Design Information Pack

FOR Project: ECN-059775 New Connection for Load – CORNWALL STREET TAREE

Design Information Issue Date: **23/01/2024**

Design Information Applicant Details:

KIERAN JACKSON POWER CONTROL ENGINEERS PTY LTD
51 Darling St, NSW, 2294

Introduction

Thank you for your request for design information for the proposed supply to **Lot 56, DP626521**

Project Address: 90 CORNWALL STREET TAREE NSW 2430

Customer Name:

General

1. The content of this Design Information Pack has been compiled on the basis of certain conditions and restrictions. The designer shall incorporate these requirements within the electrical reticulation design prepared for certification to Essential Energy.

2. This Design Information Pack is valid for a period of 180 days from the above date. If an updated Design Information Pack is required, please submit a new request for Design Information via the Essential Connections portal under the Essential Connections number (ECN).

3. Essential Energy is providing this information in good faith, to assist you to complete designs for certification. Essential Energy cannot and does not warrant the accuracy or completeness of the information and does not accept any liability for inaccuracies or lack of information. It is the responsibility of the applicant or Accredited Service Provider to independently confirm the accuracy or otherwise, of any information.

What you told us on your Design Information Application

Your Project Reference name: 4098.01

You have proposed the following description of works for this project.

Proposed Poletop Substation installation

Essential Energy's Specific Design Information

Essential Energy have reviewed the information submitted in the Connection Application and the Design Information Application to compile this Design Information Pack. Our officer has also extracted data from our asset management systems to provide you with relevant information to create a design.

The regulatory category determined by Essential Energy for this project is:

Commercial and Industrial Developments

Project Funding Arrangements

Essential Energy's policy CEOP2513.06 Connection Policy – Connection Charges sets out the circumstances in which Essential Energy requires a retail customer or real estate developer to pay the cost of connecting their premises or development to Essential Energy's network.

A copy of CEOP2513.06 can be downloaded from Essential Energy's website: www.essentialenergy.com.au.

In accordance with CEOP2513.06 the following funding arrangements will apply to this project:

Customer funded:

- All

Essential Energy funded:

Connection Point

The connection point on the network will be at Asset No: 18507

Connection Point Voltage: 11,000 Volts 3Ø

Existing Asset Details

The existing High Voltage Conductor is: Custom 19/3.78AAC
The existing Low Voltage Conductor is: Custom 7/4.50AAC

New Asset Details

New Low Voltage conductor / cable required: LV 240mm 4 Core AL XLPE

The New Substation size required is: 500 kVA 3Ø

- New Substation High Voltage Fuses are: 50 Amp K Type
- New Substation Low Voltage Fuses are**:** Dual Circuit 400 Amp Fuses
-

Refer to CEOS5099 – Distribution: Transformer Fusing

Primary Tap setting

Primary Tap setting for the transformer is to be included on the drawing for certification.

The primary tap setting for the transformer: 11550/433/250

Earth Fault Protection Settings for Neutron Earthing Analysis

Site Asset Number: Pole 18507
Phase to Earth fault level at site (Amps): 5549
X/R ratio at site: 4
Number of interconnected Substations: >20
Estimated number of connections per substation: 94.5
SEF Active: Yes
Upstream protective device: HV substation fuses

Project Specific Comments:

The application to provide a Commercial 319 Amp Three Phase Supply has been assessed and the following site-specific design information is provided to enable a design to be developed.

The information provided within this DIP is based on the concept plan and supporting documents within the application. Should the project requirements change the DIP will need to be re-issued.

Erect a 500kVA dual circuit pole substation with 400amp fuses. One circuit to supply the existing O/H LV and the other circuit for the underground commercial supply.

The pole will need to be upgraded and positioned with sufficient clearance from the road and to ensure the tank and the LV fuses do not encroach over the road.

Install 240mm AL XLPE to a commercial pillar located on the boundary. Commercial pillars shall have a minimum Clearance of 1000 mm from its closest point to any driveway or access used by vehicles.

One point of supply is approved only. The lots will need to be consolidated.

The existing overhead service encroachment will need to be removed and the house re-supplied. Please include the removal of the encroachment as part of the level 1 works and include on the plan. The design will also need to ensure sufficient clearance for the existing overhead services across the road.

Remove the existing streetlight circuit between pole 18505 and 18819 and connect the existing streetlights on pole 18506 and 18509 to the existing LV mains.

Install new LV links on pole 19517 and make the Normally Open Point between the proposed substation and substation 2-20681. Install MEN at the open point. The existing services on pole 195147 shall be supplied from substation 2-20681 and shown on the plan and LV schematic.

