



## Activity schedule

Date	Revision	Issue	Initial
04.10.2015	A	Final Issue	JH
10.11.2015	B	Final Issue with Amendments	JH
04.12.2015	C	Final Issue with Amendments	JH
10.02.2016	D	Final Issue with Amendments	JH
06.03.2017	F	Masterplan Amendment	PG
20.03.2017	G	Masterplan Amendment	PG
29.03.2017	H	Masterplan Amendment	PG

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# 1 INTRODUCTION

Northrop Consulting Engineers have been engaged by PAYCE to prepare a services assessment for a proposed mixed use development located at 38 – 42, 44 & 44A Wharf Road, Melrose Park. This report has been prepared in support of a planning approval to the NSW Department of Planning for the proposed development.

This report has been prepared to outline all of the existing services and infrastructure currently servicing the site. This report will describe the size of the services servicing the site, outline easement constraints and assess capacity of the services under existing conditions. A “Dial Before You Dig” (DBYD) submission had been submitted and plans read in conjunction with survey plans prepared by LTS Lockley Surveyors to undertake the services assessment.

This report will identify constraints with the existing infrastructure to service the proposed development and provide recommendations on necessary augmentation works required in order to secure a supply of services to service the proposed development.

## 1.1 Limitations

Due care and skill has been exercised in the preparation of this report.

No responsibility or liability to any third party is accepted for any loss or damage arising out of the use of this report by any third party. Any third party wishing to act upon any material contained in this report should first contact Northrop for detailed advice which will take into account that party's particular requirements.

## 2 SITE DESCRIPTION

### 2.1 Existing Site Conditions

The site is currently developed and in use for light industrial and commercial purposes. The site covers an area of approximately 25 Ha. The site is surrounded by low density residential housing to the east and west, Victoria Road to the north and existing light industrial and Melrose Park Public School to the south (refer to **Figure 1**).



**Figure 1 – Site Locality Plan**

Based on aerial photography, the site appears to be approximately 70 - 80% impervious predominately comprising of access roads, on-grade car parking and commercial buildings. Levels across the site range from RL 10.2 – 31.6 m AHD. The site falls from the north-west to the south-east. The topography of the site consists of terraced platforms characterised by steep embankments between gently sloping platforms with grades ranging from 2-6%. Fall across the site generally fall uniformly across the site. For more information, refer to the detailed survey attached in **Appendix A**.

There are three defined overland flow paths that traverse the site. The first overland flow runs along the rear of Bartlett Park via a grassed channel, flowing in a west to east direction towards Wharf Road. The second overland flow runs through the middle of the site in a west-east direction towards Wharf Road. The third overland flow path is located along the western boundary of the site and conveys overland flows to Hope Street. The latter two overland flow paths have been man made generally comprising of the main access roads into and around the site.

The site is currently serviced by existing stormwater, power, water and sewer infrastructure with services reticulation being provided from major services trenches along Victoria Road, Wharf Road and Hope street. In addition, to the services reticulation across the site, there are major services easements which traverse through the site.

## 2.2 Proposed Site Conditions

The proposed development will include involve the demolition of all existing buildings within the site and the construction of a new road network, open space, public amenities, residential & commercial buildings and associated services and infrastructure (refer to **Figure 2**). For more information, refer to the masterplan prepared by AJ+C.

**Figure 2 – Proposed Melrose Park Masterplan**

The proposed masterplan will comprise of the following:

<b>Site Area</b>	<b>249,982sqm</b>
<b>Floor Space Ratio (FSR)</b>	<b>1.85</b>
<b>Gross Floor Area (GFA)</b>	<b>462,467sqm</b>
Commercial	15,000sqm
Retail	10,500sqm
Community	3,000sqm
Childcare	1,500sqm
<b>Total Non-Residential</b>	<b>30,000sqm</b>
Residential	432,467sqm
Number of Units	4,900
Affordable Housing (Min)	150 units
<b>Total Units</b>	<b>5,050</b>

The proposed non-residential uses will be provided as follows:

Within the Town Centre:

- 15,000sqm GFA commercial office
- 10,500sqm GFA retail
- 3,000sqm GFA community multi-purpose facility
- 1,500sqm GFA childcare centre (one centre)
- **Total Town Centre – 27,500sqm GFA**

Throughout the balance of the site (excluding the VRS):

- 500sqm GFA retail including cafés, small convenience shops
- 1,000sqm GFA community
  - 500sqm GFA on the Central Park for an Amphitheatre
  - 500sqm elsewhere
- 1,000sqm GFA childcare centre (two centres)
- **Total Outside the Town Centre – 2,500sqm GFA**

## 3 SERVICES

### 3.1 Sewer

Internally, there is an existing 225 mm sewer currently traversing and servicing 38-42 Wharf Road. This main will have to be removed as part of the proposed development. In addition there is an existing 150 mm sewer line that services No. 15 Hughes Avenue. The 150 mm main traverses along the western boundary of the site and has an easement covenant on the site. This sewer main will have to be maintained as part of the proposed development.

