

The Secretary  
NSW Department of Planning, Industry and Environment

4 November 2020

**ATTENTION: Candice Pon**

Dear Sir or Madam

I refer to the Department's below email of 2 November 2020 regarding the notice of exhibition of the Environmental Impact Statement (EIS) for State Significant Development SSD-10472 Expansion of the Museums Discovery Centre at 2 Green Road, Castle Hill (LOT 102 DP 1130271). Submissions need to be made to the Department by 1 December 2020.

Please refer to Endeavour Energy's submission made to the Department on 19 June 2020 regarding the Request for Secretary's Environmental Assessment Requirements (SEARs) for State Significant Development SSD-10472 at 2 Green Road, Castle Hill (LOT 102 DP 1130271) within The Hills Shire LGA for the Expansion of the Museums Discovery Centre including removal of vegetation, earthworks and site preparation, and the construction and operation of a new building for the storage, conservation, research and display of the Powerhouse collection. The recommendations and comments provided therein generally remain valid.

Subject to the foregoing and the following further recommendations and comments Endeavour Energy has no objection to the Development Application.

- Network Capacity / Connection

Endeavour Energy has noted the following in the Appendix M 'Infrastructure Services Report' of the EIS addressing the suitability of the site for the development in regard to whether electricity services are available and adequate for the development.

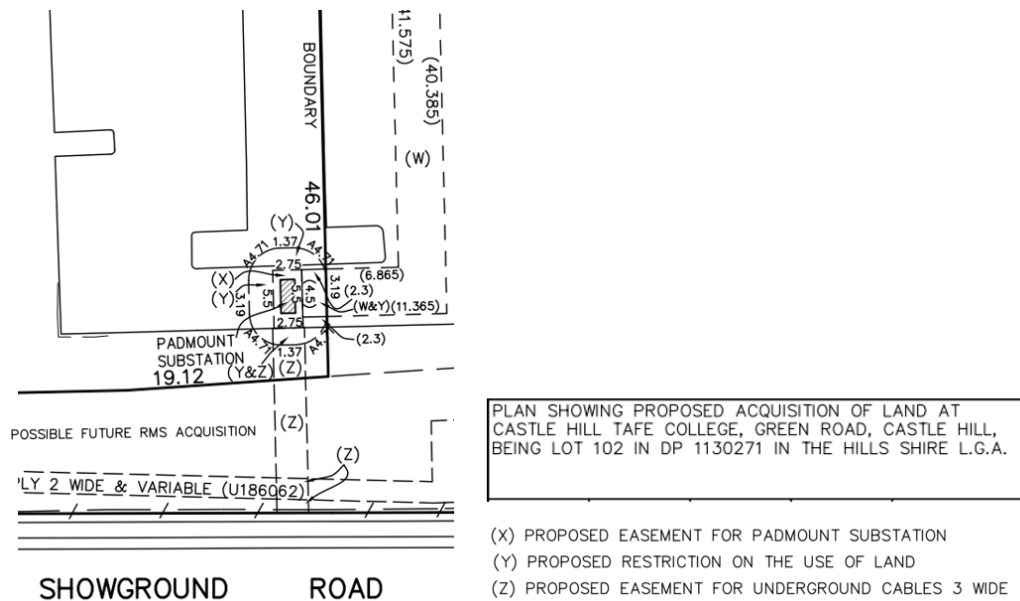
**2.1 Incoming Supply**

Northrop has initiated correspondence to the local energy authority, Endeavour Energy, to determine the proposed supply arrangement.

The expected maximum demand requires that a 1000 kVA Kiosk substation be installed on site. Electrical supply is proposed to be a direct underground service from this new substation. The contractor will be required to provide a suitable cable pathway to enable the installation of the consumer mains cabling.

As such, Endeavour Energy's Network Connections Branch are managing the conditions of supply with the proponent and their Accredited Service Provider (ASP) (including consideration of the grid connected 100 kW photovoltaic panels). To complete the application for connection of load the applicant and their ASP in due course will need to address the list of requirements included in the Supply Offer in order to comply with Endeavour Energy's standards and with the Terms and Conditions of the Model Standing Offer for a Standard Connection Service. Further advice can be obtained from Endeavour Energy's Network Connections Branch (via Head Office enquiries on business days on telephone: 133 718 or (02) 9853 6666 from 9am - 4:30pm).

Endeavour Energy has also noted that as shown in the following extract of Appendix X 'Plan of Subdivision' of the EIS N provision has been made for the easements and restriction for fire rating required for the padmount substation on the site.



- Location of Electricity Easements / Prudent Avoidance

Endeavour Energy has noted the following in Appendix E 'Acoustic Report' of the EIS. Similarly consideration needs to be provided to the padmount substation required on site. The transformer in a substation may emit a hum – especially when under heavy load say in the summer peak when use of air conditioning is at its highest. The noise is usually not perceptible enough to be regarded as disruptive and/or to the point where amelioration measures are required but should still be considered.

