



# **GABLES NEW PRIMARY SCHOOL**

Electrical and Communications

Infrastructure Delivery  
and Management Plan

Date: 08 November 2024

Project No.: LCE24495/1

Document No.: LCE24495-1-020D

**DOCUMENT ISSUE REGISTER**

PROJECT: GABLES NEW PRIMARY SCHOOL

DOCUMENT NO: LCE24495-1-020C

REVISION	DESCRIPTION	DATE ISSUED	AUTHOR	REVIEWED
A	DRAFT REF Issue	05/09/2024	HA	AM
B	REF Issue	20/09/2024	HA	AM
C	REF Issue	27/09/2024	HA	AM
D	REF Issue	08/11/2024	HA	AM

**CONTENTS**

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1</b>
1.1	OVERVIEW .....	1
1.2	REF REPORTING REQUIREMENTS .....	2
1.3	STATEMENT OF SIGNIFICANCE.....	2
1.4	LIMITATIONS .....	3
1.5	SCHEDULE OF ABBREVIATIONS.....	3
<b>2</b>	<b>ELECTRICAL SERVICES .....</b>	<b>4</b>
2.1	GENERAL .....	4
2.2	EXISTING ELECTRICAL INFRASTRUCTURE.....	4
2.3	PROPOSED ELECTRICAL INFRASTRUCTURE.....	5
2.4	CONSULTATION WITH UTILITY (ENDEAVOR ENERGY) .....	6
2.5	ON-SITE ENERGY GENERATION .....	7
<b>3</b>	<b>COMMUNICATION SERVICES .....</b>	<b>8</b>
3.1	COMMUNICATION INFRASTRUCTURE (NBN).....	8
3.2	COMMUNICATION INFRASTRUCTURE (TELSTRA).....	8
<b>4</b>	<b>INFRASTRUCTURE DELIVERY AND STAGING PLAN .....</b>	<b>10</b>
4.1	COORDINATION AND PLANNING.....	10
4.2	INFRASTRUCTURE STAGING .....	10
4.3	FUNDING.....	11
4.4	INFRASTRUCTURE DELIVERY.....	11
4.5	MITIGATION MEASURES.....	11
<b>5</b>	<b>CONCLUSION .....</b>	<b>12</b>
<b>6</b>	<b>APPENDIX A .....</b>	<b>13</b>
<b>7</b>	<b>APPENDIX B .....</b>	<b>14</b>

## 1 INTRODUCTION

### 1.1 OVERVIEW

This Electrical and Communications Infrastructure Delivery and Management Plan has been prepared by Lucid Consulting Australia on behalf of Schools Infrastructure NSW (SINSW) (the Applicant). The plan is prepared to inform the controls and ensure an integrated and holistic approach to infrastructure delivery for the development of Gables New Primary School at Lot 301 DP 1287967 on Fontana Drive, Gables (the site). Efficient, timely and coordinated infrastructure delivery will be critical to the success of Gables New Primary School.

The proposed Gables New Primary School is located on Cataract Road, Gables, within The Hills Local Government Area (LGA), approximately 50km northwest of the Sydney CBD and 10km north of the Rouse Hill Town Centre. It comprises one lot, legally described as Lot 301 DP 1287967, that measures approximately 2.2ha in area. The site is bound by Pennant Way to the north, Cataract Road to the east, Fontana Drive to the west and a vacant lot to the south.

An aerial image of the site is shown at Figure 1.

Source: Nearmap, edits by Ethos Urban



Figure 1: Proposed Site Location

The development comprises the construction of the following:

- Construction of school buildings, including learning hubs, a school hall and an administration and library building.
- Construction and operation of a public preschool.

- Delivery of a sports court and fields.
- Construction of car parking, waste storage and loading area.
- Associated site landscaping and open space improvements.
- Associated off-site infrastructure works to support the school, including (but not limited to) services, driveways and pedestrian crossings.

For a detailed project description, refer to the Review of Environmental Factors prepared by Ethos Urban.

## 1.2 REF REPORTING REQUIREMENTS

This report has been prepared to provide an overarching impact on the surrounding power and communication infrastructure due to the proposed development and summarise the consultation undertaken to date with relevant authorities.

This table identifies the REF requirements and relevant reference within this report:

Table 1: REF Requirements.

REF Requirement	Relevant Section of Report
In consultation with relevant service providers:	
▪ assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site.	Section 2.1, 2.2, 2.3
▪ identify any infrastructure upgrades required on-site and off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time.	Section 2.1, 2.2, 2.3
▪ identify potential impacts to existing utility infrastructure, as a result of the development.	Section 2.1, 2.2, 2.3
▪ Provide infrastructure delivery and staging plan, including description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development.	Section 2.1.2, 2.1.3
▪ Evidence of consultation with providers.	Section 2.1.5, 2.2.2, 2.3.2

## 1.3 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.

## 1.4 LIMITATIONS

This report is based on information retrieved from Endeavour Energy's GIS system, Before You Dig Australia (BYDA) and information received from the design.

## 1.5 SCHEDULE OF ABBREVIATIONS

*Table 2: Schedule of abbreviations.*

Abbreviation	Description
A	Amperes (Amps)
AS	Australian Standard
BYDA	Before you Dig Australia (formerly DBYD)
EFSG	Educational Facilities Standards and Guidelines
EMD	Electrical Maximum Demand
GIS	Geographical Information System
HV	High Voltage
LV	Low Voltage
MCR	Main Communications Room.
NBN	National Broadband Network
kVA	Kilo-Volt-Amperes
NCC/BCA	National Construction Code / Building Code of Australia
REF	Review of Environmental Factors
PV	Photovoltaic (Solar)
SEARS	Secretary's Environmental Assessment Requirements

## 2 ELECTRICAL SERVICES

A summary of the site electrical infrastructure is provided as follows:

### 2.1 GENERAL

The proposed new site's electrical connection will be designed to comply with the NSW Service and Installation rules, requirements of Endeavour Energy's connection policies, the Building Code of Australia and relevant Australian Standards including but not limited to the following:

- AS/NZS 3000:2018 – Wiring Rules.
- AS/NZS 3008:2017 – Electrical Installations - Selection of Cables.
- AS/NZS 61439:2016 – Low Voltage Switchgear & Control Gear Assemblies.
- AS 2067:2016 – Substations and High Voltage Installations Exceeding 1kV AC.
- AS 62271.1:2019 High Voltage Switchgear and Control gear-common specifications.