There is an existing 900 mm sewer main located through the middle of the site. The 900 mm sewer main is a significant portion of SydneyWater's infrastructure. The main may be diverted around the site, or concrete encased to make areas of the site available for development. Otherwise, any future buildings cannot be constructed over the main and any construction adjacent to the sewer main will have to be pier to minimise any potential impacts to SydneyWater's infrastructure.

Externally, there is an existing 150 mm sewer main located along the northern end of Wharf Road and a 225 mm sewer main located along Hope Street

Initial assessment indicates that the sewer main in Wharf Road and Hope Street may need to be upgraded. Final assessment will be subject to detailed design, number of apartments, an assessment of stormwater and grey water harvesting strategies and a section 73 application to Sydney Water.

The location of all existing services within and surrounding the site are presented in **Figure 3**.



**Figure 3 – Location of Sewer Easements**

For more information, refer to the attached SydneyWater Infrastructure plan in **Appendix B**.

### 3.2 Potable Water

The site is currently serviced by SydneyWater. The site is surrounded by existing potable water mains along Victoria Road, Hope Street and Wharf Road.

Major water trunk mains existing along Hope Street and include dual 1200 mm water mains, a 900 mm and 110 mm water main. Major trunk mains have also been identified along Victoria Road. These mains include a 200 mm and 500 mm diameter on the northern and southern side of Victoria Road respectively.

In addition to the above major trunk mains, there is an existing 200 mm water main located in Wharf Road. It is likely that this main may need to be upgraded to service the proposed development. The 200 mm main would likely be replaced with a 300 mm main, via an extension from Victoria Road. This would be subject to detailed design, a pressure and flow application and a Section 73 application with Sydney Water and assessment of stormwater and grey water harvesting strategies for the proposed site.

The location of all existing services within and surrounding the site are presented in **Figure 4**.



**Figure 4 – Location of Potable Mains**

There are no known potable water easements located across the site. Similarly, there are no known boreholes/water license associated with the site.

As part of the proposed development, potable water mains will be reticulated along the road network to ensure a secure water connection to all future buildings.

For more information, refer to the attached Sydney Water Infrastructure plan in **Appendix B**.

### 3.3 Gas

Existing gas infrastructure surrounding both along the southern and western extents of the development sites appears to be sufficient to supply gas to the proposed development. Final assessment will be made based upon a Jemena application.

No other gas services infrastructure or easements have been identified within the site.

For more information, refer to the attached Jemena Infrastructure plan in **Appendix B**.

### 3.4 Electrical

The site currently involves nine substations (Substation no. 24227, 17749, 21957, 17783 26764, 24558, 24353, 21835 & 17782) owned by Endeavour Energy. Due to the nature of the proposed works, all the above mentioned substations and its associated easement will be removed and extinguished to make way for the new developments (refer to **Figure 5**).



**Figure 5 – Location of Power Easements**

A 132kV overhead transmission line exists with dedicated electrical easement along the western boundary parallel to Hughes Avenue. The overhead transmission line is managed and owned by Ausgrid. All future buildings will have to be constructed no close than 15 m of the overhead transmission line (refer to **Figure 6**).

Provided, that future buildings are maintained outside of the easement of the overhead power lines, electromagnetic fields generated from the powerlines will not have an effect on the proposed development. It should be noted that the area below the overhead transmission lines can be used for the construction of roads and public open space.



**Figure 6 – Location of Overhead Transmission Line Easements**

Based on the predicted scale of the development a maximum demand of 24.8 MVA will be required. We estimate that approximately twenty 1000 to 1,500 kVA substations depending on size of substations incorporated as part of the new development.

A number of connection points are available for the proposed development, but the most feasible option would be to connect to the nearest Rydalmere Zone Substation present along 5-7 Wattle Street, Rydalmere, approximately 3.5 km away. The Zone Substation should have sufficient capacity to provide power to the proposed site, however this is subject to staging and timing of the development.

