

Site Plan

Scale 1:1000

DIAL BEFORE YOU DIG

Ref: 31901682 Date: 05 May, 2022
DBYD searches indicate the presence of services within the proposed work-site. The Level 1 ASP /Constructor is to confirm the location of "all" services prior to the commencement of works.

Construction of this Project

This Project will require the completion of Stage 7D under project (URS25542)
Drawings 522560A, & 522559A

Establish Proposed PMS No. 95585

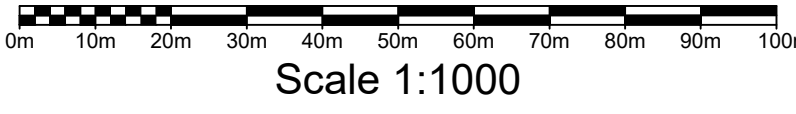
- Transformer: 500kVA (11000:433V),
- HV Switchgear: ABB Safelink, Type: "RTR",
- HV Fuses: 12kV, 50Amp (Full Range),
- LV Switchgear: Weber CAT 1, Config: "FFIFF",
- LV Fuses: LV 250A (DIN, size 2)
- Cubicle: Size 14,
- Earthing: Common (refer Earth Design).

SAP Data Sub 95585

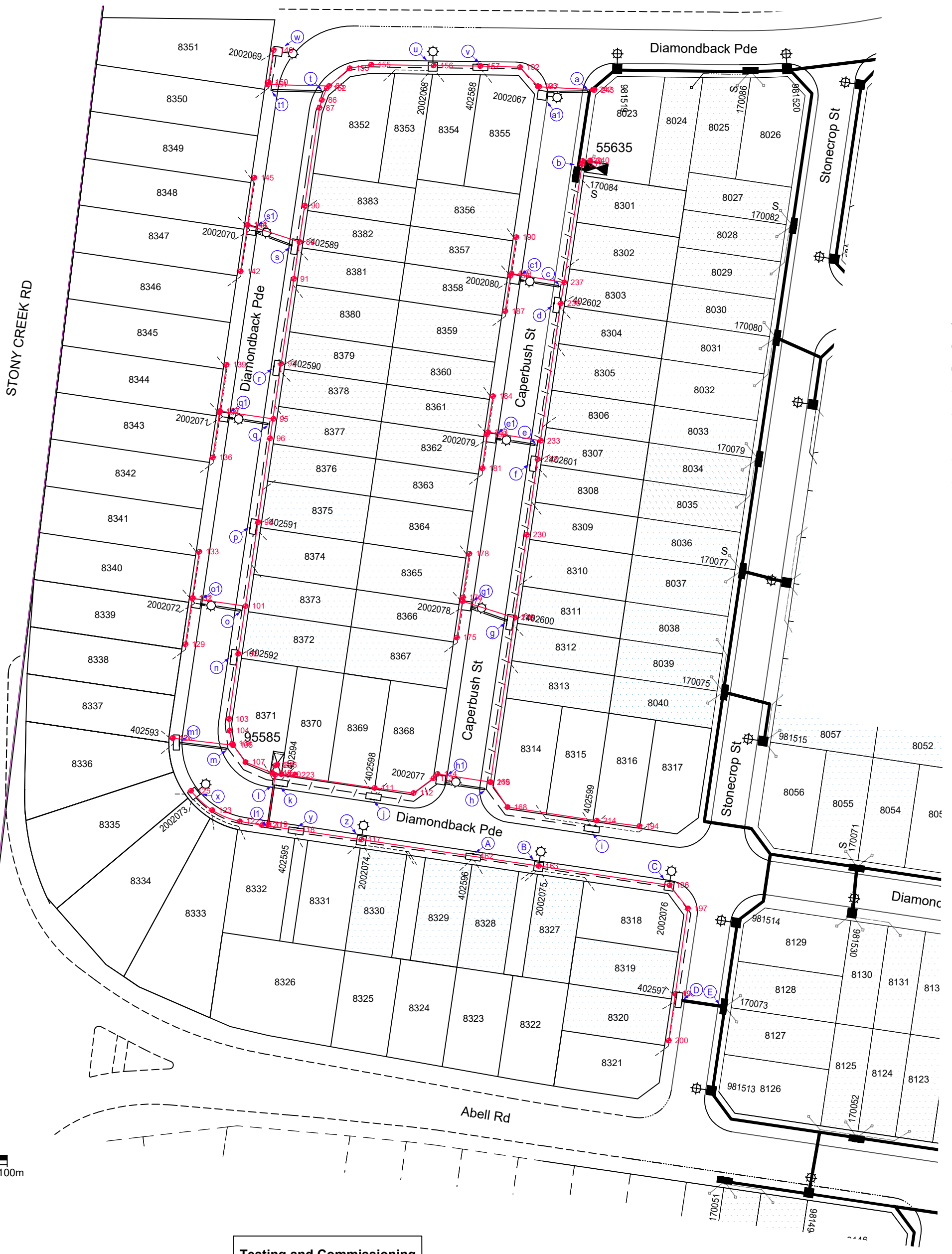
HV BusBar	19183
Trf	10003902
LV BusBar	36926

Trench Length

High Voltage Trenching	216m
Low Voltage Trenching	453m
Street Light Trenching	0m
Road Crossing	166m
Total	835m



Scale 1:1000



Caution
Existing live electrical assets located in this vicinity, appropriate safety precautions must be utilized.

Caution
High Pressure Gas Assets in this area, constructor to contact Jemena on ph 1300 665 380 prior to the commencement of works.

Caution
Telstra assets in this area. Constructor to contact Telstra on ph 1800 653 935 prior to the commencement of works.

LEGEND

- Existing Underground Cables/Conduits (Ducts)
- Existing Conduits (Ducts)
- Proposed New Conduits (Ducts)
- Street Light Trenching
- Low Voltage Trenching
- High Voltage Trenching
- Lay 40mm P.V.C. Service Conduits
- Existing Service Mains
- Pillar Excavation Location
- Existing Pillar
- Proposed Column Excavation location - 4.5m Enlarged Base Column & 3.0m Eden Outreach - Type 2 Right/Left (Type 2 Footing) - Colour Powdercoated Black
- Existing Column
- Proposed New Streetlight Lantern
- Existing Streetlight Lantern
- Proposed New Padmount Substation
- Existing Padmount Substation
- Point Indicator
- Lot Less Than 350m2 (ADMD 5.0kVA/lot).

