From: Cornelis Duba
Sent: Monday, 1 August 2016 12:37 PM
To: 'information@planning.nsw.gov.au' <information@planning.nsw.gov.au>
Cc: 'Rebecca.sommer@planning.nsw.gov.au' <Rebecca.sommer@planning.nsw.gov.au>; Philip Wilson <Philip.Wilson@endeavourenergy.com.au>
Subject: NSW PLANNING & ENVIRONMENT DEVELOPMENT APPLICATION SSD 7500 RE 5 and 9 Culverston Road, Minto

The Secretary
NSW Planning & Environment

ATTENTION: Chris Ritchie, Director Industry Assessments

Dear Sir or Madam

I refer to NSW Planning & Environment's letter of 14 June 2016 regarding Development Application SSD 7500 at 5 and 9 Culverston Road, Minto (Lot 3 in DP 817793 and Lot 400 in DP 875711) for 'Warehouse and Logistics Hub'. Submissions need to be made by 1 August 2016.

As shown in the below site plans from Endeavour Energy's G/Net master facility model there is significant electricity infrastructure over (including easements for existing overhead power lines and a padmount substation) and in the vicinity of the site including Endeavour Energy's Minto Zone Substation at 19 Huntsmore Road Minto (Lot 231 DP 255701). Please note the location of any electricity infrastructure, boundaries etc. shown on the plan is indicative only and this plan is not a 'Dial Before You Dig' plan under the provisions of Part 5E 'Protection of underground electricity power lines' of the *Electricity Supply Act 1995* (NSW).

As a nearby landowner/occupier Endeavour Energy has no objections to the proposed development of the precincts. From a electricity transmission or distribution networks perspective its recommendations and comments are as follows:

- Network Capacity / Connection

In due course the applicant for the future proposed development of the site will need to submit an application for connection of load via Endeavour Energy's Network Connections Branch to carry out the final load assessment and the method of supply will be determined. Depending on the outcome of the assessment, any required padmount substations will need to be located within the property (in a suitable and accessible location) and be protected (including any associated cabling) by an easement and associated restrictions benefiting and gifted to Endeavour Energy. Please find attached for the Panels' reference a copy of Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights'. Further details are available by contacting Endeavour Energy's Network Connections Branch via Head Office enquiries on telephone: 133 718 or (02) 9853 6666 from 8am - 5:30pm or on Endeavour Energy's website under 'Home > Residential and business > Connecting to our network' via the following link:

http://www.endeavourenergy.com.au/

Endeavour Energy has noted the following in the Environmental Impact Statement (Page 67):

Electrical

The electrical supply authority for the area is Endeavour Energy. An existing kiosk substation located at the end of Culverston Rd adjacent to the roundabout services the area. High voltage is reticulated along Culverston Rd from Airds Rd. Contact has been made with Endeavour Energy and information regarding the existing electrical infrastructure can be provided following payment through an enquiry application during future stages of the development.

Based on assumptions of Endeavour Energy's standard kiosk sizes, the kiosk substation servicing the existing development of the site is estimated to have a capacity of 1MVA or 1.5MVA. Based on this assumption, the existing kiosk substation is unlikely to have sufficient capacity to serve all of the new development. However, utilising this substation is considered acceptable, as it may be possible to utilise this existing asset to provide power to approximately half of the site.

Further to the above, DBYD details show an Endeavour Energy asset heading east from the kiosk substation terminating in the development, however it is not clear what this is serving. As part of the design process with Endeavour Energy this asset will need to be removed/relocated. Any existing low voltage connections within the development site will be decommissioned as the site is developed.

In regards to the final paragraph, as shown in the below site plan from Endeavour Energy's G/Net master facility model for Lot 400 in DP 875711, it would appear that the 'asset heading east from the kiosk substation' appears to have been intended to facilitate a proposed subdivision of the lot.