As part of the proposed development, high and low voltage underground services trench with PVC conduits will be provided along the proposed road network to ensure service connection to future buildings and street lighting across the site.

### 3.5 Telecommunications

The site is currently serviced for telecommunications. DBYD plans indicate that the site is currently serviced by Telstra and Optus. Services are reticulated through the site via Wharf Road and Hope Street through private communication cables.

No optical fiber cables have been identified across the site.

A telecommunications mobile tower is located in the south west corner of the site. As the tower owned by a third party, there is an easement associated with the tower and incoming conduits (refer to **Figure 7**).



**Figure 7 – Location of Telecommunications Easement**

As part of the proposed development, all private communication conduits and reticulation lines through the site will be made redundant and abandoned. New communication trenches will be provided as part of the road network to reticulate new communications cables through the proposed development to ensure a connection point for all future buildings.

## 4 CONCLUSION

Northrop Consulting Engineers have been engaged by PAYCE to prepare a services assessment for a proposed mixed use development located at 38 – 42, 44 & 44A Wharf Road, Melrose Park. Based on a review of the existing site conditions, the scale of the proposed development and relevant engineering requirements we are satisfied that the site can be appropriately serviced to support the proposed development.

We trust the information provided in this letter provides an appreciation of the potential servicing opportunities and constraints available across the site. If you wish to discuss any of the above items in further detail, feel free to contact the undersigned on 9241 4188.

Yours faithfully

A handwritten signature in black ink that reads "P. Gillam".