If any pole requires replacement or the conductors are detached from the existing supporting structure and re-attached to a new supporting structure, the construction plan is to include a profile of the existing line showing details of the poles and conductor heights etc. Conductor stringing information shall also be supplied in the form of a stringing chart or within the drawing detail to allow the existing conductors to be attached and correctly tensioned to the new support structure.

Level 3 ASP to apply pole conditions / wall diameters as detailed in pole report using a suitable Design software program to ensure existing poles are compliant with AS7000 and Essential Energy's design and construction standards. Should any poles associated with the proposed works fail strength validation checks due to the network augmentation the pole/s will need to be replaced.

Level 3 ASP to ensure that the Taree Depot is selected when importing the environments spreadsheet data into the NEARA model.

For evaluating the suitability of retaining existing poles for additional loads, a Strength Reduction Factor (ǿ) of up to 0.7 can be applied for existing preservative treated poles only. All new poles and existing natural round (untreated) poles shall use a Strength Reduction Factor of 0.5 as per Essential Energy Overhead Construction Manual drawing CEOM7101.03.

Wind loads and drag coefficients shall correspond to the values shown in CEOM7097 - 3.5.6.8 – Table 3.5.6.8.2 & 3.5.6.8.3 for Regions A1-A7 and Table 3.5.6.8.4 & 3.5.6.8.5 for Region B. Wind return periods to be applied as per CEOM7097 – Table 3.5.6.8.1.
The location of line being designed is classified as a Town Main (200yrs) / Main Rural Backbone (100yrs) / Minor Rural Backbone and Spurs (50yrs) / Special Circumstances (200yrs) / Rail Corridor (100yrs). The wind return period to be applied for this design is 200years. (CEOM7097 – Table 3.5.6.8.1)

Notifications to be sent to all residents adjacent to the work area. The work area is the area where work is being undertaken on the electricity network. Examples include but not limited to pole installations/replacements, conductor installation/upgrades & re-tensioning, pit/pillar & UG cable installations etc. Customers who have been notified of the proposed works shall be detailed in Essential Energy's Review of Environmental Factors worksheet (CEOF1070.02) Section 1.15 and copies of customer consultation provided in the Design Submission documents. Where no response is received from a notification issued, this shall be detailed in COEF1070.02 section 1.15.

Ancillary Network Service (ANS) Fees

Ancillary Network Service fees for this project are calculated in accordance with the Australian Energy Regulator (AER), Charges for Monopoly Services.

Your client is to be advised of any Ancillary Network Service fees applicable to this project.

Total fees for this Design Information Pack are **$1,126.08**

Note the invoice will detail the fee type and hours charged for completing this Design Information Pack.

Other fees that may be applied to this project are listed in the document titled 'Price Schedule for Ancillary Network Services' that can be found at Essential Energy's website: (http://www.essentialenergy.com.au/content/electricity-network-pricing-and-information).

*** Note - ANS fees exclude GST and are subject to annual price increases in accordance with the National Regulatory Framework. Care should be taken to select the fee appropriate to this project type. Design certification fees will be based on the date of receipt of a complete and correct submission for certification. All other fees will be based on the work completion date. (eg. date of outage, commissioning, inspection).**

Asset Labels

Reuse existing labels for assets that are replaced or substations that are upgraded in the same location.
Additional asset labels may be obatined by submitting an asset label request via the Essential Connections portal.

Pioneer Scheme - Reimbursement

General

AER requires that Essential Energy administer a Pioneer Scheme from 1 July 2014 in accordance with the requirements of the AER Connection Charge Guidelines for Electricity Retail Customers – Under Chapter 5A of the National Electricity Rules, and Essential Energy's Connection Policy as approved by the AER.

Requirements of the Pioneer Scheme are outlined in Essential Energy's document *CEO2513.06 Connection Policy – Connection Charges*.

Project specific

The customer is required to complete and sign a *CEOF6283 Pioneer Scheme Application Form* regardless of whether a pioneer scheme is being implemented or not. The Level 3 ASP must submit the form with the design package for certification.

Essential Energy's records indicate that there **is not** a pre-existing pioneer scheme attached to the infrastructure where you request a connection.

The amount payable to Essential Energy by your customer is **$0.00**

GENERAL DESIGN INFORMATION

Materials

All materials specified in the design must comply with *CEOM7004 – Materials Inventory: Contestability (Approved)*

Non-standard materials may only be used with written permission from Essential Energy. Where a non-standard material is required, please submit a non-standard approval request via the Essential Connections portal under the Essential Connections number (ECN). Your request should include full details for justification and engineering certification where required.

All assets to be removed from Essential Energy's network within this project are to be nominated on the operational form *CEOF2098 – Returned Materials Checklist* and returned to the closest Essential Energy depot, nominated by the Network Assurance Facilitator.

