Sydney Metro

PITT STREET NORTH OVER STATION DEVELOPMENT

Y.2 Infrastructure Services and Utilities Report

Electrical and Communications

State Significant Development,
Development Application (SSD,DA)

SMCSWSPS-LCI-OSN-BS-REP-000001

Prepared for:
Pitt Street Developer North Pty Ltd

22/06/2020
Revision C

Reason for issue:
Issue for DPIE

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Revision Information

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Title	Infrastructure Services and Utilities Report Electrical and Communications SMCSWSPS-LCI-OSN-BS-REP-000001
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Revision	C
Revision Date	22 June 2020
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Revision Schedule

Revision	Date	Issue Name	Author	Authorised
P1	05/12/2020	Draft	AK/VD	DJC
P2	13/02/2020	Draft	AK/VD	DJC
P3	09/03/2020	Draft	AK/VD	DJC
P4	10/03/2020	Draft	AK/VD	DJC
B	01/05/2020	Land Owner's Consent	AK/VD	DJC
C	22/06/2020	DPIE	AK/VD	DJC

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1 Executive Summary

This report addresses the key planning considerations and utility consultations to date for the new Pitt Street North Over Station Development (OSD), located at 252 Pitt St, Sydney, NSW, 2000.

It seeks to address the requirements of outlined within the Planning Secretary's Environmental Assessment Requirements (SEARS) dated 25 October 2019. Specifically, this report has been prepared to respond to the SEARS requirements summarised in Table 1.

Table 1 - SEARs Requirements

Item	Description of Requirement	Section Reference
12(a) Utilities	- Identify and address the existing capacity to service the development proposed and any augmentation requirements for utilities in consultation with relevant agencies.	Section 3 Section 4
12(b) Utilities	- Identify any potential impacts of the proposed construction and operation on the existing utility infrastructure and service provider assets, and demonstrate how these will be protected, or impacts mitigated.	Section 3

This report has also been prepared in response to the following Condition of Consent for the State Significant Development Concept (SSD 8875) for the Pitt Street North OSD summarised in Table 2.

Table 2 - Concept Approval Conditions of Consent

Item	Description of Requirement	Section Reference
B20 – Utilities	Address the existing capacity and any augmentation requirements of the development for the provision of utilities, including staging of infrastructure through the preparation of an infrastructure / utility management plan in consultation with relevant agencies and services providers.	Section 3 Section 4

Review of the existing electrical and communications infrastructure near the development is contained in Section 3. The electrical and communications requirements for the development and capacity of the utility infrastructure to serve the development is addressed in Section 4.

The potential impact of the construction and operation on existing utility infrastructure and services provider assets, along with the proposed mitigation strategy is discussed in Section 3.

The findings of this report are summarised below:

- there is capacity in the Electrical network to support the development – Design Information Package (DIP) received on 31/12/2019
- the Ausgrid electrical network will be augmented and extended to provide supply to two chamber substations, located within the development
- capacity in the Communications network to support the development – TBC, pending submission of the NBN Application for Connection
- adjacent existing Utility assets have been identified using Dial Before You Dig (DBYD) and survey
- protection of existing services will be addressed in the Construction Environment Management Plan (CEMP) by the Managing Contractor.
- consultation history is included in Section 5

Changes within the report since last revision is outlined in Table 3

Table 3 – Updates since previous submission

Item	Description of Chane	Section Reference
1	Updates to Sydney Metro Description (including Figure 2 – Sydney Metro Alignment Map)	Section 2.2

2 Introduction

This report has been prepared to accompany a detailed State Significant Development (SSD) development application (DA) for a commercial mixed-use Over Station Development (OSD) above the new Sydney Metro Pitt Street North Station. The detailed SSD DA is consistent with the Concept Approval (SSD 17_8875) granted for the maximum building envelope on the site, as proposed to be modified.

The Minister for Planning, or their delegate, is the consent authority for the SSD DA and this application is lodged with the NSW Department of Planning, Industry and Environment (NSW DPIE) for assessment.

This report has been prepared in response to the requirements contained within the Secretary's Environmental Assessment Requirements (SEARs) dated 25 October 2019.

The detailed SSD DA seeks development consent for:

- Construction of new commercial tower of approximately 38 storeys
- The tower includes maximum GFA, excluding floor space approved in the CSSI.
- Integration with the approved CSSI proposal including though not limited to:
- Structures, mechanical and electronic systems, and services; and
- Vertical transfers.
- Use of spaces within the CSSI 'metro box' building envelope for the purposes of:
- Retail tenancies;
- Commercial lobby and commercial amenities;
- Car parking spaces within the podium for the purposes of the commercial premises; and
- Loading and services access.
- Utilities and services provision.
- Stratum subdivision (staged).

2.1 The Site

The site is located within the Sydney CBD. It has three separate street frontages, Pitt Street to the west, Park Street to the south and Castlereagh Street to the east. The area surrounding the site consists of predominantly commercial high-density buildings and some residential buildings, with finer grain and heritage buildings dispersed throughout.

The site has an approximate area of 3,150.1sqm and is legally described as follows:

- 252 Pitt Street (Lot 20 in DP1255509)

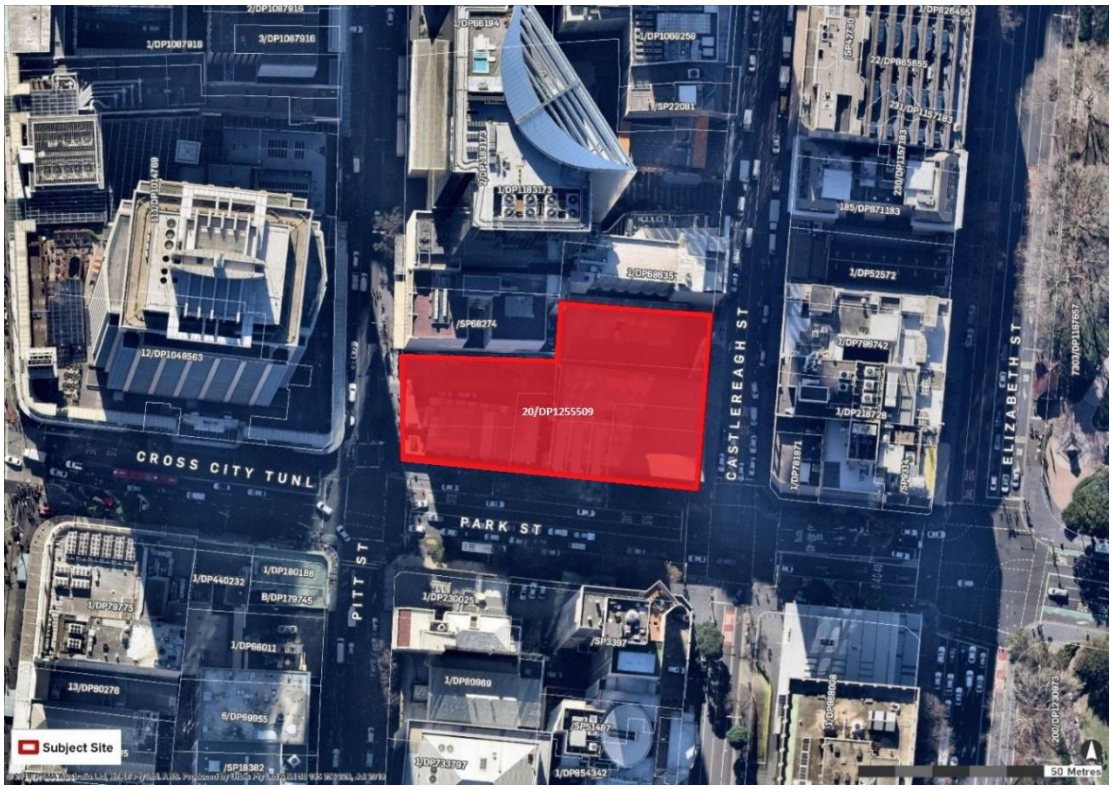


Figure 1: Location Plan - Pitt St North OSD (Source: Urbis)

2.2 Sydney Metro Description

Sydney Metro is Australia's biggest public transport program. A new standalone railway, this 21st century network will revolutionise the way Sydney travels.

There are four core components:

1. Sydney Metro Northwest (formerly the 36km North West Rail Link)

This project is now complete and passenger services commenced in May 2019 between Rouse Hill and Chatswood, with a metro train every four minutes in the peak. The project was delivered on time and $1 billion under budget.

2. Sydney Metro City & Southwest

Sydney Metro City & Southwest project includes a new 30km metro line extending metro rail from the end of Metro Northwest at Chatswood, under Sydney Harbour, through new CBD stations and southwest to Bankstown. It is due to open in 2024 with the ultimate capacity to run a metro train every two minutes each way through the centre of Sydney.

Sydney Metro City & Southwest will deliver new metro stations at Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street, Waterloo and new underground metro platforms at Central Station. In addition it will upgrade and convert all 11 stations between Sydenham and Bankstown to metro standards.

In 2024, customers will benefit from a new fully-air conditioned Sydney Metro train every four minutes in the peak in each direction with lifts, level platforms and platform screen doors for safety, accessibility and increased security.

3. Sydney Metro West

Sydney Metro West is a new underground railway connecting Greater Parramatta and the Sydney CBD. This once-in-a-century infrastructure investment will transform Sydney for generations to come, doubling rail capacity between these two areas, linking new communities to rail services and supporting employment growth and housing supply between the two CBDs.

The locations of seven proposed metro stations have been confirmed at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock and The Bays.

The NSW Government is assessing an optional station at Pyrmont and further planning is underway to determine the location of a new metro station in the Sydney CBD.

4. Sydney Metro – Western Sydney Airport

Metro rail will also service Greater Western Sydney and the new Western Sydney International (Nancy Bird Walton) Airport. The new railway line will become the transport spine for the Western Parkland City's growth for generations to come, connecting communities and travellers with the rest of Sydney's public transport system with a fast, safe and easy metro service. The Australian and NSW governments are equal partners in the delivery of this new railway.

The Sydney Metro Project is illustrated in the figure below.

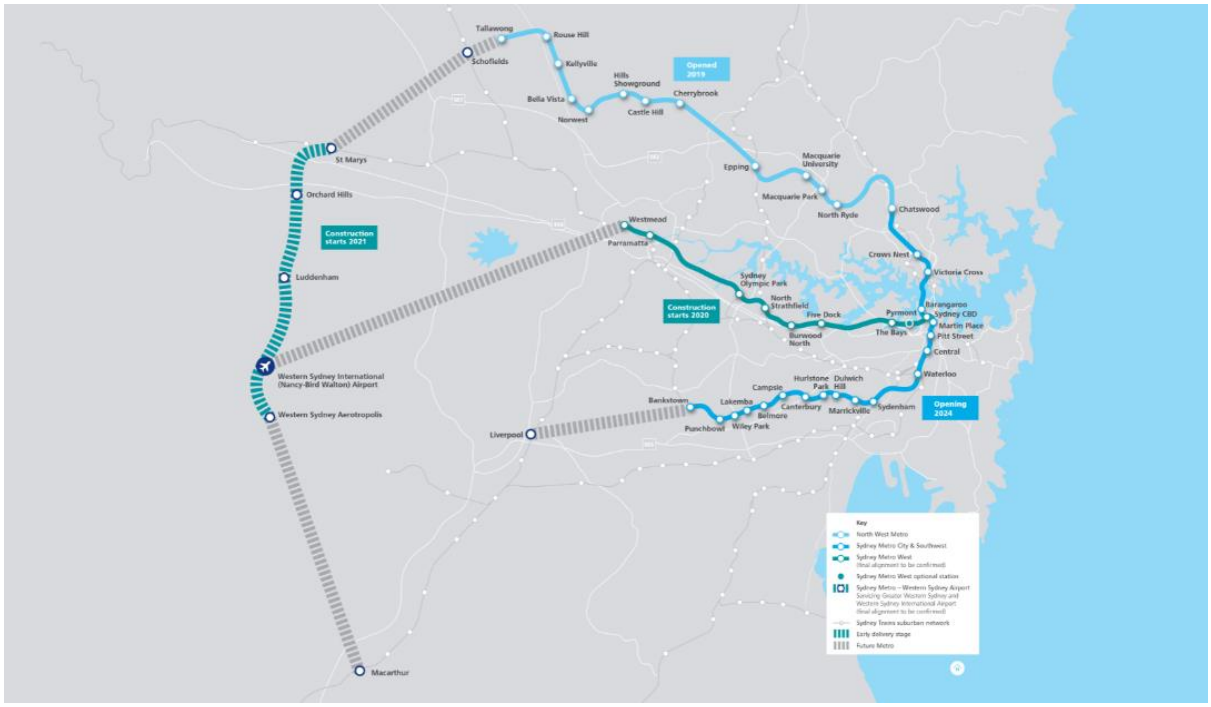


Figure 2: Sydney Metro Alignment Map (Source: Sydney Metro)

On 9 January 2017, the Minister for Planning approved the Sydney Metro City & Southwest - Chatswood to Sydenham project as a Critical State Significant Infrastructure project (reference SSI 15_7400) (CSSI Approval). The terms of the CSSI Approval includes all works required to construct the Sydney Metro Pitt Street Station, including the demolition of existing buildings and structures on both sites (north and south). The CSSI Approval also includes construction of below and above ground works within the metro station structure for appropriate integration with over station developments.

The CSSI Approval included Indicative Interface Drawings for the below and above ground works at Pitt Street North Metro Station site. The delineation between the approved Sydney Metro works, generally described as within the “metro box”, and the Over Station Development (OSD) elements are illustrated below. The delineation line between the CSSI Approved works and the OSD envelope is generally described below or above the transfer slab level respectively.

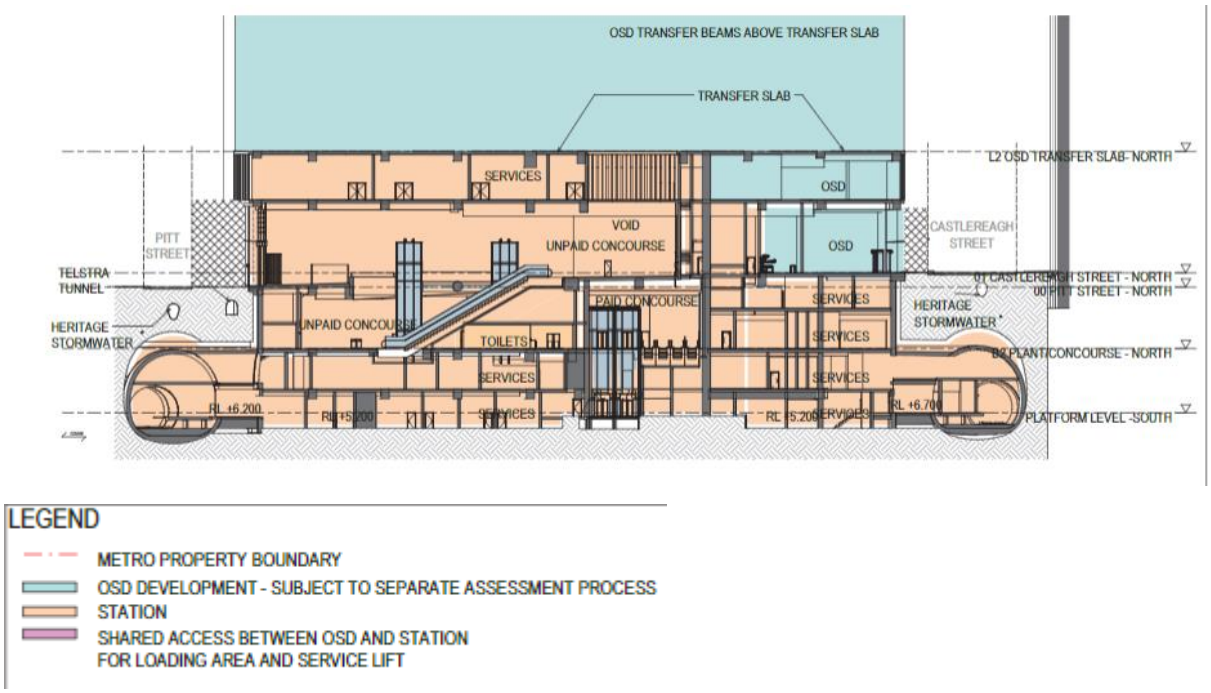
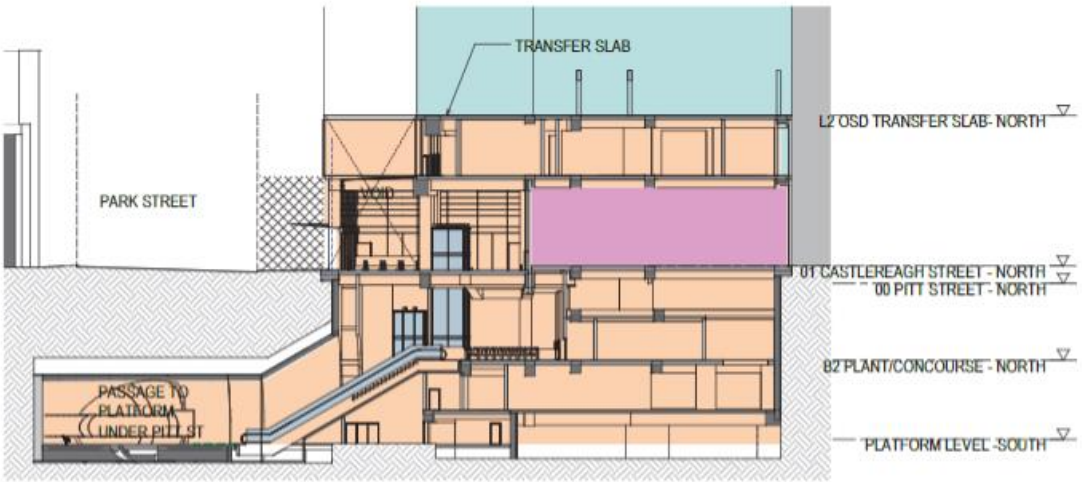


Figure 3: Pitt Street Station - North (East- West Section) (Source: CSSI Preferred Infrastructure Report (TfNSW)



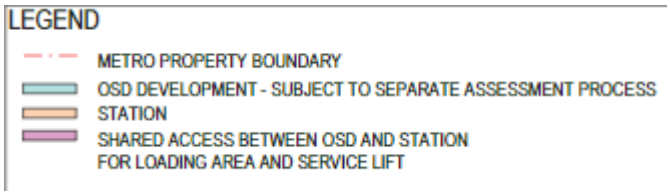


Figure 4: Pitt St Station - North (North- South Section) (Source: CSSI Preferred Infrastructure Report (TfNSW)

The Preferred Infrastructure Report (PIR) noted that the integration of the OSD elements and the metro station elements would be subject to the design resolution process, noting that the detailed design of the "metro box" may vary from the concept design assessed within the planning approval.

As such in summary:

- The CSSI Approval provides consent for the construction of all structures within the approved "metro box" envelope for Pitt Street North.
- The CSSI Approval provides consent for the fit out and use of all areas within the approved "metro box" envelope that relate to the ongoing use and operation of the Sydney Metro.
- The CSSI Approval provides consent for the embellishment of the public domain, and the architectural design of the "metro box" envelope as it relates to the approved Sydney Metro and the approved Pitt Street North Station Design & Precinct Plan.
- Separate development consent however is required to be issued by the NSW DPIE for the use and fit-out of space within the "metro box" envelope for areas related to the OSD, and notably the construction and use of the OSD itself.

As per the requirements of clause 7.20 of the *Sydney Local Environmental Plan 2012*, as the OSD exceeds a height of 55 metres above ground level (among other triggers), development consent is first required to be issued in a Concept (formerly known as Stage 1) DA. This is described below.

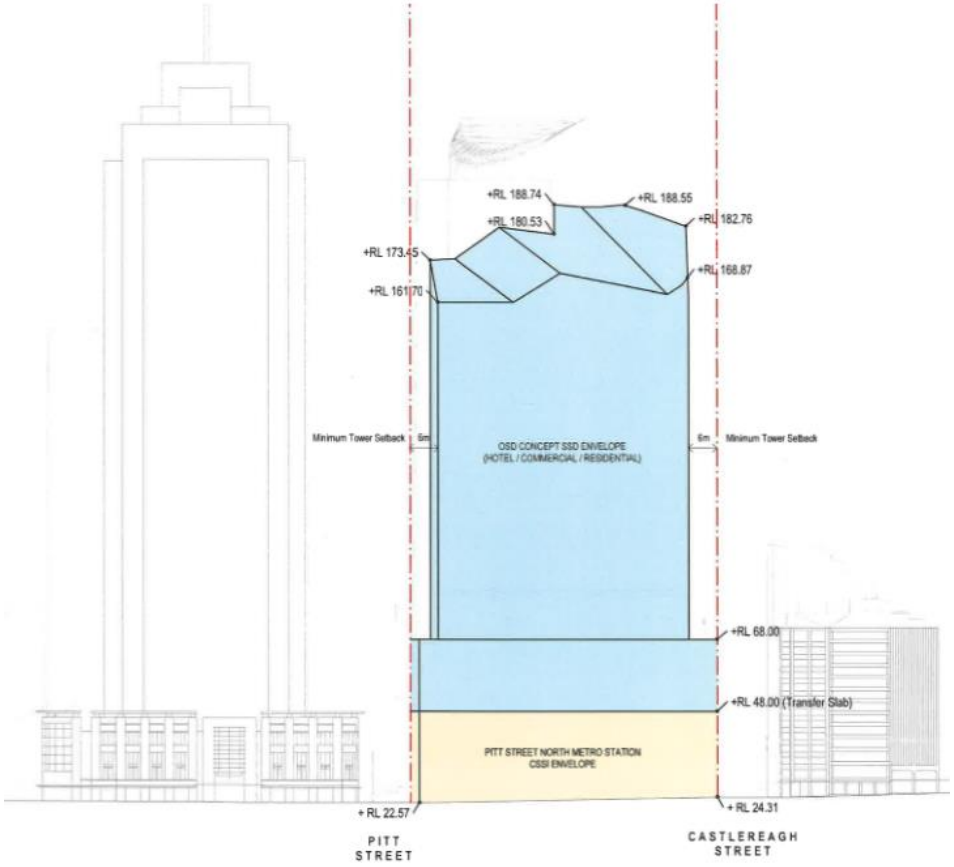


Figure 5: Pitt Street North Concept SSD DA - Envelope - South Elevation (Source: SSD 8875 Concept Stamped Plans)

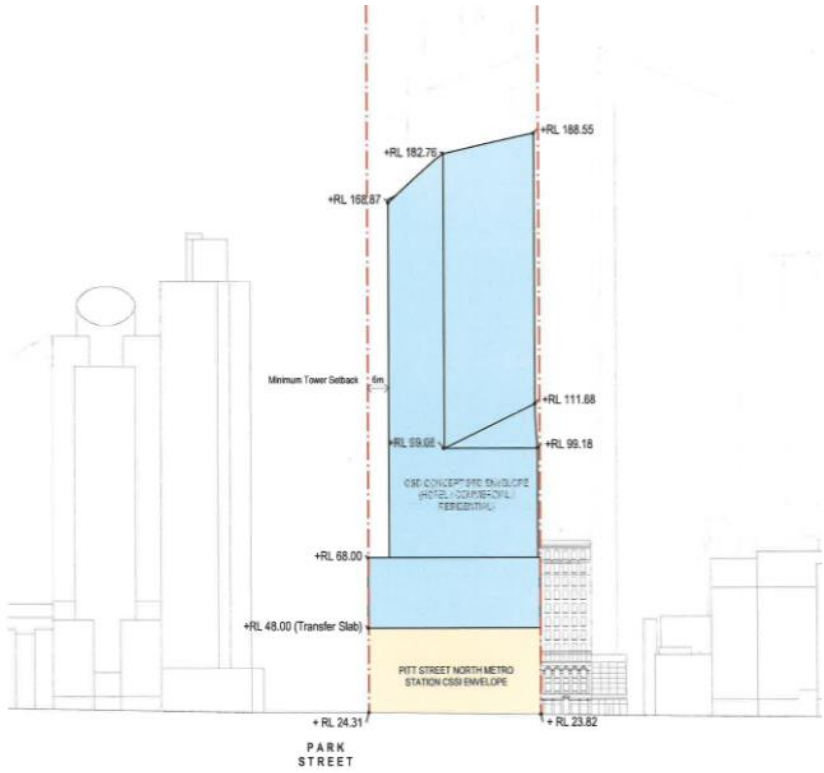


Figure 6: Pitt Street North Concept SSD DA – Envelope – East Elevation (Source: SSD 8875 Concept Stamped Plans)

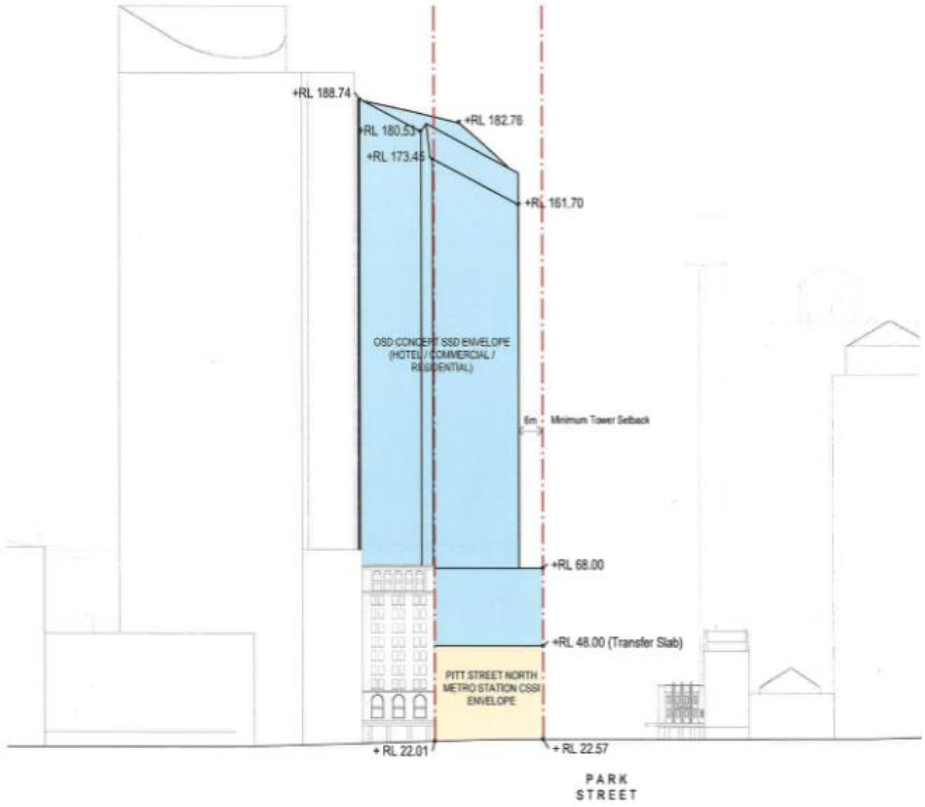


Figure 7: Pitt St North Concept SSD DA - Envelope - West Elevation (Source: SSD 8875 Concept Stamped Plans)

3 Existing Services

3.1 Dial Before You Dig

The existing utility services assessment for the site is established through information provided by Dial Before you Dig (DBYD). A DBYD enquiry was lodged on the 21st of November 2019 and identified the following services adjacent the development:

Provider	Service	Assessment/Impact
AAPT/PowerTel	Communications	Underground fibre optic/ telecommunications cables along Park St, Pitt St and Castlereagh Street in non AAPT Duct.
AARNet	Communications	Underground fibre optic assets along Pitt St.
Ausgrid	Electricity	HCV feeders, distributors, service conductors, substations, supply points, poles and switch stations are identified along Pitt St, Park St and Castlereagh.
City of Sydney (IMS)	Council Shire	Stormwater conduit, storm water structures and smart poles along Pitt St, Park St and Castlereagh St
Jemena Gas	Gas & Petroleum	Gas distribution and valves located alongside Park St, Pitt St and Castlereagh St
NBN Co	Communications	Manholes, trenches containing in service copper/RF/fibre along Pitt St, Park St and Castlereagh St
Nextgen	Communications	Cable installed in third party duct along Pitt St and Castlereagh St
Optus/Uecomm	Communications	Optus underground fibre, cable, conduits and pits identified along Pitt St, Park St and Castlereagh St Uecomm underground asset identified along Castlereagh St
Pipe Networks	Communications	Cable assets located within duct (Telstra) along Castlereagh St
Roads and Maritime Services	Electricity	Cable assets, conduits and pits located at the corner of Pitt St and Park St as well as corner of Park St and Castlereagh St

Provider	Service	Assessment/Impact
Sydney Metro	Road and Rail	Underground tunnel asset along Pitt St and Castlereagh St
Sydney Water	Water	Sydney water asset found along Pitt St, Park St and Castlereagh St
Telstra	Communications	Underground Telstra asset found
Transurban Cross City Tunnel	Road & Rail	Identified that the development is within vicinity of the Cross City Tunnel Motorway (CCT), Associated services are not identified on the documentation provided
Verizon Business	Communications	Underground Verizon Duct found along Castlereagh St
Vocus Communications	Communications	Pit and conduit is identified along Castlereagh St as well as far side of Pitt St

In summary, major electrical, communications and other services reticulate along Pitt St, Park St and Castlereagh St adjacent to the development boundary. Any works outside or crossing the boundary must be coordinated with the affected utilities.

3.2 Survey and Services Location

Utilities investigation survey was conducted and have been provided by Veris on drawing SMCSWSPS-VER-OSN-SR-DWG-00001-B1 (attached in Appendix A)



Figure 8 Survey Layout Extracted From SMCSWSPS-VER-OSN-SR-DWG-00001-B1

3.3 Scope Delineation

The utility services completed within the report relates to the utility requirements for connection of the Pitt Street North OSD tower only. It is understood that separate incoming electrical and communication utility services will be provided to the station.

3.4 Electrical Services

It is understood the existing electrical supply to the site has been decommissioned and removed to facilitate the construction of the Pitt St Metro Station as a separate development.

There are existing electrical services in the vicinity of the site, reticulated below Pitt St, Park St and Castlereagh St. These services primarily consist of transmission, high-voltage (HV) and low-voltage (LV) ducts, pits and cabling infrastructure, substations, poles and pillars as well as electrical signalling assets shown on Figure 9 to Figure 12.

The main impact to existing services will involve the modifications to the Ausgrid network to bring new electrical supply to serve the over-station development.

The Pitt Street North OSD does not include public domain works along Pitt St, Park St and Castlereagh St and will therefore not impact existing street lighting.

To ensure damage does not occur to existing services adjacent the construction site, pits, conduit and street lighting may require additional protection. This will be addressed in the Construction and Environmental Management Plan (CEMP) by the Managing Contractor.