WAE NOTES

- ONLY CHANGES MARKED UP IN RED FORM ARE PART OF THIS ASSET RECORDING.
- ALL SURFACE ASSETS WERE RECORDED AT LEVEL QUALITY 'C'.
- DUCT TABLE HAS BEEN AMENDED AS PER INSPECTION. REFER TO DUCT SCHEDULE FOR DETAILS.

WAE LEGEND

- PVC DUCTS (TRENCH)
- PVC DUCTS (UNDERBORE)
- QUALITY LEVEL DATA POINT
- PL PROPERTY LINE
- DE DUCT END
- UB UNDERBORE END

NOTE:
THE SURVEY IN THIS DRAWING HAS BEEN CONDUCTED IN GDA2020.

Painting of Columns
Local council requires a certificate from the manufacturer supplied confirming the power coated columns are in accordance with the requirements of AS/NZ 4506-2005.

Streetlight LV Supply
All active conductors extending from LV pillars to service streetlight columns to be fitted with a 16A in line fuse.

Streetlight Columns
All streetlight columns are to be installed 350mm from the property boundaries unless otherwise indicated.

Existing Conduits
All conduits are to be handreel, proven clear, free of foreign material, and deformation prior to the installation of cables.

Proposed Ducts/Conduits
All Proposed 125mm ducts / conduits are to have a minimum 750mm cover (in accordance with MD0028)

Testing and Commissioning
All required testing in accordance with SDI 120 must be performed in strict accordance with the standard.

Service Ducts
The end of service ducts must not be placed under proposed driveways. (Refer to Developers Representative for details for details)

Final Ground Level
The constructor is to confirm finished ground level with the developer prior to the commencement of construction.

Pollution
Requirements of the environmental protection authority pollution control legislation is to be strictly adhered to.

Design Compliance and Indemnity

This design complies with Endeavour Energy's relevant standards as current at the time & 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,
- FDI: Protection Design Instruction,
- SDI: Substation Design Instruction,
- SAD: Design Drawing Standard,
- MMI: Mains Maintenance Instruction,
- SMI: Substation Maintenance Instruction,
- LDI: Public Lighting Electrical Design Element,

Additionally, where relevant, the design complies with AS/NZS7000 "Overhead Line Design - Detailed Procedures" published by The Australian Standards.

Power Line Design Pty Ltd indemnifies Endeavour Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: Michael J Baranowski
Name: Michael J Baranowski
Service Provider Number: 2486 Date: 12-05-2022

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY: C.J. DOYLE CONTRACTING

WORKS COMPLETED: CHRIS JOWETT
SIGNATURE: C.J. DOYLE DATE: 28/09/23

INSPECTED BY: MICHAEL WEIR
SIGNATURE: _____ DATE: _____

ASSET RECORDING

INSPECTED BY: STEVE FRIDAY
OF: C.J. DOYLE CONTRACTING
CONTACT No: 8784-1922

HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.
SIGNATURE: STEVE FRIDAY DATE: 26/09/23

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: _____

Notes

- This drawing is to be read in conjunction with the relevant Endeavour Energy Network Standards and Connection Policy.
- Endeavour Energy Contact Phone: 131081.
- Design certification shall lapse where:
 - (i) notice of intent has not been received within six (6) months of this certification, or
 - (ii) construction has been interrupted for more than six (6) months.
 where design certification has lapsed the design must be resubmitted for certification by the accredited designer.
- Accredited Service Provider to notify Endeavour Energy asset data customer department daily when cable works is in progress. (ph. 131 081).
- ATTENTION:** Permanent survey marks may exist in this area, these are to be located by a surveyor prior to commencement of work.
- ATTENTION:** All services searches must be checked before construction.
- ATTENTION:** The preparation of this design has been undertaken giving due consideration to the location of existing services. The Constructor is however responsible for the verification of services and permanent survey marks prior to the commencement of construction. No responsibility nor liability will be accepted by the designer for damage to existing services as a result of this design.
- WARNING:** Live Endeavour Energy cables & other services in this area. Please contact "Dial Before You Dig" on telephone: 1100 for searches two days prior to excavation.
- Material Quantities Specified on this Design:** The quantities or dimensions specified on this design are based on design information supplied and site conditions at the time of the design. As quantities and dimensions are subject to change, the Constructor must check all quantities and dimensions on site prior to tendering and prior to construction.
- Reimbursements:** Reimbursements will be paid to the nominated party on the letter of intent after the works have been completed and the letter of acceptance has been issued. The reimbursed amount is shown in the "Funding Arrangements for Scope of Work Table". Any disagreement with the amount should be resolved with Endeavour energy prior to the commencement of works.
- Operational Limitations:** 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/developer.
- Environmental Management plan:** EMP EMS0001 is part of this design (refer to EIA for details).
- Pollution Controls:** All the requirements of the Environmental Protection Authority pollution control legislation is to be strictly adhered to.
- Aboriginal Heritage:** If during construction of this project the constructor or developer becomes aware of any previously unidentified Aboriginal Object(s), all work likely to affect the object(s) shall cease immediately, and the Office of Environment & Heritage shall be notified immediately in accordance with section 89a of the National Parks & Wildlife ACT 1974. Works shall not recommence until written authorization from the NSW Office of Environment and Heritage has been issued, in addition to written consent from the local aboriginal land council.
- Heritage:** If during construction of this project the constructor or developer becomes aware of any previously unidentified heritage object(s), all work likely to affect the object(s) shall cease immediately, and the Heritage Council of NSW shall be notified immediately in accordance with Section 146 of the Heritage ACT1977. Works shall not recommence until written authorization from the heritage council has been issued.
- Telecommunications:** Telecommunications assets are NOT affected by the proposed works.
- Existing Assets:** Have all the existing assets been field checked and are accurate at the time of design? **YES**

APPROVAL TO CONNECT TO PUBLIC LIGHTING

Reviewers Name: _____
Date Approved: _____
Reviewers Signature: _____
This Approval is issued subject to Endeavour Energy's General Terms & Conditions for Connection of Public Lighting and is specifically for drawing No. _____ Amendment _____