Network Optimisation

The Level 3 ASP must ensure that the design is carried out in such a way as to optimise future network operating and maintenance costs rather than solely minimising initial connection costs. Consideration should be given to utilising or upgrading existing assets (eg. poles and transformers) where possible.

When assessing connection proposals, Essential Energy will use network optimisation considerations to determine which connection proposals are acceptable.

Subdivision lots

The electrical supply requirements for urban residential subdivisions shall be designed and planned to avoid future disruptive augmentation work. Where newly created lots have the potential to be further subdivided, consideration should be given to providing electrical service points at either property boundary in order to facilitate this requirement. It is important that communication with the responsible developer is maintained throughout the design process to ensure the ongoing electrical requirements for the project are met, where they change Essential Energy should be notified.

As a minimum the designer should include the installation of conduits from a designed LV distribution point to any potential future supply point. This consideration is related to larger prestige or corner lots which would meet the requirements of the local council for a further subdivision of land to occur.

Other Services

The Level 3 ASP must carry out a Before You Dig search and is responsible for ensuring that the design does not impact on other services, e.g. telecommunication, gas, water etc. BYDA information should be clearly shown on the design.

In the event the works or design needs to be varied, amended or rectified due to a conflict with other services, the Level 3 ASP is responsible for any subsequent re-design required.

The Level 3 ASP must also ensure that the design will not conflict with proposed services to be installed in conjunction with the development.

Third Party Attachments

Essential Energy has existing joint use arrangements and operates Facilities Access Agreements (FAA's) within its network that allows third party attachments to use Essential Energy assets, for example - optical fibre or telecommunications equipment. It is the Level 3 ASP's responsibility to identify and verify third party attachments and communicate with the third party as part of the design process. Where third party attachments are within the project scope this should be identified on the construction plan.

The Essential Energy form *CEOF6586 – Advice of Pole Maintenance* is available on the Essential Energy's document library and contains contact information for the level 3 ASP, this form should also be used by the level 1 ASP as part of notification for construction. Connection applicants should be aware that they will be responsible for any fees associated with relocation works required by the attachment owner.

Approvals

The Level 3 ASP must seek approvals from the local council, all road controlling authorities and any land occupier affected by the proposed electrical works. The Electricity Supply Act 1995 (NSW), State Environmental Planning Policy (Transport & Infrastructure) 2021 (NSW) and the Roads Act 1993 (NSW) have specific requirements in this regard.

In accordance with Section 45 of the Electricity Supply Act, notification of the proposed works must be given to the local council. The council is allowed up to 40 days to comment and the ASP must duly consider all responses received.

In accordance with Division 5, Section 2.45 of the State Environmental Planning Policy (Transport & Infrastructure) 2021, notification of proposed substations, or works on an existing substation, must be given to both the local council and to occupiers of all adjacent land. The council and adjacent landowners are allowed up to 21 days to comment. The Level 3 ASP must duly consider all responses received.

For works in, on or over a classified road, Section 138 of the Roads Act requires the proponent to obtain consent from the appropriate road controlling authority, and either consent, or concurrence from TfNSW.
Copies of notices to the local council and occupiers of adjacent land, any comments received or a letter stating that no response was received, and any required consent letters are to be provided to Essential Energy within the certification package.

Copies of notices to TfNSW (and other road controlling authorities where applicable) and the written consent received must be provided to Essential Energy with the certification package for any works on classified roads.

Environmental Impact Assessment

An environmental impact assessment of the project will be required. The assessment is to be completed in accordance with *CECM1000.70.- Environmental Impact Assessment – NSW.*

A completed *CEOF1070.01 Environmental Impact Assessment: Screening Worksheet* or *CEOF1070.02 Review of Environmental Factors Worksheet*, must be submitted with the design construction plans for certification by Essential Energy. An information *sheet CEOH1070.02a REF Worksheet: Information Sheet for use by Accredited Service Providers* is available in Essential Energy's online document library to assist ASPs with the completion of the environmental impact assessment.

Please ensure all supporting documentation such as threatened species searches, evidence of community consultation, and notifications to council are included in the submission package.

Vegetation Management

CEOP2010 Vegetation Clearing Guidelines for New Power Lines outlines the requirements for the clearing of vegetation prior to the installation of new overhead and underground powerlines. The document details responsibilities of Level 3 ASPs in the preparation of their design.

If the project requires the clearing (or trimming) of vegetation, the Level 3 ASP must:

1. Ensure their EIA contains details of the required clearing and approvals for the work.
2. Specify the width of the required Clearing Zone taking into account the minimum Clearing Zone dimensions and other factors such as conductor blowout.

