



Shelmerdines
Consulting Engineers

08 October 2020
DT: 7308

Woolworths Group
1 Woolworths Way
BELLA VISTA NSW 2153

Attention: Mr Thomas Stock

Dear Sir

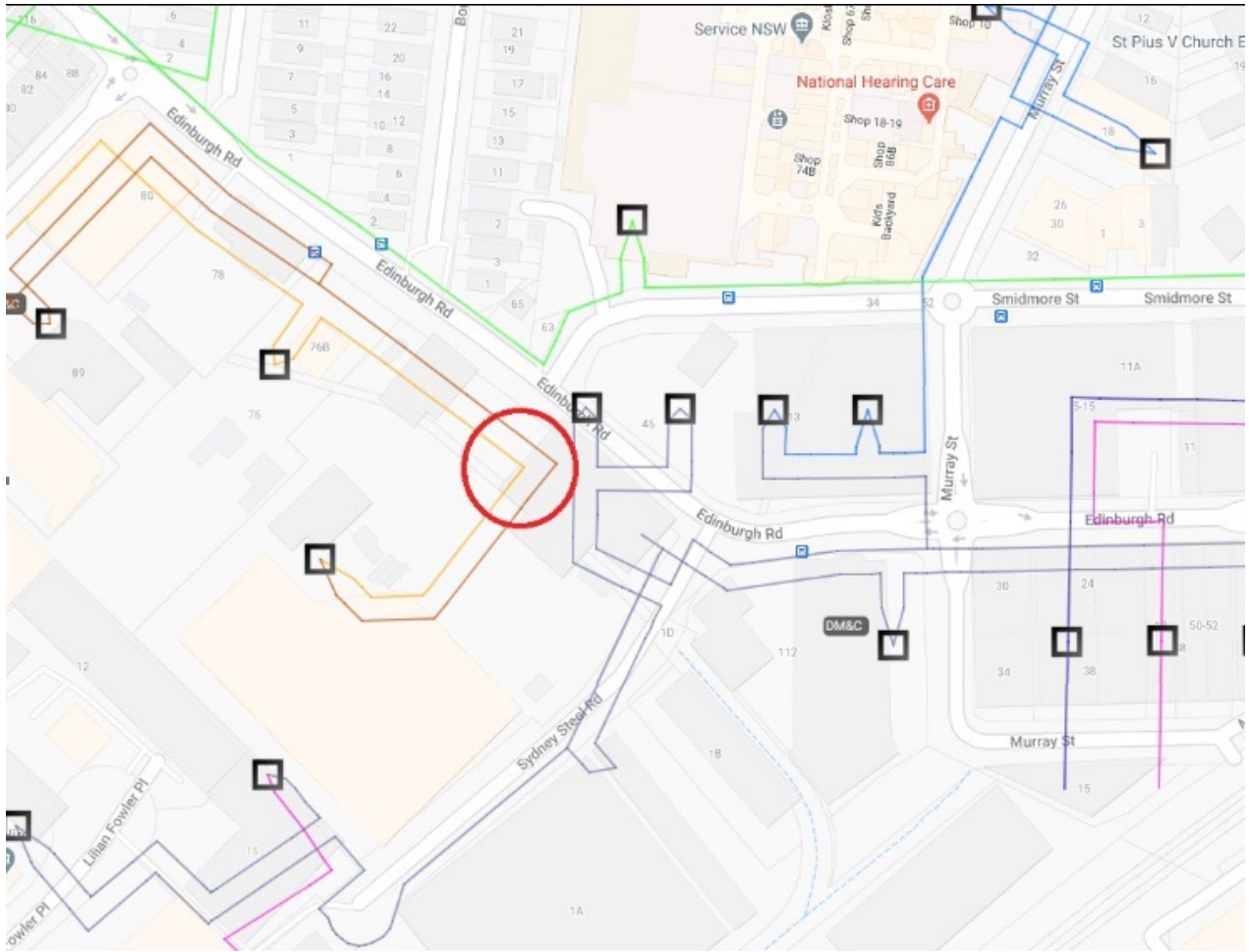
**74 EDINBURGH ROAD, MARRICKVILLE
PROPOSED WAREHOUSE FACILITY
ELECTRICAL SERVICES**

Shelmerdines Consulting Engineers have carried out a maximum demand assessment of the proposed warehouse facility for Woolworths Group to be located in Marrickville. The building will incorporate automations systems and refrigeration systems, of which the maximum demand calculation includes. The maximum demand has been calculated as 6,000kVA or 8,500Amps.

A Preliminary Enquiry (Copy Attached) was submitted to Ausgrid on the 6th August 2020. A formal response was received from Ausgrid on the 2nd October. A copy of the response is appended to this letter.

Ausgrid have advised that the site will need to have all existing transformers and high voltage infrastructure decommissioned and removed from the site prior to commencement of construction. New chamber type substations will be required to be established on the site. The chambers shall contain four (4) off 1,500kVA transformers to support the 6,000kVA load.

Additionally there is existing capacity in the nearby 11kV high voltage network within the Marrickville and St Peters zone substations to support the proposed load. The connection point of the 11kV high voltage would be to the north of the site in Edinburgh Road as per the diagram below. It is proposed to provide a cross connection in the 11kV network to the St Peters zone to provide supply reliability. Therefore new dedicated high voltage feeders are not required to be installed to the Marrickville Zone Substation.



Extract from the Ausgrid GIS System – Red Circle Indicates the Connection Point for the Development

We trust the above is satisfactory. Should you require any additional information, please contact the undersigned.

