

Document Name	Notation Date
Equipment to be returned to Endeavour Energy - FPJ4252	29 August 2022
Safe Design Report	29 August 2022
Summary Environmental Report - FAT0038 (EMS0001)	29 August 2022

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

KEY DOCUMENTS TABLE	
Equipment to be returned to Endeavour Energy - FPJ4252	29 August 2022
Safe Design Report	29 August 2022
Summary Environmental Report - FAT0038 (EMS0001)	29 August 2022

ANNEAMENTS	ORIGINAL ISSUE	DATE	BY	REVISION
A	Original Issue	02-05-2024	Michael J.B	1
B	Design	18-08-2024	Michael J.B	2
C	Check	18-08-2024	Michael J.B	3
D	Draw	18-08-2024	Michael J.B	4
E	Design	18-08-2024	Michael J.B	5
F	Check	18-08-2024	Michael J.B	6
G	Draw	18-08-2024	Michael J.B	7
H	Design	18-08-2024	Michael J.B	8
I	Check	18-08-2024	Michael J.B	9
J	Draw	18-08-2024	Michael J.B	10

The preparation of this design has been undertaken giving due consideration to the existing services. The project contributor is wholly responsible for verifying the exact location of existing services and permit survey marks prior to commencing construction. No responsibility or liability will be accepted by the designer of this project for damage to existing services as a result of this design.

POWER LINE DESIGN PTY LTD
 Ph (02) 4872 1920 Fax (02) 4872 1240
 Accredited Designer Number: 2486 / ACRN 33107 991 848

Reference Drawings	Work Orders	CAMS File No.	URS26188
527571C	URS26188 Electrical Reticulation	AM Project No.	
		HV Switching	
		EE Depot	Kings Park
		EE Region	Northern
		HV OP Diagram	Marsden Park
		Local Government Area	Blacktown City

ORIGINAL SCALE	DO NOT SCALE
1:1000	Dimensions
Drawn	Michael J.B
Date	02-05-2024
Chd	Michael J.B
Design	Michael J.B

Off Richmond Road	MARSDEN PARK
URS26188	Subdivision of Lot 3, DP 1230408
Stage 7J	Duct, Trench and Easement

Scale	Dimensions
1:1000	Dimensions
Drawn	Michael J.B
Date	02-05-2024
Chd	Michael J.B
Design	Michael J.B

Scale	Dimensions
1:1000	Dimensions
Drawn	Michael J.B
Date	02-05-2024
Chd	Michael J.B
Design	Michael J.B

Scale	Dimensions
1:1000	Dimensions
Drawn	Michael J.B
Date	02-05-2024
Chd	Michael J.B
Design	Michael J.B

Design Compliance and Indemnity

This design complies with Endeavour Energy's relevant standards as current at this 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,
- PDI: 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/NZS7300 "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: Mike Baranowski
 Name: Michael J Baranowski
 Service Provider Number: 2486 Date: 02-05-2024

Works Completed / Field Book

Constructed By: _____
 Works Completed: _____
 Signature: _____ Date: _____
 Inspected By: _____
 Signature: _____ Date: _____

Asset Recording

I: _____
 of: _____
 Contact No: _____
 Signature: _____ Date: _____

Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.

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 DECLARATION

I, Malcolm Harvey
 of Daracon
 Contact Number: (02)4974 9200

Herby certify that the ducts shown on this drawing have been installed in accordance with this drawing & Endeavour Energy Standards MDI0028 & MCI0006. The duct depths and locations at each end have been correctly marked on this drawing as per Endeavour Energy standard SAD0004.

The installation of the ducts was 04/06/2024
 & completed on: 20/07/2024
 Signature: _____
 Land Surveyor registered under Surveying & Spatial Information ACT 2024.

Duct Installation Acceptance By the ASP.

I have accepted the conduits marked up on this drawing in compliance to SAD0004 and confirm that:
 All 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 and MCI0006.

The installation of duct was verified by me on _____
 Name: _____
 Signature: _____
 Date: _____
 ASP Company _____
 Level 1 ASP Company Competent Person.

- ### 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 for 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, these are to be located by a surveyor prior to excavation.
 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 of 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 Objects, all work likely to affect the objects) 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 ACT 1977. 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**
 - Padmount Substation Easement - (Common Earthing):**
 A minimum 2.75m X 5.5m and Variable Easement for padmount substations is to be created over proposed Lots 9241, 9158 & 9030 in favour of Endeavour Energy. This easement is a minimum size and in addition to the substation easement the following restriction zone requirements should be documented on the linen plan & 88b instrument. (Refer to Endeavour Energy Standard MDI0044, Annexure 1 for Standard Easement Terms)
 - Restriction Zone - Fire Ratings of Buildings:**
 A restriction zone on the use of land in relation to fire ratings of buildings measured 3.0m from the padmount substation plinth is to be created in favour of Endeavour Energy within proposed Lots 9241, 9240, 9158, 9157, 9030 and 9031.
 - Restriction Zone - Swimming Pools:**
 A restriction zone on the use of land in relation to pools measured 5.0m from the padmount substation easement and earth grid is to be created in favour of Endeavour energy within proposed Lots 9241, 9240, 9158, 9157, 9030 and 9031.
 - Underground Cable Easement:**
 An 3.0m wide and variable easement for underground cables is to be created over Lot 9240, DP1230408 in favour of Endeavour Energy. The underground cables / conduits are to be centrally located in the easement. (Refer to Endeavour Energy Standard MDI0044, Annexure 1 for Standard Easement Terms)
 - Padmount Substation Easement Requirements - Contours**
 Padmount substation easements shall be flat level and above the 1:100 year flood level for it's entire area. The padmount substations easement shall be at the same level as access from the street.
 Where the adjacent lands are not flat either of the following may be implemented:
 • a batter no steeper than 1:3 may be utilized, the 1:3 ratio must be intact at least 1m outside the edge of the easement.
 • a maximum of a 300mm step (up/down) may be used outside the easement to create the level.
 All changes to ground levels associated with the establishment of the substation easement must meet the requirements of local council. (Refer to MCI 0006, Section 7.4.2 for details)
 - Padmount Substation Easement Requirements - Services**
 Services such as drains, piping or wiring are not permitted to pass through either the substation easement or the ground below it. (Refer to MCI 0006, Section 7.3.2 for details)

Duct Trench and Easement Site Plan

Scale 1:1000

DIAL BEFORE YOU DIG
 Ref: 36005634 Date: 19 Feb. 2024
 DBYO searches indicates 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.

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

Substation Easement
 A 2.75 x 5.5m & Variable easement for Padmount Substations is to be created over Lot 5241 in favour of Endeavour Energy.

Substation Easement
 A 2.75 x 5.5m & Variable easement for Padmount Substations is to be created over Lot 9158 in favour of Endeavour Energy.

Points 9d - 9f Cable Route Markers
 Are to be installed over the top of the new cable route in accordance with the requirements of EE Standards MO6005 (Section 3.5.2.5).

Underbore Contained within a 3.0m wide easement for Underground Cables (underbore to have a minimum 1.5m cover) Refer to Project Note 19 on Sheet 1.

Substation Easement
 A 2.75 x 5.5m & Variable easement for Padmount Substations is to be created over Lot 9030 in favour of Endeavour Energy.

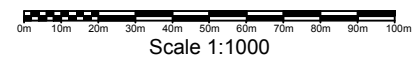


LEGEND

- Existing Underground Cables.
- 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 Curved Outreach
 - Type 2 Ragbolt (Type 2 Footing)
 - Colour Powdercoated Black
- Proposed Column Excavation location
 - 8.5m Enlarged Base Column & 4.5m Curved Pipe Outreach
 - Type 2 Ragbolt (Universal Footing)
 - Colour Powdercoated Black
- Existing Column.
- Proposed New Streetlight Lantern.
- Existing Streetlight Lantern.
- Proposed New Padmount Substation.
- Existing Padmount Substation.
- Road Crossing Indicator
 X = No of 50mm Ducts,
 Y = No of 125mm Ducts.
- Cable Route Markers.

Trench Length

High Voltage Trenching	1343m
Underbore	202m
Low Voltage Trenching	1320m
Street Light Trenching	25m
Road Crossing	879m
Total	3770m



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 in accordance with Endeavour Energy's Standard SAD 004.

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	CHK Michael.J.B	DWN Michael.J.B	Route through Riparian re-aligned at developers request.	DRAFT No. 01	CHK Michael.J.B	DWN Michael.J.B	Asset Numbers Allocated to Align with ADMS	DRAFT No. 01	powerline design	POWER LINE DESIGN PTY LTD PO BOX 338 Mttaggart NSW 2575 Ph (02) 4872 1920 Fax (02) 4872 1240 Accredited Designer Number 2486 ABN: 3107 591 848	PLD Ref: 3868	Reference Drawings	527571C	URS26188 Electrical Retiulation	Work Orders	General	CAMS File No.	URS26188	ORIGINAL SCALE	1:1000	DO NOT SCALE Dimensions in Meters	MGA 56: GDA94	Off Richmond Road MARSDEN PARK URS26188 Subdivision of Lot 3, DP 1230408 Stage 7J Duct, Trench and Easement	Endeavour Energy	A1	527570	C	SHEET No 2 OF 2 SHEETS
	DRAFT No. 01													URS26188	HV Switching		Drawn		Michael.J.B		Date								

Site Plan - Overview

Scale 1:2000

DIAL BEFORE YOU DIG

Ref: 36065634 Date: 19 Feb, 2024

DBYD searches indicates 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.

Caution

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

Section 138 Approval

Level 1 Accredited Service Provider is required to gain Section 138 Approval from Local Council prior to the commencement of works.



Streetlight Columns

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

Final Ground Level

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

Existing Conduits

All conduits are to be mandrelled, proven clear, free of foreign material, and deformations prior to the installation of cables.

Streetlight LV Supply

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

Route Lengths

All route lengths are to be confirmed on site by the constructor prior to ordering materials.

Proposed Ducts/Conduits

All Proposed 125mm ducts / conduits are to have a minimum 750mm cover, (in accordance with MDI0028)

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/NZS 4506-2005.

Pollution

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

Breakaway Links

Breakaway links must be used during each cable pull. The link must be of a lesser value than the maximum cable pulling tension (Refer MDI0028).

Design Compliance and Indemnity

This design complies with Endeavour Energy's relevant standards as current at this 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,
- PDI: Protection Design Instruction,
- SDI: Substation Design Instruction,
- SAD: Design Drawing Standard,
- MIL: 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: Mike Baranowski
Name: Michael J Baranowski
Service Provider Number: 2486 Date: 02-05-2024

Works Completed / Field Book

Constructed By: _____

Works Completed: _____

Signature: _____ Date: _____

Inspected By: _____

Signature: _____ Date: _____

Asset Recording

I: _____

of: _____

Contact No: _____

Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.

