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Electrical Engineering

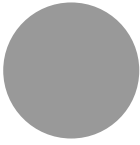
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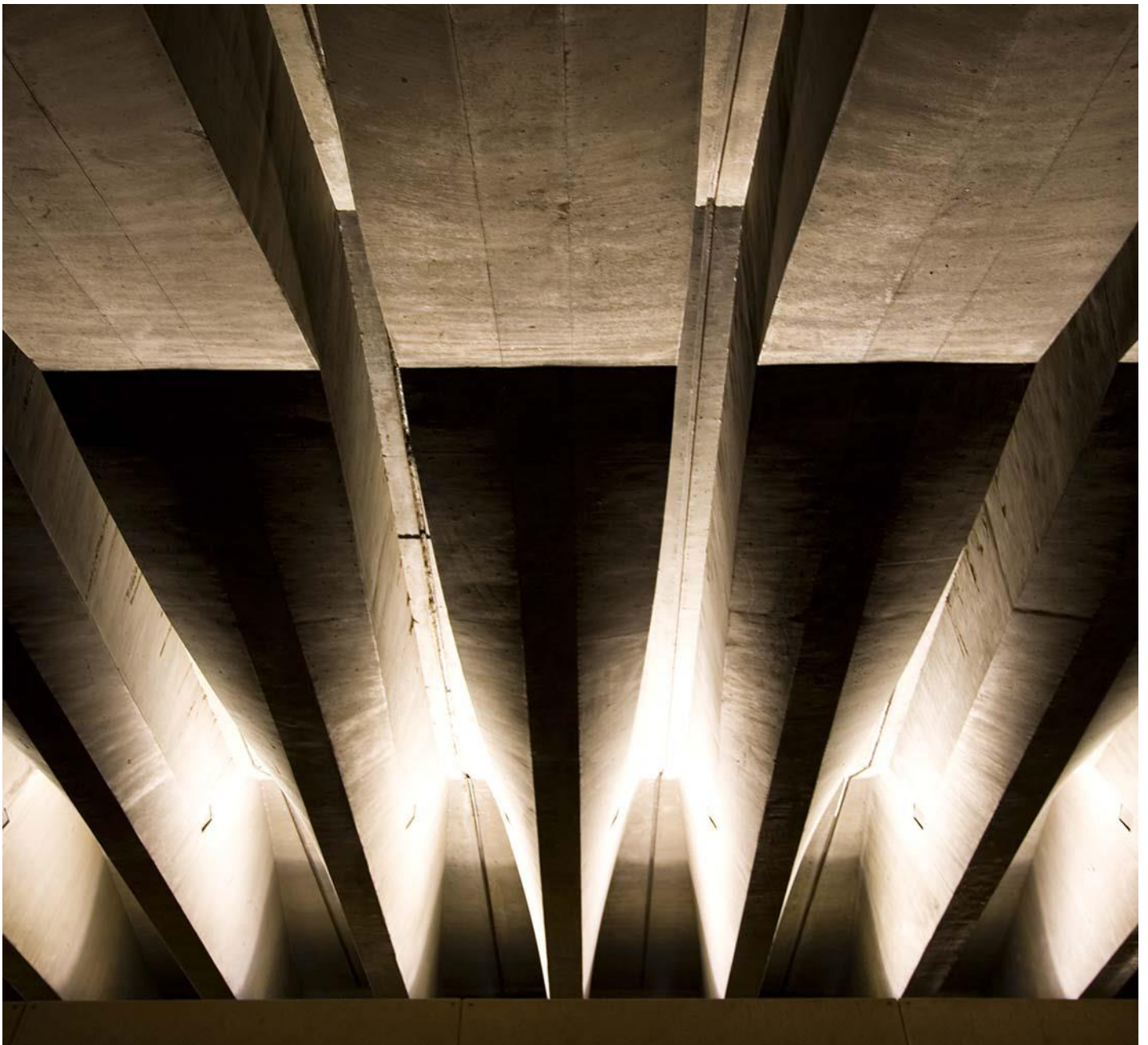
BUILDING SERVICES