Funding Arrangements for Scope of Works

ASP Level 1 Electrical Works		Customer
Endeavour Energy Supplied Materials	Customer Funded Non-Contestable Works	Customer Funded
NIL	All works associated with the inspection, testing, switching and the commissioning associated with this project.	Including but not limited to: <ul style="list-style-type: none"> Flagging of easements, property boundaries and infrastructure locations, Registering of Easements, Provide Site Access, Own Service and Service connections, Confirm ground levels.
Endeavour Energy Funded & Constructed	Customer Funded Contestable Works	Existing Duct Usage Charges (excl GST)
Works Required Prior to Completion of Customer Contestable Project	Works Required in Association of Customer Contestable Project	Total Usage \$0.00
NIL	NIL	Co-ordination Supply Required Date
Endeavour Energy Funded & Level 1 ASP Constructed - Reimbursement (excl GST)	All other works and materials including but not limited to: <ul style="list-style-type: none"> Substation establishment & installation, Excavation & Trenching, Duct Installation, Cable Installation (Pulling & Laying), Cable Joining, Installation of Earthing, Removal of Redundant Assets. 	01/11/2022
Item	Amount	Assets to be Returned to the nearest Endeavour Energy Depot.
1x 500kVA (11000:433V) PMS Trfs	\$12 576.00	NIL
Total EE Capital Contribution (excl. PM & Design)	\$12 576.00	
Total EE Capital Contribution (HV reimbursement)	\$13 796.00	

KEY DOCUMENTS TABLE

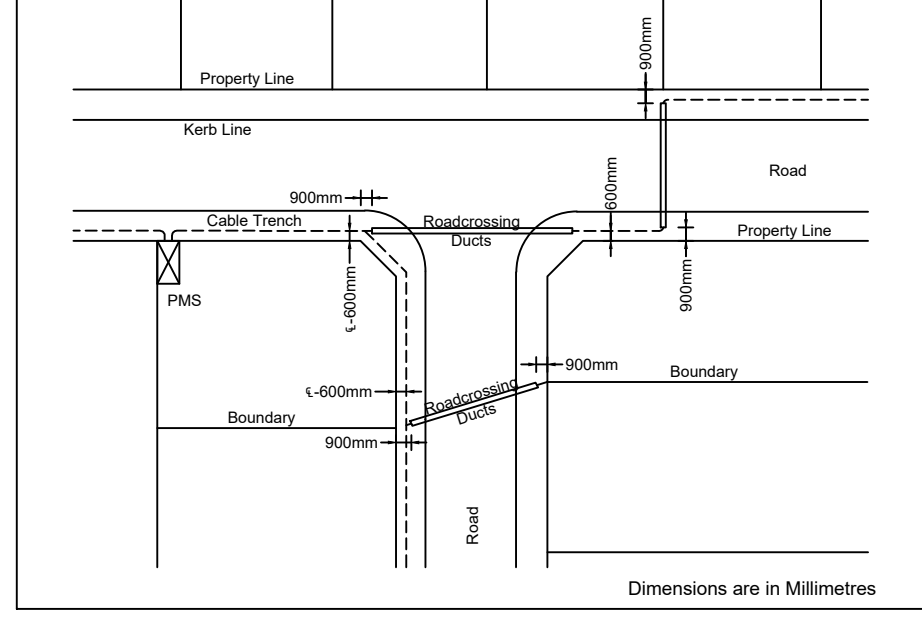
The Certification of this project is supported by the following key documents

Document Name	Notation Date
Summary Environmental Report - FAT0038 (EM50001)	09 May, 2022
Safe Design Report	09 May, 2022

Pioneer Cost Share Reimbursement SCHEME - Expiry Date : N/A
Pro-Rate Reimbursement for Customer's Load Over 50kVA

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

TYPICAL ROAD CROSSING CONFIGURATION



Lighting Equipment & Billing Schedule

State	Luminaire Number	Support Number	Luminaire			Column / Pole			Outreach / Bracket			Upcast Angle	Category	Mounting Height	Column Colour	Charge To
			Description	Part No.	Rate Code	QTY	Description	Part No.	Rate Code	QTY	Description					
New	302737 - 302750	2002067 - 2002080	17W StreetLED (Gerard)	JLB99G05L17	889	14	4.5m Enlarged Base Column	IE/4.5.EB	Type 2 / Type 2 (<9.0m)	995	14	5°	PR5	6.5m	Black	Blacktown City Council

This Drawing Supplies 83 Lots (Subdivision of Lot 3, DP1230408)

C.A.P. No.	Lot Numbers	No. of Lots	Developer	Developers Representative	Contact No.
URS25734	Lot 8301 to 8383	83	Woorong Park Pty Limited	Briony Traish / Tana Sainsbury (J. Wyndham Prince)	(02) 4720 3319

AMENDMENTS

ORIGINAL ISSUE

DRAFT No. 01

powerlinedesign

POWER LINE DESIGN PTY LTD
PO BOX 338 Mittagong NSW 2575
Ph (02) 4872 1920 Fax (02) 4872 1240
Accredited Designer Number 2068 / ABN: 33107 591 846

PLD Ref: 3865

TEMPLATE VERSION No. 319

Reference Drawings

526342A	(URS25734) Duct Trench & Easement
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Work Orders

General	
Overhead	
Underground	
Substations	

CAMS File No. URS25734

AM Project No.