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: _____

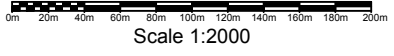
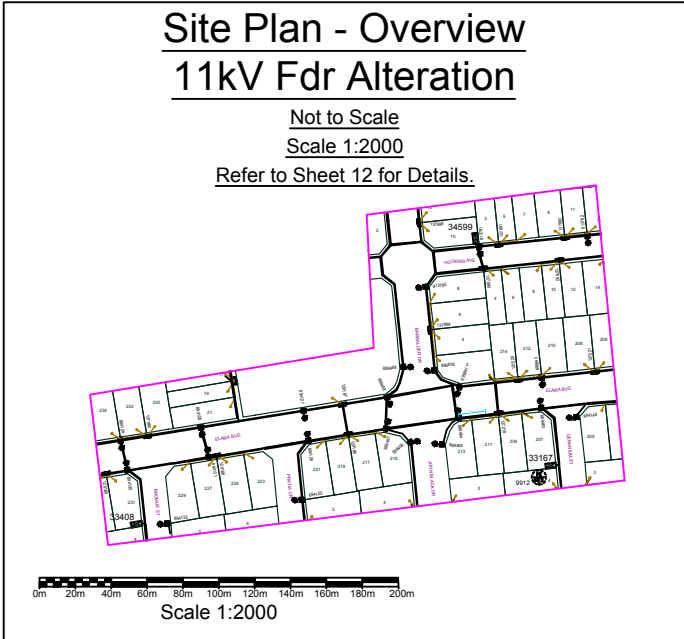
Service Number: _____

Funding Amount: \$ _____

Date: _____

Notes

- This drawing is to be read in conjunction with the relevant Endeavour Energy Network Standards and Connection Policy.
- ENDEAVOUR ENERGY EMERGENCY PHONE No. 131 081.**
- 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:
 - 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/EMS001 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 Objects, 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 ACT1917. 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**



Equipment to be returned to Endeavour Energy - FPJ4252	29 August, 2022
Safe Design Report	29 August, 2022
Summary Environmental Report - FAT0038 (EMS0001)	29 August, 2022
Document Name	Notation Date

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

KEY DOCUMENTS TABLE

Endeavour Energy Supplied Materials	Customer Funded Non-Contestable Works	Customer Funded
ASP Level 1 Electrical Works		Customer

Funding Arrangements for Scope of Works

NIL	NIL
Works Required Prior to Completion of Customer Contestable Project	Works Required in Association of Customer Contestable Project
Endeavour Energy Funded & Constructed	
NIL	

Substation	N/A	N/A	N/A	N/A
LV Mains	N/A	(km)		N/A
HV Mains	N/A	(km)		N/A
Asset	Asset Cost Estimate (\$)	Unit Quantity	Prospective Proposed Customer Number	Maximum Reimbursement Per Proposed Customer Connected (\$)

Pre-Calculated Reimbursement for Customer's Load up to 50kVA
Pioneer Cost Share Reimbursement SCHEME - Expiry Date: N/A

AMENDMENTS	DESCRIPTION	DATE	BY	REASON
A	Original Issue	02/05/2024	Michael J Baranowski	Initial Design
B	Design Changes	02/05/2024	Michael J Baranowski	Client Feedback
C	Final Design	02/05/2024	Michael J Baranowski	Final Approval

527570C	URS26188 Duct Trench & Easement	General	Overhead	Underground	Slab	Substation	Support	Rate	Code	Category	Lighting	Equipment & Billing Schedule
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URS26188	Duct Trench & Easement	General	Overhead	Underground	Slab	Substation	Support	Rate	Code	Category	Lighting	Equipment & Billing Schedule
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URS26188	Duct Trench & Easement	General	Overhead	Underground	Slab	Substation	Support	Rate	Code	Category	Lighting	Equipment & Billing Schedule
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URS26188	Duct Trench & Easement	General	Overhead	Underground	Slab	Substation	Support	Rate	Code	Category	Lighting	Equipment & Billing Schedule
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Customer Funded Contestable Works

- All works associated with the inspection, testing, switching and the commissioning associated with this project.
- All works associated with the flagging of easements, property boundaries and infrastructure locations.
- Registration of Easements.
- Provide Site Access.
- Own Service and Service connections.
- Confirm ground levels.

APPROVAL TO CONNECT TO PUBLIC LIGHTING

Reviewers Name: _____

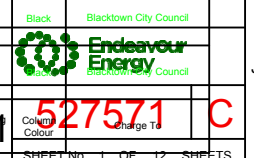
Date Approved: _____

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 _____.

URS26188	Lot 9001 to 9252	252	Woorong Park Pty Limited	Tana Sainsbury (J. Wyndham Prince)	(02) 4720 3319
C.A.P. No.	Lot Numbers	No. of Lots	Developer	Developers Representative	Contact No.

This Drawing Supplies 252 Lots (Subdivision of Lot 3, DP1230408)



Site Plan - North

Scale 1:1000

DIAL BEFORE YOU DIG
 Ref: 34352730 Date: 06 June, 2023
 DBYD searches indicates 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.

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

Establish Proposed PMS No.95862
 • Transformer: 500kVA (11000/433V)
 • HV Switchgear: ABB SafeLink, Type: "CFCC"
 • 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).

Establish Proposed PMS No.95863
 • Transformer: 500kVA (11000/433V)
 • HV Switchgear: Siemens 8DJH, 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 95862

HV BusBar	19545
Trf	10004288
LV BusBar	37334

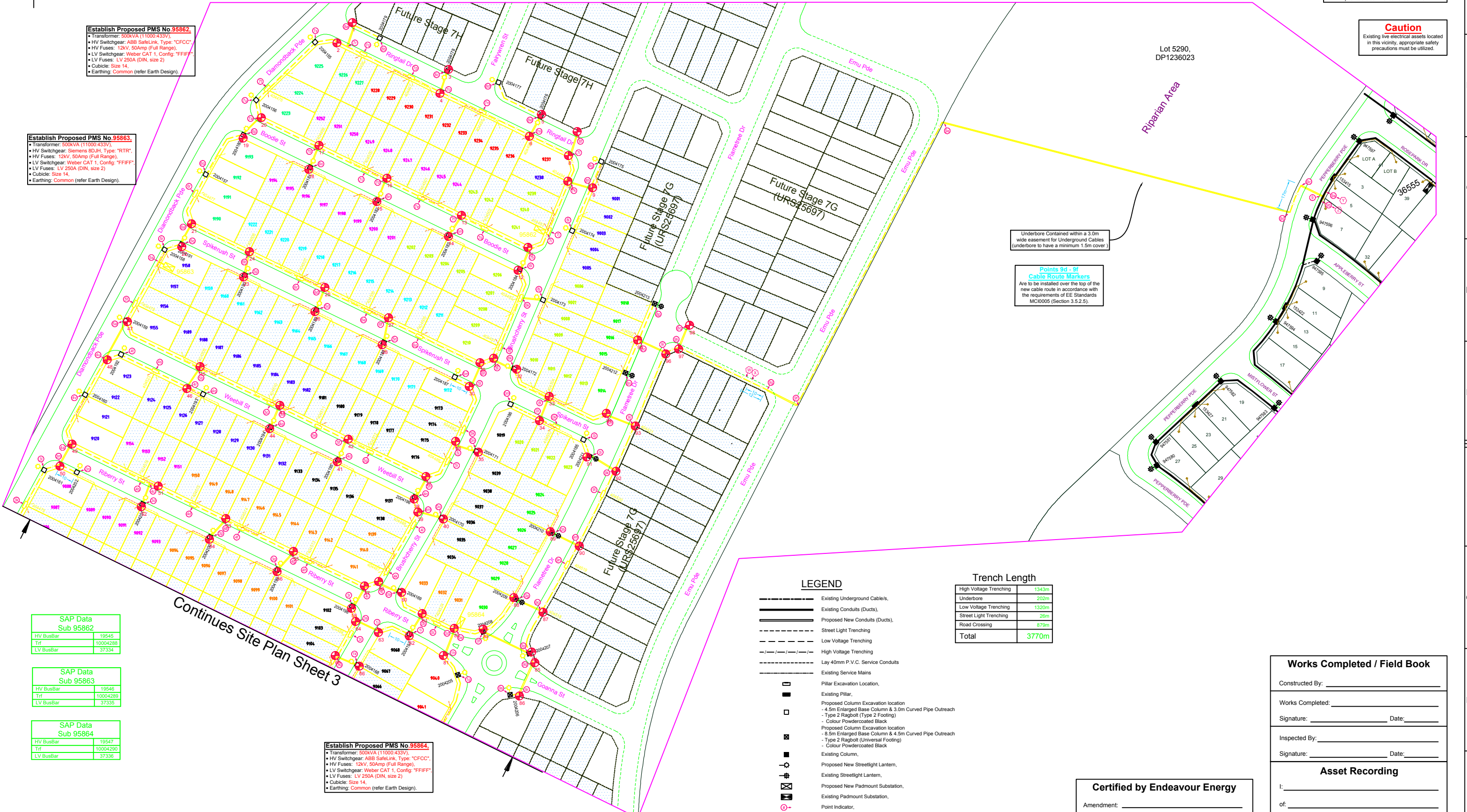
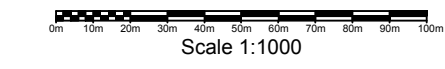
SAP Data Sub 95863

HV BusBar	19546
Trf	10004289
LV BusBar	37335

SAP Data Sub 95864

HV BusBar	19547
Trf	10004290
LV BusBar	37336

Establish Proposed PMS No.95864
 • Transformer: 500kVA (11000/433V)
 • HV Switchgear: ABB SafeLink, Type: "CFCC"
 • 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).



Underbore Contained within a 3.0m wide easement for Underground Cables (underbore to have a minimum 1.5m cover)

Points 9d - 9f Cable Route Markers
 Are to be installed over the top of the new cable route in accordance with the requirements of EE Standards MC10005 (Section 3.5.2.5).

LEGEND

- Existing Underground Cables,
- 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 Curved Pipe Outreach
 - Type 2 Ragbolt (Type 2 Footing)
 - Colour Powdercoated Black
- Proposed Column Excavation location
 - 8.5m Enlarged Base Column & 4.5m Curved Pipe Outreach
 - Type 2 Ragbolt (Universal Footing)
 - Colour Powdercoated Black
- Existing Column,
- Proposed New Streetlight Lantern,
- Existing Streetlight Lantern,
- Proposed New Padmount Substation,
- Existing Padmount Substation,
- Point Indicator,
- Hatched Lot Less than 350m²

Trench Length

High Voltage Trenching	1343m
Underbore	202m
Low Voltage Trenching	1320m
Street Light Trenching	26m
Road Crossing	879m
Total	3770m

Works Completed / Field Book

Constructed By: _____

Works Completed: _____

Signature: _____ Date: _____

Inspected By: _____

Signature: _____ Date: _____

Asset Recording

l: _____

of: _____

Contact No: _____

Hereby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.

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 - South

Scale 1:1000

DIAL BEFORE YOU DIG
 Ref: 34352730 Date: 06 June, 2023
 DBYD searches indicates 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.

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

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

Route Lengths
 All route lengths are to be confirmed on site by the constructor prior to ordering materials.

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

Existing Conduits
 All conduits are to be mandrelled, 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 MDIO028).

Breakaway Links
 Breakaway links must be used during each cable pull. The link must be of a lesser value than the maximum cable pulling tension (Refer MDIO028).

Pulling Compound
 A cable pulling compound with a coefficient of friction less than 0.2 must be used on all cable pulls greater than 25m.

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)

Service Work
 All service works to be carried out by an authorized level 2 ASP in accordance with the New South Wales Service & Installation Rules, Australian Standards and all other relevant standards.

Cable Lengths
 Cable Lengths specified on this design have been calculated utilizing 2 dimensional data to align with Endeavour Energy's AVS. The Constructor **will need to allow for** additional cable to cater for topographic influences as well as cable terminations, cable setting, and vertical indifference.

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

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

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.