The Level 3 ASP shall ensure that site specific vegetation to be cleared is marked on the plan view of the design drawings. The plan shall include:

- The location of vegetation to be removed relative to the proposed power line location.
- The location of vegetation that is requested to remain by the Level 3 Accredited Service Provider.
- Locations of any additional clearing required for conductor blowout.
- Any offsets in the clearing zone as a result of steep slopes etc.
- Any site specific environmental or safety hazards identified during the field inspections and by the Environmental Impact Assessment

Clearing works must not commence until design certification has occurred.

Earthing

- All earthing shall comply with the Essential Energy's policy CEOM5113.02 High Voltage A.C. Distribution Earthing Procedure.
- All earthing designs shall be based on Essential Energy's distribution earthing design software package (Neutron). A copy of the Neutron software package is available on request through neutron@essentialenergy.com.au.
- Level 3 ASPs are required to print an Earthing Report from Neutron and submit it with the design construction drawings for certification.
- Full details of the earthing design must be included on the design drawing.
- Should the customer be upgrading an existing substation, then the suitability of the existing earthing should be assessed for compliance with the current standards. If the existing earthing does not comply, it must be upgraded accordingly.

Voltage Drop Calculations

Where the design requires an alteration to the load on a Low Voltage circuit, the Voltage Drop shall be determined using 'LVDROP' software (Version 5.48 or later) or Neara. Essential Energy's *CEOM7097 – Overhead Design Manual* and *CEOM7098 – Underground Design and Construction Manual* provide detailed information on LVDROP's parameter settings, appropriate load allowances for different development types, and the maximum allowable voltage drop in an LV circuit.

An LVDROP report should be submitted with the design for certification where applicable.

Street Lighting

For projects containing public street lighting, the Level 3 ASP must include a completed *CEOF6127 – Public Lighting: Installation and Connection Consent* in their design package submitted for certification. This form must be signed by an authorised officer of the local council.

The completion of *CEOF6127 – Public Lighting: Installation and Connection Consent* formalises council's agreement:

- That the street lighting design must comply with AS1158.
- To pay annual charges for the lighting applicable from the date of energisation
- To any other project specific requirements

The requirement to submit *CEOF6127 – Public Lighting: Installation and Connection Consent* applies to both new lighting and upgrades of existing lighting.

Design Certification

Please note the following information regarding design package submissions:

1. In addition to specific requirements outlined in the aforementioned clauses, the design package shall be prepared in accordance with the technical design requirements as specified in Essential Energy's design and construction standards.

2. All relevant documents shall be submitted with the design for certification. (See Required Documents Schedule)

3. Essential Energy will carry out an initial review of the design package and issue certification of the design drawing to indicate that the package is compliant.

4. If it is found that the design package is not compliant with Essential Energy's technical or drawing standards, or specific design requirements, the design submission will be returned to the applicant for amendments. Design rechecking charges will be applied.

5. Certification will remain valid for a period of 6 months. If construction of the proposed works has not commenced before this period expires, the design package must be updated and re-submitted for certification prior to submission of the Notice to Commence Construction.

In certifying any design, Essential Energy makes no warranty, express or implied, that the design is:

1. Fit for its intended purpose
2. Suitable for the site conditions
3. Free of design defects (i.e. errors and omissions)

The Level 3 ASP (and Level 1 ASP at commencement of construction) acknowledges that Essential Energy has not inspected the site, and therefore, is unfamiliar with the site conditions.

Design certification is granted exclusively based on the submitted design with respect to the construction standards in force at the time. It has no reference to any underlying assumptions or conditions.

Responsibility for the correctness and suitability of the design remains with the Level 3 ASP after certification. Essential Energy will request the Level 3 ASP to correct any design defects discovered after certification is granted and resubmit the design package for certification. Design rechecking charges will be applied.

Schedule of Documents to be submitted with the Certification Package:

- Electrical Plan For Certification (in pdf and dwg format)
- LVDROP Calculations/Report
- Profile Design Report and Tip Load Calculations
- Neutron Earthing Report
- Designer Safety Report
- RMS/Other Authority Notification
- RMS/Other Authority Consent
- CEOF9082 - Customer Funded Project - Consent Form
- CEOF9093 - Consent Form - Schedule of Works Required
- CEOF6127 - Public Lighting - Installation and Connection Consent
- CEOF1070-01 - Environmental Impact Assessment - Screening Worksheet
- CEOF1070.02 - Review of Environmental Factors Worksheet
- CEOF2098 - Company Form (Network) Returned Redundant Materials Check List
- CEOF6283 - Contestable Works - Pioneer Scheme Application
- AHIMS Report
- Flora/Fauna Search Results
- Dial Before You Dig (DBYD)Report/Reference Number
- Enhancement Letters
- Section 45 Notifications
- Section 45 Responses

Essential Energy forms are available at: https://www.essentialenergy.com.au/partners/contestable-work

Incomplete or incorrect certification packages will be returned to the nominated Level 3 ASP to action (Design rechecking charges will apply to subsequent submissions).