HV Switching

EE Depot

EE Region

HV OP Diagram

Local Government Area

Kings Park

Northern

Marsden Park

Blacktown City

ORIGINAL SCALE 1:1000

DO NOT SCALE

Dimensions in Meters

Drawn: Michael J.B

Date: 12-05-2022

Ch'd: Michael J.B

Design: Michael J.B

Off Richmond Road
MARSDEN PARK
URS25734
Stage 7E

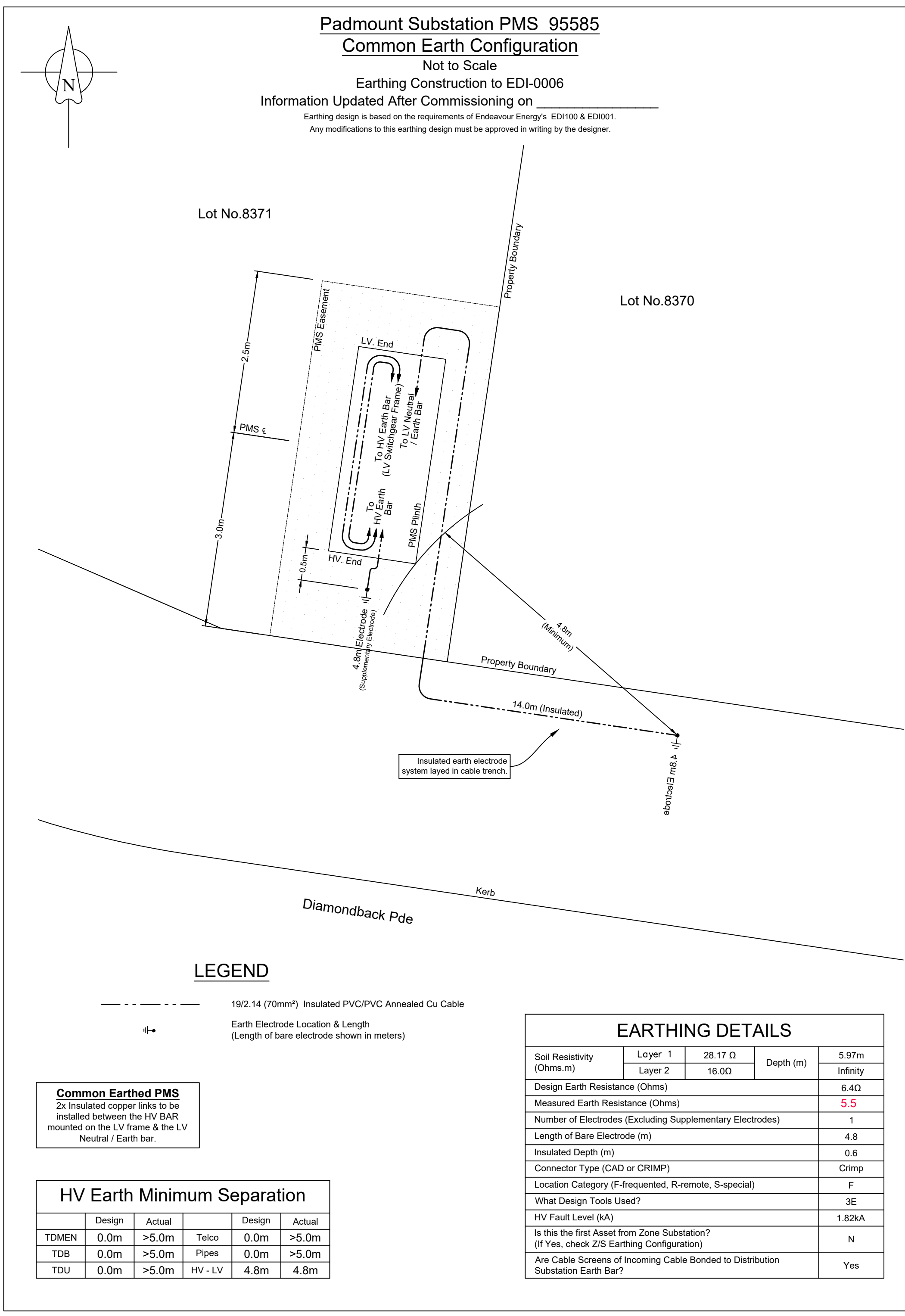
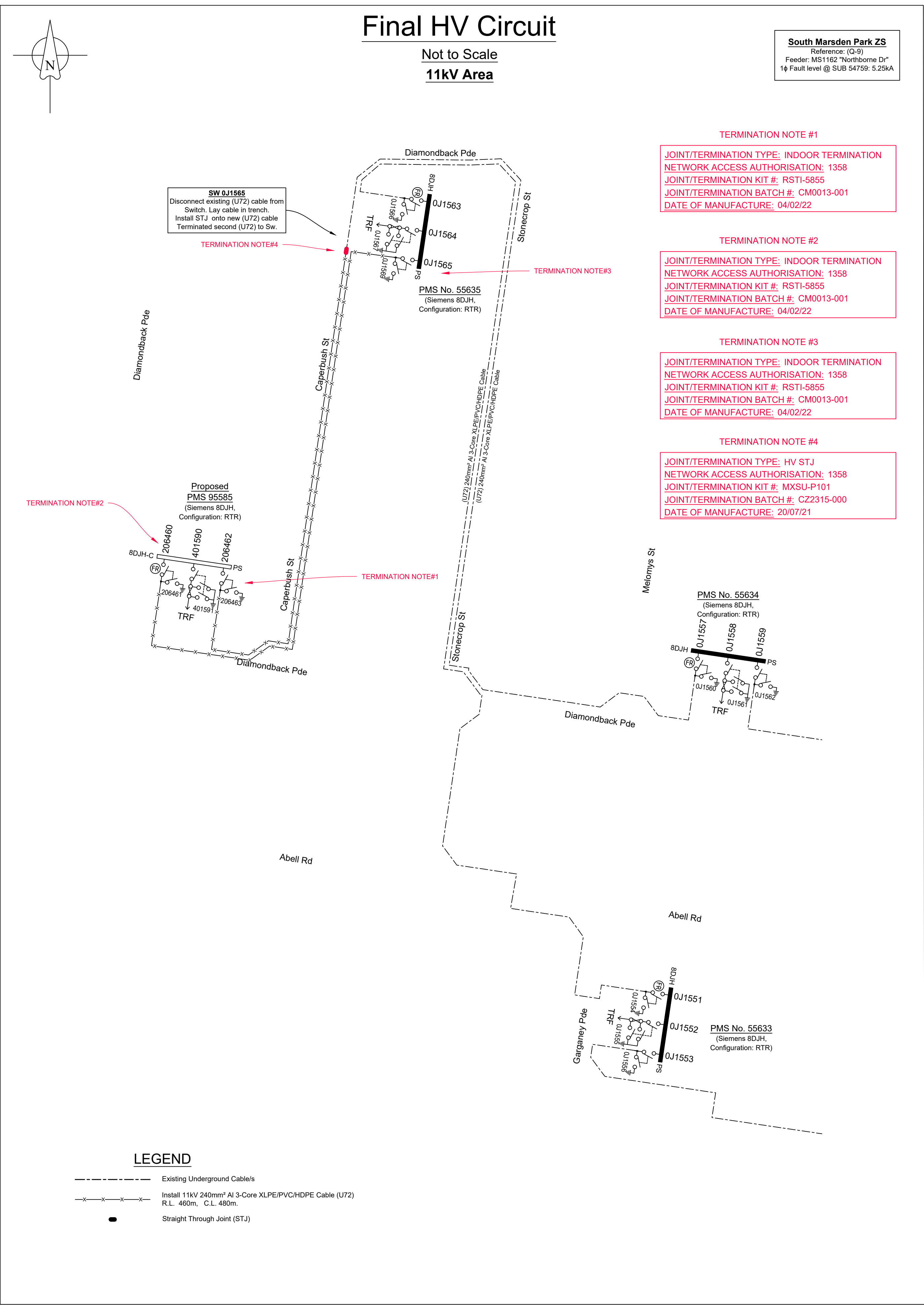
Electrical Reticulation