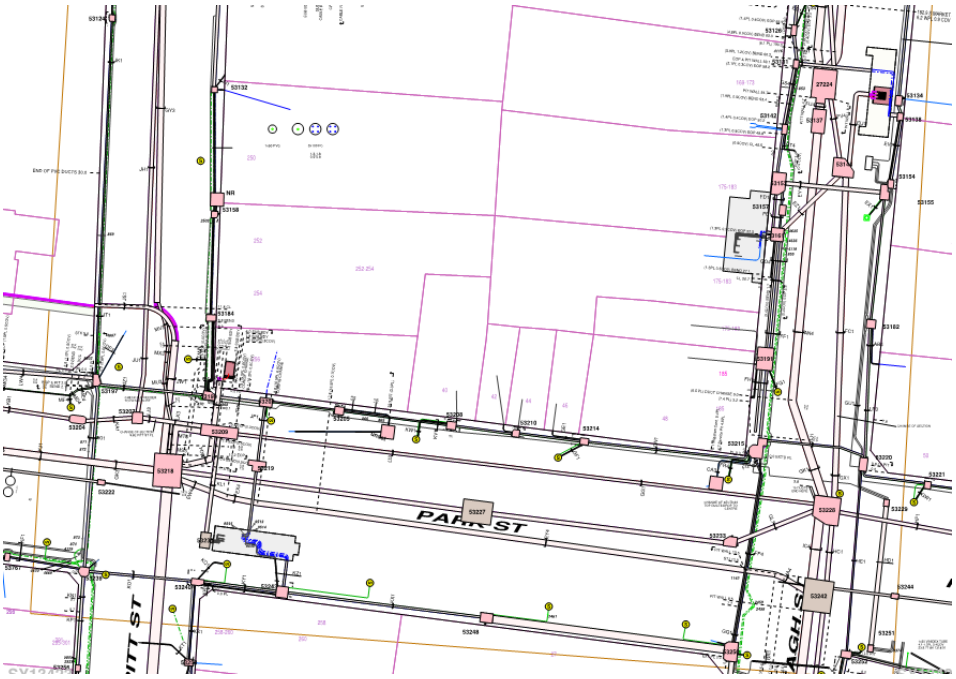


Figure 9 - Ausgrid DBYD Extract



Figure 10 - City of Sydney DBYD Extract – Ausgrid Assets

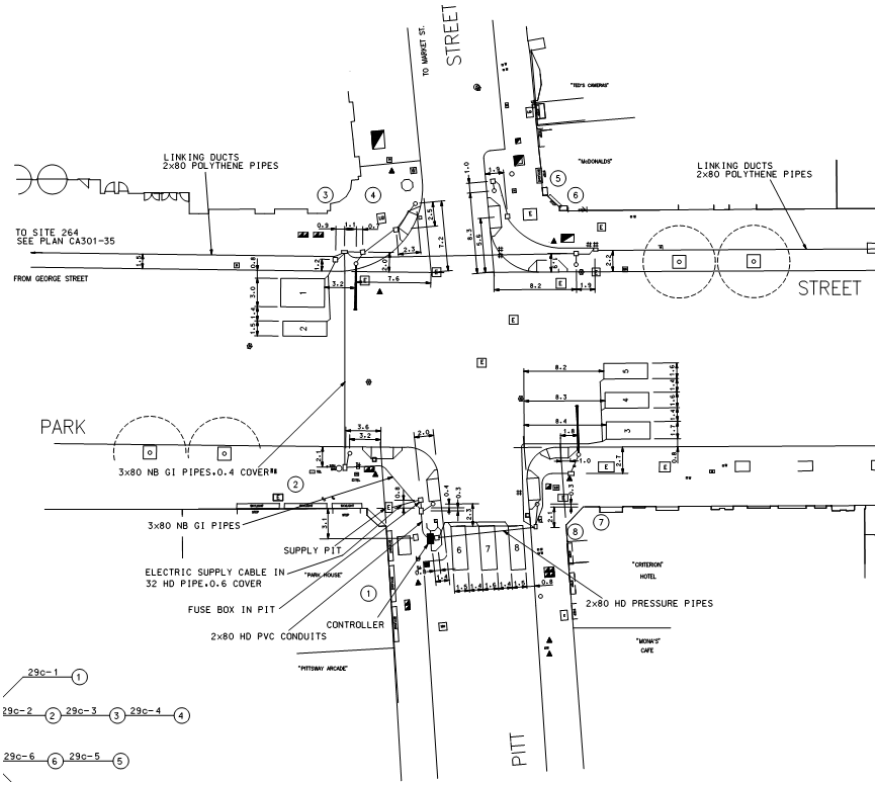


Figure 11 – Roads and Maritime Services (Corner of Pitt St and Park St) DBYD Extract

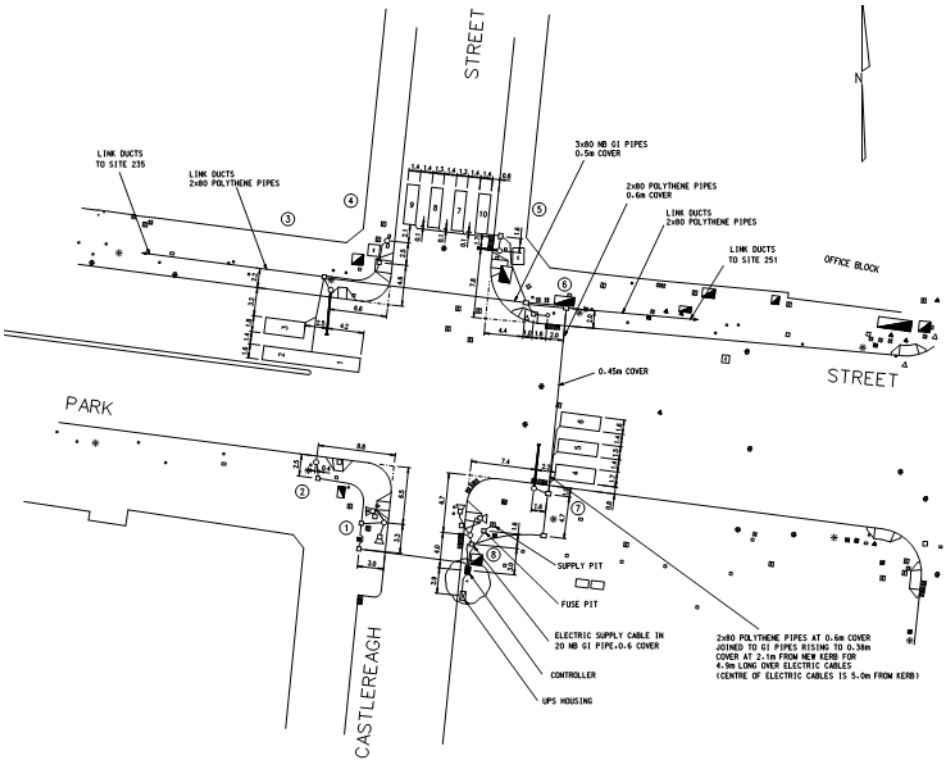


Figure 12 – Roads and Maritime Services (Corner of Part St and Castlereagh St) DBYD Extract

3.5 Communications Services

It is understood the existing communications services into the site has been decommissioned and removed to facilitate the construction of the Pitt St Metro Station as a separate development.

There are existing telecommunication services in the vicinity of the site, reticulated below Pitt St, Park St and Castlereagh St. These services primarily consist of telecommunication pits, underground conduit and fibre. Refer to Figure 13 to Figure 19 for the extracts of the relevant telecommunication assets.

To ensure damage does not occur to existing services adjacent the construction site, pits, conduits/ducts, underground cabling and optical fibre may require additional protection. This will be addressed in the Construction and Environmental Management Plan (CEMP) by the Managing Contractor.

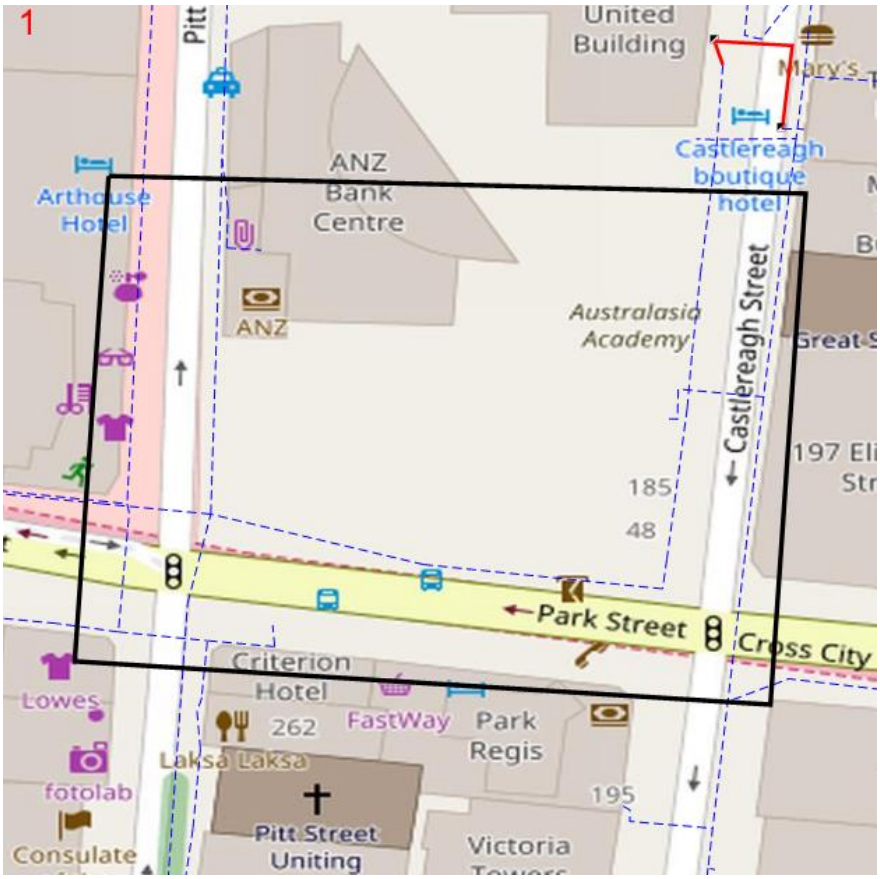


Figure 13 – AAPT DBYD Extract

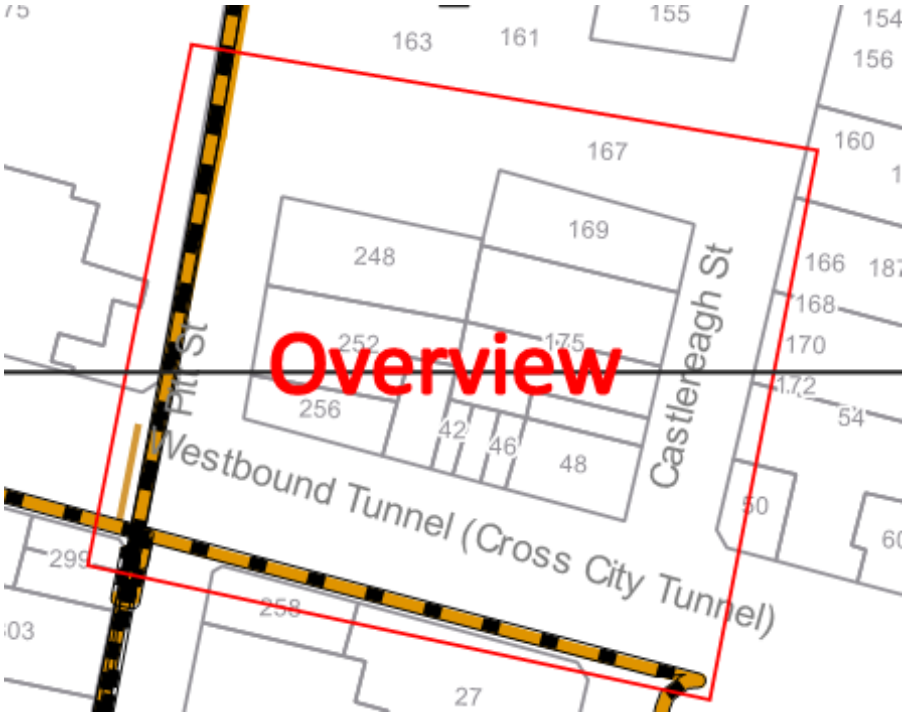


Figure 14 - Nextgen Group DYBD Extract



Figure 15 - Optus DBYD Survey



Figure 16 – Uecomm DBYD Survey

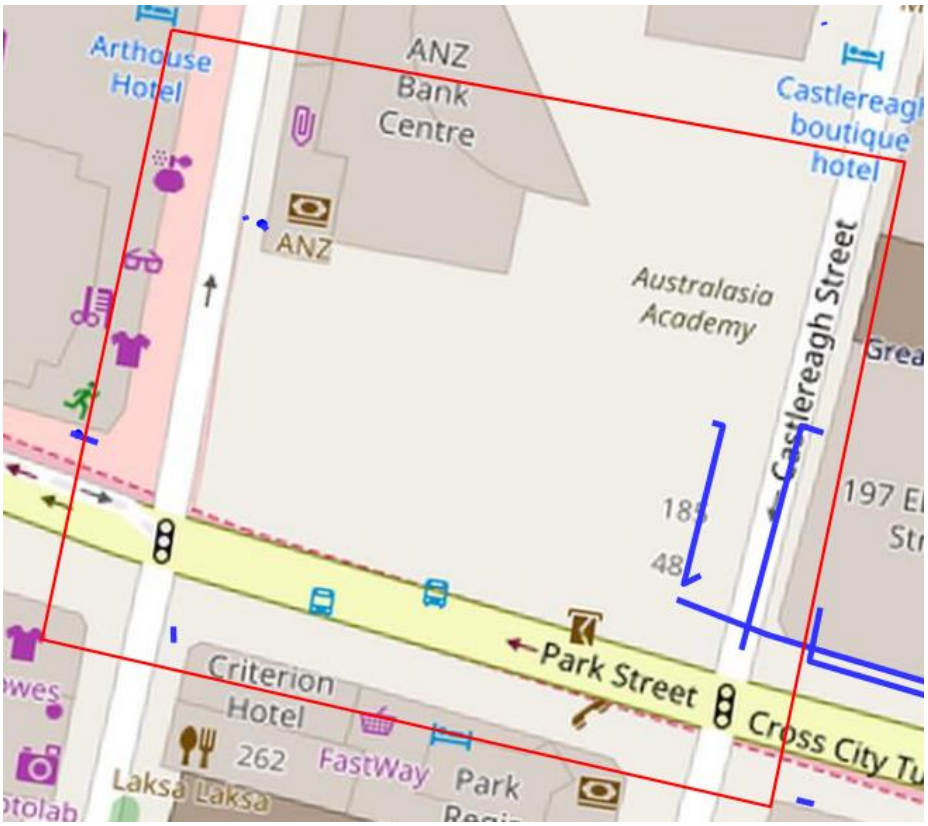


Figure 17 – Pipe Networks DBYD Extract

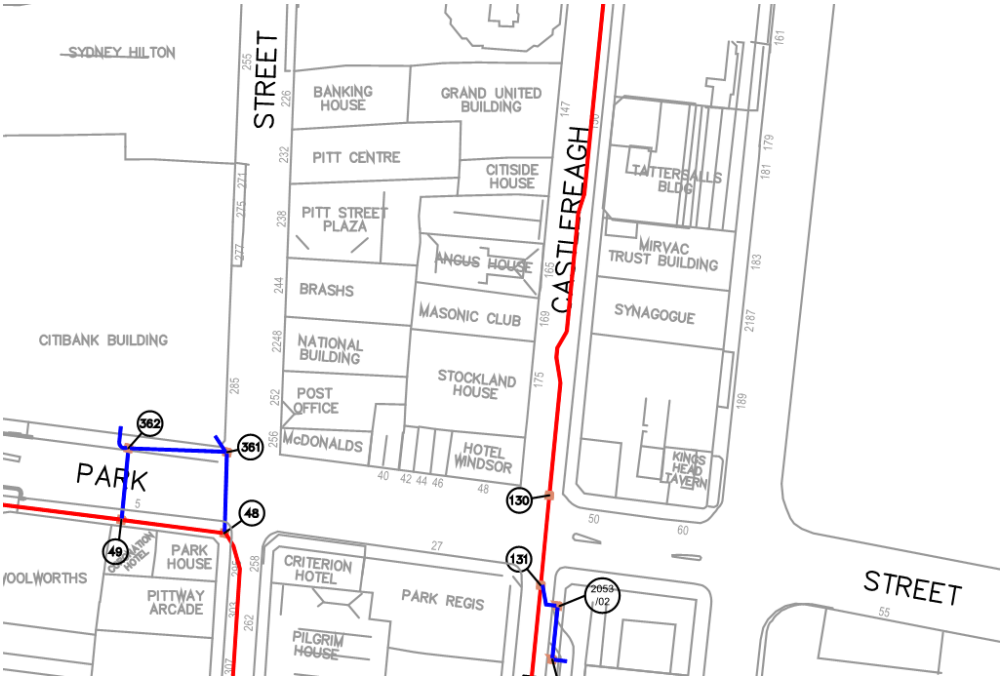


Figure 18 - Verizon DBYD Extract

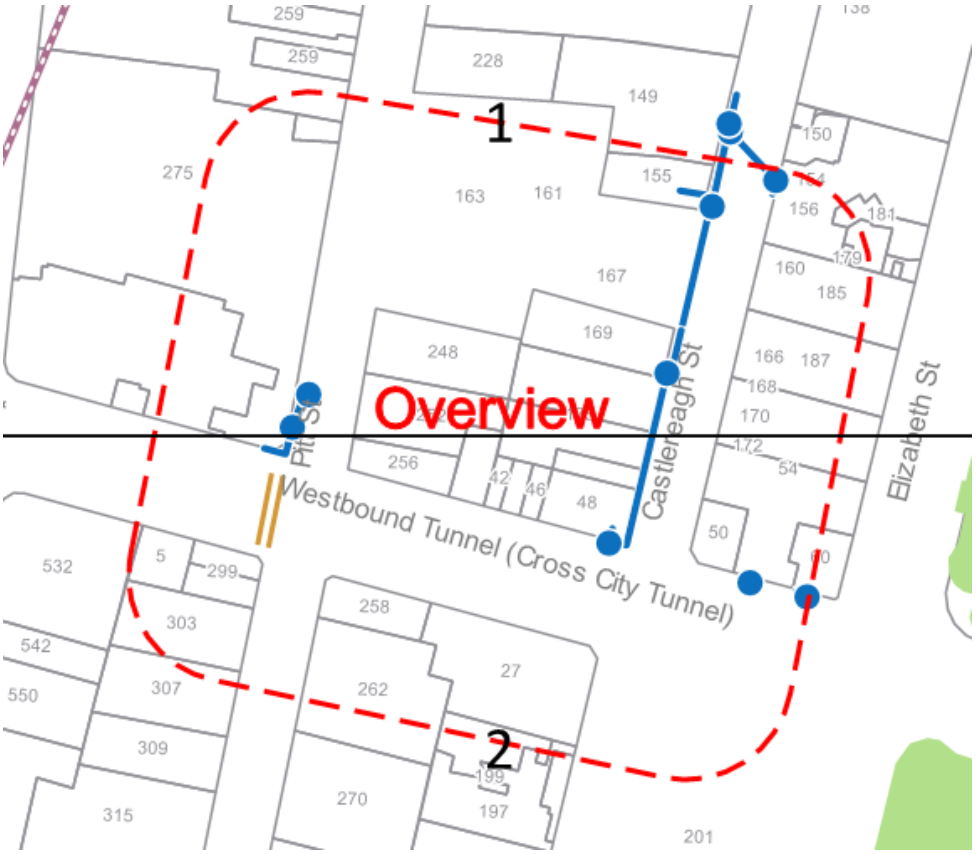


Figure 19 - Vocus DBYD Extract

4 Infrastructure Requirements

4.1 Electrical Services

The electrical demand is calculated based on AS3000 Table C1, PCA Premium Grade provision for new office buildings and various discipline consultants based on equipment selection and their loadings. The electrical demand for the Pitt St North OSD is estimated to be approximately 6210kVA (8964Amps)

Works will be required in Castlereagh St to bring new high-voltage and SCADA cabling into the development.

The provision of the new supply is classified as contestable works, managed according to the Accredited Service Provider (ASP) Scheme. A Level 3 design will be developed and submitted to Ausgrid for certification, while construction will be by a Level 1 ASP. The design for works in Castlereagh St will be coordinated with existing services.

An Application for Connection (AFC) has been lodged with Ausgrid and supply offer accepted. Design Information Package (DIP)was received on 31/12/2019.

It is proposed that one (1) Ausgrid Upper Level 3 x 1500kVA chamber substation one Level 9 (with corresponding HV control point located in Basement Level One) and one 3 x 1500kVA basement chamber substation on Basement Level 1 be installed to supply to the development in line with the conditions of the Ausgrid DIP.

In addition, low voltage direct distributor will be provided from Basement Chamber Substation to the private termination enclosure for Masonic Club in accordance with the site specific requirements outlined in the DIP.

The Level 3 design will be completed as part of the Pitt St OSD North Electrical Services scope.

4.2 Communications Services

The Pitt St North OSD will be connected to the NBN to provide telephone and data services. Review of the NBN Rollout service maps indicates that NBN Fibre to the Curb (FTTC) service is available for this development. An Application to Connect will be lodged once the building preliminary spatial are finalised and the locations of the Building Distributor rooms have been finalised.

It is anticipated that four 100mm conduits per diverse path (proposed building lead-ins via two diverse pathways) will be provided from a cable pit in the street into the OSD for connection of NBN and other carrier services.

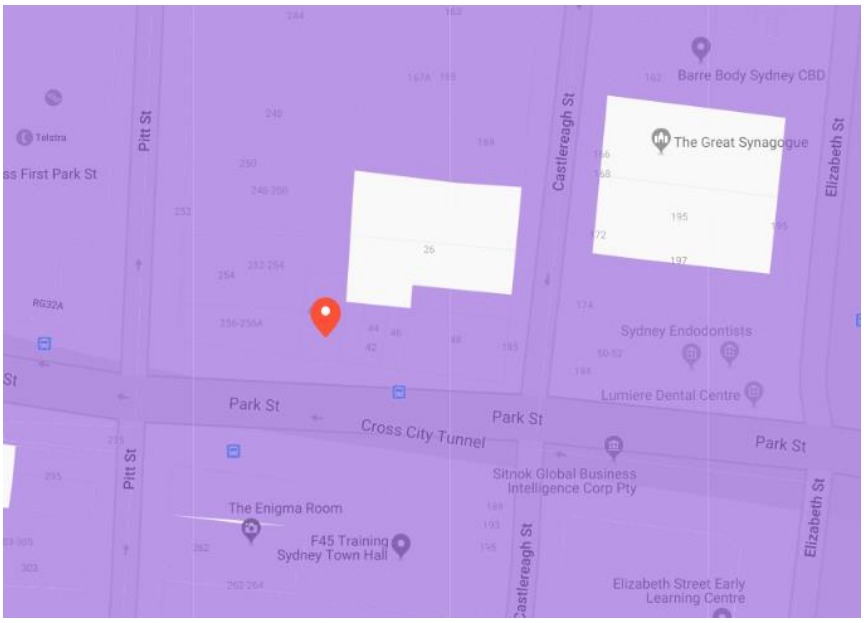


Figure 20 – NBN Rollout Map (captured 4th December 2019).

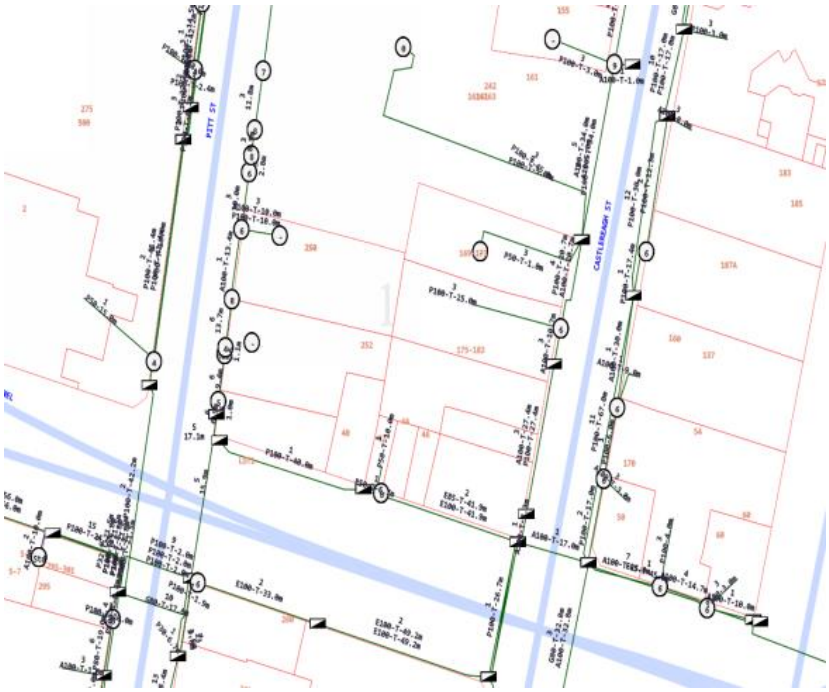


Figure 21 – NBN DBYD Extract

5 Consultation History

The following is a summary of the consultation with utilities to date:

Dial Before You Dig (DBYD)

- A DYBD application was lodged on the 21th November 2019
- DYBD application responses reviewed on the 22nd November 2019
- DYBD to be renewed prior to construction

Ausgrid

- The Ausgrid connection application was lodged on the lodged on the 25th October 2019
- Ausgrid issued an offer for application of connection on the 29th October 2019
- Application of connection accepted 21st November 2019
- Design Information Packaged received on the 31st of December 2019

NBN

- NBN asset reviewed on the 22th November 2019 as part of the DYBD application responses
- Application for Connection to be lodged once building spatial are finalised and Building Distributor room locations are finalised

Telstra, Optus, Vodaphone, TPG

- The major mobile carriers will be consulted during design development to determine the lead DAS provider and confirm requirements for the site

Sydney Metro and Transport for NSW

- Ongoing consultation through the design process

Appendix A Site Survey

Veris Drawing: SMCSWSPS-VER-OSN-SR-DWG-00001-B1

RPS Drawing: PR132497-18-Pitt ST NORTH-001-A

ISSUE	DATE	AMENDMENT	BY

TYPICAL NOTES:

1. ORIGIN OF LEVELS PM 81016, R.L.25.337 (A.H.D.)
2. BEARINGS ARE ON MGA NORTH.
3. NO BOUNDARY SURVEY HAS BEEN UNDERTAKEN.
4. BEARINGS & DISTANCES HAVE BEEN COMPILED FROM TITLE AND/OR DEED INFORMATION SUPPLIED BY DEPARTMENT OF LANDS NSW.
5. RELATIONSHIP OF IMPROVEMENTS AND DETAIL TO BOUNDARIES IS DIAGRAMMATIC ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
6. SERVICES SHOWN ARE BASED ON VISIBLE SURFACE INDICATORS EVIDENT AT THE DATE OF SURVEY AND THE RELEVANT SERVICE DIAGRAMS OF THE VARIOUS AUTHORITIES. ALL SERVICE MUST BE VERIFIED ON SITE PRIOR TO ANY WORK BEING UNDERTAKEN. VERIS AUSTRALIA PTY LTD BEAR NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE SERVICES SHOWN HEREON.
7. RIDGE, EAVE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY AN INDIRECT METHOD AND ARE ACCURATE FOR PLANNING PURPOSES ONLY.
8. ADJOINING BUILDINGS AND DWELLINGS HAVE BEEN PLOTTED FOR DIAGRAMMATIC PURPOSES ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
9. THE DIAMETER (Ø), SPREAD (S) & HEIGHT (H) OF EACH TREE IS INDICATIVE ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
10. CONTOURS ARE AN INDICATION OF THE TOPOGRAPHY ONLY. SPOT LEVELS SHOULD BE USED IF DETAILED DESIGN IS TO BE UNDERTAKEN.
11. CONTOUR INTERVAL 0.20 METRE.