Certified by Endeavour Energy

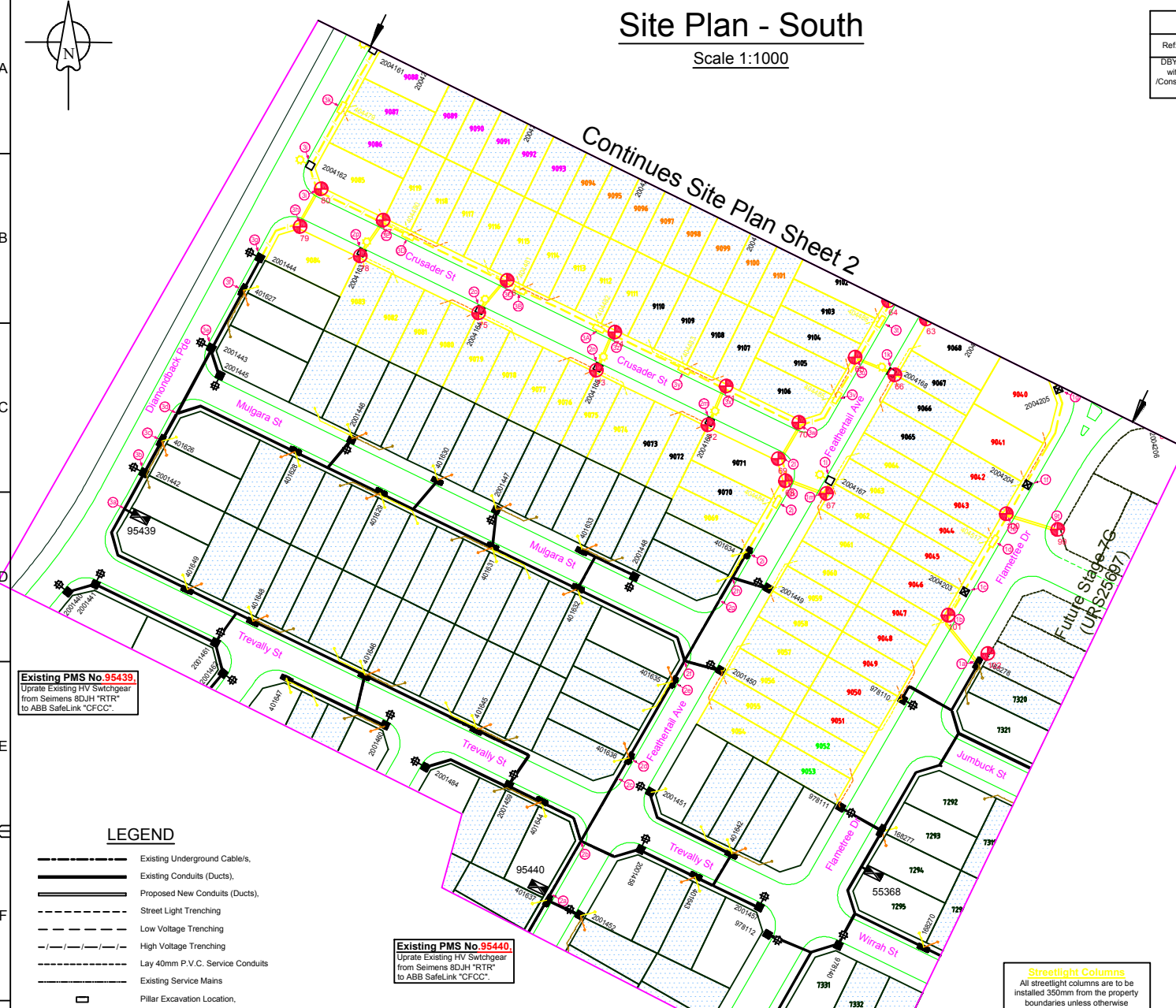
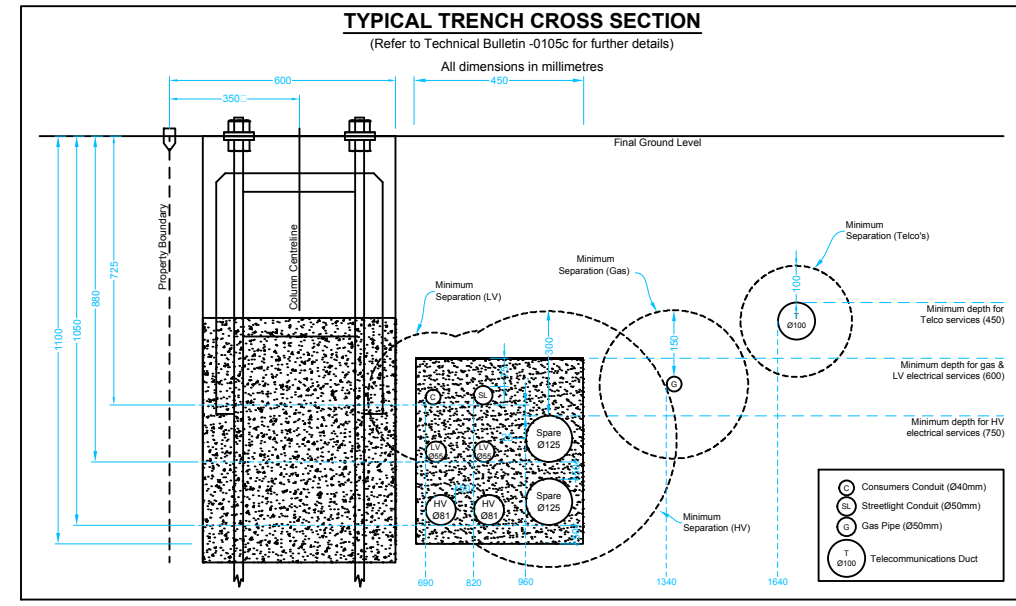
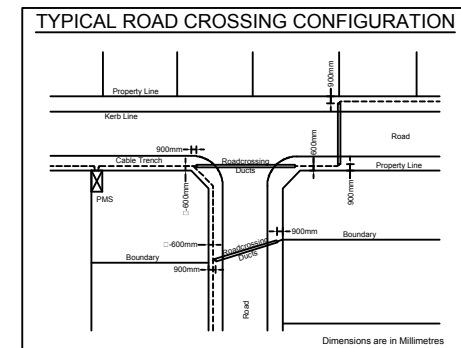
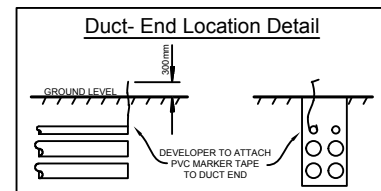
Amendment: _____
 Date Approved: _____
 Examiner's Signature: _____
 Print Name: _____
This Certification is issued subject to Endeavour Energy's Standard Certification Terms.

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 in accordance with Endeavour Energy's Standard SAD 004.
 Signature: _____ Date: _____



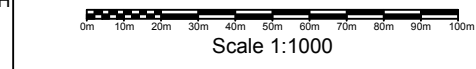
Existing PMS No. 95439
 Upgrade Existing HV Switchgear from Siemens BDJH "RTR" to ABB Safelink "CFCC".

Existing PMS No. 95440
 Upgrade Existing HV Switchgear from Siemens BDJH "RTR" to ABB Safelink "CFCC".

- LEGEND**
- Existing Underground Cables.
 - 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
 - Proposed Column Excavation location
 - Proposed Column Excavation location
 - Existing Column.
 - Proposed New Streetlight Lantern.
 - Existing Streetlight Lantern.
 - Proposed New Padmount Substation.
 - Existing Padmount Substation.
 - Point Indicator.
 - Hatched Lot Less than 350m²

Trench Length

High Voltage Trenching	1434m
Underbore	202m
Low Voltage Trenching	1208m
Street Light Trenching	26m
Road Crossing	866m
Total	3736m



Final HV Circuit

Not to Scale
11kV Area

Joint / Termination Type:	Indoor Cable Termination Sw 229884
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Indoor Cable Termination Sw 229986
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Indoor Cable Termination Sw 229980
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Indoor Cable Termination Sw 229981
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Straight Through Joint Point "W"
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Straight Through Joint Point "X"
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Straight Through Joint Point "Y"
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

Joint / Termination Type:	Straight Through Joint Point "Z"
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

South Marsden Park ZS
Reference: (3-3)
Feeder: MS1162 "Northborne Dr"
1φ Fault level @ SUB 54759: 5.25kA

LEGEND

- Existing Underground Cable/s
- Install 11kV 240mm² Al 3-Core XLPE/PVC/HDPE Cable (U72)
R.L. 2412m, C.L. 2533m (This Sheet)
R.L. 2649m, C.L. 2782m (Entire Project including sheet 12)
- Straight Through Joint (STJ)

11kV Switching Requirements at Commissioning of this Project

Open	Sw A3357 (PMS 33169) "Mataleuca" SH12
Close	Sw A3346 (PMS 33167) "Geranium" SH12
Close	Sw A5855 (PMS 33408) "Bromus" SH12
Close	Sw 237144 (PMS 95439) "Diamondback"
Close	Sw 237145 (PMS 95439) "Diamondback"
Close	Sw 237146 (PMS 95439) "Diamondback"
Close	Sw 229989 (PMS 95864) "Riberry"
Open	Sw 229990 (PMS 95864) "Riberry"
Open	Sw J1256 (PMS 55587) "Mazda"
Open	Sw J1249 (PMS 55586) "Numbat"

Endeavour Energy
Network Capacity Planner
to be contacted prior to
commissioning to confirm
Final Switching Requirements

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 in accordance with Endeavour Energy's Standard SAD 004.
Signature: _____ Date: _____

AMENDMENTS	ORIGINAL ISSUE	DRAFT No. 01	CHK Michael.J.B	DWN Michael.J.B	re-align through Riparian realigned at developers request.
A	E2-6-2023	18-03-2024	Michael.J.B	Michael.J.B	
B		02-05-2024	Michael.J.B	Michael.J.B	Asset Numbers Aligned to Align with ADMS
C			Michael.J.B	Michael.J.B	

powerline design
POWER LINE DESIGN PTY LTD
PO BOX 338 Mittagong NSW 2575
Ph (02) 4872 1920 Fax (02) 4872 1240
Accredited Designer Number 2486 / ABN: 3107 591 948

PLD Ref: 3868

Reference Drawings	Work Orders
527570C	General
URS26188 Duct Trench & Easement	Overhead
	Underground
	Substations

CAMS File No.	URS26188
AM Project No.	
HV Switching	Kings Park
EE Depot	Northern
EE Region	Northern
HV OP Diagram	Marsden Park
Local Government Area	Blacktown City

ORIGINAL SCALE	1:1000
Drawn	Michael.J.B
Date	02-05-2024
Ch'd	Michael.J.B

Off Richmond Road
MARSDEN PARK
URS26188
Subdivision of Lot 3, DP 1230408
Stage 7J
Electrical Reticulation

Endeavour Energy

A1 **527571** C

SHEET No 4 OF 12 SHEETS

Final LV Circuit

Not to Scale

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 in accordance with Endeavour Energy's Standard S44 S44.

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.