- Asset Relocation

If required to facilitate the future development of the site, advice on the possible relocation of the existing electrical assets on the site can be obtained by submitting a Technical Review Request to Endeavour Energy's Network Connections Branch, the form for which FPJ6007 is attached and further details (including the applicable charges) are available from Endeavour Energy's website via the following link under 'Our connection services':

http://www.endeavourenergy.com.au/

Alternatively the applicant future development of the site should engage a Level 3 Accredited Service Provider (ASP) approved to design distribution network assets, including underground or overhead. The ASP scheme is administered by NSW Trade & Investment and details are available on their website via the following link:

http://www.resourcesandenergy.nsw.gov.au/energy-supply-industry/pipelines-electricity-gas-networks/network-connections/contestable-works

- Easement Management / Network Access

Please find attached for the applicant's reference a copy of Endeavour Energy's 'General Restrictions for Overhead Power Lines'. The following is a summary of the usual / main terms of Endeavour Energy's electrical easements works requiring that the land owner:

- Not install or permit to be installed any services or structures within the easement site.
- Not alter the surface level of the easement site.
- Not do or permit to be done anything that restricts access to the easement site without the prior written permission of Endeavour Energy and in accordance with such conditions as Endeavour Energy may reasonably impose.

Accordingly, if the proposed development will encroach/affect Endeavour Energy's easements / electrical assets, contact must first be made with the Endeavour Energy's Easement Officer, Philip Wilson, on 9853 7110 alternately Philip.Wilson@endeavourenergy.com.au.

It is imperative that the access to the existing electrical infrastructure adjacent and on the site is maintained at all times. To ensure that supply electricity is available to the community, access to the electrical assets may be required at any time.

- Safety Clearances

Any future proposed buildings, structures, etc. must comply with the minimum safe distances / clearances for voltages up to and including 132,000 volts (132kV) as specified in AS/NZS 7000:2010 'Overhead line design - Detailed procedures' and the 'Service and Installation Rules of NSW'. Different voltages are kept at different heights, the higher the voltage, the higher the wires are positioned on the pole. Similarly, the higher the voltage, the greater the required building setback. These distances must be maintained at all times a eg. for the erection of scaffolding etc., and regardless of the Council's allowable building setbacks etc. under its development controls, allowance must be made for the retention of appropriate / safe clearances.

- Earthing

The construction of any building or structure (including fencing) that is connected to or in close proximity to Endeavour Energy's electrical network is required to comply with AS/NZS 3000:2007 'Electrical installations' to ensure that there is adequate connection to the earth. Inadequate connection to the earth places persons and the electricity network at risk.

- Vegetation Management

The planting of large trees in the vicinity of electricity infrastructure is not supported by Endeavour Energy. Suitable planting needs to be undertaken in proximity of electricity infrastructure. Only low growing shrubs not exceeding 3.0 metres in height, ground covers and smaller shrubs, with non-invasive root systems are the best plants to use. Larger trees should be planted well away from electricity infrastructure and even with underground cables, be installed with a root barrier around the root ball of the plant. Landscaping that interferes with electricity infrastructure may become subject to Endeavour Energy's Vegetation Management program and/or the provisions of the *Electricity Supply Act 1995* (NSW) Section 48 'Interference with electricity works by trees' by which under certain circumstances the cost of carrying out such work may be recovered.

- Asbestos

Endeavour Energy's G/Net master facility model indicates that Culverston Road is a location identified or suspected of having asbestos or asbestos containing materials (ACM) present within the electricity network. Whilst Endeavour Energy's underground detail is not complete within G/Net in some areas, in older communities, cement piping was regularly used for the electricity distribution system and in some instances containing asbestos to strengthen the pipe; for insulation; lightness and cost saving.

When undertaking works on or in the vicinity of Endeavour Energy's electricity network, asbestos or ACM must be identified by a competent person employed by or contracted to the applicant and an asbestos management plan, including its proper disposal, is required whenever construction works has the potential to impact asbestos or ACM.

The company's potential locations of asbestos to which construction / electricity workers could be exposed include:

- customer meter boards;
- conduits in ground;
- padmount substation culvert end panels; and
- joint connection boxes and connection pits.

Further details are available by contacting Endeavour Energy's Health, Safety & Environment via Head Office enquiries on telephone: 133 718 or (02) 9853 6666 from 8am - 5:30pm.