Design information issued by **Name**: Craig McElroy

Contact Number: 02 6589 8221

List of attachments:

- Smallworld
- PowerOn
- Pole Data
- Environmental Report

11kV - 3Ø 19/3.78AAC
LV - 3Ø 7/4.50AAC
S/L - 1c 7/0.044 HDBC

Possible service encroachment will need to be removed

2-L13682
PP64493
PP64495
PP64494
PP33054
PP33055
PP18494
PP18492
2-LVL86028
2-LVL86038
2-LVL86029
2-LVL86027
2-LVL86052
2-LVL86037
2-LVL86026
2-20681
Cnr York & Pulteney
2-19572
69 High St
2-25660
Base Hospital York
2-99336
Roadside Ra
2-G11221
Cnr Manning
QUEEN ST
GEORGES LANE
CORNWALL LANE
YORK LANE
YORK ST
ALLEN ST

LEGEND

- Pole/Tower Location
- Pole : LV
- Pole : HV
- Pole : HV/LV
- Pole : PRIVATE
- Bord : Oper
- Disconnecting Link : Oper
- Fuse - O/H : Closed
- Load Break Switch Site - O/H : Closed
- Night watch Light Location
- Service Point Tie Support Location
- Connector : Overhead
- Hypermode External Fin 11kV
- Termination Location 11kV
- Substation Site Location 11kV
- Substation Site : Pad/Kiosk
- Cable : Underground - single phase colour 0
- Cable : Overhead - three phase colour 7
- Cable : Underground - three phase colour 7
- Cable : Underground - single phase no LV Circuit
- Cable : Overhead - single phase colour 1
- Cable : Overhead - three phase colour 1
- Cable : Overhead - single phase colour 3
- Cable : Overhead - three phase colour 3
- Cable : Overhead - single phase colour 4
- Cable : Overhead - three phase colour 4
- Cable : Overhead - single phase colour 5
- Cable : Overhead - three phase colour 5
- Cable : Overhead - single phase colour 7
- Cable : Overhead - three phase colour 7
- Cable : Underground - single phase colour 7
- Cable : Underground - three phase colour 7
- Cable : Overhead - single phase colour 8
- Cable : Overhead - three phase colour 8
- Cable : Overhead - three phase colour 1
- Cable : Overhead - single phase colour 3
- Cable : Overhead - three phase colour 3
- Cable : Overhead - single phase colour 4
- Cable : Overhead - three phase colour 4
- Cable : Overhead - three phase colour 5
- Cable : Overhead - single phase colour 7
- Cable : Overhead - three phase colour 7
- Cable : Underground - three phase colour 7
- Cable : Overhead - single phase colour 8
- Cable : Overhead - three phase colour 8
- Cable/Centreline SI
- Cable : Overhead - three phase
- Cable : Underground - three phase
- Construction Plan/Proposed Coverage

THIS MAP IS NOT SURVEYED.
PRELIMINARY PLAN ONLY.
PLEASE ADVISE ESSENTIAL ENERGY
IF DETAILS ARE INCORRECT
CALL 13 23 91
FAX 1800 354 636