- LEGEND**
- Existing Underground Cables,
 - Install 240mm² Al 4-Core XLPE/PVC Cable (T84)
R.L. 3158 m, C.L. 3395 m.
 - Install 50mm² Cu 4-Core XLPE/PVC Cable (T94)
R.L. 1121 m, C.L. 1233 m.
 - Install 1x 16mm² Cu 2-Core XLPE/PVC Cable In 50mm Conduit,
R.L. 526 m, C.L. 579 m.
 - LV Isolation Switch/Links (N/C)
 - LV Isolation Switch/Links (N/C)
 - Pillar Earth
 - Proposed Column Excavation location
- 4.5m Enlarged Base Column & 3.0m Eden Outreach
- Type 2 Ragbolt (Type 2 Footing)
- Colour Powdercoated Black
 - Proposed Column Excavation location
- 8.5m Enlarged Base Column & 4.5m Curved Pipe Outreach
- Type 2 Ragbolt (Universal Footing)
- Colour Powdercoated Black
 - Proposed New Street Light Lantern - 17W StreetLED
 - Proposed New Street Light Lantern - 82W StreetLED
 - Lantern Number - Proposed Asset
Column Number - Proposed Asset
(PE Controlled)
 - Lantern Number - Existing Asset
Column Number - Existing Asset
(PE Controlled)

New Labels PM Sub. 95862

TR	Pillar 404434	229994
TR	Pillar 404435	229995
TR	Transformer	402800
LV	Pillar 404433	229996
LV	Pillar 404430	229997
LV	Generator Fuse Strip	229998

New Labels PM Sub. 95863

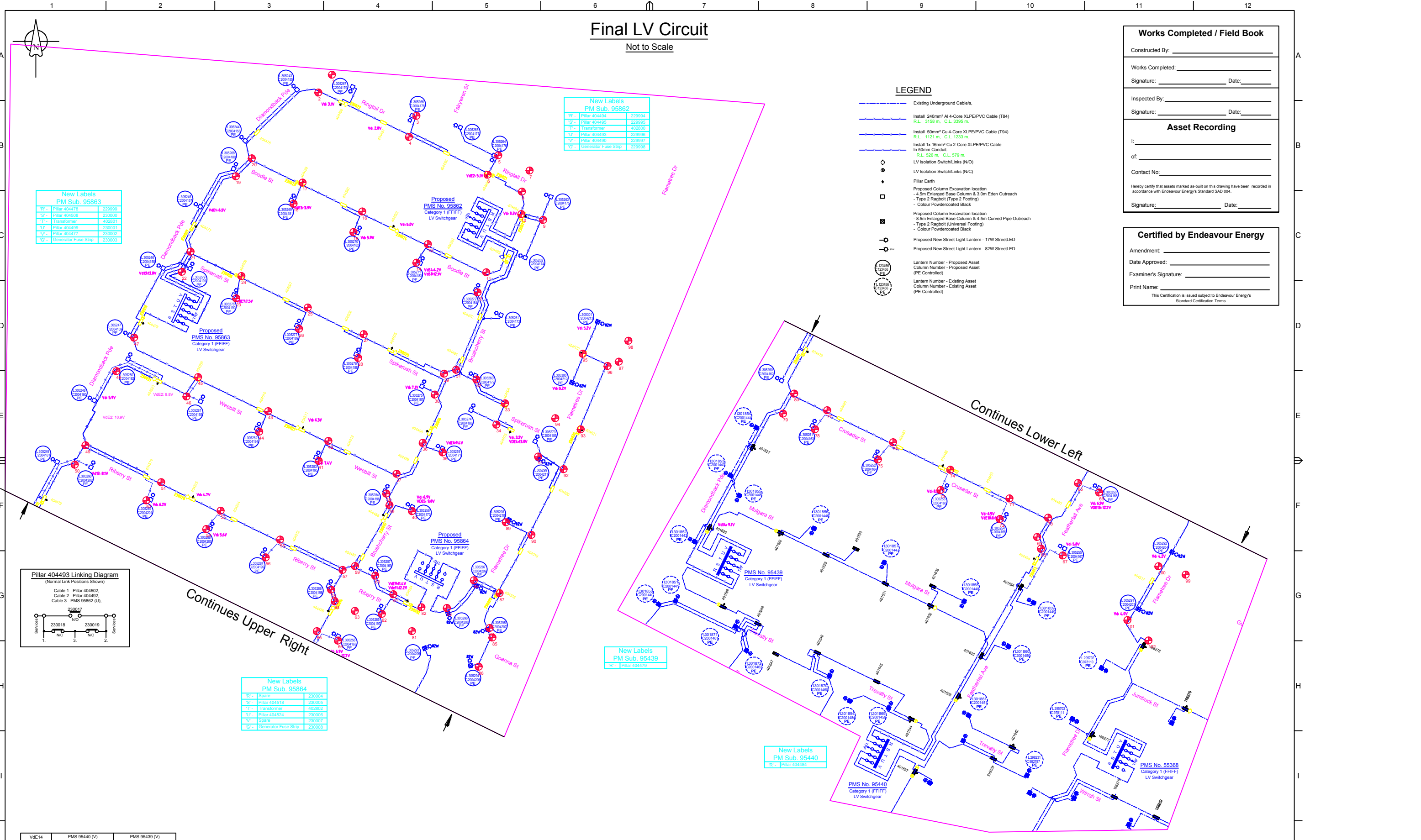
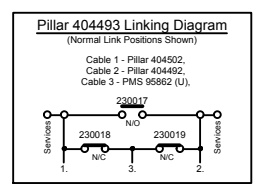
TR	Pillar 404476	229999
TR	Pillar 404508	230000
TR	Transformer	402801
LV	Pillar 404499	230001
LV	Pillar 404477	230002
LV	Generator Fuse Strip	230003

New Labels PM Sub. 95439

TR	Pillar 404479	
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New Labels PM Sub. 95864

TR	Spine	230004
TR	Pillar 404518	230005
TR	Transformer	402802
LV	Pillar 404524	230006
LV	Spine	230007
LV	Generator Fuse Strip	230008



VdE14	PMS 95440 (V)	PMS 95439 (V)
VdE13	PMS 95440 (U)	PMS 95440 (U)
VdE12	PMS 95440 (U)	PMS 95440 (U)
VdE11	PMS 95440 (U)	PMS 95440 (U)
VdE10	PMS 95440 (U)	PMS 95440 (U)
VdE9	PMS 95440 (U)	PMS 95440 (U)
VdE8	PMS 95440 (U)	PMS 95440 (U)
VdE7	PMS 95440 (U)	PMS 95440 (U)
VdE6	PMS 95440 (U)	PMS 95440 (U)
VdE5	PMS 95440 (U)	PMS 95440 (U)
VdE4	PMS 95863 (S)	PMS 95862 (U)
VdE3	PMS 95862 (U)	PMS 95863 (S)
VdE2	PMS 95863 (V)	PMS 95862 (S)
VdE1	PMS 95862 (S)	PMS 95863 (V)
Source Substation - (Fuse Strip)	Backed Up Substation - (Fuse Strip)	

POWER LINE DESIGN PTY LTD
PO BOX 338 Mittagong NSW 2575
Ph (02) 4872 1920 Fax (02) 4872 1240
Accredited Designer Number 2486 | ADR: 33107 S41 S46

PLD Ref: 3868

Reference Drawings: 527570C, URS26188 Duct Trench & Easement

Work Orders: General, HV Switching, EE Depot, EE Region, HV OP Diagram, Local Government Area

CAMS File No.: URS26188

Original Scale: 1:1000

Drawn: Michael J.B, Date: 02-05-2024, Ch'd: Michael J.B, Design: Michael J.B

DO NOT SCALE
Dimensions in Meters
MGA 56: GDA94

Off Richmond Road
MARSDEN PARK
URS26188
Subdivision of Lot 3, DP 1230408
Stage 7J
Electrical Reticulation

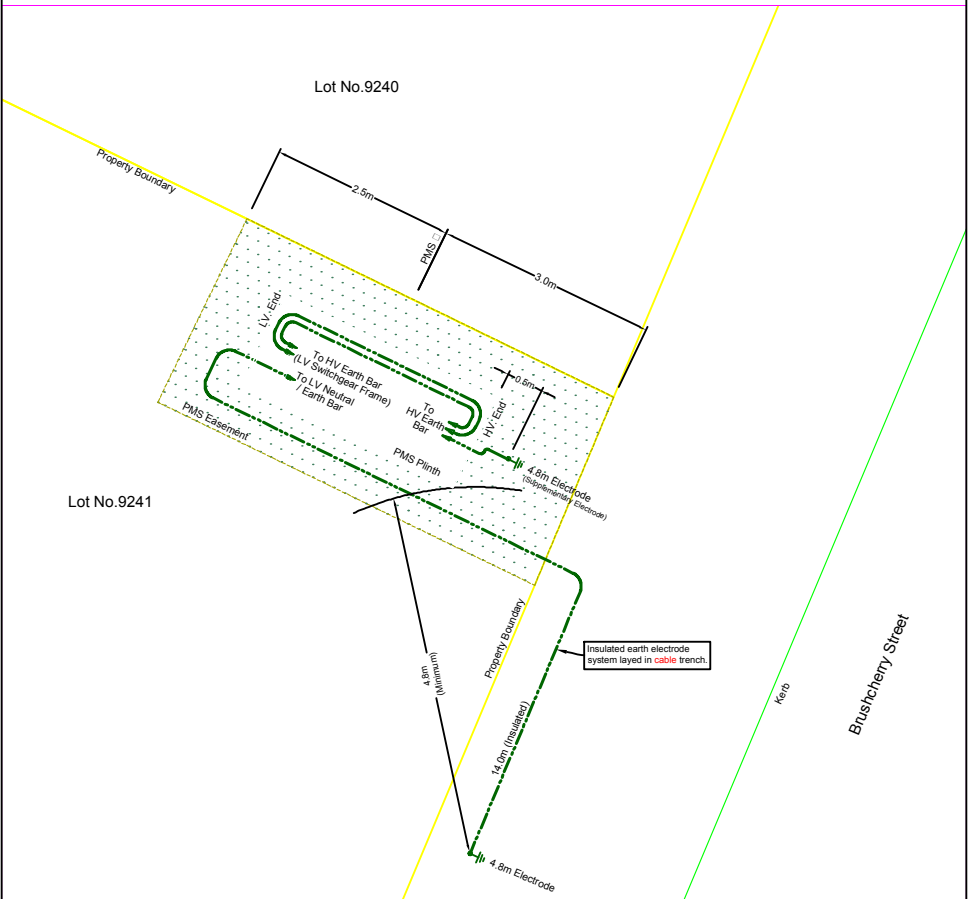
Endeavour Energy

527571 C

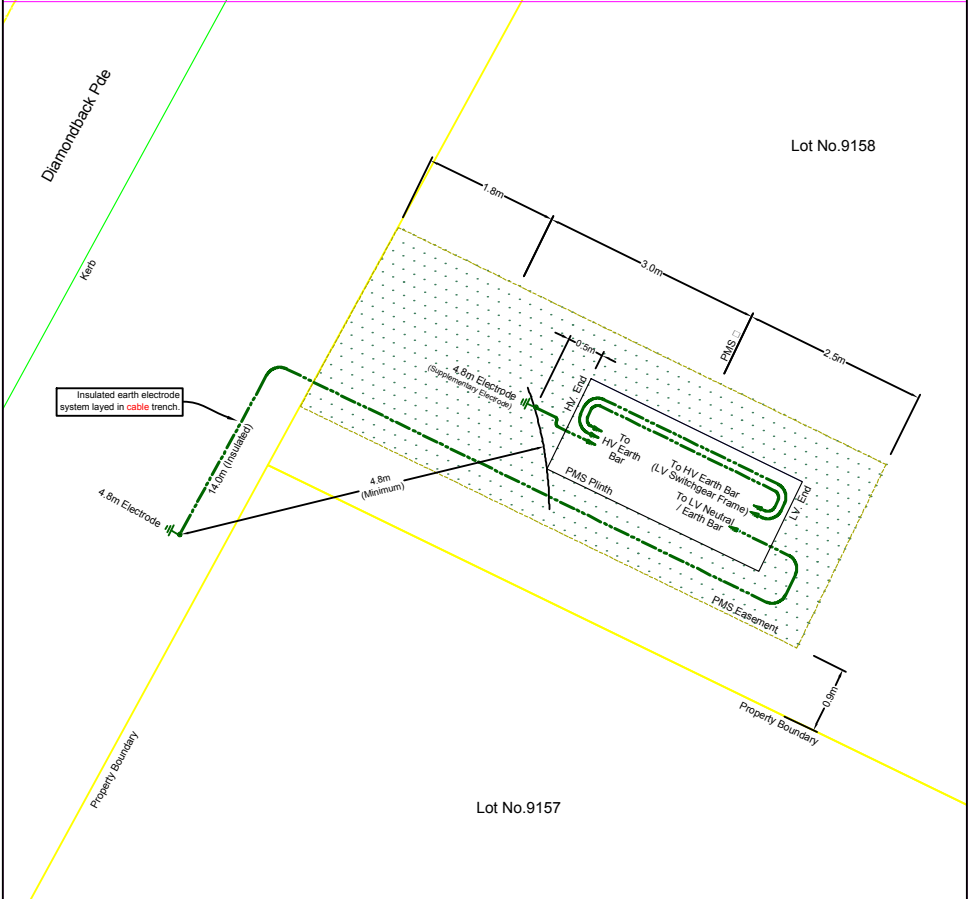
SHEET No 5 OF 12 SHEETS

Emergency / backup voltage drop @ 80% of ADMD
Vd = Voltage drop for normal supply @ 100% ADMD
Voltage Drop Calculations Based on an ADMD of 5kVA/lot for lots less than 350m², and 6.5kVA/lot for lots 350m² and greater.