LEGEND OF TYPICAL CODES

AE	– ARCHITECTURAL EMBELLISHMENT	MUD	– METAL LID
AP	– ALIGNMENT PIN	NS	– NATURAL SURFACE
AWN	– AWNING	OCC	– STRUCTURE
BALC	– BALCONY	OPT	– OPTUS PIT
BAWN	– BOTTOM OF AWNING	PC	– PRAM CROSSING
BCH	– BOTTOM OF CHIMNEY	PED	– PEDESTRIAN CROSSING
BD	– BOTTOM OF DOOR	PERG	– PERGOLA
BDY	– BOUNDARY	PA	– PERMANENT MARK
BF	– BOTTOM OF FENCE	PP	– PATH
BR	– BRICK RACK	ROK	– ROCK
BIT	– BITUMEN	RLWY	– RAILWAY
BK	– BOTTOM OF KERB	RM	– REFERENCE MARK
BLD	– BUILDING	RR	– ROOF RIDGE
BM	– BENCH MARK	RSN	– CONCRETE NAIL
BOL	– BOLLARD	SEW	– SEWER
BR	– BOTTOM OF ROCK	SHR	– SHRUB
BRK	– BRICK	SIP	– SEWER INSPECTION PIT
BRW	– BOTTOM OF RETAINING WALL	SLH	– SEWER LAMP HOLE
BS	– BOTTOM OF STEPS	SMH	– SEWER MANHOLE
BW	– BOTTOM OF WALL	SP	– SIGN POST
BWIN	– BOTTOM OF WINDOW	SSM	– STATE SURVEY MARK
CHIM	– CHIMNEY	SV	– STOP VALVE
CL	– CENTRELINE	SW	– STORM WATER
CLD	– CONCRETE LID	TARCH	– TOP OF ARCH
COL	– COLUMN	TAWN	– TOP OF AWNING
COM	– COMMUNICATIONS PIT	TB	– TOP OF BANK
CONC	– CONCRETE	TBX	– TELSTRA BOX
CPT	– CARPORT	TCH	– TOP OF CHIMNEY
D	– DOOR	TD	– TOP OF DOOR
DD	– DISH DRAIN	TEL	– TELSTRA PIT
DH	– DRILL HOLE	TELP	– TELSTRA PILLAR
DHW	– DRILL HOLE & WINGS	TF	– TOP OF FENCE
DWY	– DRIVEWAY	TG	– TOP OF GUTTER
EB	– EDGE OF BITUMEN	THR	– TOP OF HANDRAIL
EBOX	– ELECTRICITY BOX	TI	– TRAFFIC ISLAND
EC	– EDGE OF CONCRETE	TK	– TOP OF KERB
ED	– EDGE OF DOOR	TL	– TRAFFIC LIGHT
EG	– EDGE OF GARDEN	TP	– TOP OF PARAPET
ELEC	– ELECTRICITY PIT	TR	– TREE
EP	– EDGE OF PATH	TRF	– TOP OF ROOF
ER	– EDGE OF ROAD	TRK	– TOP OF ROCK
FCE	– FENCE	TRW	– TOP OF RETAINING WALL
FL	– FLOOR LEVEL	TS	– TOP OF STEPS
FFL	– FINISHED FLOOR LEVEL	TW	– TOP OF WALL
FP	– FENCE POST	TWIN	– TOP OF WINDOW
GD	– GLASS DOOR	US	– UNDERSIDE
GL	– GROUND LEVEL	UAWN	– UNDERSIDE OF AWNING
GM	– GAS METER	UKS	– UNKNOWN SERVICE
HPG	– HIGH POWERED GAS	USB	– UNDERSIDE OF BEAM
HR	– HANDRAIL	USC	– UNDERSIDE OF CEILING
HYD	– HYDRANT	USE	– UNDERSIDE OF EAVE
IL	– INVERT LEVEL	USG	– UNDERSIDE OF GUTTER
K	– KERB	V	– VENT
LIN	– LINTEL	VER	– VERANDAH
LW	– LIGHT WELL	VC	– VEHICLE CROSSING
MW	– MONITORING WELL	W	– WINDOW
MH	– MANHOLE	WM	– WATER METER

LEGEND OF TYPICAL SERVICES

C	– COMMUNICATIONS CABLE	RW	– RECYCLED WATER
CSW	– CSO/MAC STORMWATER PIPE	RW	– RISING MAIN
E	– UNDERGROUND ELECTRICITY CABLES	RMS	– ROADS & MARITIME SERVICES
AC	– AO – UNDERGROUND ELECTRICITY & OPTUS CABLES	S	– SEWER
FS	– FIRE SERVICE	SO	– SEWER OUTFALL
G	– GAS LINE	ST	– SHARED TRENCH
GE	– GAS LINE & ELECTRICITY CABLES	SW	– STORM WATER
NBN	– NATIONAL BROAD BAND CABLES	SW	– CK – STORMWATER CREEK
NG	– NATURAL GAS LINE	T	– TELSTRA CABLES
OH	– OVERHEAD CABLES	TC	– TELSTRA & GAS CABLES
OPT	– OPTUS CABLE	U	– UNKNOWN SERVICE
PE	– PRIVATE ELECTRICITY	VO	– VODUS CABLES
PS	– PRIVATE SEWER	VC	– VERIZON CABLES
PW	– PRIVATE WATER	W	– WATER SUPPLY
		WM	– WATER MAIN

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Liability limited by a scheme approved under Professional Standards Legislation

DIAL BEFORE YOU DIG 1100 The Essential First Step

REDUCTION RATIO 1 : 200

0 2 4 6 8 10 12 14 16 18 20

LENGTHS ARE IN METRES

CLIENT: GROCON (PITT ST) DEVELOPMENTS

TITLE No: 10/1255507	REF:201559
DATUM: A.H.D.	ISSUE:1
DATE OF SURVEY: 25.11.19	ISSUE DATE:29.11.19
SURVEYOR: PH	SHEET SIZE: B1
DRAFTER: SC	SHEET 1 OF 4 SHEETS

PLAN OF DETAIL & LEVELS AT 'METRO STATION NORTH' PITT STREET SYDNEY

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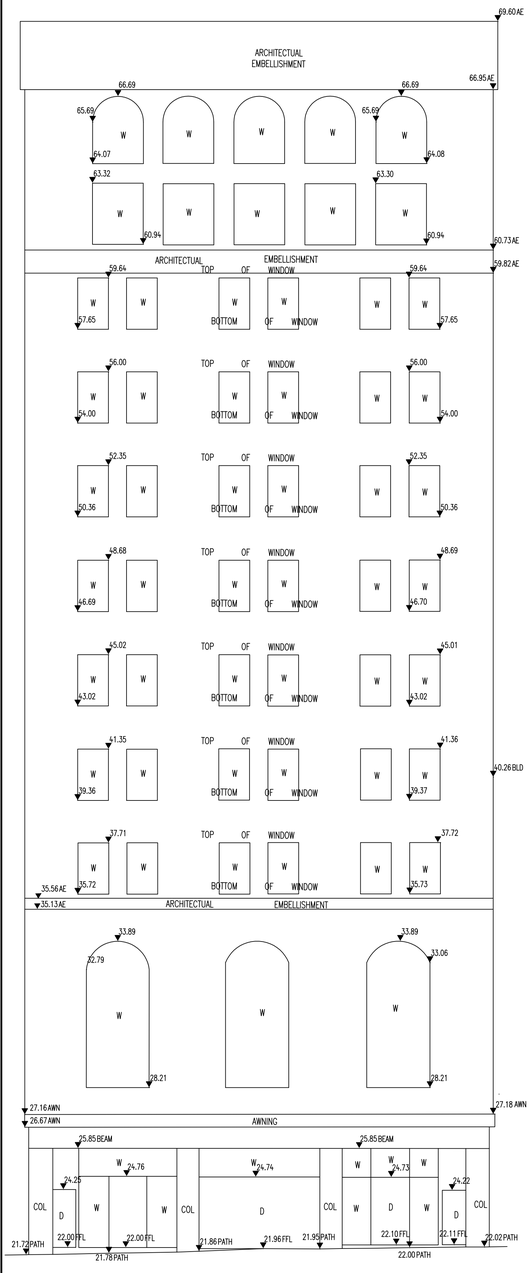
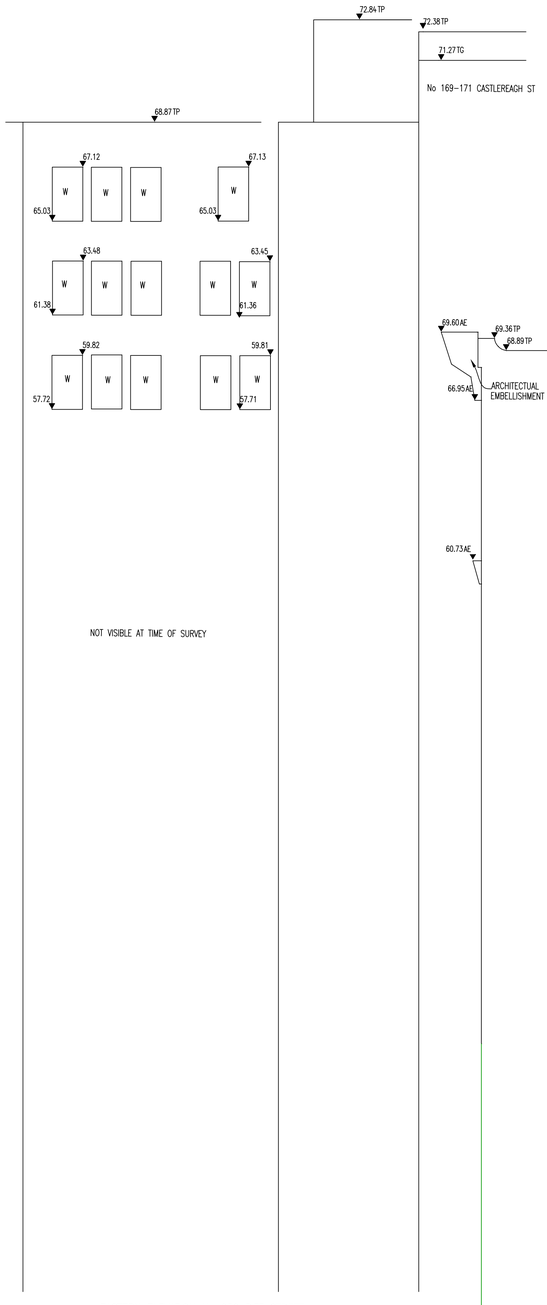


WESTERN ELEVATION No 250 PITT STREET



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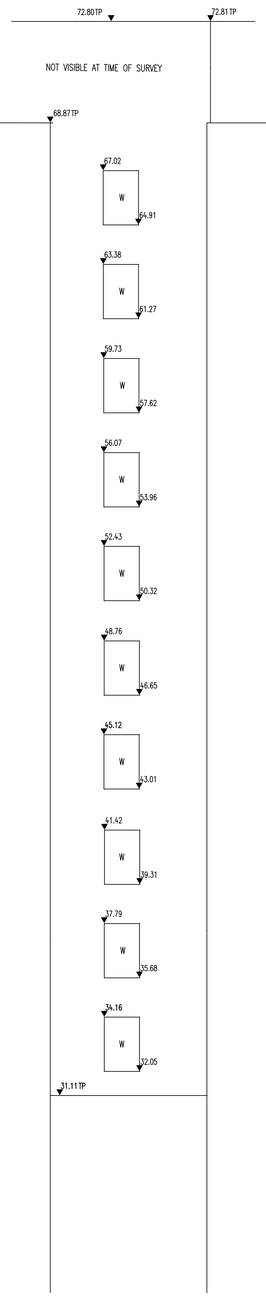
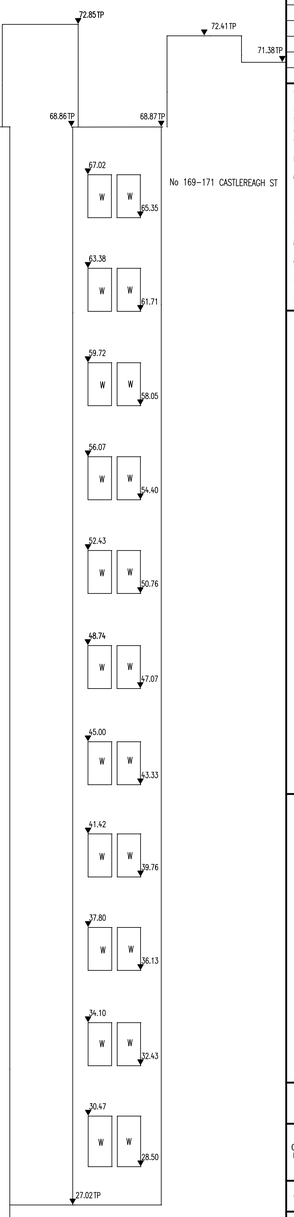


NOT VISIBLE AT TIME OF SURVEY



SOUTHERN ELEVATION No 250 PITT STREET

ISSUE	DATE	AMENDMENT	BY

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10. CONTOURS ARE AN INDICATION OF THE TOPOGRAPHY ONLY. SPOT LEVELS SHOULD BE USED IF DETAILED DESIGN IS TO BE UNDERTAKEN.
11. CONTOUR INTERVAL 0.20 METRE.

LEGEND OF TYPICAL CODES

AE	ARCHITECTURAL EMBELLISHMENT	MUD	METAL LID
AP	ALIGNMENT PIN	NS	NATURAL SURFACE
AWN	AWNING	OCC	STRUCTURE
BALC	BALCONY	OPT	OPTUS PIT
BAWN	BOTTOM OF AWNING	PC	PRAM CROSSING
BCH	BOTTOM OF CHIMNEY	PED	PEDESTRIAN CROSSING
BD	BOTTOM OF DOOR	PERG	PERGOLA
BDY	BOUNDARY	PA	PERMANENT MARK
BF	BOTTOM OF FENCE	PP	PATH
BR	BIKE RACK	RCK	ROCK
BIT	BITUMEN	RLWY	RAILWAY
BK	BOTTOM OF KERB	RM	REFERENCE MARK
BLD	BUILDING	RR	ROOF RIDGE
BM	BENCH MARK	RSN	CONCRETE NAIL
BOL	BOLLARD	SEW	SEWER
BR	BOTTOM OF ROCK	SHR	SHRUB
BRK	BRICK	SIP	SEWER INSPECTION PIT
BRW	BOTTOM OF RETAINING WALL	SLH	SEWER LAMP HOLE
BS	BOTTOM OF STEPS	SMH	SEWER MANHOLE
BW	BOTTOM OF WALL	SP	SIGN POST
BWIN	BOTTOM OF WINDOW	SSM	STATE SURVEY MARK
CHIM	CHIMNEY	SV	STOP VALVE
CL	CENTRELINE	SW	STORM WATER
CLD	CONCRETE LID	TARCH	TOP OF ARCH
COL	COLUMN	TAWN	TOP OF AWNING
COM	COMMUNICATIONS PIT	TB	TOP OF BANK
CONC	CONCRETE	TBX	TELSTRA BOX
CPT	CARPORT	TCH	TOP OF CHIMNEY
D	DOOR	TD	TOP OF DOOR
DD	DISH DRAIN	TEL	TELSTRA PIT
DH	DRILL HOLE	TELP	TELSTRA PILLAR
DHW	DRILL HOLE & WINGS	TF	TOP OF FENCE
DWY	DRIVEWAY	TG	TOP OF GUTTER
EB	EDGE OF BITUMEN	THR	TOP OF HANDRAIL
EBOX	ELECTRICITY BOX	TI	TRAFFIC ISLAND
EC	EDGE OF CONCRETE	TK	TOP OF KERB
ED	EDGE OF DOOR	TL	TRAFFIC LIGHT
EG	EDGE OF GARDEN	TP	TOP OF PARAPET
ELEC	ELECTRICITY PIT	TR	TREE
EP	EDGE OF PATH	TRF	TOP OF ROOF
ER	EDGE OF ROAD	TRK	TOP OF ROCK
FCE	FENCE	TRW	TOP OF RETAINING WALL
FL	FLOOR LEVEL	TS	TOP OF STEPS
FFL	FINISHED FLOOR LEVEL	TW	TOP OF WALL
FP	FENCE POST	TWIN	TOP OF WINDOW
GD	GLASS DOOR	US	UNDERSIDE
GL	GROUND LEVEL	UAWN	UNDERSIDE OF AWNING
GM	GAS METER	UKS	UNKNOWN SERVICE
HPG	HIGH POWERED GAS	USB	UNDERSIDE OF BEAM
HR	HANDRAIL	USC	UNDERSIDE OF CEILING
HYD	HYDRANT	USE	UNDERSIDE OF EAVE
IL	INVERT LEVEL	USG	UNDERSIDE OF GUTTER
K	KERB	V	VENT
LIN	LINTEL	VER	VERANDAH
LW	LIGHT WELL	VC	VEHICLE CROSSING
MW	MONITORING WELL	W	WINDOW
MH	MANHOLE	WM	WATER METER

LEGEND OF TYPICAL SERVICES

C	COMMUNICATIONS CABLE	RW	RECYCLED WATER
CSWP	CERAMIC STORMWATER PIPE	RM	RISING MAIN
E	UNDERGROUND ELECTRICITY CABLES	RMS	ROADS & MARITIME SERVICES
AE AO	UNDERGROUND ELECTRICITY & OPTUS CABLES	S	SEWER
FS	FIRE SERVICE	SO	SEWER OUTFALL
G	GAS LINE	ST	SHARED TRENCH
GE	GAS LINE & ELECTRICITY CABLES	SW	STORM WATER
NBN	NATIONAL BROAD BAND CABLES	SW CK	STORMWATER CREEK
NG	NATURAL GAS LINE	T	TELSTRA CABLES
OH	OVERHEAD CABLES	TG	TELSTRA & GAS CABLES
OPT	OPTUS CABLE	U	UNKNOWN SERVICE
PE	PRIVATE ELECTRICITY	VO	VODUS CABLES
PS	PRIVATE SEWER	VR	VERIZON CABLES
PW	PRIVATE WATER	W	WATER SUPPLY
		WM	WATER MAIN

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DIAL BEFORE YOU DIG 1100 The Essential First Step

REDUCTION RATIO 1 : 100

0 1 2 3 4 5 6 7 8 9 10

LENGTHS ARE IN METRES

CLIENT: GROCON (PITT ST) DEVELOPMENTS

TITLE No: 10/1255507	REF: 201559
DATUM: A.H.D.	ISSUE: 1
DATE OF SURVEY: 25.11.19	ISSUE DATE: 29.11.19
SURVEYOR: PH	SHEET SIZE: B1
DRAFTER: SC	SHEET 4 OF 4 SHEETS

PLAN OF DETAIL & LEVELS AT 'METRO STATION NORTH' PITT STREET SYDNEY

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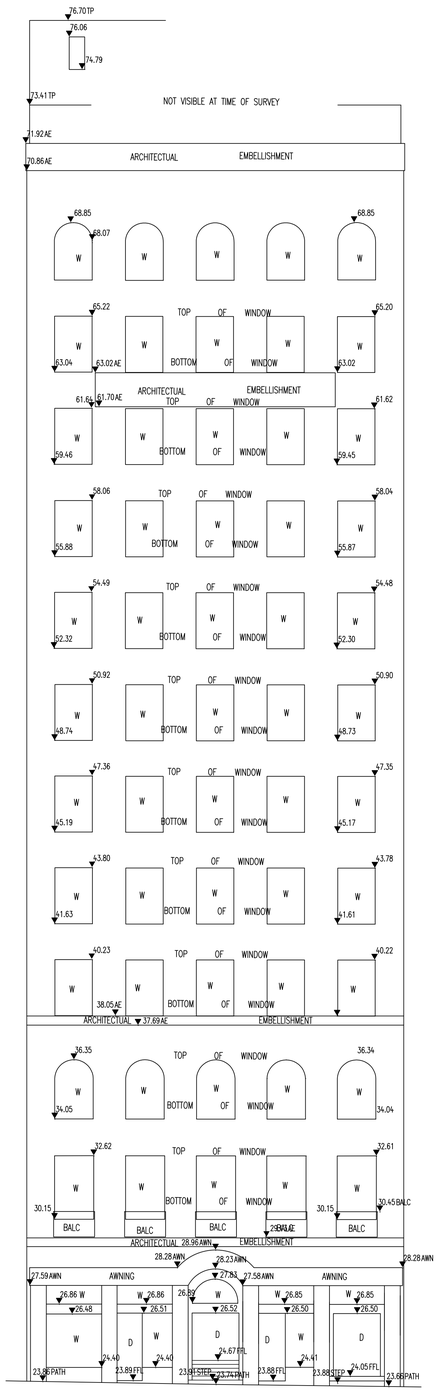
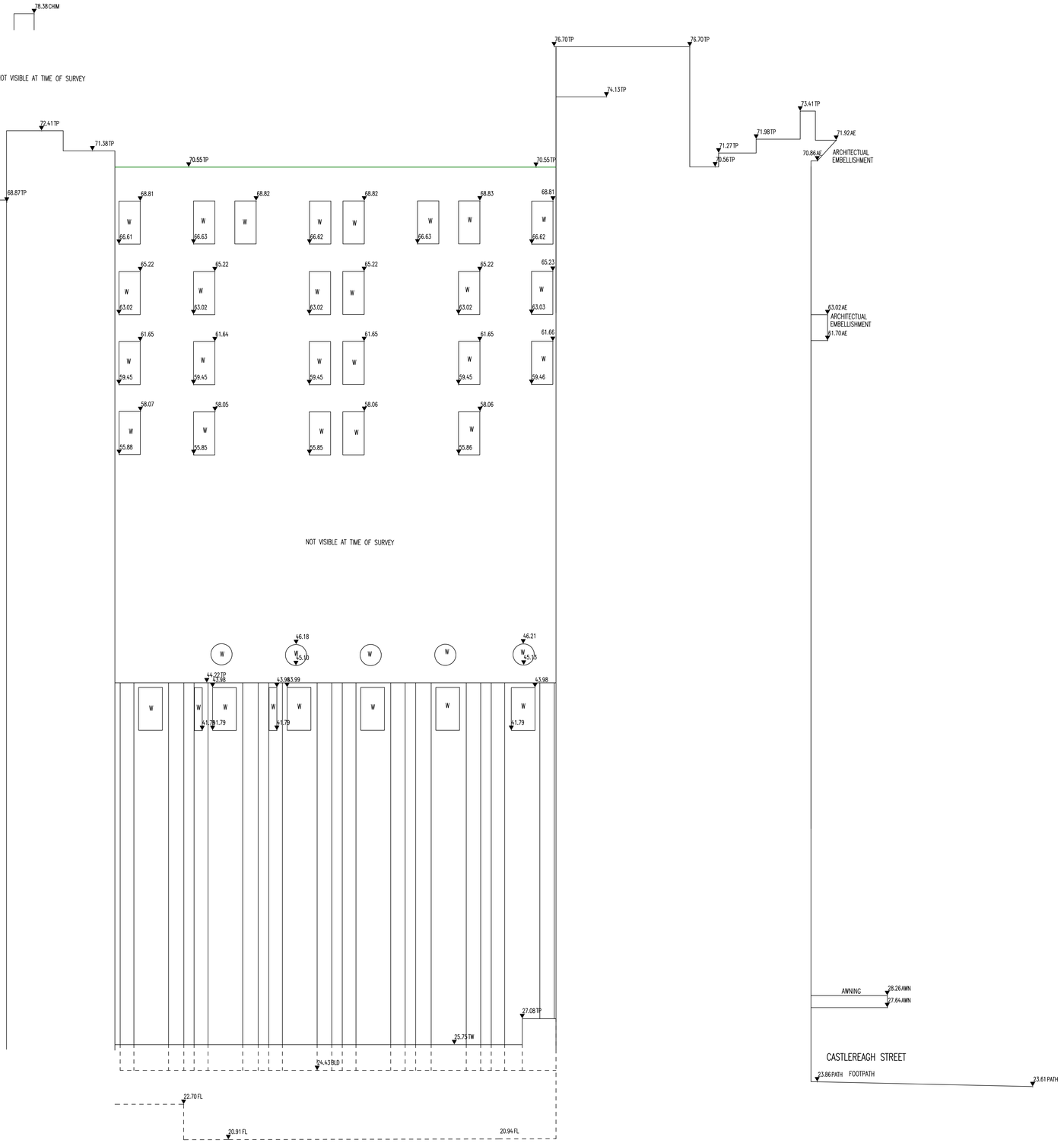


EASTERN ELEVATION No 169-171 CASTLEREAGH STREET



SOUTHERN ELEVATION No 169-171 CASTLEREAGH STREET

ISSUE	DATE	AMENDMENT	BY

TYPICAL NOTES:

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11. CONTOUR INTERVAL 0.20 METRE.

LEGEND OF TYPICAL CODES

AE	– ARCHITECTURAL EMBELLISHMENT	MUD	– METAL LID
AP	– ALIGNMENT PIN	NS	– NATURAL SURFACE
AWN	– AWNING	OCC	– STRUCTURE
BALC	– BALCONY	OPT	– OPTUS PIT
BAWN	– BOTTOM OF AWNING	PC	– PRAM CROSSING
BCH	– BOTTOM OF CHIMNEY	PED	– PEDESTRIAN CROSSING
BD	– BOTTOM OF DOOR	PERG	– PERGOLA
BDY	– BOUNDARY	PA	– PERMANENT MARK
BF	– BOTTOM OF FENCE	PP	– PATH
BR	– BIKE RACK	RCK	– ROCK
BIT	– BITUMEN	RLWY	– RAILWAY
BK	– BOTTOM OF KERB	RM	– REFERENCE MARK
BLD	– BUILDING	RR	– ROOF RIDGE
BM	– BENCH MARK	RSN	– CONCRETE NAIL
BOL	– BOLLARD	SEW	– SEWER
BR	– BOTTOM OF ROCK	SHR	– SHRUB
BRK	– BRICK	SIP	– SEWER INSPECTION PIT
BRW	– BOTTOM OF RETAINING WALL	SLH	– SEWER LAMP HOLE
BS	– BOTTOM OF STEPS	SMH	– SEWER MANHOLE
BW	– BOTTOM OF WALL	SP	– SIGN POST
BWIN	– BOTTOM OF WINDOW	SSM	– STATE SURVEY MARK
CHIM	– CHIMNEY	SV	– STOP VALVE
CL	– CENTRELINE	SW	– STORM WATER
CLID	– CONCRETE LID	TARCH	– TOP OF ARCH
COL	– COLUMN	TAWN	– TOP OF AWNING
COM	– COMMUNICATIONS PIT	TB	– TOP OF BANK
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CPT	– CARPORT	TCH	– TOP OF CHIMNEY
D	– DOOR	TD	– TOP OF DOOR
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DH	– DRILL HOLE	TELP	– TELSTRA PILLAR
DHW	– DRILL HOLE & WINGS	TF	– TOP OF FENCE
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IL	– INVERT LEVEL	USG	– UNDERSIDE OF GUTTER
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LW	– LIGHT WELL	VC	– VEHICLE CROSSING
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LEGEND OF TYPICAL SERVICES

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CSMP	– CERAMIC STORMWATER PIPE	RM	– RISING MAIN
E	– UNDERGROUND ELECTRICITY CABLES	RMS	– ROADS & MARITIME SERVICES
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1100
www.1100.com.au
The Essential First Step

REDUCTION RATIO 1 : 100

0 1 2 3 4 5 6 7 8 9 10

LENGTHS ARE IN METRES

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TITLE No: 10/1255507	REF:201559
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ISSUE	DATE	AMENDMENT	BY

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7. RIDGE, EAVE & GUTTER HEIGHTS HAVE BEEN OBTAINED BY AN INDIRECT METHOD AND ARE ACCURATE FOR PLANNING PURPOSES ONLY.
8. ADJOINING BUILDINGS AND DWELLINGS HAVE BEEN PLOTTED FOR DIAGRAMMATIC PURPOSES ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
9. THE DIAMETER (Ø), SPREAD (S) & HEIGHT (H) OF EACH TREE IS INDICATIVE ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
10. CONTOURS ARE AN INDICATION OF THE TOPOGRAPHY ONLY. SPOT LEVELS SHOULD BE USED IF DETAILED DESIGN IS TO BE UNDERTAKEN.
11. CONTOUR INTERVAL 0.20 METRE.

LEGEND OF TYPICAL CODES

AE	ARCHITECTURAL EMBELLISHMENT	MUD	METAL LID
AP	ALIGNMENT PIN	NS	NATURAL SURFACE
AWN	AWNING	OCC	STRUCTURE
BALC	BALCONY	OPT	OPTUS PIT
BARR	BOTTOM OF AWNING	PC	PRAM CROSSING
BCH	BOTTOM OF CHIMNEY	PED	PEDESTRIAN CROSSING
BD	BOTTOM OF DOOR	PERG	PERGOLA
BDY	BOUNDARY	PA	PERMANENT MARK
BF	BOTTOM OF FENCE	PP	PATH
BR	BIKE RACK	RCK	ROCK
BIT	BITUMEN	RLWY	RAILWAY
BK	BOTTOM OF KERB	RM	REFERENCE MARK
BLD	BUILDING	RR	ROOF RIDGE
BM	BENCH MARK	RSN	CONCRETE NAIL
BOL	BOLLARD	SEW	SEWER
BR	BOTTOM OF ROCK	SHR	SHRUB
BRK	BRICK	SIP	SEWER INSPECTION PIT
BRW	BOTTOM OF RETAINING WALL	SLH	SEWER LAMP HOLE
BS	BOTTOM OF STEPS	SMH	SEWER MANHOLE
BW	BOTTOM OF WALL	SP	SIGN POST
BWIN	BOTTOM OF WINDOW	SSM	STATE SURVEY MARK
CHIM	CHIMNEY	SV	STOP VALVE
CL	CENTRELINE	SW	STORM WATER
CLD	CONCRETE LID	TARCH	TOP OF ARCH
COL	COLUMN	TAWN	TOP OF AWNING
COM	COMMUNICATIONS PIT	TB	TOP OF BANK
CONC	CONCRETE	TBX	TELSTRA BOX
CPT	CARPORT	TCH	TOP OF CHIMNEY
D	DOOR	TD	TOP OF DOOR
DD	DISH DRAIN	TEL	TELSTRA PIT
DH	DRILL HOLE	TELP	TELSTRA PILLAR
DHW	DRILL HOLE & WINGS	TF	TOP OF FENCE
DWY	DRIVEWAY	TG	TOP OF GUTTER
EB	EDGE OF BITUMEN	THR	TOP OF HANDRAIL
EBOX	ELECTRICITY BOX	TI	TRAFFIC ISLAND
EC	EDGE OF CONCRETE	TK	TOP OF KERB
ED	EDGE OF DOOR	TL	TRAFFIC LIGHT
EG	EDGE OF GARDEN	TP	TOP OF PARAPET
ELEC	ELECTRICITY PIT	TR	TREE
EP	EDGE OF PATH	TRF	TOP OF ROOF
ER	EDGE OF ROAD	TRK	TOP OF ROCK
FCE	FENCE	TRW	TOP OF RETAINING WALL
FL	FLOOR LEVEL	TS	TOP OF STEPS
FFL	FINISHED FLOOR LEVEL	TW	TOP OF WALL
FP	FENCE POST	TWIN	TOP OF WINDOW
GD	GLASS DOOR	US	UNDERSIDE
GL	GROUND LEVEL	UAWN	UNDERSIDE OF AWNING
GM	GAS METER	UKS	UNKNOWN SERVICE
HPG	HIGH POWERED GAS	USB	UNDERSIDE OF BEAM
HR	HANDRAIL	USC	UNDERSIDE OF CEILING
HYD	HYDRANT	USE	UNDERSIDE OF EAVE
IL	INVERT LEVEL	USG	UNDERSIDE OF GUTTER
K	KERB	V	VENT
LIN	LINTEL	VER	VERANDAH
LW	LIGHT WELL	VC	VEHICLE CROSSING
MW	MONITORING WELL	W	WINDOW
MH	MANHOLE	WM	WATER METER

LEGEND OF TYPICAL SERVICES

C	COMMUNICATIONS CABLE	RW	RECYCLED WATER
CSW	CONCRETE STORMWATER PIPE	RW	RISING MAIN
E	UNDERGROUND ELECTRICITY CABLES	RMS	ROADS & MARITIME SERVICES
AC	UNDERGROUND ELECTRICITY & OPTUS CABLES	S	SEWER
FS	FIRE SERVICE	SO	SEWER OUTFALL
G	GAS LINE	ST	SHARED TRENCH
GE	GAS LINE & ELECTRICITY CABLES	SW	STORM WATER
NBN	NATIONAL BROAD BAND CABLES	SW	STORMWATER CREEK
NG	NATURAL GAS LINE	T	TELSTRA CABLES
OH	OVERHEAD CABLES	TC	TELSTRA & GAS CABLES
OPT	OPTUS CABLE	U	UNKNOWN SERVICE
PE	PRIVATE ELECTRICITY	VO	VODUS CABLES
PS	PRIVATE SEWER	VE	VERIZON CABLES
PW	PRIVATE WATER	W	WATER SUPPLY
		WM	WATER MAIN

1. ALL UNDERGROUND SERVICE INFORMATION INCLUSIVE OF GENERAL POSITION AND SURFACE COVER DEPTHS NOTED ON THE PLAN ARE APPROXIMATELY ONLY.
2. ALL UNDERGROUND SERVICE INFORMATION HAS BEEN COMPILED FROM SERVICE AUTHORITY PLANS PROVIDED BY THE AUTHORITIES.
3. THE LOCATION OF SERVICES BETWEEN SURVEYED POINTS (AS INDICATED) HAVE BEEN SHOWN DIAGRAMMATICALLY ONLY USING THE SERVICE DIAGRAMS AS PROVIDED. THE EXACT LOCATION OF THESE SERVICES BETWEEN THE SURVEYED POINTS MUST BE VERIFIED PRIOR TO ANY EXCAVATION OR PILING. NO WARRANTY IS GIVEN AGAINST THE POSSIBILITY OF THE EXISTENCE OF FURTHER UNCHARTED SERVICES.
4. ALL CONTRACTORS, TRADESMEN, BUILDING & PROJECT CONSULTANTS MUST CONTACT THE VARIOUS AUTHORITIES, IN ACCORDANCE WITH STANDARD "DIAL BEFORE YOU DIG" PROCEDURES PRIOR TO UNDERTAKING ANY WORKS WITHIN THE VICINITY OF THE SERVICE LINES TO VERIFY THE POSITION OF THE SERVICE LINES.