### 2.2 EXISTING ELECTRICAL INFRASTRUCTURE

The Gables New Primary School is a greenfield site with existing high voltage underground, low voltage distribution cabling and streetlighting infrastructure in the vicinity of the proposed development.

Endeavour Energy's High Voltage 11kV underground (HV UG) network reticulates on the northern footpath along the Pennant Wy of the development as shown in figure 2.

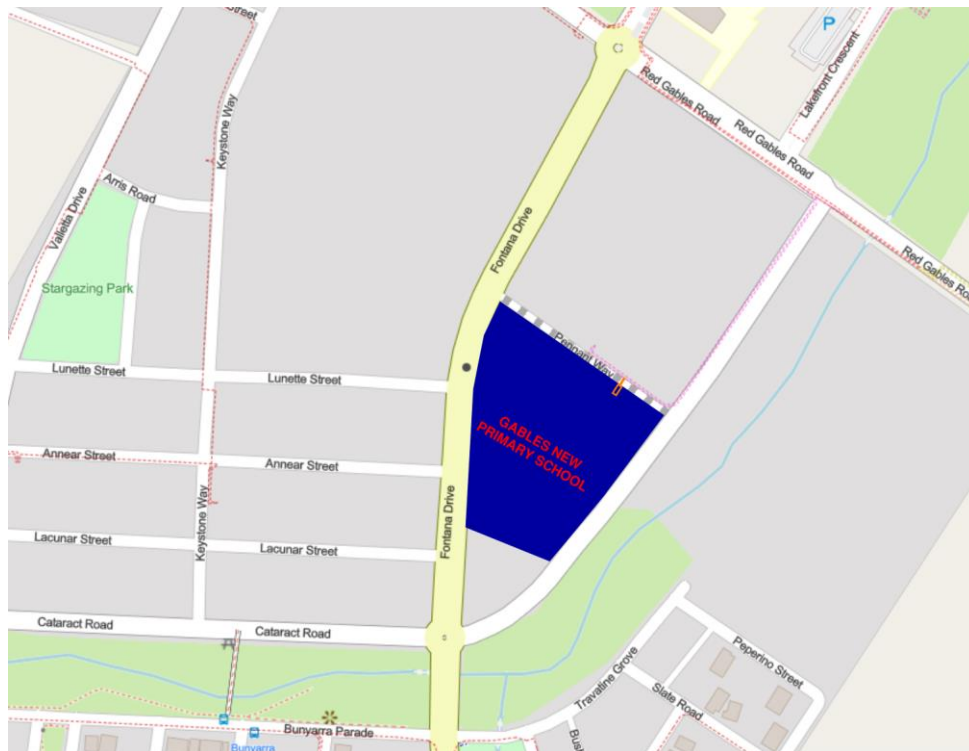


Figure 2: Existing High Voltage Network



## 2.3 PROPOSED ELECTRICAL INFRASTRUCTURE

The Electrical Estimated Maximum Demand (EMD) for the new school has been calculated in accordance with the requirements of AS/NZS 3000:2018 to be approximately 991kVA – 1,378A, 3 Phase. including 20% spare capacity in accordance with EFSG – refer to Tabel 3.

Table 3: Estimated Maximum Demand

### Electrical Maximum Demand Calculation

Project Name: BOX HILL NEW PRIMARY SCHOOL  
 Project Number: LCE-24495  
 Last Updated: 19.09.2024 By: MH

SUMMARY			
Project Name:		Total EMD (A/Ø)	Total EMD (kVA)
EMD (Primary School)		1293	929
Diversity (Primary School)	0.8	1034	743
25% EFSG Allowance (Primary School)		<b>1293</b>	<b>929</b>
EMD (Preschool)		85	61
Diversity (preschool)	0.8	68	49
25% EFSG Allowance (Preschool)		<b>85</b>	<b>61</b>
<b>Grand total</b>		<b>1378</b>	<b>991</b>

A 1000kVA Pad-Mount Substation will be required for the supply to the site. This has been determined based on the maximum demand and the standard sizes of the transformers approved by Endeavour Energy. The standard sizes of the transformers are 300kVA, 500kVA, 1000kVA and 1500kVA.