0km 0.02km 0.04km 0.06km 0.08km

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Smallworld Plan

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N

ERIC ST

QUEEN ST

GEORGES LANE

ALLEN ST

CORNWALL LANE

YORK ST

YORK LANE

2-LVL86028

2-LVL86029

2-LVL86027

2-LVL86038

2-LVL86052

2-LVL86926

2-LVL86037

2-LVF

2-LVL

2-993367

2-20681

2-19572

2-LVF19575

2-LVL18095

LEGEND

- Pole:Urban Location
- Pole : LV
- Pole : HV
- Pole : HV/LV
- Pole : PRIVATE
- Bond : Open
- Disconnecting Link : Open
- LV Circuit : purple
- LV Circuit : cyan
- LV Circuit : lt green
- Transformer:Geo-schematic Location
- Fuse - O/H : Closed
- Cubicle Switch : closed, LV Cable Isolator
- Cubicle Switch : closed, LV Transformer Isolator
- Cubicle Switch : closed, LV Fuse Switch/Fuse Unit
- Cable : Underground - single phase no LV Circuit
- Cable : Overhead - single phase colour 1
- Cable : Overhead - three phase colour 1
- Cable : Overhead - single phase colour 3
- Cable : Overhead - three phase colour 3
- Cable : Overhead - single phase colour 4
- Cable : Overhead - three phase colour 4
- Cable : Overhead - single phase colour 5
- Cable : Overhead - three phase colour 5
- Cable : Overhead - single phase colour 7
- Cable : Overhead - three phase colour 7
- Cable : Underground - single phase colour 7
- Cable : Underground - three phase colour 7
- Cable : Overhead - single phase colour 8
- Cable : Overhead - three phase colour 8
- Cable : Overhead - three phase colour 1
- Cable : Overhead - three phase colour 2
- Cable : Overhead - single phase colour 3
- Cable : Overhead - three phase colour 3
- Cable : Overhead - single phase colour 4
- Cable : Overhead - three phase colour 4
- Cable : Overhead - three phase colour 5
- Cable : Overhead - single phase colour 7
- Cable : Overhead - three phase colour 7
- Cable : Underground - three phase colour 7
- Cable : Overhead - single phase colour 8
- Cable : Overhead - three phase colour 8
- Geo-Schematic Cable : Overhead no LV Circuit
- Geo-Schematic Cable : Overhead colour 0
- Geo-Schematic Cable : Underground colour 0
- Geo-Schematic Cable : Overhead colour 2
- Geo-Schematic Cable : Overhead colour 4
- Geo-Schematic Cable : Overhead colour 7
- Geo-Schematic Cable : Overhead colour 8
- Geo-Schematic Cable : Underground colour 8
- Disconnecting Link:Centreline LV
- Substation Site:Geo-schematic Boundary
- Substation Site : purple
- Substation Site : grey
- Substation Site : lt green

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0km 0.02km 0.04km 0.06km 0.08km

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LV Geo

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Cut and remove the streetlight circuit from pole 18506 to 18819. Connect the streetlights on poles 18506 and 18509 to the LV conductor if required.

QUEEN LANE
QUEEN ST
ERIC ST
GEORGES LANE
ALLEN ST
CORNWALL LANE
YORK LANE

PP64495
PP64494
PP33054
PP33055

2-20681
Cnr York & Pulteney

2-19572
69 High St

2-99367
Roadside Railway

LEGEND

- Pole:Urban Location
- Pole : LV
- Pole : HV
- Pole : HV/LV
- Pole : PRIVATE
- Nightwatch Light:Location
- Service Point:Life Support Location
- Termination:Location 11kV
- Substation Site:Location 11kV
- Substation Site : Pad/kiosk
- Street Light:Location LV
- Street Light : Private
- Street Light:Location SL
- Cable:Centreline SL
- Construction Plan:Proposed Coverage

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0km 0.02km 0.04km 0.06km 0.08km

