

HV. TRENCH LENGTH	320m
LV. TRENCH LENGTH	430m
TOTAL TRENCH LENGTH	750m

CERTIFIED BY ENDEAVOUR ENERGY
 AMENDMENT: 1
 DATE APPROVED: 08/06/2022
 ENGINEER SIGNATURE: [Signature]
 PRINT NAME: Vishal Chavan
 THIS CERTIFICATION IS ISSUED SUBJECT TO ENDEAVOUR ENERGY'S STANDARD CERT. TERMS.

WARNING
 LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES EXIST IN THIS AREA.
 PLEASE CONTACT - DIAL BEFORE YOU DIG ON TEL-1100 FOR SEARCH INFORMATION A MINIMUM TWO DAYS PRIOR TO EXCAVATION

DUCT DECLARATION
 I, **LUKE KINNELL**
 of **LINDSAY CIVIL PTY LTD**
 CONTACT NUMBER **02 4648 1273**
 HEREBY CERTIFY THAT THE DUCTS SHOWN ON THIS DRAWING HAVE BEEN INSTALLED IN ACCORDANCE WITH THIS DRAWING AND ENDEAVOUR ENERGY STANDARDS MDI 0028 & MCI 0006. THE DUCT DEPTHS AND LOCATIONS AT EACH END HAVE BEEN CORRECTLY MARKED ON THIS DRAWING AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.
 THE INSTALLATION OF THE DUCTS WAS
 COMPLETED ON **22.7.2022**
 COMPLETED ON **5.8.2022**
 SIGNATURE **LUKE KINNELL**
 DATE **16.11.2022**
 DEVELOPER COMPETENT PERSON

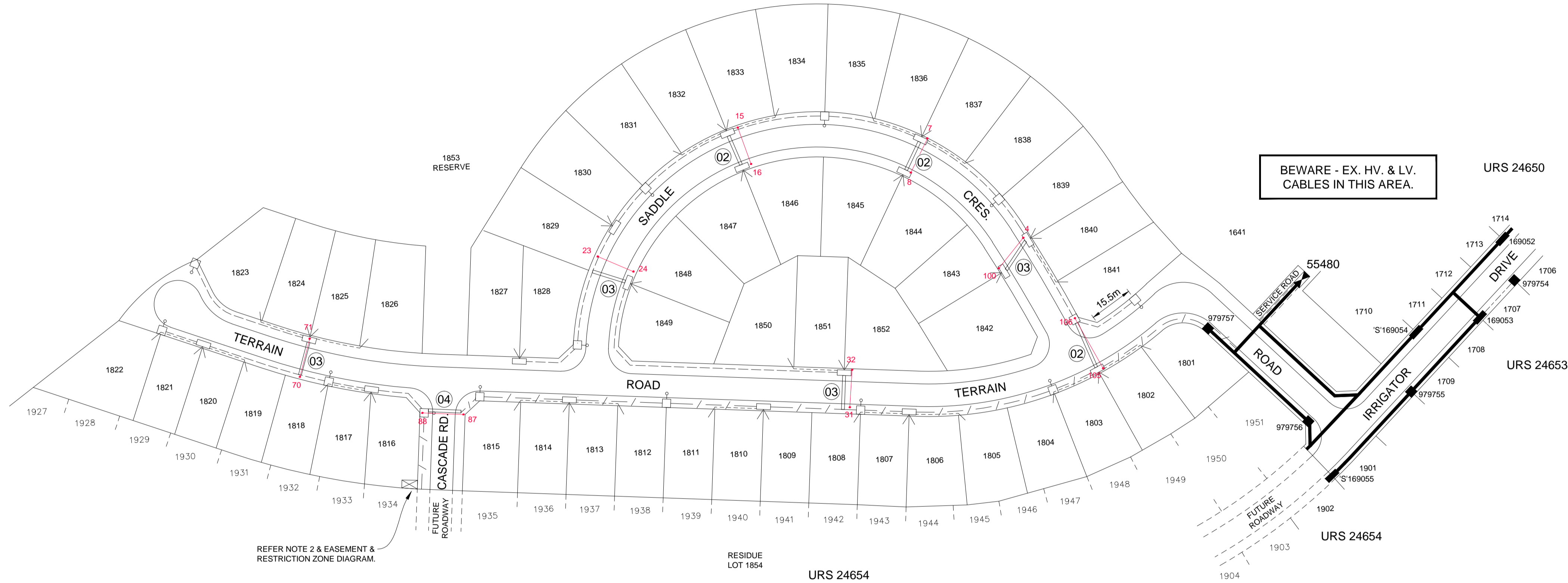
AHIP No. C0002175 APPLIES TO THIS PROJECT. LEVEL 1 ASP TO READ & FAMILIARISE HIMSELF WITH THE REQUIREMENTS OF THE DOCUMENT PRIOR TO THE COMMENCEMENT OF PROPOSED WORKS.

- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ENDEAVOUR ENERGY NETWORK STANDARDS & CONNECTION POLICY.
 - AN EASEMENT FOR SUBSTATION SITE (B) 5.5m x 2.75m (THIS IS MINIMUM SIZE ONLY) IS REQUIRED TO BE CREATED BY THE DEVELOPER OVER LOT 1816. IN ADDITION TO THE EASEMENT A RESTRICTION ON THE USE OF LAND (A) IS REQUIRED IN RELATION TO THE FIRE RATING OF BUILDINGS MEASURED 3M FROM THE PLINTH OVER LOTS 1816 & RESIDUE LOT 1854 (FUTURE LOT 1934). A RESTRICTION ON THE USE OF LAND (D) IS REQUIRED IN RELATION TO SWIMMING POOLS, MEASURED 5m RADIALLY FROM THE SUBSTATION EASEMENT OVER LOTS 1816 & RESIDUE LOT 1854 (FUTURE LOT 1934).
 - REFER TELSTRANBNB DESIGN LAYOUT FOR DUCTING AND EXCAVATION REQUIREMENTS.
 - ATTENTION - PERMANENT SURVEY MARKS MAY EXIST IN THIS AREA. THESE ARE TO BE LOCATED BY A SURVEYOR PRIOR TO THE COMMENCEMENT OF WORK.
 - WARNING - LIVE ENDEAVOUR ENERGY CABLES AND OTHER SERVICES IN THIS AREA. PLEASE CONTACT - DIAL BEFORE YOU DIG ON TEL-1100 FOR SEARCHES A MINIMUM TWO DAYS PRIOR TO EXCAVATION.
 - ALL THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION AUTHORITY POLLUTION CONTROL LEGISLATION IS TO BE STRICTLY ADHERED TO.
 - THE DEVELOPER SHALL PROVIDE UNRESTRICTED 24/7 ACCESS FOR ENDEAVOUR ENERGY STAFF AND VEHICLES.

ALL WORKS TO BE CONSTRUCTED ARE TO BE COMPLETED IN ACCORDANCE WITH ENDEAVOUR ENERGY'S GENERIC ENVIRONMENTAL PLAN - EMS 0001.

ALL SL. COLUMNS ARE TO BE INSTALLED 350mm FROM THE FRONT PROPERTY BOUNDARIES UNLESS SHOWN OTHERWISE.

- LEGEND**
- PROPOSED PADMOUNT SUBSTATION
 - EXISTING PADMOUNT SUBSTATION
 - PROPOSED LV PILLAR LOCATION
 - EXISTING LV PILLAR LOCATION
 - PROPOSED SL. COLUMN LOCATION
 - EXISTING SL. COLUMN LOCATION
 - HV CABLE TRENCH
 - LV CABLE TRENCH
 - EXISTING UNDERGROUND CABLE
 - INSTALL 40mm PVC SERVICE CONDUIT
 - PROPOSED DUCT LOCATIONS
 - EXISTING DUCT LOCATIONS
 - 01 DUCT CONFIGURATION - REFER MCI 0006 SECTION 4



DESIGN COMPLIANCE AND INDEMNITY
 This design complies with the 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