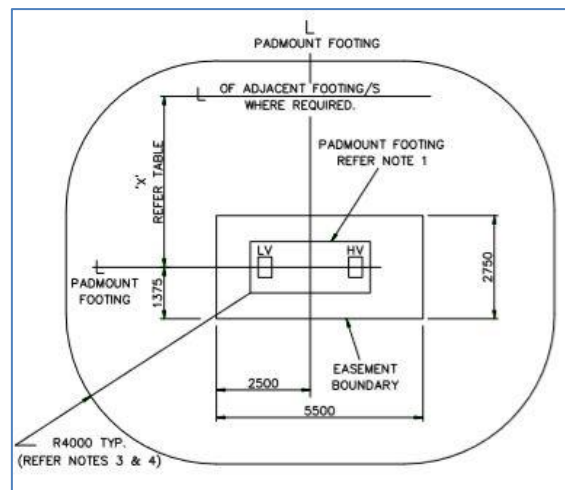


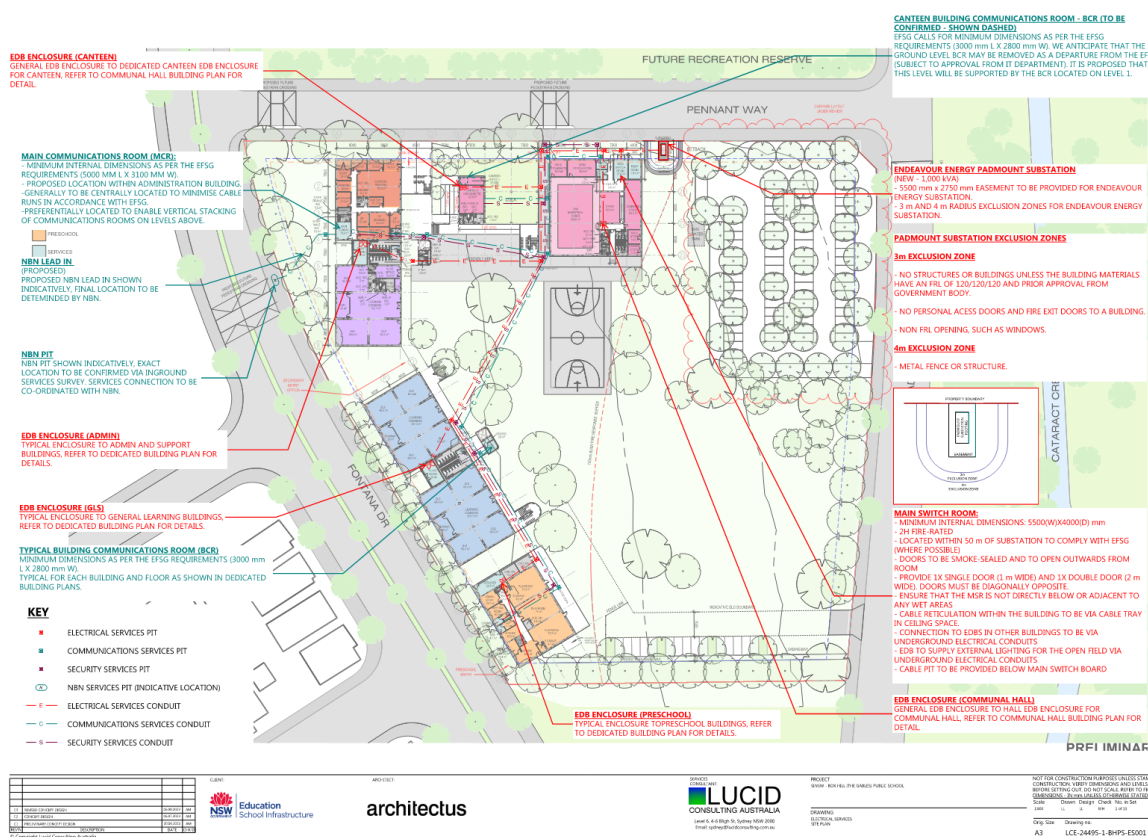
Figure 3: Easement Detail

An easement of 5.50m x 2.75m will be required for the Pad-Mount Substation itself (figure 6) with additional easements required over any HV underground cabling within the property boundary. The substation must be accessible at all times; hence it is typically required to be located on the property boundary with clear street access.



A dedicated Main Switchboard Room (MSR) is proposed to be located within 50 m of the proposed substation location in order to reduce the consumer mains length and optimise outgoing submain lengths. The MSR will accommodate a new main switchboard. From the new main switchboard, low voltage submains will distribute to various electrical distribution boards that will service the buildings. The sub-mains will be sized to meet the demand requirements for each portion of the building.

Electrical distribution boards will be located within dedicated enclosures with 60/60/60 fire ratings and smoke seals (where required) in order to comply with the requirements of the EFSG and BCA. Distribution boards will be provided with a minimum 25% spare physical capacity or 6 breaker spaces (the greater of the two) to comply with the EFSG. Metering will be provided in accordance with the BCA and EFSG.



## 2.5 ON-SITE ENERGY GENERATION

The project is targeting a 5-Star Green Star or similar rating, as such an on-site electricity generation system that reduces the peak electricity demand is proposed.

The estimated maximum demand for the proposed new school is calculated to be 991 kVA. A PV solar system of approximately 77kW is proposed to be installed on site to reduce the electrical demand by approximately 8%.

There is a number of factors that influence the actual power output of a solar system, and these variables are listed as follow:

- Geographical location of the system, the expected annual solar irradiation and cloud cover levels.
- Orientation and tilt of the solar panel array.
- Whether there is any shade on the panels.
- Actual operating temperature of the panels; and
- The performance of the panels and the inverter.

There are various panel sizes available on the market and different configurations that could make up a 90kW solar system, but a 70kW system will typically require between 300m<sup>2</sup> and 400m<sup>2</sup> of roof depending on the quality of the panels.

### 3 COMMUNICATION SERVICES

#### 3.1 COMMUNICATION INFRASTRUCTURE (NBN)

An assessment of the existing communications infrastructure has been conducted and we have confirmed that there is NBN infrastructure within the vicinity of the development that can be utilised to provide fibre to the premises as indicated in figure 5.

It will propose that a new communications connection be established by connecting to the existing network in Fontana Drive.



Figure 5: NBN Connectivity

##### 3.1.1 CONSULTATION WITH NBN

Emails were sent to the Department of Education (DoE) project team on 24/07/2024 and 06/08/2024 to confirm the carrier service type and requirements, in accordance with EFSG section 64.13.

#### 3.2 COMMUNICATION INFRASTRUCTURE (TELSTRA)

BYDA information indicates that Telstra infrastructure is not available within the vicinity of the proposed development. The nearest Telstra infrastructure has been identified on the Red Gables Road, which can be utilised to provide Telstra network to the premises as indicated in figure 6.

It is proposed that a new Telstra connection be established along the Contract Rd and Pennant Way before connecting to the school MCR from Fontana Dr.



### 3.2.1 CONSULTATION WITH TELSTRA

LCE24495-1-020D

## 4 INFRASTRUCTURE DELIVERY AND STAGING PLAN

The development of Gables New Primary School requires a well-structured approach for delivering the electrical and telecommunications infrastructure necessary to support the proposed school facilities, ensure compliance with regulatory standards, and meet operational requirements. This section outlines the approach for coordinating, funding, and delivering these infrastructure requirements.

### 4.1 COORDINATION AND PLANNING

Coordination will involve close collaboration between Schools Infrastructure NSW (SINSW), Lucid Consulting, and service providers such as Endeavour Energy, NBN, and Telstra. Regular coordination meetings and consultations with these stakeholders will ensure timely identification and mitigation of infrastructure-related risks. The following strategies will be employed:

- **Stakeholder Engagement:** Early and continuous engagement with Endeavour Energy, NBN, and Telstra to confirm requirements, timelines, and ensure alignment on connection approvals and installation schedules.
- **Utility Consultation:** Ongoing communication with utility providers to confirm supply capacities, easement requirements, and connection points for both electrical and telecommunications services.
- **Documentation Review:** Review of construction drawings, site plans, and utility maps to align project requirements with infrastructure needs and constraints, as outlined in the project's spatial drawing and service plans.

### 4.2 INFRASTRUCTURE STAGING

To align with construction timelines and minimize disruption, the infrastructure delivery will be staged as follows:

#### 4.2.1 STAGE 1 – SITE PREPARATION AND UTILITY DESIGN

- Installation of a 1000kVA pad-mount substation and main switchboard (MSB) for the required power capacity. Certified utility design and coordination with Endeavour Energy will ensure compliance with easement and access requirements.
- Connection to the existing NBN infrastructure on Fontana Drive and extension of Telstra services from Red Gables Road. Coordination with NBN and Telstra will ensure timely connections are established for the new school's Main Communications Room (MCR).