Liability limited by a scheme approved under Professional Standards Legislation

DIAL BEFORE YOU DIG 1100 The essential First Step

REDUCTION RATIO 1 : 200

0 2 4 6 8 10 12 14 16 18 20

LENGTHS ARE IN METRES

CLIENT: GROCON (PITT ST) DEVELOPMENTS

TITLE No: 10/1255507	REF:201559
DATUM: A.H.D.	ISSUE:1
DATE OF SURVEY: 25.11.19	ISSUE DATE:29.11.19
SURVEYOR: PH	SHEET SIZE:B1
DRAFTER:SC	SHEET 4 OF 4 SHEETS

PLAN OF DETAIL & LEVELS AT 'METRO STATION NORTH' PITT STREET SYDNEY

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PO Box 1807
Strawberry Hills NSW 2012
t: (02) 92124655
email: surryhills@veris.com.au
web site: www.veris.com.au

NOTE:

(B) EASEMENT FOR OVERHANG 0.13 WIDE (DP 1042711) LIMITED IN HEIGHT TO RL 69.0 AND LIMITED IN DEPTH TO RL 67.0 AHD

(C) EASEMENT FOR OVERHANG 0.14 WIDE (DP 1042711) LIMITED IN HEIGHT TO RL 69.0 AND LIMITED IN DEPTH TO RL 67.0 AHD

FOR OCCUPATION DETAIL SEE SHEET 2 OF DP 1255509

20
D P 1255509
SITE AREA 3150.1m²
'CONSTRUCTION SITE'

PUBLIC UTILITY LEGEND

E ELEC
- CABLE JUNCTION BOX (PEJB)
- CABLE MANHOLE (PEMH)
- DISTRIBUTION FUSE POINT
- POLE - LIGHT (PLPL)
- POLE - POWER (PPPL)
- POLE - POWER & LIGHT (PPLP)
- POWER SERVICE PILLAR - UNDERGROUND (PEUP
- TRANSFORMER CABINET CENTRE (PETC)
- LIGHT WITH OUTREACH (LI)
- EY 100 — HOUSE CONNECTION (EY) (DIA UNK)
- HOUSE CONNECTION (EY) (DIA)
- ED 100 — CONDUIT (ED) (DIA UNK)
- CONDUIT (ED) (DIA)
- EU 100 — LINE-UNDERGROUND (EU) (DIA UNK)
- LINE-UNDERGROUND (EU) (DIA)
- UL 100 — LINE-MINOR TRANSMISSION (UL) (DIA UNK)
- LINE-MINOR TRANSMISSION (UL) (DIA)

E TCS
- TRAFFIC CONTROL SIGNAL (PSGL)
- TRAFFIC SIGNAL CONTROLLER (PSCL)
- TRAFFIC SIGNAL DETECTOR (PSDR)
- TRAFFIC SIGNAL JUNCTION BOX (PSJX)
- TRAFFIC LIGHT WITH OUTREACH (TO)
- TRAFFIC SIGNAL DETECTOR (SD)

E COMMS (COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR (PTDP)
- ABOVE GROUND JOINING POST (PTJP)
- OPTICAL FIBRE JUNCTION BOX (POFJ)
- OPTICAL FIBRE PIT (POFP)
- STD 1.1 m BY 1.1 m MAIN PIT (PTMP)
- TELEPHONE BOX POINT (PTBX)
- TELEPHONE POLE (PTPL)
- TELEPHONE SINGLE CONCRETE PIT (PTSP)
- TELEPHONE TRIPLE CONCRETE PIT (PT3P)
- TELEPHONE TWIN CONCRETE PIT (PTTP)
- OPTICAL FIBRE-UNDERGROUND (OU) (DIA UNK)
- OU 150 — OPTICAL FIBRE-UNDERGROUND (OU) (DIA)
- TELEPHONE LINE (TN) (DIA UNK)
- T 100 — TELEPHONE LINE (TN) (DIA)
- TELEPHONE CONDUIT (TD) (DIA UNK)
- TD 16 — TELEPHONE CONDUIT (TD) (DIA)
- TELEPHONE SUMP (TS)

E GAS
- MANHOLE COVER (PGHL)
- METER (PGMR)
- PIPELINE MARKER (PGPM)
- PIPELINE MARKER - HIGH PRESSURE (PGHM)
- VALVE BOX (PGAS)
- VENT PIPE (PGVP)
- TEST POINT (PGTP)
- HA — ETHANE PIPELINE (HA) (DIA UNK)
- HA 150 — ETHANE PIPELINE (HA) (DIA)
- HOUSE CONNECTION (DG) (DIA UNK)
- DG 150 — HOUSE CONNECTION (DG) (DIA)
- MAIN-HIGH PRESSURE PIPELINE (HG) (DIA UNK)
- HG 150 — MAIN-HIGH PRESSURE PIPELINE (HG) (DIA)
- MAIN-LOW PRESSURE (LG) (DIA UNK)
- LG 100 — MAIN-LOW PRESSURE (LG) (DIA)

E WATR
- AIR VALVE (PWAV)
- EARTH TERMINAL (PWET)
- FIRE HYDRANT (PWFB)
- HYDRANT (PWHY)
- METER (PWMR)
- STOP VALVE (PWSV)
- TAP (PWTP)
- WY — HOUSE CONNECTION (WY) (DIA UNK)
- WY 150 — HOUSE CONNECTION (WY) (DIA)
- WM — MAIN (WM) (DIA UNK)
- W 150 — MAIN (WM) (DIA)

E SWER
- MANHOLE COVER (PSMH)
- VENT PIPE (PSVP)
- LAMPHOLE (PSLH)
- #S (A) — MAIN (SM) (DIA UNK)
- #S150 — MAIN (SM) (DIA)
- SY — HOUSE CONNECTION (SY)
- SY 16 — HOUSE CONNECTION (SY) (DIA)

E DRAIN (STORMWATER)
- DRAINAGE JUNCTION MANHOLE (PDJM)
- GULLY PIT POINT (PGUL)
- INLET TO SUMP (PILT)
- INVERT OF PIPE (PINV)
- TOP OF CONCRETE JUNCTION BOX (PJBX)
- SUBSOIL DRAIN FLUSH POINT (PSFP)
- KERB INLET (KI)
- BOX CULVERT
- DP — DRAINAGE PIT (DP)
- DRAINAGE BOX (DX)
- DRAINAGE PIPE (UU) (DIA UNK)
- #150 — DRAINAGE PIPE (UU) (DIA)

E CULT (CULTURAL)
- SIGN POST (PSIN)
- BOLLARD (AC)
- FL — FLOOR LEVEL
- CB — CORNER OF BUILDING
- PARKING METER (PKME)

E MISC
- GATIC COVER LID (PGAT)
- UNIDENTIFIED POLE (PPOL)
- UNIDENTIFIED SERVICE (PUSR)
- UNIDENTIFIED SERVICE (UP)

SUI QUALITY CLASSIFICATION
- (A) — QUALITY LEVEL A
- (B) — QUALITY LEVEL B
- (C) — QUALITY LEVEL C
- (D) — QUALITY LEVEL D

UTILITY LEGEND

ELECTRICITY (AUSGRID):
AC ASBESTOS CEMENT
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE

GAS (JEMENA):
NB NOMINAL BORE (CAST IRON MAN)
PE POLYETHYLENE

RMS:
GI GALVANISED IRON
HD HEAVY DUTY
PVC POLYVINYL CHLORIDE

TELSTRA & OPTUS:
AC ASBESTOS CEMENT
CONC. CONCRETE
EW EARTHENWARE
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE

WATER (SYDNEY WATER):
CICL CAST IRON CEMENT LINED
DICL DUCTILE IRON CEMENT LINED
GI GALVANISED IRON
PVC POLYVINYL CHLORIDE
VC VITRIFIED CLAY
SCLIBL STEEL CEMENT LINED INTERNAL BITUMEN LINED

FOW FULL OF WATER
FOD FULL OF DIRT
UTO UNABLE TO OPEN
NA NOT ACCESSIBLE
EOT END OF TRACE

NOTES:

1. THIS PLAN SHOWS A REPRESENTATION OF A 3D UTILITY MODEL PR132497-18- Pitt ST NORTH-001-A. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION.
2. ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/PAPER COPY OF THIS PLAN.
3. ALL UTILITIES (EXCEPT GAS) ARE CLASS QL-B UNLESS NOTED OTHERWISE.
4. ALL GAS UTILITIES ARE CLASS QL-C UNLESS NOTED OTHERWISE OR SHOWN AS DIGITISED.
5. RPS UTILITY LOCATION USE DIAL BEFORE YOU DIG (DBYD) AS ONE SOURCE OF INFORMATION ONLY WHEN LOCATING UTILITIES.
6. UTILITY INFORMATION AND CONFIGURATION SUPPLIED FROM ASSET OWNERS (DBYD).
7. SINGLE STRINGS MAY REPRESENT MULTIPLE CABLES, CONDUITS OR PIPES.
8. ELECTRICITY CABLES ARE NOT NECESSARILY ENCLOSED IN CONDUITS AND ARE NOT NECESSARILY COVERED WITH MARKERS, TAPE OR OTHER INDICATORS OF THEIR PRESENCE.
9. NOT ALL HOUSE CONNECTIONS HAVE BEEN LOCATED.
10. IT REMAINS THE RESPONSIBILITY OF THE COMPANY AND/OR THE INDIVIDUAL CONDUCTING PHYSICAL WORKS TO ENSURE AN UP-TO-DATE VERSION OF DIAL BEFORE YOU DIG PLANS IS CONSULTED AND AVAILABLE ON SITE. PHYSICAL WORKS MAY INCLUDE, BUT NOT BE LIMITED TO, EXCAVATING, BORING (HORIZONTAL AND VERTICAL), AND DRILLING.
11. ALL UTILITIES NEED TO BE POTHOLED TO VERIFY LOCATION AND DEPTH IS CORRECT.
12. WHERE POSSIBLE IN THE FIELD, DEPTHS TO INDIVIDUAL SERVICES WERE OBTAINED AND RECORDED. THE DEPTH IS SHOWN AS TEXTURAL NOTATION. HENCE, THE ATTRIBUTE "0.58D" INDICATES A DEPTH TO THE UTILITY OF 580mm.

NOTE ON AS 5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

Quality Levels

This Standard provides a framework for the classification of subsurface utility location and attributed information in terms of specified quality levels. The objective of this Standard is to provide utility owners, operators and locators with a framework for the consistent classification of information concerning subsurface utilities. Project risks related to underground utilities can then be properly managed.

A quality level describes the amount and accuracy of information that is collected or held on a subsurface utility.

There are four quality levels: D, C, B and A

Quality Level D (QL-D) is the lowest of these four quality levels. The attribute information and metadata of a subsurface utility can be compiled from any, or a combination of, the following:

(a) Existing records;
(b) Cursory site inspection;
(c) Anecdotal evidence

Quality Level C (QL-C) is described as a surface feature correlation or an interpretation of the approximate location and attributes of a subsurface utility asset using a combination of existing records (and/or anecdotal evidence) and a site survey of visible evidence. The minimum requirement for Quality Level C is relative spatial position. Information is collected by correlating the survey of visible utility surface features such as marker plates or water hydrants and acquired dial-before-you-dig plans to "draw" a string which shows the approximate position of services.

Quality Level B (QL-B) provides relative subsurface feature location in three dimensions. The minimum requirement for Quality Level B is relative spatial position. Information is collected by designating the horizontal and vertical location of underground utilities by using electromagnetic pipe and cable locators, sondes or flexi-trace, ground penetrating radar and acoustic pulse equipment.

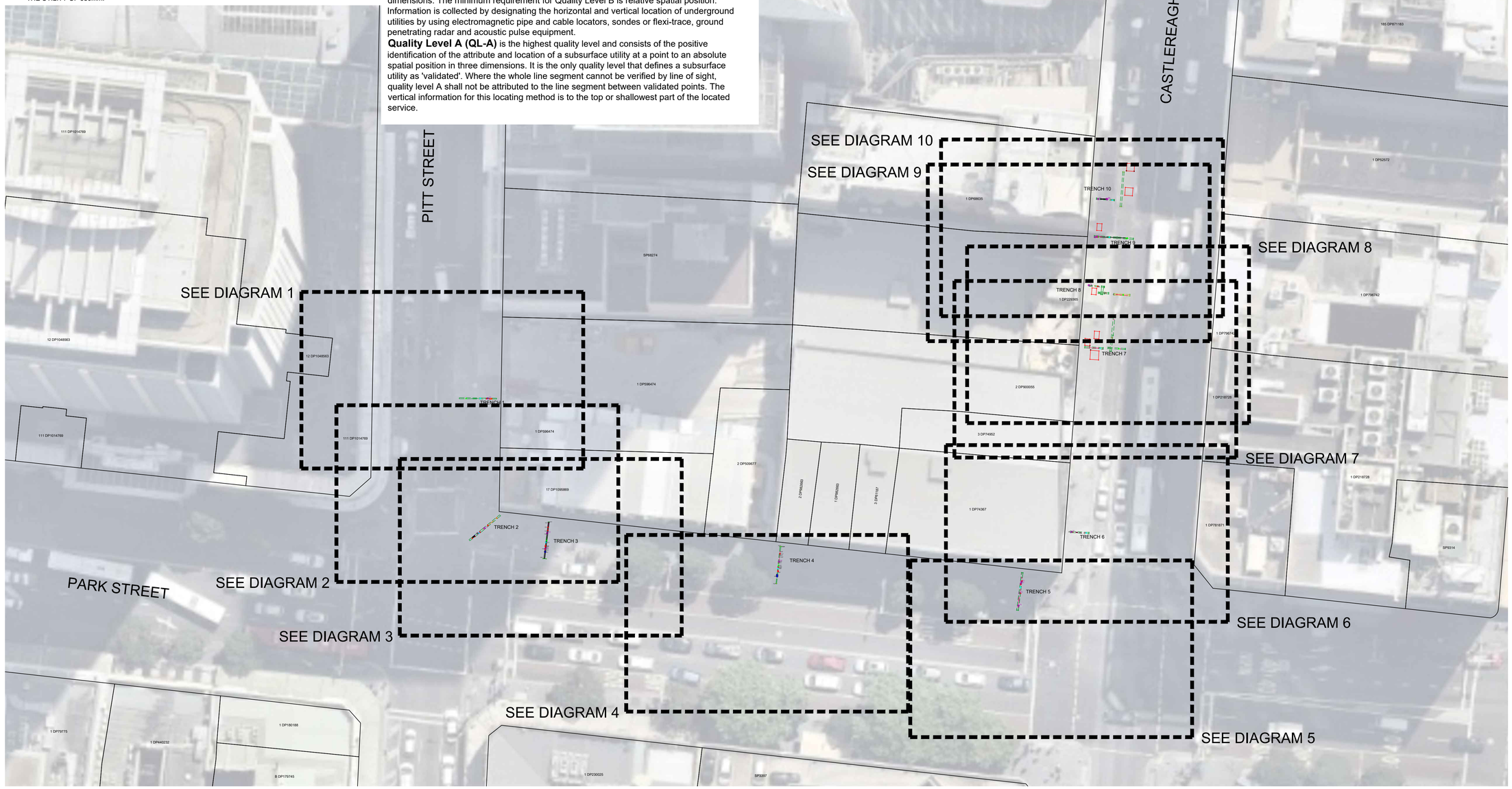
Quality Level A (QL-A) is the highest quality level and consists of the positive identification of the attribute and location of a subsurface utility at a point to an absolute spatial position in three dimensions. It is the only quality level that defines a subsurface utility as 'validated'. Where the whole line segment cannot be verified by line of sight, quality level A shall not be attributed to the line segment between validated points. The vertical information for this locating method is to the top or shallowest part of the located service.

DISCLAIMER:

THIS SURVEY MODEL INCLUDES INFORMATION DESCRIBING THE LOCATION OF SUBTERRANEAN FEATURES WHICH WERE PURPORTED TO EXIST AT THE TIME OF SURVEY.

THIS INFORMATION WAS COMPILED FROM A COMBINATION OF FIELD TECHNIQUES AND AVAILABLE DATA FROM COOPERATING UTILITY AUTHORITIES. WHILST ALL CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS SURVEY MODEL, RPS CANNOT GUARANTEE THAT THE SURVEY MODEL IS WITHOUT FLAW OR OMISSIONS. RPS CANNOT TAKE RESPONSIBILITY OF ANY KIND WHATSOEVER FOR ANY LOSS, DAMAGE OR OTHER CONSEQUENCES WHICH MAY ARISE FROM ANY PERSON RELYING ON ANY THING STATED ON THIS PLAN.

IN PARTICULAR, IT IS RECOMMENDED THAT USERS SATISFY THEMSELVES AS TO THE LOCATION OF SUBTERRANEAN FEATURES SUCH AS UTILITIES WHICH MAY OR MAY NOT BE SHOWN ON THE PLAN.



REVISIONS					
A	22.02.2018	INITIAL PLAN	MJ	MJ	MJ
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:300 @ A1
VERT. SCALE: 1:250 @ A1
COORDINATES: MGA
DATUM: AHD
ORIGIN: ORIGIN
ORIGIN: ORIGIN
6 3 0 6 12 18
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

CLIENT: sydney METRO | city & southwest

SURVEY:	TP	DATE OF SURVEY:	07.02.2019
DRAWN:	JMJ	DATE OF PLAN:	22.02.2019
CHECKED:	TC	DATE LAST SAVED:	22.02.2019
APPROVED:	TC	DATE APPROVED:	22.02.2019

TITLE
SYDNEY METRO CITY & SOUTHWEST UTILITIES INVESTIGATION SURVEY PITT STREET NORTH, SYDNEY

DRAWING No PR132497-18- Pitt ST NORTH-001-A.dwg

JOB No PR132497

ISSUE A

SHEET 1 OF 4 SHEETS

SIZE A1

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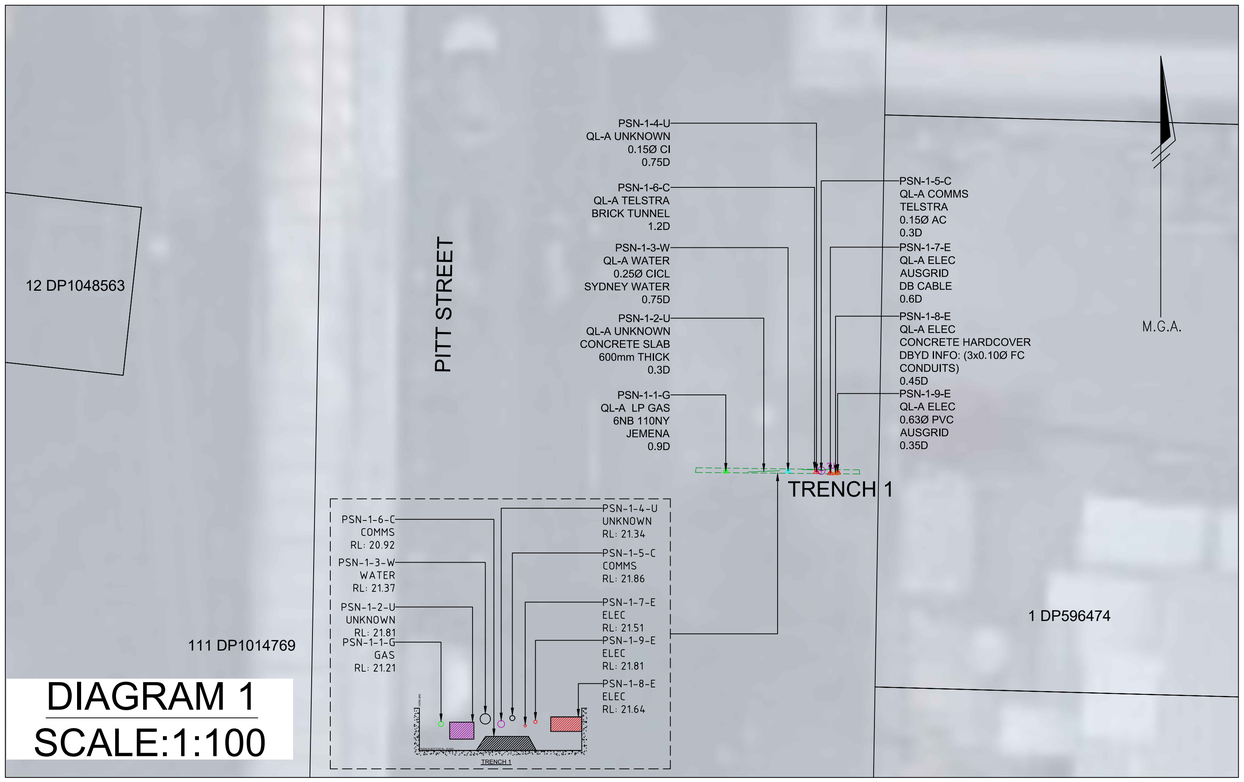

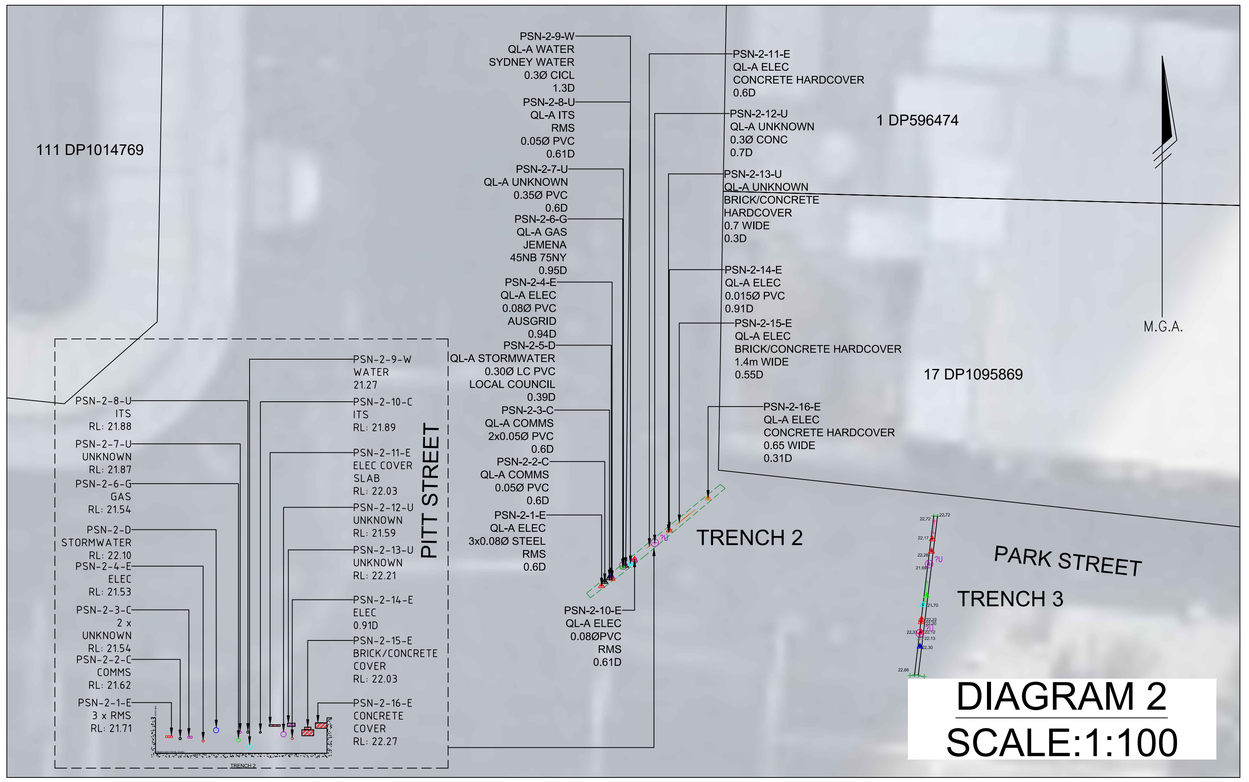

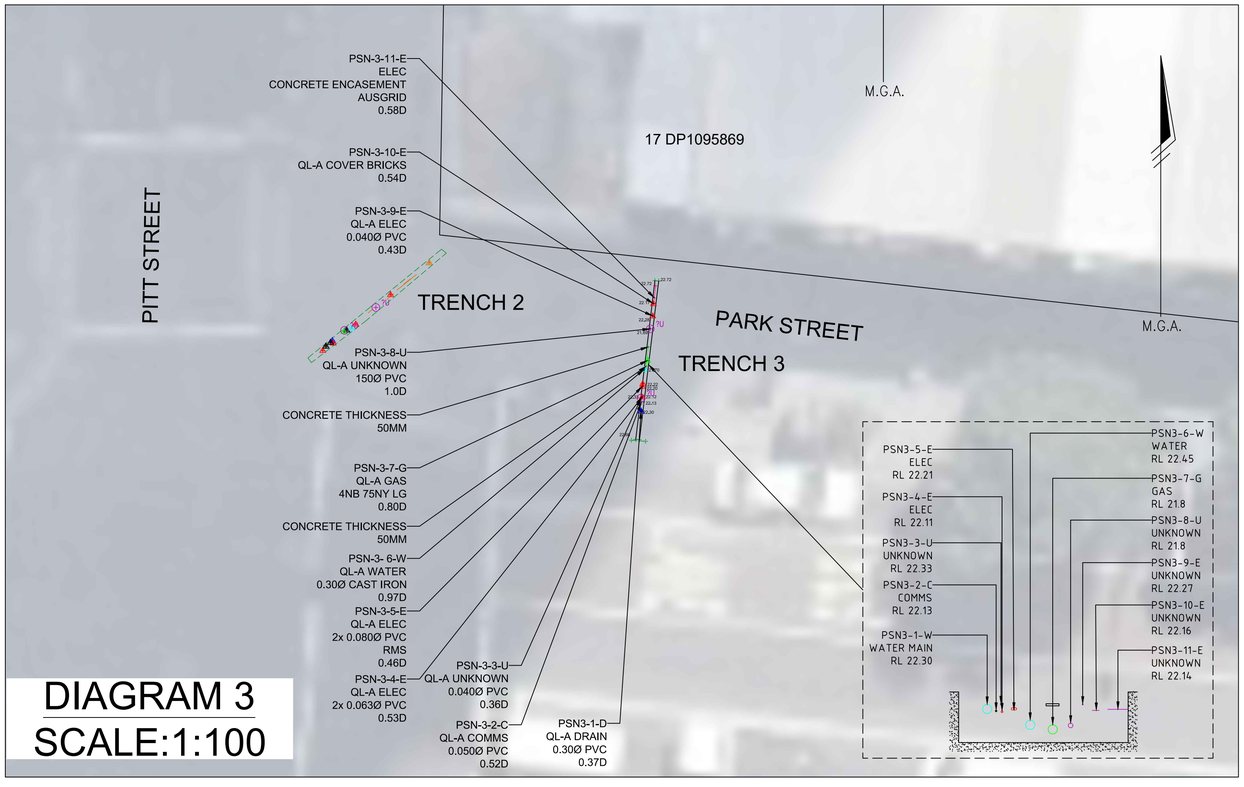

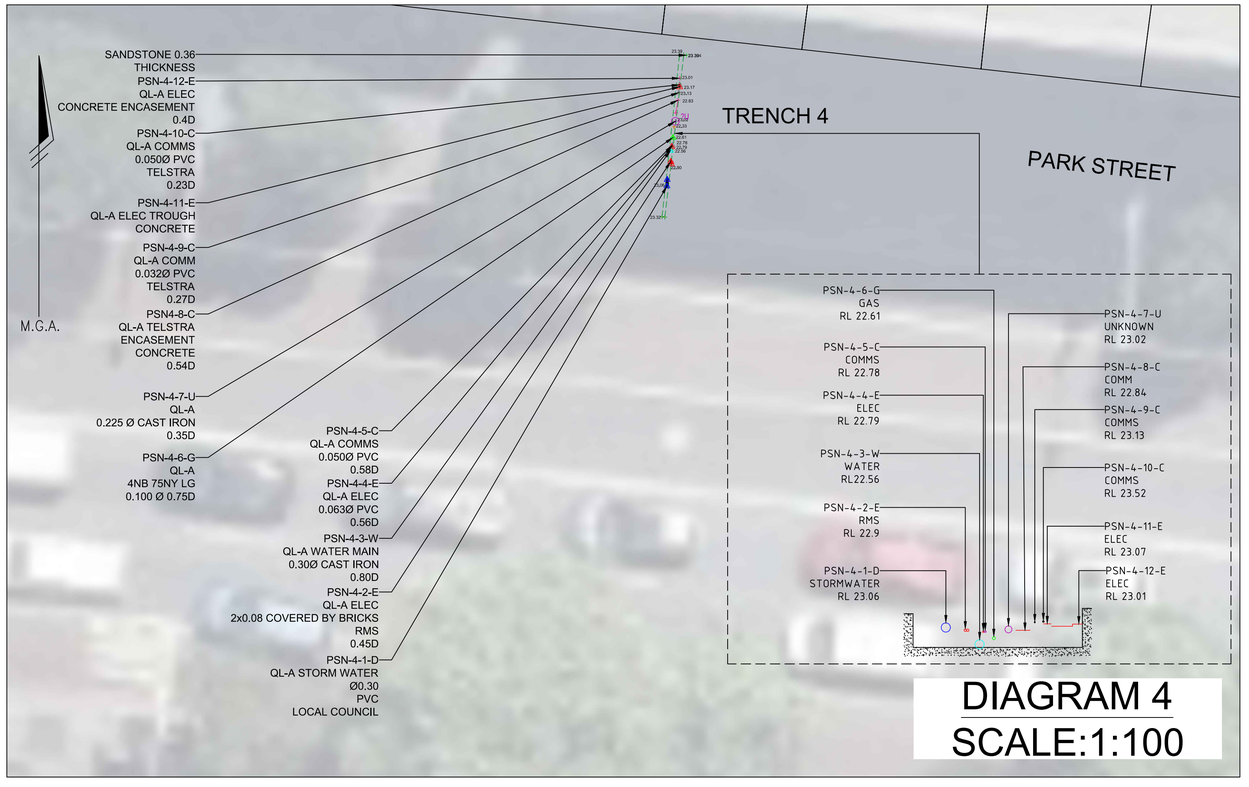

REVISIONS					
A	22.02.2018	INITIAL PLAN	MJ	MJ	MJ
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

■ HORIZ. SCALE: 1:100 @ A1 ■ VERT. SCALE: 1:250 @ A1

■ COORDINATES: MGA ■ DATUM: AHD

■ ORIGIN: ORIGIN ■ ORIGIN: ORIGIN

2 1 0 2 4 6

SCALE IN METRES AT ORIGINAL REDUCTION RATIO

■ NOTES

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■ CLIENT: sydney METRO | city & southwest

■ SURVEY:	TP	DATE OF SURVEY:	07.02.2019
■ DRAWN:	JMJ	DATE OF PLAN:	22.02.2019
■ CHECKED:	TC	DATE LAST SAVED:	**22.02.2019**
■ APPROVED:	TC	DATE APPROVED:	22.02.2019

■ TITLE

SYDNEY METRO CITY & SOUTHWEST UTILITIES INVESTIGATION SURVEY PITT STREET NORTH, SYDNEY

■ DRAWING No PR132497-18- Pitt ST NORTH-001-A.dwg

■ JOB No PR132497 ■ ISSUE A

www.dialbeforeyoudig.com.au DIAL 1100 BEFORE YOU DIG

■ SHEET 2 OF 4 SHEETS ■ SIZE A1

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PSN-5-12-E
QL-A CONCRETE ENCASEMENT AUSGRID 0.51D
TOP OF ENCASEMENT
PSN-5-11-E
QL-A 0.015Ø DIRECT BURIED 0.52D
PSN-5-10-U
QL-A UNKNOWN 0.225Ø CONCRETE 0.64D
PSN-5-9-C
QL-A COMMS 4X0.100Ø AC 0.87D
PSN-5-8-U
QL-A UNKNOWN 0.100Ø CONC 0.75D
PSN-5-7-E
QL-A ELEC 0.063Ø PVC 0.38D
PSN-5-6-W
QL-A WATER MAIN 0.30Ø CICL SYDNEY WATER 0.42D
TOP OF ENCASEMENT
PSN-5-5-C
QL-A COMMS 0.05Ø PVC 0.6D
PSN-5-3-G
QL-A GAS 4NB 75 NY LG 0.6D
PSN-5-4-U
QL-A UNKNOWN 0.063Ø PVC 0.6D
TOP OF ENCASEMENT
PSN-5-2-E
QL-A ELEC Ø0.080 RMS UNDER CONCRETE COVER 0.42D
PSN-5-1-U
QL-A UNKNOWN 0.15Ø VC 0.88D
TOP OF ENCASEMENT

TRENCH 5

PARK STREET

PSN-5-6-W
WATER
RL 23.73
PSN-5-5-C
COMMS
RL 23.47
PSN-5-3-G
GAS
RL 23.25
PSN-5-4-U
UNKNOWN
RL 23.47
PSN-5-2-E
RMS
RL 23.69
PSN-5-1-U
UNKNOWN
RL 23.21
PSN-5-7-E
ELEC
RL 23.74
PSN-5-8-U
UNKNOWN
RL 23.40
PSN-5-9-C
COMMS
RL 23.29
PSN-5-10-U
UNKNOWN
RL 23.52
PSN-5-11-E
ELEC
RL 23.60
PSN-5-12-E
ELEC
RL 23.65

TRENCH 5

M.G.A.

