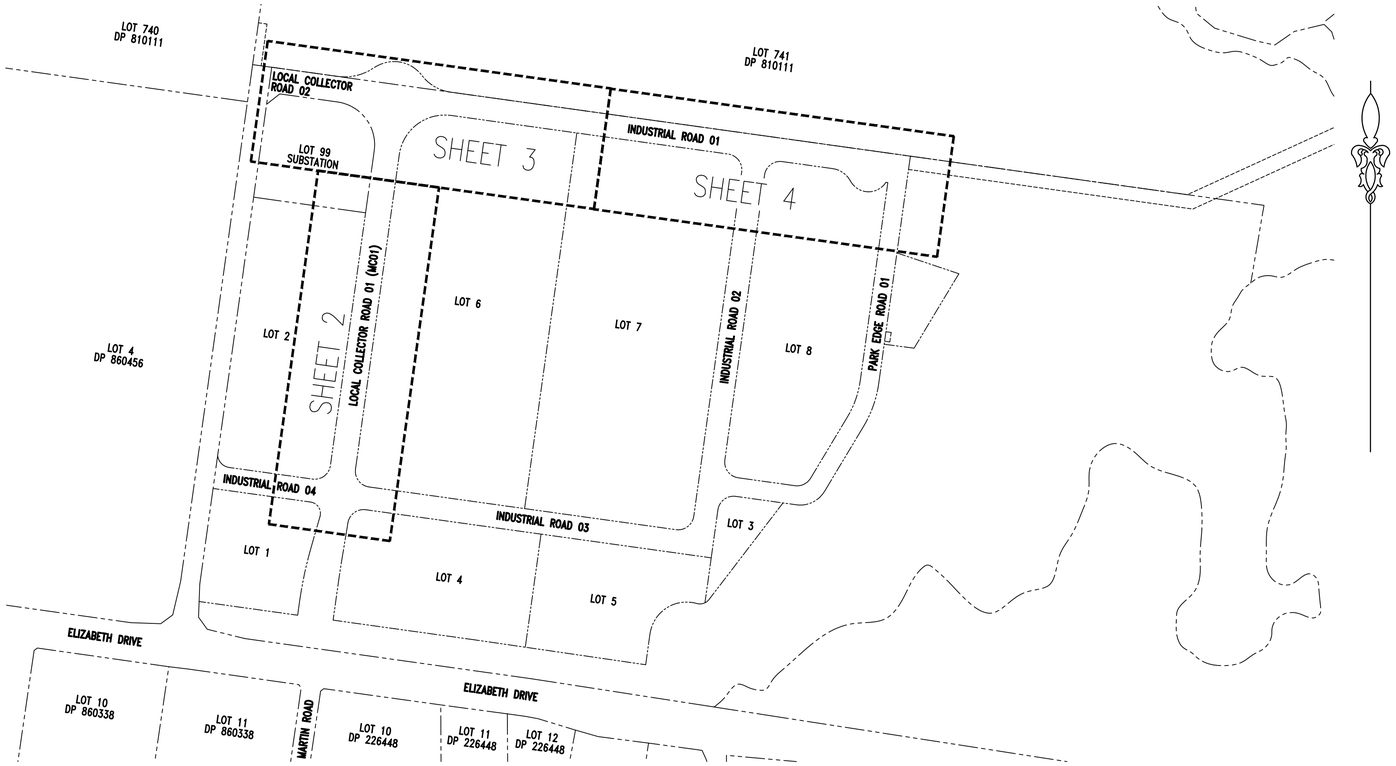
NOT FOR CONSTRUCTION

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. 226187RW | SHT 3 OF 3 SHTS.
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 01 SHEET 3 OF 3 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS

BEFORE YOU DIG
www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

CONTACT BEFORE YOU DIG AUS.

MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

NOTES :-

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

FOR:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

1. ALL WORKS & MATERIALS ARE TO BE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION - 2014), SYDNEY WATER'S TECHNICAL SPECIFICATION - CIVIL (VERSION 11.0)
2. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
3. THE CONSTRUCTOR IS TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES WITHIN THE VICINITY OF THE WATERMAIN WORKS BY POTHOLING PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO NOTIFY THE W.S.C. SHOULD ANY POTENTIAL CLASHES OCCUR OR MINIMUM CLEARANCES IN ACCORDANCE WITH TABLE 5.5 OF THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014) CANNOT BE ACHIEVED.
4. CONSTRUCTOR TO CONFIRM LEVEL & LOCATION OF ALL EXISTING WATER MAINS AT CONNECTION POINTS PRIOR TO CONSTRUCTION.
5. MAIN TO BE LAID GENERALLY AT MIN. 0.75m COVER BELOW PROPOSED TOP OF KERB EXCEPT WHERE OTHERWISE SHOWN. - REFER TO NOTE 13.
6. MAIN LAYING NOT TO PROCEED PRIOR TO FORMATION OF FOOTWAYS TO FINISHED SURFACE LEVELS.
7. BURIED FITTINGS AND CHANGES OF PIPE TYPE ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE W.S.C. IN ADDITION, SYDNEY WATER CONSTRUCTOR SHALL RECORD AS BUILT DATA AS A MARK-UP ON DESIGN PLAN AND PROVIDE TO W.S.C.
8. SURFACE BOXES LOCATED IN PAVEMENT AREAS ARE TO BE ASPHALTIC/CONCRETE PAVEMENT TYPE BOXES & FITTINGS LOCATED TO ENSURE SURFACE BOXES ARE POSITIONED CLEAR OF PRAM RAMPS.
9. COUNCIL'S TREE PRESERVATION ORDER TO BE STRICTLY ADHERED TO. EXCAVATIONS IN THE VICINITY OF TREES ARE TO BE CARRIED OUT IN ACCORDANCE WITH ARBORIST SPECIFICATIONS AND UNDER THE SUPERVISION OF THE SITE ARBORIST (MANUAL OR HYDRO-EXCAVATION MAY BE REQUIRED).
NOTE: TREES SHOWN ON PLAN BASED ON SURVEYED LOCATIONS. ALL TREES MAY NOT HAVE BEEN SHOWN.
10. ALL PROPERTY (MAIN TO METER) SERVICES MUST BE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METER) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING & DRAINAGE AND AS/NZS3500.
11. MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA AND SYDNEY WATER'S TECHNICAL SPECIFICATION (CIVIL) SHALL BE DETERMINED AND INCLUDED IN THE COMPACTION QUALITY ASSURANCE PLAN WHICH IS TO BE PREPARED BY THE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE.
12. CONSTRUCTOR SHALL COORDINATE AND LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES.
13. MAINS TO BE RELATED TO PROPERTY BOUNDARIES FOR WORK-AS-CONSTRUCTED PURPOSES. FIXTURES, TEES BENDS, EVERY CHANGE OF DIRECTION (VERTICAL OR HORIZONTAL) & PROPERTY SERVICE CONNECTIONS NOT TO BE BACKFILLED UNTIL WAC DETAILS HAVE BEEN OBTAINED AND RECORDED BY THE DESIGNER AND SURVEYED BY SITE SURVEYOR AND APPROVED BY THE WATER SERVICING CO-ORDINATOR. RELEVANT SURVEYED INFORMATION SHALL BE ADDED ON A SITE PLAN BY SURVEYOR AND SUPPLIED TO DESIGNER IN AUTOCAD FORMAT FOR INCLUSION ON THE WAC DRAWINGS. FOR AREAS WHERE MAINS CAN NOT BE TIED TO PROPERTY BOUNDARIES THESE SHALL BE SURVEYED AND COORDINATES PROVIDED TO DESIGNER SO MAINS CAN BE TIED TO SSM OR PM.
14. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. DEFLECTIONS AT PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS, MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS. CONCRETE ENCASEMENT MAY BE REQUIRED ON SECTIONS OF WATERMAIN OTHER THAN WHERE INDICATED. CONDITIONS MAY REQUIRE CONSTRUCTION FOR FOUNDATIONS IN BAD GROUND.
16. WATER MAINS TO BE LAID PRIOR TO THE INSTALLATION OF ALL FUTURE SERVICES. FUTURE SERVICES HAVE NOT BEEN CONFIRMED OR FINALISED AND THEREFORE SHOULD NOT TO BE CONSIDERED. FUTURE SERVICES HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY.
17. ALL ROADS, CHAMBERS, PITS AND SURFACE COVERS PROPOSED FINISHED LEVELS SHALL BE RECONFIRMED AT TIME OF CONSTRUCTION BY MAIN ROAD CONTRACTOR AND ROAD CIVIL DESIGN DRAWINGS.
18. CONSTRUCTOR TO PREPARE A WORK METHOD STATEMENT IN CONJUNCTION WITH THE REVIEW OF ENVIRONMENTAL FACTORS AND SUBMIT TO SWC FOR APPROVAL PRIOR TO COMMENCEMENT.
19. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY DATED 19/12/2011 TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
20. ALL SAFETY PRECAUTIONS TO BE TAKEN FOR ELECTRICAL EARTHING OF BUILDINGS WHEN DISCONNECTING/CONNECTING WATER PROPERTY CONNECTION SERVICES.
21. ALL MAJOR ROAD CROSSINGS SHALL BE INSTALLED WITH A MINIMUM OF 1% GRADE.

DEEMED TO COMPLY :-

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 - THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 - ISSUE B 31/07/2024
2.2. REFER DTC 1111 - THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 - ISSUE C 31/07/2024
2.3. REFER DTC 1112 - THRUST BLOCK DETAILS D.I.C.L. & P.V.C ≤ DN300 TAPERS - ISSUE C 31/07/2024
2.4. REFER DTC 1113 - THRUST BLOCK DETAILS TEES - ISSUE C 31/07/2024
2.5. REFER DTC 1114 - THRUST BLOCK DETAILS HYDRANT BENDS - ISSUE B 31/07/2024
2.6. REFER DTC 1115 - ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES - ISSUE C 31/07/2024
2.7. REFER DTC 1122 - MAJOR ROADWAY CROSSINGS WATER MAINS ≤ DN300 STOP VALVES TYPE 3 - ISSUE B 31/07/2024

WATER SUPPLY CODE WSA-03 DRAWINGS:

1. REFER TO WAT-1250-S - STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 - VERSION 3 ISSUED 2012
2. REFER TO WAT-1301-V - TYPICAL VALVE & HYDRANT INSTALLATION - VERSION 2 ISSUED 2012
3. REFER TO WAT-1303-V/WAT-1304-V - TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE - VERSION 2 ISSUED 2012
4. REFER TO WAT-1305-V/WAT-1306-V - TYPICAL SURFACE FITTING INSTALLATION HYDRANT - VERSION 3 ISSUED 2013
5. REFER TO WAT-1850-S - TYPICAL MAINS CONSTRUCTION RETICULATION MAIN ARRANGEMENT FOR DUAL WATER SYSTEMS - VERSION 1 ISSUED 2003

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 1 OF 4 SHEETS

No.	AMENDMENT DESCRIPTION	BY	DATE
00	CONCEPT FOR COORDINATION	H.J.	07/10/25

JOB NO. 16-369 KEMPS CREEK - RECYCLED WATER STAGE 1A

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY	Ph. 131 033
GAS JEMENA GAS	Ph. 131 909
TELECOMMUNICATIONS TELSTRA	Ph. 132 203
NBN Co.	Ph. 1800 687 626

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP RECYCLED WATER:	07/10/25	AT&L			
ADJACENT WATER:	07/10/25	AT&L			
PROP POTABLE WATER:	07/10/25	AT&L			
PROP STORMWATER:	25/10/25	AT&L			
PROP LV/HV:	25/10/25	AT&L			
PROP HV:	25/10/25	AT&L			
PROP NBN:	25/10/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
150	o.P.V.C.	PN16	1145m	RRJ
100	o.P.V.C.	PN16	6.5m	RRJ
OD177	S.C.L.	5PL	51m	WELDED

DESIGN HEAD 120 m
BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION HOR. VERT.
CROSS SECTIONS NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 4 File No.

SYDNEY WATER CORPORATION

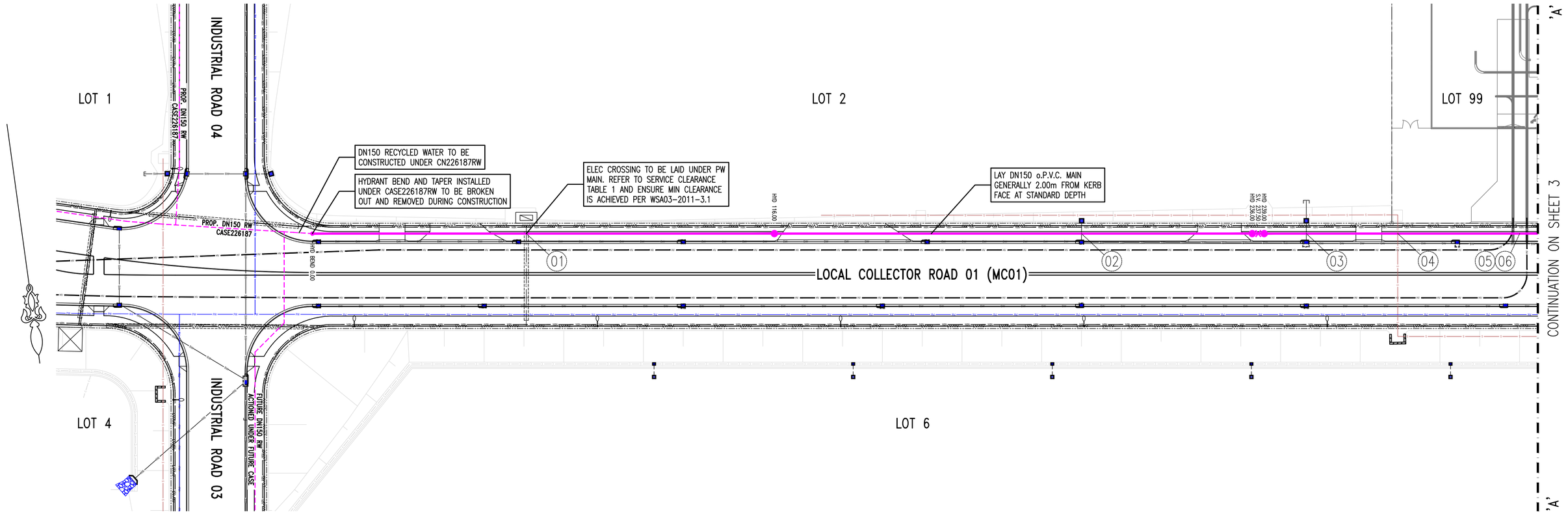
Case No.226188RW

WATERMAIN EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

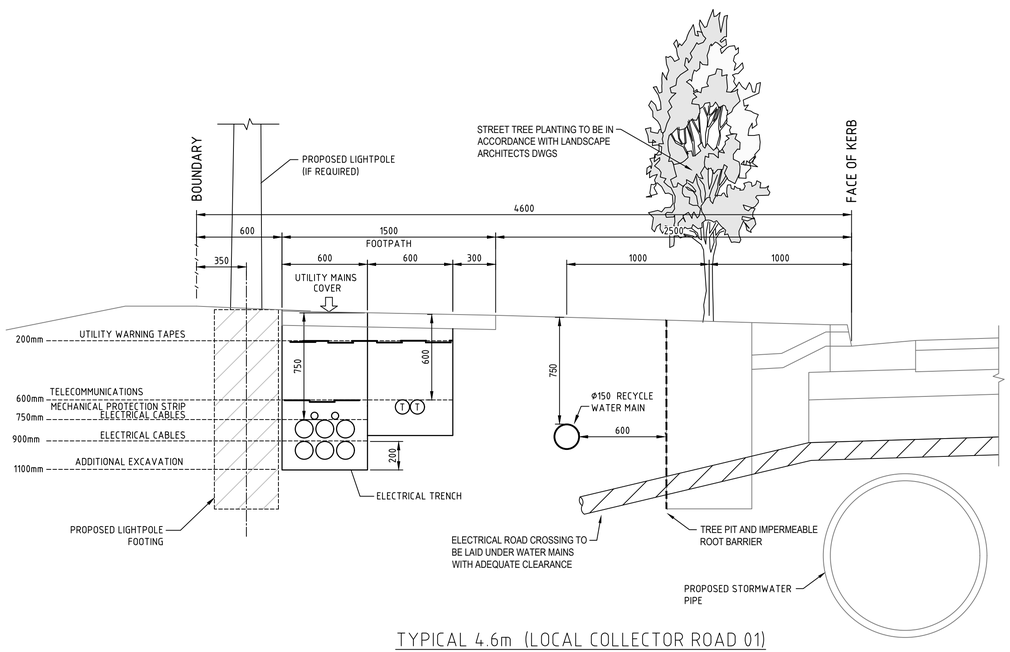
FILE LOCATION: 16-369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 4.6m (LOCAL COLLECTOR ROAD 01)
VERGE TRENCH DETAIL
SCALE 1:20

SERVICE CLEARANCE TABLE 1

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
01	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
02	STORMWATER	TBC*	0.75m	MIN 0.15m*	OVER
03	STORMWATER	1.71m	0.75m	0.78m	OVER
04	SEWER	3.52m	0.75m	2.59m	OVER
05	HV ELEC	MIN 1.53m*	0.75m	0.60m*	OVER
06	HV ELEC	MIN 1.53m*	0.75m	0.60m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. 226188RW | SHT 2 OF 4 SHTS.

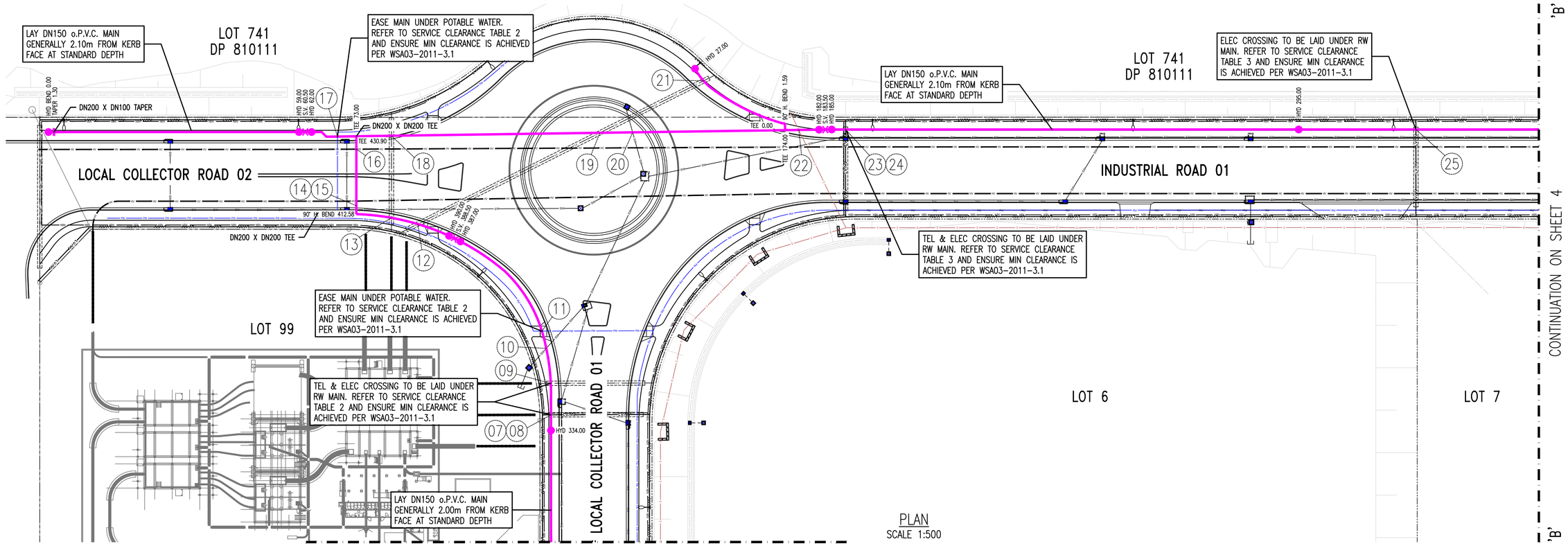
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

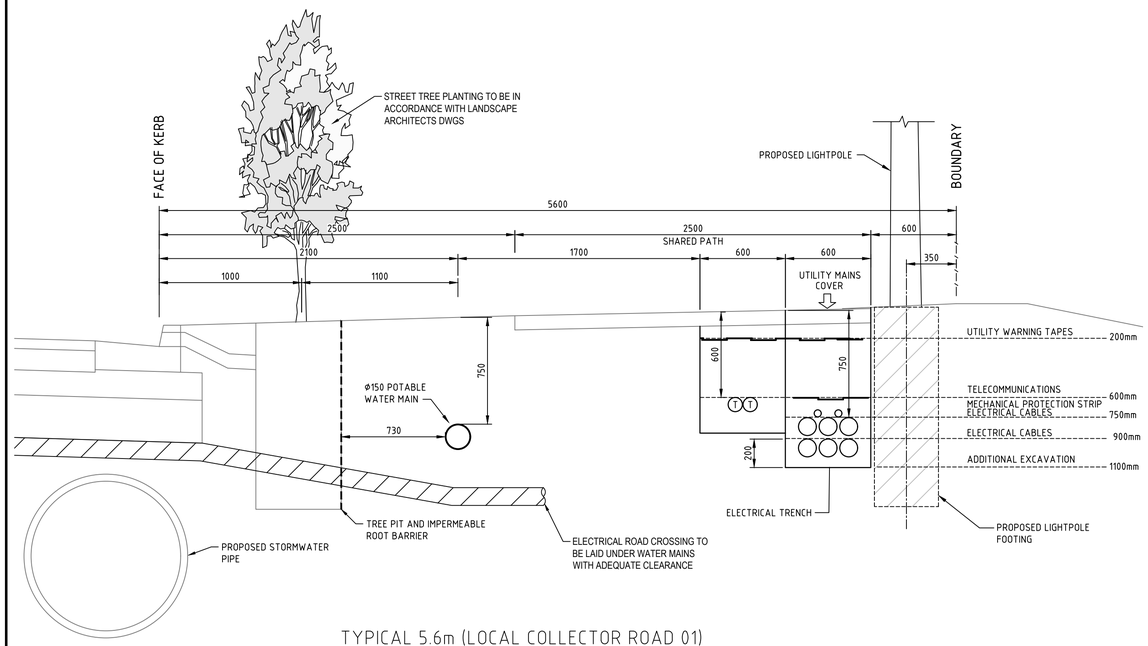
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 2 OF 4 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 5.6m (LOCAL COLLECTOR ROAD 01)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 2

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
07	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
08	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
09	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
10	STORMWATER	1.85m	1.19m	0.48m	OVER
11	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
12	ELEC	MIN 1.54m*	1.13m	0.23m*	OVER
13	ELEC	MIN 1.54m*	1.13m	0.23m*	OVER
14	STORMWATER	1.95m	1.13m	0.64m	OVER
15	HV ELEC	MIN 1.91m*	1.13m	0.60m*	OVER
16	HV ELEC	MIN 1.91m*	1.13m	0.60m*	OVER
17	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
18	ELEC	MIN 1.54m*	1.13m	0.23m*	OVER
19	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

SERVICE CLEARANCE TABLE 3

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
20	STORMWATER	1.79m	0.75m	0.86m	OVER
21	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
22	SEWER	4.28m	0.75m	3.35m	OVER
23	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
24	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
25	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Sydney WATER

Case No. 226188RW | SHT 3 OF 4 SHTS.