#### 4.2.2 STAGE 2 – BUILDING CONNECTIONS AND INTERNAL DISTRIBUTION

- Installation of low-voltage submains from the MSB to distribution boards (DBs) within each building. Each DB will be strategically located in dedicated enclosures and fitted with spare capacity, ensuring compliance with EFSG and BCA standards.
- Establishment of internal communications infrastructure linking all school buildings, facilitating both NBN and Telstra connectivity across the campus.

#### 4.2.3 STAGE 3 – FINAL COMMISSIONING AND TESTING

- Final testing and commissioning of electrical and telecommunications systems, ensuring they meet operational standards and support full school functionality.
- Validation of network connectivity, capacity verification, and performance testing to ensure optimal operation.

### 4.3 FUNDING

Funding for infrastructure development will be coordinated by SINSW, with budget allocations aligned with project milestones.

### 4.4 INFRASTRUCTURE DELIVERY

The delivery of infrastructure will be managed through a project governance framework involving key stakeholders:

- **Project Management:** SINSW, Project Manager, consulting engineers and utility provider will oversee the overall infrastructure installation, coordinating timelines, and ensuring alignment with construction schedules.
- **Contractor Engagement:** Licensed ASP Level 1 and electricians will be engaged for electrical utility and distribution services construction, and certified telecommunications technicians will be engaged for internal and external communication network installations.
- **Compliance Monitoring:** Regular audits and inspections will be conducted to verify compliance with NSW Service and Installation Rules, BCA requirements, and relevant Australian Standards.

### 4.5 MITIGATION MEASURES

To minimise potential risks associated with the delivery of electrical and telecommunications infrastructure, a series of mitigation measures are allowed for, including:

- **Environmental Management:** Noise, dust, and waste management protocols will be implemented during construction to protect the local community and surrounding environment.
- **Safety and Compliance:** All works will adhere to NSW regulations and Australian Standards, with regular site inspections to verify compliance and ensure safety across the project.
- **Capacity and Load Management:** The installation of a pad-mount substation will provide sufficient capacity to support school demand and future growth.
- **Telecommunications Reliability:** Engagement with NBN and Telstra will ensure reliable and resilient connectivity.
- **Stakeholder Engagement:** Ongoing communication with the local community, utility providers, and stakeholders will ensure transparency, address concerns, and facilitate prompt resolution of any issues that arise.

## 5 CONCLUSION

The Electrical and Communications Infrastructure Delivery and Management Plan for the Gables New Primary School is designed to facilitate the efficient, safe, and timely implementation of critical infrastructure, enabling the school's seamless operation upon opening. The infrastructure requirement, spanning power supply, distribution, and communication system, have been thoroughly assessed in consultation with relevant service providers, including Endeavour Energy, NBN, and Telstra.

Based on this assessment, it has been determined that the infrastructure, particularly the proposed 1000kVA substation, adequately meets the electrical demand of the new school site, with a built-in capacity to support future growth. By aligning with both NSW Service and Installation Rules and the Educational Facilities Standards and Guidelines (EFSG), the plan ensures compliance with industry standards and mitigates impacts on the surrounding community.

Key outcomes of this report indicate that the new primary school's infrastructure requirements can be met with coordinated implementation and adherence to proposed mitigation strategies. By addressing potential challenges proactively, such as community engagement and utility coordination, the school will be well-equipped to support educational activities in a sustainable and resilient manner.