Peter Gillam  
Senior Civil Engineer

**Northrop Consulting Engineers**

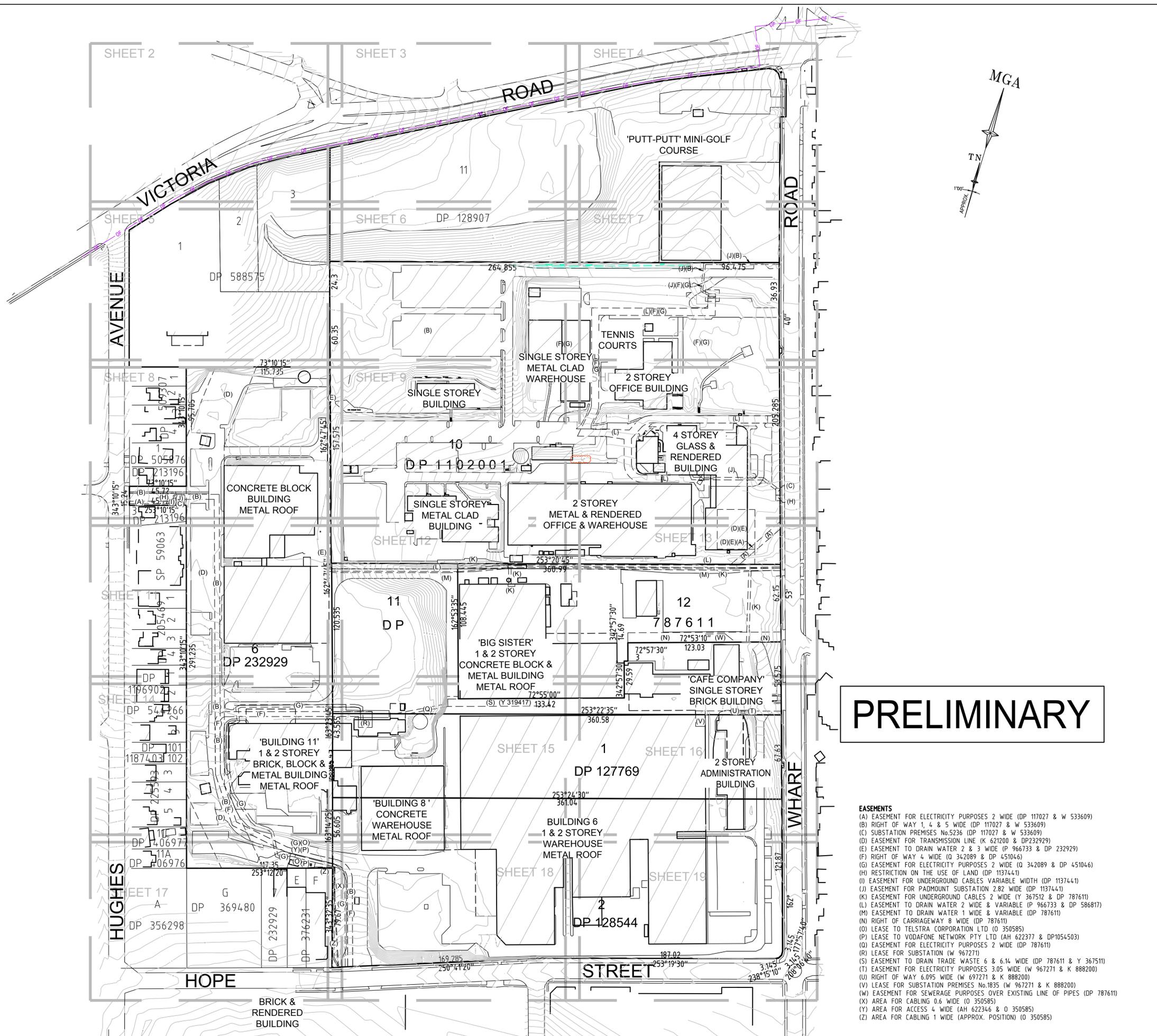
# APPENDIX A

**LEGEND**

BENCH MARK	▲
COMMS PIT	COM
TELSTRA PIT	TEL
OPTUS PIT	OPTUS
TELSTRA PILLAR	TELPL
RADIO TOWER	RTW
ELECTRIC LIGHT POLE	ELP
LIGHT POLE	LP
POWER POLE	PP
PIT WITH CONCRETE LID	CLID
PIT WITH METAL LID	MLID
STREET SIGN	SS
GRATED INLET PIT	GIP
KERB INLET PIT	KIP
SEWER INSPECTION POINT	SIP
SEWER MANHOLE	SMH
MANHOLE	MH
STOP VALVE	SV
HYDRANT	HYD
WATER METER	WM
WATER TAP	TAP
WATER VALVE	WVALVE
GAS LID	GAS
GAS MARKER	GASMKR
MONITORING WELL	MWELL
VEHICLE CROSSING	(VC)
PRAM CROSSING	(PC)
GAS	G
TELSTRA	T
OPTICAL FIBRE	OP
NATIONAL BROADBAND NETWORK (DBYD)	NBN
WATER	W
STORMWATER	SW
SEWER	S
ELECTRICITY (OVERHEAD)	P
ELECTRICITY (U'GROUND)	E
HIGH PRESSURE OIL (U'GROUND)	OIL

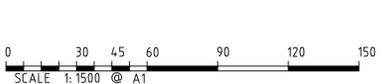
**NOTES**

- THE BOUNDARIES HAVE NOT BEEN MARKED
- ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY THE OFFICE OF LAND & PROPERTY INFORMATION (NSW) AND ARE SUBJECT TO FINAL SURVEY
- ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM SSM 108450 R.L. 26.386 (A.H.D.) IN WHARF ROAD
- CONTOUR INTERVAL 0.5 m
- CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
- ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
- KERB LEVELS ARE TO THE TOP OF KERB UNLESS SHOWN OTHERWISE
- FLOOR LEVELS SHOWN ARE THRESHOLD LEVELS. NO INVESTIGATION OF INTERNAL FLOOR LEVELS HAS BEEN UNDERTAKEN
- NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
- 8/4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT OF 7m
- BEARINGS SHOWN ARE MGA (MAP GRID OF AUSTRALIA) ADD APPROX. 1°00' FOR TRUE NORTH