SYDNEY WATER CORPORATION

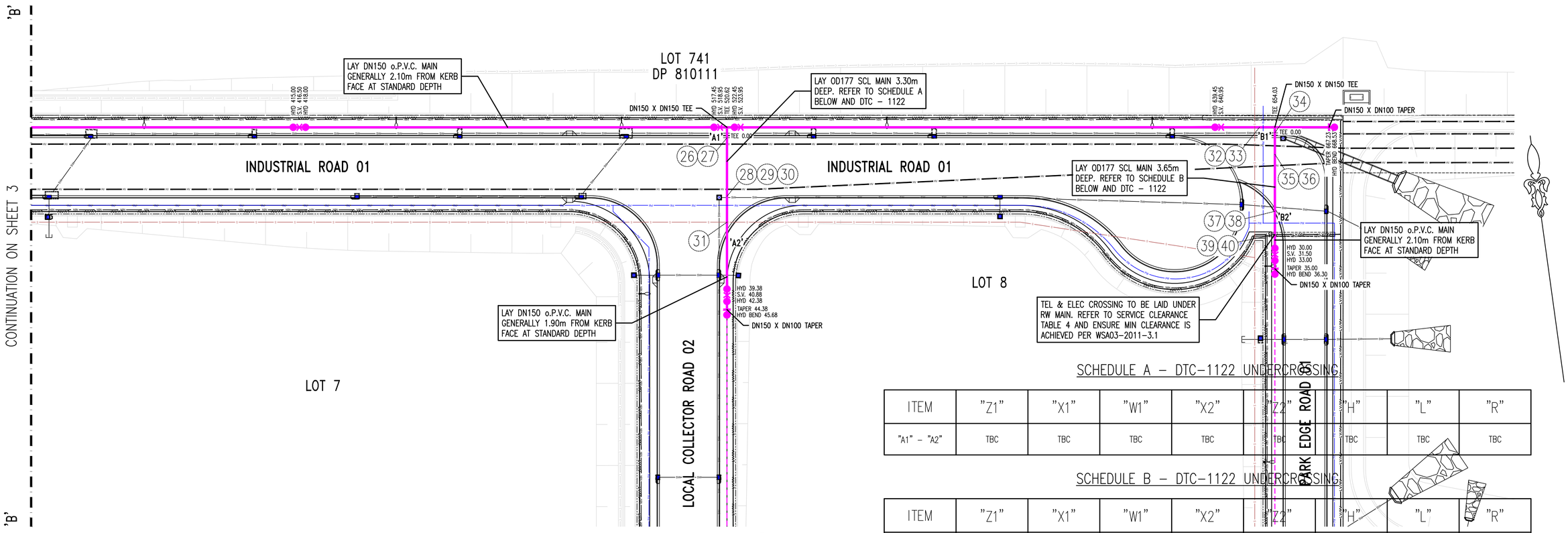
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 00

SHEET 3 OF 4 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500

SCHEDULE A – DTC–1122 UNDERCROSSING

ITEM	"Z1"	"X1"	"W1"	"X2"	"Z2"	"H"	"L"	"R"
"A1" – "A2"	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC

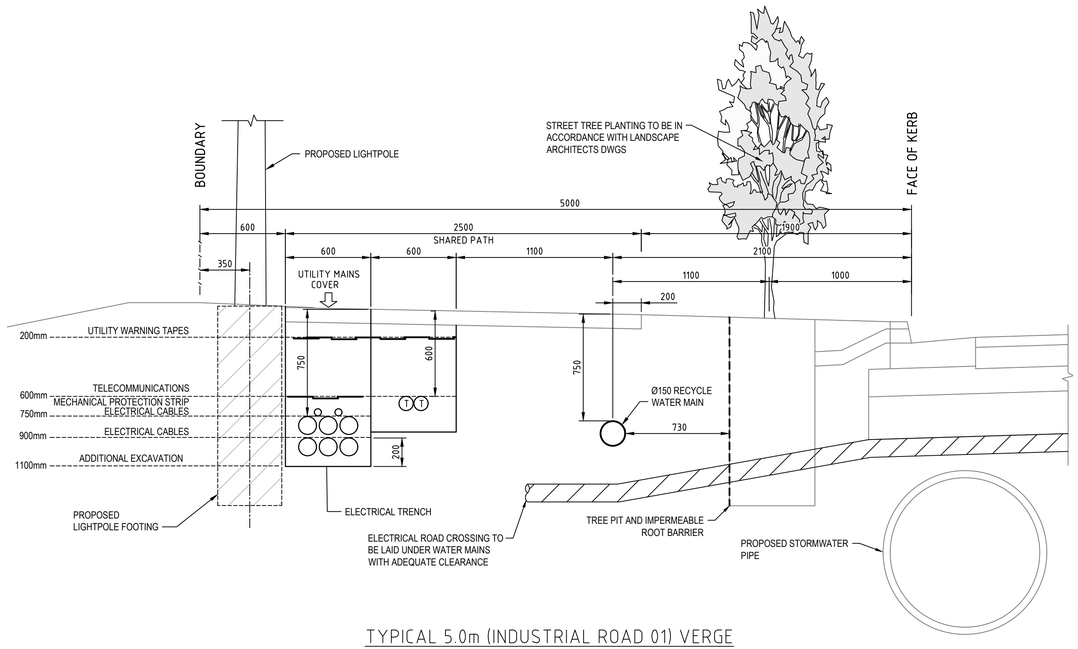
SCHEDULE B – DTC–1122 UNDERCROSSING

ITEM	"Z1"	"X1"	"W1"	"X2"	"Z2"	"H"	"L"	"R"
"B1" – "B2"	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC

SERVICE CLEARANCE TABLE 4

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
26	STORMWATER	0.94m	3.30m	0.30m	UNDER
27	HV ELEC	0.90m*	3.30m	1.67m*	UNDER
28	HV ELEC	0.90m*	3.30m	1.67m*	UNDER
29	STORMWATER	1.75m	1.19m	0.35m	UNDER
30	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
31	SEWER	2.69m	1.19m	1.33m	OVER
32	SEWER	13.02m	1.19m	17..66m	OVER
33	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
34	STORMWATER	1.34m	3.65m	0.30m	OVER
35	HV ELEC	0.90m*	3.65m	2.02m*	OVER
36	HV ELEC	0.90m*	3.65m	2.02m*	OVER
37	STORMWATER	2.09m	3.65m	0.70m	OVER
38	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
39	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
40	TEL	MIN 1.08m*	0.75m	0.15m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS



TYPICAL 5.0m (INDUSTRIAL ROAD 01) VERGE TRENCH DETAIL
NTS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

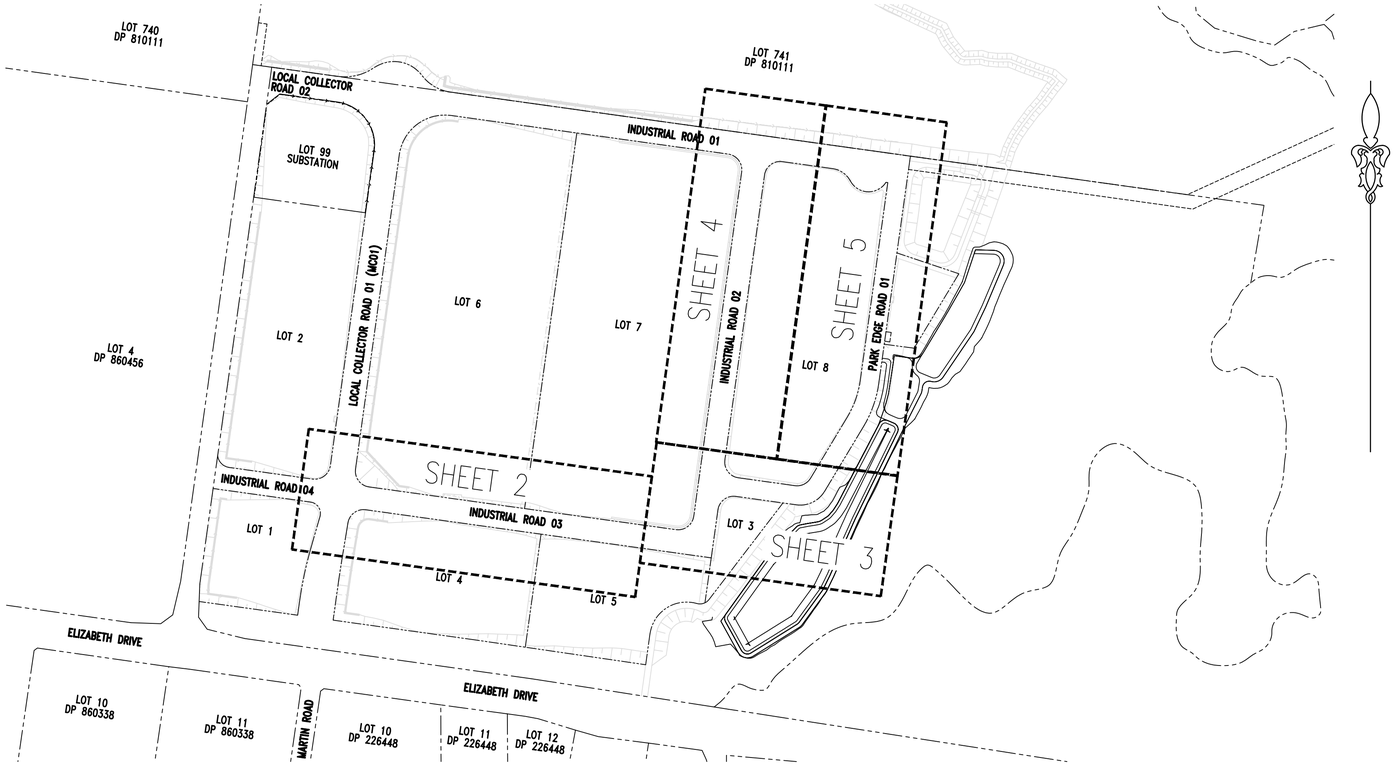
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	Case No. 226188RW | SHT 4 OF 4 SHTS
CONSTRUCTOR	
COMPLETED	
W.A.C. PREPARED	SYDNEY WATER CORPORATION
DESIGNER	FOR DETAILS OF SERVICES SEE SHEET 1
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 4 OF 4 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS

BEFORE YOU DIG
www.byda.com.au
CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

CONTACT BEFORE YOU DIG AUS.

MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

NOTES :-

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

FOR:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

1. ALL WORKS & MATERIALS ARE TO BE IN ACCORDANCE WITH THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION – 2014), SYDNEY WATER'S TECHNICAL SPECIFICATION – CIVIL (VERSION 11.0)
2. ALL SERVICES SHOWN ARE INDICATIVE ONLY. A CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING SERVICES WILL BE REQUIRED PRIOR TO COMMENCEMENT OF ANY WORKS.
3. THE CONSTRUCTOR IS TO DETERMINE THE LOCATION & LEVEL OF EXISTING SERVICES WITHIN THE VICINITY OF THE WATERMAIN WORKS BY POTHOLING PRIOR TO COMMENCEMENT OF ANY WORKS. THE CONSTRUCTOR IS TO NOTIFY THE W.S.C. SHOULD ANY POTENTIAL CLASHES OCCUR OR MINIMUM CLEARANCES IN ACCORDANCE WITH TABLE 5.5 OF THE WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 (SYDNEY WATER EDITION 2014) CANNOT BE ACHIEVED.
4. CONSTRUCTOR TO CONFIRM LEVEL & LOCATION OF ALL EXISTING WATER MAINS AT CONNECTION POINTS PRIOR TO CONSTRUCTION.
5. MAIN TO BE LAID GENERALLY AT MIN. 0.75m COVER BELOW PROPOSED TOP OF KERB EXCEPT WHERE OTHERWISE SHOWN. – REFER TO NOTE 13.
6. MAIN LAYING NOT TO PROCEED PRIOR TO FORMATION OF FOOTWAYS TO FINISHED SURFACE LEVELS.
7. BURIED FITTINGS AND CHANGES OF PIPE TYPE ARE NOT TO BE BACKFILLED UNTIL W.A.C. DETAILS HAVE BEEN OBTAINED & APPROVAL FOR BACKFILLING GIVEN BY THE W.S.C. IN ADDITION, SYDNEY WATER CONSTRUCTOR SHALL RECORD AS BUILT DATA AS A MARK-UP ON DESIGN PLAN AND PROVIDE TO W.S.C.
8. SURFACE BOXES LOCATED IN PAVEMENT AREAS ARE TO BE ASPHALTIC/CONCRETE PAVEMENT TYPE BOXES & FITTINGS LOCATED TO ENSURE SURFACE BOXES ARE POSITIONED CLEAR OF PRAM RAMPS.
9. COUNCIL'S TREE PRESERVATION ORDER TO BE STRICTLY ADHERED TO. EXCAVATIONS IN THE VICINITY OF TREES ARE TO BE CARRIED OUT IN ACCORDANCE WITH ARBORIST SPECIFICATIONS AND UNDER THE SUPERVISION OF THE SITE ARBORIST (MANUAL OR HYDRO-EXCAVATION MAY BE REQUIRED).
NOTE: TREES SHOWN ON PLAN BASED ON SURVEYED LOCATIONS. ALL TREES MAY NOT HAVE BEEN SHOWN.
10. ALL PROPERTY (MAIN TO METER) SERVICES MUST BE CONSTRUCTED TO SYDNEY WATER'S INSTALLATION REQUIREMENTS BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT SYDNEY WATER PROPERTY (MAIN TO METER) SERVICE INSTALLATIONS TECHNICAL REQUIREMENTS, NSW CODE OF PRACTICE FOR PLUMBING & DRAINAGE AND AS/NZS3500.
11. MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE WATER SUPPLY CODE OF AUSTRALIA AND SYDNEY WATER'S TECHNICAL SPECIFICATION (CIVIL) SHALL BE DETERMINED AND INCLUDED IN THE COMPACTION QUALITY ASSURANCE PLAN WHICH IS TO BE PREPARED BY THE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE.
12. CONSTRUCTOR SHALL COORDINATE AND LIAISE WITH ALL RELEVANT SERVICE AUTHORITIES.
13. MAINS TO BE RELATED TO PROPERTY BOUNDARIES FOR WORK-AS-CONSTRUCTED PURPOSES. FIXTURES, TEES BENDS, EVERY CHANGE OF DIRECTION (VERTICAL OR HORIZONTAL) & PROPERTY SERVICE CONNECTIONS NOT TO BE BACKFILLED UNTIL WAC DETAILS HAVE BEEN OBTAINED AND RECORDED BY THE DESIGNER AND SURVEYED BY SITE SURVEYOR AND APPROVED BY THE WATER SERVICING CO-ORDINATOR. RELEVANT SURVEYED INFORMATION SHALL BE ADDED ON A SITE PLAN BY SURVEYOR AND SUPPLIED TO DESIGNER IN AUTOCAD FORMAT FOR INCLUSION ON THE WAC DRAWINGS. FOR AREAS WHERE MAINS CAN NOT BE TIED TO PROPERTY BOUNDARIES THESE SHALL BE SURVEYED AND COORDINATES PROVIDED TO DESIGNER SO MAINS CAN BE TIED TO SSM OR PM.
14. DEFLECTIONS MAY BE ACHIEVED BY EASING MAIN AT PIPE JOINTS & MAY REQUIRE EASING AT MULTIPLE PIPE JOINTS TO ACHIEVE REQUIRED DEFLECTIONS SPECIFIED. DEFLECTIONS AT PIPE JOINTS TO BE LIMITED TO MANUFACTURER LIMITS MINUS 0.5 DEGREES TO BE COMPLIANT WITH SYDNEY WATER STANDARDS.
15. SUBSURFACE CONDITIONS, INCLUDING FILL, GROUNDWATER, CONTAMINATION, AND UNRECORDED BURIED MATERIAL OR OBJECTS, MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT AND APPLICATION OF THE APPROPRIATE CONSTRUCTION METHODS AND STANDARDS. CONCRETE ENCASEMENT MAY BE REQUIRED ON SECTIONS OF WATERMAIN OTHER THAN WHERE INDICATED. CONDITIONS MAY REQUIRE CONSTRUCTION FOR FOUNDATIONS IN BAD GROUND.
16. WATER MAINS TO BE LAID PRIOR TO THE INSTALLATION OF ALL FUTURE SERVICES. FUTURE SERVICES HAVE NOT BEEN CONFIRMED OR FINALISED AND THEREFORE SHOULD NOT TO BE CONSIDERED. FUTURE SERVICES HAVE BEEN SHOWN FOR INFORMATION PURPOSES ONLY.
17. ALL ROADS, CHAMBERS, PITS AND SURFACE COVERS PROPOSED FINISHED LEVELS SHALL BE RECONFIRMED AT TIME OF CONSTRUCTION BY MAIN ROAD CONTRACTOR AND ROAD CIVIL DESIGN DRAWINGS.
18. CONSTRUCTOR TO PREPARE A WORK METHOD STATEMENT IN CONJUNCTION WITH THE REVIEW OF ENVIRONMENTAL FACTORS AND SUBMIT TO SWC FOR APPROVAL PRIOR TO COMMENCEMENT.
19. SYDNEY WATER REQUIREMENTS FOR CONTRACTOR ELECTRICAL SAFETY DATED 19/12/2011 TO BE APPLIED IN CONJUNCTION WITH THE PROJECT SAFETY PLAN AND THE WORK METHOD STATEMENT.
20. ALL SAFETY PRECAUTIONS TO BE TAKEN FOR ELECTRICAL EARTHING OF BUILDINGS WHEN DISCONNECTING/CONNECTING WATER PROPERTY CONNECTION SERVICES.
21. ALL MAJOR ROAD CROSSINGS SHALL BE INSTALLED WITH A MINIMUM OF 1% GRADE.

DEEMED TO COMPLY :-

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SYDNEY WATER DEEMED TO COMPLY GUIDELINES AND DETAILS.
2. CONSTRUCTOR SHALL HAVE A COPY OF THE CURRENT SYDNEY WATER DEEMED TO COMPLY DRAWINGS REFERENCED BELOW AT ALL TIMES & THE DESIGN PLANS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT DEEMED TO COMPLY DETAIL.

2.1. REFER DTC 1110 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 1 – ISSUE B 31/07/2024
2.2. REFER DTC 1111 – THRUST BLOCK DETAILS D.I.C.L. & P.V.C. ≤ DN300 TYPE 2 – ISSUE C 31/07/2024
2.3. REFER DTC 1113 – THRUST BLOCK DETAILS TEES – ISSUE C 31/07/2024
2.4. REFER DTC 1115 – ANCHORAGE DETAILS DICL AND PVC WATER MAINS ≤ DN300 STOP VALVES – ISSUE C 31/07/2024

WATER SUPPLY CODE WSA-03 DRAWINGS:

1. REFER TO WAT-1250-S – STANDARD TRENCH DETAILS TRANSFERS AND DISTRIBUTION MAINS DN100 TO DN375 – VERSION 3 ISSUED 2012
2. REFER TO WAT-1301-V – TYPICAL VALVE & HYDRANT INSTALLATION – VERSION 2 ISSUED 2012
3. REFER TO WAT-1303-V/WAT-1304-V – TYPICAL SURFACE FITTING INSTALLATION SLUICE VALVE – VERSION 2 ISSUED 2012
4. REFER TO WAT-1305-V/WAT-1306-V – TYPICAL SURFACE FITTING INSTALLATION HYDRANT – VERSION 3 ISSUED 2013

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 1 OF 5 SHEETS

No.	AMENDMENT DESCRIPTION	BY	DATE
01	CONCEPT FOR COORDINATION	H.J.	07/10/25

JOB NO. 16-369 KEMPS CREEK – RECYCLED WATER STAGE 1B

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY	Ph. 131 033
GAS JEMENA GAS	Ph. 131 909
TELECOMMUNICATIONS TELSTRA	Ph. 132 203
NBN Co.	Ph. 1800 687 626

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP RECYCLED WATER:	07/10/25	AT&L			
ADJACENT WATER:	07/10/25	AT&L			
PROP POTABLE WATER:	07/10/25	AT&L			
PROP STORMWATER:	25/10/25	AT&L			
PROP LV/HV:	25/10/25	AT&L			
PROP HV:	25/10/25	AT&L			
PROP NBN:	25/10/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
150	o.P.V.C.	PN16	1157m	RRJ

DESIGN HEAD 120 m
BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION { HOR. 1:..... VERT. 1:.....
CROSS SECTIONS ..... NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 5 File No. .....

Sydney WATER SYDNEY WATER CORPORATION

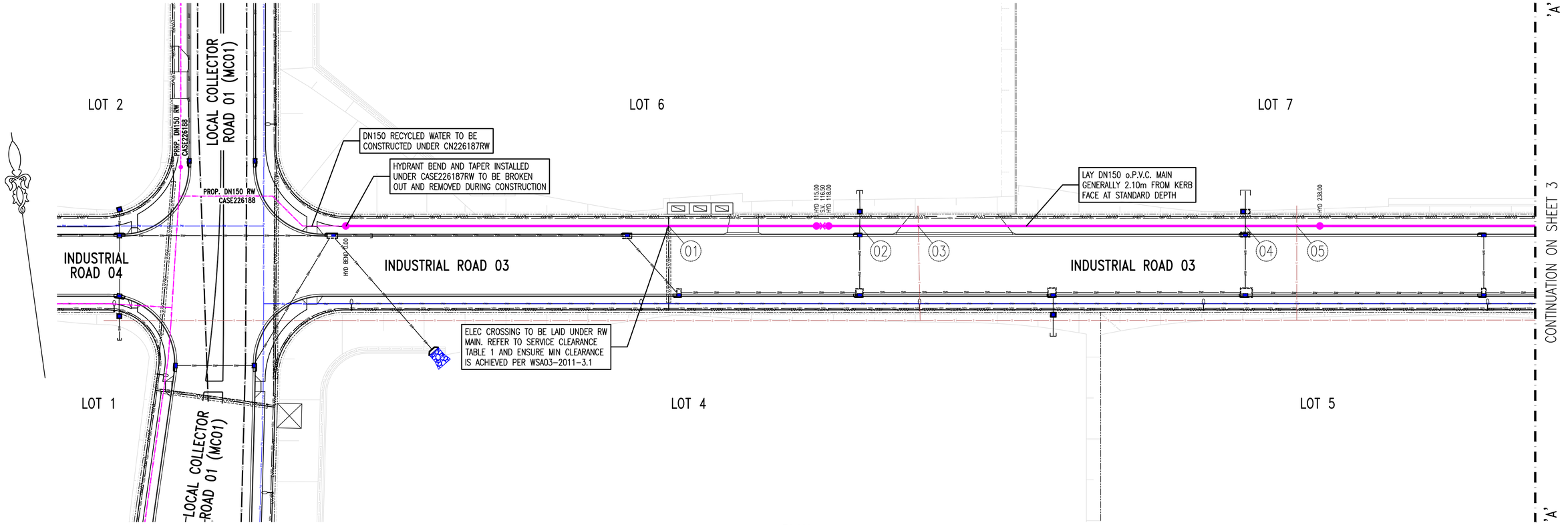
Case No.XXXXXXPW

WATERMAIN EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

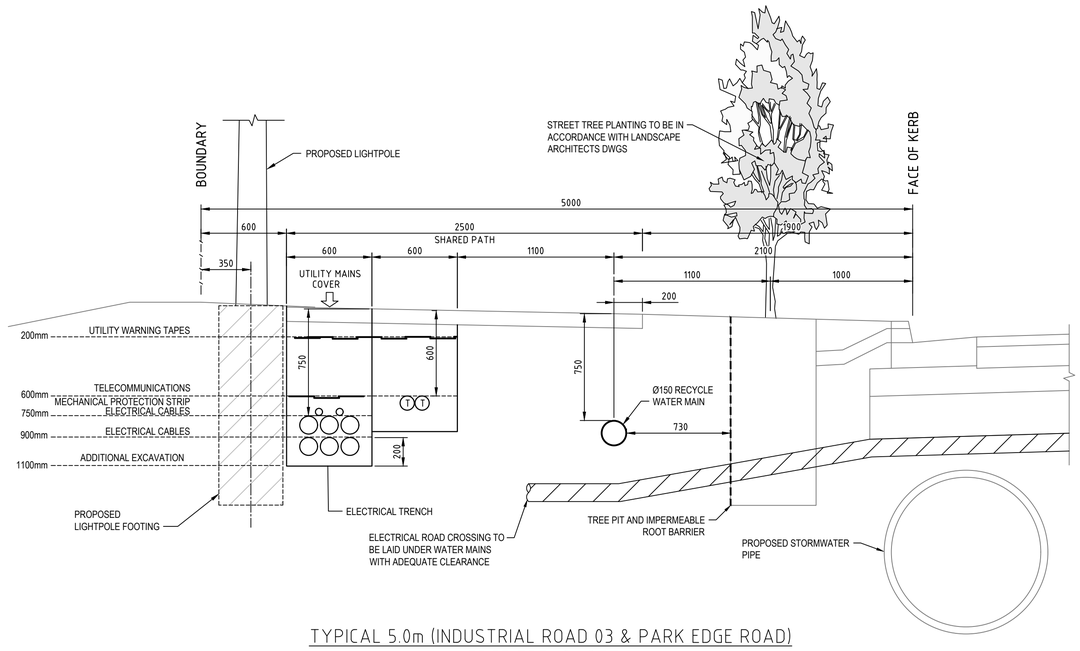
FILE LOCATION: 16-369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 5.0m (INDUSTRIAL ROAD 03 & PARK EDGE ROAD)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 1