## **6 APPENDIX A**

## Standard Connection Offer

---

16 August 2024

**Endeavour Energy Ref: ULL3656**

**Hasnat Alam**

Lucid Consulting Australia Pty Ltd  
4-6 Bligh Street  
Sydney NSW 2000

**ULL3656 – LOT 301, DP 1287967, Connection of Load Application: 1 PENNANT WAY, GABLES**

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,

*Mala Jayasekara*

Mala Jayasekara

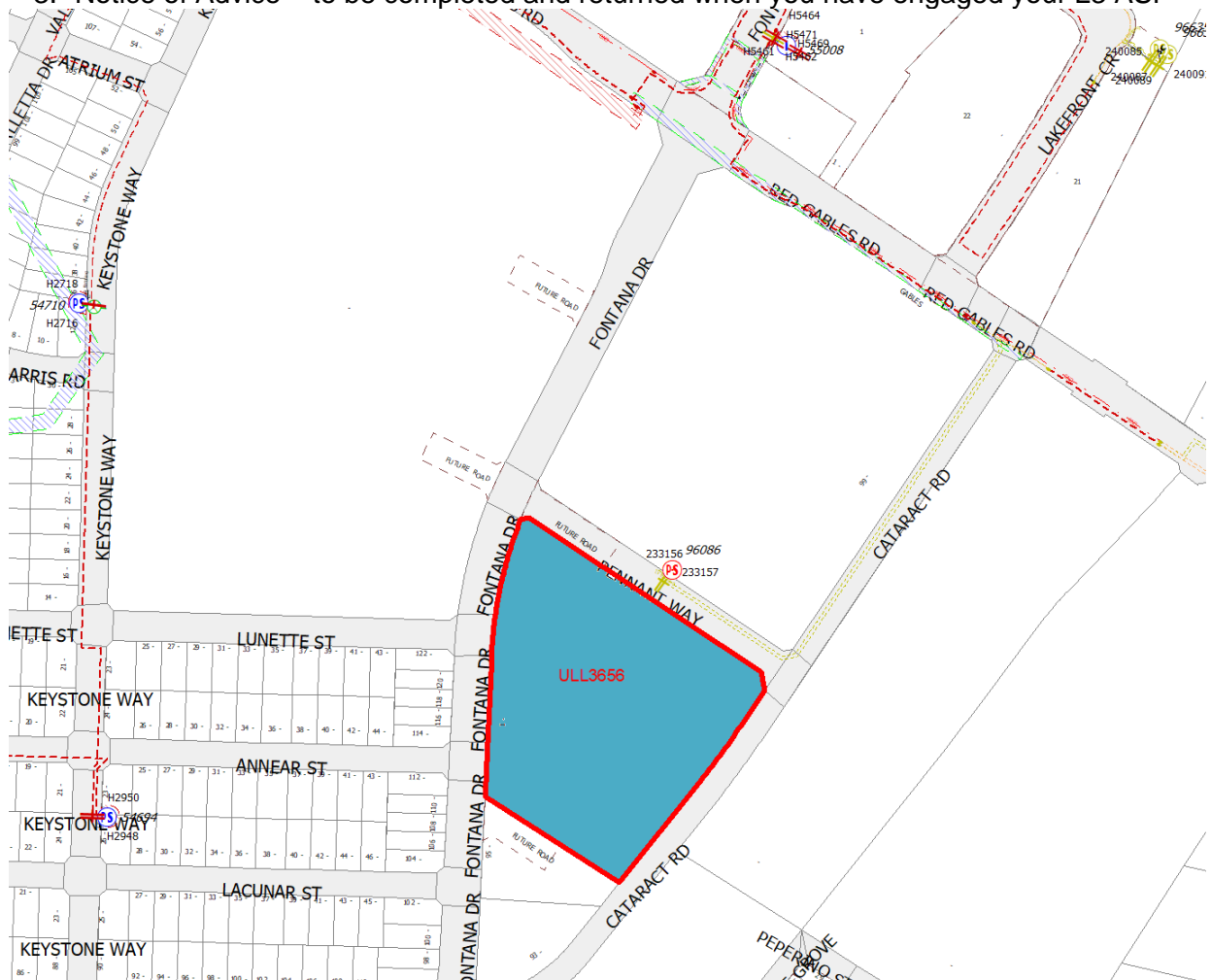
Customer Network Engineer

Ph: 02 9853 7915

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



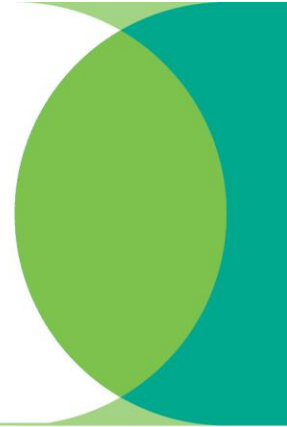
# Supply Offer

(Based on desktop assessment)

16 August 2024

**Endeavour Energy Reference: ULL3656**

<b>Development Details &amp; Applicant's Assessed Load:</b>	<p>This application is for a new Box Hill Public School 1 PENNANT WAY GABLES.</p> <p>The customer's requested load is 976A/phase (673kVA)</p>
<b>Development &amp; Site Plans received/not received:</b>	<p>Please provide with the Method of Supply (MOS)</p>
<b>HV/LV Connection Point &amp; Connection Asset Requirements:</b>	<p>Based on the total load applied, a new PM substation is required on site in accordance with Endeavour energy Network Connection Policy.</p> <p>The linkage point for the new substation could be "BOX HILL - Barlow Blvd - BP2332" HV feeder. This will be confirmed on the Design Brief stage.</p> <p>The LV connection point will be a CB in the new PM substation.</p>
<b>Connection Options:</b>	<p>Customer will need to engage a Level 3 ASP to investigate and submit a MOS to Endeavour Energy for further assessment. The proposed MOS shall clearly indicate the location of the proposed network connection point.</p> <p>The scope and works is to be undertaken in accordance with Endeavour Energy Connection Policy and must comply with all the relevant 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

16 August 2024

Endeavour Energy Reference: ULL3656

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



# Notice of Advice

20 Aug 2024

Endeavour Energy Ref: ULL3656

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 301, DP 1287967, 1 PENNANT WAY, GABLES ("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:	Lucid Consulting Australia Pty Ltd Hasnat Alam
Address:	4-6 Bligh St Sydney NSW 2000
Email:	hasnat.alam@lucidconsulting.com.au
Phone:	0432497998
(2) Developer	

<b>Company/Name:</b>	School Infrastructure, Department of Education, NSW Sumit Kusare
<b>Address:</b>	1 Pennant Way Gables NSW 2765
<b>Email:</b>	sumit.kusare@det.nsw.edu.au
<b>Phone:</b>	0417543834

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

<b>Company/Name:</b>	Lucid Consulting Australia Pty Ltd Hasnat Alam
<b>Address:</b>	4-6 Bligh Street Sydney NSW 2000
<b>Email:</b>	hasnat.alam@lucidconsulting.com.au
<b>Phone:</b>	0432497998