- Demolition

Demolition work is to be carried out in accordance with Australian Standard AS2601: The demolition of structures (AS 2601). All electric cables or apparatus which are liable to be a source of danger, other than a cable or apparatus used for the demolition works shall be disconnected ie. the existing customer service lines will need to be isolated and/or removed during demolition. Appropriate care must be taken to not otherwise interfere with any electrical infrastructure on or in the vicinity of the site eg. street light columns, power poles, overhead and underground cables etc.

- Dial before You Dig

Before commencing any underground activity the applicant is required to obtain advice from the ***Dial before You Dig* 1100** service in accordance with the requirements of the *Electricity Supply Act 1995* (NSW) and associated Regulations. This should be obtained by the applicant not only to identify the location of any underground electrical infrastructure across the sites, but also to identify them as a hazard and to properly assess the risk.

- Public Safety

Workers involved in work near electricity infrastructure run the risk of receiving an electric shock and causing substantial damage to plant and equipment. I have attached Endeavour Energy's public safety training resources, which were developed to help general public / workers to understand why you may be at risk and what you can do to work safely. The public safety training resources are also available via Endeavour Energy's website via the following link:

http://www.endeavourenergy.com.au/wps/wcm/connect/ee/nsw/nsw+homepage/communitynav/safety/safety+brochures

Could you please pass on the attached resources 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 in relation to the various matters. As I am working on different projects across the company's franchise area, to ensure a response contact by email is preferred.

Yours faithfully
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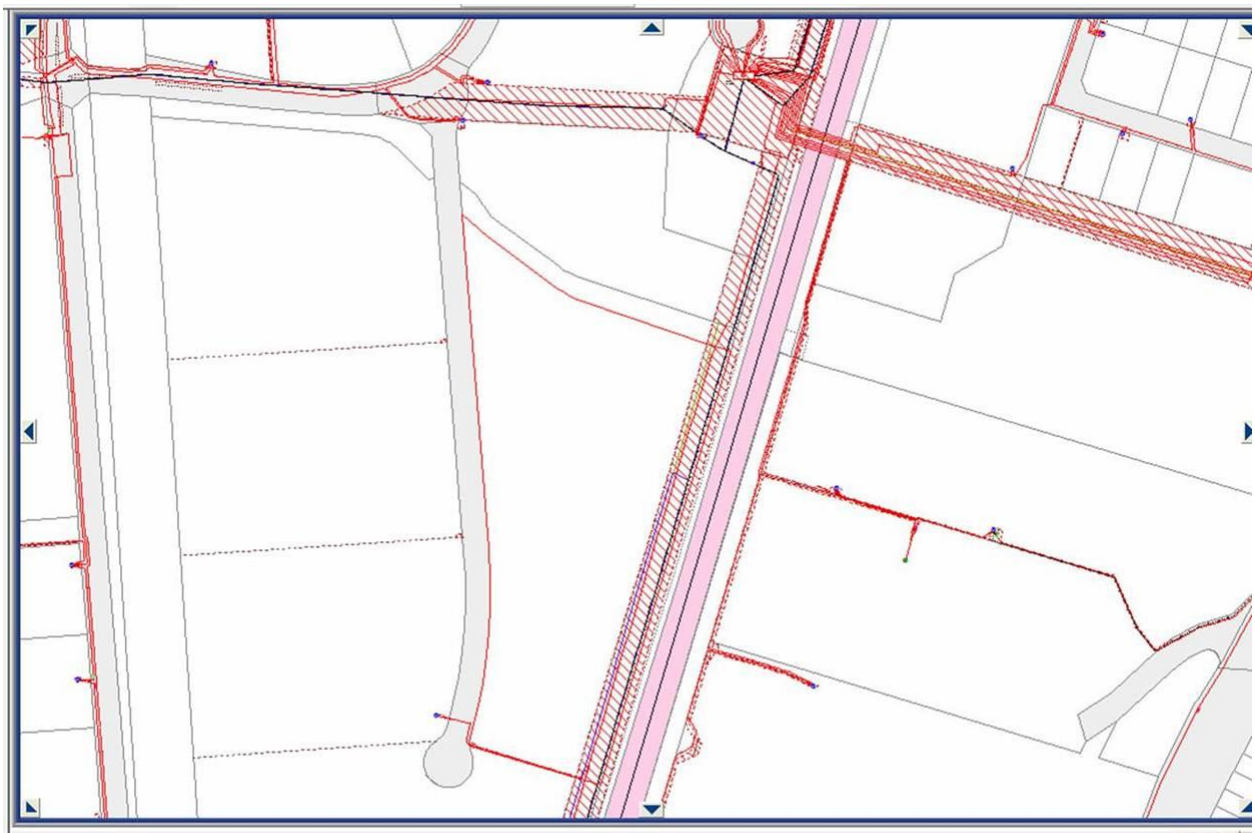
Endeavour Energy