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
01	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
02	STORMWATER	1.52m	0.75m	0.59m	OVER
03	SEWER	3.80m	0.75m	2.87m	OVER
04	STORMWATER	1.49m	0.75m	0.56m	OVER
05	SEWER	3.68m	0.75m	2.75m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

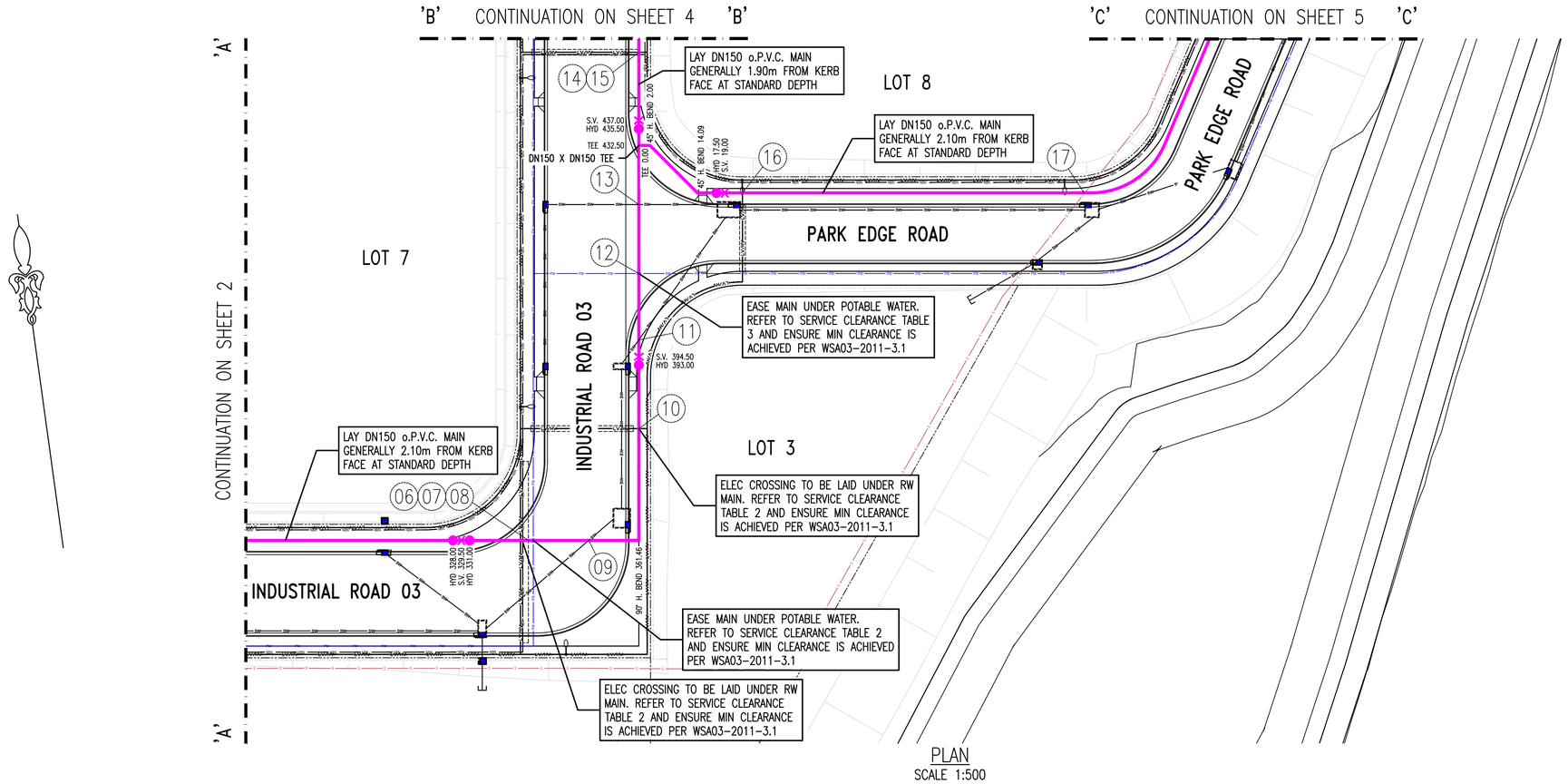
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. XXXXXXRW SHT 2 OF 5 SHTS.
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 2 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500

SERVICE CLEARANCE TABLE 2

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
06	ELEC	MIN 1.59m*	1.19m	0.23m*	OVER
07	TEL	MIN 1.51m*	1.19m	0.15m*	OVER
08	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
09	STORMWATER	1.34m	0.90m	0.28m	OVER
10	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
11	STORMWATER	1.48m	0.90m	0.40m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

SERVICE CLEARANCE TABLE 3

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
12	POTABLE WATER	0.75m	1.19m	0.20m	UNDER
13	STORMWATER	1.65m	0.90m	0.57m	OVER
14	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
15	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
16	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
17	SEWER	5.82m	0.75m	4.89m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Sydney WATER

Case No. XXXXXXRW | SHT 3 OF 5 SHTS

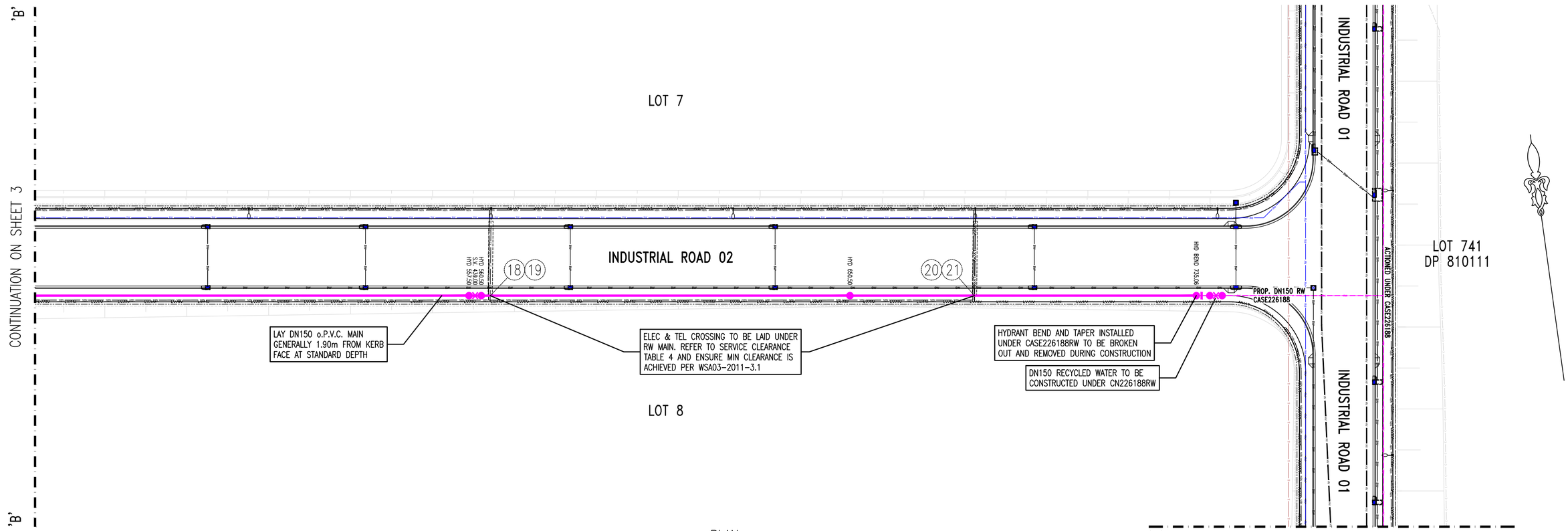
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

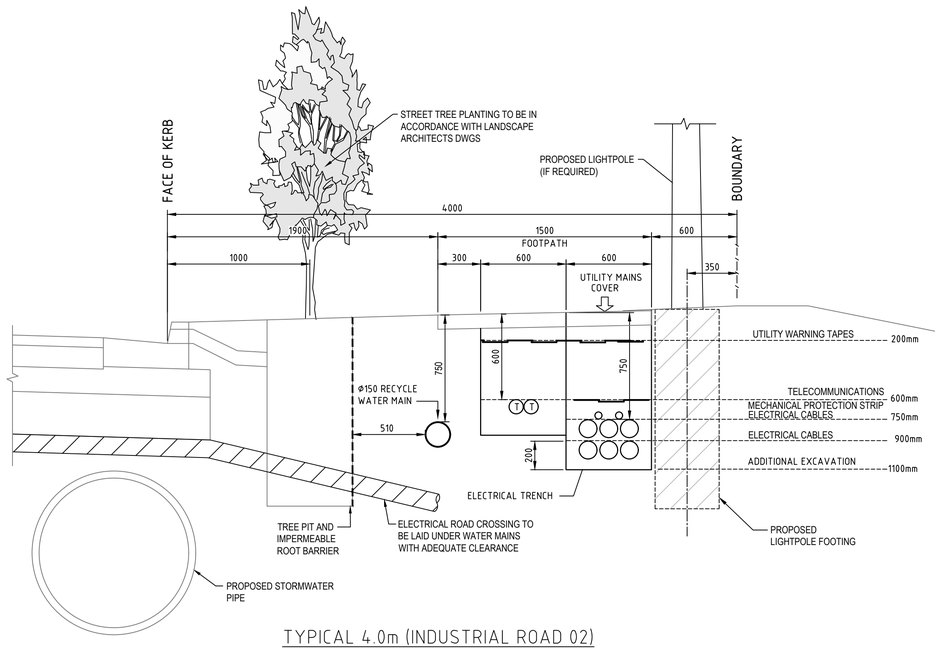
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 3 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 4.0m (INDUSTRIAL ROAD 02)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 4

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
20	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
21	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
22	TEL	MIN 1.08m*	0.75m	0.15m*	OVER
23	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

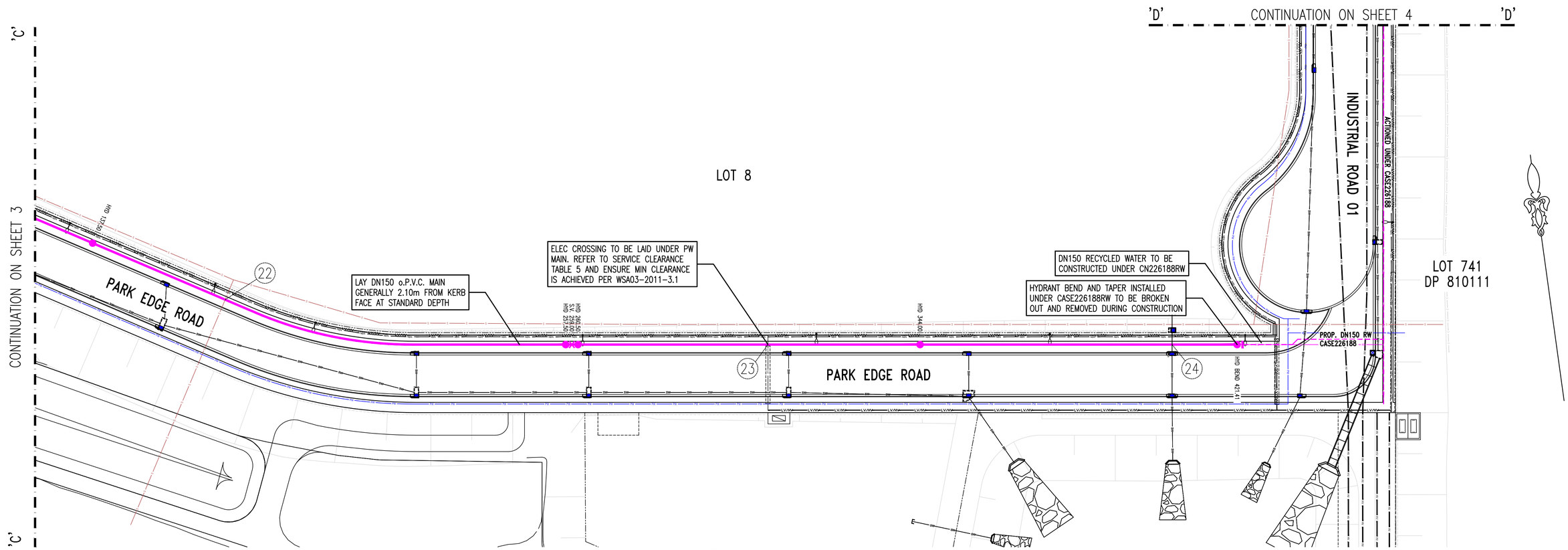
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	Case No. XXXXXXRW SHT 4 OF 5 SHTS
CONSTRUCTOR	
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

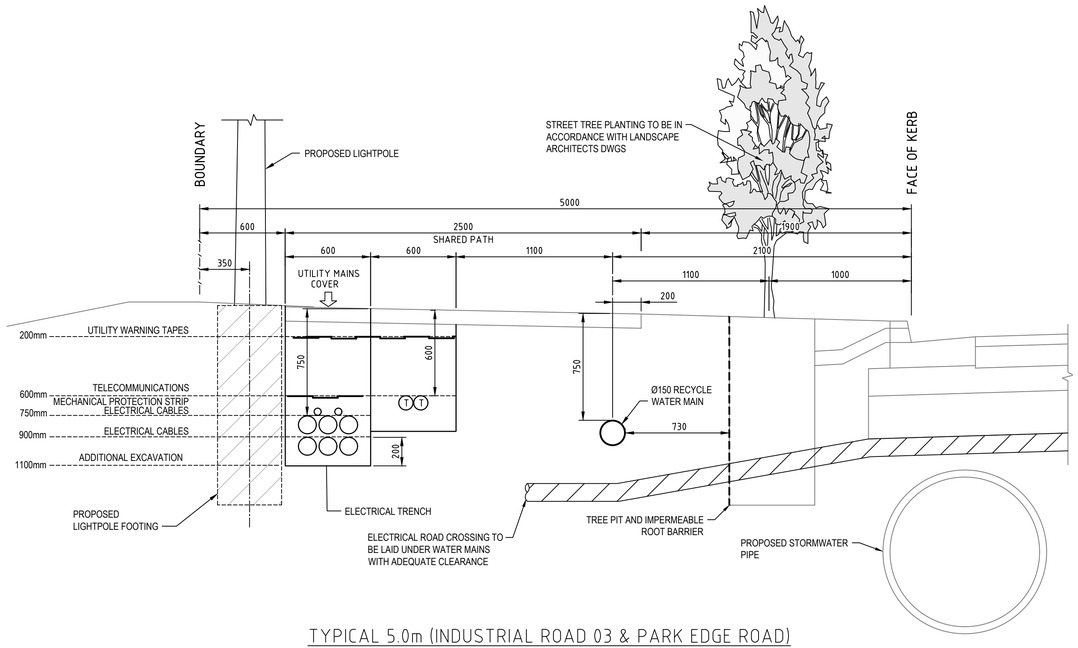
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 4 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



TYPICAL 5.0m (INDUSTRIAL ROAD 03 & PARK EDGE ROAD)
VERGE TRENCH DETAIL
NTS

SERVICE CLEARANCE TABLE 5

ITEM	SERVICE TYPE	SERVICE COVER	WM COVER	CLEARANCE	LAY MAIN OVER OR UNDER
22	SEWER	15.45m	0.75m	14.52m	OVER
23	ELEC	MIN 1.16m*	0.75m	0.23m*	OVER
24	STORMWATER	1.56m	0.75m	0.63m	OVER

*COORDINATION CURRENTLY ONGOING WITH ELECTRICAL AND TELECOMS ENGINEERS

DRAFT ONLY

NOT FOR CONSTRUCTION

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. XXXXXXRW | SHT 5 OF 5 SHTS.

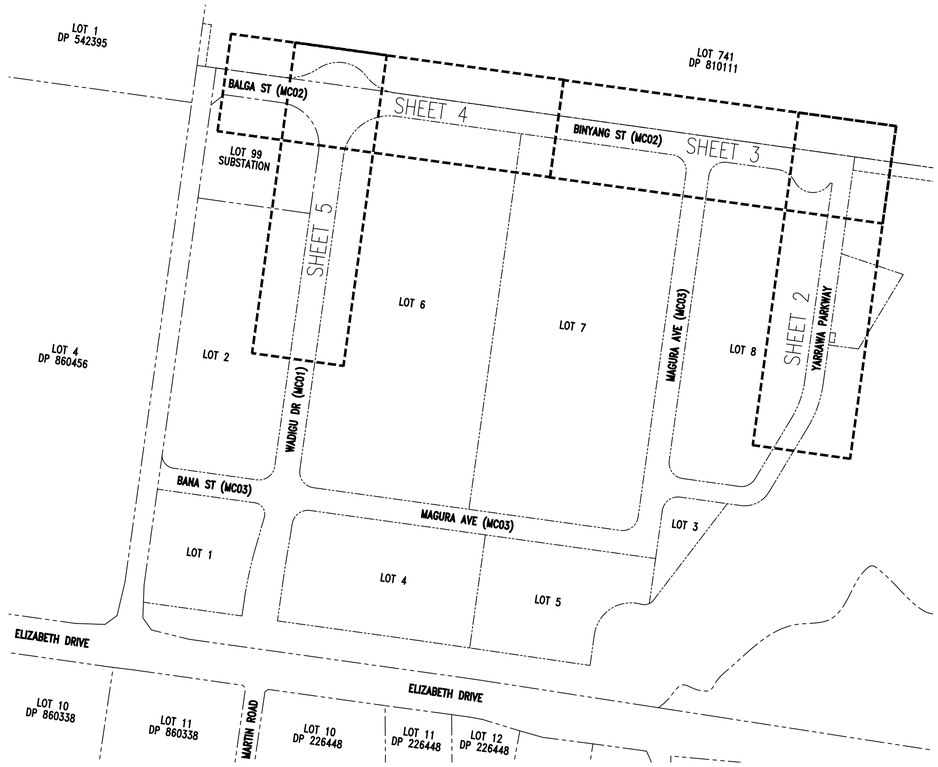
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

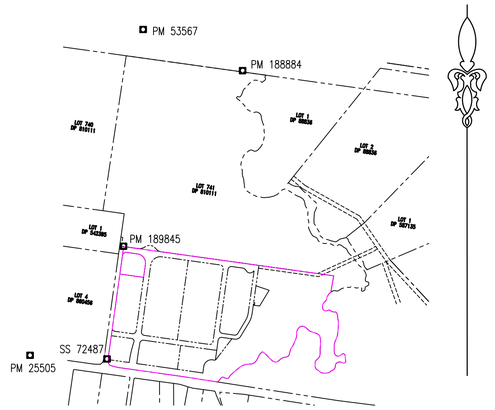
PLAN DRAWN DATE: 07/10/2025 VERSION: 00 SHEET 5 OF 5 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS



ORIGIN OF LEVELS
NTS

M.G.A. TABLE (ZONE 56 GDA2020)

STATION	EASTING	NORTHING	CLASS	COMBINED SCALE FACTOR	SOURCE
PM 25505	292623.697	6249534.735	B	1.000117	S.C.I.M.S (25/08/24)
PM 53567	293180.960	6251139.893	2A	1.000116	S.C.I.M.S (25/08/24)
PM 188884	293671.339	6250937.476	B	1.000115	S.C.I.M.S (25/08/24)
PM 189845	293084.437	6250072.200	B	1.000115	S.C.I.M.S (25/08/24)
SS 72487	293003.000	6249516.553	B	1.000114	S.C.I.M.S (25/08/24)

DRAWING LIST

SHEET NUMBER	SHEET TITLE
1 OF 9	COVER SHEET, LOCALITY AND NOTES
2 OF 9	PLAN & L1 AND CONNECTION LONGSECTION
3 OF 9	PLAN & L1 AND L2 LONGSECTION
4 OF 9	PLAN & L1 AND L3 LONGSECTION
5 OF 9	PLAN & L1 LONGSECTION
6 OF 9	STRUCTURAL MH DESIGN SHEET 1
7 OF 9	STRUCTURAL MH DESIGN SHEET 2
8 OF 9	STRUCTURAL MH DESIGN SHEET 3
9 OF 9	CATCHMENT PLAN & FLOW SCHEDULE

NOTES :–

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

PH:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

1. THE WORKS AND MATERIAL ARE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA (WSA 02–2002–2.2 SYDNEY WATER VERSION 4, 2017) INCLUDING THE SYDNEY WATER SUPPLEMENT AND APPENDICES & THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL, VERSION 11.
2. ALL LOTS WERE VACANT AT TIME OF SURVEY
3. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. AS THE P.F.S.L.'S SHOWN ON THIS PLAN MAY BE SUBJECT TO CHANGE, THE CONSTRUCTOR IS TO LIAISE WITH THE SITE SUPERINTENDENT TO VERIFY ALL FINAL LEVELS AT TIME OF CONSTRUCTION.
4. DRAINAGE LIMITS ARE TO PROPOSED FINISHED SURFACE LEVELS. FOR THE EXTENTS OF THE DRAINAGE LIMITS PLEASE REFER TO THE CATCHMENTS PLAN ON SHEET 7.
5. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
6. EXISTING AND PROPOSED SERVICES ARE INDICATIVE ONLY. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING & PROPOSED SERVICES WILL BE NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE NEED TO BE TAKEN BY THE CONSTRUCTOR WHEN WORKING IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONSTRUCTORS EXPENSE.
7. THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) AND SYDNEY WATERS TECHNICAL SPECIFICATION – CIVIL ARE:

   PIPE EMBEDMENT ZONE: – USING 7mm/10mm/14mm SINGLE SIZE AGGREGATES: XX TESTS REQUIRED
   TRENCH FILL ZONE: – (TWO TEST IN EACH 300mm OF FILL FOR EACH 50 LINEAR METERS): XX TESTS REQUIRED
   M.H. & T.M.S. ZONE (TWO TESTS WITHIN EACH 1.5m DEPTH AT ONE LOCATION NEAR EACH STRUCTURE): XX TESTS REQUIRED