STEENSEN VARMINC



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# Liverpool Boys and Girls High School Upgrade Project Infrastructure Requirements and Utilities Report (Electrical and Telecommunications)



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11-11-2024	1	Draft	For Comment	IM	IM
31-01-2025	2	Final Draft	Final Draft	IM	IM
12-02-2025	3	Final Draft	Final Draft	IM	IM

**Ivan Mira**  
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# Table of Contents

<b>1.0</b>	<b>Introduction</b>	<b>4</b>
<b>2.0</b>	<b>REF Deliverable Requirement Report</b>	<b>6</b>
<b>3.0</b>	<b>Consultant Report Content</b>	<b>7</b>
3.1	Electricity	7
3.2	Telecommunications	8
<b>4.0</b>	<b>Mitigation Measures</b>	<b>9</b>
<b>5.0</b>	<b>Conclusion</b>	<b>10</b>
<b>6.0</b>	<b>Appendix A – Endeavour Energy Supply Offer</b>	<b>11</b>
<b>7.0</b>	<b>Appendix B – Endeavour Energy Design Brief</b>	<b>12</b>
<b>8.0</b>	<b>Appendix C - Telstra Desktop Study Correspondence</b>	<b>13</b>


# 1.0 Introduction

## Introduction

This Infrastructure Requirements and Utilities report has been prepared by Steensen Varming on behalf the NSW Department of Education (the **Applicant**) to assess the potential environmental impacts that could arise from the redevelopment of the Liverpool Boys High School and Liverpool Girls High School, at 18 Forbes Street, Liverpool NSW, 2170 (the **site**).

This report has been prepared to assess the electrical and telecommunications services infrastructure required to the new school.

This report accompanies a Review of Environment Factors that seeks approval for redeveloping the Liverpool Boys and Liverpool Girls High Schools into a single co-educational school, including:

-  Construction and operation of a six-storey school building, including school hall and gymnasium;
- Associated parking and building services;
- Tree removal;
- Associated landscaping and play spaces;
- Augmentation of service infrastructure; and
- Associated off-site infrastructure works to support the school, including (but not limited to) services, kiss and drop point and pedestrian crossings.

Refer to the Review of Environmental Factors prepared by Ethos Urban for a full description of works.

## Site Description

The site is located at 18 Forbes Street, Liverpool, within the Liverpool Local Government Area (LGA). The site is legally described as Lot 1 DP1137425 and has a total area of approximately 74,973m<sup>2</sup>.

The site comprises a broadly rectangular portion of land which currently contains the existing Liverpool Boys High School, Liverpool Girls High School, and the Gulyangarri Public School, which commenced operations in January 2024 and is located to the east of the wider site. The site's western portion contains Liverpool Boys High School and Liverpool Girls High School. Liverpool Girls High School in the site's southwest comprises three, two-storey buildings. Liverpool Boys High School in the site's northwest, comprises approximately four, two-storey buildings, with adjacent at-grade carparking and various sports courts.

An aerial image of the site is shown in Figure 1 below.

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Figure 1 – Site Aerial (Source: Nearmap)

### Statement of Significance

Based on the identification of potential issues, and an assessment of the nature and extent of the impacts of the proposed development, it is determined that:

- The extent and nature of potential impacts are low, and will not have significant adverse effects on the locality, community and the environment;
- Potential impacts can be appropriately mitigated or managed to ensure that there is minimal effect on the locality, community.

# 2.0 REF Deliverable Requirement Report

The table below outlines each REF deliverable requirement from the SINSW checklist and where it is addressed in this report. This report deals with the items under the heading 'Utilities' from the REF Review Checklist Rev 01 December 2024 relevant to the electrical and telecommunications services only.