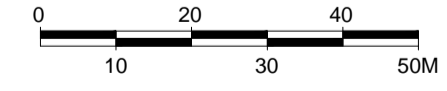
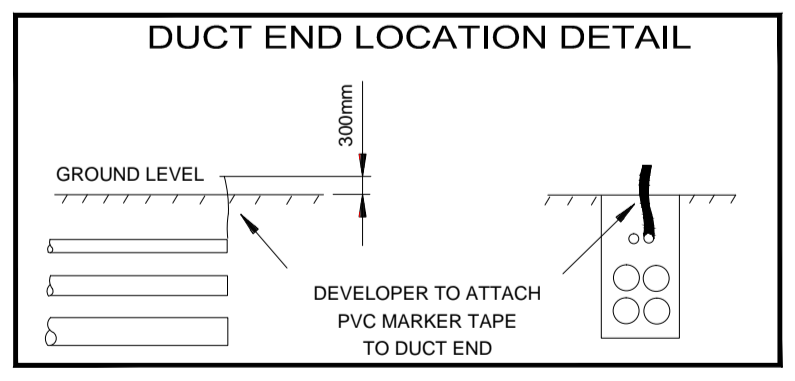
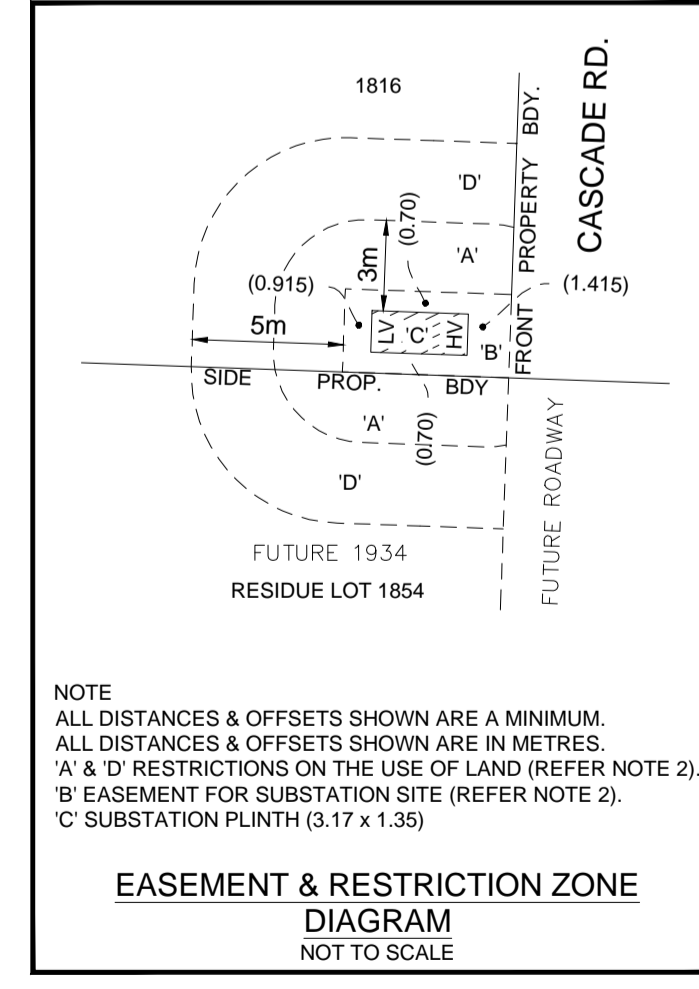
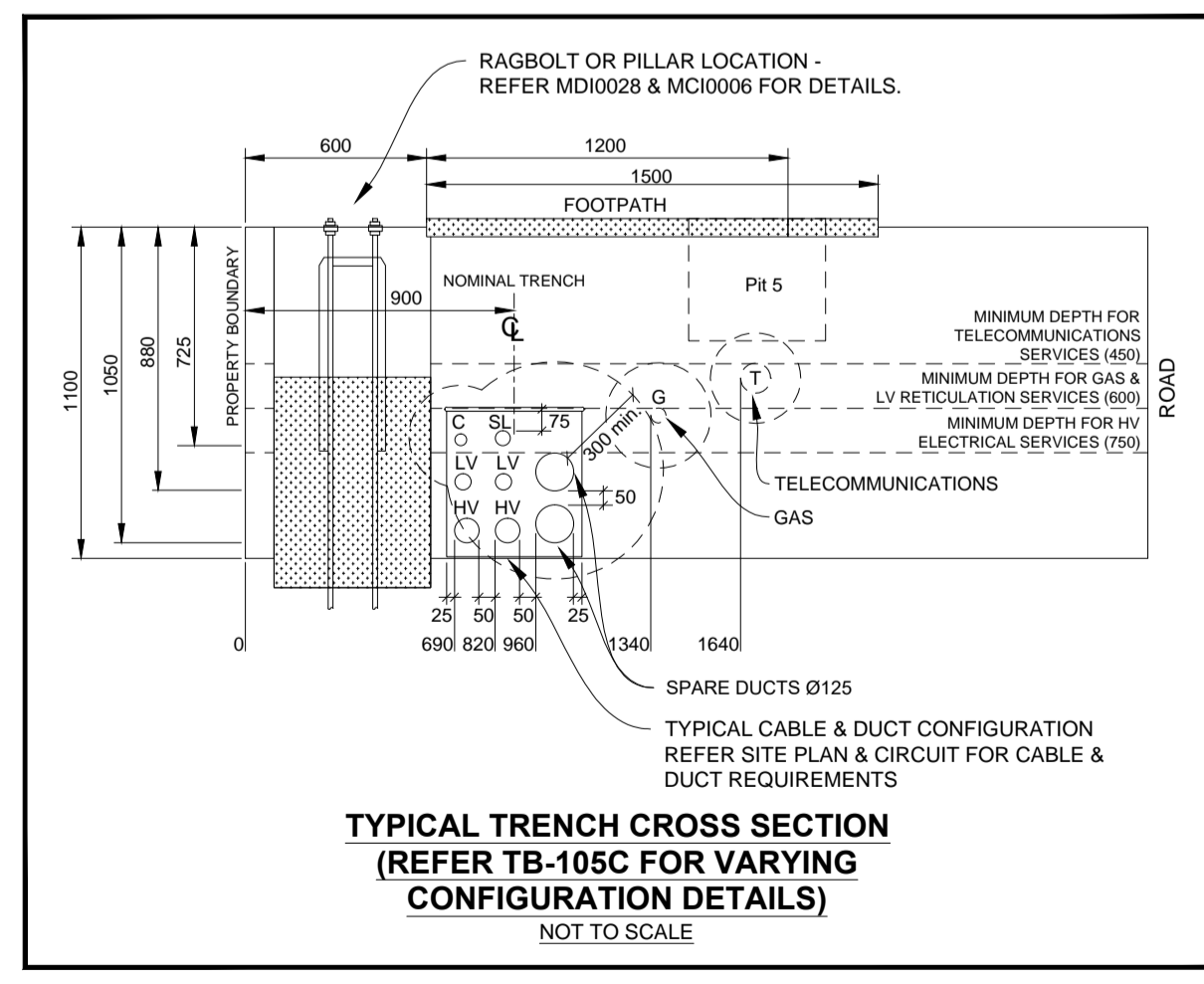
Additionally, where relevant, the design complies with AS/NZS 7000 "Overhead Line Design - Detailed Procedures" published by the Australian Standards.