   A COMPACTION QUALITY ASSURANCE PLAN IS TO BE PREPARED BY THE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE. A LEVEL 1 GEOTECHNICAL INSPECTION MUST BE PROVIDED IN ACCORDANCE WITH AS 3798 FOR ALL EARTHWORKS EXCEEDING 3.0m FILL OR BACKFILL THICKNESS.
8. CONSTRUCTOR TO PROVIDE WSC WITH CERTIFIED RED MARKED UP WAC DRAWINGS SHOWING ACCURATE DISTANCES OF PCP'S TO CENTRE OF DOWNSTREAM STRUCTURES, ACCURATE DISTANCE OF PCP ALONG PCP AND CHAINAGES OF CONCRETE ENCASED SECTIONS.
9. SEWER ENDS NOT TO BE BACKFILLED UNTIL LOCATION & INVERT LEVEL HAVE BEEN OBSERVED & APPROVAL TO BACKFILL RECEIVED FROM THE W.S.C.
10. LOCATION OF SEWER LINES TO BE MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION
11. EMBEDMENT MATERIAL SHALL COMPLY TO WSA–PS–350 OR WSA–PS–351
12. ALL MH'S TO BE CONSTRUCTED IN ACCORDANCE WITH DTC–2000, DTC–2202, DTC–2220, DTC–2221, DTC–2222 & DTC–2223 UNLESS OTHERWISE INSTRUCTED.
13. SUBSURFACE CONDITIONS, INCLUDING GROUNDWATER, CONTAMINATION, UNRECORDED BURIED MATERIAL OR OBJECTS AND ARCHAEOLOGICAL SIGNIFICANT ITEMS MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL, GEOTECHNICAL OR ARCHAELOGICAL ASSESSMENT AND APPLICATION OF APPROPRIATE CONSTRUCTION METHODS AND STANDARDS.
14. MINIMUM ALLOWABLE BEARING PRESSURE (AHBP) OF FOUNDATION MATERIAL FOR ALL MAINTENANCE HOLES BUILT TO DTC–2202 SHALL BE 100kPa FOR DEPTH LESS THAN 10m. FOUNDATION MATERIAL TO BE INSPECTED BY A SUITABLY EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO PLACING BLINDING CONCRETE & CERTIFICATION PROVIDED TO WSC.
15. ALL MH LIDS TO BE CONSTRUCTED 150mm ABOVE 1:100 FLOOD LEVEL. REFER TO WSA CODE.
16. ACCESS TO ALL SYDNEY WATER ASSETS MUST BE MAINTAINED FOR SYDNEY WATER PERSONNEL AT ALL TIMES. IF ASSETS ARE LOCATED WITHIN CONSTRUCTION AREAS WHERE ACCESS MUST BE LIMITED FOR SAFETY REASONS SYDNEY WATER MUST BE NOTIFIED OF A SUITABLE 24/7 CONTACT TO ARRANGE ACCESS IF NECESSARY.
17. CORROSION PROTECTION SHALL BE PROVIDED TO INTERNAL FACES OF ALL MANHOLES. CORROSION PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH WSA 201 MANUAL AND SYDNEY WATER SUPPLEMENT TO WSA 201. PROTECTIVE SYSTEM SHALL BE CPL, NOV OR EUH.
18. ALL PROPERTY CONNECTIONS (DN225 PCS) TO BE INSTALLED AS PER SEW–1151–S WITH INSPECTION OPENING (I.O) EXTENDED TO SURFACE LEVEL.
19. PIPES TO BE CONCRETE ENCASED (SUPPORT TYPE 12u) SHOWN ACCORDINGLY: CONC. ENCASE
20. DRAINAGE LIMITS ARE TO PROPOSED FINISHED SURFACE LEVELS. AREAS HATCHED THUS NOT DRAINED.
21. NON–DETECTABLE TAPE IS TO BE LAID ON TOP OF PIPE EMBEDMENT MATERIAL FOR ALL SEWER MAINS, INCLUDING PROPERTY CONNECTION SEWERS.
22. CONSTRUCTOR TO ENSURE CONSTRUCTION METHODOLOGY IS SUITABLE FOR CONSTRUCTION WORKS UNDER TRANSMISSION POWER LINES AS INDICATED ON PLAN AND LONGSECTIONS. CONSTRUCTOR TO OBTAIN APPROVAL TO WORK WITHIN TRANSGRID'S EASEMENT PRIOR TO ENTERING EASEMENT AND/OR COMMENCEMENT OF WORKS.
23. PLAN HAS BEEN PREPARED TO GDA2020.
24. BUILDING OVER/ADJACENT TO SEWER. CONDITIONS APPLY. REFER TO TAP–IN.
25. CUSTOMER DRAIN CONNECTIONS CONSTRUCTED CONCURRENTLY WITH THE NEW SEWER MUST BE CONSTRUCTED BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZS3500. THE CUSTOMER DRAIN RISER MUST NOT EXTEND TO THE SURFACE. A MINIMUM OF 500mm COVER MUST BE MAINTAINED TO PROTECT THE RISER & JUNCTION FROM DAMAGE. THE CUSTOMER DRAIN CONNECTION MUST BE INSPECTED BY A N.S.W. FAIR TRADING PLUMBING INSPECTION ASSURANCE SERVICE (PIAS) OFFICER PRIOR TO BACKFILL.
26. ALL SEWER SETOUT & WORK AS CONSTRUCTED SURVEY TO BE UNDERTAKEN BY A REGISTERED SURVEYOR WITH AN ACCURACY OF +/– 5mm.
27. CONNECTION TO IOP TO BE CONSTRUCTED AS PER CN214103WW & IOP SPECIFICATIONS. CONNECTION TO IOP TO BE CONFIRMED BY WSC PRIOR TO CONSTRUCTION.
28. THE INTRALOT DRAINAGE TO BE FINALISED IN FUTURE. NO CLASH STUDY WAS CARRIED OUT WITH INTRALOT DRAINAGE IN THIS DESIGN.
29. MAINTENANCE HOLES WITH THE DROPS TO BE EXTERNAL DROPS AS PER DTC–2221.

THE PROPOSED WORKS AS DETAILED HERE MUST BE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATERS STANDARD AND SPECIFICATIONS AS OUTLINED IN THE NOTES AND REFERENCED IN THESE DRAWINGS.

THE CONSTRUCTOR IS TO HOLD CURRENT STAMPED VERSIONS OF THESE PLANS, ALONG WITH THE FOLLOWING STANDARDS ON SITE AVAILABLE FOR REFERENCE AT ALL TIMES:

1. WSA 02–2002–2.2 – SEWERAGE CODE OF AUSTRALIA (SYDNEY WATER EDITION VERSION 4, 2017);
2. SYDNEY WATER'S DEEMED TO COMPLY DWGS:
   - DTC–2000 (REV. D 31/07/24),
   - DTC–2200 (REV. G 31/07/24),
   - DTC–2220 (REV. E 31/07/24),
   - DTC–2221 (REV. D 31/07/24),
   - DTC–2222 (REV. D 31/07/24),
   - DTC–2223 (REV. C 31/07/24),
   - DTC–2224 (REV. A 31/07/24),

LEGEND

- DN1200 MH TO BE CONSTRUCTED IN ACCORDANCE WITH DTC–2200
- MH TO BE CONSTRUCTED IN ACCORDANCE WITH CERTIFIED SITE SPECIFIC DESIGN – SHEETS 6, 7 & 8

MAINTENANCE STRUCTURE SCHEDULE

Line No	Chainage	Structure Type	DN Riser	Class of Cover	Material	Comments	(MGA) Easting	(MGA) Northing
1	0.00	MH	1200	D	CAST IN–SITU	CUSTOM MH	293681.2992	6249700.5538
1	37.51	MH	1200	D	CAST IN–SITU	CUSTOM MH	293696.3840	6249734.8929
1	108.09	MH	1200	D	CAST IN–SITU	CUSTOM MH	293706.5156	6249804.7432
1	145.98	MH	1200	D	CAST IN–SITU	CUSTOM MH	293711.7400	6249842.2744
1	250.72	MH	1200	D	CAST IN–SITU	CUSTOM MH	293726.1809	6249946.0153
1	309.06	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293670.3886	6249963.0700
1	361.87	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293618.0162	6249969.8559
1	422.16	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293558.3716	6249978.6687
1	539.85	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293441.8093	6249994.9004
1	632.15	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293350.3971	6250007.6298
1	712.76	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293270.5557	6250018.7479
1	734.78	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293248.7871	6250015.3913
1	759.90	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293228.9882	6249999.9335
1	784.68	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293220.1075	6249976.7971
1	845.93	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293211.6629	6249916.1320
1	875.33	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293182.5434	6249920.1855
1	910.18	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293177.7400	6249885.6780
1	995.10	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293166.0310	6249801.5623
2	51.20	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293733.2396	6249996.7236
3	32.33	MH	1200	D	CAST IN–SITU	DTC–2200 ISSUE G 31–07–24	293260.1302	6250049.3550

CONTACT BEFORE YOU DIG AUS.

MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

BEFORE YOU DIG www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

No.	AMENDMENT DESCRIPTION	BY	DATE
00	CONCEPT FOR COORDINATION	H.J.	17/10/25

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-

DIAL BEFORE YOU DIG	Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY	Ph. 131 033
GAS JEMENA GAS	Ph. 131 909
TELECOMMUNICATIONS TELSTRA	Ph. 132 203
NBN Co.	Ph. 1800 687 626

GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP SEWER:	17/10/25	AT&L			
ADJACENT SEWER:	17/10/25	AT&L			
PROP WATER:	07/10/25	AT&L			
PROP RECYCLED WATER:	07/10/25	AT&L			
PROP STORMWATER:	25/10/25	AT&L			
PROP LV/HV:	25/10/25	AT&L			
PROP HV:	25/10/25	AT&L			
PROP NBN:	25/10/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
225	u.P.V.C.	SN8	1079m	RRJ

DESIGN HEAD .:.... m

BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES

PLAN 1:500 SECTION { HOR. 500 / VERT. 125

CROSS SECTIONS ..... NATURAL

LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY ..... Map 225, F14 (41ST ED)

SHEET ..1.. OF ..9.. File No. .....

SYDNEY WATER CORPORATION

Case No.226188WW

WASTEWATER EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

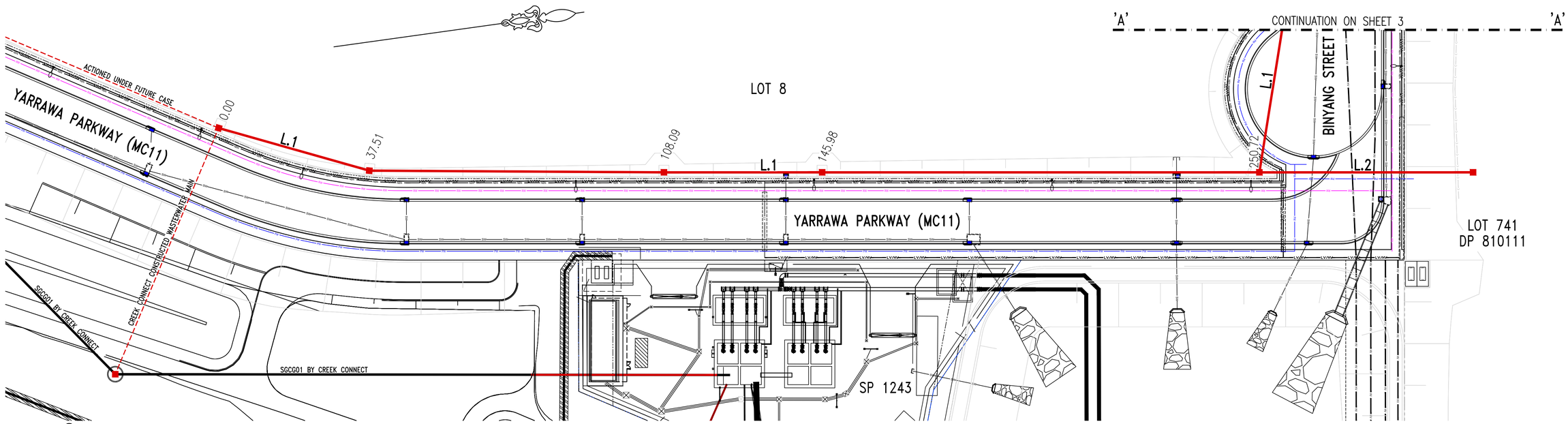
JOB NO. 16-369 KEMPS CREEK – WASTEWATER STAGE 1A

FILE LOCATION: 16–369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

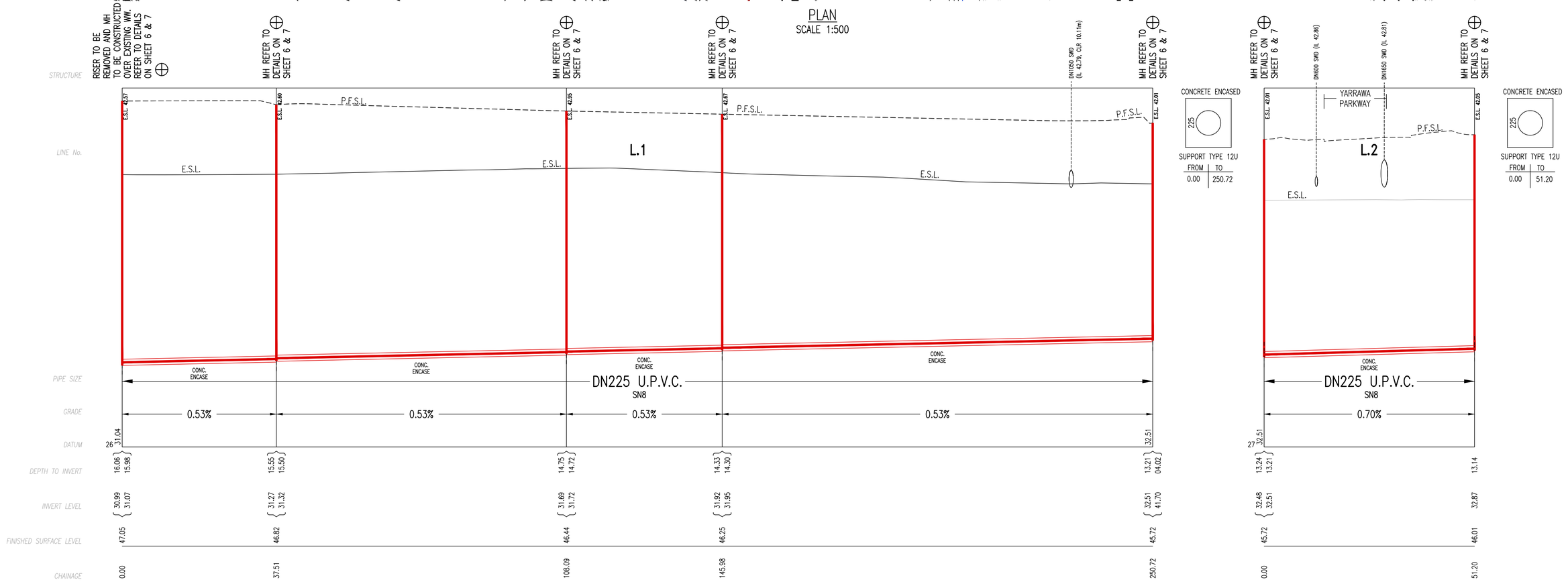
PLAN DRAWN DATE: 17/10/2025 VERSION: 00 SHEET 1 OF 9 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m
1 : 125 @ A1 1 : 250 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. 226188PW | SHT 2 OF 9 SHTS.

SYDNEY WATER CORPORATION

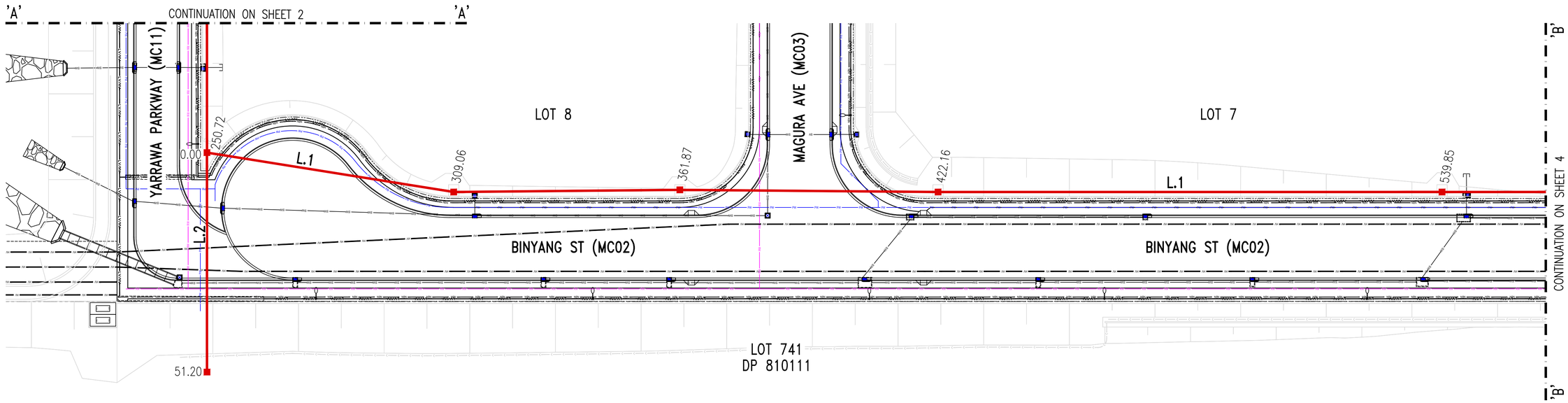
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 17/10/2025 VERSION: 00

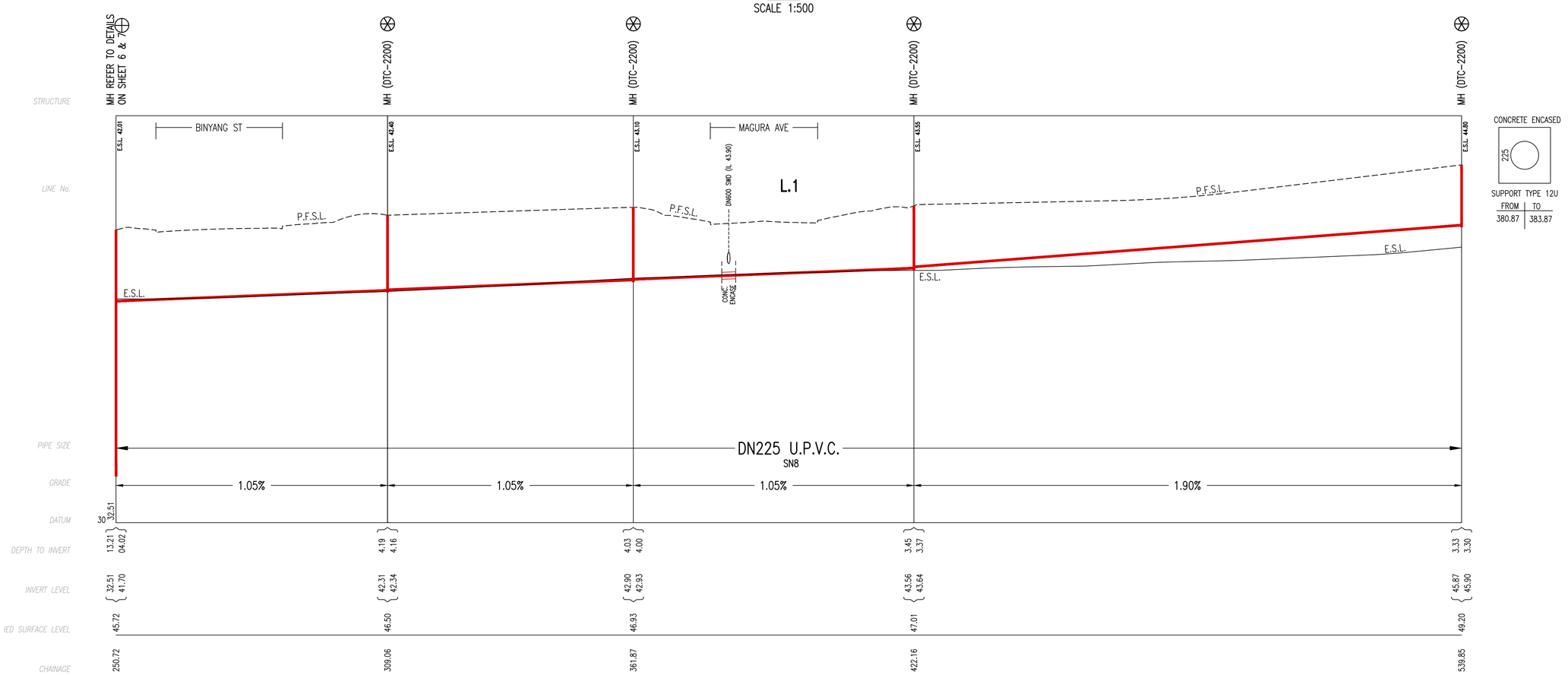
SHEET 2 OF 9 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m
1 : 125 @ A1 1 : 250 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....
DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

Sydney WATER

SYDNEY WATER CORPORATION

Case No. 226188PW | SHT 3 OF 9 SHTS.

SYDNEY WATER CORPORATION

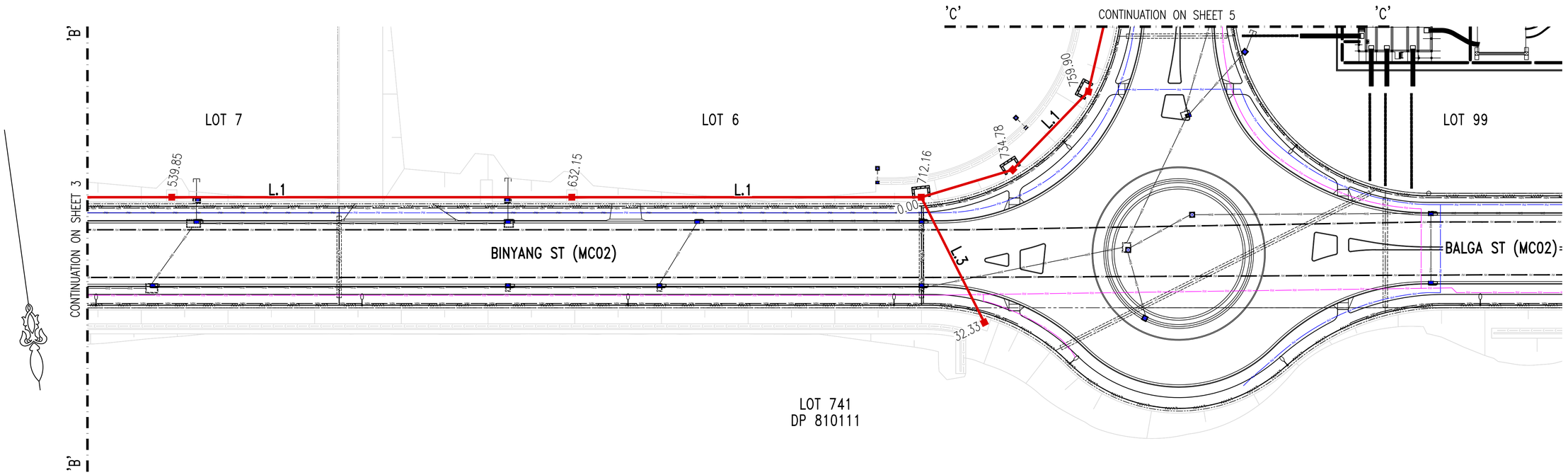
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 17/10/2025 VERSION: 00

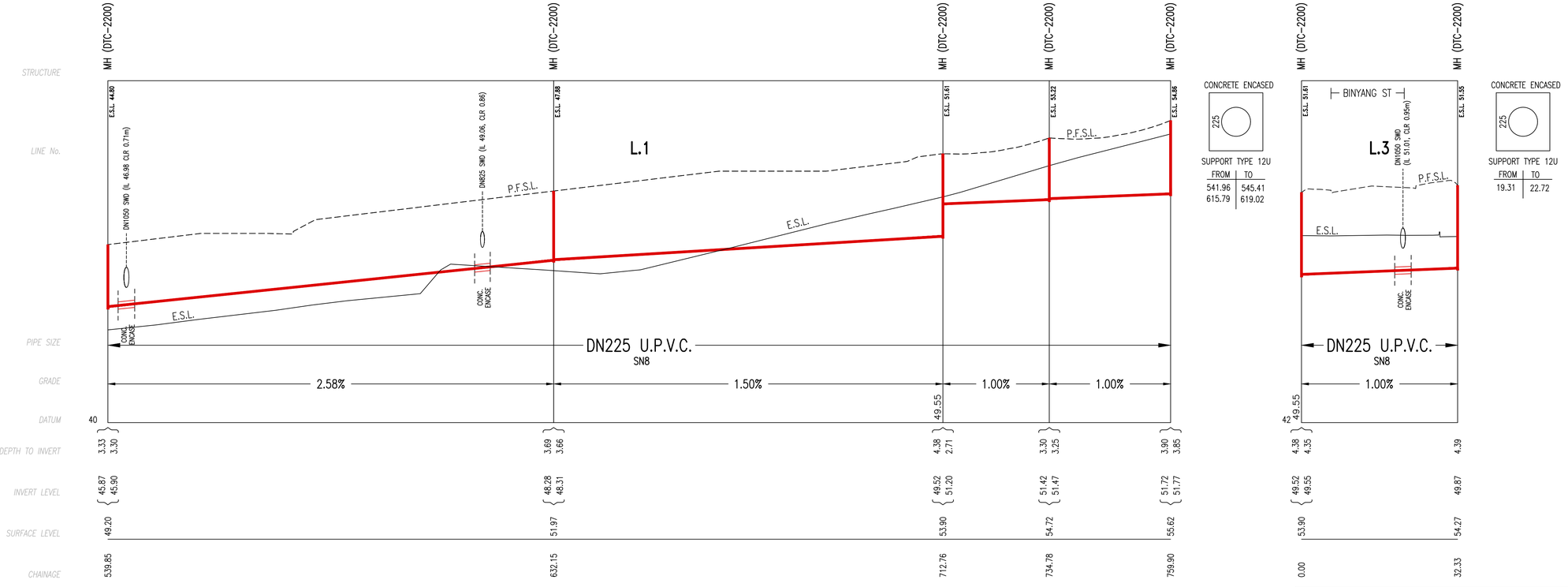
SHEET 3 OF 9 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



CONCRETE ENCASED

225

SUPPORT TYPE 12U

FROM	TO
541.96	545.41
615.79	619.02

CONCRETE ENCASED

225

SUPPORT TYPE 12U

FROM	TO
19.31	22.72

DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m

1 : 125 @ A1 1 : 250 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....