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

20/08/2024

---

Date

Sumit Kusare

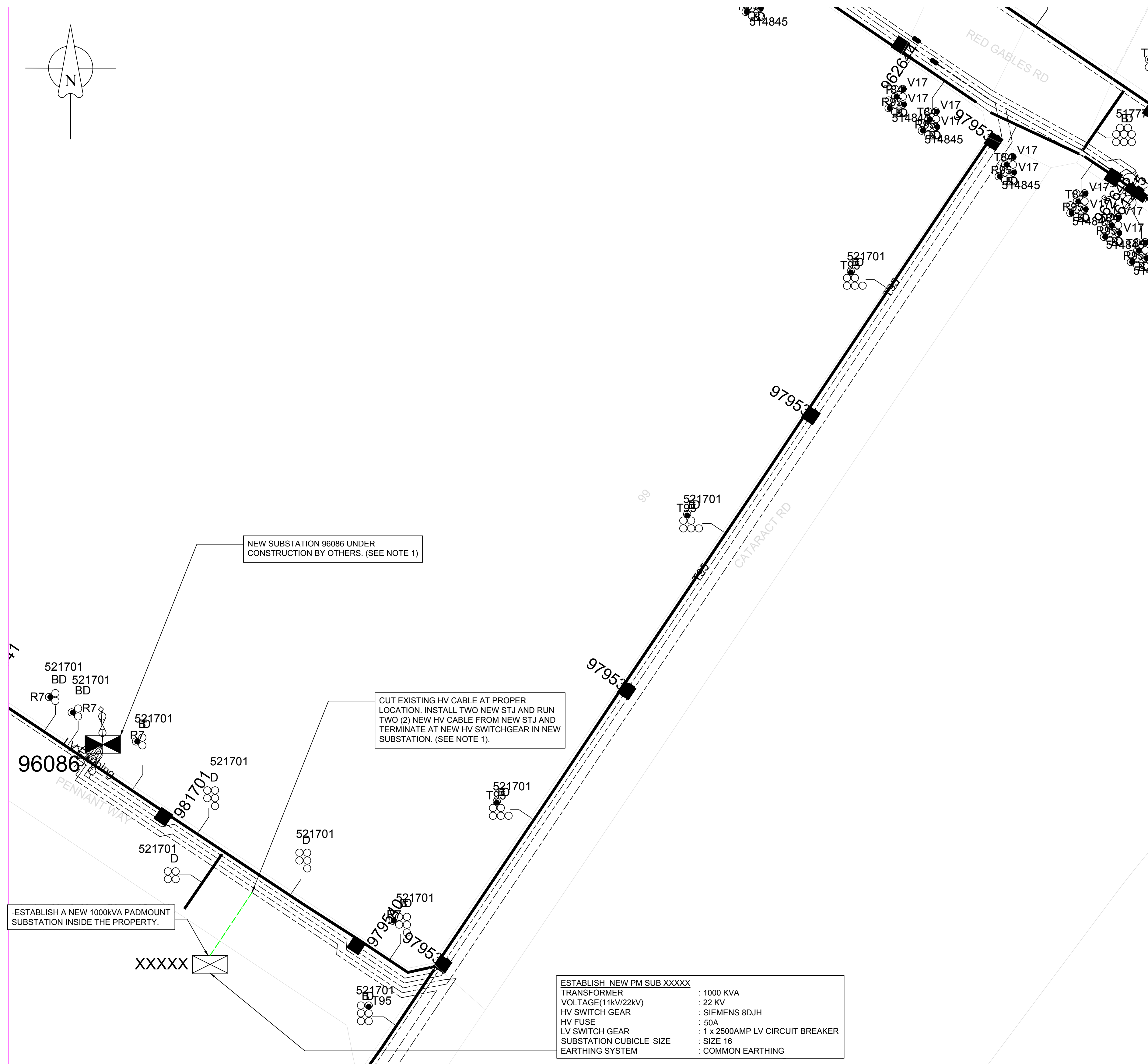
---

Name of Developer/Developer's Authorised Agent

School Infrastructure,  
Department of Education, NSW

---

Company Name



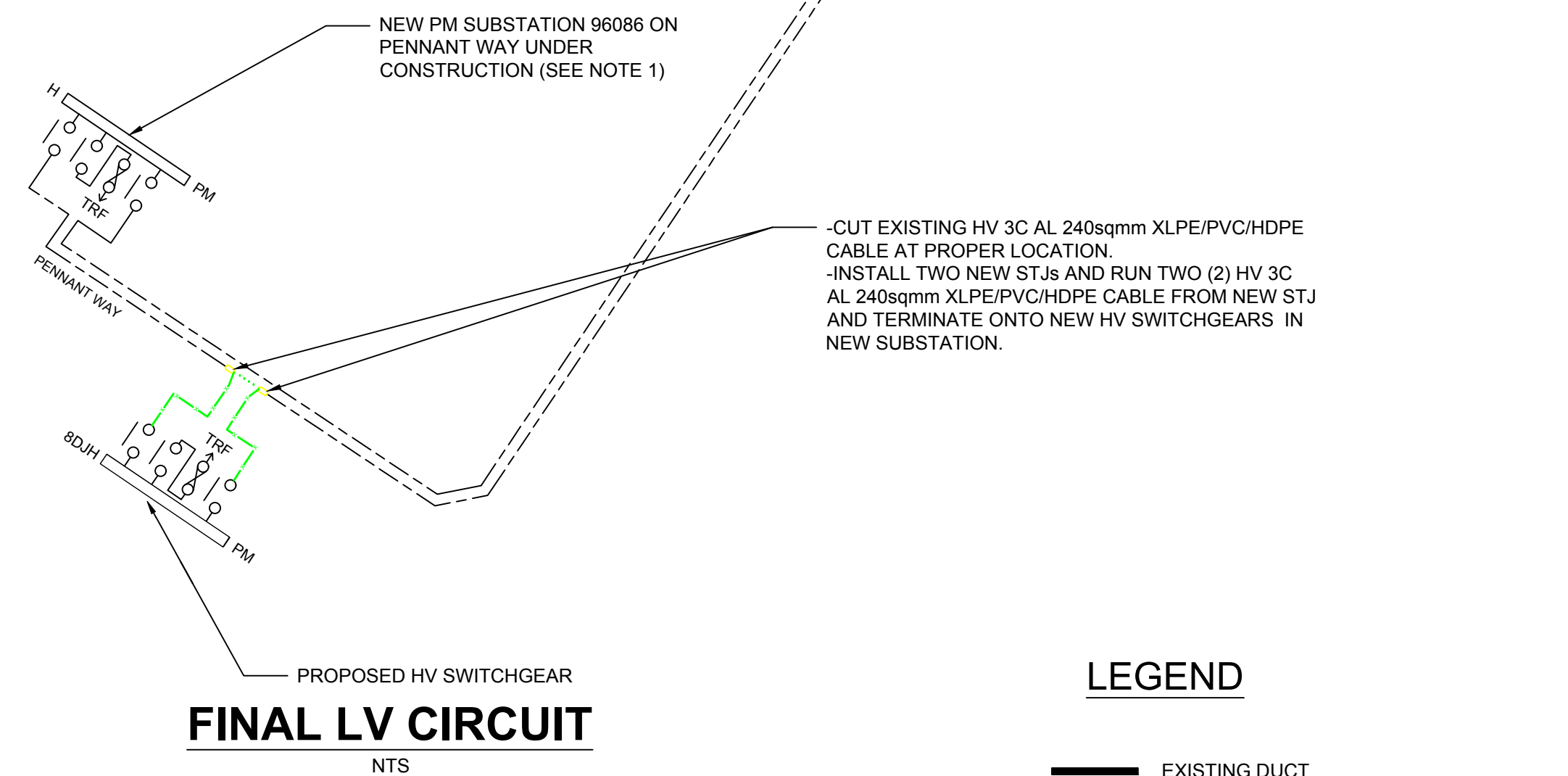
**NOTES:**

1. PROPOSED WORKS SUBJECT TO COMPLETION OF PROPOSED SUBSTATION 96086 AND ASSOCIATED HV FEEDER EXTENSION WORKS.













## WARNING






LIVE ENDEAVOUR ENERGY CABLES & OTHER SERVICES IN THIS AREA. PLEASE CONTACT DIAL BEFORE YOU DIG ON TEL: 1100 FOR SEARCHES TWO DAYS PRIOR TO EXCAVATION.