ESTATE POWER DESIGN (Company name) indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: [Signature] BRIAN JUDE
 Name: BRIAN JUDE
 Service Provider Number: 1033 Date: 31/05/2022

WAE SURVEY COORDINATE TABLE

ID	EASTING	NORTHING	AHD HEIGHT	QUAL LVL	ASSET	PROP LINE	COVER
4	286604.898	6281163.367	59.42	A	RCDE	0.8	1.1
7	286570.927	6281198.517	59.559	A	RCDE	0.8	1.1
8	286565.102	6281186.431	59.729	A	RCDE	0.8	1
15	286503.809	6281202.341	61.513	A	RCDE	0.8	1
16	286508.544	6281189.48	61.365	A	RCDE	0.8	1.1
23	286454.227	6281156.735	62.036	A	RCDE	0.8	0.9
24	286466.876	6281151.423	62.205	A	RCDE	0.8	0.9
31	286543.491	6281103.397	62.172	A	RCDE	0.8	1.1
32	286544.299	6281116.643	61.118	A	RCDE	0.8	1
70	286348.77	6281114.169	63.5	A	RCDE	0.8	1
71	286352.18	6281127.643	63.546	A	RCDE	0.8	1
87	286406.679	6281100.831	63.751	A	RCDE	0.8	0.9
88	286392.114	6281101.399	63.664	A	RCDE	0.8	0.9
100	286596.254	6281152.574	59.232	A	RCDE	0.8	1
105	286633.209	6281117.193	58.674	A	RCDE	0.8	1.1
106	286623.202	6281134.92	58.701	A	RCDE	0.8	1.1



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AMENDMENTS	ISSUE ORIGINAL	DATE
A	B.J.	31/04/22
B	CHKD	B.J.
	DRWN	L.R.

CERT. PERIOD LARSED. LODGE FOR RE-CERTIFICATION.

ESTATE POWER DESIGN PTY LIMITED
 ABN 69 002 331 142
 ELECTRICAL RETICULATION CONSULTANTS
 P.O. BOX 1872, PENRITH BC, 2751
 TEL: (02) 4731-8333 FAX (02) 4731-1594
 EMAIL: brian@estatepower.com.au

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REFERENCE DRAWING'S	WORK ORDERS
522871 ELECTRICAL RETICULATION	GENERAL OVERHEAD UNDERGROUND SUBSTATIONS

CAMS File No.	URS 24652
AM PROJ. No.	
HV SWITCHING	
EE DEPOT	WINDSOR
EE REGION	NORTHERN
HV OP DIAG	NORTH RICHMOND
LOCAL GOV AREA	HAWKESBURY

ORIGINAL SCALE	1:1000
DO NOT SCALE	
DIMENSIONS IN METRES	
DESIGN	B.J.

'RIDGETOPS' STAGE 1
 NORTH RICHMOND
 URS 24652
 DUCT, EASEMENT & TRENCH REQUIREMENTS

EPD REFERENCE No.
10/233/RT1D

Endeavour Energy

A1 522870 B

SHEET No. 1 OF 1 SHEETS