DIAGRAM 5
SCALE:1:100

1 DP74367

TOP OF ENCASEMENT
TRENCH DEPTH
PSN-6-3-C
QL-A COMMS 0.05Ø PVC 0.50D
PSN-6-2-U
QL-A UNKNOWN 0.0150Ø CI 0.6D
PSN-6-1-C
QL-A COMMS 0.100Ø ASBESTOS 0.30D

PSN-6-4-E
QL-A ELEC ENCASEMENT CONCRETE AUSGRID
PSN-6-5-E
QL-A ELEC ENCASEMENT BRICK AUSGRID
PSN-6-6-C
QL-A COMMS 3XØ0.10 ASBESTOS 0.30D
TOP OF ENCASEMENT
PSN-6-7-W
QL-A WATER 0.25Ø CICL SYDNEY WATER 1.0D

CASTLEREAGH STREET

TRENCH 6

PSN-6-3-U
UNKNOWN
RL 23.81
PSN-6-2-U
UNKNOWN
RL 23.73
PSN-6-1-C
COMMS
RL 24.11
PSN-6-5-E
ELEC
RL 23.80
PSN-6-4-E
ELEC
RL 23.52
PSN-6-6-C
COMMS
RL 23.93
PSN-6-7-W
WATER
RL 23.18

TRENCH 5

M.G.A.

1 DP781871

DIAGRAM 6
SCALE:1:100

TRENCH 8

1 DP229365

PSN-7-5-C
QL-A COMMS Ø0.050 0.4D
PSN-7-4-W
QL-A WATER MAIN Ø0.250 CICL SYDNEY WATER 0.6D
PSN-7-3-C
QL-A COMMS BRICKS TELSTRA 0.3D
PSN-7-6-C
QL-A COMMS Ø0.050 0.5D
EXPANSION JOINT 0.015 mm
PSN-7-7-G
QL-A GAS 4NB 75NY CAST IRON JEMENA 0.7D
PSN-7-8-E
QL-A ELEC CONCRETE ENCASEMENT AUSGRID 1.1D
PSN-7-1-E
QL-A ELEC PLASTIC COVER 0.45D
PSN-7-2-E
QL-A ELEC CONCRETE ENCASEMENT 0.47D

TRENCH 7

CASTLEREAGH STREET

PSN-7-6-C
COMMS
RL 23.22
PSN-7-7-G
GAS
RL 23.00
PSN-7-8-E
ELEC
RL 22.60

PSN-7-2-E
ELEC
RL 23.22
PSN-7-1-E
ELEC
RL 23.23
PSN-7-3-C
COMMS
RL 23.39
PSN-7-4-W
WATER MAIN
RL 23.17
PSN-7-5-C
COMMS
RL 23.32

1 DP796742

M.G.A.

2 DP900055

1 DP218728

3 DP74952

DIAGRAM 7
SCALE:1:100

PSN-8-4-C
QL-A COMMS 3x Ø0.1 ASBESTOS TELSTRA 0.31D
PSN-8-3-E
QL-A ELEC ENCASEMENT AUSGRID 0.55D
PSN-8-2-C
QL-A COMMS Ø0.1 ASBESTOS TELSTRA 0.32D
PSN-8-1-U
QL-A UNKNOWN Ø0.1 ASBESTOS 0.23D

TRENCH 8

1 DP229365

PSN-8-2-C
COMMS
RL 23.52
PSN-8-3-E
ELEC
RL 23.41
PSN-8-1-U
UNKNOWN
RL 23.62
PSN-8-4-C
COMMS
RL 23.46

PSN-8-9-E
QL-A ELEC CONCRETE ENCASEMENT AUSGRID 0.96D
PSN-8-10-G
QL-A GAS 4ND 75NY CAST IRON-NYLON 0.7D
PSN-8-5-E
ELEC
RL 23.21

PSN-8-5-E
ELEC
RL 23.21
PSN-8-6-C
COMMS
RL 23.36

TRENCH 7

CASTLEREAGH STREET

PSN-8-7-C
COMMS
RL 23.35
PSN-8-8-U
UNKNOWN
RL 23.13

PSN-8-9-E
ELEC
RL22.82
PSN-8-10-G
GAS
RL 22.93

PSN-8-5-E
QL-A ELEC CONCRETE AUSGRID 0.6D
PSN-8-7-C
QL-A COMMS Ø0.050 PVC OPTIC FIBRE VOCUS 0.45D
PSN-8-6-C
QL-A COMMS Ø0.050 PVC OPTIC FIBRE VOCUS 0.45D
PSN-8-8-U
QL-A UNKNOWN CONCRETE ENCASEMENT 0.65D

2 DP900055

1 DP796742

1 DP218728

DIAGRAM 8
SCALE:1:100

REVISIONS					
A	22.02.2018	INITIAL PLAN	MJ	MJ	MJ
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:100 @ A1
VERT. SCALE: 1:250 @ A1
COORDINATES: MGA
DATUM: AHD
ORIGIN: ORIGIN
ORIGIN: ORIGIN
2 1 0 2 4 6
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

CLIENT: sydney METRO | city & southwest

SURVEY:	TP	DATE OF SURVEY:	07.02.2019
DRAWN:	JMJ	DATE OF PLAN:	22.02.2019
CHECKED:	TC	DATE LAST SAVED:	22.02.2019
APPROVED:	TC	DATE APPROVED:	22.02.2019

TITLE
SYDNEY METRO CITY & SOUTHWEST UTILITIES INVESTIGATION SURVEY PITT STREET NORTH, SYDNEY

DRAWING No PR132497-18- Pitt ST NORTH-001-A.dwg

JOB No PR132497
ISSUE A
SHEET 3 OF 4 SHEETS
SIZE A1

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LEVEL 13 255 PITT STREET SYDNEY NSW 2000
T: 02 8270 8300 F: 02 9248 9810 www.rpsgroup.com.au

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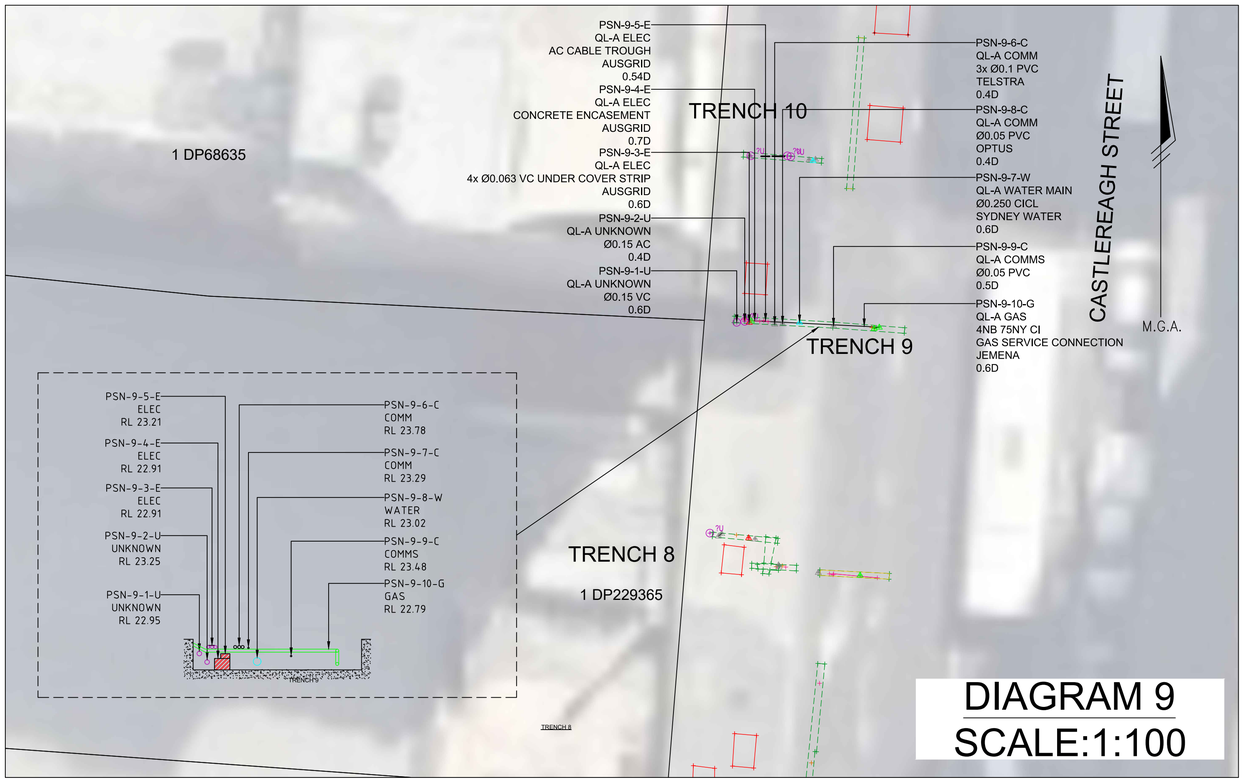

DIAGRAM 9
SCALE:1:100

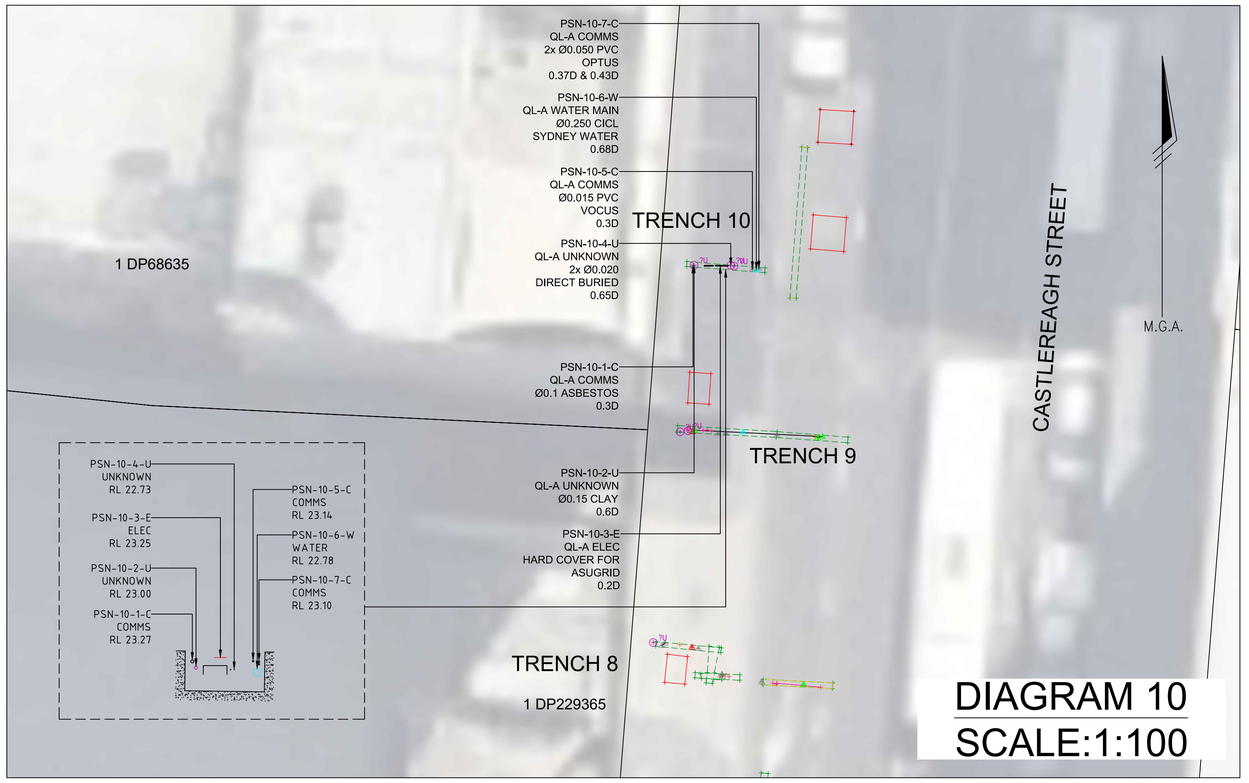

DIAGRAM 10
SCALE:1:100

REVISIONS					
A	22.02.2018	INITIAL PLAN	MJ	MJ	MJ
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

■ HORIZ. SCALE: 1:1000 @ A1
■ VERT. SCALE: 1:250 @ A1
■ COORDINATES: MGA
■ DATUM: AHD
■ ORIGIN: ORIGIN
■ ORIGIN: ORIGIN
20 10 0 20 40 60
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

■ NOTES

■ CLIENT: sydney METRO | city & southwest

■ SURVEY:	TP	DATE OF SURVEY:	07.02.2019
■ DRAWN:	JMJ	DATE OF PLAN:	22.02.2019
■ CHECKED:	TC	DATE LAST SAVED:	22.02.2019
■ APPROVED:	TC	DATE APPROVED:	22.02.2019

■ TITLE
SYDNEY METRO CITY & SOUTHWEST
UTILITIES INVESTIGATION SURVEY
PITT STREET NORTH, SYDNEY

■ DRAWING No PR132497-18- Pitt ST NORTH-001-A.dwg

■ JOB No PR132497
www.dialbeforeyoudig.com.au DIAL 1100 BEFORE YOU DIG

■ ISSUE A

■ SHEET 4 OF 4 SHEETS

■ SIZE A1

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Appendix B Dial Before You Dig (DBYD)

Retrieved 21st November 2019

Job No 18616279

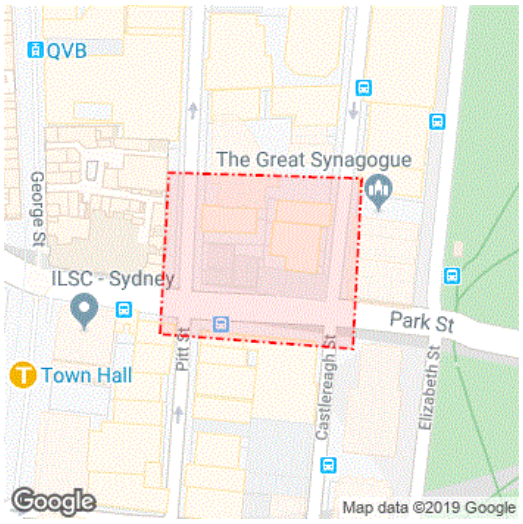
Phone: 1100
www.1100.com.au

Caller Details

Contact:	Ms Yiqing Kong	**Caller Id:**	1880207	**Phone:**	0466830473
Company:	LCI	**Mobile:**	0466830473	**Fax:**	Not Supplied
Address:	Level 4 73 Walker St North Sydney NSW 2060	**Email:**	alison.kong@lciconsultants.com.au		

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



User Reference: Pitt St OSD North
Working on Behalf of: Private

Enquiry Date:	**Start Date:**	**End Date:**
21/11/2019	01/02/2020	01/06/2021

Address:
254 Pitt Street
Sydney NSW 2000

Job Purpose:	**Onsite Activity:**
Excavation	Mechanical Excavation
Location of Workplace:	**Location in Road:**
Both	CarriageWay,Footpath

- Check the location of the dig site is correct. If not submit a new enquiry.
- If the scope of works change, or plan validity dates expire, resubmit your enquiry.
- Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

Notes/Description of Works:

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at **www.1100.com.au**
- **For more information on safe excavation practices, visit www.1100.com.au**

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days.
Additional time should be allowed for information issued by post. It is **your responsibility** to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is **your responsibility** to identify and contact any asset owners not listed here directly.
** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.
# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
92397592	AAPT / PowerTel, NSW	1800786306	NOTIFIED
92397599	AARNet Pty Ltd, Nsw	1300275662	NOTIFIED
92397594	Ausgrid	0249510899	NOTIFIED
92397588	City of Sydney (IMS)	0292659819	NOTIFIED
92397597	Jemena Gas South	1300880906	NOTIFIED
92397600	NBN Co, NswAct	1800626762	NOTIFIED
92397591	Nextgen, NCC - NSW	1800032532	NOTIFIED
92397596	Optus and/or Uecomm, Nsw	1800505777	NOTIFIED
92397593	PIPE Networks, Nsw	1800201100	NOTIFIED
92397589	Roads and Maritime Services	0288370285	NOTIFIED
92397602	Sydney Metro	0421801439	NOTIFIED
92397598	Sydney Water	132092	NOTIFIED
92397595	Telstra NSW, Central	1800653935	NOTIFIED

92397603	Transurban Cross City Tunnel	0292545200	NOTIFIED
92397590	Verizon Business (Nsw)	0294345000	NOTIFIED
92397601	Vocus Communications	0892446114	NOTIFIED

END OF UTILITIES LIST

Response Cover Letter

Date: 21/11/2019

AAPT (PowerTel) Limited
GPO Box 7041 Sydney 2001
Phone: 1800 786 306
A/H: 1800 786 306

To:
Ms Yiqing Kong - Customer ID: 1880207
LCI
Level 4 73 Walker St
North Sydney NSW 2060

Email: alison.kong@lciconsultants.com.au
Phone: 0466830473
Fax: Not Supplied
Mobile: 0466830473



Dear Ms Yiqing Kong

The following is our response to your Dial Before You Dig enquiry.

AAPT ASSETS ARE AFFECTED BY YOUR ENQUIRY 92397592

Sequence Number:	92397592
Location:	254 Pitt Street Sydney NSW 2000
Commencement Date:	01/02/2020

In relation to your enquiry at the above address, AAPT (PowerTel) advises as follows.

The records of AAPT (PowerTel) Limited disclose that there are underground FIBRE OPTIC / TELECOMMUNICATIONS cables in the vicinity of the above enquiry.

Your enquiry has been dispatched to an AAPT (PowerTel) Route Technician who will contact you ASAP with further information regarding the exact location of the AAPT (PowerTel) network.

It is essential that no excavations are undertaken until you have been contacted by an AAPT (PowerTel) Representative. Your local AAPT (PowerTel) Field Representative can be contacted on ph: **0405 133 156**

Should the scope of your work or the area of your work change, please contact as below to receive further advice. Due to continued network expansion, the network information can only be considered valid and accurate for 28 days from issue.

AAPT will seek compensation for any damage to its network through negligence or ignorance of duty of care. Should you require any further information, please contact as below:

AAPT
Ph: 1800 786 306

DISCLAIMER: This document has been prepared solely for the use of AAPT. It should not be scaled to locate any asset. No warranty is given that the information given is accurate or complete

DUTY OF CARE

Due to the nature of underground cables and the age of some cables and records the accuracy and/or completeness of the information cannot be guaranteed and, accordingly, they are indicative only and as a result AAPT (PowerTel) does not accept any responsibility for any inaccuracies of its plans. They should not be solely relied upon when undertaking underground works. It is also inaccurate to assume that fibre optic cables follow straight lines and careful onsite investigations are essential to locate an assets exact position.

The following minimum clearances must be maintained.

1) 300mm when laying asset's inline, horizontal or vertical.

2) 500mm when operating vibrating equipment. Eg: Vibrating plates.

3) 1000mm when operating mechanical excavators or Jackhammers.

ON SITE LOCATING OF AAPT'S (POWERTEL) CABLING AND INFRASTRUCTURE MUST BE CONDUCTED BY AAPT'S (POWERTEL) PERSONNEL ONLY. AAPT (POWERTEL) WILL USE ALL LEGAL MEANS TO SEEK DAMAGES AND ANY OTHER REMEDIES AVAILABLE TO IT IN THE EVENT THAT ITS CABLE OR ANY OTHER NETWORK INFRASTRUCTURE IS DAMAGED BY YOU OR YOUR PERSONNEL AND/OR CONTRACTORS. IT IS AN OFFENCE TO OPEN ANY AAPT'S (POWERTEL) PITS OR MANHOLES AND/OR ANY ASSOCIATED INFRASTRUCTURE BELONGING TO OR PART OF AAPT'S (POWERTEL) NETWORK

Due to the inherent dangers associated with excavation in the vicinity of underground cables, precautions should be taken in the undertaking of any underground works, including (but not limited to) the following.

All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs & Manhole covers must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the possibility of damage to the cable.

EG: Blades of hand equipment should be orientated parallel to the line of the cable rather than digging across the cable.

All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.

All excavations must be undertaken in accordance with the relevant legislation and regulations.

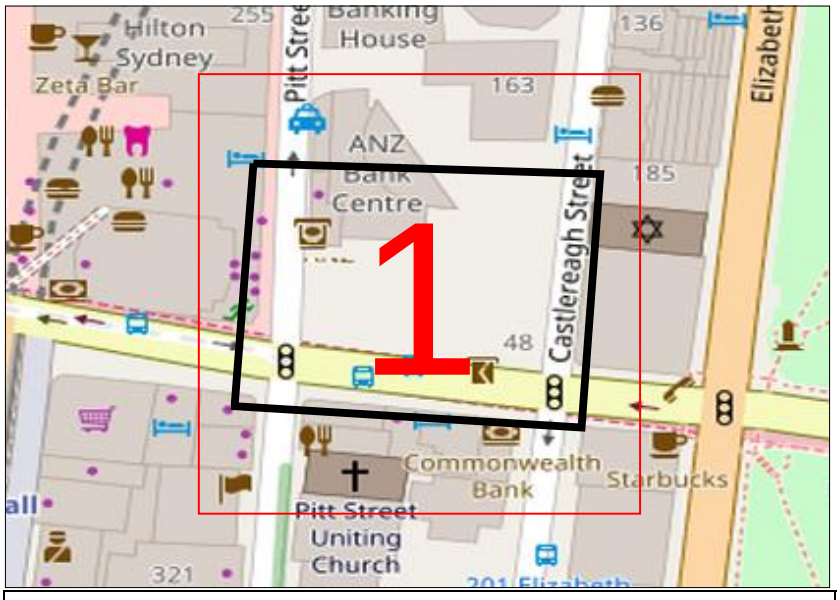
ANY DAMAGE TO AAPT (POWERTEL) NETWORK MUST BE REPORTED IMMEDIATELY TO 1800 786 306

Any information provided is valid only for 28 days from the date of issue of this document.

If the work operations extend beyond this period, or if the designs are altered in any way, you are requested to re-submit your proposal for re-assessment by contacting Dial Before You Dig ph:1100 or www.dialbeforeyoudig.com.au

Onsite visits by AAPT (PowerTel) agents may incur costs, this would solely depend on the type and extent of the work to be carried out. EG: Major roadwork's, network relocation's, Large planning and design work's.

Overview Map



AAPT (for information specific to this job only) Ph 1800 786 306

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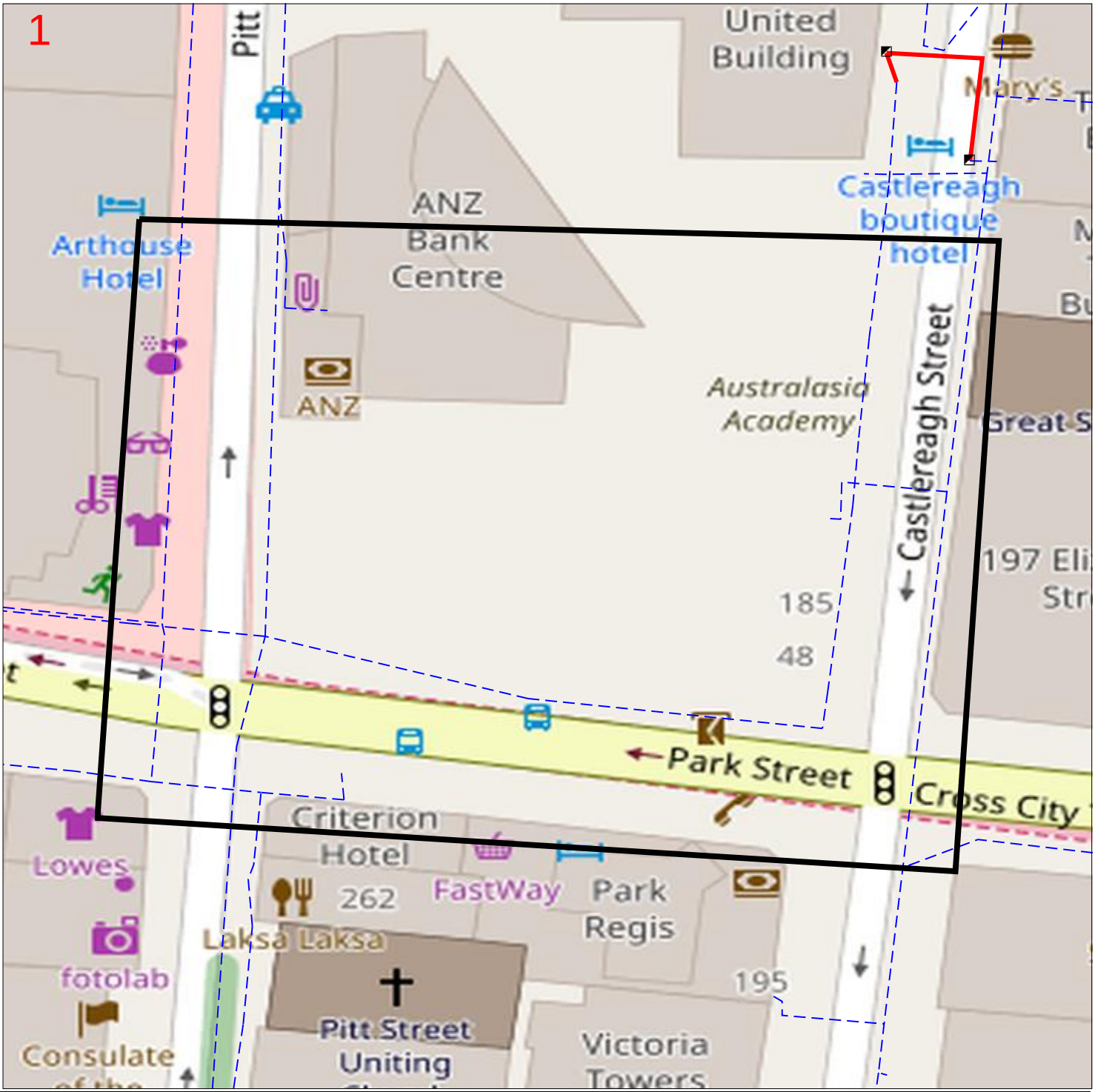
AAPT

PowerTel Simply Business

AAPT (PowerTel) Limited GPO Box 7041 Sydney 2001
Phone: 1800 786 306 A/H 1800 786 306



Enquiry Number: 92397592

Map Sheet: 1

Scale: 1:750

0 0.008km

LEGEND:

- DBYD Work Area
- AAPT Duct
- Non AAPT Duct
- AAPT Manhole

N

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aarnet
Australia's Academic and Research Network

GPO Box 5519
Chatswood
NSW, 1515

21/11/2019

To:
Ms Yiqing Kong
LCI
Level 4 73 Walker St
North Sydney, 2060

Sequence No: 92397599

Job No: 18616279

Location: 254 Pitt Street
Sydney, NSW, 2000

Commencement Date: 01/02/2020

Dial Before You Dig Response – Underground Fibre Assets

Dear Ms Yiqing Kong

This letter is in relation to the proposed work at location detailed above is in the vicinity and may impact AARNet fibre optic cable assets.

Attached is a map indicating the approximate location of the AARNet assets in relation to your enquiry area. A detailed Plan is normally attached to this response. There may be additional AARNet assets in this area contained within Telstra duct. No work is to take place until plans have been obtained from Telstra and reviewed as necessary

Any information provided is valid for 28 days from the date of issue of this document.

Please review the map and if you have any further concerns, contact the AARNet NOC on 1300 APL NOC (1300 275 662).

If you are proposing to carry out digging in the vicinity of AARNet underground infrastructure you will need to carry out these works in accordance with the guidelines below.

WARNING

Where AARNet plans have been attached, they are indicative of the position of AARNet Pty Ltd's (AARNet) fibre optic installation/s only. Services belonging to other third parties are not included on these plans.

These plans have been prepared solely for the use of AARNet and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of our assets relative to fences, buildings etc., as they existed at the time the fibre etc. was installed. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared.

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While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

GPO Box 5519
Chatswood
NSW, 1515

AARNet makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error, omission, lack of detail, transmission failure or corruption in the information provided. AARNet does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of AARNet, its employees, agents, officers or contractors).

The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to AARNet's fibre optic installations.

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

All Areas

Under no circumstances shall construction, digging or excavating work entailing crossing AARNet plant be carried out without first exposing or locating the AARNet asset by an accredited locator and under the supervision of an accredited plant location contractor.

Manual pot-holing needs to be undertaken with extreme care, common-sense and employing techniques least likely to damage cables. For example, orientate shovel blades and trowels parallel to the cable rather than digging across the cable.

Visual location of asset must be carried out by hand digging or using non-destructive water jet method (pot holing) where construction activities may damage or interfere with AARNet assets.

The following minimum clearances must be maintained between mechanical construction activity and the located AARNet asset.

Jackhammers / Pneumatic Breakers	Not within 1.0m of actual location
Vibrating Plate or Wacker Packer Compactor	Not within 0.5m of actual location 300mm compact clearance before compactor can be used over AARNet conduits. 750mm compact clearance cover before compactor can be used Over AARNet Direct Buried cable
Boring Equipment (in-line, horizontal and vertical)	Not within 5.0m of actual location without supervision of accredited plant location contractor onsite OR AARNet asset must exposed via hand dig or nondestructive water jet method (pot holing). AND AARNet asset must not be crossed without first exposing the asset at the crossing point and not without an accredited plant location contractor representative onsite

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Chatswood
NSW, 1515

Heavy vehicle Traffic (over 3 tonnes)	Not to be driven over AARNet conduits or assets with less than 600mm of cover. Depth to be verified via hand digging
Mechanical Excavators, Farm ploughing, Boring, Tree removal, fencing	Not within 1.0m of actual location. Constructor to hand dig or use non-destructive water jet method (pot holing) and expose asset

Urban Areas

Under no circumstances shall construction, digging or excavating work be carried out: within 1.5m of AARNet assets without first locating and identifying the AARNet asset by an accredited locator and under the supervision of an accredited plant location contractor.