Yours faithfully
SHELMERDINES

David Taylor

 Preliminary Enquiry

LOCATION

Property Name

Warehouse Facility

Property Type

Building

Land Title Type

Torrens

Street Number/RMB

74

Nearest Cross Street

Sydney Steel Road

Location Address

Edinburgh Road, Marrickville, 2204

Land Zoning

Urban

APPLICANT

Applicant Type

Asp On Behalf Of A Retail Customer Or Real Estate Developer

Full Name

Mr David Taylor

Email Address

dtaylor@shelmerdines.com.au

ABN/ACN

40003331879

Company Name

Shelmerdines

Street Number/RMB

55

Po Box/Locked Bag

1345

Nearest Cross Street

Pole Lane

Applicant Address

Hume Street Crows Nest 2065

Phone Number

0294363021

Other Number

0419615351

Asp Number

2606

Asp Level

Level 3

CUSTOMER

Customer Type

Real Estate Developer

Full Name

Mr Thomas Stock
[Email Address](#)
tstock@woolworths.com.au
[Phone Number](#)
0404077930
[Company Name](#)
Woolworths

ENQUIRY

Type

I Have An Enquiry Related To A New Or Altered Residential Or Small Commercial/Industrial Load Connection (Up To 10mva) That I Cannot Answer After Reviewing Your Website.

Your Question

Woolworths Are Proposing To Develop A New Warehouse Facility Building For Distributing Shopping Into Small Trucks For The Home Shopping Network. The Building Will Include Automation, Refrigeration, Offices And Hardstands To Support The Home Shopping Output. Also There Is General Warehouses To Be Leased Out On Ground Floor. Our Calculated Maximum Demand Is 6.0mva. Can This Load Be Supported From The Existing Network And Will There Be The Need For Any Upgrade To Hv Feeders?

Supporting documents

File name	Ausgrid filename reference	Size
7308 Max Demand CFC Marrickville.xlsx	SupportingAttachmentFilePath_1	0.055 MB
10437_DA000-Combined.pdf	SupportingAttachmentFilePath_2	16.52 MB

DECLARATION

Applicant Name

Mr David Taylor

Application Date

06-Aug-2020

Price Description

Preliminary Enquiry.

Total Price

Price Including GST

AUD \$443.10

AUD \$443.10

Terms and Conditions:

In submitting this preliminary enquiry you are engaging Ausgrid to provide you with a written response. Once submitted the fee charged is consumed. Ausgrid will aim to provide you with a written response within 10 business days. If additional work and/or fees are required, we will contact you to advise prior to providing the response.

*I acknowledge the terms & conditions.



PI2020_0876 – Warehouse Facility 74 Edinburgh Rd, Marrickville
Preliminary Investigation of Existing Supply Capacity

To: Tyson Geer

From: Andrew Tiddy: Asset Investment Planning - Transmission

cc: Matthew Jolliffe

Date: 1st October 2020

Background

Ausgrid have been requested to determine whether there is sufficient infrastructure in place to allow for the connection of a new Warehouse facility at 74 Edinburgh Road Marrickville. The load requirement based on the preliminary enquiry is 6MVA. The information contained in this response relates to the 11kV electrical supply capacity in the general area inclusive of planned works as of October 2020.

11kV feeder Supply Capacity

Presently the area is supplied by several feeders from Marrickville and St Peters zone substations. There is sufficient capacity on existing Marrickville zone feeders Pa13 and Pa14 for the new connection which would also likely involve creating a connection to St Peters zone feeder Pa17 to provide adequate security of supply.

The final details of the connection requirements will be determined after a formal application is received from the applicant, however for information a potential connection arrangement is provided in the latter geographic and system diagram.

The following provides direct answers to the questions raised in the preliminary enquiry.

Q: Woolworths Are Proposing To Develop A New Warehouse Facility Building For Distributing Shopping Into Small Trucks For The Home Shopping Network. The Building Will Include Automation, Refrigeration, Offices And Hardstands To Support The Home Shopping Output. Also There Is General Warehouses To Be Leased Out On Ground Floor. Our Calculated Maximum Demand Is 6.0mva. Can This Load Be Supported From The Existing Network And Will There Be The Need For Any Upgrade To Hv Feeders?

A1: This load can be supported from existing feeders, with the load split evenly across the existing Marrickville Pa13 and Pa14 feeders. It is also expected that a form

a tie to the existing St Peters Pa17 feeder will be required to provide adequate network security. Based on known network activities there is no expected requirement to upgrade the 11kV network capacity for this connection.

Planning Considerations

There are many influencing factors that could affect the available supply capacity including but not limited to other developments, future network augmentation, load growth and policy changes. This preliminary response is based on information available at the time and may change into the future. It is expected that a connection application will be submitted by the applicant. Upon receipt of the connection application a more detailed planning study will be undertaken to enable a Design Information Package to be produced outlining the connection requirements. The information in this response is for use by Network Operations to enable a response to the preliminary enquiry by the applicant.

Network state and assumptions:

Analysis of this need was conducted on 13/08/19 using the Surry Hills Development model located in J:\models\development V15\marrickville(002) - Development 20180725

This model uses Summer 2018/19 and Winter 2019 season loads diversified to the panel with 0% Summer and 0% Winter load growth over 6 years and no weather correction. This model assumes that the following projects are complete and taking full requested load:

*SC11867 - Establish S.78583 Edinburgh Murray No.1, S.78584 Edinburgh Smidmore No.1, S.78583 Edinburgh Smidmore No.2 and Decommission S.1752 Murray Edinburgh, 13 Edinburgh Rd, Marrickville

*SC08540 - Establishment of S.77445 Edinburgh Bourne, 76 Edinburgh Rd, Marrickville

*SJ00262 - ARA LT 11kV Darlinghurst - Campbell St

Reference Documents:

NCAR/PDS received 15/09/2020