### 7.3 Noise from mechanical services

At this stage the mechanical equipment have not been finalised/selected therefore their noise levels are not known. Once the equipment is selected, the noise levels can be obtained and a mechanical noise assessment can be conducted for the CC stage. Compliance with environmental noise criteria can be achieved through normal engineering controls such as the following:

- Vegetation Management

Endeavour Energy has noted that whilst Appendix G 'Landscape Plans' of the EIS does not show the location of the proposed padmount substation, Appendix F 'Landscape Report' includes the following:

## Tree Removal Strategy

### Tree Replacement

#### Locations

Replacement planting locations will include:

- **On site:** wherever feasible replacement planting across the MAAS site will be proposed. A commitment is made to tree and native understorey planting to screen the relocated substation. As well as strategic planting along the frontage of Building J to ensure its facade is integrated into Showground Road and the landscape whilst also remaining highly visible for all visitors to the Museum. Additional planting along the Museum site boundary (Windsor and Showground Road) will be considered, but existing dense trees may limit opportunities and so alternatives off site will need to be considered.

# Conclusion

Consider proximity to electrical infrastructure and water pipes in landscaping selection.

- Careful consideration has been given to tree locations to avoid potential conflicts with root zones and existing service pipes.
- The proposed substation has been located appropriately and coordinated with the architecture and landscape architectural proposals. Refer to Northrop Engineer's drawings for further detail on substation.

It is not readily apparent how the proposed landscape proposals will not conflict with the existing and proposed electricity infrastructure on the site. The landscape designer will need to reconsider if the proposed plantings achieve the requirements outlined in Endeavour Energy's previous submission in regard to the proximity to the overhead power lines and underground cables. For the padmount substation, no vegetation is to be planted within the substation easement. Screening vegetation should be planted a minimum distance of 800mm plus half of the mature canopy width from the substation and have shallow / non-invasive roots. This is to avoid trees growing over the easement as falling branches may damage the cubicle and the electricity infrastructure as do tree roots. All vegetation is to be maintained in such a manner that it will allow unrestricted access by electrical workers to the substation easement all times.

Could you please pass on a copy of this submission to the applicant? Should you wish to discuss this matter, or have any questions, please do not hesitate to contact me or the contacts identified above or in Endeavour Energy's previous submission in relation to the various matters. Due to the high number of development application / planning proposal notifications submitted to Endeavour Energy, to ensure a response contact by email to [property.development@endeavourenergy.com.au](mailto:property.development@endeavourenergy.com.au) is preferred.

Due to the current COVID-19 health risk, as many as possible of Endeavour Energy staff are working from home. As a result there is only a small contingent located at the Huntingwood head office for essential operations. Although working from home, access to emails and other internal stakeholders is now somewhat limited and as a result it may take longer than usual to respond to enquiries. Thank you for your understanding during this time.

Yours faithfully

Cornelis Duba

Development Application Specialist

Network Environment & Assessment

M: 0455 250 981

E: [cornelis.duba@endeavourenergy.com.au](mailto:cornelis.duba@endeavourenergy.com.au)

51 Huntingwood Drive, Huntingwood NSW 2148

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



**From:** Jessica Fountain <Jessica.Fountain@planning.nsw.gov.au>  
**Sent:** Monday, 2 November 2020 9:54 AM  
**To:** Property Development <Property.Development@endeavourenergy.com.au>  
**Cc:** Candice Pon <Candice.Pon@planning.nsw.gov.au>  
**Subject:** Notice of Exhibition – Expansion of the Museums Discovery Centre (SSD-10472)

Dear Sir/Madam

The Department of Planning, Industry and Environment has received an Environmental Impact Statement (EIS) for the Expansion of the Museums Discovery Centre (SSD-10472).

The EIS will be publicly exhibited from Wednesday 4 November 2020 to Tuesday 1 December 2020 .

The EIS can be viewed on the Department's Major Projects website at <https://www.planningportal.nsw.gov.au/major-projects/project/35916> from Wednesday 4 November 2020. If you wish to view the documents prior to this date, you will need to register an agency account on the Major Projects site. A User Guide is attached for your reference.

The Department invites you to advise on the proposal, including advice on recommended conditions by the **Tuesday 1 December**.

If you have any enquiries, please contact Candice Pon on 9995 6644 or at [Candice.Pon@planning.nsw.gov.au](mailto:Candice.Pon@planning.nsw.gov.au).

Regards

**Jess Fountain**  
**DA Coordinator**

Key Sites, Industry and Regional Assessments | Department of Planning, Industry and Environment  
T 02 9860 1559 | E [jessica.fountain@planning.nsw.gov.au](mailto:jessica.fountain@planning.nsw.gov.au)  
4PSQ Level 17, 12 Darcy Street, Parramatta NSW 2150 | Locked Bag 5022, Parramatta NSW 2124  
[www.dpie.nsw.gov.au](http://www.dpie.nsw.gov.au)



**Planning,  
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*The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.*



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