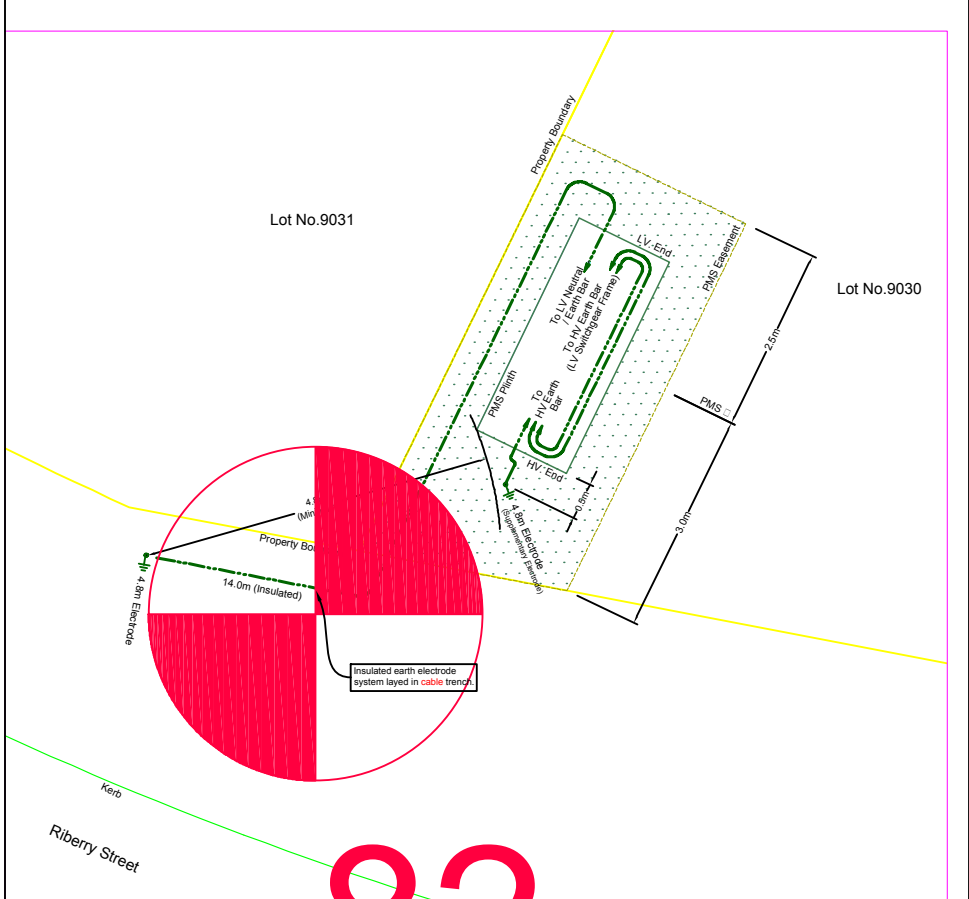
Padmount Substation PMS 95862
Common Earth Configuration
 Not to Scale
 Earthing Construction to EDI-0006
 Information Updated After Commissioning on _____
 Earthing design is based on the requirements of Endeavour Energy's EDI100 & EDI001.
 Any modifications to this earthing design must be approved in writing by the designer.



Padmount Substation PMS 95863
Common Earth Configuration
 Not to Scale
 Earthing Construction to EDI-0006
 Information Updated After Commissioning on _____
 Earthing design is based on the requirements of Endeavour Energy's EDI100 & EDI001.
 Any modifications to this earthing design must be approved in writing by the designer.



Padmount Substation PMS 95864
Common Earth Configuration
 Not to Scale
 Earthing Construction to EDI-0006
 Information Updated After Commissioning on _____
 Earthing design is based on the requirements of Endeavour Energy's EDI100 & EDI001.
 Any modifications to this earthing design must be approved in writing by the designer.



LEGEND

19/2.14 (70mm²) Insulated PVC/PVC Annealed Cu Cable
 Earth Electrode Location & Length
 (Length of bare electrode shown in meters)

Common Earthed PMS
 2x Insulated copper links to be installed between the HV BAR mounted on the LV frame & the LV Neutral / Earth bar.

HV Earth Minimum Separation			
	Design	Actual	
TDMEN	0.0m	>5.0m	Telco
TDB	0.0m	>5.0m	Pipes
TDU	0.0m	>5.0m	HV - LV

EARTHING DETAILS			
Soil Resistivity (Ohms.m)	Layer 1	28.17 Ω	Depth (m)
	Layer 2	16.0Ω	Infinity
Design Earth Resistance (Ohms)	6.4Ω		
Measured Earth Resistance (Ohms)			
Number of Electrodes (Excluding Supplementary Electrodes)	1		
Length of Bare Electrode (m)	4.8		
Insulated Depth (m)	0.6		
Connector Type (CAD or CRIMP)	Crimp		
Location Category (F-frequented, R-remote, S-special)	F		
What Design Tools Used?	3E		
HV Fault Level (kA)	1.82kA		
Is this the first Asset from Zone Substation? (If Yes, check Z/S Earthing Configuration)	N		
Are Cable Screens of Incoming Cable Bonded to Distribution Substation Earth Bar?	Yes		

LEGEND

19/2.14 (70mm²) Insulated PVC/PVC Annealed Cu Cable
 Earth Electrode Location & Length
 (Length of bare electrode shown in meters)

Common Earthed PMS
 2x Insulated copper links to be installed between the HV BAR mounted on the LV frame & the LV Neutral / Earth bar.

HV Earth Minimum Separation			
	Design	Actual	
TDMEN	0.0m	>5.0m	Telco
TDB	0.0m	>5.0m	Pipes
TDU	0.0m	>5.0m	HV - LV

EARTHING DETAILS			
Soil Resistivity (Ohms.m)	Layer 1	28.17 Ω	Depth (m)
	Layer 2	16.0Ω	Infinity
Design Earth Resistance (Ohms)	6.4Ω		
Measured Earth Resistance (Ohms)			
Number of Electrodes (Excluding Supplementary Electrodes)	1		
Length of Bare Electrode (m)	4.8		
Insulated Depth (m)	0.6		
Connector Type (CAD or CRIMP)	Crimp		
Location Category (F-frequented, R-remote, S-special)	F		
What Design Tools Used?	3E		
HV Fault Level (kA)	1.82kA		
Is this the first Asset from Zone Substation? (If Yes, check Z/S Earthing Configuration)	N		
Are Cable Screens of Incoming Cable Bonded to Distribution Substation Earth Bar?	Yes		

LEGEND

19/2.14 (70mm²) Insulated PVC/PVC Annealed Cu Cable
 Earth Electrode Location & Length
 (Length of bare electrode shown in meters)

Common Earthed PMS
 2x Insulated copper links to be installed between the HV BAR mounted on the LV frame & the LV Neutral / Earth bar.

HV Earth Minimum Separation			
	Design	Actual	
TDMEN	0.0m	>5.0m	Telco
TDB	0.0m	>5.0m	Pipes
TDU	0.0m	>5.0m	HV - LV

EARTHING DETAILS			
Soil Resistivity (Ohms.m)	Layer 1	28.17 Ω	Depth (m)
	Layer 2	16.0Ω	Infinity
Design Earth Resistance (Ohms)	6.4Ω		
Measured Earth Resistance (Ohms)			
Number of Electrodes (Excluding Supplementary Electrodes)	1		
Length of Bare Electrode (m)	4.8		
Insulated Depth (m)	0.6		
Connector Type (CAD or CRIMP)	Crimp		
Location Category (F-frequented, R-remote, S-special)	F		
What Design Tools Used?	3E		
HV Fault Level (kA)	1.82kA		
Is this the first Asset from Zone Substation? (If Yes, check Z/S Earthing Configuration)	N		
Are Cable Screens of Incoming Cable Bonded to Distribution Substation Earth Bar?	Yes		

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 in accordance with Endeavour Energy's Standard SAD 004.

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.

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)
1b - 1c	LV Trenching in Cable Allocation	13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1c - 1d	LV Trenching in Cable Allocation	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1d - 1e	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1e - 1f	LV Trenching in Cable Allocation	13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1f - 1g	LV Trenching in Cable Allocation	36	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1g - 1h	LV Trenching in Cable Allocation	14	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1i - 1j	HV Trenching in Cable Allocation	18	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1l-1m	LV Trenching in Cable Allocation	5	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2a - 2b	Install New LV and HV Cables in existing cable Allocation Ducts.	21	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2b- 2c	Install New LV and HV Cables in existing Road Crossing Ducts.	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2c - 2d	Install New LV and HV Cables in existing cable Allocation Ducts.	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2d - 2e	Install New LV and HV Cables in existing cable Allocation Ducts.	31	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2e - 2f	Install New LV and HV Cables in existing cable Allocation Ducts.	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2f - 2g	Install New LV and HV Cables in existing Road Crossing Ducts.	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2g - 2h	Install New LV and HV Cables in existing cable Allocation Ducts.	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

Duct Breakdown Table - Continued										
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)
2h - 2i	Install New LV and HV Cables in existing cable Allocation Ducts.	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2i - 2j	HV Trenching in Cable Allocation	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2j - 2k	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2k - 2l	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3a - 3b	Install New HV & LV Cable in existing cable Allocation Ducts.	13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3b - 3c	Install New LV Cable in existing cable Allocation Ducts.	13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3c - 3d	Install New LV Cable in existing cable Allocation Ducts.	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3d - 3e	Install New LV Cable in existing Road Crossing Ducts.	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3e - 3f	Install New LV Cable in existing cable Allocation Ducts.	22	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3f - 3g	Install New LV Cable in existing cable Allocation Ducts.	13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3g - 3h	HV Trenching in Cable Allocation	18	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3i - 3j	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3j - 3k	HV Trenching in Cable Allocation	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3k - 3l	HV Trenching in Cable Allocation	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3l - 3m	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

Duct Breakdown Table - Continued										
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)
3m - 3n	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3r - 3s	LV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3s - 3t	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3t - 3u	HV Trenching in Cable Allocation	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3u - 3v	HV Trenching in Cable Allocation	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3v - 3w	HV Trenching in Cable Allocation	16	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3w - 3x	LV Trenching in Cable Allocation	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3x - 3y	LV Trenching in Cable Allocation	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3y - 3z	LV Trenching in Cable Allocation	28	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3z - 3A	LV Trenching in Cable Allocation	5	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3A - 3B	LV Trenching in Cable Allocation	30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3B - 3C	LV Trenching in Cable Allocation	6	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3C - 3D	LV Trenching in Cable Allocation	37	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3D - 3E	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3E - 3i	LV Trenching in Cable Allocation	2	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

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: _____
 Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.
 Signature: _____ Date: _____

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 Cable.
- 125mm Duct - with New Cable.
- 125mm Duct - Spare.