Endeavour Energy

A1 526343 A

SHEET No 1 OF 5 SHEETS

#4299



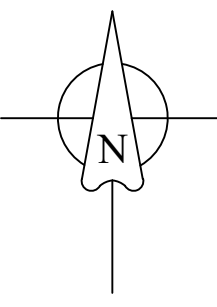
Certified by Endeavour Energy

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

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

Final LV Circuit

Not to Scale

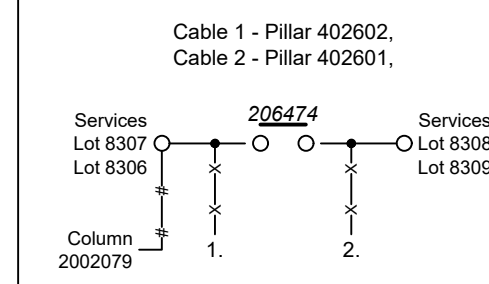


New Labels
PM Sub. 55635
S - Pillar 402588

New Labels
PM Sub. 95585

R - Pillar 402594	206464
S - Spare (N/O)	206465
T - Transformer	401591
U - Pillar 402592	206466
V - Pillar 402595	206467
G - Generator Fuse Strip	206468

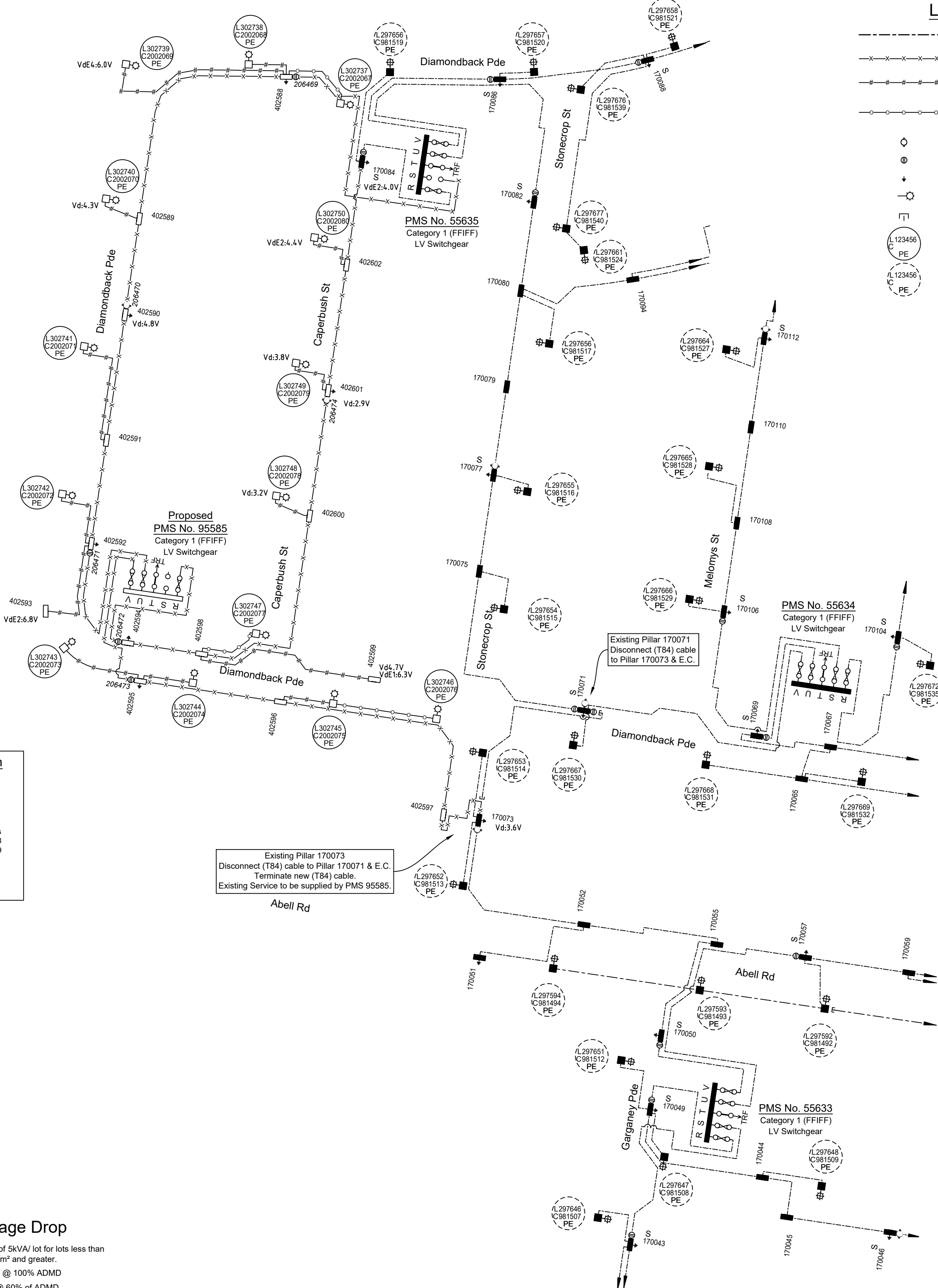
Pillar 402601 Linking Diagram
(Normal Link Positions Shown)



Existing Pillar 170073
Disconnect (T84) cable to Pillar 170071 & E.C.
Terminate new (T84) cable.
Existing Service to be supplied by PMS 95585

LEGEND

- Existing Underground Cable/s.
- Install 240mm² Al 4-Core XLPE/PVC Cable (T84)
R.L. 720m, C.L. 774m.
- Install 50mm² Cu 4-Core XLPE/PVC Cable (T94)
R.L. 410m, C.L. 440m.
- Install 1x 16mm² Cu 2-Core XLPE/PVC Cable
In 50mm Conduit and a Spare 50mm Conduit.
R.L. 81m, C.L. 89m.
- ◇ LV Isolation Switch/Links (N/O)
- LV Isolation Switch/Links (N/C)
- ⊕ Pillar Earth
- ⊕ Proposed New Street Light Lantern - 17W StreetLED
- End Cap (E.C.)
- Lantern Number - Proposed Asset
Column Number - Proposed Asset
(PE Controlled)
- Lantern Number - Existing Asset
Column Number - Existing Asset
(PE Controlled)



Certified by Endeavour Energy

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

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WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY **C.J. DOYLE CONTRACTING**