**PRELIMINARY**

- EASEMENTS**
- (A) EASEMENT FOR ELECTRICITY PURPOSES 2 WIDE (DP 117027 & W 533609)
  - (B) RIGHT OF WAY 1.4 & 5 WIDE (DP 117027 & W 533609)
  - (C) SUBSTATION PREMISES No.5236 (DP 117027 & W 533609)
  - (D) EASEMENT FOR TRANSMISSION LINE (K 621200 & DP232929)
  - (E) EASEMENT TO DRAIN WATER 2 & 3 WIDE (P 966733 & DP 232929)
  - (F) RIGHT OF WAY 4 WIDE (O 342089 & DP 451046)
  - (G) EASEMENT FOR ELECTRICITY PURPOSES 2 WIDE (O 342089 & DP 451046)
  - (H) RESTRICTION ON THE USE OF LAND (DP 1137441)
  - (I) EASEMENT FOR UNDERGROUND CABLES VARIABLE WIDTH (DP 1137441)
  - (J) EASEMENT FOR PADMOUNT SUBSTATION 2.82 WIDE (DP 1137441)
  - (K) EASEMENT FOR UNDERGROUND CABLES 2 WIDE (Y 367512 & DP 787611)
  - (L) EASEMENT TO DRAIN WATER 2 WIDE & VARIABLE (P 966733 & DP 586817)
  - (M) EASEMENT TO DRAIN WATER 1 WIDE & VARIABLE (DP 787611)
  - (N) RIGHT OF CARRIAGEWAY 8 WIDE (DP 787611)
  - (O) LEASE TO TELSTRA CORPORATION LTD (O 350585)
  - (P) LEASE TO VODAFONE NETWORK PTY LTD (AH 622377 & DP1054503)
  - (Q) EASEMENT FOR ELECTRICITY PURPOSES 2 WIDE (DP 787611)
  - (R) LEASE FOR SUBSTATION (W 967271)
  - (S) EASEMENT TO DRAIN TRADE WASTE 6 & 6.14 WIDE (DP 787611 & Y 367511)
  - (T) EASEMENT FOR ELECTRICITY PURPOSES 3.05 WIDE (W 967271 & K 888200)
  - (U) RIGHT OF WAY 6.095 WIDE (W 967271 & K 888200)
  - (V) LEASE FOR SUBSTATION PREMISES No.1835 (W 967271 & K 888200)
  - (W) EASEMENT FOR SEWERAGE PURPOSES OVER EXISTING LINE OF PIPES (DP 787611)
  - (X) AREA FOR CABLING 0.6 WIDE (O 350585)
  - (Y) AREA FOR ACCESS 4 WIDE (AH 622346 & O 350585)
  - (Z) AREA FOR CABLING 1 WIDE (APPROX. POSITION) (O 350585)



Revision	Date	Description	Reference
D	00/00/00	-	00
C	00/00/00	-	00
B	00/00/00	-	00
A	00/00/00	-	00

THIS IS THE PLAN REFERRED TO IN MY LETTER DATED: \_\_\_\_\_  
 Registered Surveyor NSW  
**LTS LOCKLEY**  
 Registered Surveyors NSW  
 www.lts.com.au

Client THE TRUSTEE FOR C14 UNIT TRUST  
 Drawing title  
**PLAN OF DETAIL AND LEVELS OVER LOT 1 DP 127769, LOTS 11 & 12 DP 787611, LOT 2 DP 128544 AND LOT 6 DP 232929 AT 44 WHARF ROAD, MELROSE PARK**

datum AHD  
 site Area 16.25ha  
 LGA PARRAMATTA  
 project number 41367  
 scale 1:1000 @A1  
 OF 11 SHEETS  
 reference number 42480DT  
 date of survey 16/12/14  
 SHEET 1

## APPENDIX B

**GENERAL HYDRAULIC NOTES**

HW01. ALL WORKS SUBJECT TO SECTION 73 APPLICATION/FEASIBILITY APPLICATION.

HW02. BASED ON THE AVAILABLE INFORMATION THE SUBJECT SITE APPEARS TO BE CLEAR OF SYDNEY WATER EASEMENTS.

**WATER**

W01. GIVEN THE SCALE & NUMBER OF RESIDENTIAL APARTMENTS PROPOSED AS PART OF THE DEVELOPMENT, 5101 APARTMENTS, THE EXISTING AVAILABLE SYDNEY WATER MAINS WITHIN VICTORIA ROAD, WHARF ROAD AND HOPE STREET MAY BE ABLE TO CATER FOR THE ADDITIONAL DEMAND.

W02. THE FINAL EXTENT OF THE AUGMENTATION INCLUDING CONNECTION POINT TO A LARGE WATER MAIN WILL BE CONFIRMED BY SWC.



Date:	27.03.2017	Project No:	150077
Project:	MELROSE PARK		
Title:	HYD INFRASTRUCTURE WATER_STAGE 8		
Drawn No:	HSK-07	Revision:	1
Drawn:	SA	Scale:	NTS

**GENERAL HYDRAULIC NOTES**

HS01. ALL WORKS SUBJECT TO SECTION 73 APPLICATION/FEASIBILITY APPLICATION.

HS02. BASED ON THE AVAILABLE INFORMATION THERE APPEARS TO BE 900mm SYDNEY WATER SEWER MAIN TRAVELING THE SITE UNDER LOT FB, LOT H AND LOT EC. THE OPTIONS FOR SEWER DIVERSION AND BUILDING OVER THE SYDNEY WATER ASSET HAVE BEEN ATTACHED (AS PREVIOUSLY ADVISED).