Duct Breakdown Table - Continued										
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)
4a - 4b	LV Trenching in Cable Allocation	45	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4b - 4c	LV Trenching in Cable Allocation	5	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4c - 4d	LV Trenching in Cable Allocation	28	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4d - 4e	LV Trenching in Cable Allocation	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4e - 4f	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4f - 4g	LV Trenching in Cable Allocation	35	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4g - 4h	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4h - 4i	LV Trenching in Cable Allocation	36	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4i - 4j	LV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4j - 4k	LV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4k - 4l	LV Trenching in Cable Allocation	30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4l - 4m	LV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4m - 4n	LV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4q - 4s	LV Trenching in Cable Allocation	30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4s - 4t	LV Trenching in Cable Allocation	21	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

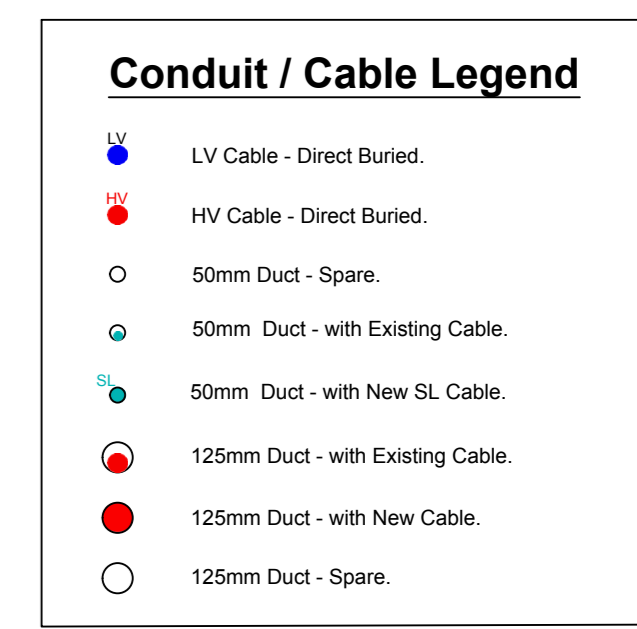
Duct Breakdown Table - Continued										
Route	Configuration	Route Length	Duct Re-Imbursement				Duct Usage Charge			
			No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)	No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)
4t - 4u	LV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4u - 4v	HV Trenching in Cable Allocation	22	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4v - 4a	HV Trenching in Cable Allocation	31	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5a - 5b	LV Trenching in Cable Allocation	51	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5b - 5c	LV Trenching in Cable Allocation	45	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5c - 5d	LV Trenching in Cable Allocation	5	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5d - 5e	LV Trenching in Cable Allocation	25	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5e - 5f	LV Trenching in Cable Allocation	18	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5f - 5g	LV Trenching in Cable Allocation	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5g - 5h	LV Trenching in Cable Allocation	35	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5h - 5i	LV Trenching in Cable Allocation	16	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5i - 5j	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5j - 5k	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5k - 5l	LV Trenching in Cable Allocation	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5l - 5m	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

Duct Breakdown Table - Continued										
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)
5q - 5r	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5r - 5s	HV Trenching in Cable Allocation	7	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5s - 5t	HV Trenching in Cable Allocation	28	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5t - 5a	HV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6a - 6b	HV Trenching in Cable Allocation	35	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6b - 6c	HV Trenching in Cable Allocation	33	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6c - 6d	HV Trenching in Cable Allocation	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6d - 6e	HV Trenching in Cable Allocation	28	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6e - 6f	HV Trenching in Cable Allocation	13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6f - 6g	HV Trenching in Cable Allocation	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6g - 6h	HV Trenching in Cable Allocation	39	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6h - 6i	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6i - 6j	HV Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6j - 6k	HV Trenching in Cable Allocation	30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6k - 6l	HV Trenching in Cable Allocation	16	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

Certified by Endeavour Energy
 Amendment: _____
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 Examiner's Signature: _____
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 Constructed By: _____
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Asset Recording
 I: _____
 of: _____
 Contact No: _____
Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.
 Signature: _____ Date: _____



Duct Breakdown Table - Continued										
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)
6p - 6q		31	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6q - 6r		13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6r - 6a		18	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7a - 7b		36	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7b - 7c		30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7c - 7d		13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7d - 7e		23	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7e - 7f		25	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7f - 7g		15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7g - 7h		27	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7h - 7i		15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7i - 7j		2	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7j - 7k		30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7k - 7l		16	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7l - 7m		26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

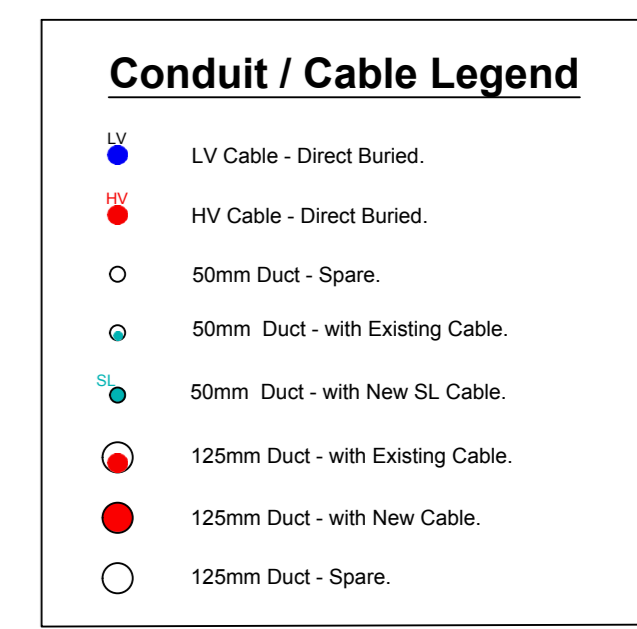
Duct Breakdown Table - Continued										
Route	Configuration	Route Length	Duct Re-Imbursement				Duct Usage Charge			
			No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)	No. of 50mm Ducts	Amount (@ \$7/m)	No. of 125mm Ducts	Amount (@ \$27/m)
7m - 7n		30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7n - 7o		27	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7o - 7p		19	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7p - 7q		30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7q - 7r		10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7r - 7s		17	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7s - 7t		37	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7t - 7u		9	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7u - 7a		8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8a - 8b		15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8d - 8e		30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8g - 8h		16	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8h - 8i		27	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8k - 8l		25	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8l - 8m		36	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

Duct Breakdown Table - Continued										
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)
8n - 8o		20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8o - 8p		23	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9a - 9		2	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9 - 9b		2	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9c - 9d		17	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9d - 9e		202	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9e - 9f		181	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9f - 9g		22	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9g - 9h		54	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9h - 9i		8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9i - 9j		44	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9j - 9k		27	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9k - 9l		15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9l - 9m		33	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9m - 9n		13	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0		\$ 0					

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 of: _____
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Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.
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Duct Breakdown Table - Continued										
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)
9n - 9o	HV Trenching in Cable Allocation	30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9o - 9p	SL Trenching in Cable Allocation	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9p - 9q	HV Trenching in Cable Allocation	5	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9r - 9s	HV Trenching in Cable Allocation	5	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0a - 0b	LV Trenching in Cable Allocation	17	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0b - 0c	HV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0c - 0d	HV Trenching in Cable Allocation	11	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0d - 0e	HV Trenching in Cable Allocation	2	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0e - 0f	HV Trenching in Cable Allocation	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0f - 0g	HV Trenching in Cable Allocation	29	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0i - 0j	SL Trenching in Cable Allocation	8	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0k - 0l	LV Trenching in Cable Allocation	10	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
0l - 0m	SL Trenching in Cable Allocation	18	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0				\$ 0			

Road Crossings Duct Breakdown Table - Continued										
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)
1a - 1b	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1e - 9t	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1h - 0d	New Road Crossing	18	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1i - 0b	New Road Crossing	16	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1j - 3s	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1k - 3u	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
1m - 2k	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2l - 3w	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2m - 3x	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2n - 3z	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2o - 3C	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
2p - 3E	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3h - 3i	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3m - 4a	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3o - 4c	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0				\$ 0			

Road Crossings Duct Breakdown Table - Continued										
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)
3p - 4e	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3q - 4g	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
3r - 4i	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4j - 0a	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4m - 0o	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4n - 5h	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4o - 5f	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4p - 5d	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4r - 5b	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
4u - 5a	New Road Crossing	25	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5j - 0n	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5l - 6h	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5n - 6f	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5o - 6d	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
5p - 6b	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total			\$ 0				\$ 0			

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: _____

Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.

Signature: _____ Date: _____

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 Cable.
	125mm Duct - with New Cable.
	125mm Duct - Spare.

Cadastre: 3Land and Property Information 2016		 POWER LINE DESIGN PTY LTD P.O. BOX 338 Mittagong NSW 2575 PH (02) 4872 1920 FAX (02) 4872 1240 Accredited Designer Number 2486 / ABN: 33107 591 546		<small>The preparation of this design has been undertaken giving due consideration to the existing services. The project constructor is solely responsible for verify the exact location of existing services and permit survey marks prior to commencing construction. No responsibility or liability will be accepted by the designer of this project for damage to existing services as a result of this design.</small> PLD Ref: 3868		<small>THIS DRAWING AND THE COPYRIGHT THEREIN IS THE PROPERTY OF ENDEAVOUR ENERGY AND MAY NOT BE COPIED, REPRODUCED, DISTRIBUTED, LOANED OR USED WITHOUT THE WRITTEN CONSENT OF ENDEAVOUR ENERGY</small>		Reference Drawings 527570C URS26188 Duct Trench & Easement		Work Orders General Overhead Underground Substations		CAMS File No. URS26188 AM Project No. HV Switching EE Depot Kings Park EE Region Northern HV OP Diagram Marsden Park Local Government Area Blacktown City		 ORIGINAL SCALE 1:1000 DO NOT SCALE Dimensions in Meters MGA 56: GDA94		Off Richmond Road MARSDEN PARK URS26188 Subdivision of Lot 3, DP 1230408 Stage 7J Electrical Reticulation		A1 527571 C SHEET No 10 OF 12 SHEETS	
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Road Crossing Duct Breakdown Table - Continued										
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)
5q - 6a	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6i - 8k	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6k - 8i	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6l - 7h	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6m - 7f	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6n - 7d	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6o - 7b	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
6p - 7a	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7k - 8h	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7l - 8f	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7m - 8e	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7o - 8c	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
7r - 8a	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8l - 0i	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8m - 9i	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total				\$ 0		\$ 0		\$ 0		\$ 0

Road Crossings Duct Breakdown Table - Continued										
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)
8o - 9i	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
8q - 9h	New Road Crossing	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9 - 9c	New Road Crossing Pepper Tree Pile	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9k - 0i	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9m - 0h	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9o - 0g	New Road Crossing	20	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9p - 0f	New Road Crossing	30	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
9q - 9r	New Road Crossing	26	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00
Sub Totals			0	\$ 0	0	\$ 0	0	\$ 0	0	\$ 0
Column Total				\$ 0		\$ 0		\$ 0		\$ 0

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 Cable.
○	125mm Duct - with New Cable.
○	125mm Duct - Spare.

