Preliminary Enquiry – Feasibility Letter

19/06/24 Webform ref: 1919054

INTEGRATED GROUP SERVICES PTY LTD
Attention: NIMA KHERADHOOSH
Via email: nima.kheradhoosh@igs.com.au

Premises address: **120-122 MONA VALE ROAD, WARRIEWOOD**

Ausgrid AE Reference: **700009230**

Dear NIMA,

I refer to your preliminary enquiry regarding the electricity connection at the above address and provide the following information.

- ❑ IGS on behalf of the developer prepared an electrical maximum demand estimate for the proposed subdivision of two lots into 64 plus a community lot. Based on the maximum demand estimates provided, it is assumed that out of the 64 lots, 60 of the lots will be low-density residential lots. The four remaining lots that require higher maximum demand are allowed for medium-density residential lots. The total maximum demand estimated by IGS is in the order of 1873kVA.
- ❑ Ausgrid has carried out a planning assessment to investigate the feasibility of connecting the proposed 1873kVA to Ausgrid's existing 11kV network. The only feeder available to connect the proposed load is located at Ausgrid pole TH-309. To provide adequate supply to this subdivision, the developer shall install kiosk substation(s) and extend 11kV feeder from Ausgrid pole TH-309, throughout the proposed subdivision.
- ❑ In accordance with Ausgrid ES1 "Premises Connection Requirements" Clause 3.1.3, Ausgrid will provide one point of supply to the development, subject to the limitation of voltage drop and the maximum size of the supply available.
- ❑ Alterations to the existing Ausgrid network (ie network extension) are Contestable and require the customer to engage accredited service providers to undertake the design and construction of the required works.
- ❑ Accordingly, based on the information provided to Ausgrid by IGS, it can be confirmed that the proposed network extension works to supply proposed development is feasible. Further details of Ausgrid's planning assessment can be found in the attachment.

It should be noted that the above advise is based on Ausgrid's polices and network status as of today and are subject to change.

Connections to the Ausgrid network are governed by a set of laws and rules referred to as the National Energy Customer Framework (NECF). Included in the NECF is the National Electricity Rules (NER). Under these rules, a binding contract may only be formed after a connection application is lodged and Ausgrid has made a connection offer in response to that application. Accordingly, to make arrangements for the electricity connection of the development to the Ausgrid network you should lodge a completed connection application.

Should you require any further information please contact me.

Yours sincerely,

Shanming Zhou

Ausgrid

Direct Telephone Number: 0294778357
Email: SZhou@ausgrid.com.au
Enclosures: Preliminary Enquiry – Asset Investment Planning Assessment – PI-2024_0623

Preliminary Enquiry – Asset Investment Planning Assessment

To Shanming Zhou

From Anthony Curran

Date 19th July 2024

Subject PI-2024_0623 - Preliminary Enquiry – 63 Lot subdivision, 120-122 Mona Vale Rd, Warriewood

Background

Asset Investment Planning (AIP) has received a preliminary application for the available capacity and required upstream augmentation (if required) for a proposed connection of 63 lot subdivision at the premises of 120-122 Mona Vale Rd, Warriewood.

Proposed Load

The total anticipated load requirement, as supplied by the customer's Maximum Demand information, is estimated to be approximately 2MVA or 106A at 11kV (2700 ALV). The proposed plan is shown in Figure 1.

11kV Network Existing Supply Considerations

The only feeder available to the proposed subdivision is Mona Vale PA14, a Short Rural feeder of approximately 18km in length, with the nearest supply point being Pole TH-309 (11kV UGOH), as shown in Figure 2.