**SEWER**

S01. GIVEN THE SCALE & NUMBER OF RESIDENTIAL APARTMENTS PROPOSED AS PART OF THE DEVELOPMENT, 5101 APARTMENTS, A SIGNIFICANT AMOUNT OF WORKS IS EXPECTED TO THE SYDNEY WATER SEWER TO SUPPORT THIS DEVELOPMENT. IN TERMS OF THE EXISTING & EXPECTED SEWER WORKS THE FOLLOWING ARE NOTED.

A) THE EXISTING 150mm SWC SEWER ALONG THE WESTERN BOUNDARY MAY BE REQUIRED TO BE UPSIZED TO 225MM APPROX. 550m SUBJECT TO SECTION 73 APPLICATION TO SYDNEY WATER.

B) THE FINAL EXTENT OF AUGMENTATION INCLUDING CONNECTION POINT WILL BE CONFIRMED BY SYDNEY WATER.

EXISTING 225mm SYDNEY WATER SEWER MAIN TO BE MADE REDUNDANT AND CAPPED OFF WITHIN SUPERLOT EA NEXT TO THE WHARF ROAD BOUNDARY. PROPERTY SEWER CONNECTION FROM SUPERLOT EA TO BE CONNECTED INTO THIS SEWER.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT A.

NEW 450mm SEWER MAIN TO BE LAID CONNECTING INTO THE 1200mm SYDNEY WATER SEWER MAIN WITHIN WHARF ROAD.

150mm SEWER HIGHLIGHTED PORTION MAY BE REQUIRED TO BE UPSIZED TO 300mm SUBJECT TO A SECTION 73 APPLICATION. THIS CAN SERVE MELROSE PARK MASTERPLAN IN THE FUTURE AS WELL.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT C.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT FA.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT G.

900mm SYDNEY WATER SEWER MAIN TRAVERSING THE SITE TO BE BUILT OVER OR RE-ROUTED IN ACCORDANCE TO THE OPTIONS PROPOSED PREVIOUSLY. (PLEASE REFER ATTACHED OPTIONS)

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT FB.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT K.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT M & L.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT N.

NOT PART OF THIS PLANNING PROPOSAL

NEW 225mm SYDNEY WATER SEWER MAIN TO BE LAID CONNECTING SUPERLOT B TO EXISTING 225mm SYDNEY WATER SEWER MAIN (TO BE UPSIZED TO 300mm)

225mm SYDNEY WATER SEWER MAIN TO BE UPSIZED TO 300mm SUBJECT TO SYDNEY WATER SECTION 73 APPLICATION.

CONNECT NEW 450mm SEWER MAIN INTO THE 1200mm SYDNEY WATER SEWER MAIN WITHIN WHARF ROAD

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT EC&EB.

900mm SYDNEY WATER SEWER MAIN TRAVERSING THE SITE TO BE BUILT OVER OR RE-ROUTED IN ACCORDANCE TO THE OPTIONS PROPOSED PREVIOUSLY. (PLEASE REFER ATTACHED OPTIONS)

NEW 300mm SEWER MAIN TO BE LAID CONNECTING INTO THE 900mm SYDNEY WATER SEWER MAIN TRAVERSING THE SITE.