Rural Areas

Under no circumstances shall construction, digging or excavating work be carried out within 10m of AARNet plant be carried out without first locating and identifying the AARNet asset by an accredited locator and under the supervision of an accredited plant location contractor.

ASSET RELOCATIONS

You are not permitted to relocate, modify or alter any AARNet assets under any circumstances. Please contact AARNet Infrastructure Development Group via email apl-dig@aarnet.edu.au for all enquiries relating to the relocation of AARNet assets.

DAMAGE

AARNet will seek Compensation for any loss caused by damage to its assets. Damage to any AARNet asset must be immediately reported to AARNet NOC on 1300 APL NOC (1300 275 662).

FURTHER ASSISTANCE

Assistance can be obtained by contacting AARNet NOC on 1300 APL NOC (1300 275 662) Where an on-site location is provided by an accredited locator, the owner is responsible for all costs associated with hand digging or use of non-destructive water jet method (pot holing) to visually locate AARNet assets. If plant location drawings or visual location of AARNet assets by digging reveals that the location of AARNet plant is situated wholly or partly within the owner work area, then AARNet Infrastructure Development Group **apl-dig@aarnet.edu.au must be contacted to discuss possible engineering solutions**.

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While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

aarnet
Australia's Academic and Research Network

Sequence No: 92397599
Job No: 18616279
Location: 254 Pitt Street, Sydney, NSW 2000

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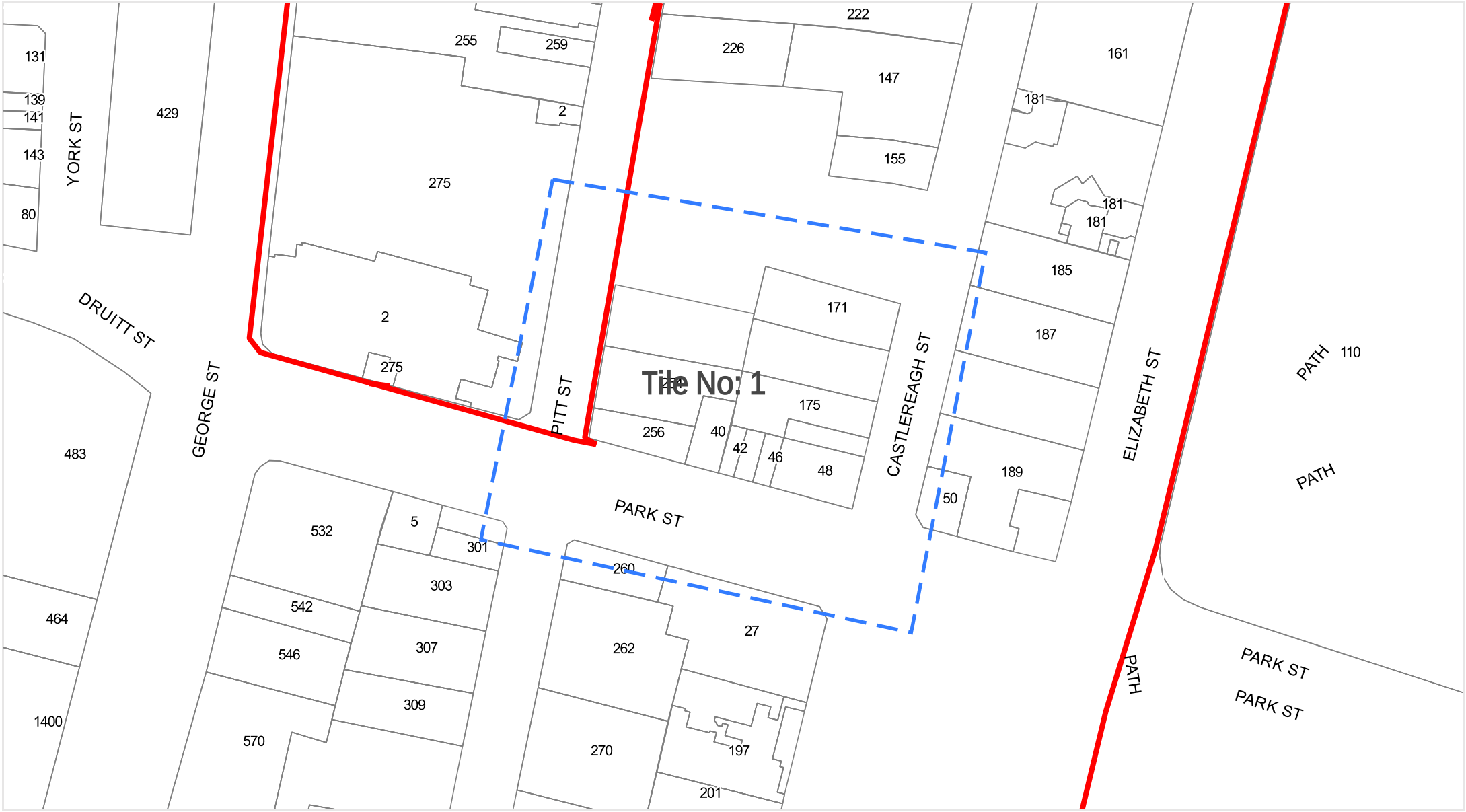


Legend | Scale: 1:1500

N

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

If further information is required, please contact:
Ausgrid DBYD
Phone: (02) 4951 0899
Fax: (02) 4951 0729

Emergency Phone Number 131388

Underground Cable Location Search Advice

-- Ausgrid Assets Affected including TRANSMISSION --

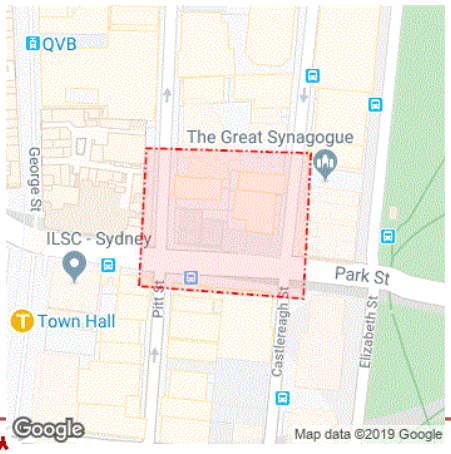
If you are working within 2 metres of **TRANSMISSION** cables you are required to have an Ausgrid Supervisor on site. The number to call to organise this is **49519200** and can also be found at the top of the supplied Transmission plan(s) in **RED**. *Note:* The Transmission Team requires **2 weeks notice** if required on site.

To:	Ms Yiqing Kong LCI Level 4 73 Walker St North Sydney NSW 2060		
		Phone No:	0466830473
		Issue Date:	22/11/2019

In response to your enquiry, Sequence No: 92397594 the records of Ausgrid disclose that there **are** Ausgrid underground cables in the defined search location and relevant Ausgrid plans have been provided.

This search is based on the geographical position of the dig site as denoted in the Dial Before You Dig caller confirmation sheet and an overview is provided:

Address:	254 Pitt Street Sydney NSW 2000
Job #:	18616279



Important

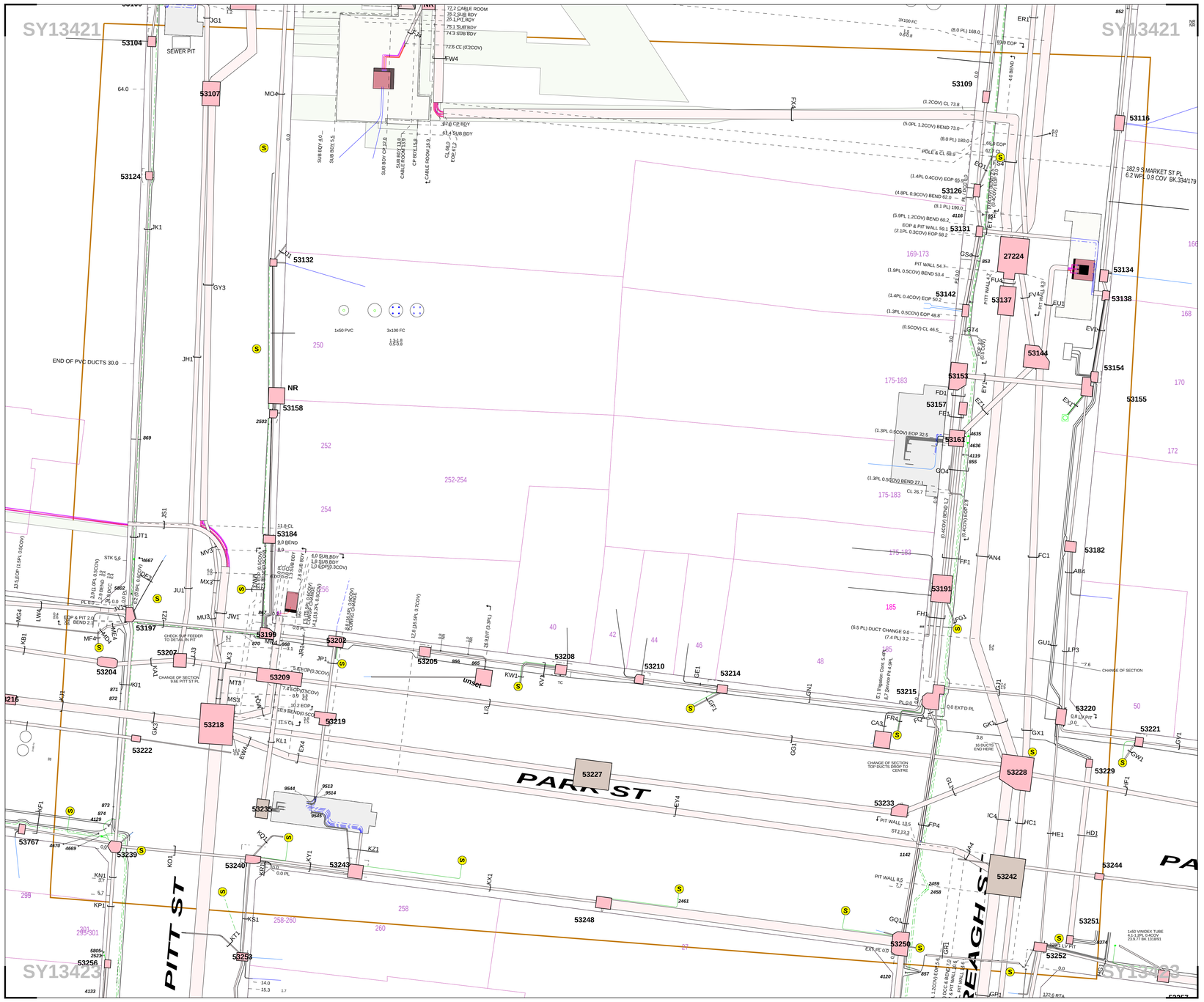
- All information provided to you is **ONLY VALID FOR 30 DAYS** from the date of issue
- You must keep Ausgrid plans on site during excavation works. If the people actually performing the excavation works do not know how to read and interpret Ausgrid's plans, then the work must be directed by a person who knows how to read and interpret plans.
- If you require a full size print of A0 plans and don't have the resources to do so please contact our office on 49510899 to request a hard copy to be posted. **Please allow 3 working days for delivery.**
- Please note you will ONLY receive portions of your search area that contain Ausgrid Underground Assets

YOU MUST READ AND UNDERSTAND THE *SUPPLEMENTARY MATERIAL* CONTAINED IN THIS ADVICE BEFORE PROCEEDING WITH ANY WORKS.

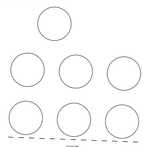
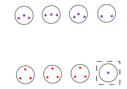
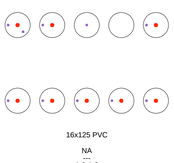
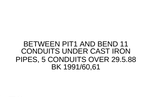
Summary of Supplementary Information:

Material	Purpose	Location
Important Information.pdf	Details important information	Attached
Working near Ausgrid Cables.pdf	Summary of NS156	Attached
COMN0119 How to Read Ausgrid Plans.pdf	Details how to read Ausgrid plans	Attached
SafeWork NSW "*Work near underground assets: Guide*"	To assist you in deciding appropriate measures to eliminate or control risks when working near underground assets.	Web Link [Click Here]
Ausgrid's Network Standard NS156	For important information for work near or around underground cables	Web Link [Click Here]
Ausgrid's Network Standard NS199	This Network Standard applies to specific work on Ausgrid Low Voltage Underground Assets and Associated Hazards	Web Link [Click Here]
Working in Confined Spaces	For important information when working in confined spaces	Web Link [Click Here]

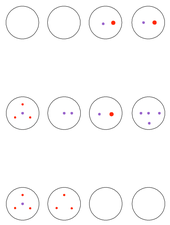
1	2
SY134 - AB4 3x100 AC NR 0.7-0.8 2x140 FC NR 0.6 Ref: D9	SY134 - CA3 1x63 PVC 0.9 --- 0.6 Ref: E8
SY134 - DF3 1 x 63 PVC 4.0 --- NR Ref: D4	SY134 - EO1 2x63 PVC NA --- 0.4-0.6 Ref: B9
SY134 - ET1 6X100 FC NA --- 1.1 Ref: B9	SY134 - EU1 4x100 FC NR --- NR Ref: C9
SY134 - EV1 2X100 FC 2.0-2.1 0.2-0.4 2X100 FC 3x100 GI 1.2-2.1 0.3-0.7 Ref: C10	SY134 - EX1 1X63 PVC NA --- NR NA --- 0.4 Ref: C10
SY134 - EY1 6x100 FC NA --- NR Ref: C9	SY134 - EZ1 4x140 FC NA --- 0.8-0.9 Ref: C9
SY134 - FD1 6X100 FC NR NR 3X100 FC 2.4 0.5 Ref: C9	SY134 - FE1 6X100 FC NR NR 3X100 FC 2.1-2.4 0.5 1X100 FC NR NR Ref: C9
SY134 - FF1 3x100 FC 2.1-2.4 0.5 NR NR 6x100 FC NR NR Ref: D9	SY134 - FG1 1x50 PVC NA --- NR Ref: E9
SY134 - FH1 1x100 FC NR NR 6x100 FC NR NR 3x100 FC 1.7-2.3 0.5 Ref: E9	SY134 - FQ4 4x100 FC NA --- 0.6-0.9 Ref: E9


SY13421
SY13423
53104
SEWER PIT
JG1
53107
MO4
64.0
53124
JK1
JJ1
53132
GY3
END OF PVC DUCTS 30.0
JH1
NR
53158
2503
869
252
252-254
254
53184
11.8 CL
3.8 BEND
8.0
JS1
JT1
MV3
MX3
JU1
MU3
JW1
53197
MF4
MG4
LW4
KB1
KA1
ME4
53199
MM4
53202
53204
KA1
KK1
53207
LJ3
KJ3
MT3
MS3
MQ4
53209
53216
53218
KL1
EX4
GX3
53222
53205
53208
53210
53214
KW1
KV1
JP1
GE1
LN1
LJ2
53219
53227
PARK ST
53235
53239
53240
53243
53248
KQ1
KY1
KZ1
KX1
KS1
LT1
53253
53256
PITT ST
53767
KF1
KN1
KP1
53109
53116
53126
53131
53134
53137
53138
53142
53144
53153
53154
53155
53157
53161
53182
53191
53215
53220
53221
53228
53229
53233
53242
53244
53250
53251
53252
27224
FU4
FV4
FU1
EV1
EV4
EX4
FD1
FE1
EZ1
GO4
FF1
AN4
FC1
AB4
FH1
FG1
GU1
FP3
FR4
FQ4
CA3
GK1
GX1
GW1
GV1
HF1
GL1
FP4
IC4
HC1
HE1
HD1
GT4
GS4
GQ1
GR1
JN4
JA4
FS1
ER1
FX4
EO1
GA4
GS4
PIT WALL 5.4
PIT WALL 4.7
PIT WALL 13.5
PIT WALL 13.7
PIT WALL 12.5
PIT WALL 8.5
PIT WALL 5.7
PIT WALL 4.6
182.9 S MARKET ST PL
6.2 WPL 0.9 COV BK 334/179
(8.0 PL) 168.0
8.0 EOP
4.0 BEND
(1.2COV) CL 73.8
(5.0PL 1.2COV) BEND 73.0
(8.0 PL) 180.0
60.0 EOP
62.0 CL
POLE & CL 68.9
(1.4PL 0.4COV) EOP 65.0
(4.8PL 0.9COV) BEND 62.0
(8.1 PL) 190.0
(5.9PL 1.2COV) BEND 60.2
EOP & PIT WALL 59.1
(2.1PL 0.3COV) EOP 58.2
169-173
(1.9PL 0.5COV) BEND 53.4
(1.4PL 0.4COV) EOP 50.2
(1.3PL 0.5COV) EOP 48.8
(0.5COV) CL 46.5
175-183
(1.3PL 0.5COV) EOP 32.5
(1.3PL 0.5COV) BEND 27.1
CL 26.7
185
(6.5 PL) DUCT CHANGE 9.0
(7.4 PL) 3.2
CHANGE OF SECTION
(1.3PL 0.5COV) EOP 29.9
(0.4COV) BEND 1.7
(0.4COV) EOP 2.9
CHANGE OF SECTION TOP DUCTS DROP TO CENTRE
PIT WALL 12.5
ST 13.3
1142
2459
2458
PIT WALL 8.5
5.7
(1.3PL 0.5COV) EOP 32.5
4635
4636
4119
655
(1.3PL 0.5COV) BEND 27.1
CL 26.7
(0.4COV) BEND 1.7
(0.4COV) EOP 2.9
185
(6.5 PL) DUCT CHANGE 9.0
(7.4 PL) 3.2
E1 Filtration Core: 5.4PL
4.7 Sump P4 4.8PL
CHANGE OF SECTION
(1.2COV) CL 73.8
(5.0PL 1.2COV) BEND 73.0
(8.0 PL) 180.0
60.0 EOP
62.0 CL
POLE & CL 68.9
(1.4PL 0.4COV) EOP 65.0
(4.8PL 0.9COV) BEND 62.0
(8.1 PL) 190.0
(5.9PL 1.2COV) BEND 60.2
EOP & PIT WALL 59.1
(2.1PL 0.3COV) EOP 58.2
169-173
PIT WALL 54.7

E_SDSTN1E_GMLA0_2.mapd

1	2	3	4	5	6	7	8	9	10	11	12
A											
SY134 - HC1  4x100 AC 4.3 --- 1.2 Ref: F9	SY134 - HD1  Ref: F9	SY134 - HE1  4x100 AC NA --- 0.7 WARNING POSITION OR CONFIGURATION OF CABLES/CONDUITS INSIDE DASHED LINE IS NOT KNOWN Ref: F9	SY134 - JH1  4x100 FC 7.8-7.9 --- 0.4-0.8 Ref: C4	SY134 - JJ1  2x125 PVC 1.3 --- 0.4 Ref: B5	SY134 - JK1  3x100 PVC 1.5 --- 0.6-0.75 NR --- NR 1.7-2.1 --- 0.4-0.5 Ref: B4	SY134 - JP1  6 X 100 AC NA --- 1.5 Ref: E5	SY134 - JR1  6 X 100 AC 0.5 - 1.1 --- 0.7 NR --- NR WARNING POSITION OR CONFIGURATION OF CABLES/CONDUITS INSIDE DASHED LINE IS NOT KNOWN Ref: E5	SY134 - JS1  8x125 PVC NA --- 0.75 WARNING POSITION OR CONFIGURATION OF CABLES/CONDUITS INSIDE DASHED LINE IS NOT KNOWN Ref: D4	SY134 - JT1  3x100 PVC 1.5 --- 0.6-0.75 NR --- NR 1.7-2.1 --- 0.4-0.5 Ref: D4	SY134 - JU1  4x100 FC 7.8-7.9 --- 0.4-0.8 Ref: D4	SY134 - JY1  1x125 PVC NA --- 0.5 Ref: D3
B											
SY134 - JZ1  3 x 100 AC NA --- 0.5 - 1.1 WARNING POSITION OR CONFIGURATION OF CABLES/CONDUITS INSIDE DASHED LINE IS NOT KNOWN Ref: D4	SY134 - KA1  4x140 EW NR --- NR Ref: E4	SY134 - KI1 6 X 100 AC NA --- NR Ref: E3	SY134 - KJ1 9x100 FC 13.7 --- NR Ref: E3	SY134 - KL1 4x100 AC NA --- 1.1-1.4 Ref: E4	SY134 - KN1  2x140 FC 1x100 FC 1.0 --- 0.3 3x100 FC 1.2-1.3 --- 0.5 Ref: F3	SY134 - KO1 6x100 AC 0.5-1.1 --- 0.6 Ref: F4	SY134 - KQ1 1x125 PVC NA --- NR Ref: F4	SY134 - KR1 1x100 FC NR --- 0.4 Ref: F4	SY134 - KV1 1.5 - 1.8 --- 0.3 - 0.5 1.1 --- 0.5- 0.8 WARNING POSITION OR CONFIGURATION OF CABLES/CONDUITS INSIDE DASHED LINE IS NOT KNOWN Ref: E6	SY134 - KW1 1 X 50 PVC NA --- 0.4 Ref: E6	SY134 - KX1 6x100 FC 1.0-1.1 --- 0.6-0.8 Ref: F6
C											
SY134 - KY1  3x150 AC 0.5 --- 0.5 6x100 AC 1.1 --- 0.6 Ref: F5	SY134 - KZ1 2x100 AC NA --- 1.1 6x100 AC NA --- 1.2 Ref: F5	SY134 - LI3 4X100 EW 6.7 --- NR Ref: E6	SY134 - LJ3 4x100 EW NR --- 0.5 Ref: E4	SY134 - LK3 4x100 EW NR --- 0.5 Ref: E4	SY134 - LP3 3x100 AC NR --- 0.7-0.8 Ref: E9	SY134 - MD4 4x63 PVC 2.9-3.9 --- 0.4 Ref: D3	SY134 - ME4 4x63 PVC 2.0-2.9 --- 0.4-0.6 Ref: D3	SY134 - MF4 2x63 PVC 3.9-5.6 --- 0.4 Ref: D3	SY134 - MO4 6x125 PVC --- 3x63 PVC 1.2 --- 0.5 Ref: A5	SY134 - MQ4 STEEL PLATES 4x125 PVC NA --- 0.5 Ref: E4	SY134 - MR4 STEEL PLATES 4x125 PVC NA --- 0.3 Ref: E4
D											
SY134 - MS3 8x125PVC 5.8 --- 0.6-1.5 Ref: E4	SY134 - MT3 8x125PVC 5.8 --- 0.6 Ref: E4	SY134 - MU3 8x125 PVC NA --- 1.1-1.2 Ref: D4	SY134 - MV3  8x125PVC 9.0 --- 0.9 Ref: D4	SY134 - MW3 1x100 PVC NA --- NR Ref: D4	SY134 - MX3 8x125PVC 6.6 --- 1.0 Ref: D4	SY134 - AN4 16x125 PVC 6.5-9.5 --- 1.4-1.9 Ref: D9	SY134 - EY4 TSB 16x150 PVC NR --- 0.7-1.7 Ref: F7	SY134 - FC1 12x100 FC NR --- 0.7-1.0 Ref: D9	SY134 - FS4 16x150 PVC 1x50 PVC 4.8-5.9 --- 0.9-1.3 Ref: B9	SY134 - FU4 16x125 PVC 8.0-8.9 --- 1.1-1.5 Ref: C9	SY134 - FW4 16x150 PVC 1x50 PVC 68.0-69.1 --- NR ON BASEMENT 1 Ref: A6
E											
F											
SY134 - GK1 16x125 PVC NA --- 1.0-1.6 BETWEEN PIT1 AND BEND 11 CONDUITS UNDER CAST IRON PIPES, 5 CONDUITS OVER 29.5.88 BK 1991/60,61 Ref: E9	SY134 - IC4 16x125 PVC 7.0-9.0 --- 1.2-2.5 Ref: F9	SY134 - EW4 Ref: E4	SY134 - EX4 TSB 16x150 PVC 15.5-16.5 --- 0.6-0.9 Ref: E4	SY134 - FP4 Ref: F8	SY134 - GO4 Ref: D9	SY134 - IA4 TSB 16x150 PVC 11.4-12.9 --- 1.1-1.2 Ref: F9					
G											
H											