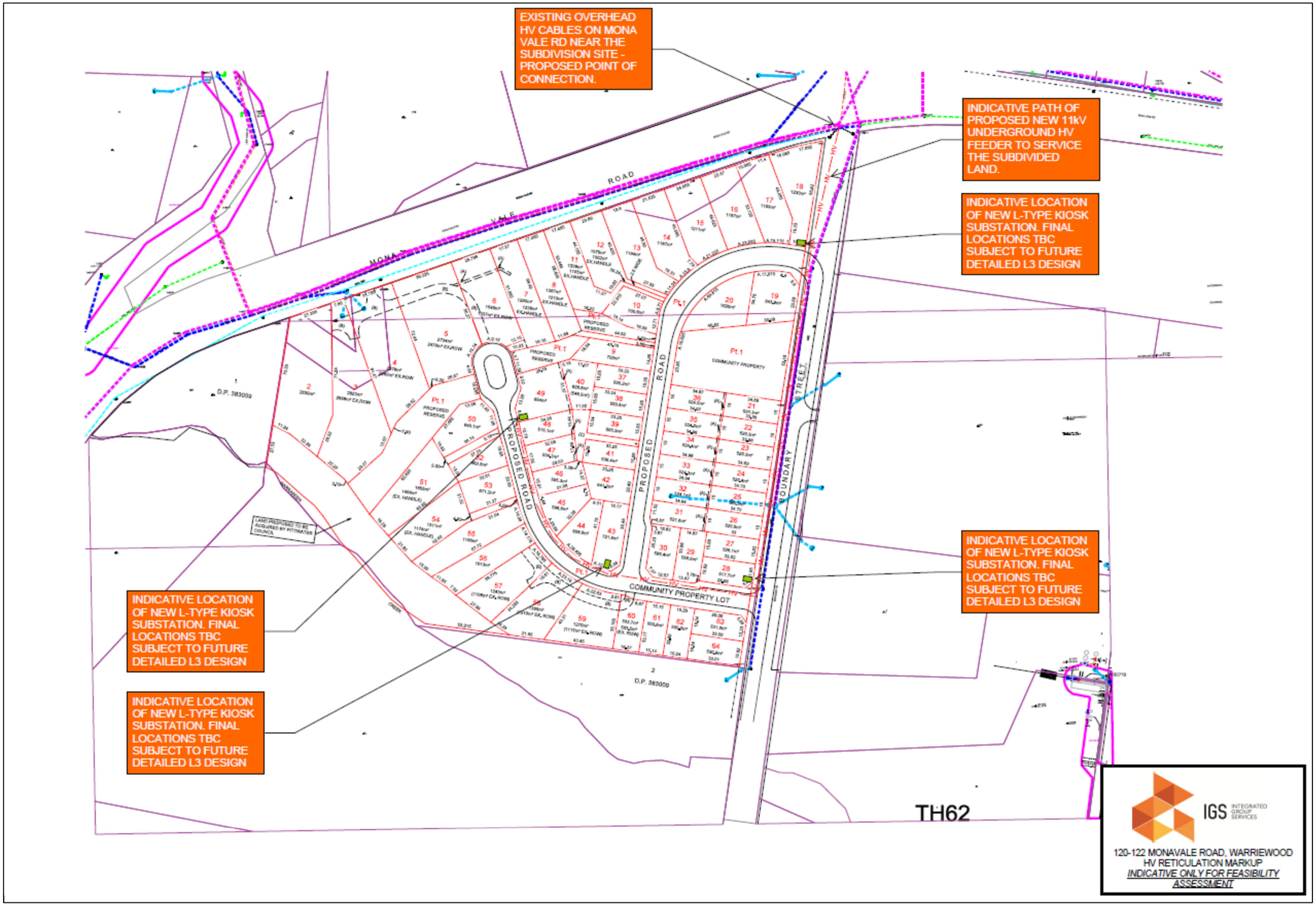

Figure 1 – Proposed Subdivision

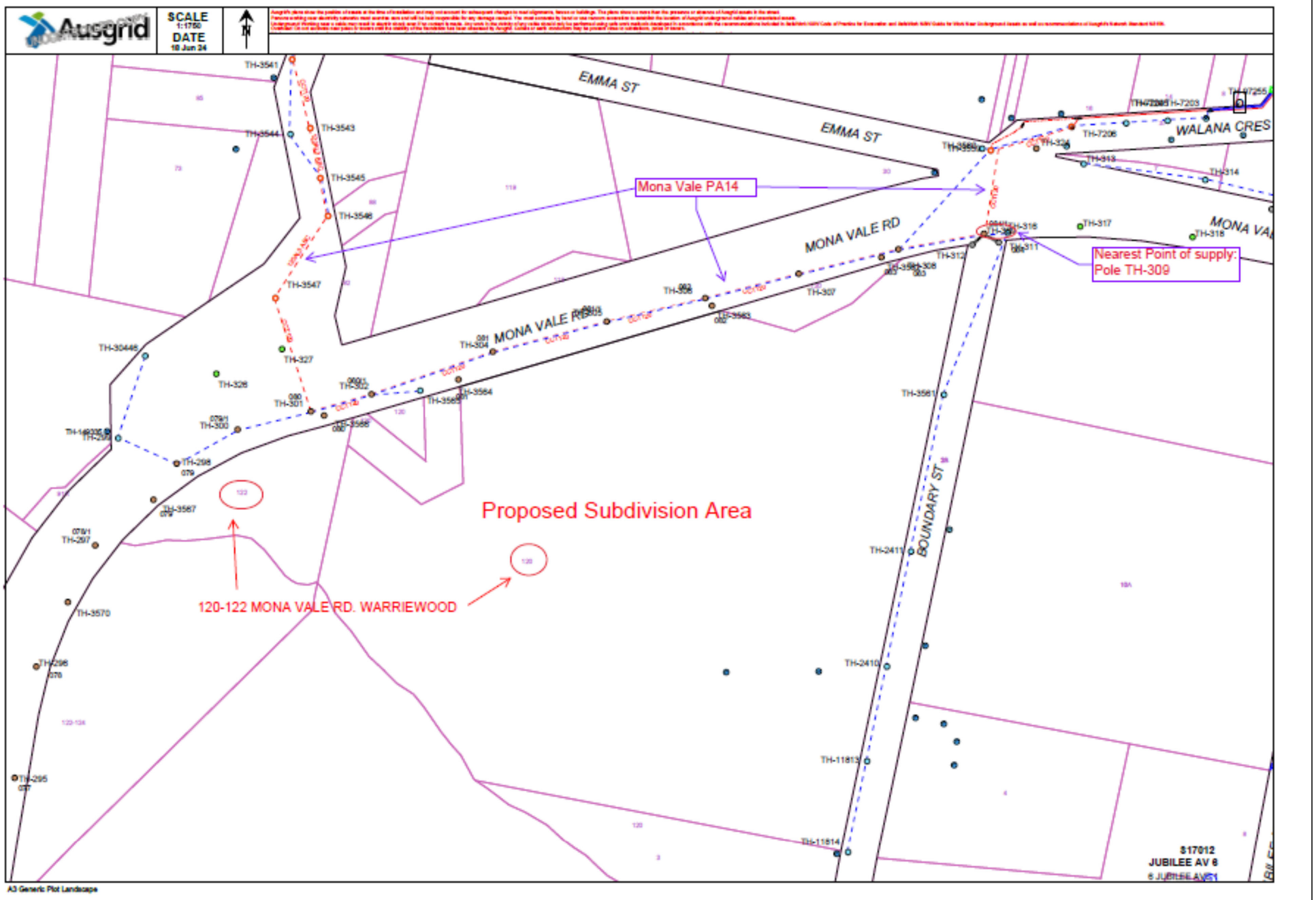

Fig.2 – Proposed Subdivision Area Existing Supply

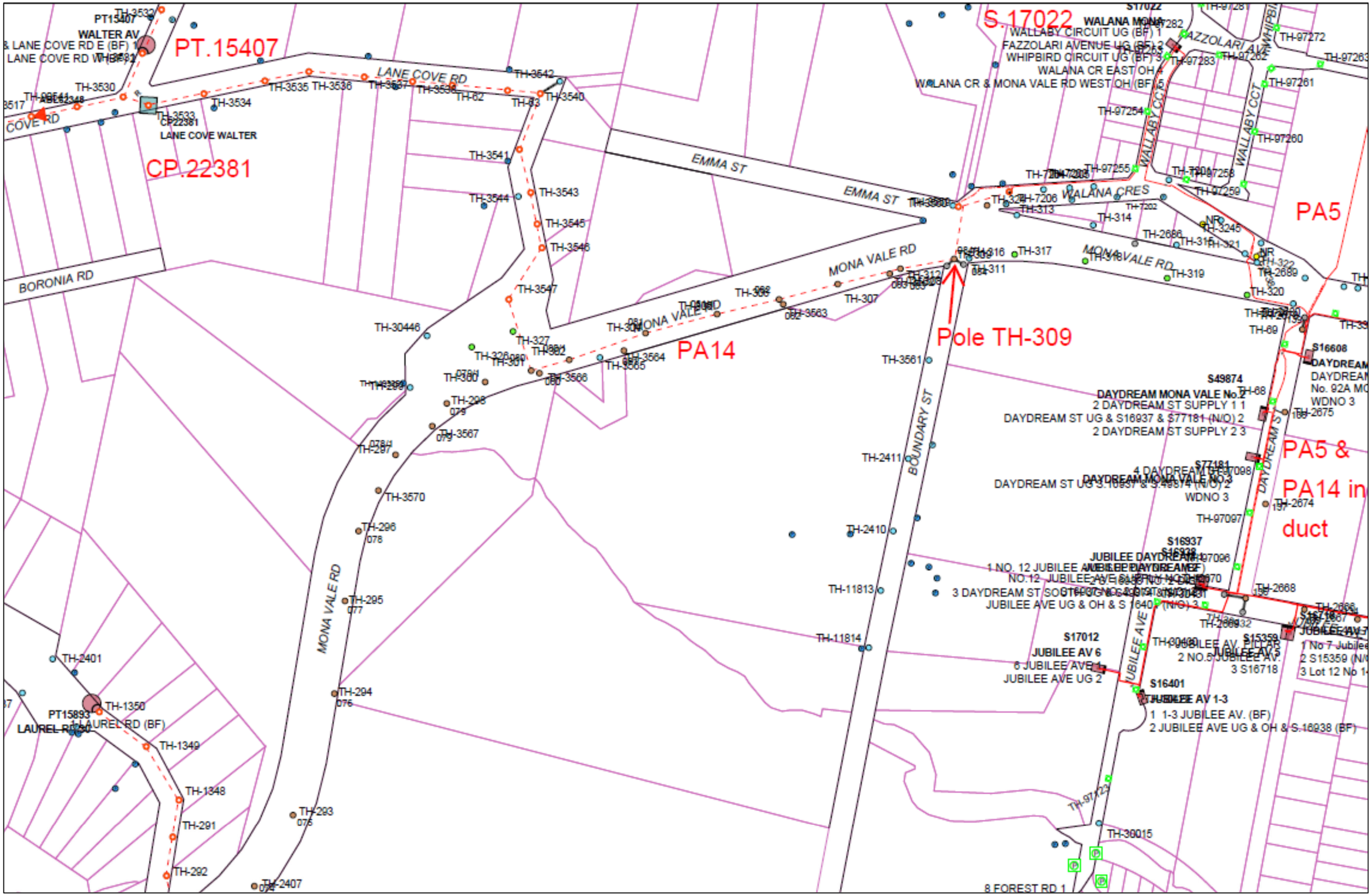

Fig.3 – Existing Mona Vale PA14 HV Geo

11kV Network Supply Connection

The following outlines, but is not limited to, the scope of works involved as per any network upgrade requirements for an N only connection of the proposed 63 lots:

- The existing network has the available capacity to supply the proposed subdivision.
- It is expected new 400kVA Kiosks with 3 to 4, 400ALV UG distributors to be installed with the appropriate HV and LV conductors to facilitate connection.
- Where necessary – Pole replacements to facilitate UGOH connections for looping in the proposed kiosks from supply point TH-309.
- If the load & number of subdivision lots change from the assumptions made in this preliminary response, then a new assessment will be required.