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Smallworld Plan_S/L Circuit

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Asset Label	Vicinity	Suburb	Maint Area	Feeder Area	Pole Type	Pole Length	Pole Strength	Joint Use	CZ Diameter	AG Diameter	Wall Thickness	Safety Factor	Date Installed	Last Inspection Date	Footing Type	Reinforcement	Owner	Function	Pole Condition	Span Length 1	Span Length 2	Conductor Code	Number of Wires	Pole Material	Pole Supplier	Species	Underground Cables	RFS-LGA Fire Zone
18817	Cnr Cornwall St & Manning St	Taree	Taree West A	Taree West A	Copper Chrome Arsenic(CCA)	12.5	8	No	0	0	0	0	13/11/2022	21/01/2022	Grit / Metal Dust	0	Essential Energy	HV/LV Pole	Serviceable - As New	24	30	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	L J Williams	Blackbutt	None	None
18818	Cnr Cornwall St &: Queen St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	9.5	8	No	300	300	150	4	1/01/1986	18/10/2021	Normal	None	Essential Energy	Bollard Pole	Serviceable - Good	0	0	0	0	Timber	Koppers Australia	Blackbutt	None	None
18819	Cnr Manning St & Cornwall St	Taree	Taree West A	Taree West A	Pressure Impregnated(PI)	12.5	4	Yes	290	290	140	4	27/06/1990	18/10/2021	Normal	None	Essential Energy	HV/LV Pole	Condemned	16	38	Neon 19/3.75 AAAC/1120	3	Timber	Koppers Australia	Blackbutt	LV	None
18510	Cnr Queen St :& Cornwall St	Taree	Taree West A	Taree West A	Copper Chrome Arsenic(CCA)	12.5	8	No	350	350	170	4	1/01/1986	20/10/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Good	9	20	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Bloodwood - Red	None	None
18509	84 : Cornwall St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	12.5	6	No	280	280	90	3.93	1/01/1986	20/10/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Fair	13	14	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Box - Coast Grey	None	None
18507	90 : Cornwall St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	12.5	6	No	310	310	150	4	1/01/1986	20/10/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Good	10	12	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Blackbutt	None	None
18508	93 : Cornwall St	Taree	Taree West A	Taree West A	Natural Round	11	6	No	290	290	100	3.96	3/01/1970	20/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Fair	9	19	LV 25mm INSULATED 2C Al SERVICE	1	Timber	Not Specified	Tallowood	None	None
18506	96 : Cornwall St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	12.5	6	No	280	280	140	4	1/01/1986	29/10/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Good	12	14	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Ironbark - Red	None	None
18500	115 : Cornwall St	Taree	Taree West A	Taree West A	Natural Round	9.5	4	No	230	230	110	4	3/01/1970	25/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Good	13	13	LV 25mm INSULATED 2C Al SERVICE	1	Timber	Not Specified	Ironbark - Grey	None	None
18505	101 : Cornwall St	Taree	Taree West A	Taree West A	Natural Round	9.5	6	No	300	300	150	4	3/01/1970	29/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Good	9	20	LV 25mm INSULATED 2C Al SERVICE	1	Timber	Not Specified	Tallowood	None	None
18504	Opp 101: Cornwall St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	12.5	6	No	300	300	150	4	1/01/1986	29/10/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Good	18	19	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Ironbark - Red	None	None
18502	107 Cornwall St	Taree	Taree West A	Taree West A	Natural Round	9.5	8	No	360	360	180	4	3/01/1970	27/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Good	9	19	LV 25mm INSULATED 4C Al SERVICE	1	Timber	Not Specified	Unknown - Timber	None	None
18501	Cnr Pulteney & Cornwall St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	12.5	6	No	300	300	150	4	1/01/1986	01/11/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Good	4	22	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Blackbutt	None	None
18511	111 : Cornwall St	Taree	Taree West A	Taree West A	Natural Round	9.5	4	No	250	250	120	4	3/01/1970	25/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Good	11	25	Unknown Twisted	0	Timber	Not Specified	Gum - Grey	LV	None
19519	Cnr Cornwall Ln & Pulteney St	Taree	Taree West A	Taree West A	Copper Chrome Arsenic(CCA)	11	6	No	300	280	150	4.000	17/03/2015	19/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Good	11	21	LV 25mm INSULATED 4C Al SERVICE	1	Timber	Coffs Harbour Hardwoods	Box - Coast Grey	None	None
19518	Cnr Cornwall Ln & Pulteney St	Taree	Taree West A	Taree West A	Copper Chrome Arsenic(CCA)	9.5	6	No	280	300	140	3.25	1/01/1985	02/12/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Fair	21	24	LV 95mm 4C Al ABC	1	Timber	Koppers Australia	Gum - Spotted	None	None
18499	102 Cornwall St	Taree	Taree West A	Taree West A	Pigment Emulsified Creosote	12.5	6	No	300	300	150	4	1/01/1986	25/10/2021	Normal	None	Essential Energy	HV/LV Pole	Serviceable - Good	9	17	Chafer 19/0.149 (19/3.78) AAC/1350	3	Timber	Koppers Australia	Blackbutt	None	None
PP64495	100 Cornwall St	Taree	Taree West A	Taree West A	Tubular	7	Unknown	No	0	0	0	0	0/01/1900	25/10/2021	Normal	None	Private Owner	LV Pole	Serviceable - Good	4	0	Mercury 7/4.50 AAC/1350	4	Steel (Column)	Unknown	Not Applicable - Steel	LV	None
19517	74 : Pulteney St	Taree	Taree West A	Taree West A	Natural Round	9.5	8	No	300	300	90	3.9	3/01/1970	02/12/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Fair	12	12	Unknown Twisted	0	Timber	Not Specified	Tallowood	None	None
18483	11 Cornwall Ln	Taree	Taree West A	Taree West A	Copper Chrome Arsenic(CCA)	11	4	No	270	230	130	4.000	17/03/2015	19/10/2021	Normal	None	Essential Energy	LV Pole	Serviceable - Good	13	14	LV 25mm INSULATED 4C Al SERVICE	1	Timber	Koppers Australia	Ironbark - Broad Leaved Red	None	None

Environmental Report

Officer: cmcelroy

Date/time: 22/01/2024 14:54 PM

Searched Datasets

Acid Sulphate Planning:	1
Acid Sulphate Soil Map:	1
Aquatic:	0
Atlas of Fauna:	0
Atlas of Flora:	0
RFS-LGA Fire Zone:	0
Conduit:	0
Contaminated Site:	0
Cubicle:	0
Disconnecting Link:	0
Forest Management Zone:	0
Fuse - O/H:	0
Land Council Area:	1
LEP:	2
LEP Clause:	0
Mangrove:	0
Marine Park:	0
Mine Subsidence Area:	0
Naturally Occurring Asbestos:	0
NSW Heritage Register:	0
Review of Environmental Factors:	0
REP:	0
National Park Area:	0
Salt Air:	1
SEPP:	0
SL Control Box:	0
State Forest:	0
State Forest Management Areas:	1
State Forest Section 15:	0
State Forest Section 7:	0
Substation Site:	0
Timber Reserves:	0
Water Catchment Area:	1
Wetland:	0