Item	REF Requirement	Relevant Section of Report
1.0	Does the REF broadly set out how the proposal will be serviced by necessary services and utilities?	Sections 3.1 & 3.2
2.0	Does the REF assess any works required to provide necessary services and utilities and conclude that these would not have significant environmental affects?	Sections 3.1 & 3.2
3.0	If temporary arrangements are required (i.e. generator), does the REF assess any potential temporary environmental effects as a result of the arrangements and conclude that significant effects would not be likely?	Not Applicable

## 3.0 Consultant Report Content

### 3.1 Electricity

The Liverpool Boys and Girls High School will be constructed on the site at the address noted in section 1.0 of this report.

Steensen Varming has been in consultation with a level 3 ASP designer to complete a desktop study of incoming power supply options for the new school as well as submitting an application for connection to Endeavour Energy for the proposed new high school.

A supply offer from Endeavour Energy has been received for the new school confirming that a level 3 designer needs to be engaged to confirm the supply methodology for the new school. A supply methodology has been submitted to Endeavour Energy and a design brief provided confirming acceptance of the proposed power supply arrangement. The level 3 designer is in the process of completing the level 3 design for the works based on the design brief provided by Endeavour Energy.

The new Liverpool Boys and Girls High School is proposed to be provided with 2 off 1500kVA kiosk transformer to satisfy the anticipated maximum demand for the project. The maximum demand for the completed school has been calculated at 2519kVA.

The kiosk transformers will be established as an early works package in order to temporarily supply the existing Girls High School and the Temporary Boys High School until the new Liverpool Boys and Girls High School is constructed at which point the kiosks will supply only the new school.

Refer to the supply offer and design brief from Endeavour Energy in Appendix A and Appendix B of this report.

## 3.2 Telecommunications

Based on the dial before you dig results, there are existing telecommunications services within the vicinity of the school site. There are also existing telecommunications services which run into the existing site to service the existing school. These services will be isolated and demolished as part of the works.

The proposal for the Liverpool Boys and Girls High School is to establish a new main communications room on ground floor which will service the new school and that a new incoming telecommunications services will be established to this room and distributed to the rest of the school.

The submission of the formal application for telecommunication services is completed by the Department of Education's Information Technology Directorate (ITD). A desktop study for the site has yet to be completed by Telstra which will confirm the required works to obtain an enterprise level connection at the new high school. A copy of this desktop study will be provided in appendix C of this report once provided.

Based on the NBNCo website, the area is serviced by the NBN network and a new connection to the school can be established. The below screenshot is direct from the NBNCo website (<https://www.nbnco.com.au/>). The application to the NBN is typically completed by the DoE ICT team.

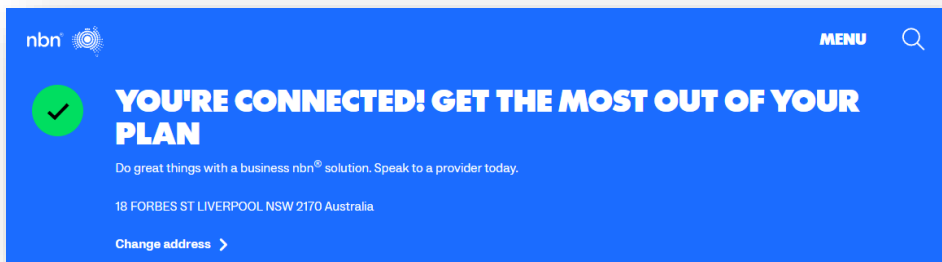


Figure. NBNCo website confirmation of service



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## 4.0 Mitigation Measures

No specific mitigation measures are deemed necessary due to the works required to the electricity network as a result of the activity. The consultation with Endeavour Energy thus far and subsequent supply offer received from the authority indicate there should be no issues in obtaining the necessary power supply to the school.

No specific mitigation measures are deemed necessary due to the works required to the telecommunications network as a result of the activity pending the receipt of the Telstra desktop study.

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## 5.0 Conclusion

As per section 4, we are of the opinion that no mitigating measures are required for the activity relevant to this report. The works are not considered to be of a significant impact nor do they have an impact on the Environmental Factors outlined in section 3 of the Guidelines for Division 5.1 assessments guidelines.