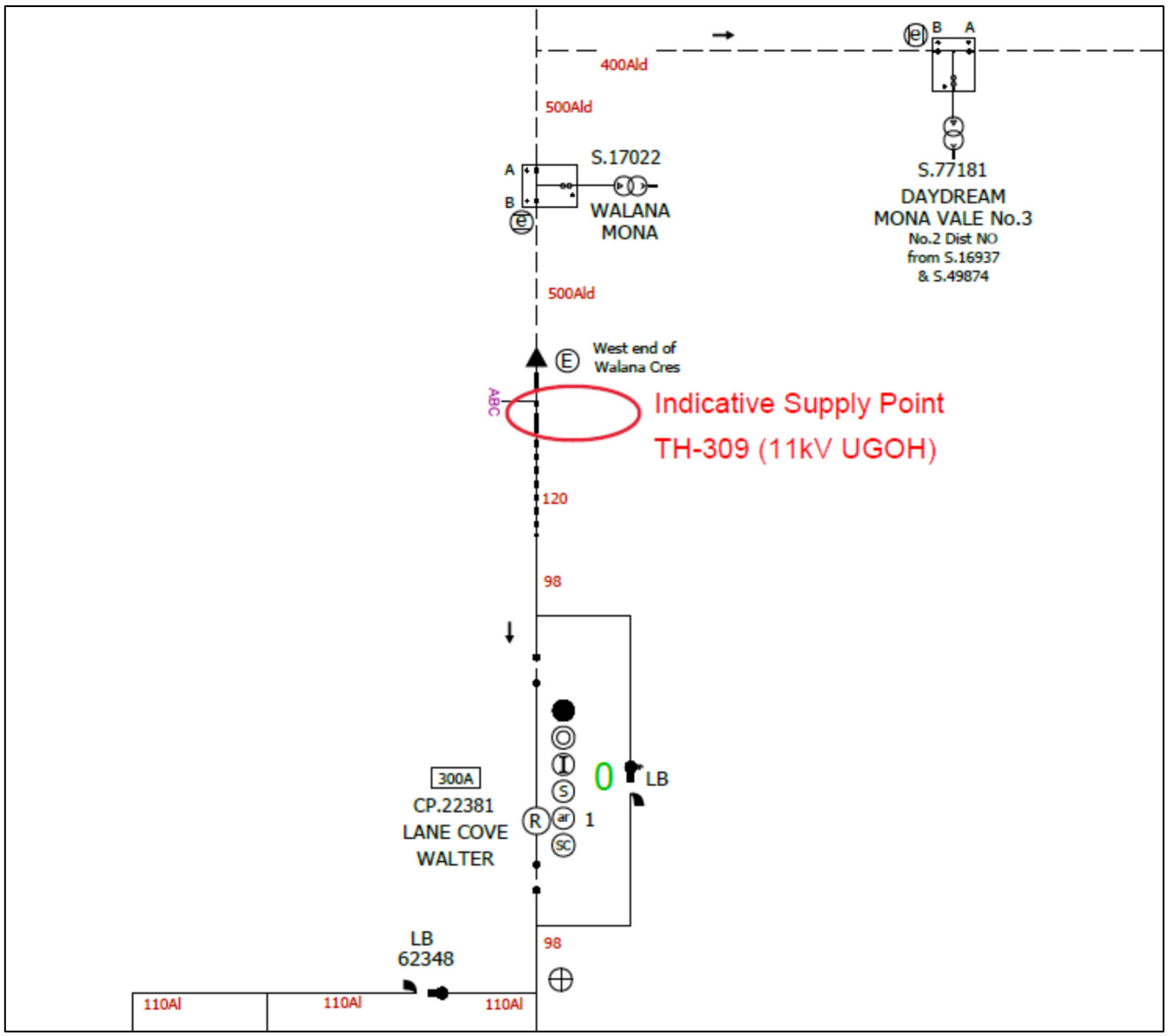

Fig.4 – Existing System Diag. Mona Vale PA14

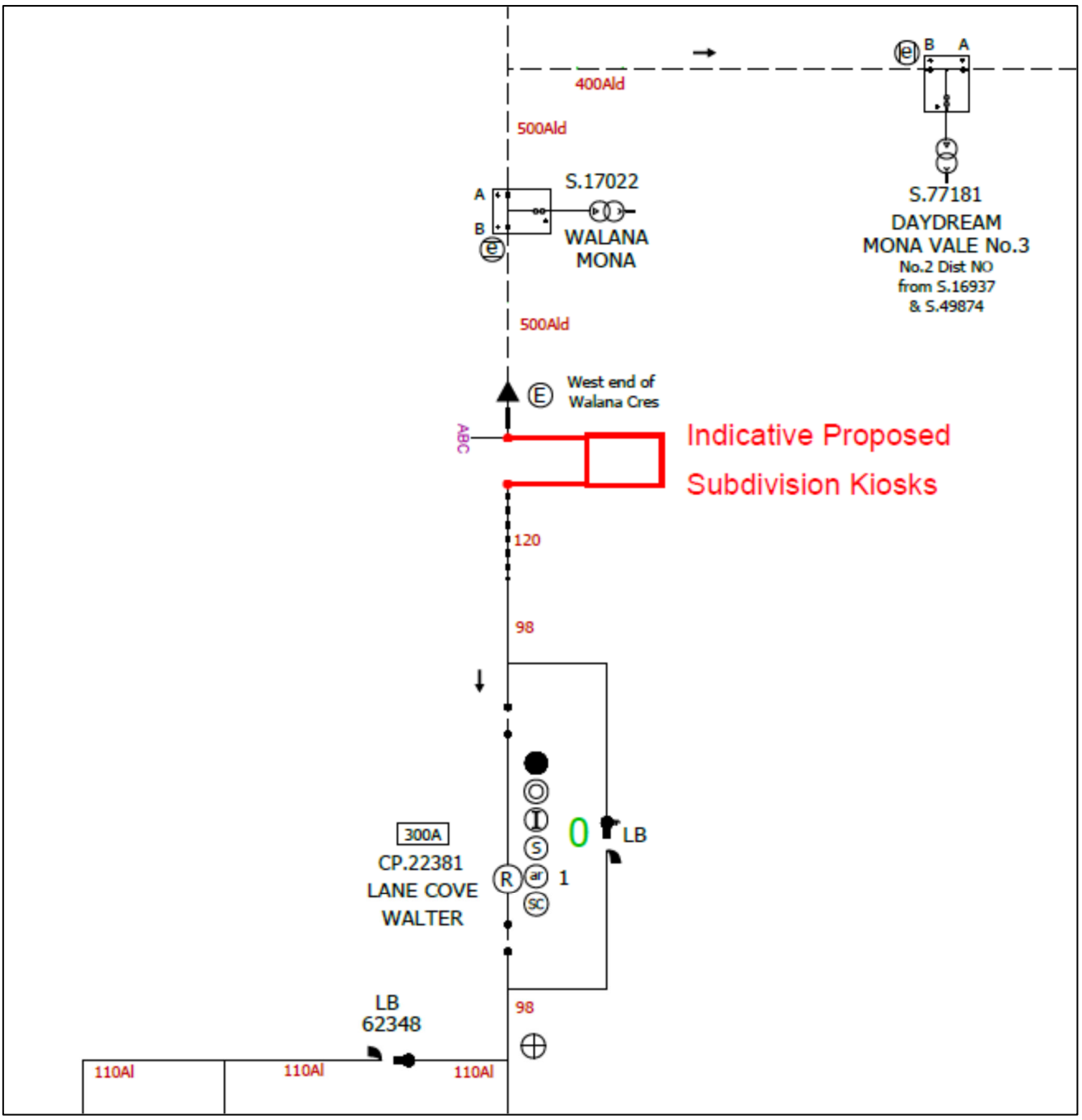

Fig.5 – Proposed Subdivision System Diagram Mona Vale PA14

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 Contestability to enable a response to the preliminary enquiry by the applicant.