SY134 - GY3



12x125 PVC

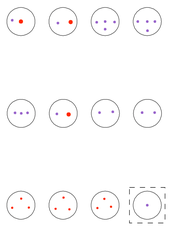
6.0

0.75 - 0.8

END OF DUCTS NO 6 9 10 12 UNKNOWN

Ref: B4

SY134 - JW1



12x125

6.0

0.75 - 0.8

END OF DUCTS NO 6 9 10 12 UNKNOWN

WARNING
POSITION OR CONFIGURATION OF
CABLES/CONDUITS INSIDE
DASHED LINE IS NOT KNOWN

Ref: D4

JOINT DETAIL REPORT

No.	Bk-Pg	Pl/Cvr	Joint Location
Map: SY134			
64	hv07-0089		IN PIT 69
65	2146-53+...		IN PIT 69
66	2146-53+...		IN PIT 69
68	hv07-0089		IN PIT 69
69	2016-79+...		IN PIT 69
70	hv07-0089		IN PIT 69
71	ER13-31+...		IN PIT 69
73	ER13-31+...		IN PIT 69
74	2213-95+...		IN PIT 69
75	2146-53+...		IN PIT 69
76	1981-90+...		IN PIT 74
77	1981-90+...		IN PIT 74
78	1981-90+...		IN PIT 74
79	890-19+...		IN PIT 74
80	890-19+...		IN PIT 74
81	890-19+...		IN PIT 74
82	704-81		IN PIT 96
83	704-81		IN PIT 96
84	800-83		IN PIT 96
85	2234-8+...		IN PIT 101
87	2234-8+...		IN PIT 101
88	2234-9+...		IN PIT 101
92	1968-93+...		IN PIT 101
93	1970-44+...		IN PIT 101
94	1969-95+...		IN PIT 101
97	785-38+...		IN PIT 99
98	785-38+...		IN PIT 99
99	785-38+...		IN PIT 99
103	570-64	4.30/	IN PIT SY53242
104	573-15	4.30/	IN PIT SY53242
105	57-11	4.30/	IN PIT SY53242
201	2158-26+...		IN PIT 168
202	2158-26+...		IN PIT 168
203	2158-26+...		IN PIT 168
204	1290-79	0.50/	IN PIT 165
205	1269-42	0.50/	IN PIT 165
206	1269-42	0.50/	IN PIT 165
223	ER90-093B+...		IN PIT 169.
225	ER90-093B+...		IN PIT 169.
226	2233-42+...		Pit SY53218
228	2215-91+...		Pit SY53218
230	2233-21+...		IN PIT 177
851			NOT RECORDED
853			IN PIT
854			NOT RECORDED
855			NO RECORD
856			NO RECORD
859	1270-5		NO RECORD
865	1212-14		NO RECORD
866	1212-14		NO RECORD
867	1592-34		NO RECORD
868	13709-33		NO RECORD
869			NO RECORD
870	13709-33		NO RECORD
871	1294-1		NO RECORD
872	1294-1		NO RECORD
873	890-11		NO RECORD
874	890-11		NO RECORD
1080	212-113	1.20/	IN PIT 62
1084	IC18-0190	2.00/	IN PIT 64
1097	IC09-0947		IN PIT 67
1098	IC09-0947		IN PIT 67
1102	531-77		IN PIT 71
1103	1592-14		IN PIT 71
1104	1696-55	1.60/	IN PIT 72
1105	1696-55	1.60/	IN PIT 72
1106	296-158	1.60/	IN PIT 72
1107	991-64		IN PIT 68
1108	301-54		IN PIT 68
1110	396-92	2.10/	IN PIT 75
1111	320-62	1.80/	IN PIT 76
1112	890-23+...		IN PIT 78
1113	930-55+...		IN PIT 78
1114	1696-55+...		Pit SY53161
1115	890-91	1.80/	IN PIT 79
1116	ER79-62		IN PIT 79.
1141	1787-12	1.40/	Pit SY53215
1142	1785-56		
1143	1787-12	1.80/	IN PIT 98
1144		1.80/	IN PIT 98
1145	154-3	0.90/	IN PIT 100
1146	545-87	0.90/	IN PIT 100
1149	1695-70+...		IN PIT 105
1154	165-117+...		IN PIT 113
1155	165-117+...		IN PIT 113
1156	LV07-0587		IN PIT 113
1158	380-106+...		IN PIT 113
1186	1931-56		IN PIT 150
1197	568-7		Pit SY53184
1204	1968-19	1.40/	Pit SY53202
1206		1.40/	Pit SY53202
1207	1639-36	1.40/	Pit SY53202
1209		1.70/	IN PIT 163
1210	1019-50		Pit SY53199
1211	568-7	1.70/	Pit SY53199
1215	1933-33	0.50/	IN PIT 164
1218	1711-94	0.50/	IN PIT 164
1219	379-181		IN PIT 172
1220	166-5		IN PIT 172
1221	568-46+...		IN PIT 172
1223	568-46+...		IN PIT 172
1229	2023-55		IN PIT 173
1231	142-99		IN PIT 173
1232	142-99		IN PIT 173
1240	LV05-0414		IN PIT 180
1241	LV05-0414		IN PIT 180
2410	1611-31	1.20/	IN PIT 63
2415	168-51+...	1.20/	IN PIT 70
2416			IN PIT 70.
2417	IC09-0948		IN PIT 71
2418	991-33		IN PIT 68
2419	991-33		IN PIT 68
2421	991-33		IN PIT 77
2422	ER6-86	2.10/	IN PIT 75
2423	508-75	1.80/	IN PIT 79
2424	1036-78	1.80/	IN PIT 79
2425	468-7	1.80/	IN PIT 79
2451	205-56+...		IN PIT 93
2452	2183-22	0.90/	IN PIT 179
2453	466-49	0.90/	IN PIT 179
2454	1572-65+...		IN PIT SY-53214
2455	468-20		IN PIT 94
2456	ER2-60	1.40/	Pit SY53215
2457	466-49	1.40/	Pit SY53215
2458			NO RECORD
2459			NO RECORD
2460	466-29	1.80/	IN PIT 98
2461	569-91	3.60/0.50	27.6W CREAGH ST PL
2462	466-29		IN PIT 100
2500	400-24		IN PIT 150
2501	400-24		IN PIT 150
2503	187-89	1.70/0.60	27.4N PARK ST PL
2506	468-12	1.00/	IN PIT 161
2508	465-49	1.40/	IN PIT 162
2509	187-89	1.70/	IN PIT 163
2510	1036-32	1.70/	IN PIT 163
2511	175-29	1.70/	IN PIT 163
2512		1.70/	IN PIT 163
2515	175-38	0.50/	IN PIT 164
2516	468-11	0.50/	IN PIT 164
2521	568-31		IN PIT 172
2522	1611-13		IN PIT 172
2525	466-35		IN PIT 180
3271	1981-90+...		IN PIT 74
3272	1981-90+...		IN PIT 74
3273	379-47+...		IN PIT 74
3274	890-5+...		IN PIT 74
3275	2234-3+...		IN PIT 74
3276	hv07-0090		IN PIT 74
3278	529-36+...		IN PIT 101
3281	ER44-57+...		IN PIT 101
3285	2110-49+...		IN PIT 101
3287	2003-3+...		IN PIT 101
3289	842-35+...		IN PIT 101
3290	570-64	4.30/	IN PIT SY53242
3292	ER21-27+...		IN PIT 101
3293	2110-49+...		IN PIT 101
3295	1969-95+...		IN PIT 101
3296	2110-49+...		IN PIT 101
3358	1121-52+...		IN PIT SY-53107
3363	2158-30+...		IN PIT 168
3364	2158-30+...		IN PIT 168
3365	269-20	7.80/	IN PIT 168
3366	2158-30+...		IN PIT 168
3367	1121-51	7.80/	IN PIT 168
3368	507-33	0.50/	IN PIT 165
3370	332-25	0.50/	IN PIT 165
3371	332-25	0.50/	IN PIT 165
3372	1269-42	0.50/	IN PIT 165
3375	196-1+...		IN PIT 177
3376	hv07-0126		IN PIT 177
3381	hv07-0126		IN PIT 177
3384	2233-41+...		IN PIT 177
3385	1151-12+...		IN PIT 177
3386	2233-41+...		IN PIT 177
3390	1526-16+...		IN PIT 177
3980	2158-26	7.80/	IN PIT 168
3981	2158-26	7.80/	IN PIT 168
3982	2158-26	7.80/	IN PIT 168
4116	1738-97		NOT RECORDED
4118	283-54		NOT RECORDED
4119	283-54		NO RECORD
4121	1268-33		NO RECORD
4129	1738-73		NO RECORD
4346	2113-37		IN PIT 67
4347	2113-37		IN PIT 67
4348	2113-37		IN PIT 67
4350	1357-51	1.60/	IN PIT 72
4351	1357-51	1.60/	IN PIT 72
4352	1018-61	1.60/	IN PIT 72
4358	22194-9	0.90/	IN PIT 179
4360	1695-70+...		IN PIT 105
4368	1623-6		Pit SY53184
4635			NO RECORD
4636			NO RECORD
4643	ER2-60	1.40/	Pit SY53215
4644	ER2-60	1.40/	Pit SY53215
4666	1036-32	1.70/	IN PIT 163
4667	1961-76	99.99/0.40	IN PIT
4668	1961-76	0.50/	IN PIT 164
4669		1.80/	1.5W PITT ST
4670		1.80/	1.5W PITT ST
4671			IN PIT 172
4672	1970-35		IN PIT 173
4673	LV05-0415		IN PIT 173.
5033	hv07-0124		IN PIT 101
5034	hv07-0124		IN PIT 101
5035	hv07-0124		IN PIT 101
5064	1269-43	7.80/	IN PIT 168
5065	1269-43	7.80/	IN PIT 168
5388	ER102-129+...		Pit SY53239
5646	ER108-071		Pit SY53215
5802			
5812	ER105-038		Pit SY53235
5937	LV05-0411		
5938			
5942	ER114-082		Pit SY53158
5952	IC04-433		IN PIT 152
6323	LV05-0411		
6324	LV05-0415		IN PIT 173
6504	LV05-0411		IN PIT 172
6511	LV05-0414		IN PIT 180
6718	468-11	0.50/	IN PIT 164
6719	1961-76	0.50/	IN PIT 164
6725	HV05-0245		IN PIT 168
6726	HV05-0245		IN PIT 168
6727	HV05-0245		IN PIT 168
6750	HV05-0084	0.50/	IN PIT 165
6808			
6810			
6874	LV05-0414		IN PIT 180
6876		1.40/	IN PIT 162
6966	ER126-059		IN PIT SY-53107
6969	ER126-059		IN PIT SY-53107
6972	HV05-0327		IN PIT SY-53107
6973	HV05-0327		IN PIT SY-53107
6974	HV05-0327		IN PIT SY-53107
6975	HV05-0327		IN PIT SY-53107
6980	HV05-0327		IN PIT SY-53107
6986	HV05-0328		IN PIT 169
6987	HV05-0328		IN PIT 169
6988	HV05-0328		IN PIT 169
6999	LV05-0403	1.60/1.00	IN PIT 163
7074	LV05-0415		IN PIT 173
7075	LV05-0415		IN PIT 173
7368	hv07-0124		IN PIT 101
7722	hv07-0126		IN PIT 177
7727	2016-79+...		IN PIT 69
7772	LV07-0593		IN PIT 105
7774	LV07-0593		IN PIT 105
7777	LV07-0587		IN PIT 113
7778	LV07-0587		IN PIT 113
7780	LV07-0587		IN PIT 113
7781	LV07-0587		IN PIT 113
7788	hv07-0090		IN PIT 74
7961	IC09-0139		IN PIT SY-53210
7990	IC09-0434		IN PIT SY-53228
7991	IC09-0434		IN PIT SY-53228
7992	IC09-0444		IN PIT SY-53228
7993	IC09-0444		IN PIT SY-53228
7994	IC09-0408		IN PIT SY53228
8005	IC09-0445		IN PIT SY-53228
8006	IC09-0445		IN PIT SY-53228
8020	IC09-0448		IN PIT SY53228
8021	IC09-0448		IN PIT SY-53228
8022	IC09-0448+...		IN PIT SY-53228
8023	IC09-0448+...		IN PIT SY-53228
8024	IC09-0448		IN PIT SY-53228
8037	IC09-0467		IN PIT SY-53228
8038	IC09-0480		IN PIT SY-53228
8039	IC09-0467		IN PIT SY-53228
8040	IC09-0479		IN PIT SY-53228
8041	IC09-0479		IN PIT SY-53228
8043	IC09-0479		IN PIT SY-53228
8094	IC09-0460		IN PIT SY-53228
8096	IC09-0460		IN PIT SY-53228
8098	IC09-0460		IN PIT SY-53228
8104	IC09-0460		IN PIT SY-53228
8207	IC09-0910		IN PIT 53107
8366	IC09-0917		IN PIT SY-53109: NO RECORD
8367	IC09-0917		IN PIT SY-53109: NO RECORD
8368	IC09-0917		IN PIT SY-53109: NO RECORD
8369			IN PIT SY-53131: NO RECORD
8370			IN PIT SY53157
8371			IN PIT SY-53157: NO RECORD
8372	IC09-0924		IN PIT SY53191: NO RECORD
8404	IC10-0026		IN PIT SY-53132
8407	IC10-0047		IN PIT SY-53104
8410	IC10-0051		IN PIT SY-53184
8411	IC10-0051		Pit SY53184
8412	IC10-0050		IN PIT SY-53214
8413	IC10-0049+...		Pit SY53210
8414	IC10-0049+...		Pit SY53210
8415	IC10-0026		IN PIT SY-53132
8434	IC10-0123		IN PIT SY-53228
8435	IC10-0123		IN PIT SY-53228
8436	IC10-0123		IN PIT SY-53228
8437	IC10-0112		IN PIT SY-53228
8438	IC10-0112		IN PIT SY-53228
8442	IC10-0126		IN PIT SY-53228
8443	IC10-0126		IN PIT SY-53228
8444	IC10-0126		IN PIT SY53228
8461	IC10-0026		IN PIT SY-53132
8532	IC10-0271		IN PIT SY-53218
8533	IC10-0244		IN PIT SY-53218
8534	IC10-0244		IN PIT SY-53218
8535	IC10-0244		IN PIT SY-53218
8536	IC10-0244		IN PIT SY-53218
8537	IC10-0244		IN PIT SY-53218
8561	IC09-0950		IN PIT SY-53220
8562	IC09-0950		IN PIT SY-53220
8566	IC09-0949		IN PIT SY-53154
8567	IC09-0949		IN PIT SY-53154
8568	IC09-0949		IN PIT SY-53154
8569			IN PIT SY-53138
8594	IC09-0947		IN PIT SY-53116
8602	IC10-0398+...		IN PIT SY-53107: NO RECORD
8607	IC10-0442+...		IN PIT SY-53107
8612	IC10-0476		IN PIT SY-53107
8623	IC10-0490		IN PIT SY-53126
8628	IC10-0497		IN PIT SY-53107
8665	IC10-0865		IN PIT SY-53218
8666	IC10-0865		IN PIT SY-53218
9994	IC11-1502		Pit SY53250
9135	IC12-0504		Pit SY53182
9235	IC12-1576		Pit SY
9236	IC12-1576		Pit SY
9237	IC12-1577		Pit SY
9238	IC12-1577		Pit SY
9240	IC12-1640		Pit SY
9241	IC12-1641		Pit SY
9242	IC12-1648		Pit SY
9243	IC12-1649		Pit SY
9247	IC12-1727		Pit SY
9248	IC12-1727		Pit SY
9249	IC12-1728		Pit SY
9250	IC12-1728		Pit SY
9279	ES13-0564		Pit SY53126
9305	IC14-0524		Pit SY53197
9306	IC14-0524		Pit SY53197
9307	IC14-0524		Pit SY53197
9500	IC16-0183		Pit SY53205
9502	IC16-0183		Pit SY53208
9508	IC16-0262		Pit SY53197
9510	IC16-0262		Pit SY53197
9511	IC16-0262		Pit SY53197
9512	IC16-0262		Pit SY53197
9513	IC16-0265		IN PIT 177
9514	IC16-0265		IN PIT 177
9517	IC16-0228		Pit SY53239
9519	IC16-0228		Pit SY53197
9520	IC16-0228		Pit SY53197
9523	IC16-0260		Pit SY53219
9538		1.40/	Pit SY53202
9539	IC16-0347		Pit SY53199
9540	IC16-0347		Pit SY53199
9541	IC16-0347		Pit SY53199
9544	IC16-0346		
9545	IC16-0346		
9547	IC16-0540		Pit SY53197
9548	IC16-0540		Pit SY53197
9549	IC16-0510		Pit SY53239
9550	IC16-0520		Pit SY53197
9551	IC16-0520		Pit SY53124
9554			Pit SY53202
9586	IC16-0699		Pit SY53250
9587	IC16-0701		Pit SY53243
9588	IC16-0701		Pit SY53243
9589	IC16-0700		Pit SY53243
9590	IC16-0700		Pit SY53243
9666	IC17-0301		Pit SY53252
9667	IC17-0301		Pit SY53252
9696	IC17-0311		Pit SY53240
9697	IC17-0311		Pit SY53240
9698	IC17-0311		Pit SY53240
9701	IC17-0419		Pit SY53132
9724	IC17-0523		Pit SY53209
9725	IC17-0523		Pit SY53209
9726	IC17-0526		Pit SY53209
9727	IC17-0526		Pit SY53209
9728	IC17-0536		Pit SY53107
9731	IC17-0536+...		Pit SY53107
9732	IC17-0538		Pit SY53107
9733	IC17-0540		Pit SY53209
9734	IC17-0540		Pit SY53209
9746	IC17-0615		Pit SY53209
9747	IC17-0615		Pit SY53209
9748	IC17-0615		Pit SY53209
9749	IC17-0615		Pit SY53209
9750	IC17-0620		Pit SY53209
9751	IC17-0620		Pit SY53209
9752	IC17-0620		Pit SY53209
9753	IC17-0620		Pit SY53209
9754	IC17-0633		Pit SY53209
9755	IC17-0633		Pit SY53209
9756	IC17-0633		Pit SY53209
9772	IC17-878		Pit SY53158
9774			Pit SY53191
9794	IC18-0018		Pit SY53161
9795	IC18-0018		Pit SY53161
9797	IC18-0018+...		Pit SY53161
9798	IC18-0015		Pit SY53208
9799	IC18-0016		Pit SY53210
9800	IC18-0016		Pit SY53210
9801	IC18-0017		Pit SY53214
9803	IC18-0052		Pit SY53202
9804			Pit SY53161
9819	IC18-0049		Pit SY53161
9830			Pit SY53161
9831			Pit SY53161
9832			Pit SY53153
9833			Pit SY53153
9834	890-7	66.60/66.60	Pit SY53153
9836	IC18-0180+...		Pit SY53131
9837	IC18-0180+...		Pit SY53131
9838	IC18-0180		Pit SY53131
9840			Pit SY53153
9841			Pit SY53153
9854	IC18-0192		Pit SY53161
9855	IC18-0206		Pit SY53161
9856	IC18-0229		Pit SY53161
9857	IC18-0192		Pit SY53161
9858	IC18-0186		Pit SY53191
9882	IC18-0354		Pit SY53218
9883	IC18-0351		Pit SY53218
9884	IC18-0356		Pit SY53218
9897	IC18-0355		Pit SY53218
9961	IC18-0503		Pit SY53191
9973	IC18-0618		Pit SY53202
9974	IC18-0618		Pit SY53202
9978	IC18-0618		Pit SY53243
9982	IC18-0618		Pit SY53243
9986	IC19-0017		Pit SY53218
9988			Pit SY53218
9991			Pit SY53218
9996	IC19-0093		Pit SY53218
10000	IC19-0017		Pit SY53218
10001	IC19-0017		Pit SY53218
10004	IC19-0073		Pit SY53242
10005	IC19-0073		Pit SY53242
10006	IC19-0073		Pit SY53242
10007			Pit SY53242
10010			Pit SY53242
10011			Pit SY53242
10012			Pit SY53242
10013			Pit SY53242
10021	IC19-0093		Pit SY53242
10022	IC19-0093		Pit SY53242
10023	IC19-0093		Pit SY53242
10024	IC19-0093		Pit SY53242
10030	IC19-0041+...		Pit SY53218
10031	IC19-0041+...		Pit SY53218
10032	IC19-0051		Pit SY53218
10033	IC19-0040		Pit SY53218
10034	IC19-0040		Pit SY53218
10035	IC19-0040		Pit SY53218
10046	IC19-0187		Pit SY53218
10047	IC19-0187		Pit SY53218
10048	IC19-0187		Pit SY53218
10056	IC19-0191+...		Pit SY53218
10057	IC19-0191+...		Pit SY53218
10058			Pit SY53218
10061	IC19-0209		Pit SY53218
10062	IC19-0209		Pit SY53218
10064	IC19-0082+...		Pit SY53218
10065	IC19-0114		Pit SY53218
10089	IC19-0192		Pit SY53218
10093	IC19-0191+...		Pit SY53218
10104	IC19-0188		Pit SY53218
10105	IC19-0188		Pit SY53218
10106	IC19-0227		Pit SY53218
10107			Pit SY53218
10108	IC19-0227		Pit SY53218
10110	IC19-0186		Pit SY53218
10149	IC19-0314		Pit SY53161
10160	IC18-0180+...		Pit SY53142
10175	IC18-0180		Pit SY53142
10176	IC18-0180		Pit SY53142
10177	IC18-0180		Pit SY53142

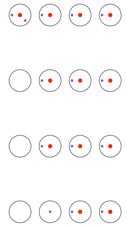
You are working near Transmission Cables. You must contact Ausgrid on (02) 4951 9200 at least two weeks before work commences. See Ausgrid Network Standard NS156.

SY134 - KN1



Ref: F3

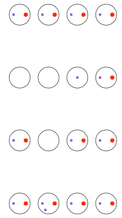
SY134 - AN4



16x125 PVC
6.5-9.5
1.4-1.9

Ref: D9

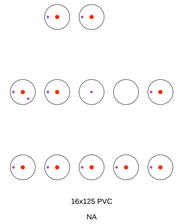
SY134 - FU4



16x125 PVC
8.0-8.9
1.1-1.5

Ref: C9

SY134 - GK1

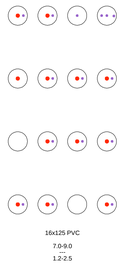


16x125 PVC
NA
1.0-1.6

BETWEEN PIT1 AND BEND 11
CONDUITS UNDER CAST IRON
PIPES, 5 CONDUITS OVER 29.5.88
BK 1991/60.61

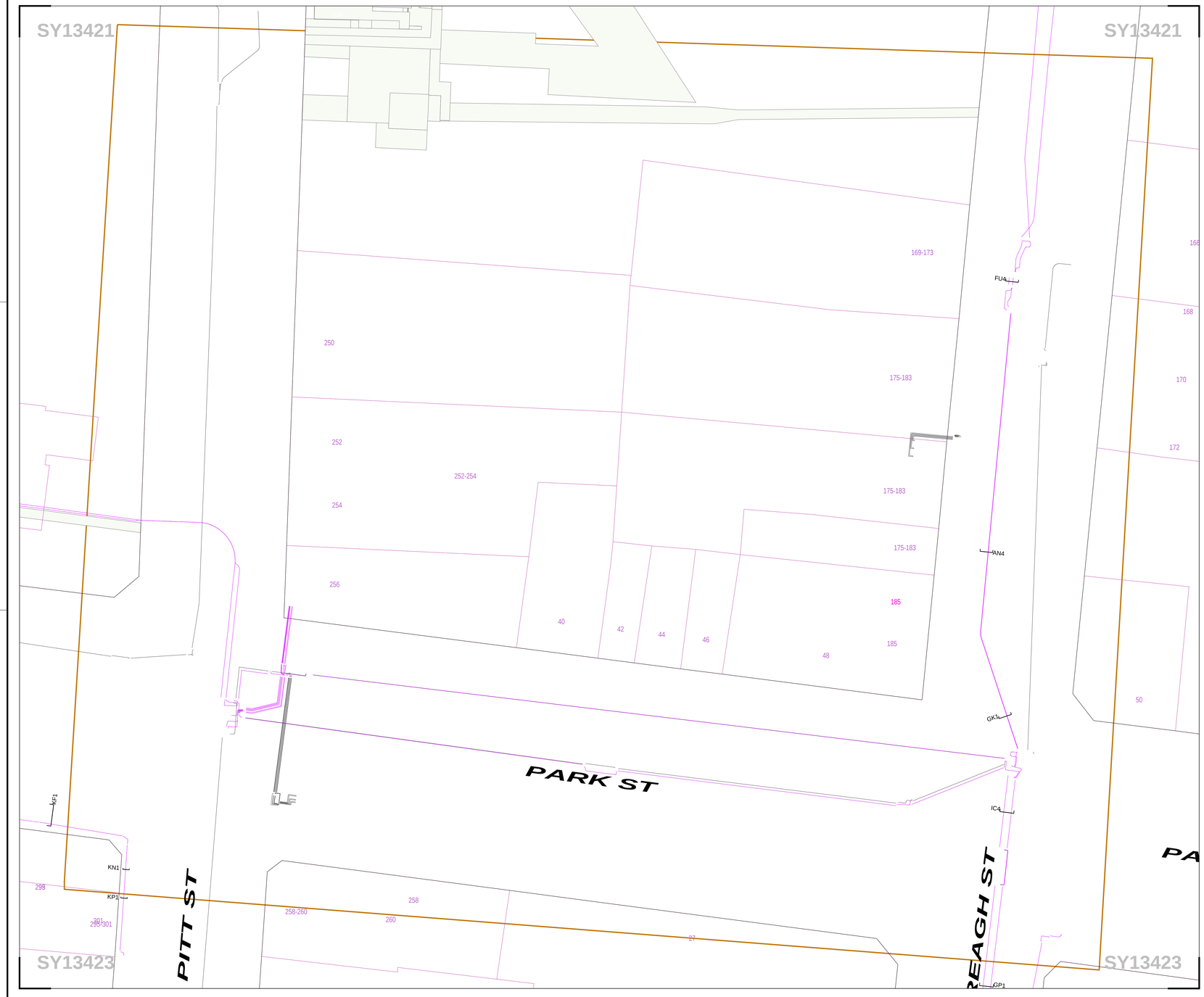
Ref: E9

SY134 - IC4



16x125 PVC
7.0-9.0
1.2-2.5

Ref: F9



WARNING

Ausgrid's plans show the position of assets at the time of installation and may not account for subsequent changes to road alignments, fences or buildings. The plans show no more than the presence or absence of Ausgrid assets in the area.
Persons working near electricity networks must exercise care and will be held responsible for any damage caused.
You must excavate by hand or use vacuum excavation to establish the location of Ausgrid underground cables and associated assets.
Underground: Working near a cable may result in electric shock even if no contact is made. Any work in the vicinity of any cable should only be performed using safe work methods developed in accordance with the recommendations included in SafeWork NSW Code of Practice for Excavation and SafeWork NSW Guide for Work Near Underground Assets
as well as recommendations of Ausgrid's Network Standard NS156.
Overhead: Do not excavate near poles or towers until the stability of the foundation has been assessed by Ausgrid. Cables or earth conductors may be connected to guy wires, poles or towers.
Workers must maintain safe approach distances and follow applicable SafeWork NSW Codes of Practice.
NOTE: 1. You must keep Ausgrid plans on site during excavation works. If the people actually performing the excavation works do not know how to read and interpret Ausgrid's plans, then the work must be directed by a person who knows how to read and interpret the plans. 2. This information includes data from the NSW Digital Cadastral Database by Land and Property Information (c) 2016, used under Creative Commons licence version 4.0

SY13412	SY13421	SY13422
SY13414	SY13423	SY13424
SY13432	SY13441	SY13442

ISG GRID

355	345	335
356	346	336
357	347	337

GRID

GMLA0

Transmission - 92397594

INFORMATION ON THIS PLAN ONLY VALID FOR 30 DAYS FROM ISSUE DATE

Page 1 of 1

22 Nov 2019

N

1:198

0 — 12 metres

Ausgrid

A0 TR_MOCS_std_plot

TR_E_92397594_GMLA0_V1.mapd

Ausgrid

Emergency Phone Number 131388

IMPORTANT INFORMATION

YOU MUST BE AWARE THAT:

1. There may be underground cables owned by other utilities, in the vicinity of your work, about which Ausgrid has no information.

2. Ausgrid does not usually keep plans of privately owned underground cables or its underground service cables on private property. (Refer NS 156 for further information.)

YOU MUST MAKE YOUR OWN ENQUIRIES IN RESPECT OF THESE CABLES.

YOU MUST UNDERSTAND THAT:

1. Ausgrid takes all reasonable care in providing details of its underground cables. However, owing to changes in road and footway alignments and levels, and the age and incompleteness of some records, it is not possible to conclusively specify the location of all of Ausgrid's underground cables. The accuracy and completeness of the information provided to you cannot be guaranteed. It is intended to be indicative only. It must not be **solely** relied upon when undertaking underground works.

2. Except to the extent that liability may not be capable of lawful exclusion, Ausgrid, its servants and agents will be under no liability whatsoever to any person for loss or damage (including indirect or consequential loss or damage) however caused (including without limitation, for breach of contract, negligence and breach of statute) which may be suffered or incurred from or in connection with the advice provided.

3. Due to the inherent dangers associated with **excavation, under boring and directional drilling** in the vicinity of underground cables, precautions must always be taken when undertaking any underground works. Ausgrid's Network Standard NS 156 specifies standards for working in the vicinity of underground cables. It is deemed to be part of this Advice, and it must be read by you.

4. Due to the inherent risk of compromising the stability of Ausgrid's power poles during excavation which could lead to pole movement or collapse, precautions must always be taken. If excavation is to be carried out within 1m from a power pole, Ausgrid must be contacted at construction.works@ausgrid.com.au for advice. Do not proceed until you have received such advice from Ausgrid.

YOU MUST READ NETWORK STANDARD NS 156, *WORKING NEAR OR AROUND UNDERGROUND CABLES.* IT IS PART OF THIS ADVICE.

Reading Ausgrid Plans
COMN0119

1 Property Lines

"property line" (PL), sometimes referred to as **"building line" (BL),** is the standard dimensioning reference point on all Ausgrid plans and represents property boundaries.

Typically the PL is the boundary between private property and local council's footpath area or nature reserve. Most residential fences and office blocks are erected along the PL.

"kerb line" (KL) is less frequently referred to on Ausgrid plans, and where used will be identified clearly as KL.

Numbers listed within property boundaries should correspond to recognised "street numbers" (refer to figure 1).



Figure 1

2 Datum References

"datum references" identify distances (in metres) from significant features (such as corners of property boundaries) to reference points such as Ausgrid assets (eg: "conduits", "cables", "joints") (refer to figure 2).

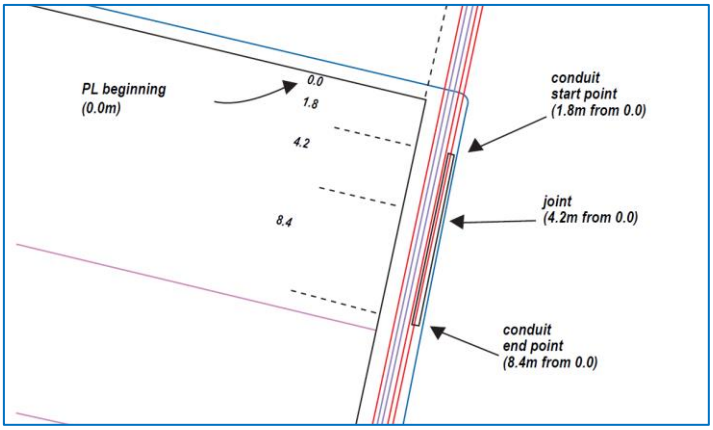


Figure 2

3 Cross Sections

A "cross sections" displayed on Ausgrid plans detail information relating to the relative position (ie: distance from the **"property line",** and the depth of **"cover"**) of Ausgrid assets.

"Cover" is a term used to refer to the depth of cables underground.

A "cross section" leader line will be drawn indicating the location of the displayed **"cable"** or **"conduit"** information on Ausgrid plans.

The distance from **"property line"** (in metres) and depth of **"cover"** (in metres) references are displayed as; ie: 0.6 metres from PL and 0.5 metres underground.

Where distance and cover are not recorded, they will be clearly marked as **"NR".**

NOTE: Distance and cover where indicated may be different to the actual position of the cables (eg: fill may have been placed at site that has changed the ground level).

"PL" distance shown in cross sections is an indicative measure to the centre of the trench allocation from the adjacent property line.

On some plans the "cross sections" may also be shown with a specific number (eg: HR1). This number will match with a cross section detail found in the border of the plot or on a separate plot page (refer to figures 3 and 4).

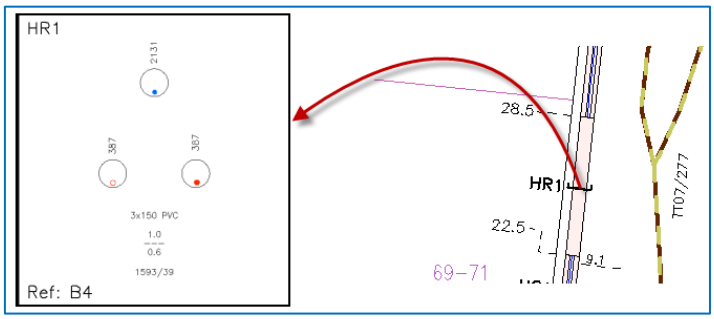


Figure 3

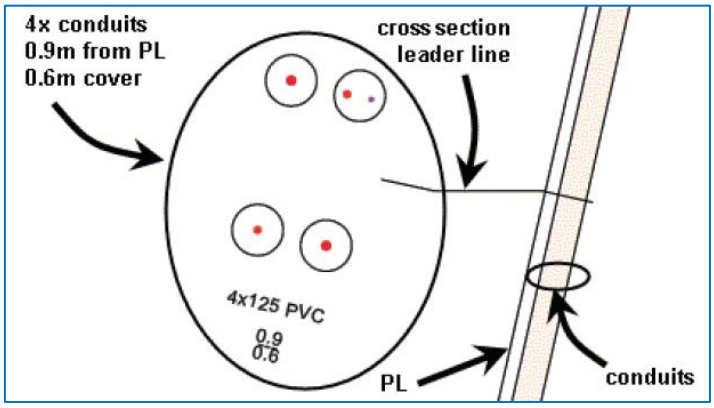


Figure 4

4 Cable Joints and Joint Reports

"cable joints" (numbered individually) and **"joint reports"** (attached to Ausgrid plans) can provide information relating to the relative position of Ausgrid assets, distance from the "property line" (in metres), and the depth of "cover" (in metres) (refer to figures 5 and 6).

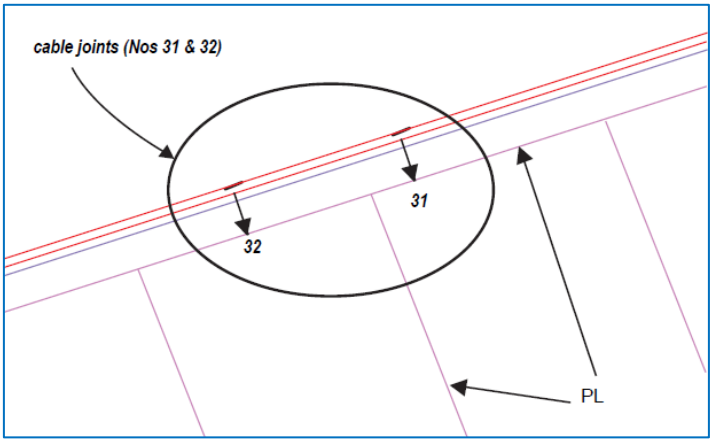


Figure 5

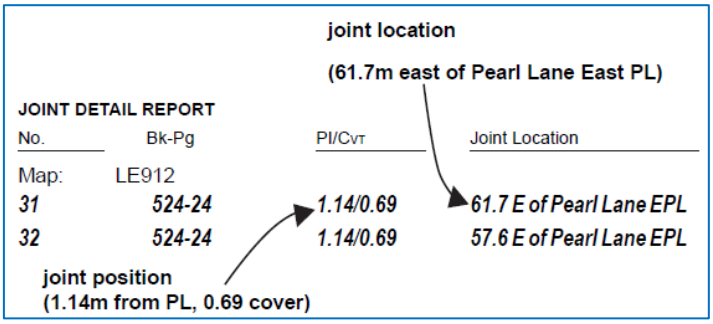


Figure 6

5 Cross Section Detail Boxes

"cross section" detail boxes on the sides of an Ausgrid plan are used when there is insufficient room to display **"cable"** and/or "conduit" information on the Ausgrid plan.

Ausgrid plans (refer to figure 7) are bordered by numeric identifiers along the top and bottom borders and alpha identifiers along the side borders.

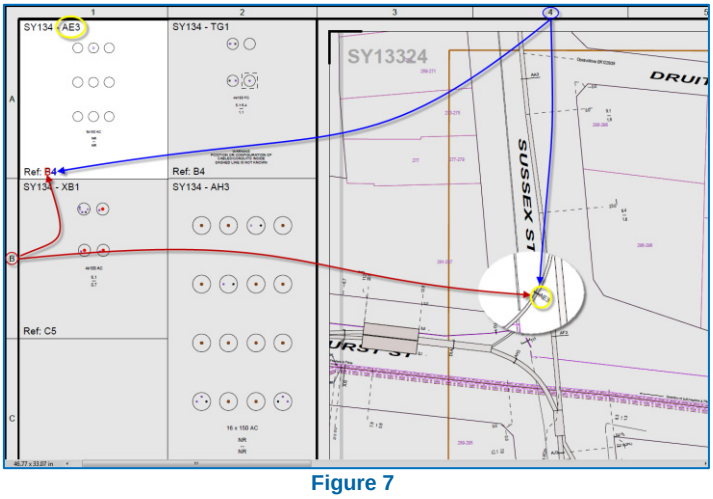


Figure 7

"Cross section" leader line and annotation is drawn on the Ausgrid plan for a reference to **"cable"** and/or **"conduit"** information in the **"cross section"** detail boxes.