WORKS COMPLETED **CHRIS JOWETT**

SIGNATURE **C.J. JOWETT** DATE **26/09/23**

INSPECTED BY **MICHAEL WEIR**

SIGNATURE _____ DATE _____

ASSET RECORDING

I, **STEVE FRIDAY**

OF **C.J. DOYLE CONTRACTING**

CONTACT No. **8784-1922**

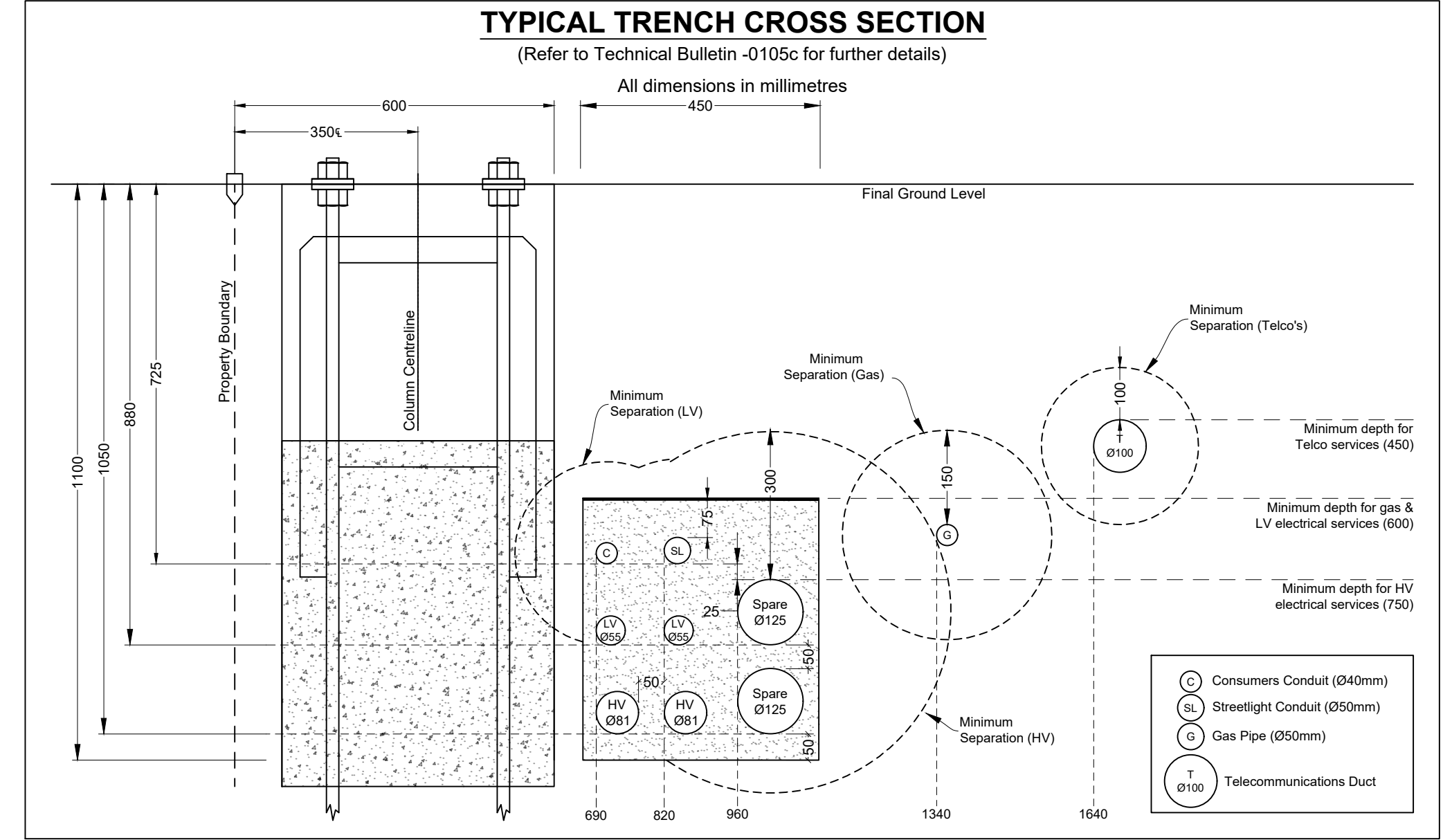
HEREBY CERTIFY THAT ASSETS MARKED AS-BUILT ON THIS DRAWING HAVE BEEN RECORDED AS PER ENDEAVOUR ENERGY STANDARD SAD 0004.

SIGNATURE **STEVE FRIDAY** DATE **26/09/23**

Legend for LV Voltage Drop

Voltage Drop Calculations Based on an ADMD of 5kVA/lot for lots less than 350m², and 6.5kVA/lot for lots 350m² and greater.
Vd = Voltage drop for normal supply @ 100% ADMD
Emergency / backup voltage drop @ 60% of ADMD

	Supply Sub (Fuse Strip)	Backed Up Sub (Fuse Strip)
VdE1	PMS 55365 (R)	PMS E1 (R)
VdE2	PMS E1 (R)	PMS 55365 (R)
VdE3	PMS 55365 (S)	PMS E1 (U)
VdE4	PMS E1 (U)	PMS 55365 (S)
VdE5	PMS 55633 (V)	PMS E1 (V)
VdE6	PMS E1 (V)	PMS 55633 (V)



Duct Breakdown Table										
Route	Configuration	Route Length	Duct Re-Imbursement				Duct Usage Charge			
			No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)	No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)
a → b	Install new LV Cable in Existing Duct	21m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
b → c	New HV Trenching	33m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
c → d	New HV Trenching	5m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
d → e	New HV Trenching	35m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
e → f	New HV Trenching	5m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
f → g	New HV Trenching	43m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
g → h	New HV Trenching	45m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
h → i	New LV Trenching	31m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
h1 → j	New HV Trenching	18m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
j → k	New HV Trenching	27m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
k → l	New HV Trenching	1m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
l → m	New LV Trenching	14m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
m → n	New LV Trenching	24m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
n → o	New LV Trenching	13m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
o → p	New LV Trenching	23m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Total			\$ 0		\$ 0					

Duct Breakdown Table										
Route	Configuration	Route Length	Duct Re-Imbursement				Duct Usage Charge			
			No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)	No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)
p → q	New LV Trenching	27m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
q → r	New LV Trenching	15m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
r → s	New LV Trenching	32m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
s → t	New LV Trenching	42m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
t → u	New LV Trenching	33m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
u → v	New LV Trenching	13m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
v → a1	New LV Trenching	19m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
t1 → w	New LV Trenching	10m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
x → l1	New LV Trenching	26m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
l1 → y	New LV Trenching	8m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
y → z	New LV Trenching	18m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
z → A	New LV Trenching	30m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
A → B	New LV Trenching	18m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
B → C	New LV Trenching	35m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
C → D	New LV Trenching	32m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Total			\$ 0		\$ 0					