Cadastre: © Land and Property Information 2016



### LEGEND

- |   |                                |
|---|--------------------------------|
|  | EXISTING DUCT                  |
|  | EXISTING UNDERGROUND CABLES    |
|  | PROPOSED NEW UNDERGROUND CABLE |
|  | PROPOSED NEW HV TRENCHING      |
|  | REMOVE EXISTING CABLES         |
|  | EXISTING STREET LIGHT COLUMN   |
|  | EXISTING PILLAR                |
|  | EXISTING PADMOUNT SUBSTATION   |
|  | SPARE CONDUIT                  |
|  | CONDUIT WITH EXISTING CABLE    |
|  | EXISTING STJ                   |
|  | PROPOSED NEW STJ               |

AMENDMENTS	ORIGINAL	DRAFT No. 01	<div><div></div><div>THIS DRAWING AND THE CONTENTS THEREIN IS THE PROPERTY OF ENDEAVOUR ENERGY AND MAY NOT BE COPIED, REPRODUCED, DISTRIBUTED, LOANED OR USED WITHOUT THE WRITTEN CONSENT OF ENDEAVOUR ENERGY</div></div>	TEMPLATE VERSION No.5.20	<table><tr><th colspan="2">REFERENCE DRAWING'S</th><th colspan="2">WORK ORDERS</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td>GENERAL</td><td></td><td></td></tr><tr><td></td><td>OVERHEAD</td><td></td><td></td></tr><tr><td></td><td>UNDERGROUND</td><td></td><td></td></tr><tr><td></td><td>SUBSTATIONS</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	REFERENCE DRAWING'S		WORK ORDERS							GENERAL				OVERHEAD				UNDERGROUND				SUBSTATIONS											<table><tr><td colspan="2">CAMS File No.</td><td>ULL3656</td></tr><tr><td colspan="2">AM PROJ. No.</td><td></td></tr><tr><td colspan="2">HV SWITCHING</td><td></td></tr><tr><td colspan="2">EE DEPOT</td><td></td></tr><tr><td colspan="2">EE REGION</td><td></td></tr><tr><td colspan="2">HV OP DIAG</td><td></td></tr><tr><td colspan="2">LOCAL GOV AREA</td><td></td></tr></table>	CAMS File No.		ULL3656	AM PROJ. No.			HV SWITCHING			EE DEPOT			EE REGION			HV OP DIAG			LOCAL GOV AREA			<table><tr><td rowspan="2"></td><td>ORIGINAL SCALE</td><td rowspan="2">DO NOT SCALE DIMENSIONS IN METRES</td></tr><tr><td>DRAWN MD</td></tr><tr><td>DATE</td><td>23/08/24</td></tr><tr><td>CH'D</td><td>HA</td><td>DESIGN MD</td></tr></table>		ORIGINAL SCALE	DO NOT SCALE DIMENSIONS IN METRES	DRAWN MD	DATE	23/08/24	CH'D	HA	DESIGN MD	BOX HILL PUBLIC SCHOOL PROPOSED METHOD OF SUPPLY	<div><div></div><div>Endeavour Energy</div></div>	A1	1 OF 1 SHEETS
	REFERENCE DRAWING'S					WORK ORDERS																																																																			
	GENERAL																																																																								
	OVERHEAD																																																																								
	UNDERGROUND																																																																								
	SUBSTATIONS																																																																								
CAMS File No.		ULL3656																																																																							
AM PROJ. No.																																																																									
HV SWITCHING																																																																									
EE DEPOT																																																																									
EE REGION																																																																									
HV OP DIAG																																																																									
LOCAL GOV AREA																																																																									
	ORIGINAL SCALE	DO NOT SCALE DIMENSIONS IN METRES																																																																							
	DRAWN MD																																																																								
DATE	23/08/24																																																																								
CH'D	HA	DESIGN MD																																																																							
A	SHEET No 1 OF 1 SHEETS																																																																								

Hasnat Alam

**From:** Hasnat Alam  
**Sent:** Thursday, 19 September 2024 2:02 PM  
**To:** Mala Jayasekara  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer (Email 5 of 5)  
**Attachments:** LCE24495 - Estimated Maximum Demand Calculation\_Rev2~2024.09.19.pdf

Hi Mala

As discussed this morning, please see attached the revised EMD for the project. We propose a single unmetered supply connection from the new substation to the school MSB.

In relation to the DA, DoE is pursuing a REF planning pathway not a DA. The REF submission is in the drafting process. We can issue the draft REF once it is ready to submit.

However, the Department of Planning Housing and Infrastructure has received a request for Secretary’s Environmental Assessment Requirements (SEARs) for the Gables new primary school (SSD-68832972) and considered the proposed development as a State Significant Development under the Environmental Planning and Assessment Act 1979. Endeavour Energy’s property development team has received the SEARS on 4<sup>th</sup> of April 2024.

Please let me know if you have any questions.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207

**A** Level 6, 4-6 Bligh Street Sydney NSW 2000 | **MA** GPO Box 3508 Sydney NSW 2001  
**E** [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | **W** [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

**ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY**

[Disclaimer](#)

**From:** Mala Jayasekara <Mala.Jayasekara@endeavourenergy.com.au>  
**Sent:** Monday, 16 September 2024 11:28 AM  
**To:** Hasnat Alam <Hasnat.Alam@lucidconsulting.com.au>  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer (Email 5 of 5)

Hi Hasnat,

Thank you for sending the site plan.

As a general guideline, a single point of supply should be designated for each site. We are unable to permit two connection points for a single site.

Could you also provide the Development Approval (DA) for this project?


Thank you

Kind Regards,

**Mala Jayasekara** | Customer Network Engineer

M 0474 204 117  
Level 40-42, 8 Parramatta Square, 10 Darcy Street  
Parramatta NSW 2150. Dharug Country

[endeavourenergy.com.au](http://endeavourenergy.com.au)



Endeavour Energy respectfully acknowledges the Traditional Custodians on whose lands we live, work, and operate and their Elders past, present and emerging.

**From:** Hasnat Alam <[Hasnat.Alam@lucidconsulting.com.au](mailto:Hasnat.Alam@lucidconsulting.com.au)>  
**Sent:** Monday, September 16, 2024 8:05 AM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer (Email 5 of 5)

Hi Mala

Please see attached the site plan indicating boundary.

A pre-school building (indicating on the south-west of the site) is planned for the school. We propose a 400amp rated circuit breaker on the LV side of the proposed pad mount substation, which will be dedicated for the pre-school supply. The LV consumer main distance from the proposed substation is calculated to be around 150m. Please let us know if this is considered acceptable.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207  
**A** Level 6, 4-6 Bligh Street Sydney NSW 2000 | **MA** GPO Box 3508 Sydney NSW 2001  
**E** [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | **W** [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

**ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY**

[Disclaimer](#)

**From:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Sent:** Sunday, 15 September 2024 10:48 PM  
**To:** Hasnat Alam <[Hasnat.Alam@lucidconsulting.com.au](mailto:Hasnat.Alam@lucidconsulting.com.au)>  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer (Email 5 of 5)

Hi Hasnat,  
  
Thank you for providing the photos.