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## 6.0 Appendix A – Endeavour Energy Supply Offer

## Standard Connection Offer

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3 September 2024

**Endeavour Energy Ref: ULL3663**

**Peter Henderson**

Henderson Consulting Engineers Pty Ltd

15 Charles Avenue

MinnamurraNSW 2533

**ULL3663 – LOT 1, DP 1137425, Connection of Load Application: 18 FORBES STREET, LIVERPOOL**

Thank you for your application for Endeavour Energy to provide connection services in respect of the proposed development at the above location ("**Proposed Development**"). Your application for connection services in respect of the Proposed Development ("**Connection Application**") has been registered under the above reference number. Please quote this reference number on all future correspondence relating to the Connection Application.

Endeavour Energy has completed a preliminary desk top assessment of the information provided in the Connection Application and is pleased to make the Supply Offer enclosed with this letter. The enclosed Supply Offer is to provide standard connection services for the Proposed Development in accordance with the terms and conditions of Endeavour Energy's Model Standing Offer for a Standard Connection Service ("**Connection Offer**"). A copy of Endeavour Energy's Model Standing Offer for a Standard Connection Service is available on our website at <https://www.endeavourenergy.com.au/connections/connection-contracts-and-fees>.

## **Supply Offer**

The enclosed Supply Offer forms part of this Connection Offer and it will assist your Level 3 Accredited Service Provider (ASP) to develop the most efficient design solution to meet your needs. Some general requirements that will need to be addressed by your nominated Level 3 ASP includes, but is not limited to:

- Field visit to verify physical site details
- Details of new and existing assets, including quantities
- Substation location, HV switchgear and earthing details
- Construction methods and isolation point requirements.
- Asset Valuation
- Environmental Assessment (Summary Environmental Report)

A sketch of the proposed design utilising our Geographic Information System (GIS) as a base must be returned with the above information.

This Supply Offer is part of the Connection Offer for a Standard Connection Service and is valid for three (3) months from the date of issue.

Where this Connection Offer has lapsed, you or your Level 3 ASP must contact Endeavour Energy with the request to extend the Connection Offer. Endeavour Energy will assess your request and will inform you of the outcome. It must be recognised that the network is being constantly extended/augmented as new customers get connected. This means that for your Connection Offer to be extended, your Supply Offer may require alteration. If this is the case, additional fees to cover administrative costs may apply.

## **Payment of design related ancillary network services.**

Ancillary Network Services (ANS) are the main connection services we provide to customers for which ANS fees are payable. ANS include our interactions with ASPs to ensure that the contestable network services they provide, meet the design and technical requirements to be connected to and form part of our network.

The design related ANS fees payable for this project will be sent to you with a Design Brief. Payment of Design related ANS fees must be made before we can accept your L3 ASP design submission and commence design checking.

Please note that further ANS fees will also apply for the construction and connection phase of the project. These fees will be conveyed to you after the receipt of a signed Letter of Intent indicating that you will proceed with the construction phase of the project. We may also amend or charge you further ANS fees if your application details or project scope changes.

## Accepting this Connection Offer

To accept this Connection Offer, please:

- a) appoint a Level 3 Accredited Service Provider (ASP);
- b) confirm your appointed Level 3 ASP contact details in the attached Notice of Advice form; and
- c) complete and sign the Notice of Advice form yourself and return it to Endeavour Energy.

A list of the Accredited Service Providers is available at the Energy NSW website:

<https://energysaver.nsw.gov.au/households/you-and-energy-providers/installing-or-altering-your-electricity-service> or can be obtained via phone on 13 77 88.

If you accept this Connection Offer, a connection contract will be formed between Endeavour Energy and the retail customer or real estate developer who requires the connection services for the Proposed Development ("**Developer**") on and from the date that Endeavour Energy receives the completed Notice of Advice form. The connection contract will be on the terms and conditions of the Supply Offer and Model Standing Offer for a Standard Connection Service.