Duct Breakdown Table										
Route	Configuration	Route Length	Duct Re-Imbursement				Duct Usage Charge			
			No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)	No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)
D → E	Existing Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
a → a1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
c → c1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
e → e1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
g → g1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
h → h1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
l → l1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
m → m1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
o → o1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
q → q1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
s → s1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
t → t1	Proposed Road Crossing	16m	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Total			\$ 0		\$ 0					

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY: **C.J. DOYLE CONTRACTING**

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Amendment: _____

Date Approved: _____

Examiner's Signature: _____

Print Name: _____

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

Conduit / Cable Legend

- LV Cable - Direct Buried.
- HV Cable - Direct Buried.
- 50mm Duct - Spare.
- 50mm Duct - with Existing Cable.
- 50mm Duct - with New SL Cable.
- 125mm Duct - with Existing LV Cable.
- 125mm Duct - with Existing HV Cable.
- 125mm Duct - with New LV Cable.
- 125mm Duct - with New HV Cable.
- 125mm Duct - Spare.

WAE SURVEY COORDINATE TABLE - GDA2020								
NODE ID #	QUALITY LEVEL	ASSET TYPE	PROPERTY LINE	COVER	NOTES	EASTING	NORTHING	REDUCED/SURFACE LEVEL
85	A	DUCT CROSSING	NA	-0.75		294834.28	6269008.33	17.03
86	A	ROUTE	0.99	-0.75		294832.36	6269004.61	17.27
87	A	ROUTE	0.88	-0.75		294831.75	6269002.53	17.3
89	A	DUCT CROSSING	NA	-0.75		294826.49	6268966.95	16.91
90	A	ROUTE	0.93	-0.75		294827.83	6268976.59	17.46
91	A	ROUTE	0.93	-0.75		294824.96	6268957.19	17.6
93	A	ROUTE	0.96	-0.75		294821.61	6268934.69	17.66
95	A	DUCT CROSSING	NA	-0.75		294819.5	6268920.07	17.35
96	A	ROUTE	0.99	-0.75		294818.63	6268914.89	17.81
98	A	ROUTE	0.91	-0.75		294815.44	6268892.66	18.08
101	A	DUCT CROSSING	NA	-0.75		294812.17	6268870.42	17.79
102	A	ROUTE	0.99	-0.75		294810.23	6268857.82	18.28
103	A	SPLAY ROUTE	0.84	-0.75		294807.77	6268840.53	18.48
104	A	SPLAY ROUTE	0.99	-0.75		294807.95	6268837.4	18.59
105	A	DUCT CROSSING	NA	-0.75		294808.88	6268833.54	18.22
106	A	SPLAY ROUTE	0.94	-0.75		294808.62	6268833.95	18.26
107	A	SPLAY ROUTE	0.99	-0.75		294812.12	6268829.07	18.6
109	A	DUCT CROSSING	NA	-0.75		294819.98	6268825.69	18.35
110	A	DUCT END	0.99	-0.75		294821.65	6268825.87	18.46
111	A	ROUTE	0.98	-0.75		294846.35	6268822.2	18.72
112	A	SPLAY ROUTE	0.84	-0.75		294856.67	6268820.87	18.92
113	A	DUCT END	0.81	-0.75		294861.99	6268824.79	18.8
114	A	DUCT CROSSING	NA	-0.75		294863.04	6268825.92	18.29
117	A	ROUTE	0.9	-0.75		294842.84	6268808.51	18.79
118	A	ROUTE	0.9	-0.75		294825.33	6268811.09	18.54
119	A	DUCT CROSSING	NA	-0.75		294818.14	6268812.53	18.25
120	A	ROUTE	0.87	-0.75		294816.5	6268812.37	18.53
122	A	ROUTE	0.99	-0.75		294810.61	6268813.35	18.54
123	A	ROUTE	0.95	-0.75		294803.3	6268816.32	18.5
125	A	DUCT END	0.95	-0.75		294797.72	6268821.44	18.5
126	A	DUCT CROSSING	NA	-0.75		294792.89	6268835.4	18.21
127	A	ROUTE	0.86	-0.75		294792.86	6268835.49	18.24
129	A	ROUTE	0.8	-0.75		294796.21	6268860.3	18.3
131	A	ROUTE	0.87	-0.75		294798.07	6268872.45	18.01
132	A	DUCT CROSSING	NA	-0.75		294798.11	6268872.57	17.92
133	A	ROUTE	0.86	-0.75		294799.92	6268884.83	18.01
136	A	ROUTE	0.74	-0.75		294803.48	6268909.84	17.94
137	A	DUCT CROSSING	NA	-0.75		294805.37	6268922.13	17.59
138	A	ROUTE	0.78	-0.75		294805.26	6268921.74	17.76
139	A	ROUTE	0.76	-0.75		294807.13	6268934.41	17.71
142	A	ROUTE	0.82	-0.75		294810.87	6268959.17	17.61
143	A	DUCT CROSSING	NA	-0.75		294812.73	6268971.44	17.1
144	A	ROUTE	0.79	-0.75		294812.64	6268971.48	17.19
145	A	ROUTE	0.8	-0.75		294814.5	6268983.99	17.24
149	C	DUCT END	0.93	-0.75		294819.58	6269017.83	17.25
150	A	ROUTE	0.88	-0.75		294818.26	6269009.32	17.42
151	A	DUCT CROSSING	NA	-0.75		294818.08	6269008.71	16.9
152	A	SPLAY ROUTE	0.83	-0.75		294833.68	6269007.71	17.26
153	A	SPLAY ROUTE	0.99	-0.75		294839.71	6269013	17.32
155	A	SPLAY ROUTE	0.99	-0.75		294845.45	6269013.97	17.28
156	A	ROUTE	0.98	-0.75		294862.02	6269013.73	17.13
157	A	ROUTE	0.99	-0.75		294874.39	6269013.59	17.09
162	A	ROUTE	0.91	-0.75		294872.64	6268804.07	18.99
163	A	ROUTE	0.9	-0.75		294889.89	6268801.54	19.04
168	A	SPLAY ROUTE	0.96	-0.75		294881.6	6268817.12	18.94
169	A	DUCT CROSSING	NA	-0.75		294877.03	6268823.78	18.35
173	A	DUCT CROSSING	NA	-0.75		294883.48	6268867.32	17.79
175	A	ROUTE	0.67	-0.75		294868.17	6268862.11	18.11
176	A	ROUTE	0.75	-0.75		294869.78	6268872.74	17.89
177	A	DUCT CROSSING	NA	-0.75		294869.76	6268871.67	17.79
178	A	ROUTE	0.73	-0.75		294871.5	6268884.31	18.01
181	A	ROUTE	0.81	-0.75		294874.94	6268906.94	17.8
182	A	ROUTE	0.7	-0.75		294876.14	6268915.94	17.37
183	A	DUCT CROSSING	NA	-0.75		294876.44	6268916.54	17.35
184	A	ROUTE	0.8	-0.75		294877.75	6268926.07	17.67
187	A	ROUTE	0.74	-0.75		294881.01	6268948.6	17.25
188	A	ROUTE	0.68	-0.75		294882.34	6268958	17.01
189	A	DUCT CROSSING	NA	-0.75		294882.66	6268958.58	17.02
190	A	ROUTE	0.72	-0.75		294883.9	6268968.22	17.19
192	A	SPLAY ROUTE	0.83	-0.75		294884.88	6269013.29	17.02
193	A	SPLAY ROUTE	0.99	-0.75		294889.58	6269008.28	16.93
194	A	ROUTE	0.7	-0.75		294916.54	6268812.11	19.23
196	A	SPLAY ROUTE	0.95	-0.75		294924.54	6268796.43	19.17