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: _____

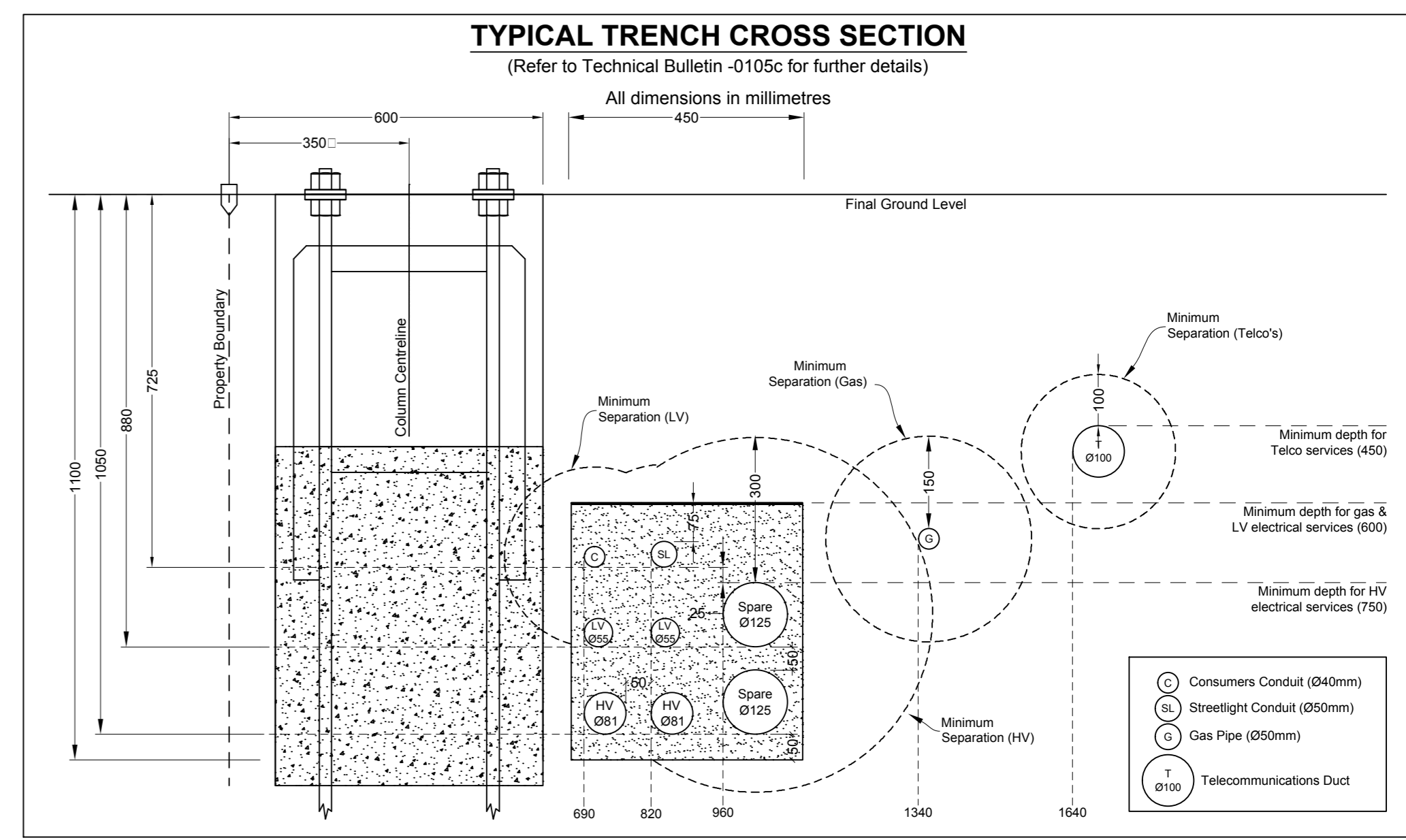
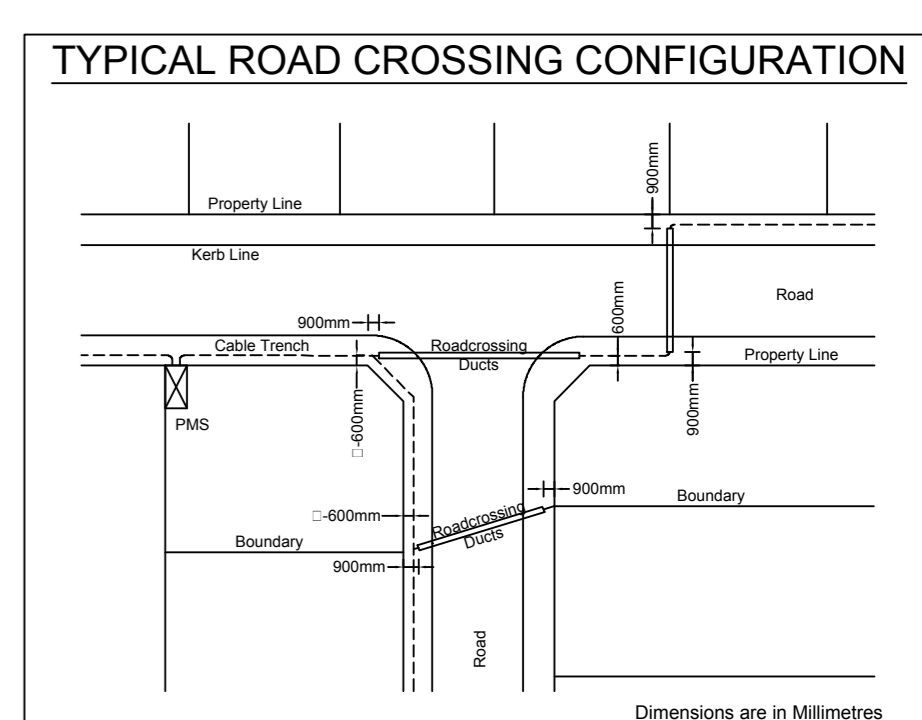
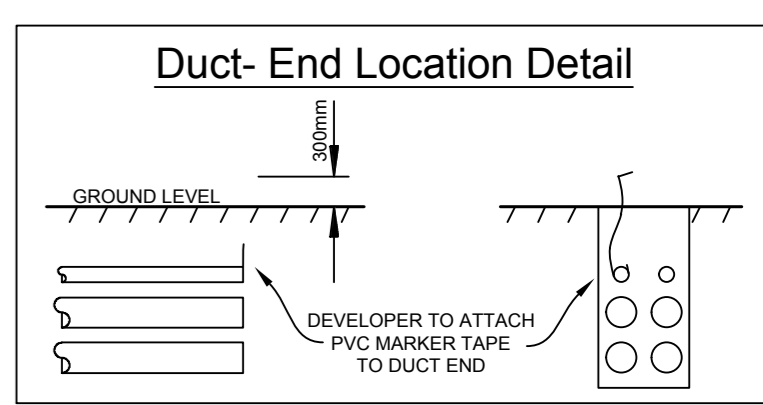
Asset Recording

I: _____
of: _____

Contact No: _____

Herby certify that assets marked as-built on this drawing have been recorded in accordance with Endeavour Energy's Standard SAD 004.

Signature: _____ Date: _____



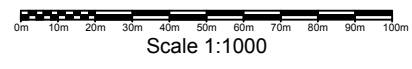
Site Plan - 11kV Fdr Alteration

Not to Scale
Scale 1:1000

Disconnect HV Cable from Sw C3477 (PMS 34599)

LEGEND

- Existing Underground Cables,
- Existing Conduits (Ducts),
- Existing Service Mains
- Existing Pillar,
- Existing Column,
- Existing Streetlight Lantern,
- Existing Padmount Substation,
- Point Indicator,



Final HV Circuit - 11kV Fdr Alteration

Not to Scale
11kV Area

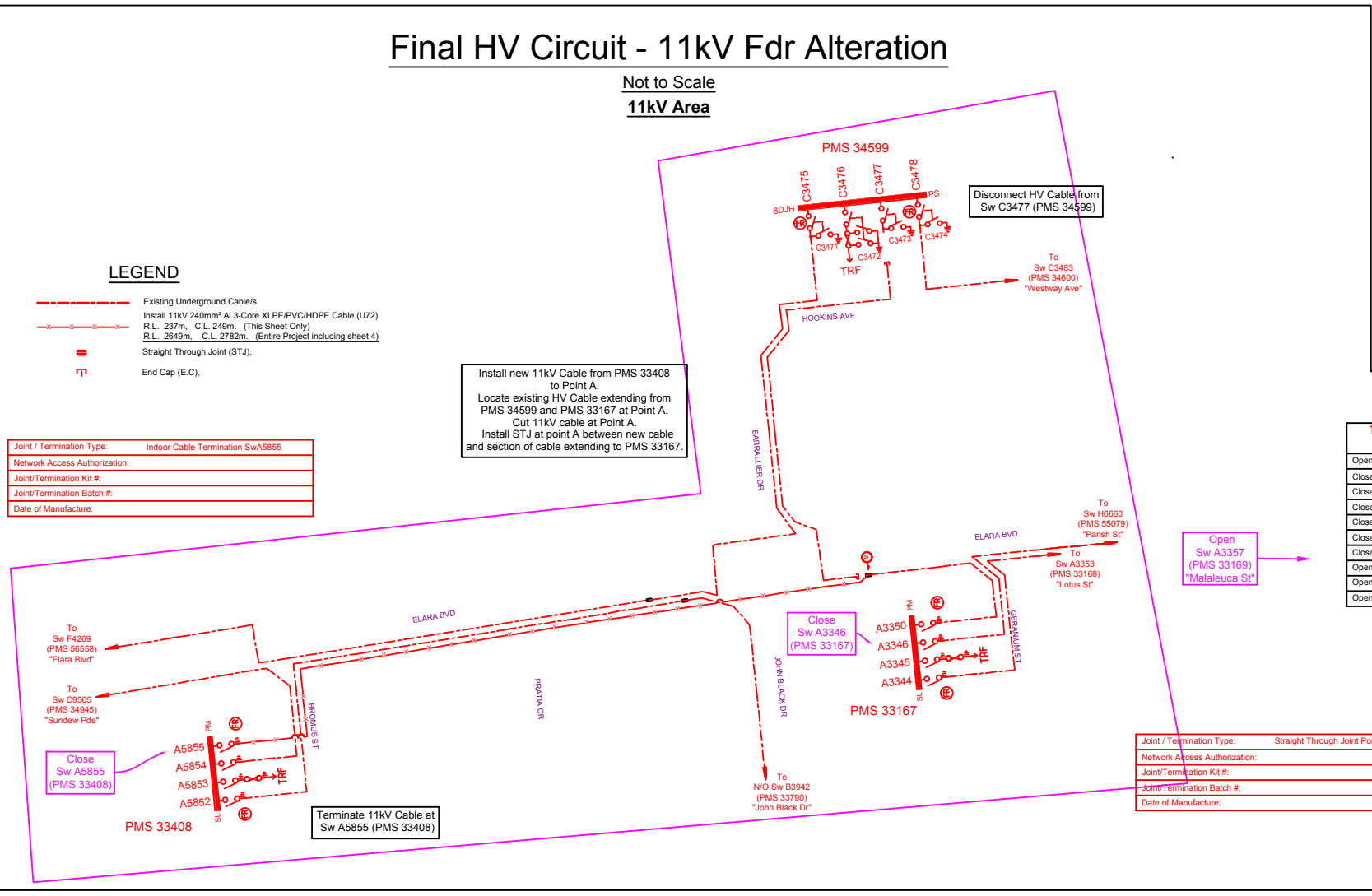
Disconnect HV Cable from Sw C3477 (PMS 34599)

LEGEND

- Existing Underground Cables
- Install 11kV 240mm² Al 3-Core XLPE/PVC/HDPE Cable (U72)
R.L. 237m, C.L. 249m. (This Sheet Only)
R.L. 2849m, C.L. 2782m. (Entire Project including sheet 4)
- Straight Through Joint (STJ),
- End Cap (E.C.),

Install new 11kV Cable from PMS 33408 to Point A.
Locate existing HV Cable extending from PMS 34599 and PMS 33167 at Point A.
Cut 11kV cable at Point A.
Install STJ at point A between new cable and section of cable extending to PMS 33167.