W.S.C. .....

CONSTRUCTOR .....

COMPLETED .....

W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Sydney WATER

Case No. 226188PW | SHT 4 OF 9 SHTS.

SYDNEY WATER CORPORATION

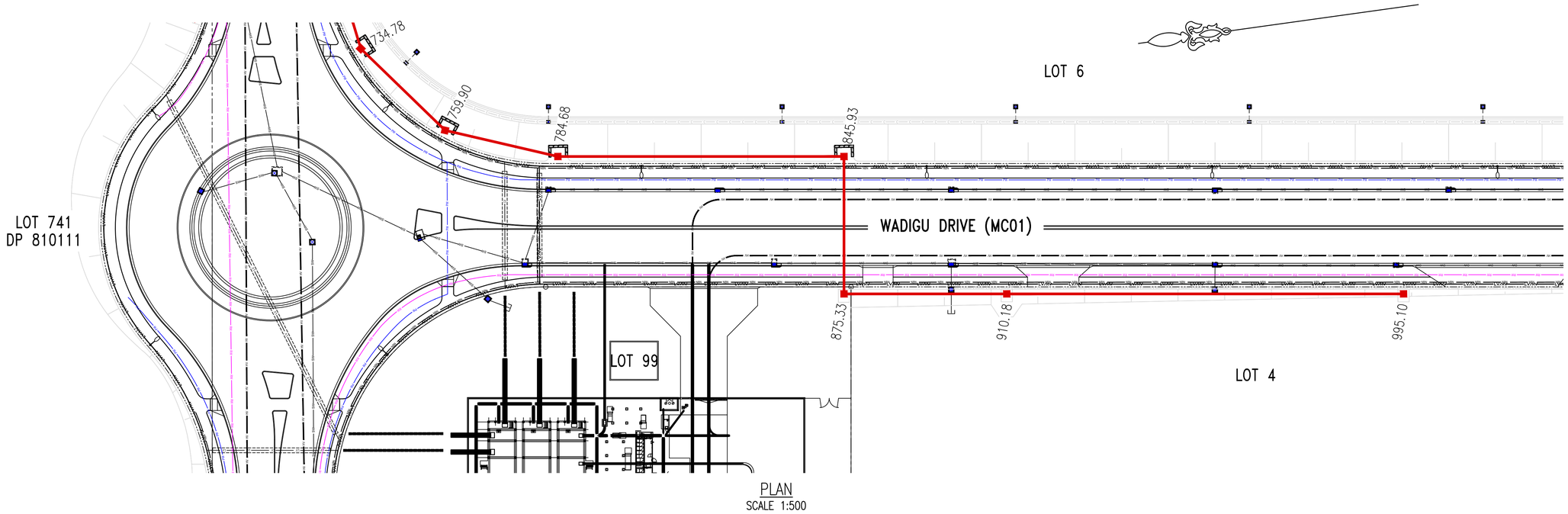
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 17/10/2025 VERSION: 00

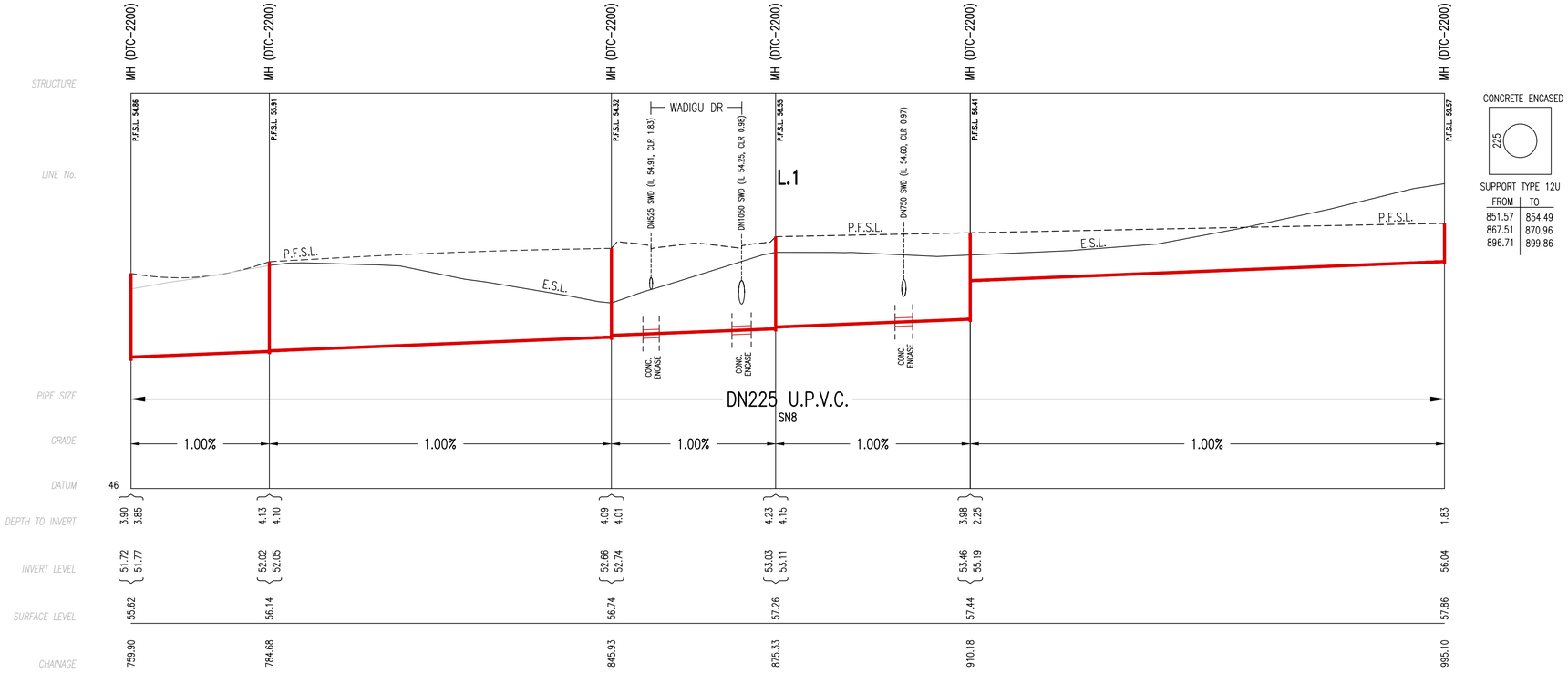
SHEET 4 OF 9 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



CONCRETE ENCASED

225

SUPPORT TYPE 12U

FROM	TO
851.57	854.49
867.51	870.96
896.71	899.86

DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m

1 : 125 @ A1 1 : 250 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....

W.S.C. .....

CONSTRUCTOR .....

COMPLETED .....

W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Sydney WATER

Case No. 226188PW | SHT 5 OF 9 SHTS.

SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 17/10/2025 VERSION: 00

SHEET 5 OF 9 SHEETS

A1F

SITE SPECIFIC DESIGN FOR MANHOLES 10 TO 20 METERS DEPTH

DEVELOPER CONTRACT PLAN

GENERAL

G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
ALL DISCREPANCIES SHALL BE REFERRED TO THE AT&L FOR DECISION BEFORE PROCEEDING WITH THE WORK.

G2. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.

G3. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS.

G4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.ALL RL AND CONTOUR LEVELS ARE EXPRESSED IN METRES.

G5. THIS DRAWING SET HAVE BEEN PREPARED FROM INFORMATION AVAILABLE AT THE TIME OF ISSUE. POTENTIALLY THIS INFORMATION MAY BE THE SUBJECT TO CHANGE PRIOR TO OR DURING THE CONSTRUCTION SEQUENCE, THE CONTRACTOR IS NOTIFY THE ENGINEER WHERE DISCREPANCIES OCCUR.

G6. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

G7. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

G8. PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION WORKS THE CONTRACTOR IS TO IDENTIFY AND LOCATE ALL EXISTING SERVICES. ANY DAMAGES TO EXISTING SERVICES IS TO BE REIMBURSED BY THE CONTRACTOR.

G9. THE STRUCTURAL ELEMENTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:-
CONCRETE - AS 3600
LOADING CODE - AS 1170.0 TO AS 1170.2 TO 1170.4, AS5100.2-2018, AS 5100.7-2004

G10. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.

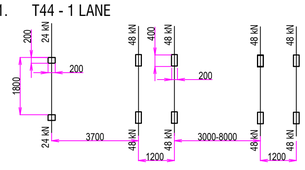
G11. MANHOLES HAVE BEEN DESIGNED FOR UNIFORM BEARING PRESSURE AND A MINIMUM SPRING STIFFNESS AS SHOWN IN THE TABLE G12. GEOTECHNICAL ENGINEER TO VERIFY THE REQUIRED GEOTECHNICAL PARAMETER PRIOR TO CONSTRUCTION

G12. ASSUMED GEOTECHNICAL PARAMETERS FROM BH1 TO 6 TO BE CONFIRMED BY GEOTECHNICAL ENGINEER:

MATERIAL	BOTTOM OF UNIT LEVEL (m)	UNIT WEIGHT (kN/m3)	ALLOWABLE BEARING (kPa)	EARTH PRESSURE COEFFICIENT		EFFECTIVE COHESION c' (kPa)	FRICTION ANGLE PHI'	E' (MPa)	SPRING STIFFNESS (kPa/m)
				ka	ko				
FILL/ ALLUVIAL SOIL	0	18	0	0.39	0.56	0	26	8	4000
RESIDUAL: SILTY CLAY - STIFF	0.5	20	80	0.42	0.59	5	24	12	4000
SHALE CLASS V	1.2	22	700	0.36	0.53	10	28	75	50,000
SHALE CLASS IV	7.56	23	1000	0.33	0.5	25	30	150	100,000

DESIGN LOADING

1. T44 - 1 LANE



T44 TRUCK LOADING

2. ABOVE LOADS REPRESENT MAX WORKING WHEEL LOADS (NOT DESIGNED FOR 80KN WHEEL LOAD)
3. DESIGN DYNAMIC LOAD ALLOWANCE NOT INCLUDED IN THESE LOADS

CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS3725 AND AS 2870.

C2. CONCRETE COMPONENTS AND QUALITY SHALL BE AS SHOWN ON SLAB PLANS.

C3. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.

C4. ALL THICKNESS SHOWN IS THE MINIMUM STRUCTURAL REQUIREMENT. NO REDUCTION IN THICKNESS DUE TO FALLS OR TOPPING IS PERMITTED.

C5. CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH AS1012 AND THE PROJECT SPECIFICATION

C6. THE CHARACTERISTIC COMPRESSIVE STRENGTH (f'c) AT 28 DAYS OF IN PLACE CONCRETE SHALL BE AS NOTED ON THE DRAWINGS.

C7. CONDUITS, PIPES AND THE LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER.

C8. NO PENETRATIONS GREATER THAN 150mm DIA, OR EMBEDMENT OF PIPES GREATER THAN 40mm DIA OTHER THAN SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE SLABS. HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS IN OTHER CONCRETE MEMBERS SHALL NOT BE PLACED IN WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C9. CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600 AND SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS USING AN APPROVED PROPRIETARY CURING COMPOUND (EXCEPT CHLORINATED RUBBER BASED TYPE) OR CONTINUOUS PONDING WITH POTABLE WATER.

C10. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK.

C11. CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:

ELEMENT	STRENGTH GRADE (MPa)	SLUMP (mm)	MAX AGG. SIZE (mm)	MIN COVER TO REINFORCEMENT	CEMENT TYPE	MAXIMUM SHRINKAGE STRAINS @ 56 DAYS (μm)
WALL	40	80	20	75mm	GP	600μm

C12. WHEN THE SHADE TEMPERATURE EXCEEDS 30°, THE EXPOSED SURFACE OF CONCRETE SHALL BE SPRAYED WITH A FINE FILM OF APPROVED ALIPHATIC ALCOHOL DURING CONCRETE PLACEMENT AND FINISHING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK

C13. ALL CONCRETE DELIVERED TO SITE SHALL BE SUBJECT TO PROJECT ASSESSMENT IN ACCORDANCE WITH AS 1379

C14. ALL CEMENTITIOUS MATERIAL CONTENT OF NOT LESS THAN 320kg/m3

C15. A TOTAL REACTIVE ALKALI CONTENT NOT GREATER THAN 3.0kg Na2O (EQUIVALENT) PER CUBIC METER, DETERMINED AS OUTLINED IN HB79

C16. CONSTRUCTION JOINTS (CJ) SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

C17. EXPOSURE CLASSIFICATION HAS BEEN ASSIGNED TO BE B1 CLASS FOR CONCRETE MEMBERS.

REINFORCEMENT

R1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, AS1302 AND OTHER RELEVANT AUSTRALIAN CODES

R2. REINFORCEMENT TYPE AND GRADE.

SYMBOL	TYPE	AUS. STAND.	GRADE
N	HOT ROLLED DEFORMED BARS	4671	500
Y	HOT ROLLED DEFORMED BARS	4671	400
RL OR SL	WELDED WIRE REINFORCEMENT FABRIC	4671	500
		4671	500

R3. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION.

R4. THE BAR SIZE IS INDICATED BY THE NUMBER AFTER THE SYMBOL, WHICH INDICATES THE BAR DIAMETER IN MILLIMETERS

R5. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

R6. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS.

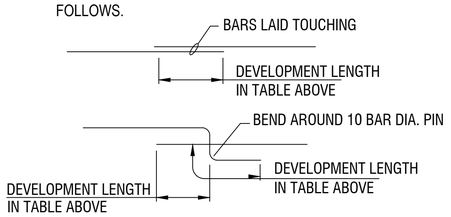
R7. CHAIRS FOR REINFORCEMENT SHALL BE OBTAINED BY THE USE OF STAINLESS STEEL OR PLASTIC BAR CHAIRS FOR BOTTOM REINFORCEMENT AND PLASTIC TIPPED WIRE BAR CHAIRS FOR TOP REINFORCEMENT.
ALL CHAIRS TO BE SPACED AT A MAXIMUM OF 800mm CENTRES.

R8. COVER SPECIFIED ALSO APPLIES LOCALLY AT RECESSES.

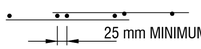
R9. LAP REINFORCEMENT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED.
UNLESS OTHERWISE NOTED, LAP BARS AS TABULATED BELOW.

REINFORCEMENT BAR	LAP LENGTH (mm)
SL82	400
SL92	500
SL102	600
N12	500
N16	800
N20	1000
N24	1200

R10. LAPPED SPLICES FOR BARS IN TENSION IN SLABS SHALL BE AS FOLLOWS.



R11. FABRIC SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25 mm MINIMUM.



R12. A MAXIMUM OF THREE SHEETS OF FABRIC SHALL BE LAPPED AT ANY POINT.

R13. WHERE NO REINFORCEMENT IS SHOWN ON THE DRAWING AT RIGHT ANGLES TO THE MAIN REINFORCEMENT DISTRIBUTION REINFORCEMENT IS TO BE PROVIDED.

R14. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.

R15. HOOKS, BENDS AND COGS SHALL BE IN ACCORDANCE WITH AS 5100, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

R16. REINFORCEMENT THAT HAS BEEN BENT AND SUBSEQUENTLY STRAIGHTENED OR BENT IN THE REVERSE DIRECTION SHALL NOT BE BENT AGAIN WITHIN 20 BAR DIAMETERS OF THE PREVIOUS BEND.

R17. HEATING OF REINFORCEMENT SHALL NOT BE PERMITTED.

FORMWORK

F1. FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS 3610

F2. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FALSEWORK INCLUDING STRIPPING AND BACK PROPPING IS THE RESPONSIBILITY OF THE FORMWORK SUB-CONTRACTOR. THE DIMENSION OF THE FINISHED WORK SHALL BE WITHIN THE TOLERANCES LAID DOWN IN AS5100. ALL FORMWORK MUST BE CERTIFIED FOR STRUCTURAL ADEQUACY BY A PRACTISING STRUCTURAL ENGINEER. ENGINEERING COMPUTATIONS AND/OR DRAWINGS SHALL ACCOMPANY SUCH A CERTIFICATE OF STRUCTURAL ADEQUACY.

F3. THE SUB-CONTRACTOR SHALL PROVIDE A CERTIFICATE TO THE HEAD CONTRACTOR STATING THAT THE FORMWORK PROPS AND BRACES HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE SUB-CONTRACTOR'S ENGINEER'S DESIGN

F4. STRIPPING AND BACK PROPPING SHALL BE TO FORMWORK SUB-CONTRACTOR'S ENGINEER'S DESIGN AND A WRITTEN PROCEDURE MUST BE PROVIDED TO THE HEAD CONTRACTOR

F5. THE RESPONSIBILITY FOR THE SUFFICIENCY AND SAFETY OF THE WHOLE OF THE FORMWORK SHALL REST ENTIRELY WITH THE CONTRACTOR AND ALL FORMWORK SHALL COMPLY WITH AS3610. FORMWORK SHALL BE OF TIMBER OR METAL AND THE FINISHED CONCRETE FACE SHALL PRESENT A PLAIN SMOOTH SURFACE

F6. ALL FORM JOINTS SHALL BE MORTAR AND WATER TIGHT AND ANY INDICATION IN THE FINISHED CONCRETE THAT THIS WAS NOT ACHIEVED WILL RENDER THAT CONCRETE LIABLE FOR REJECTION

F7. WHEN THE SHADE TEMPERATURE EXCEEDS 30°, THE EXPOSED SURFACE OF CONCRETE SHALL BE SPRAYED WITH A FINE FILM OF APPROVED ALIPHATIC ALCOHOL DURING CONCRETE PLACEMENT AND FINISHING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK

ABBREVIATIONS

BTM - BOTTOM
CFW - CONTINUOUS FILLET WELD
CJ - CONSTRUCTION JOINT
C_L - CENTRE LINE
CPBW - COMPLETE PENETRATION BUTT WELD
CTS - CENTRES
D.J - DOWELED JOINT
EF - EACH FACE
EW - EACH WAY
FFL - FINISH FLOOR LEVEL
GL - GROUND LINE
HOR - HORIZONTAL
IJ - ISOLATION JOINT - 10mm ABLEFLEX OR EQUIVALENT
KJ - KEY JOINT
MC - MASS CONCRETE
MJ - MOVEMENT JOINT
NB - NAILING BEAM
NOM - NOMINAL
NSOE - NOT SHOWN ON ELEVATION
NSOP - NOT SHOWN ON PLAN
NTS - NOT TO SCALE
PF(1) - PAD FOOTING
RL - REDUCED LEVEL
SSL - STRUCTURAL SLAB LEVEL
SJ - SAWN CONTROL JOINT
VERT. - VERTICAL
UNO - UNLESS NOTED OTHERWISE
O - OVER
TBC - TO BE CONFIRMED
T&B - TOP AND BOTTOM
U - UNDER

PLAN DRAWN DATE: 17/10/2025 VERSION: 00 SHEET 6 OF 9 SHEETS

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NOT FOR CONSTRUCTION

WORK AS CONSTRUCTED CERTIFICATION
DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....
DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

Sydney WATER
SYDNEY WATER CORPORATION
Case No. 226188WW | SHT 6 OF 9 SHTS.