Acid Sulphate Planning

Id	Soil Class
72381	5

Acid Sulphate Soil Map

Id	Tag	Probability	Landform Process	Landform Element	Elevation	Additional	Perimeter	Area
935672	Bn(p4)	B	sulfidic material	ASS in inland lakes,	n	p	125.670 km	107.087 km²

Land Council Area

Name
PURFLEET/TAREE

LEP

ID	LEP Name	LGA Name	LGA Code	Plan Description	Zone No	Current Date	Supply Date	Published Date	Commencement Date
475190	LEP Load Area						17/12/2017		
417626	Greater Taree Local Environmental Plan 2010	GREATER TAREE	3380	General Residential	R1	06/11/2015	17/12/2017	26/05/2010	26/05/2010

Salt Air

Id	Selection Type	Name
8	Conductor Selection	50km Mid North Coast

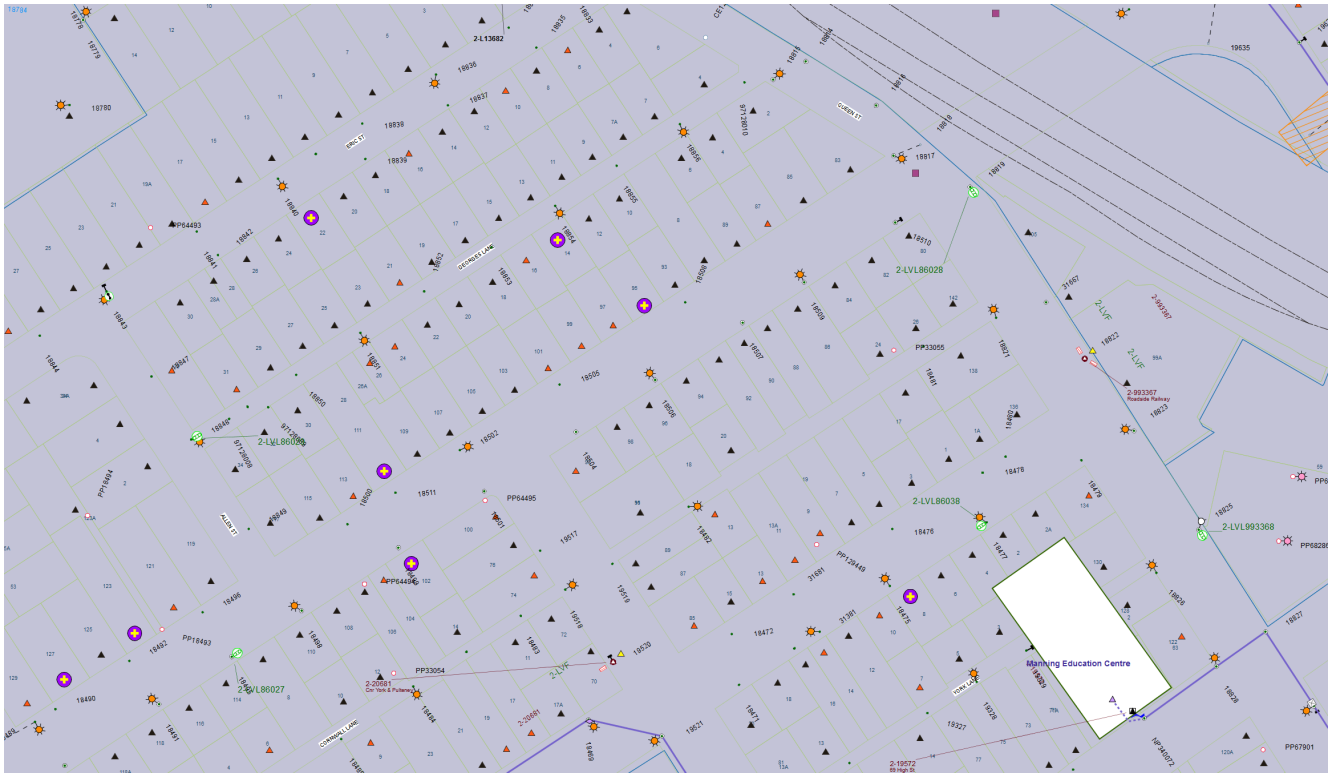
State Forest Management Areas

ID	Management Area ID
886	50

Water Catchment Area

ID	CMA Name	CMA No	Perimeter	Area

182	MANNING RIVER		535.879 km	7790.718 km²


Manning Education Centre
2-LVL86028
2-LVL86038
2-LVL86027
2-LVL993368
2-993367
2-L13682
2-20681
2-19572
PP64493
PP64495
PP64496
PP33055
PP33054
PP67901
QUEEN ST
CHURCH ST
CAMPBELL LANE
ALLEN ST