G3E_FID	Feature Name	Component Name	G3E_CID	G3E_ID	LOT	SECTION	DP
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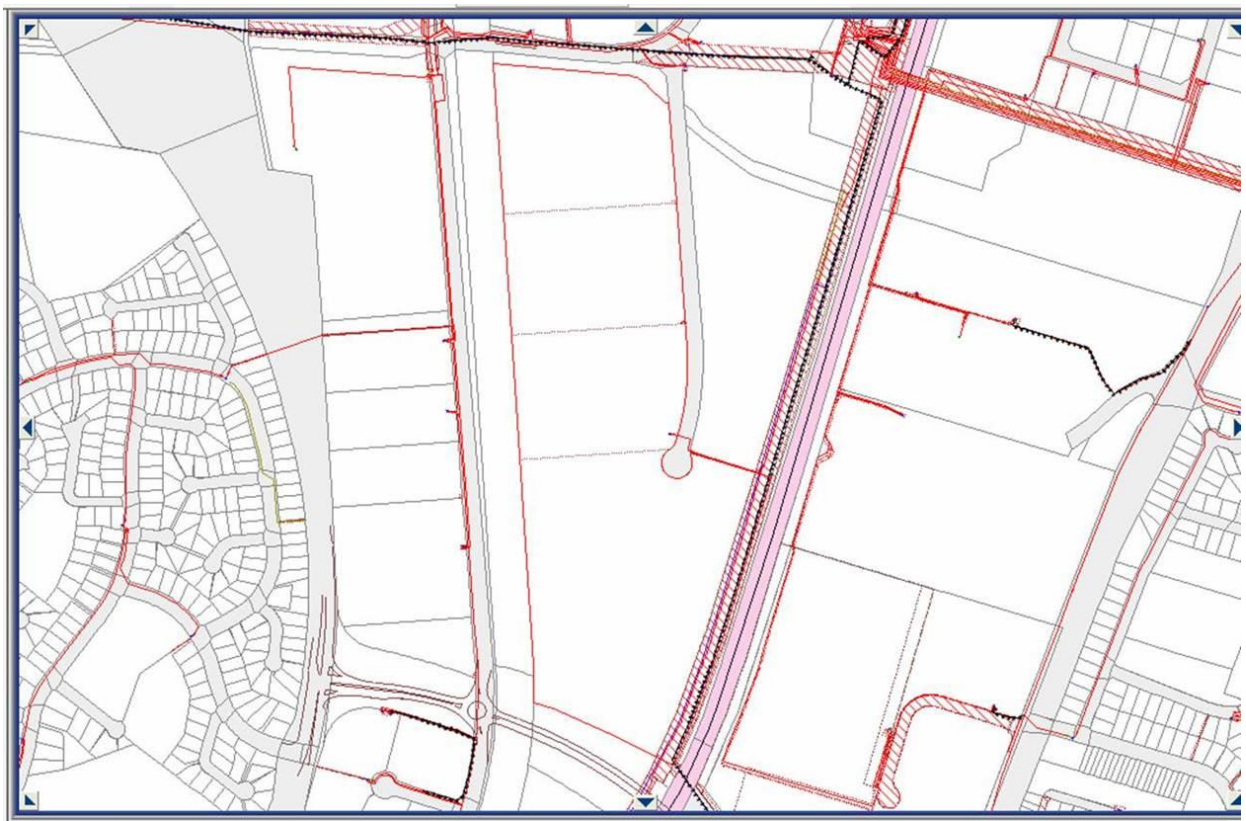

G3E_FID	Feature Name	Component Name	G3E_CID	G3E_ID	LOT	SECTION	DP
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