SYDNEY WATER CORPORATION
FOR DETAILS OF SERVICES SEE SHEET 1

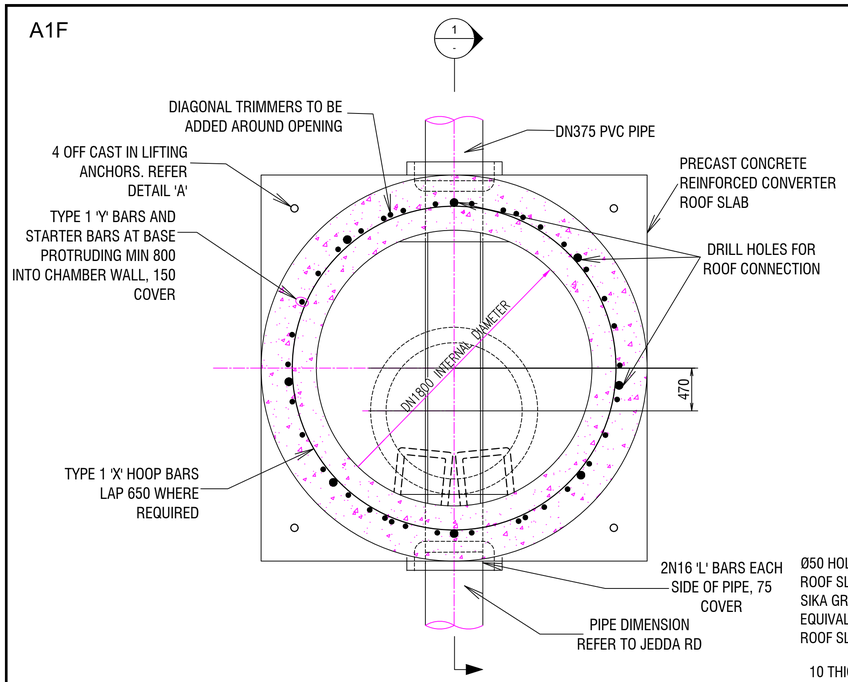
A1F

DEVELOPER CONTRACT PLAN

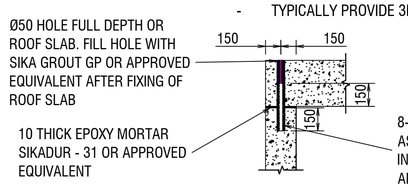
PIT SCHEDULE

PIT TYPE	LID THICKNESS T1 (mm)	WALL THICKNESS T2 (MM)	BASE THICKNESS T3 (MM)	PIT CHAINAGE	HEIGHT, H (M)	REINFORCEMENT
TYPE 1	300	300	300	530.43 710.43 890.43 1002.12 1171.43 1282.47	14.00≤H<10.00	WALL X = N16-100 CENTRALLY PLACED Y = N16-100 CENTRALLY PLACED ROOF SLAB & BASE SLAB: X = N12-150 TOP AND BOTTOM Y = N12-150 TOP AND BOTTOM
					10.00≤H	WALL X = N12-100 CENTRALLY PLACED Y = N12-100 CENTRALLY PLACED ROOF SLAB & BASE SLAB: X = N12-150 TOP AND BOTTOM Y = N12-150 TOP AND BOTTOM

NOTES:
- REINFORCEMENT TO BE 2 LAYERS OF REINFORCEMENT FOR ROOF AND BASE SLAB AND MEET COVER REQUIREMENTS AS PER SHEET 6 OF 9
- TYPICALLY PROVIDE 3N20-100 TRIMMERS CENTRALLY AROUND OPENINGS

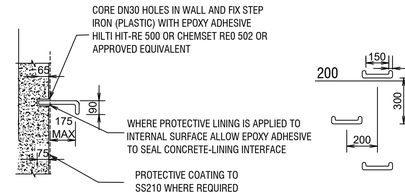


DN1800 MAINTENANCE HOLE - PLAN
SCALE 1:20

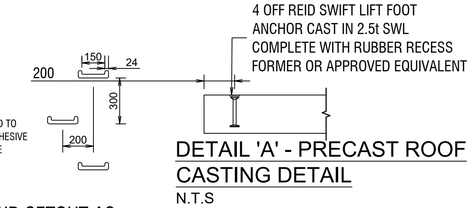


DETAIL 'B' - PRECAST ROOF CONNECTION DETAIL
SCALE : NTS

NOTES:
1. PRECAST CONCRETE ROOF PANEL WITH A MINIMUM STRENGTH OF 25 MPa AT LIFTING.
2. SPREADER BARS USED DURING LIFTING TO ENSURE LIFT FORCE IS VERTICAL

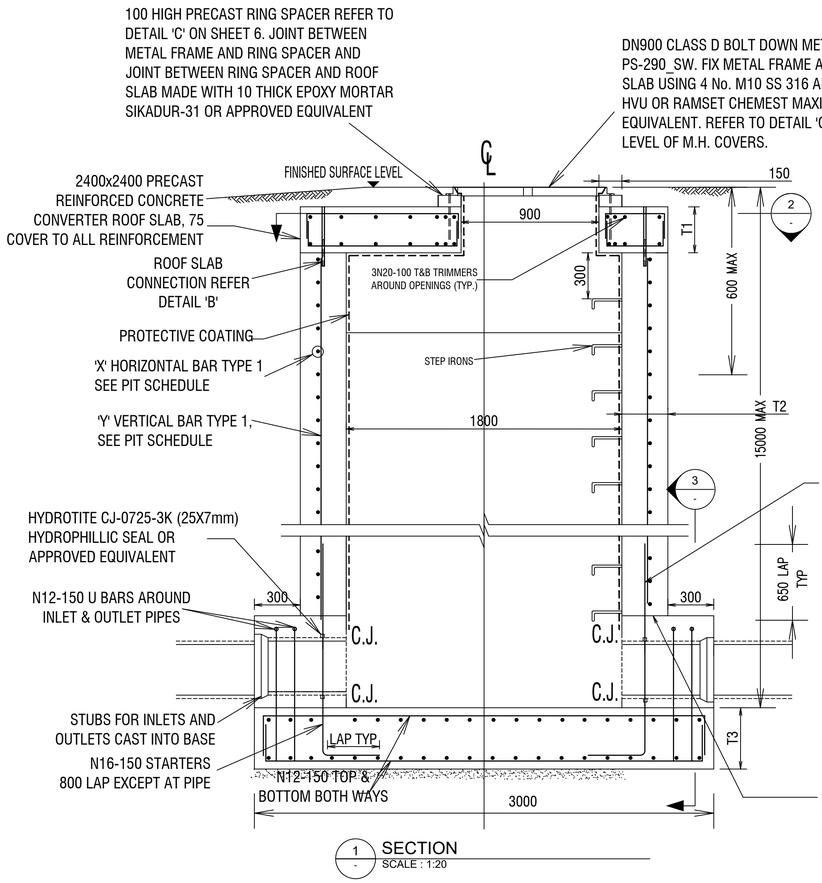


STANDARD STEP IRON DETAIL AND SETOUT AS PER DTC2220
SCALE 1:20



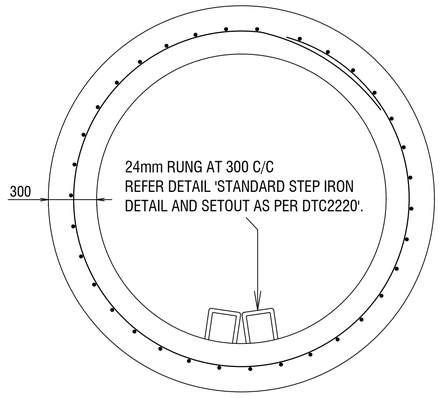
DETAIL 'A' - PRECAST ROOF CASTING DETAIL
N.T.S

NOT FOR CONSTRUCTION

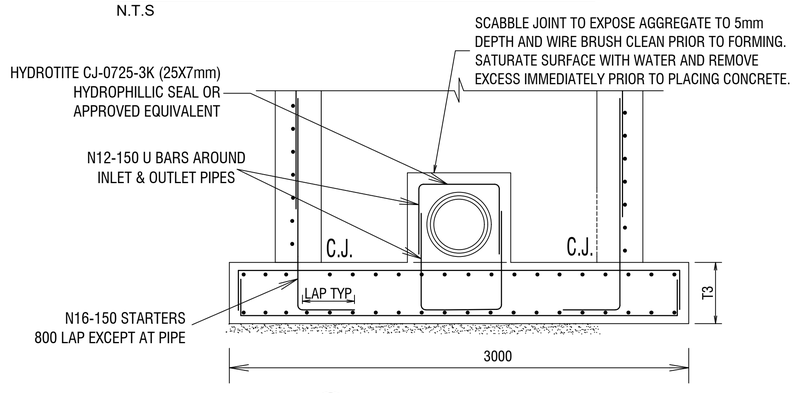


SECTION
SCALE : 1:20

DRAFT ONLY



DETAIL 'K' - STEP RUNGS DETAIL (PLAN VIEW)
N.T.S

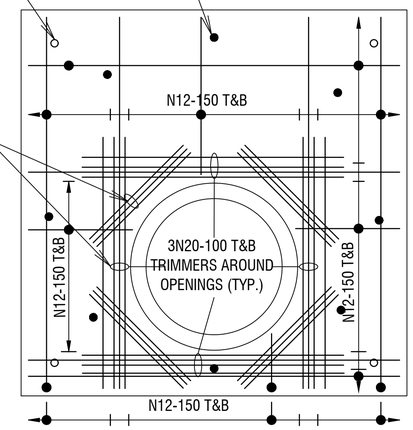


SECTION
SCALE : 1:20

50 DIAMETER HOLE FULL DEPTH - REFER TO DETAIL B

SWIFTLIFT ANCHOR LOCATIONS TO BE PLACE IN BETWEEN THE MESH

3N20-100 T&B 2000 LONG PLACED BETWEEN SLAB REINFORCEMENT BARS COGGED AT BOTH ENDS & MAINTAINING A COVER OF 75mm TO THE PENETRATION (TYPICAL)



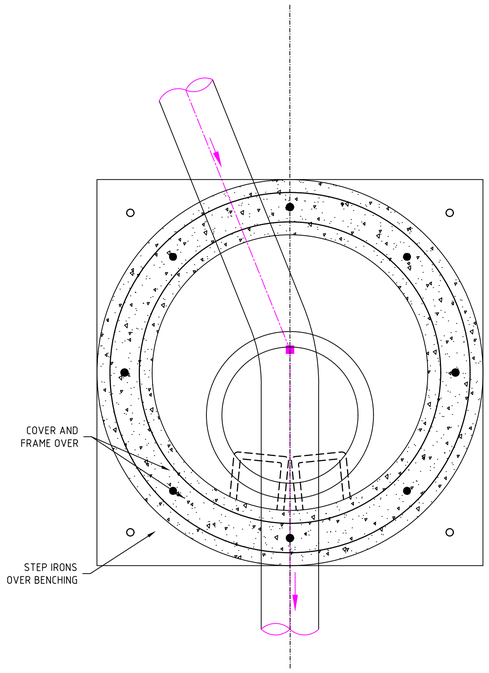
SECTION
SCALE : 1:20

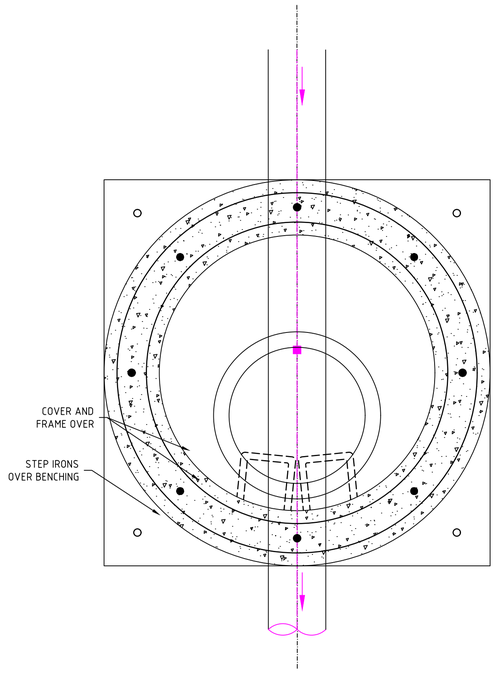
WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. 226188WW | SHT 7 OF 9 SHTS
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 17/10/2025 VERSION: 00 SHEET 7 OF 9 SHEETS

A1F

DEVELOPER CONTRACT PLAN





DETAIL 1 - MH BENCHING, STEP IRON AND PLATFORM ORIENTATION

N.T.S

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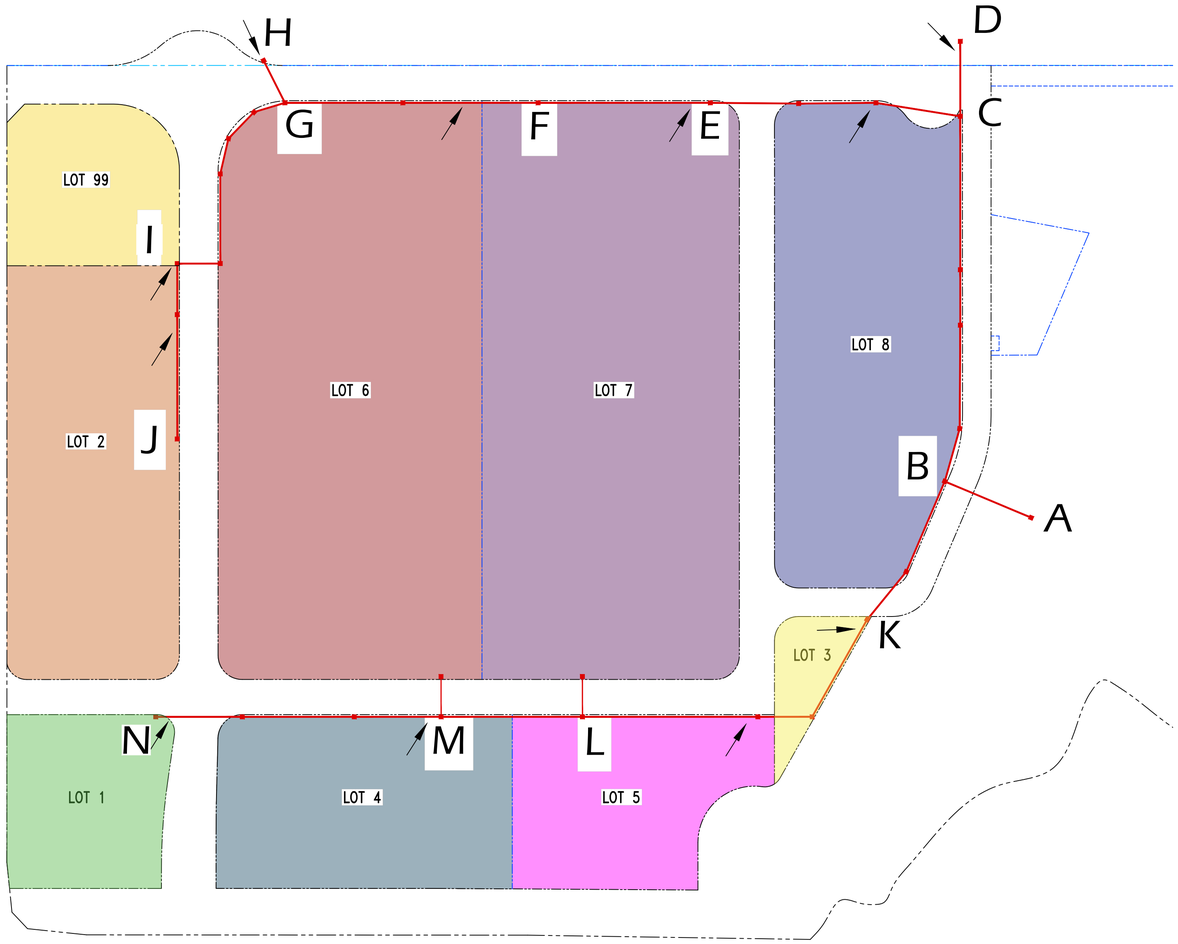
NOT FOR CONSTRUCTION

WORK AS CONSTRUCTED CERTIFICATION	SYDNEY WATER CORPORATION
DEVELOPER	Sydney WATER
W.S.C.	
CONSTRUCTOR	Case No. 226188WW | SHT 8 OF 9 SHTS
COMPLETED	
W.A.C. PREPARED	
DESIGNER	SYDNEY WATER CORPORATION
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS	FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 17/10/2025 VERSION: 00 SHEET 8 OF 9 SHEETS

A1F

DEVELOPER CONTRACT PLAN



Section	Line No	Chainage	Pipe Status	Total Area	Total Gravity	Total Grav + Pump	Pipe Material	Pipe Size (DN)	Pipe Size (ID)	Pipe Grade	Design Flow (DF)	Actual PDWF	Qf (Capacity)	Velocity @ Qf	Velocity @ PDWF	SHEAR STRESS	Grade Check	Max EP Check	Self Cleansing	Slime Control	Capacity Check
		m		Ha	EP	EP		mm	mm	%	L/s	L/s	L/s	m/s	m/s	Pa		for dia <=300			
J-I	1	00	NEW	3.32	100	100	PVC SN8	225	234	1.00	3.73	1.24	50.40	1.18	0.50	1.57		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
I-G	1	00	NEW	4.57	137	137	PVC SN8	225	234	1.00	4.45	1.48	50.40	1.18	0.52	1.70		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
H-G	1	00	NEW	2.44	73	73	PVC SN8	225	234	1.00	3.18	1.06	50.40	1.18	0.47	1.46		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
G-F	1	00	NEW	7.01	210	210	PVC SN8	225	234	1.50	5.69	1.90	61.73	1.44	0.65	2.60		RETIC 3837EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
F-E	1	00	NEW	14.08	422	422	PVC SN8	225	234	1.90	8.79	2.93	69.47	1.62	0.80	3.79		RETIC 4339EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
E-C	1	00	NEW	21.02	631	631	PVC SN8	225	234	1.05	11.51	3.84	51.65	1.21	0.71	2.70		RETIC 3110EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
D-C	1	00	NEW	39.79	1183	1183	PVC SN8	225	234	0.70	18.11	6.04	42.17	0.98	0.70	2.40		RETIC 2419EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
C-B	1	00	NEW	64.8	1933	1933	PVC SN8	225	234	0.53	26.45	8.82	36.69	0.86	0.70	2.26		RETIC 2021EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
B-A	1	00	NEW	70.662	2109	2109	PVC SN8	225	234	0.58	28.35	9.45	38.38	0.90	0.73	2.43		RETIC 2138EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
				0	0	0				0.00	0.00	0.00	0.00	0.00							
N-M	2	00	NEW	1.29	39	39	PVC SN8	225	234	1.00	2.31	0.77	50.40	1.18	0.43	1.26		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
M-L	2	00	NEW	3.68	110	110	PVC SN8	225	234	1.00	3.95	1.32	50.40	1.18	0.50	1.61			Self Cleansing OK	NA - Reticulation	Capacity OK
L-K	2	00	NEW	5.481	164	164	PVC SN8	225	234	1.00	4.93	1.64	50.40	1.18	0.54	1.78		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
K-B	2	00	NEW	5.862	176	176	PVC SN8	225	234	1.00	5.12	1.71	50.40	1.18	0.55	1.81		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK

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NOT FOR CONSTRUCTION

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. 226188PW | SHT 9 OF 9 SHTS.

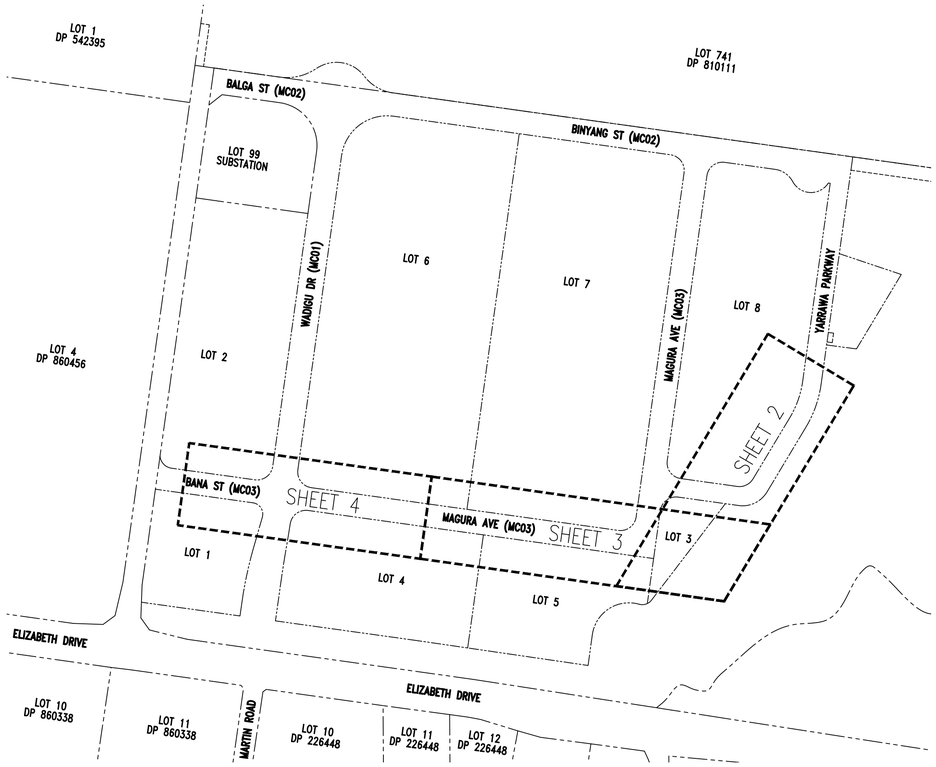
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

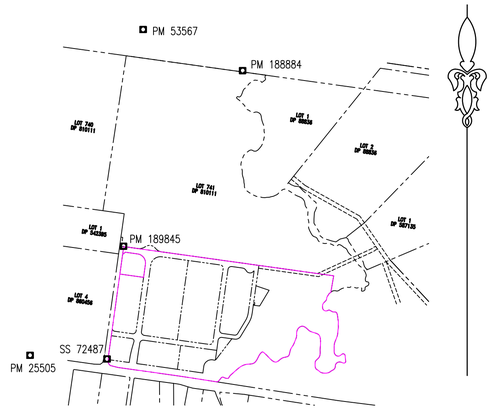
PLAN DRAWN DATE: 17/10/2025 VERSION: 00 SHEET 9 OF 9 SHEETS

A1

DEVELOPER CONTRACT PLAN



LOCALITY PLAN
NTS



ORIGIN OF LEVELS
NTS

M.G.A. TABLE (ZONE 56 GDA2020)

STATION	EASTING	NORTHING	CLASS	COMBINED SCALE FACTOR	SOURCE
PM 25505	292623.697	6249534.735	B	1.000117	S.C.I.M.S (25/08/24)
PM 53567	293180.960	6251139.893	2A	1.000116	S.C.I.M.S (25/08/24)
PM 188884	293671.339	6250937.476	B	1.000115	S.C.I.M.S (25/08/24)
PM 189845	293084.437	6250072.200	B	1.000115	S.C.I.M.S (25/08/24)
SS 72487	293003.000	6249516.553	B	1.000114	S.C.I.M.S (25/08/24)

DRAWING LIST

SHEET NUMBER	SHEET TITLE
1 OF 5	COVER SHEET, LOCALITY AND NOTES
2 OF 5	PLAN & L1 LONGSECTION
3 OF 5	PLAN & L1 AND L2 LONGSECTION
4 OF 5	PLAN & L1 AND L3 LONGSECTION
5 OF 5	CATCHMENT PLAN & FLOW SCHEDULE

MAINTENANCE STRUCTURE SCHEDULE

Line No	Chainage	Structure Type	DN Riser	Class of Cover	Material	Comments	(MGA) Easting	(MGA) Northing
1	0.00	MH	1200	D	CAST IN-SITU	CONSTRUCTED UNDER CN226188WW	293681.2992	6249700.5538
1	67.08	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293646.7312	6249643.0620
1	109.26	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293615.7973	6249614.3954
1	185.57	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293569.3966	6249553.8167
1	222.64	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293532.6713	6249558.9289
1	342.48	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293413.9854	6249575.4502
1	439.04	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293318.3464	6249588.7632
1	498.29	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293259.6093	6249969.8559
1	574.84	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293183.8429	6249607.4863
1	633.96	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293125.2926	6249615.6366
2	27.53	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293417.7725	6249602.7194
3	27.50	MH	1200	D	CAST IN-SITU	DTC-2200 ISSUE G 31-07-24	293322.1378	6249616.0006

NOTES :-

WATER SERVICE COORDINATOR & DESIGNER:
AT&L & ASSOCIATES
L10, 124 WALKER ST, NORTH SYDNEY NSW 2060
PH: (02) 9439 1777 FAX: (02) 9460 8413

PH:
MIRVAC PROJECTS PTY LTD
LEVEL 28, 200 GEORGE STREET, SYDNEY NSW 2000
PH: (02) 9080 8000

1. THE WORKS AND MATERIAL ARE IN ACCORDANCE WITH THE SEWERAGE CODE OF AUSTRALIA (WSA 02-2002-2.2 SYDNEY WATER VERSION 4, 2017) INCLUDING THE SYDNEY WATER SUPPLEMENT AND APPENDICES & THE SYDNEY WATER TECHNICAL SPECIFICATION – CIVIL, VERSION 11.
2. ALL LOTS WERE VACANT AT TIME OF SURVEY
3. ALL STRUCTURES TO BE CONSTRUCTED TO PROPOSED FINISHED SURFACE LEVELS. AS THE P.F.S.L.'S SHOWN ON THIS PLAN MAY BE SUBJECT TO CHANGE, THE CONSTRUCTOR IS TO LIAISE WITH THE SITE SUPERINTENDENT TO VERIFY ALL FINAL LEVELS AT TIME OF CONSTRUCTION.
4. DRAINAGE LIMITS ARE TO PROPOSED FINISHED SURFACE LEVELS. FOR THE EXTENTS OF THE DRAINAGE LIMITS PLEASE REFER TO THE CATCHMENTS PLAN ON SHEET 7.
5. ALL LEVELS ELECTRONICALLY GENERATED. NO LEVEL BOOK AVAILABLE.
6. EXISTING AND PROPOSED SERVICES ARE INDICATIVE ONLY. CURRENT SERVICES SEARCH & SITE CHECK OF ALL EXISTING & PROPOSED SERVICES WILL BE NECESSARY PRIOR TO THE COMMENCEMENT OF WORK & APPROPRIATE PROCEDURES, PRECAUTIONS AND CARE NEED TO BE TAKEN BY THE CONSTRUCTOR WHEN WORKING IN CLOSE PROXIMITY TO SERVICES DURING CONSTRUCTION AND ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONSTRUCTORS EXPENSE.
7. THE MINIMUM NUMBER OF FIELD COMPACTION TESTS REQUIRED TO SATISFY THE SEWERAGE CODE OF AUSTRALIA (CLAUSE 22.3.4.4) AND SYDNEY WATERS TECHNICAL SPECIFICATION – CIVIL ARE:

   PIPE EMBEDMENT ZONE: – USING 7mm/10mm/14mm SINGLE SIZE AGGREGATES: XX TESTS REQUIRED
   TRENCH FILL ZONE: – (TWO TEST IN EACH 300mm OF FILL FOR EACH 50 LINEAR METERS): XX TESTS REQUIRED
   M.H. & T.M.S. ZONE (TWO TESTS WITHIN EACH 1.5m DEPTH AT ONE LOCATION NEAR EACH STRUCTURE): XX TESTS REQUIRED

   A COMPACTION QUALITY ASSURANCE PLAN IS TO BE PREPARED BY THE CONSTRUCTOR AND SUBMITTED TO THE WSC AND SYDNEY WATER FOR ACCEPTANCE. A LEVEL 1 GEOTECHNICAL INSPECTION MUST BE PROVIDED IN ACCORDANCE WITH AS 3798 FOR ALL EARTHWORKS EXCEEDING 3.0m FILL OR BACKFILL THICKNESS.
8. CONSTRUCTOR TO PROVIDE WSC WITH CERTIFIED RED MARKED UP WAC DRAWINGS SHOWING ACCURATE DISTANCES OF PCP'S TO CENTRE OF DOWNSTREAM STRUCTURES, ACCURATE DISTANCE OF PCP ALONG PCP AND CHAINAGES OF CONCRETE ENCASED SECTIONS.
9. SEWER ENDS NOT TO BE BACKFILLED UNTIL LOCATION & INVERT LEVEL HAVE BEEN OBSERVED & APPROVAL TO BACKFILL RECEIVED FROM THE W.S.C.
10. LOCATION OF SEWER LINES TO BE MARKED BY A REGISTERED LAND SURVEYOR PRIOR TO CONSTRUCTION
11. EMBEDMENT MATERIAL SHALL COMPLY TO WSA-PS-350 OR WSA-PS-351
12. ALL MH'S TO BE CONSTRUCTED IN ACCORDANCE WITH DTC-2000, DTC-2202, DTC-2220, DTC-2221, DTC-2222 & DTC-2223 UNLESS OTHERWISE INSTRUCTED.
13. SUBSURFACE CONDITIONS, INCLUDING GROUNDWATER, CONTAMINATION, UNRECORDED BURIED MATERIAL OR OBJECTS AND ARCHAEOLOGICAL SIGNIFICANT ITEMS MAY BE ENCOUNTERED DURING CONSTRUCTION, REQUIRING FURTHER ENVIRONMENTAL, GEOTECHNICAL OR ARCHAELOGICAL ASSESSMENT AND APPLICATION OF APPROPRIATE CONSTRUCTION METHODS AND STANDARDS.
14. MINIMUM ALLOWABLE BEARING PRESSURE (AHBP) OF FOUNDATION MATERIAL FOR ALL MAINTENANCE HOLES BUILT TO DTC-2202 SHALL BE 100kPa FOR DEPTH LESS THAN 10m. FOUNDATION MATERIAL TO BE INSPECTED BY A SUITABLY EXPERIENCED GEOTECHNICAL ENGINEER PRIOR TO PLACING BLINDING CONCRETE & CERTIFICATION PROVIDED TO WSC.
15. ALL MH LIDS TO BE CONSTRUCTED 150mm ABOVE 1:100 FLOOD LEVEL. REFER TO WSA CODE.
16. ACCESS TO ALL SYDNEY WATER ASSETS MUST BE MAINTAINED FOR SYDNEY WATER PERSONNEL AT ALL TIMES. IF ASSETS ARE LOCATED WITHIN CONSTRUCTION AREAS WHERE ACCESS MUST BE LIMITED FOR SAFETY REASONS SYDNEY WATER MUST BE NOTIFIED OF A SUITABLE 24/7 CONTACT TO ARRANGE ACCESS IF NECESSARY.
17. CORROSION PROTECTION SHALL BE PROVIDED TO INTERNAL FACES OF ALL MANHOLES. CORROSION PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH WSA 201 MANUAL AND SYDNEY WATER SUPPLEMENT TO WSA 201. PROTECTIVE SYSTEM SHALL BE CPL, NOV OR EUH.
18. ALL PROPERTY CONNECTIONS (DN225 PCS) TO BE INSTALLED AS PER SEW-1151-S WITH INSPECTION OPENING (I.O) EXTENDED TO SURFACE LEVEL.
19. PIPES TO BE CONCRETE ENCASED (SUPPORT TYPE 12u) SHOWN ACCORDINGLY: CONC. ENCASE
20. DRAINAGE LIMITS ARE TO PROPOSED FINISHED SURFACE LEVELS. AREAS HATCHED THUS NOT DRAINED.
21. NON-DETECTABLE TAPE IS TO BE LAID ON TOP OF PIPE EMBEDMENT MATERIAL FOR ALL SEWER MAINS, INCLUDING PROPERTY CONNECTION SEWERS.
22. CONSTRUCTOR TO ENSURE CONSTRUCTION METHODOLOGY IS SUITABLE FOR CONSTRUCTION WORKS UNDER TRANSMISSION POWER LINES AS INDICATED ON PLAN AND LONGSECTIONS. CONSTRUCTOR TO OBTAIN APPROVAL TO WORK WITHIN TRANSGRID'S EASEMENT PRIOR TO ENTERING EASEMENT AND/OR COMMENCEMENT OF WORKS.
23. PLAN HAS BEEN PREPARED TO GDA2020.
24. BUILDING OVER/ADJACENT TO SEWER. CONDITIONS APPLY. REFER TO TAP-IN.
25. CUSTOMER DRAIN CONNECTIONS CONSTRUCTED CONCURRENTLY WITH THE NEW SEWER MUST BE CONSTRUCTED BY A LICENSED PLUMBER. THE WORKS MUST BE INSTALLED IN ACCORDANCE WITH THE CURRENT NSW CODE OF PRACTICE FOR PLUMBING AND DRAINAGE AND AS/NZS3500. THE CUSTOMER DRAIN RISER MUST NOT EXTEND TO THE SURFACE. A MINIMUM OF 500mm COVER MUST BE MAINTAINED TO PROTECT THE RISER & JUNCTION FROM DAMAGE. THE CUSTOMER DRAIN CONNECTION MUST BE INSPECTED BY A N.S.W. FAIR TRADING PLUMBING INSPECTION ASSURANCE SERVICE (PIAS) OFFICER PRIOR TO BACKFILL.
26. ALL SEWER SETOUT & WORK AS CONSTRUCTED SURVEY TO BE UNDERTAKEN BY A REGISTERED SURVEYOR WITH AN ACCURACY OF +/– 5mm.
27. CONNECTION TO IOP TO BE CONSTRUCTED AS PER CN214103WW & IOP SPECIFICATIONS. CONNECTION TO IOP TO BE CONFIRMED BY WSC PRIOR TO CONSTRUCTION.
28. THE INTRALOT DRAINAGE TO BE FINALISED IN FUTURE. NO CLASH STUDY WAS CARRIED OUT WITH INTRALOT DRAINAGE IN THIS DESIGN.
29. MAINTENANCE HOLES WITH THE DROPS TO BE EXTERNAL DROPS AS PER DTC-2221.

THE PROPOSED WORKS AS DETAILED HERE MUST BE CONSTRUCTED IN ACCORDANCE WITH SYDNEY WATERS STANDARD AND SPECIFICATIONS AS OUTLINED IN THE NOTES AND REFERENCED IN THESE DRAWINGS.

THE CONSTRUCTOR IS TO HOLD CURRENT STAMPED VERSIONS OF THESE PLANS, ALONG WITH THE FOLLOWING STANDARDS ON SITE AVAILABLE FOR REFERENCE AT ALL TIMES:

1. WSA 02-2002-2.2 – SEWERAGE CODE OF AUSTRALIA (SYDNEY WATER EDITION VERSION 4, 2017);
2. SYDNEY WATER'S DEEMED TO COMPLY DWGS:
   - DTC-2000 (REV. D 31/07/24),
   - DTC-2200 (REV. G 31/07/24),
   - DTC-2220 (REV. E 31/07/24),
   - DTC-2221 (REV. D 31/07/24),
   - DTC-2222 (REV. D 31/07/24),
   - DTC-2223 (REV. C 31/07/24),
   - DTC-2224 (REV. A 31/07/24),

JOB NO. 16-369 KEMPS CREEK – WASTEWATER STAGE 1B

CONTACT BEFORE YOU DIG AUS.

MAJOR TELECOMMUNICATION/OPTICAL FIBRE CABLES ARE LOCATED IN THIS AREA. SITE LOCATION CHECK AND FIELD VERIFICATION BY APPROVED PLANT LOCATORS IS MANDATORY PRIOR TO CONSTRUCTION. LOCATION OF SERVICES SHOWN ON PLAN IS INDICATIVE ONLY. CONTACT DIAL BEFORE YOU DIG PRIOR TO CONSTRUCTION.

BEFORE YOU DIG www.byda.com.au

CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

GDA2020

DRAFT ONLY

NOT FOR CONSTRUCTION

No.	AMENDMENT DESCRIPTION	BY	DATE
00	CONCEPT FOR COORDINATION	H.J.	17/10/25

PLAN TO BE READ IN CONJUNCTION WITH CURRENT SYDNEY WATER STANDARDS
SYDNEY WATER CORPORATION

PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTACT :-
DIAL BEFORE YOU DIG Ph. 1100
ELECTRICITY ENDEAVOUR ENERGY Ph. 131 033
GAS JEMENA GAS Ph. 131 909
TELECOMMUNICATIONS TELSTRA Ph. 132 203
NBN Co. Ph. 1800 687 626
GIVING AT LEAST 48 HOURS NOTICE.

UTILITIES

TYPE	DATE	REF.	TYPE	DATE	REF.
PROP SEWER:	17/10/25	AT&L			
ADJACENT SEWER:	17/10/25	AT&L			
PROP WATER:	07/10/25	AT&L			
PROP RECYCLED WATER:	07/10/25	AT&L			
PROP STORMWATER:	25/10/25	AT&L			
PROP LV/HV:	25/10/25	AT&L			
PROP HV:	25/10/25	AT&L			
PROP NBN:	25/10/25	AT&L			

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
WATER SERVICE CO-ORDINATOR .....
CONSTRUCTOR .....
COMPLETED ..... W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS.

PIPE SCHEDULE

SIZE DN	TYPE	CLASS	LENGTH	PIPE JOINING METHOD / NOTES
225	u.P.V.C.	SN8	689m	RRJ

DESIGN HEAD .....m
BOUNDARY TRAPS REQUIRED.

AUSTRALIAN HEIGHT DATUM

SCALES
PLAN 1:500 SECTION HOR. 500 VERT. 125
CROSS SECTIONS ..... NATURAL
LENGTHS, DEPTHS & LEVELS ARE IN METRES.

NO AMENDMENTS ARE TO BE MADE TO THIS PLAN WITHOUT REFERENCE TO SYDNEY WATER. THIS PLAN IS NOT NECESSARILY UP TO DATE OR CORRECT AND SYDNEY WATER ACCEPTS NO RESPONSIBILITY.

U.B. DIRECTORY Map 225, F14 (41ST ED)

SHEET 1 OF 5 File No. .....

SYDNEY WATER CORPORATION
Sydney WATER

Case No.229157WW

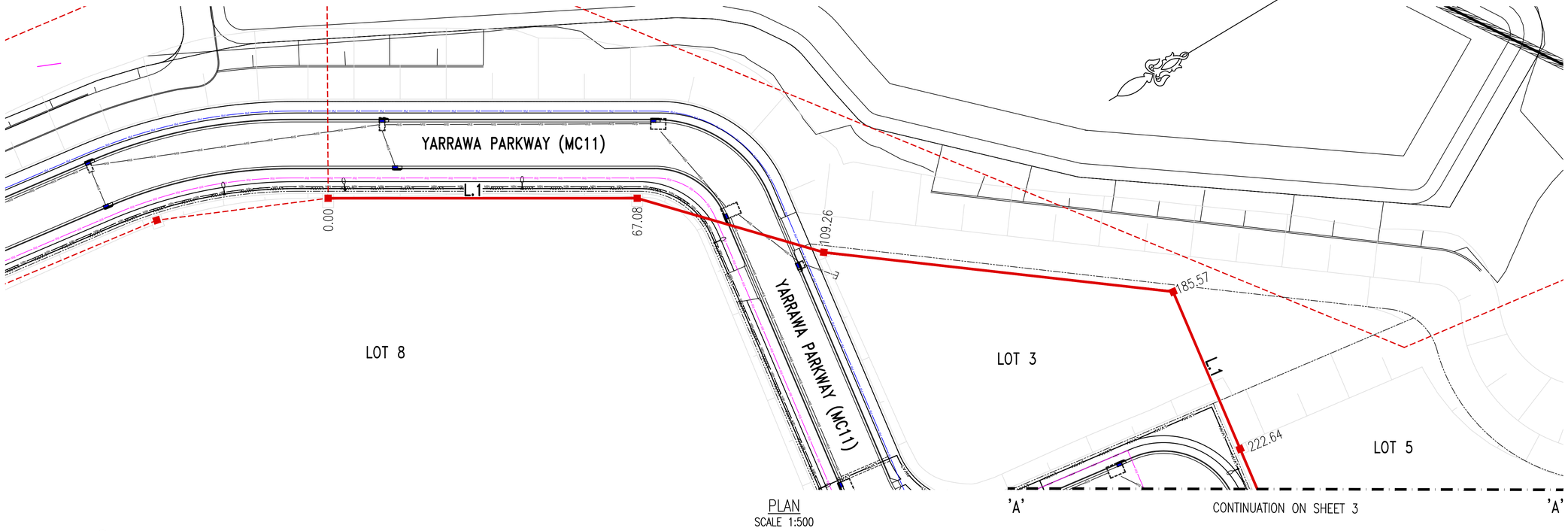
WASTEWATER EXTENSION
1169-1723 ELIZABETH DRIVE
BADGERYS CREEK PENRITH

FILE LOCATION: 16-369 *DESIGNED:* H.J. *DRAFTED:* H.J. *VERIFIED:* S.B. *REVIEWED:* S.B. *APPROVED:* *ISSUED:*

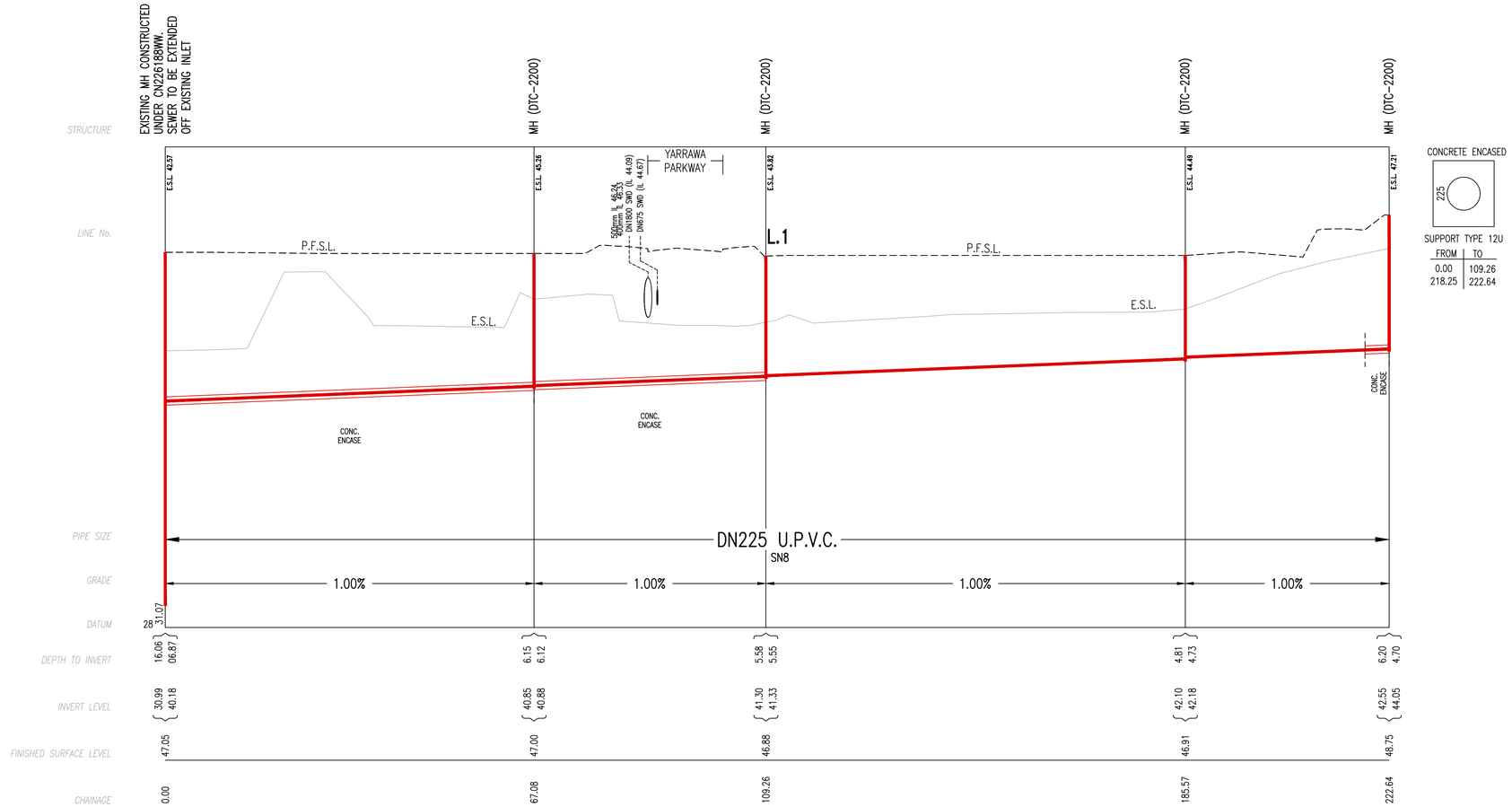
PLAN DRAWN DATE: 20/11/2025 VERSION: 00 SHEET 1 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



CONCRETE ENCASED

SUPPORT TYPE 12U

FROM	TO
0.00	109.26
218.25	222.64

DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m

1 : 125 @ A1 1 : 250 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

Sydney WATER

SYDNEY WATER CORPORATION

Case No. 229157WW | SHT 2 OF 5 SHTS.

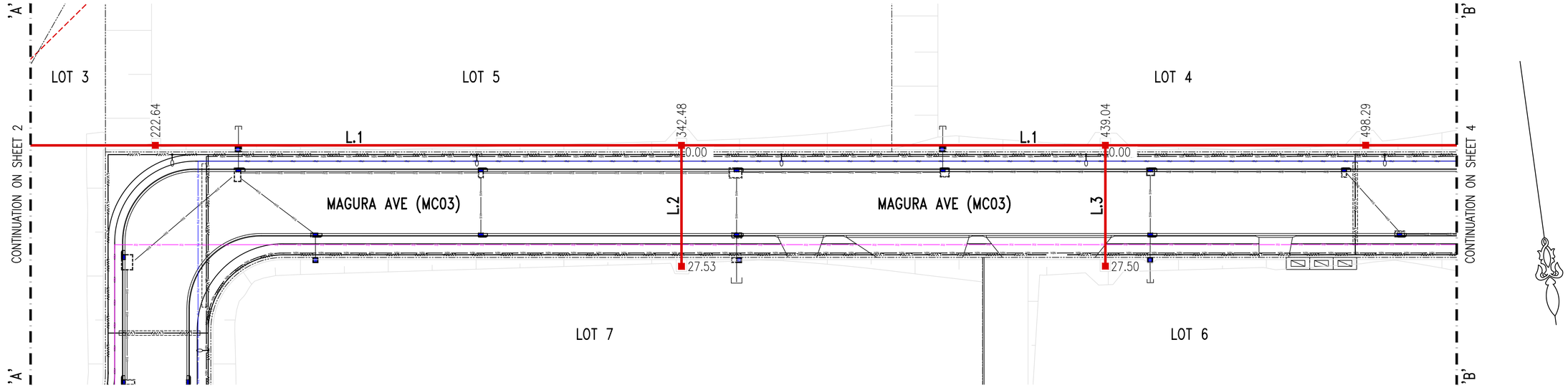
SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

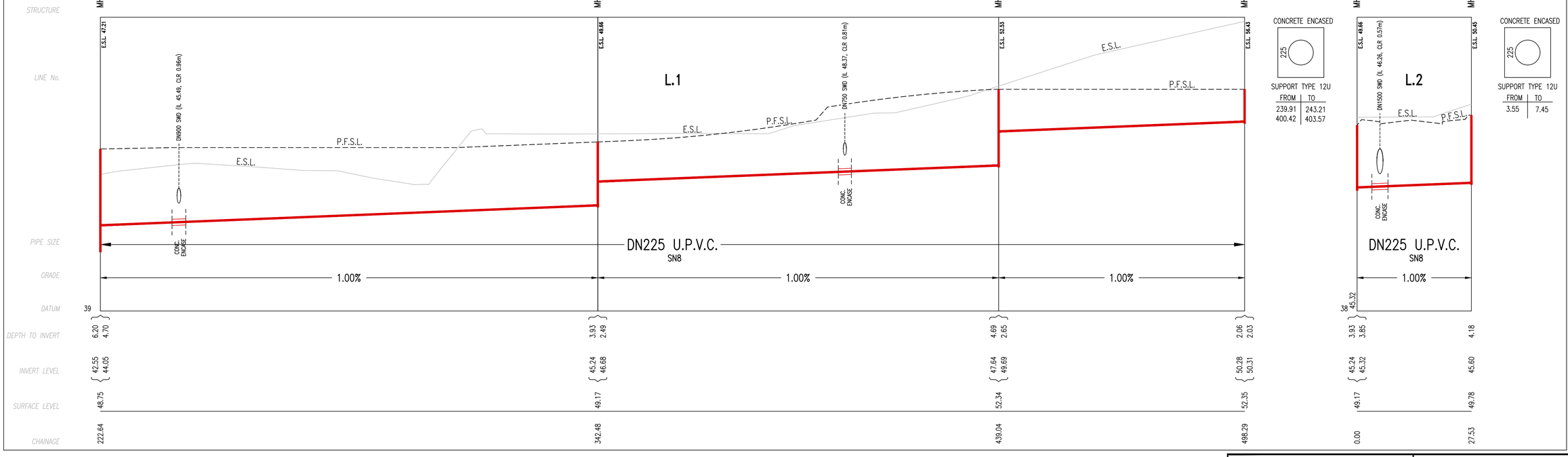
PLAN DRAWN DATE: 20/11/2025 VERSION: 00 SHEET 2 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m
1 : 125 @ A1 1 : 250 @ A3

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....
W.S.C. .....
CONSTRUCTOR .....
COMPLETED .....
W.A.C. PREPARED .....

DESIGNER .....
I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Case No. 229157WW | SHT 3 OF 5 SHTS.