Could you please clarify the following points:

- Is there a planned childcare centre for this site in the future?
- Could you also provide a site plan for the school, including the complete boundary details

Kind Regards,  
  
**Mala Jayasekara** | Customer Network Engineer  
  
M 0474 204 117  
Level 40-42, 8 Parramatta Square, 10 Darcy Street  
Parramatta NSW 2150. Dharug Country

[endeavourenergy.com.au](http://endeavourenergy.com.au)



Endeavour Energy respectfully acknowledges the Traditional Custodians on whose lands we live, work, and operate and their Elders past, present and emerging.

**From:** Hasnat Alam <[Hasnat.Alam@lucidconsulting.com.au](mailto:Hasnat.Alam@lucidconsulting.com.au)>  
**Sent:** Thursday, September 5, 2024 9:46 AM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** FW: ULL3656 - Pennant Way - Accepted Supply Offer (Email 5 of 5)

This is the last photo for the proposed substation location.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207



A Level 6, 4-6 Bligh Street Sydney NSW 2000 | MA GPO Box 3508 Sydney NSW 2001  
E [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | W [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY

*Disclaimer*

**From:** Hasnat Alam  
**Sent:** Thursday, September 5, 2024 9:45 AM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** FW: ULL3656 - Pennant Way - Accepted Supply Offer (Email 4 of 5)

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



M +61 0451 981 207

A Level 6, 4-6 Bligh Street Sydney NSW 2000 | MA GPO Box 3508 Sydney NSW 2001  
E [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | W [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY

*Disclaimer*

**From:** Hasnat Alam  
**Sent:** Thursday, September 5, 2024 9:44 AM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** FW: ULL3656 - Pennant Way - Accepted Supply Offer (Email 3 of 5)

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



M +61 0451 981 207

A Level 6, 4-6 Bligh Street Sydney NSW 2000 | MA GPO Box 3508 Sydney NSW 2001  
E [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | W [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY

*Disclaimer*

**From:** Hasnat Alam  
**Sent:** Thursday, September 5, 2024 9:43 AM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** FW: ULL3656 - Pennant Way - Accepted Supply Offer (Email 2 of 5)

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



M +61 0451 981 207

A Level 6, 4-6 Bligh Street Sydney NSW 2000 | MA GPO Box 3508 Sydney NSW 2001  
E [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | W [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)



[Disclaimer](#)

**From:** Hasnat Alam  
**Sent:** Thursday, September 5, 2024 9:43 AM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** FW: ULL3656 - Pennant Way - Accepted Supply Offer (Email 1 of 5)

Hi Mala

As discussed, please see attached the photo and completed FPJ form.

I will send 4x additional photos over the next 4 emails.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207

**A** Level 6, 4-6 Bligh Street Sydney NSW 2000 | **MA** GPO Box 3508 Sydney NSW 2001  
**E** [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | **W** [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

[Disclaimer](#)

**From:** Hasnat Alam  
**Sent:** Monday, September 2, 2024 5:50 PM  
**To:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer

Hi Mala

Further to our discussion last week, please see attached the completed FPJ4103 form and site photos. Based on the site inspection, the pad mount substation 96086 is existing, which indicates to be installed in Arc GIS.

As a result, the PMOS is accurate. Please let me know if you need any further information.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207

**A** Level 6, 4-6 Bligh Street Sydney NSW 2000 | **MA** GPO Box 3508 Sydney NSW 2001  
**E** [hasnat.alam@lucidconsulting.com.au](mailto:hasnat.alam@lucidconsulting.com.au) | **W** [www.lucidconsulting.com.au](http://www.lucidconsulting.com.au)

[Disclaimer](#)

**From:** Mala Jayasekara <[Mala.Jayasekara@endeavourenergy.com.au](mailto:Mala.Jayasekara@endeavourenergy.com.au)>  
**Sent:** Monday, August 26, 2024 9:59 PM  
**To:** Hasnat Alam <[Hasnat.Alam@lucidconsulting.com.au](mailto:Hasnat.Alam@lucidconsulting.com.au)>  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer

Hi Hasnat,

Thank you for the draft MOS drawing. However, the MOS package is incomplete and missing required documentation. Please provide the necessary documentation such as FPJ4103, cover letter, GIS mark ups (HV, LV and SL), site photos etc etc..

Thank you

Kind Regards,

**Mala Jayasekara** | Customer Network Engineer



Endeavour Energy respectfully acknowledges the Traditional Custodians on whose lands we live, work, and operate and their Elders past, present and emerging.

**From:** Hasnat Alam <Hasnat.Alam@lucidconsulting.com.au>  
**Sent:** Monday, August 26, 2024 3:47 PM  
**To:** Mala Jayasekara <Mala.Jayasekara@endeavourenergy.com.au>  
**Subject:** RE: ULL3656 - Pennant Way - Accepted Supply Offer

Hi Mala

Please see attached the Proposed Method of Supply (PMOS) for the project.

Happy to discuss on the phone should you have any questions on the PMOS.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207

**A** Level 6, 4-6 Bligh Street Sydney NSW 2000 | **MA** GPO Box 3508 Sydney NSW 2001  
**E** hasnat.alam@lucidconsulting.com.au | **W** www.lucidconsulting.com.au

**ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY**

[Disclaimer](#)

**From:** Hasnat Alam  
**Sent:** Tuesday, August 20, 2024 4:04 PM  
**To:** Mala.Jayasekara@endeavourenergy.com.au  
**Subject:** ULL3656 - Pennant Way - Accepted Supply Offer [Filed 20 Aug 2024 16:04]

Hi Mala

Please see attached the accepted supply offer and completed NoA from our client School Infrastructure NSW (SINSW). The details of the client is included in the attached file.

We will submit sketch to receive PMOS for the project soon.

Please let me know if you need any further information.

Regards  
**Hasnat Alam**  
Associate, NSW Infrastructure Lead  
BE (Elec) MIEAust, CPEng, NER, RPEQ, ASP Level 3



**M** +61 0451 981 207

**A** Level 6, 4-6 Bligh Street Sydney NSW 2000 | **MA** GPO Box 3508 Sydney NSW 2001  
**E** hasnat.alam@lucidconsulting.com.au | **W** www.lucidconsulting.com.au

**ADELAIDE | ALICE SPRINGS | BRISBANE | CANBERRA | DARWIN | MELBOURNE | PERTH | SYDNEY**

[Disclaimer](#)



## **7 APPENDIX B**

# LCE24495.00 - Gables New Primary School ASP Level 3 - Delivery Plan