Electrical Maximum Demand Calculation
120-122 Mona Vale Road, Warriewood
Subdivision of Lots 3, 4 & 5 D.P. 124602

Job No: EN-N24-021

IGS INTEGRATED GROUP SERVICES

Spaces	Area (m2)	VA/m2	VA	I (A)	
Lot 2	2630	40	105200	151.8	
Lot 3	2823	40	112920	162.9	
Lot 4	2548	40	101920	147.1	
Lot 5	2734	40	109360	157.8	
Lot 6	1540	30	46200	66.7	
Lot 7	1290	30	38700	55.8	
Lot 8	1387	30	41610	60.0	
Lot 9	700	20	14000	20.2	
Lot 10	701	20	14020	20.2	
Lot 11	1209	30	36270	52.3	
Lot 12	1075	30	32250	46.5	
Lot 13	1194	30	35820	51.7	
Lot 14	1187	30	35610	51.4	
Lot 15	1211	30	36330	52.4	
Lot 16	1187	30	35610	51.4	
Lot 17	1163	30	34890	50.3	
Lot 18	1230	30	36900	53.2	
Lot 19	944	30	28320	40.9	
Lot 20	1020	30	30600	44.2	
Lot 21	521	20	10420	15.0	
Lot 22	521	20	10420	15.0	
Lot 23	521	20	10420	15.0	
Lot 24	521	20	10420	15.0	
Lot 25	521	20	10420	15.0	
Lot 26	521	20	10420	15.0	
Lot 27	527	20	10540	15.2	
Lot 28	518	20	10360	14.9	
Lot 29	559	20	11180	16.1	
Lot 30	586	20	11720	16.9	
Lot 31	522	20	10440	15.1	
Lot 32	525	20	10500	15.2	
Lot 33	525	20	10500	15.2	
Lot 34	525	20	10500	15.2	
Lot 35	525	20	10500	15.2	
Lot 36	525	20	10500	15.2	
Lot 37	501	20	10020	14.5	
Lot 38	501	20	10020	14.5	
Lot 39	501	20	10020	14.5	
Lot 40	929	30	27870	40.2	
Lot 41	501	20	10020	14.5	
Lot 42	642	20	12840	18.5	
Lot 43	722	20	14440	20.8	
Lot 44	659	20	13180	19.0	
Lot 45	597	20	11940	17.2	
Lot 46	506	20	10120	14.6	
Lot 47	535	20	10700	15.4	
Lot 48	516	20	10320	14.9	
Lot 49	954	30	28620	41.3	
Lot 50	846	20	16920	24.4	
Lot 51	1655	30	49650	71.6	
Lot 52	563	20	11260	16.2	
Lot 53	672	20	13440	19.4	
Lot 54	1311	30	39330	56.8	
Lot 55	1196	30	35880	51.8	
Lot 56	1013	30	30390	43.9	
Lot 57	1243	30	37290	53.8	
Lot 58	1389	30	41670	60.1	
Lot 59	1270	30	38100	55.0	
Lot 60	554	20	11080	16.0	
Lot 61	501	20	10020	14.5	
Lot 62	500	20	10000	14.4	
Lot 63	531	20	10620	15.3	
Lot 64	531	20	10620	15.3	
Reserve(s), Community and Roads	16510	20	330200	476.5	
Total (without ADMD)					**2846.1**
Total (with ADMD after 95% Diversity)					**2703.8**
kVA				**kVA**	**1873.3**