If you accept this Connection Offer and you are not the Developer, you will be accepting this Connection Offer as the Developer's authorised agent.

## Next steps

Your next step after accepting this Connection Offer is to engage your Level 3 ASP to prepare and provide an electrical design to Endeavour Energy in the form of a Proposed Method of Supply. Under the Model Standing Offer for a Standard Connection Service, this activity is "Customer Funded Contestable Work", and you will need to pay for it.

Please note under the National Electricity Rules (NER) the Connection Customer may choose to enter into a negotiated connection contract. A negotiation framework describing this process is available on our website at <https://www.endeavourenergy.com.au/your-energy/our-services/your-right-to-negotiate>.

Should you have any enquiries regarding your application please contact the undersigned, who has been appointed as Endeavour Energy's representative for the purposes of this Connection Offer.

Yours faithfully,



Eugene Lorenzo  
Customer Network Engineer  
Ph: 02 9853 7909  
Email: CWTech@endeavourenergy.com.au

Enclosed:

1. Supply Offer
2. Initial Funding Arrangements
3. Notice of Advice – to be completed and returned when you have engaged your L3 ASP

# Supply Offer

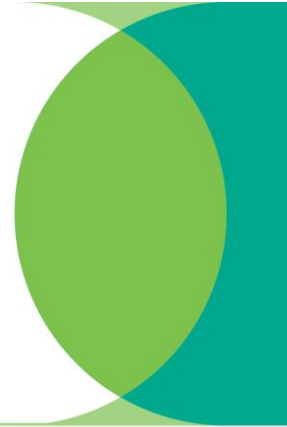
(Based on desktop assessment)

3 September 2024

**Endeavour Energy Reference: ULL3663**

<b>Development Details &amp; Applicant's Assessed Load:</b>	This project is for the power supply to the new Liverpool Boys and Girls High School.
<b>Endeavour Energy Assessed Load:</b>	The new schools require 3628A/phase (2519kVA) requiring 2x 1500kVA PM sub.
<b>Connection Options:</b>	<p>Please submit a method of supply for the development.</p> <p>Endeavour Energy has assessed that new substations will need to be installed to provide LV supply for the development. All works associated with the establishment and installation of the new substations will be funded by the customer.</p> <p>The existing school is currently supplied from existing pm sub 1366 in Lachlan St. As the existing school is still operating the existing supply is to be retained until the school is demolished.</p> <p>The new schools require 3628A/phase (2519kVA) requiring 2x 1500kVA PM sub. The plan is to use the new substations to supply the new Girls school and temporary Boys school while its being constructed.</p> <p>The existing sub will be removed after the establishment of the PM substations. Ideally this should be done under this project to avoid 2-point of supply to the site.</p> <p>The scope and works is to be undertaken in accordance with the Endeavour Energy's Connection Policy and must comply with all the latest relevant technical bulletins, important notices, policies, regulations and network standards.</p> <p>All service works are to comply with the requirements of the NSW service and Installations Rules.</p>





## Initial Funding Arrangements

3 September 2024

Endeavour Energy Reference: ULL3663

Endeavour Energy Supplied Materials:	Nil
Endeavour Energy Funded and Constructed:	Nil
Endeavour Energy Funded and Level1 ASP Constructed – Reimbursement Paid by Endeavour Energy	Nil
Reimbursement to be paid to Endeavour Energy by Customer:	Nil
Customer Funded Monopoly Services:	Network switching, commissioning, contractor inspection, ancillary fees, etc.
Customer Funded Contestable Works:	All other works required

# Notice of Advice

[Insert date here]

Endeavour Energy Ref: ULL3663

Endeavour Energy  
PO Box 811  
Seven Hills NSW 1730  
[cwadmin@endeavourenergy.com.au](mailto:cwadmin@endeavourenergy.com.au)

Attention: Customer Connections Administrator

**APPOINTMENT OF ACCREDITED DESIGNER FOR THE PROPOSED DEVELOPMENT AT: LOT 1,  
DP 1137425, 18 FORBES STREET, LIVERPOOL ("PROPOSED DEVELOPMENT")**  
*Please complete and return this letter when a Level 3 ASP has been appointed*

I refer to Endeavour Energy's offer to provide standard connection services in respect of the Proposed Development ("**Connection Offer**").