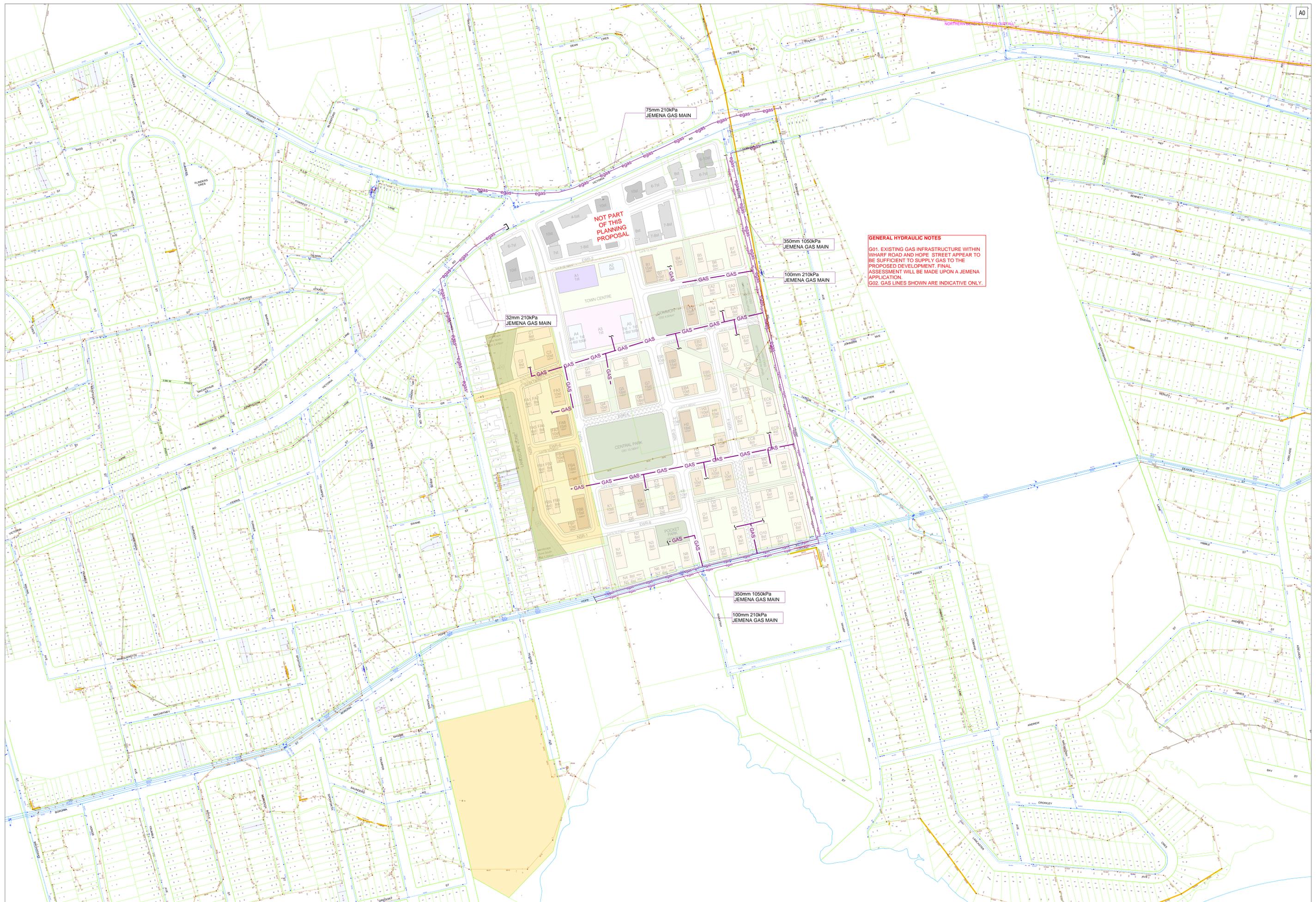
NEW 300mm SEWER MAIN TO BE LAID CONNECTING INTO THE 900mm SYDNEY WATER SEWER MAIN TRAVERSING THE SITE.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT M & L.

225mm PROPERTY SEWER CONNECTION FOR SUPERLOT O.