197	A	SPLAY ROUTE	0.94	-0.75		294929.4	6268790.27	19.54
198	A	DUCT CROSSING	NA	-0.75		294926.16	6268767.64	19.99
199	A	ROUTE	0.87	-0.75		294926.13	6268767.67	19.84
200	A	ROUTE	0.8	-0.75		294924.33	6268755.24	20.22
214	A	DUCT END	0.98	-0.75		294905.23	6268813.53	19.2
215	A	DUCT END	0.81	-0.75		294877.11	6268823.75	18.62
216	A	ROUTE @ SUB	INSIDE EASEMENT	-0.75		294820.59	6268828.37	18.39
217	A	EARTH STAKE	INSIDE EASEMENT	-0.75		294820.05	6268828.18	18.4
218	A	DUCT END	0.97	-0.75		294819.19	6268826.22	18.43
223	A	EARTH STAKE	0.59	-0.75		294825.27	6268825.73	18.55
226	A	ROUTE	0.87	-0.75		294883.51	6268867.4	17.99
230	A	ROUTE	0.93	-0.75		294886.7	6268889.31	17.81
232	A	ROUTE	0.98	-0.75		294889.59	6268909.37	17.7
233	A	DUCT CROSSING	NA	-0.75		294890.41	6268914.25	17.42
236	A	ROUTE	0.99	-0.75		294895.73	6268950.63	17.43
237	A	DUCT CROSSING	NA	-0.75		294896.63	6268956.22	17.03
239	A	DUCT END	0.81	-0.75		294901.49	6268988.44	17.21
240	A	ROUTE @ SUB	INSIDE EASEMENT	-0.75		294903.45	6268988.52	17.1
242	A	DUCT CROSSING	NA	-0.75		294904.2	6269007.35	16.73
243	A	EXISTING SPLAY ROUTE	NA	-0.75		294904.64	6269007.26	17.18
247	A	DUCT CROSSING	NA	-0.75		294889.98	6269008.12	16.92
331	A	STJ HV	0.62	-1.09		294901.39	6268987.61	16.91

WAE SURVEY COORDINATE TABLE - GDA2020 - SURFACE ASSETS					
NODE ID #	ASSET TYPE	NOTES	EASTING	NORTHING	REDUCED/SURFACE LEVEL
301	PAD MS 95585		294821.28	6268828.28	19.39
302	PAD MS 95585		294819.91	6268828.49	19.38
303	PAD MS 95585		294820.41	6268831.66	19.39
304	PAD MS 95585		294821.77	6268831.46	19.46
305	PILLAR 402597		294925.96	6268767.22	20.88
306	S/L 2002076		294924.38	6268796.04	20.19
307	S/L 2002075		294889.75	6268801.21	19.88
310	PILLAR 402596		294872.5	6268803.7	19.86
313	S/L 2002074		294842.69	6268808.18	19.61
314	PILLAR 402595		294825.63	6268810.72	19.48
317	S/L 2002073		294797.52	6268821.12	19.34
318	PILLAR 402593		294792.59	6268835.59	19.27
319	S/L 2002072		294797.75	6268872.62	18.97
320	PILLAR 402592		294810.73	6268857.76	19.01
321	PILLAR 402591		294815.81	6268892.58	18.82
322	PILLAR 402590		294822.06	6268934.71	18.46
323	S/L 2002071		294805.11	6268922.09	18.6
324	S/L 2002070		294812.43	6268971.61	18.27
325	PILLAR 402589		294826.75	6268966.74	18.25
326	S/L 2002069		294819.25	6269017.92	18.2
327	S/L 2002068		294861.95	6269013.25	18
328	PILLAR 402588		294874.63	6269013.2	17.99
329	S/L 2002067		294889.48	6269007.42	17.78
332	PAD MS 55635		294903.57	6268987.85	17.99
333	PAD MS 55635		294903.76	6268989.2	17.97
334	PAD MS 55635		294906.99	6268988.71	18
335	PAD MS 55635		294906.76	6268987.38	18.02
336	PILLAR 170084	EXISTING	294901.21	6268985.75	17.98
337	S/L 2002080		294882.29	6268958.66	18.16
338	PILLAR 402602		294896.26	6268951.32	18.26
339	PILLAR 402601		294890.07	6268909.28	18.64
340	S/L 2002079		294876.06	6268916.54	18.51
341	S/L 2002078		294869.45	6268872.02	18.95
342	PILLAR 402600		294883.84	6268867.18	18.97
343	PILLAR 402599		294904.34	6268814.11	20.01
344	S/L 2002077		294862.65	6268825.85	19.44
345	PILLAR 402598		294846.44	6268822.63	19.55
346	PILLAR 402594		294821.71	6268826.37	19.41
348	PILLAR 170073	EXISTING	294940.48	6268765.32	20.83

WORK COMPLETED / FIELD BOOK

CONSTRUCTED BY C.J. DOYLE CONTRACTING

WORKS COMPLETED CHRIS JOWETT

SIGNATURE C.J. DOYLE DATE 26/09/23

INSPECTED BY MICHAEL WEIR

SIGNATURE _____ DATE _____

ASSET RECORDING

I, STEVE FRIDAY

OF C.J. DOYLE CONTRACTING

CONTACT No 8784-1922

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

SIGNATURE STEVE FRIDAY DATE 26/09/23