This letter confirms that:

- a) the retail customer or real estate developer for the Proposed Development ("**Developer**") owns, or is developing, the land on which the Proposed Development is to be located;
- b) the Developer intends to supply the Proposed Development in accordance with Endeavour Energy's requirements;
- c) the Developer has appointed the Level 3 Accredited Service Provider ("**Level 3 ASP**") described below for the purposes of the Proposed Development; and
- d) the Developer agrees to acquire standard connection services from Endeavour Energy in respect of the Proposed Development on the terms and conditions set out in the Connection Offer.

**Confirmation of Key Contacts:**

(1) Applicant	
Company/Name:	Henderson Consulting Engineers Pty Ltd peter henderson
Address:	15 Charles Avenue Minnamurra NSW 2533
Email:	peter@hcengineers.com.au
Phone:	0405384606
(2) Developer	

<b>Company/Name:</b>	School Infrastructure NSW Jack Bruderlin
<b>Address:</b>	Sydney NSW 2000
<b>Email:</b>	jack.bruderlin@det.nsw.edu.au
<b>Phone:</b>	0423523032

**(3) L3 ASP** (if you did not nominate a Level 3 ASP in your initial application, please do so below)

<b>Company/Name:</b>	Henderson Consulting Engineers Pty Ltd peter henderson
<b>Address:</b>	15 Charles Avenue Minnamurra NSW 2533
<b>Email:</b>	peter@hcengineers.com.au
<b>Phone:</b>	0405384606

Please ensure all fields above are completed.

**The Fees will be Paid to Endeavour Energy by\*:**

(\*Please check only one responsible party in relevant check box below)

☐ Applicant

☐ Developer

☐ Level 3 ASP

**Notice of Advice Execution and Acceptance of Connection Offer:**

By signing this Notice of Advice, I accept the Connection Offer made by Endeavour Energy in respect of the Proposed Development, including the terms and conditions of Endeavour Energy's Model Standing Offer for a Standard Connection Service.

Where I am accepting the Connection Offer on behalf of the Developer, I declare that:

- a) I have the authority to execute this Notice of Advice and accept the Connection Offer on their behalf; and
- b) I am not aware of any fact or circumstance that might affect my authority to execute this Notice of Advice and accept the Connection Offer on their behalf.

**Developer/ Developer's Authorised Agent:**

---

Signature of Developer/Developer's Authorised Agent

---

Name of Developer/Developer's Authorised Agent

---

Date

---

Company Name

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## 7.0 Appendix B – Endeavour Energy Design Brief

## Design Brief

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23 October 2024

**Endeavour Energy Ref: ULL3663**

**Peter Henderson**

Henderson Consulting Engineers Pty Ltd

15 Charles Avenue

Minnamurra NSW 2533

**ULL3663 – LOT 1, DP 1137425, Connection of Load Application: 18 FORBES STREET, LIVERPOOL**

Your Proposed Method of Supply has been assessed, and Endeavour Energy has determined the method of supply requirements as outlined in the enclosed Design Brief. Please use this Design Brief in preparation of the design package which you will submit for certification.

The design must comply with all the conditions specified in this document, the Terms and Conditions of Endeavour Energy's Model Standing Offer for a Standard Connection Service and all relevant Endeavour Energy standards and instructions.

This Design Brief is valid for three (3) months from the date of issue.

The Ancillary Network Services Fees applicable to this phase of the project has a total of **\$10636.62**. We will send you (or your nominated responsible party) a separate email that will detail these fees with instructions of how to make this payment via our Connections Portal.