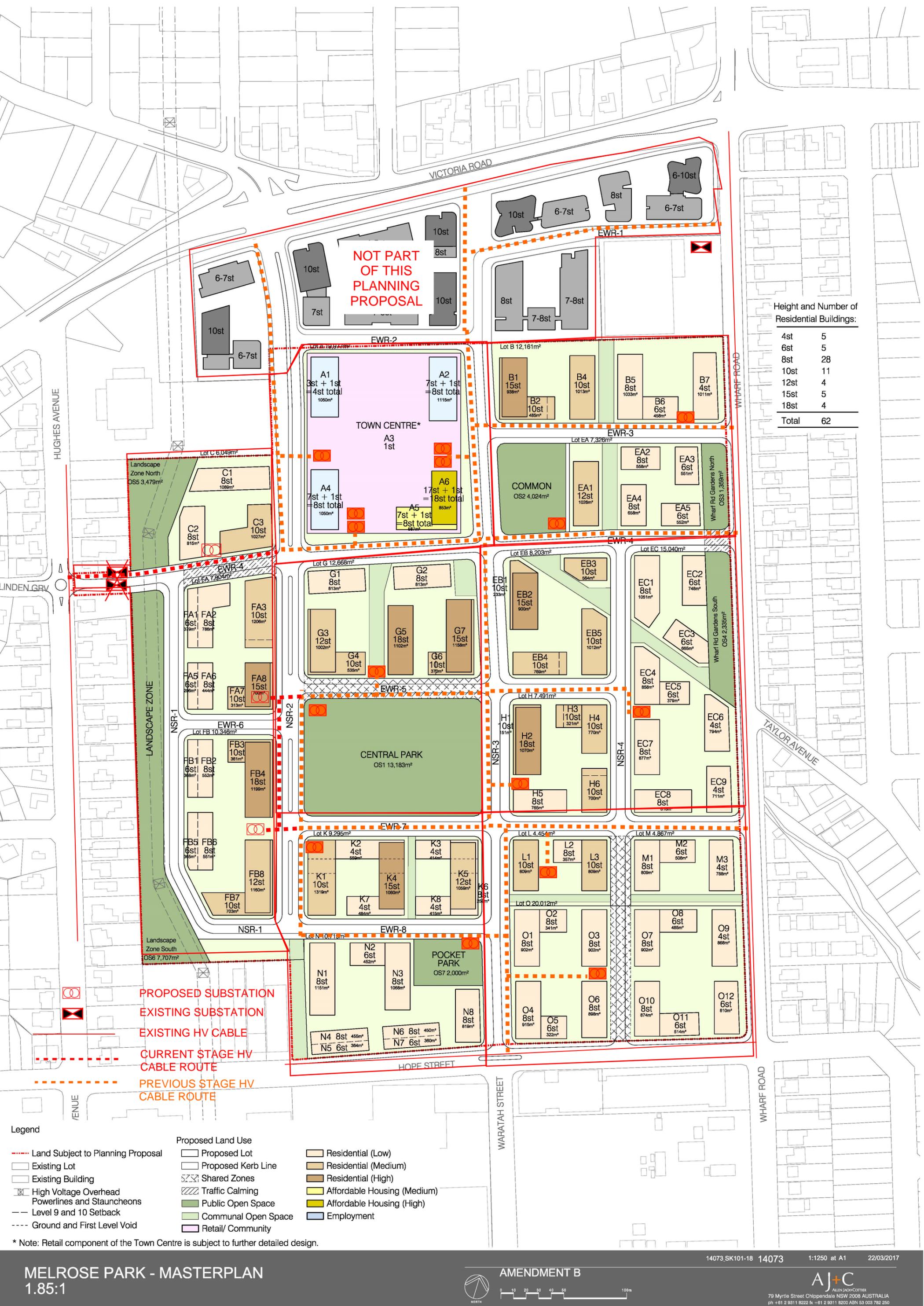
Date:	27.03.2017	Project No:	150077
Project:	MELROSE PARK		
Title:	HYD INFRASTRUCTURE_SEWER_STAGE 8		
Drawing No:	HSK-07	Revision:	1
Drawn:	ASH	Scale:	NTS





NOT PART OF THIS PLANNING PROPOSAL

**GENERAL HYDRAULIC NOTES**  
 G01. EXISTING GAS INFRASTRUCTURE WITHIN WHARF ROAD AND HOPE STREET APPEAR TO BE SUFFICIENT TO SUPPLY GAS TO THE PROPOSED DEVELOPMENT. FINAL ASSESSMENT WILL BE MADE UPON A JEMENA APPLICATION.  
 G02. GAS LINES SHOWN ARE INDICATIVE ONLY.



**NOT PART OF THIS PLANNING PROPOSAL**

Height and Number of Residential Buildings:

4st	5
6st	5
8st	28
10st	11
12st	4
15st	5
18st	4
<b>Total</b>	<b>62</b>

- PROPOSED SUBSTATION
- EXISTING SUBSTATION
- EXISTING HV CABLE
- CURRENT STAGE HV CABLE ROUTE
- PREVIOUS STAGE HV CABLE ROUTE

- Legend**
- |  |                     |                             |
|--|---------------------|-----------------------------|
| Land Subject to Planning Proposal                | Proposed Lot        | Residential (Low)           |
| Existing Lot                                     | Proposed Kerb Line  | Residential (Medium)        |
| Existing Building                                | Shared Zones        | Residential (High)          |
| High Voltage Overhead Powerlines and Stauncheons | Traffic Calming     | Affordable Housing (Medium) |
| Level 9 and 10 Setback                           | Public Open Space   | Affordable Housing (High)   |
| Ground and First Level Void                      | Communal Open Space | Employment                  |
|  | Retail/ Community   |                             |

\* Note: Retail component of the Town Centre is subject to further detailed design.