Joint / Termination Type:	Indoor Cable Termination SwA5855
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	



11kV Switching Requirements at Commissioning of this Project

Open	Sw A3357 (PMS 33169) "Malaleuca" Sh12
Close	Sw A3346 (PMS 33167) "Geranium" Sh12
Close	Sw A5855 (PMS 33408) "Bromus" Sh12
Close	Sw 237144 (PMS 95439) "Diamondback"
Close	Sw 237145 (PMS 95439) "Diamondback"
Close	Sw 237146 (PMS 95439) "Diamondback"
Close	Sw 229989 (PMS 95864) "Riberry"
Open	Sw 229990 (PMS 95864) "Riberry"
Open	Sw J1256 (PMS 55587) "Mazus"
Open	Sw J1249 (PMS 55588) "Numbat"

Joint / Termination Type:	Straight Through Joint Point "a"
Network Access Authorization:	
Joint/Termination Kit #:	
Joint/Termination Batch #:	
Date of Manufacture:	

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	Existing Footpath Ducts	15	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 405.00
b → c	Existing Road Crossing	42	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 1134.00
c → d	Existing Footpath Ducts	21	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 567.00
d → e	Existing Footpath Ducts	23	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 621.00
e → f	Existing Road Crossing	24	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 648.00
f → g	Existing Footpath Ducts	25	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 675.00
g → h	Existing Footpath Ducts	25	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 675.00
h → i	Existing Road Crossing	24	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 648.00
i → j	Existing Footpath Ducts	33	0	\$ 0.00	0	\$ 0.00	0	\$ 0.00	1	\$ 891.00
Sub Totals			0	\$ 0.00	0	\$ 0.00	#	###	#	\$ 6264
Column Total				\$ 0.00		\$ 0.00				\$ 6 264.00
Project Total				\$ 0.00		\$ 0.00				\$ 6 264.00

Certified by Endeavour Energy
 Amendment: _____
 Date Approved: _____
 Examiner's Signature: _____
 Print Name: _____
The 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 in accordance with Endeavour Energy's Standard SAD 004.
 Signature: _____ Date: _____

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 Cable.
- 125mm Duct - with New Cable.
- 125mm Duct - Spare.

WAE Survey Coordinate Table								WAE Survey Coordinate Table							
ID	Quality Level	Asset	Property Line	Cover	Easting	Northing	AHD Height	ID	Quality Level	Asset	Property Line	Cover	Easting	Northing	AHD Height
1	A	WAE Duct	0.85	1.19	295593.452	6269611.558	16.702	52	A	WAE Duct	0.5	1.15	295473.999	6269337.425	17.767
2	A	WAE Duct	0.98	1.36	295584.682	6269600.1	16.507	53	A	WAE Duct	0.8	1.02	295521.785	6269330.742	18.759
3	A	WAE Duct	0.9	1.22	295647.836	6269585.078	17.726	54	A	WAE Duct	0.6	1.07	295512.53	6269318.944	18.658
4	A	WAE Duct	0.83	1.01	295643.035	6269571.515	17.979	55	A	WAE Duct	0.8	0.97	295560.063	6269312.128	19.631
5	A	WAE Duct	0.84	1.05	295700.496	6269559.612	19.027	56	A	WAE Duct	0.85	1.18	295550.811	6269300.642	19.35
6	A	WAE Duct	1.02	0.86	295693.673	6269547.158	19.198	57	A	WAE Duct	0.8	1.03	295600.294	6269292.575	20.275
7	A	WAE Duct	0.8	0.83	295720.683	6269549.864	19.688	58	A	WAE Duct	0.65	1.16	295592.954	6269279.896	20.142
8	A	WAE Duct	0.88	1.2	295715.781	6269536.261	19.355	59	A	WAE Duct	0.8	1.2	295608.292	6269295.068	19.886
9	A	WAE Duct	0.8	1	295729.431	6269518.047	19.777	60	A	WAE Duct	0.85	1	295621.327	6269288.891	20.069
10	A	WAE Duct	0.78	0.97	295715.371	6269521.784	19.787	61	A	WAE Duct	0.6	1.1	295632.963	6269276.921	20.477
11	A	WAE Duct	0.88	1.02	295692.802	6269484.31	19.005	62	A	WAE Duct	0.85	1.05	295625.61	6269264.265	20.498
12	A	WAE Duct	1.02	1.24	295687.218	6269471.356	18.788	63	A	WAE Duct	0.9	0.9	295608.194	6269266.209	20.122
13	A	WAE Duct	1.01	1.06	295655.208	6269502.438	18.465	64	A	WAE Duct	0.75	1.1	295595.247	6269272.443	19.877
14	A	WAE Duct	1.01	1.15	295647.828	6269490.496	18.354	65	A	WAE Duct	0.5	1.14	295583.752	6269253.146	19.209
15	A	WAE Duct	1.05	1.37	295607.292	6269510.238	17.604	66	A	WAE Duct	0.75	1	295597.374	6269247.083	19.379
16	A	WAE Duct	0.6	1.17	295612.961	6269523.458	17.81	67	A	WAE Duct	0.8	1.08	295573.961	6269206.498	18.298
17	A	WAE Duct	0.63	1.13	295574.551	6269542.076	17.345	68	A	WAE Duct	0.85	1.1	295559.924	6269210.872	18.229
18	A	WAE Duct	0.62	1.2	295568.772	6269528.485	17.289	69	A	WAE Duct	0.8	1.25	295557.454	6269218.411	17.85
19	A	WAE Duct	0.8	1.67	295531.618	6269546.15	16.556	70	A	WAE Duct	0.95	1.13	295564.5	6269230.824	17.987
20	A	WAE Duct	0.86	1.51	295541.874	6269557.705	16.56	71	A	WAE Duct	0.7	1.05	295539.64	6269243.259	17.851
21	A	WAE Duct	1	1.44	295502.421	6269497.627	16.52	72	A	WAE Duct	0.7	0.94	295533.406	6269229.984	17.965
22	A	WAE Duct	0.75	1.3	295496.877	6269484.63	16.633	73	A	WAE Duct	0.8	1.1	295495.21	6269248.648	17.508
23	A	WAE Duct	1.02	0.65	295531.859	6269467.514	17.384	74	A	WAE Duct	0.7	1.14	295501.533	6269261.714	17.459
24	A	WAE Duct	1.07	1	295535.18	6269481.876	17.294	75	A	WAE Duct	0.9	1.06	295454.945	6269268.31	17.222
25	A	WAE Duct	0.55	1.23	295577.886	6269461.594	17.781	76	A	WAE Duct	0.9	1.1	295464.705	6269279.42	17.201
26	A	WAE Duct	0.67	1.13	295572.261	6269447.9	17.892	77	A	WAE Duct	0.9	1.3	295422.275	6269300.031	16.674
27	A	WAE Duct	0.7	1.31	295613.893	6269444.435	18.268	78	A	WAE Duct	0.7	1.14	295414.45	6269287.777	16.833
28	A	WAE Duct	0.7	1.1	295610.341	6269429.137	18.514	79	A	WAE Duct	0.75	1.24	295393.873	6269297.857	16.665
29	A	WAE Duct	0.7	1.27	295665.676	6269418.988	18.963	80	A	WAE Duct	0.5	1.25	295401.07	6269310.752	16.652
30	A	WAE Duct	0.76	1.5	295659.631	6269405.529	18.735	81	A	WAE Duct	0.9	1.37	295644.965	6269253.162	20.358
31	A	WAE Duct	0.95	1.23	295673.371	6269421.521	18.807	82	A	WAE Duct	0.95	1.11	295651.086	6269268.539	20.614
32	A	WAE Duct	0.6	0.93	295686.443	6269415.274	19.133	83	A	WAE Duct	0.7	1.03	295667.441	6269268.093	21.987
33	A	WAE Duct	0.6	1.15	295704.883	6269399.895	19.497	84	A	WAE Duct	0.5	1.06	295694.936	6269255.143	21.635
34	A	WAE Duct	0.72	1.05	295699.321	6269386.186	19.614	85	A	WAE Duct	1.1	1	295696.745	6269249.049	20.912
35	A	WAE Duct	0.78	1.11	295664.76	6269368.313	19.124	86	A	WAE Duct	0.5	0.95	295687.98	6269230.236	20.952
36	A	WAE Duct	0.92	0.98	295651.853	6269374.462	19.248	87	A	WAE Duct	0.85	1.02	295701.363	6269277.639	20.732
37	A	WAE Duct	0.85	1.11	295635.058	6269354.536	19.104	88	A	WAE Duct	0.65	1	295684.823	6269285.937	20.761
38	A	WAE Duct	0.78	1.1	295628.421	6269341.753	19.113	89	A	WAE Duct	0.85	0.93	295705.449	6269323.303	20.477
39	A	WAE Duct	0.6	1.12	295630.498	6269334.391	19.559	90	A	WAE Duct	0.85	1	295721.882	6269315.144	20.447
40	A	WAE Duct	0.86	1.2	295645.009	6269330.461	19.416	91	A	WAE Duct	0.85	1.18	295726.162	6269365.583	20.223
41	A	WAE Duct	0.75	1.1	295584.938	6269362.853	18.474	92	A	WAE Duct	0.8	1.1	295742.619	6269357.497	20.308
42	A	WAE Duct	1.02	1.06	295591.146	6269375.682	18.499	93	A	WAE Duct	1.2	1.26	295753.616	6269383.138	20.07
43	A	WAE Duct	0.75	1.18	295552.373	6269394.835	17.825	94	A	WAE Duct	0.9	1	295737.213	6269390.326	20.31
44	A	WAE Duct	0.87	1.11	295546.624	6269381.636	17.891	95	A	WAE Duct	1.1	1.17	295754.887	6269431.829	20.086
45	A	WAE Duct	0.75	1	295507.268	6269416.787	17.344	96	A	WAE Duct	1.1	1.42	295770.858	6269423.932	19.869
46	A	WAE Duct	0.8	1.04	295499.788	6269404.326	17.273	97	A	WAE Duct	0.6	1.46	295778.114	6269426.718	19.208
47	A	WAE Duct	0.9	1.55	295466.103	6269442.241	16.507	98	A	WAE Duct	0.6	1.7	295784.293	6269440.204	18.976
48	A	WAE Duct	0.7	1.47	295454.696	6269420.628	16.687	99	A	WAE Duct	1	1.04	295653.085	6269194.161	20.602
49	A	WAE Duct	0.9	1.05	295434.783	6269372.884	17.955	100	A	WAE Duct	1	0.98	295635.483	6269199.544	20.655
50	A	WAE Duct	0.9	1.03	295427.907	6269360.384	16.978	101	A	WAE Duct	1.03	1.02	295615.59	6269164.881	20.809
51	A	WAE Duct	1	1.11	295483.515	6269349.112	17.848	102	A	WAE Duct	0.67	1.01	295629.131	6269151.725	20.851

AMENDMENTS	ORIGINAL ISSUE	DRAFT No. 01	18-03-2024	Michael.J.B	Michael.J.B	Route through Riparian re-aligned at developers request.
DRAFT No. 01	02-05-2024	Michael.J.B	Michael.J.B	Asset Numbers Aligned to Align with ADMS		
DRAFT No. 01						



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The preparation of this design has been undertaken giving due consideration to the existing services. The project constructor is solely responsible for verifying the exact location of existing services and permanent survey marks prior to commencing construction. No responsibility or liability will be accepted by the designer of this project for damage to existing services as a result of this design.

PLD Ref: 3868

Reference Drawings	Work Orders	CAMS File No.	URS26188
527570C	General	AM Project No.	
URS26188 Duct Trench & Easement	Underground	HV Switching	
	Substations	EE Depot	Kings Park
		EE Region	Northern
		HV OP Diagram	Marsden Park
		Local Government Area	Blacktown City

ORIGINAL SCALE 1:1000	DO NOT SCALE Dimensions in Meters	MGA 56: GDA94
Drawn Michael.J.B	Date 02-05-2024	Design Michael.J.B
Ch'd Michael.J.B		

Off Richmond Road
MARSDEN PARK
 URS26188
 Subdivision of Lot 3, DP 1230408
 Stage 7J
 Asbuilt Co-ord Table