Land Interests as specified in the Land Interest Guidelines ("LIG") are required for this project:

☐ Registered Land Interest applicable – Non-Subdivision – See LIG Section 6. Please provide a draft Plan of Easement, Administration Sheets and Section 88B instrument or Draft Real Property Act dealing/s prior to certification. Land Interests required to be registered, a minimum 3 weeks prior to planned energisation outage date as per Land Interest Guidelines for Network Connection Works – Aug 2024 Section 6.

Should you have any enquiries regarding your application please contact the undersigned.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'Eugene Lorenzo'.

Eugene Lorenzo

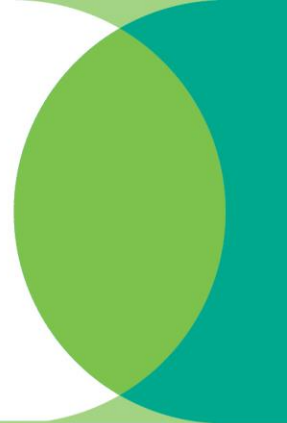
Customer Network Engineer

Ph: 02 9853 7909

Email: [CWTech@endeavourenergy.com.au](mailto:CWTech@endeavourenergy.com.au)

Enclosed:

1. Design Brief
2. Determination of Funding



## Design Brief

---

23 October 2024

**Endeavour Energy Reference: ULL3663**

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This project is for power supply to the new Liverpool Boys and Girls High School. The existing school is currently supplied from existing pm sub 1366 in Lachlan St. As the existing school is still operating the existing supply is to be retained until the school is demolished.

The new schools require 3628A/phase (2519kVA) requiring 2x 1500kVA PM sub.

The method of supply:

1. Establish 2x 1500kVA PM Subs with 2-fdr RMU, referred to as Sub 1 & 2. Sub 1 to have 2-fdr auto-RMU, 1 switch automated.
2. Establish SS with 3-fdr auto-RMU, all switches automated.
3. Remove cable between SW 122870 @Sub 7355 & SW H2025 @Sub 54665 and ring new SS in.
4. Lay cable from SS to Sub 2.
5. Lay cable from Sub 2 to Sub 1.
6. Remove Sub 1366. Remove cable, conductors & UGOH from SW 203152 @Sub 1366 to Pole 61951. Remove cable from SW 203153 to nearest joint on north side of Lachlan St.
7. Extend cable from above joint on north side of Lachlan St and extend to Sub 1. Switch at Sub 1 to be auto & N/O.
8. Install mains pillar adjacent to the Switching station and service conduit from the mains pillar to the Switching Station to provide LV supply to the RTU.
9. All cable to be 11kV 240 Al XLPE.
10. Provide mandatory spare ducts along all HV trenching.

**Note:** Automated Switching Station can either be from Siemens or ABB Safelink. Should a Siemens be used on this project, please refer to Technical Bulletin TB-0354 for the easement requirements.

The scope and works is to be undertaken in accordance with the Endeavour Energy's Connection Policy and must comply with all the latest relevant policies, regulations and network standards.

All service works are to comply with the requirements of the NSW service and Installations Rules.



# Determination of Funding

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23 October 2024

**Endeavour Energy Reference: ULL3663**

**Customer Reference:**

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**Endeavour Energy Supplied Materials:**

Nil

**Endeavour Energy Funded and Constructed:**

RTU bench testing and installation.

**Endeavour Energy Funded and Customer (ASP L1) Constructed – Reimbursement Paid by Endeavour Energy:**

Capital contribution:

- 2x 1500 kVA transformers only
- Automated Switches on the Auto RMU as per AVS costs.

**Reimbursements to be paid to Endeavour Energy by Customer:**

- Duct usage charge as required

**Customer Funded Non-Contestable Works:**

Network switching, substation commissioning, contract inspection, ancillary fees.

**Customer Funded Contestable Works:**

All other works required.

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## 8.0 Appendix C - Telstra Desktop Study Correspondence

Copy of correspondence from Telstra to be added here once desktop results are received.