SYDNEY WATER CORPORATION

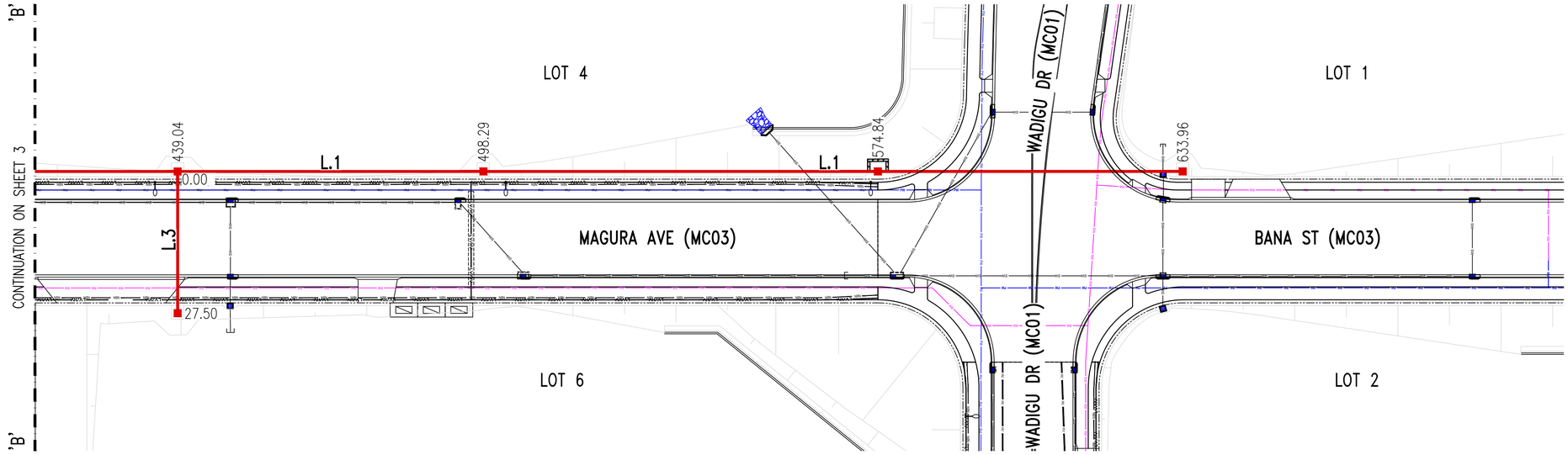
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 20/11/2025 VERSION: 00

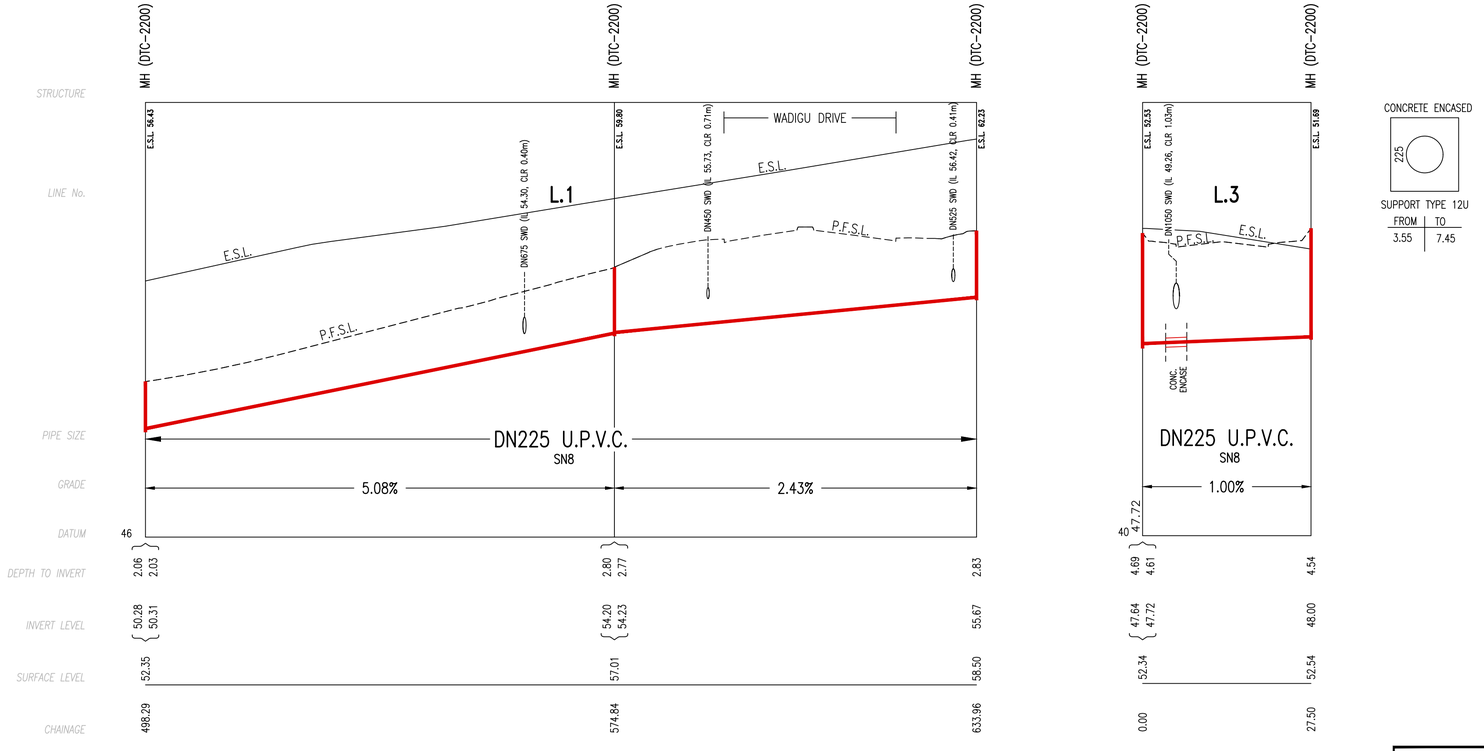
SHEET 3 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



PLAN
SCALE 1:500



CONCRETE ENCASED

SUPPORT TYPE 12U

FROM	TO
3.55	7.45

DRAFT ONLY

NOT FOR CONSTRUCTION

0 2.5 5 7.5 10 12.5m

1 : 125 @ A1 1 : 250 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....

W.S.C. .....

CONSTRUCTOR .....

COMPLETED .....

W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

Sydney WATER

SYDNEY WATER CORPORATION

Case No. 229157WW | SHT 4 OF 5 SHTS.

SYDNEY WATER CORPORATION

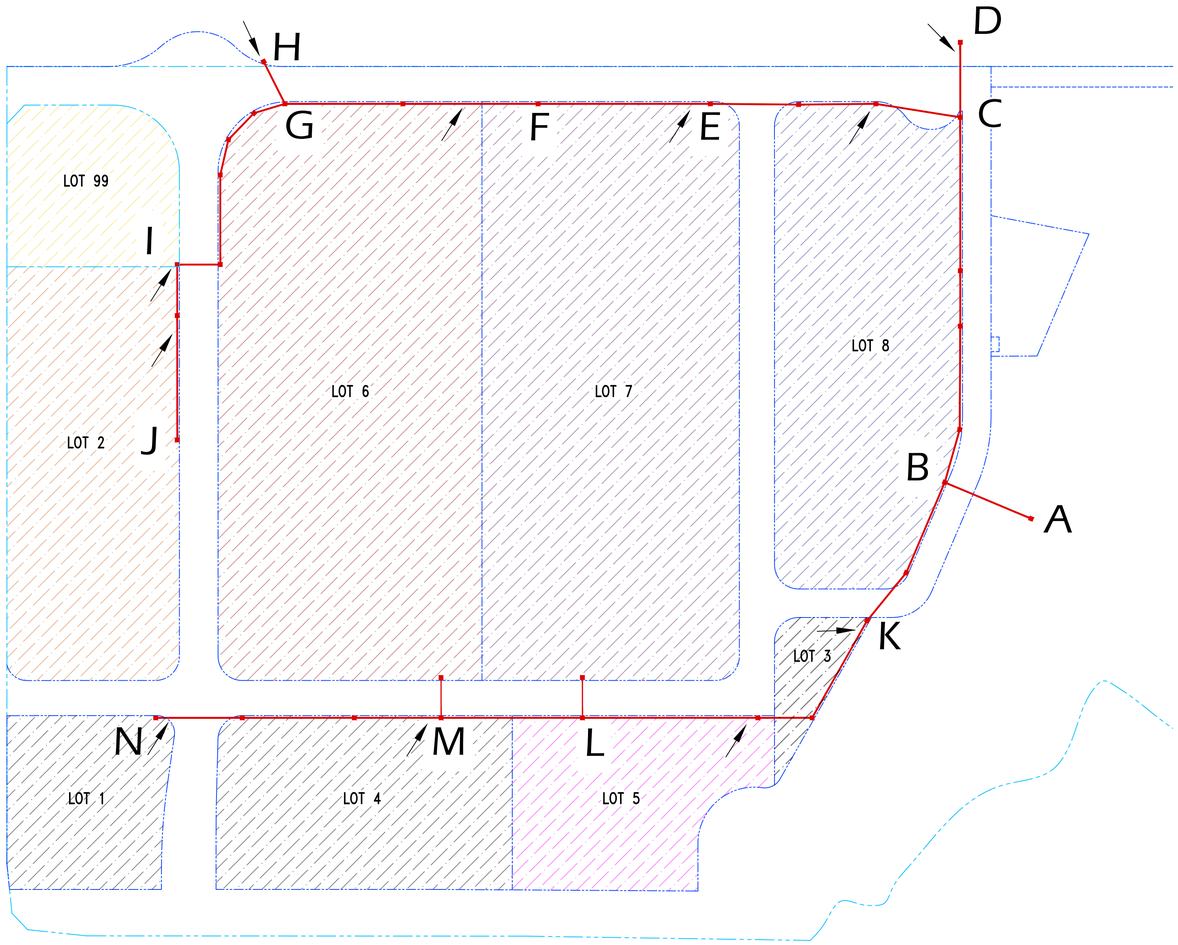
FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 20/11/2025 VERSION: 00

SHEET 4 OF 5 SHEETS

A1F

DEVELOPER CONTRACT PLAN



Section	Line No	Chainage	Pipe Status	Total Area	Total Gravity	Total Grav + Pump	Pipe Material	Pipe Size (DN)	Pipe Size (ID)	Pipe Grade	Design Flow (DF)	Actual PDWF	Qf (Capacity)	Velocity @ Qf	Velocity @ PDWF	SHEAR STRESS	Grade Check	Max EP Check	Self Cleansing	Slime Control	Capacity Check
		m		Ha	EP	EP		mm	mm	%	L/s	L/s	L/s	m/s	m/s	Pa		for dia <=300			
J-I	1	00	NEW	3.32	100	100	PVC SN8	225	234	1.00	3.73	1.24	50.40	1.18	0.50	1.57		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
I-G	1	00	NEW	4.57	137	137	PVC SN8	225	234	1.00	4.45	1.48	50.40	1.18	0.52	1.70		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
H-G	1	00	NEW	2.44	73	73	PVC SN8	225	234	1.00	3.18	1.06	50.40	1.18	0.47	1.46		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
G-F	1	00	NEW	7.01	210	210	PVC SN8	225	234	1.50	5.69	1.90	61.73	1.44	0.65	2.60		RETIC 3837EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
F-E	1	00	NEW	14.08	422	422	PVC SN8	225	234	1.90	8.79	2.93	69.47	1.62	0.80	3.79		RETIC 4339EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
E-C	1	00	NEW	21.02	631	631	PVC SN8	225	234	1.05	11.51	3.84	51.65	1.21	0.71	2.70		RETIC 3110EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
D-C	1	00	NEW	39.79	1183	1183	PVC SN8	225	234	0.70	18.11	6.04	42.17	0.98	0.70	2.40		RETIC 2419EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
C-B	1	00	NEW	64.8	1933	1933	PVC SN8	225	234	0.53	26.45	8.82	36.69	0.86	0.70	2.26		RETIC 2021EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
B-A	1	00	NEW	70.662	2109	2109	PVC SN8	225	234	0.58	28.35	9.45	38.38	0.90	0.73	2.43		RETIC 2138EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
				0	0	0				0.00	0.00	0.00	0.00	0.00							
N-M	2	00	NEW	1.29	39	39	PVC SN8	225	234	1.00	2.31	0.77	50.40	1.18	0.43	1.26		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
M-L	2	00	NEW	3.68	110	110	PVC SN8	225	234	1.00	3.95	1.32	50.40	1.18	0.50	1.61			Self Cleansing OK	NA - Reticulation	Capacity OK
L-K	2	00	NEW	5.481	164	164	PVC SN8	225	234	1.00	4.93	1.64	50.40	1.18	0.54	1.78		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK
K-B	2	00	NEW	5.862	176	176	PVC SN8	225	234	1.00	5.12	1.71	50.40	1.18	0.55	1.81		RETIC 3025EP MAX	Self Cleansing OK	NA - Reticulation	Capacity OK

DRAFT ONLY

NOT FOR CONSTRUCTION

WORK AS CONSTRUCTED CERTIFICATION

DEVELOPER .....

W.S.C. .....

CONSTRUCTOR .....

COMPLETED .....

W.A.C. PREPARED .....

DESIGNER .....

I CERTIFY THAT THE WORKS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE WORK AS CONSTRUCTED DRAWINGS

SYDNEY WATER CORPORATION

Sydney WATER

Case No. 229157WW | SHT 5 OF 5 SHTS.

SYDNEY WATER CORPORATION

FOR DETAILS OF SERVICES SEE SHEET 1

PLAN DRAWN DATE: 20/11/2025 VERSION: 00 SHEET 5 OF 5 SHEETS

APPENDIX C – Lot 100/DP1283398 DP Plan

Req:R880001 /Doc:DP 1283398 P /Rev:24-May-2022 /NSW LRS /Prt:25-May-2022 03:30 /Seq:1 of 2
© Office of the Registrar-General /Src:PORTAL /Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY

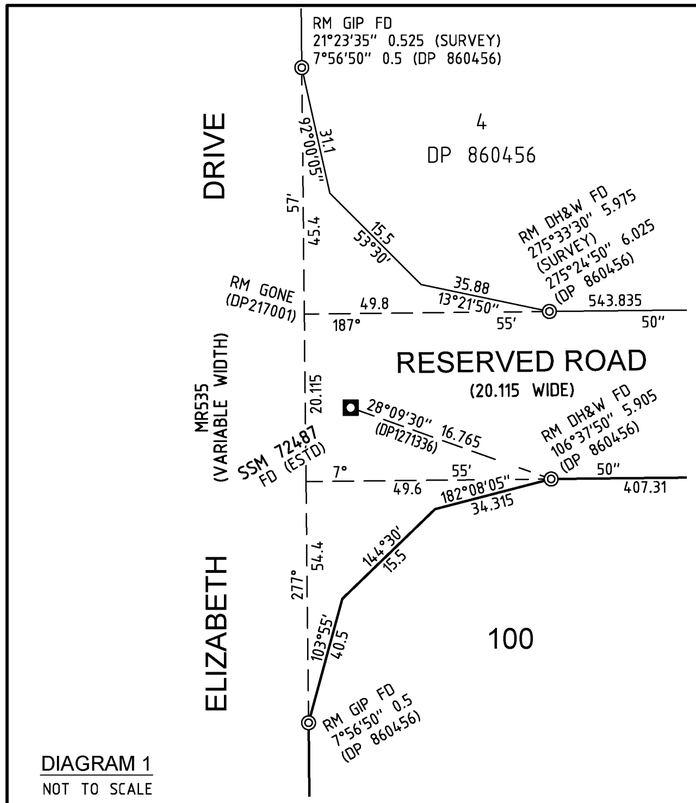


DIAGRAM 1
NOT TO SCALE

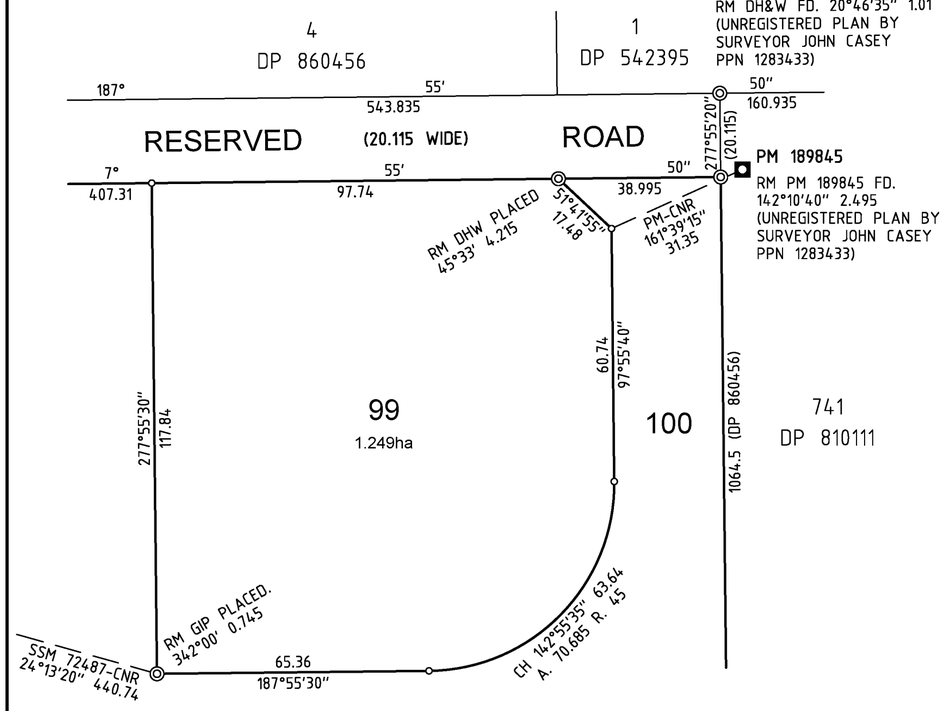
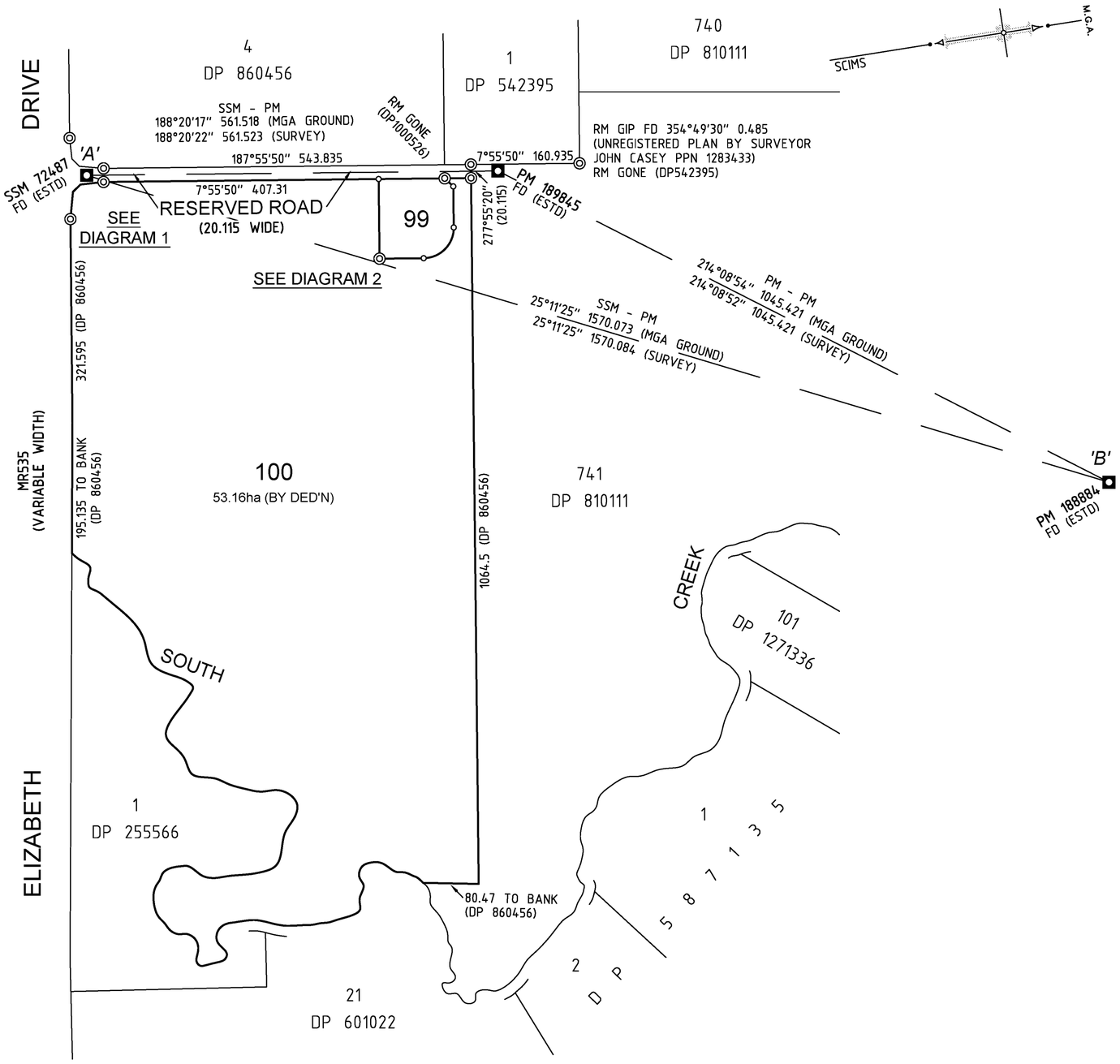


DIAGRAM 2
SCALE 1:1000



COORDINATE SCHEDULE						
MARK	MGA CO-ORDINATES		CLASS	PU	METHOD	STATE
	EASTING	NORTHING				
PM 188884	293 671.340	6250 937.477	B	0.02	SCIMS	FOUND
PM 189845	293 084.439	6250 072.201	B	0.02	SCIMS	FOUND
SSM 72487	293 003.002	6249 516.554	B	0.02	SCIMS	FOUND
DATE OF SCIMS COORDINATES: 07-04-2022 MGA ZONE: 56 MGA DATUM: GDA2020 COMBINED SCALE FACTOR: 1.000115						

SURVEYOR Name: SCOTT PETER LINDSAY LORD Date of Survey: 07/04/2022 Surveyor's Reference: 43798 010DP [EE Ref: RP4861]	PLAN OF LAND TO BE ACQUIRED UNDER THE ELECTRICITY SUPPLY ACT 1995, BEING PART LOT 5 IN DP 860456	LGA: PENRITH Locality : BADGERYS CREEK Reduction Ratio 1: 5000 Lengths are in metres.	Registered 24/05/2022	DP1283398

Req:R880001 /Doc:DP 1283398 P /Rev:24-May-2022 /NSW LRS /Prt:25-May-2
© Office of the Registrar-General /Src:PORTAL /Ref:lrs:eplan-eplan FO

PLAN FORM 6 (2020) WARNING: Creasing or folding will lead to rejection

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 24/05/2022

Title System: TORRENS

Office Use Only

DP1283398

PLAN OF LAND TO BE ACQUIRED UNDER THE ELECTRICITY SUPPLY ACT 1995, BEING PART LOT 5 IN DP860456

LGA: PENRITH

Locality: BADGERYS CREEK

Parish: CLAREMONT

County: CUMBERLAND

Survey Certificate

I, SCOTT PETER LINDSAY LORD

of LTS LOCKLEY PO BOX 564 ST LEONARDS NSW 1590

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

*~~(a) The land shown in the plan was surveyed in accordance with the Surveying and Spatial Information Regulation 2017, is accurate and the survey was completed on ....., or~~

*(b) The part of the land shown in the plan (*being/*~~excluding~~ ** LOT 99 AND CONNECTIONS) was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, the part surveyed is accurate and the survey was completed on, 7-4-2022 the part not surveyed was compiled in accordance with that Regulation, or

*~~(c) The land shown in this plan was compiled in accordance with the Surveying and Spatial Information Regulation 2017.~~

Datum Line: 'A - B'

Type: *Urban/*~~Rural~~

The terrain is *Level-Undulating / *~~Steep-Mountainous~~.

Signature: ..... Dated: 19-5-2022

Surveyor Identification No: 8627
Surveyor registered under
the *Surveying and Spatial Information Act 2002*

*Strike out inappropriate words.

**Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office:

Subdivision Certificate

I, ...

*Authorised Person/*General Manager/*Registered Certifier, certify that the provisions of s.6.15 of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: .....

Registration number: .....

Consent Authority: .....

Date of endorsement: .....

Subdivision Certificate number: .....

File number: .....

*Strike through if inapplicable.

Plans used in the preparation of survey/~~compilation~~.

DP860456

DP810111

UNREGISTERED PLAN (PPN: 1283433)

Statements of intention to dedicate public roads create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED THAT LOT 99 BE ACQUIRED BY EPSILON DISTRIBUTION MINISTERIAL HOLDING CORPORATION ABN: 59 253 130 878 FOR ELECTRICITY SUPPLY PURPOSES.

Surveyor's Reference: 43798 010DP
[EE Ref: RP4861]

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

at&l

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