6 Pits

Underground **"pits"** are numbered on Ausgrid plans, positioned relative to the **"property line" (PL)**, and can be found on either the footpath (nature strip) or the road (refer figure 8).

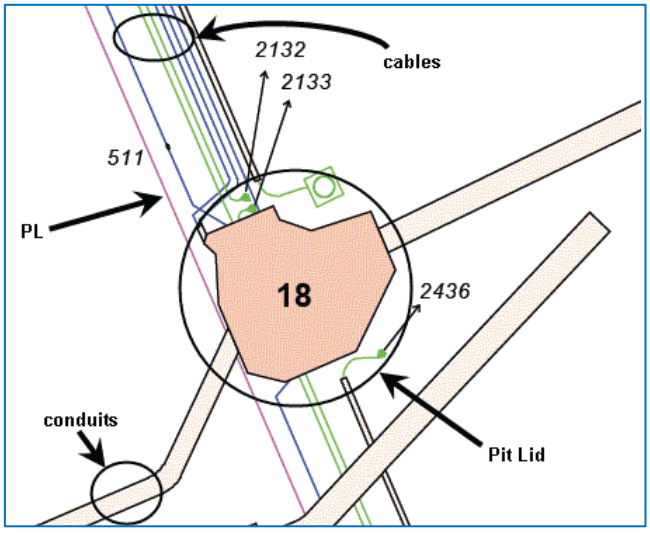


Figure 8

7 Proposal Areas

There are areas where underground work may have been issued for construction by Ausgrid, but details are not yet completely displayed on Ausgrid plans. In such cases a shaded **"proposal area"** is displayed on the Ausgrid plan, indicating underground work may have commenced in the vicinity but is not yet complete.

In some instances cables and other assets within the shaded **"proposal area"** will be shown in a **bright magenta** colour, indicating that the proposed new work displayed within the shaded area is based on initial planning documentation (refer to figure 9).

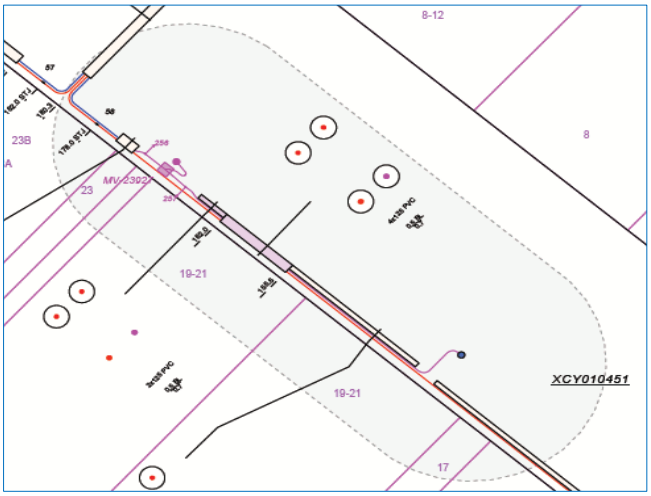


Figure 9

In other instances the shaded **"proposal area"** itself may be shown as a blue colour, indicating that the new work displayed within the shaded area on the Ausgrid plan is yet to include details regarding final depths and dimensioning (refer to figure 10).

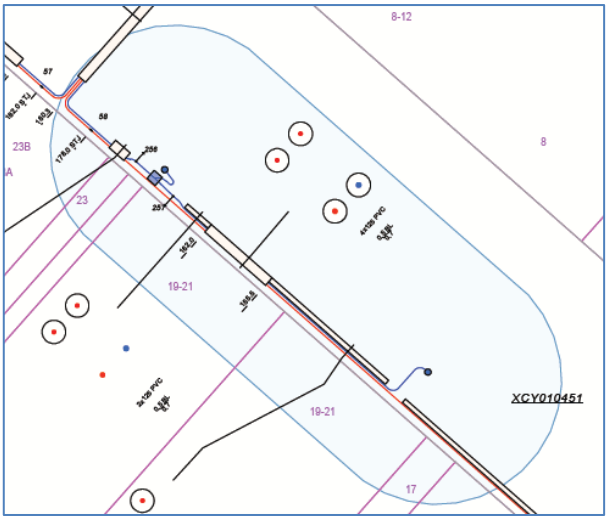


Figure 10

NOTE: In cases where these shaded **"proposal areas"** are displayed on Ausgrid plans.

"Ausgrid's design plans showing the proposed position of its underground cables, overhead lines and structures have been prepared solely for Ausgrid's own planning use. They show the proposed position of such underground cables, overhead lines and structures as proposed at the time of planning and have not necessarily been corrected to take into account any changes to road widths, road levels, fences and buildings subsequent to proposed installation.

Actual installations may vary from proposed installations as it may be necessary to take account of unforeseen above ground or subterranean constructions. Therefore, Ausgrid does not hold out that the design plans show more than the proposed presence or absence of its underground cables, overhead lines and structures in the street and will accept no liability for inaccuracies in the information shown on such design plans from any cause whatsoever."

Any further information regarding information displayed for "proposal areas" can be obtained by contacting the Ausgrid DBYD office at the number indicated on the response to your DBYD enquiry for further information.

8 Ausgrid (ISG) Map Grid

The pale grey line indicates the **1:1000 Ausgrid (ISG) map grid** border. The pale grey annotation located in the corners of the Ausgrid plan window, indicates the 1:1000 Ausgrid (ISG) map grid reference.

The **1:1000 Ausgrid (ISG) map grid** border and reference on Ausgrid plans should be used when reading the **"joint report"** (see part 4 of this document for more detail) to accurately locate underground cables.

The buffer area shown on the plan should relate to the area requested on the original Dial Before you Dig request.

The **grid index box** can be used for reference where necessary (located in the bottom right corner of the Ausgrid plans), and will also indicate the buffer area shown on the plan.

9 Ausgrid "Distribution" and "Transmission" Plans

The Ausgrid plans supplied may identify both **"distribution"** and **"transmission"** voltage assets for the area defined in the DBYD request (refer to figure 11).

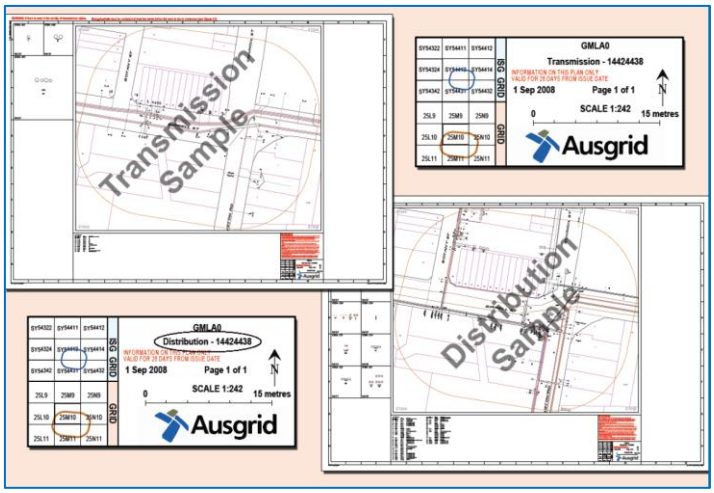


Figure 11

In the Sydney region, the Ausgrid plans are separately labelled as "**Distribution – nnnnnnn"** and **"Transmission – nnnnnnn"**, where **"nnnnnnn"** refers to the DBYD sequence number quoted.

In the Hunter region, the Ausgrid plans show combined **"distribution"** and **"transmission"** voltage assets, and are clearly labelled as **"Distr + Trans – nnnnnnn"** where **"nnnnnnn"** refers to the DBYD sequence number.

In the Hunter region, some DBYD requests are covered by PENGUIN grid references. In such cases, the Ausgrid Plans show the grid quoted with a cross-reference to a corresponding Ausgrid (ISG) map grid (eg: PENGUIN 136B3 – DP711, where DP711 is the Ausgrid (ISG) grid) to optimise the legibility of plans due to PENGUIN grid scale.

Some Hunter plans may have transmission cables in the area, when these cables are present there will be a warning printed at the top of the plan supplied:

WARNING: If there is work in the vicinity of transmission cables, Ausgrid must be contacted at least two weeks before the work is due to commence.

10 "Shifting Land Base" on Ausgrid Distribution and Transmission Plans

In some instances, the plans supplied may indicate road or property outlines that appear to have shifted in relation to the Ausgrid assets displayed (refer to figure 12).

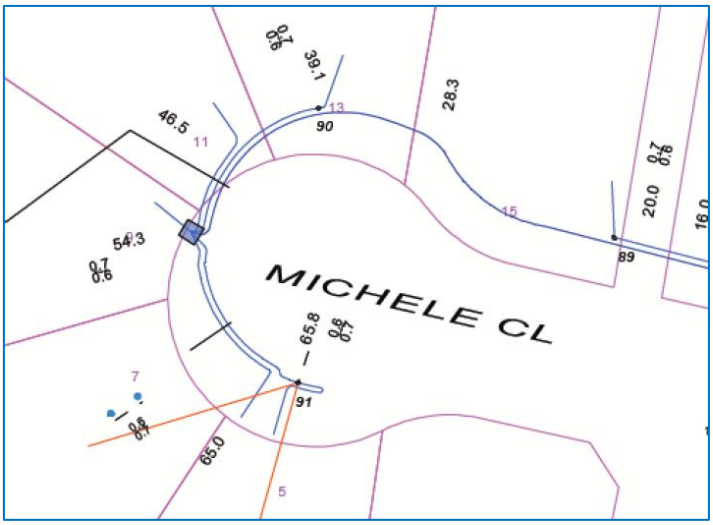


Figure 12

In such instances, always refer to the **"property line"** (in metres) and depth of **"cover"** (in metres) references displayed on the nearest relevant **"cross sections"** to obtain Ausgrid asset location information (*see* Reading Ausgrid Plans, clause 3, Cross Sections for more detail).

11 "Underground Earthing Infrastructure"

In some instances, the plans supplied may also indicate the presence of underground earthing infrastructure associated with underground and/or overhead Ausgrid assets.

The **"Earth Point"** symbol (refer to figure 13) will be shown on plans to minimize risk of disturbance or damage to any Ausgrid underground earthing infrastructure in the vicinity.

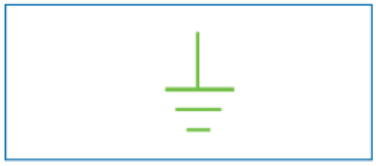


Figure 13

12 Hazardous Cables – Specific Excavation Hazard

Certain cables specifically illustrated in figures 14 and 15 below are susceptible to deterioration that may pose a risk of electric shock when working near them, particularly in damp ground.

For all work on or near Ausgrid's network (where workers have been trained in Ausgrid's "Work Near Underground Power Lines" course) the work practices outlined in NS199 "Safe Electrical Work on Low Voltage Underground Assets" must be adhered to.

All other persons must contact Ausgrid before excavating near these cables to arrange for appropriate precautions to be applied.

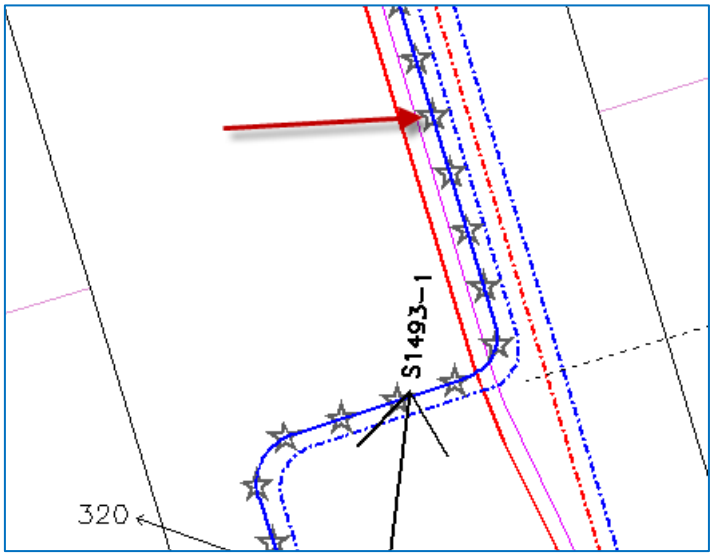


Figure 14

The **"star"** symbols over the cable indicate that it is susceptible to this deterioration.

Cables that are in duct lines have this symbology covered so an at-risk cable is indicated only within a cross section by a **"#"** appended to its cable code as illustrated below.

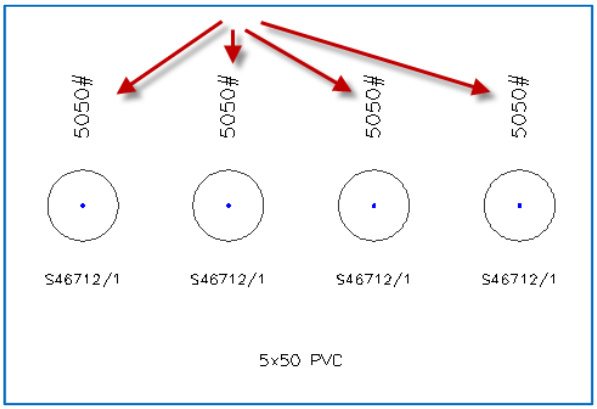


Figure 15

Ausgrid Underground Map Symbology

NOTE: Please note symbology is subject to change. This document provides underground (UG) related objects only. In cases where you are unsure of the data presented, please contact Ausgrid's DBYD for clarification *prior* to any planning/excavation works.

Object		Symbol
HV Cable	HV (High Voltage) 5kV-22kV	In Service Out of Service
	TR (Transmission) 33kV – 330kV	In Service Out of Service
LV Cable (Low Voltage)	Mains (Dark blue)	In Service Out of Service In Service Risk
	Street Lighting (Green) Note: Mains Connector also used as Street Lighting (dark blue)	In Service Out of Service
	Service (Light blue)	In Service Out of Service In Service Risk
	Unknown	
Auxiliary Cable	Data Comms Telco Protection Fibre Optic Pilot	In Service Out of Service

Object		Symbol
HV UG Joint	Straight Through, Parallel Branch or Tee	
	Switchgear, End Box or Transition	
HV UG Termination	Sealed end	
	Pot End	
	UGOH	
HV Cable Repair	5kV-330kV (HV & TR)	
LV UG Joint	Straight Through, Parallel Branch, Tee or Service	
	Network Box	
LV UG Termination	Switchgear, End Box or Transition	
	Sealed end	
	Pot End	
	UGOH	

Object		Symbol
Auxiliary Fix	Pilot Window	
Auxiliary Joint	Straight Through, Parallel Branch or Tee	
Auxiliary Termination	UGOH or Pole Termination	
	Pilot	
	UGOP-ADSS Termination	
Cable Pit (Can be various shapes)	Auxiliary	
	Distribution	
	Transmission	
LV Pillar	Distribution	
	Switch	
	SL Pillar	
	SL Cubicle	
	Fargo	
	Private	
LV Auxiliary Pillar	All Types	
LV Link Box	2 Way & 4 Way	

Ausgrid Underground Map Symbology

Object		Symbol
Substation	Cottage & Chamber	
	Ground & Subtransmission Ground	
	Kiosk & Subtransmission Kiosk	
	Zone	
	Transmission	T
	Bulk Supply Point	BSP
	Metering Station & Subtransmission Metering	
Switching Station	Isolating & Earth	
	Other – OH & UG	
	Ring Main Unit	
Earthing	UG Earth Cable	
	Earth Point	
Frequency Marker	Distribution and Transmission Power	FM Ball or Disc Type Marker
	Auxiliary Communications	FM Ball or Disc Type Marker
	Distribution and Transmission Power	Tape Marker
	Auxiliary Communications	Tape Marker

Object		Symbol
Trench	Centreline	
Conduit (Can be various shapes)	Coverage (Distribution)	
	Coverage (Transmission)	
	Coverage (Underbore – cross hatched)	
Cross Section	Marker (Staple)	
	User Line	
Measure-ment Point		
Miscella-neous Point Feature	Cable Clamp	
	Cable Core split (Trifurcation)	
	Cable Marker	
	Electrolysis Point	E
	End Of Pipe	
	Frequency Injection Unit	IU
	Gas Charger	G
	Gas Control Cabinet	
	Gas Control Kiosk	
	Gas Control Point	
	Gas Control Valve	GV
	Gatic Pit lid	

Object		Symbol
Miscella-neous Point Feature	Inspection Box	
	Link point	
	Oil Control Valve	
	Oil Gauge	
	Oil Tank	
	Sniffer Box	
	Thermocouple Box	
	Transmission Cable Marker	
	Transmission Link Point	
Miscella-neous Linear Feature	All Geometries	
Map Note	Location & Text	Text about note
Dimension Feature	Placement Change	

Ausgrid

Working near
Ausgrid cables

Finding out what's below the surface can save your life.

Call Dial Before You Dig on **1100** or visit **1100.com.au**



Ausgrid

Changes in the Law.

NSW legislation now requires people who are planning to do excavation work to obtain copies of underground electricity cable plans through Dial Before you Dig (Phone 1100) and to make sure that the plans are no more than 30 days old when excavation commences.

The aim of the legislation is to ensure that when workers dig near electricity cables, they will establish the exact location of the cables and thus avoid coming into contact with them or damaging them. This will ensure worker safety and also prevent disruption to Ausgrid's electricity network.

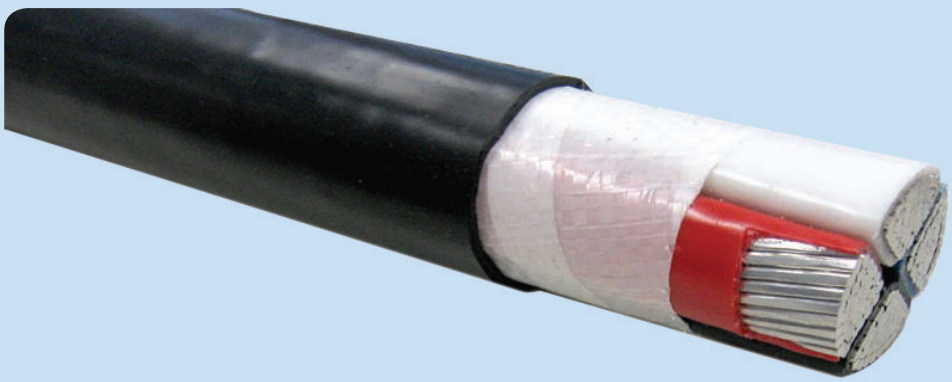
This brochure gives you a brief overview of how to prepare for excavation works near or around electricity cables. It is important that you also consult our guide How to Read Ausgrid Plans and make sure that workers engaged in excavation works fully understand how to read the plan. If the people actually doing the digging can't read the plans, it is essential that the work is directed by a person who has been trained to read Ausgrid's plans.

You must also consult Ausgrid's Network Standard NS156, which contains comprehensive information concerning all the issues that arise when excavating near underground cables (such as safety hazards from asbestos conduits and organochlorine pesticides).

Excavating near transmission cables.

If any cable plan you receive says "You are working near transmission cables" it is compulsory to notify Ausgrid two weeks before work is scheduled to begin. Ausgrid will then arrange for an Ausgrid representative to attend the site during excavation work.

Phone the Ausgrid Transmission enquiries line on (02) 4951 9200 to arrange for an Ausgrid representative in your region.



Be prepared. Wise words for safety at work.

Here are some simple precautions you and your workers need to follow in order to be as safe as possible.

- Make sure that your Dial Before You Dig (DBYD) plan is less than 30 days old
- Keep a copy of the cable plan on site at all times
- Make sure the excavation work is conducted or directed by staff who are trained to read the plan
- Hand dig until the exact location of the cable has been established
- Have on site at all times a first aid kit and a person trained in resuscitation
- Wear protective clothing, including safety footwear and safety helmet
- Have emergency contact numbers on site
- Set up safety barriers, witches hats and warning lights to reduce the risk of injury to the general public
- Comply with all SafeWork NSW requirements and codes.

See also:

- **SafeWork NSW Guidelines: Work Near Underground Assets**
- **SafeWork NSW Code of Practice: Excavation Work**
- **SafeWork NSW Code of Practice: Work Near Overhead Powerlines (if applicable).**

Before you start. Complete the checklist. Stop and look around.

Before you start excavating, consult the flow chart and fill in the checklist at the end of this brochure.

Then, be sure to look for clues where cables might be located on the site: for example pits, distribution pillars (green and other colours), cables attached to the side of poles, street lights without overhead wires.







Do all power cables look the same?

No. Power cables come in different sizes, colours and coverings. They may be covered in black plastic sheath, steel wires in a sticky bitument like material, or even a simple lead or steel wire/tape sheath.

What else should I look for below ground level?

Cables may also be buried in orange PVC or PE conduits or even in earthenware or steel pipes. A bank of cables may be covered with electrical bricks, plastic warning markers or protective covers, or they may not be covered at all. If they have been buried close to the surface, they may be covered by concrete slabs or steel plates.

When in doubt, ask Ausgrid.

If you have any questions about excavating near Ausgrid cables, read **NS156** (available at ausgrid.com.au).
For further information call 13 13 65.

You've taken every precaution but accidents still happen. What now?

If you damage an electricity cable, it is compulsory to notify Ausgrid on **13 13 88**.

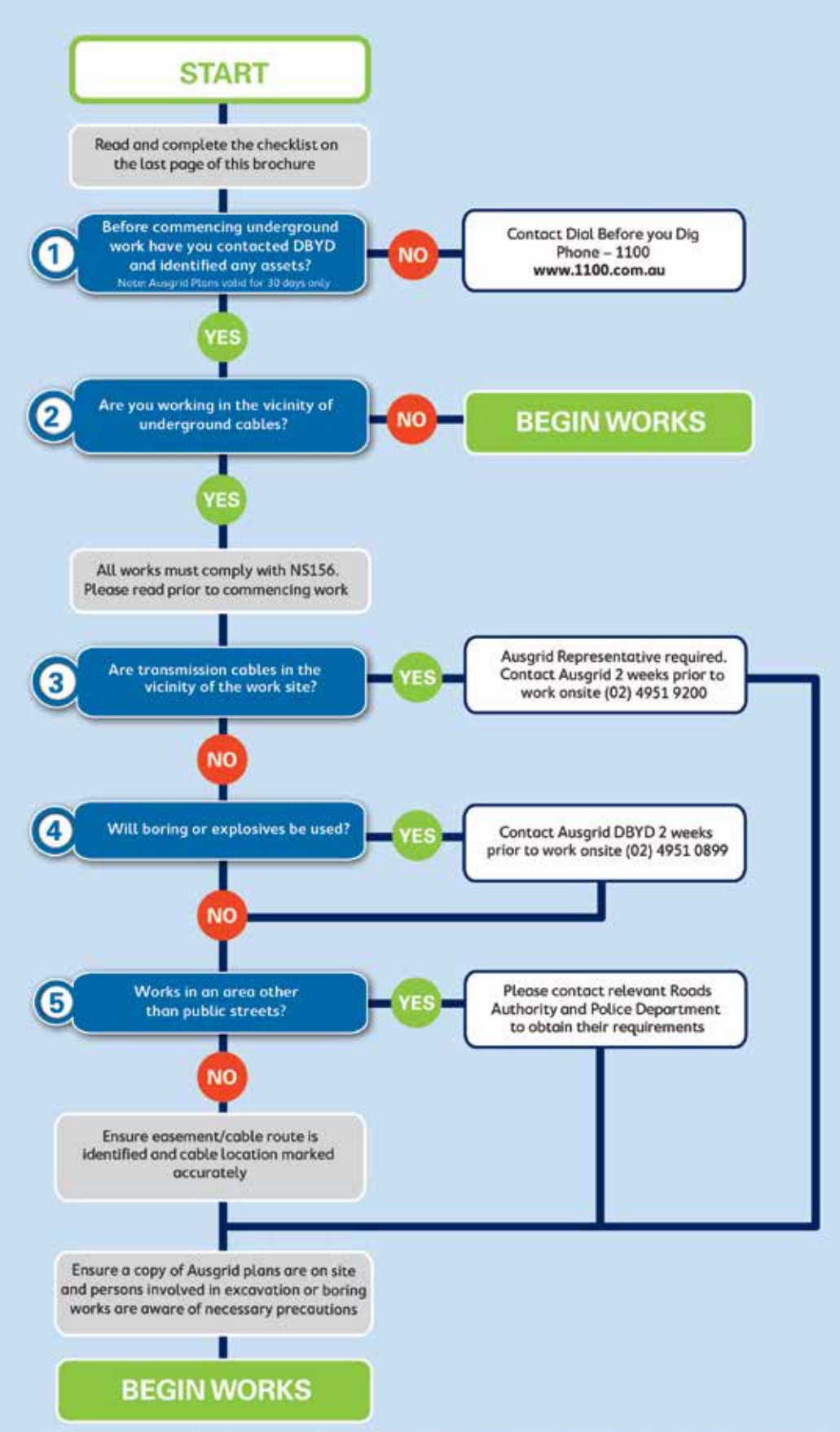
Striking power cables can cause serious damage to the cables and endanger the lives of anyone who comes in contact with them. Machinery and hand operated plant such as jack hammers can become alive if it is in contact with electrical cables or equipment. Keep people well away from machinery and the work site if contact is made with a cable.







Flow Chart for work near Ausgrid Cables



Ausgrid Checklist for work near or around underground cables

It is the responsibility of the Constructor to ensure that underground pits, ducts and cables are not damaged as a result of construction work. It is also your duty to protect your workers from harm or injury. This Checklist is intended to be used as a guide to what Constructors should do to make sure they have satisfied the minimum requirements to minimise damage to underground networks.

PLANS, LOCATION and NOTIFICATIONS	Completed
All relevant utilities plans obtained from Dial Before You Dig? (call 1100 – allow at least 5 working days for plans).	
Checked issue date on all the above plans to ensure issue was within the last 30 days?	
Examined plans and assessed all possible impacts on Ausgrid's network?	
Do you have both Underground Distribution and Transmission Plans (if applicable), on site at all times?	
All cables and conduits shown on the Ausgrid plans been located and marked on the ground?	
If you are planning to use a bore, have you ensured that the equipment is calibrated?	
Have you read and understood the requirements of NS 156? (for copies of NS 156 visit Ausgrid's Website or phone Ausgrid DBYD Office (02) 4951 0899) **www.ausgrid.com.au**	
Have you notified Ausgrid as specified by NS 0156 and complied with requirements? Where an Ausgrid representative is required, two weeks notice is required before work commencing on site. Contact phone number for Transmission cable enquiries is (02) 4951 9200. For all other cases contact Ausgrid DBYD Office: (02) 4951 0899.	
INSPECTION OF WORK BY Ausgrid's REPRESENTATIVE	
Is the Ausgrid representative on site for any work near or around* any transmission cable before you start? (*Refer to NS 156.)	
For proposed work near or around* cables other than transmission and/or conduits, are any requirements specified by Ausgrid's representative clearly understood and ready to be applied before you start the work? (*Refer to NS 156.)	
PROTECTION	
Check that all people on-site have been made aware of the presence and location of ALL Ausgrid underground cables and/or conduits; especially boring, drilling and trenching machine operators?	
Is there any asbestos or asbestos containing material in Ausgrid's underground network assets?	
Have you checked for the presence of any Organo-Chloride Pesticides (OCP) in transmission trenches?	
Is the site supervisor monitoring all machine operators working near or around Ausgrid's underground cables and/or conduits?	
Are the requirements specified by Ausgrid's representative being followed?	
Are Ausgrid's requirements in place for any exposed cables and/or conduits to be supported and protected?	
Have you marked all exposed underground cables and/or conduits with flags that are clearly visible from within all machinery used on-site?	
Have safety barriers, fencing or para-webbing been erected to protect staff and the public as well underground cables and/or conduits in areas that are at risk?	
Have safety barriers, fencing or para-webbing been erected to protect staff and the public as well underground cables and/ conduits in areas that are at risk?	

In the event of DAMAGE to Ausgrid's cable or conduits, call 13 13 88 immediately.
PROCEED with CAUTION

It is your responsibility to protect Ausgrid's cables and conduits from damage and your Duty of Care to protect your workers from harm or injury.

Signed: _____ **Date:** _____ / _____ / _____

Responsible person on site

For more information call 13 13 65 or visit www.ausgrid.com.au

GPO Box 1591 Sydney NSW 2001 • Town Hall House, 456 Kent Street Sydney NSW 2000
p (02) 9265 9333• **f** (02) 9265 9222 • **e** council@cityofsydney.nsw.gov.au • www.cityofsydney.nsw.gov.au

Dial Before You Dig (DBYD): Asset Location Response

LCI - Ms Yiqing Kong
Level 4 73 Walker St
North Sydney NSW 2060
alison.kong@lciconsultants.com.au

City of Sydney has been advised that you have placed an enquiry through the Dial Before You Dig service. Our records indicate the enquiry with the following details are affecting City of Sydney asset(s) as per the attached plans.

Enquiry Details	
Sequence Number	92397588
Enquiry Date	21/11/2019 14:24
Response	**AFFECTED**
Address	254 Pitt Street Sydney
Location in Road	CarriageWay,Footpath
Activity	Mechanical Excavation

It is important to read and understand all the information and disclaimers provided below and the responsibilities outlined in the attachment prior to commencing work(s)

Due to the nature and the age of assets and records, the accuracy and/or completeness of the information in the attached plan(s) cannot be guaranteed. The City does not make any representation or give any guarantee, warranty or undertaking as to the accuracy, currency, completeness, effectiveness or reliability of the information.

Plan(s) are indicative only and all information needs to be verified through field survey including the use of appropriately qualified personnel and equipment.

This information has been generated by an automated system based on the information specified by the Enquirer. It is the Enquirer's responsibility to ensure that the work site has been properly identified and is accurately reflected in the information provided by the City. If the information does not match the work site, resubmit your enquiry for the correct site.

To the extent of any inconsistency, the information contained in this document will prevail over any other information provided to you by the City and Dial Before You Dig.

Duty of Care

When working in the vicinity of City Assets you have a "duty of care" that must be observed.

Works or proposed works should be planned to allow for minimal impact and appropriate protection of City Assets.

Locating Assets

It is the Enquirer's responsibility to:

- Request plans of City Assets for a particular location at a reasonable time before work begins. If you have any doubts as to the exact location of City Assets, we strongly recommend that you engage the service of a suitably qualified locator; and
- Visually locate City Assets. For buried assets this should be done by hand digging or using non-destructive methods such as water jetting (pot holing) where construction activities may damage or interfere with City Assets.

Damage of Assets

Damage to City Assets must be reported immediately to 02 9265 9333 or council@cityofsydney.nsw.gov.au anytime, any day.

Enquirers and other parties undertaking works will be held responsible for all damage that occurs or impacts City Assets as a result of the works. This includes interfering with City Assets, conducting unauthorised modification works and interfering with City Assets in a way that prevents the City or a third party from accessing or using City Assets in the future.

The City reserves all rights to recover compensation for any Loss (including consequential losses).

Relevant Approvals

Relevant approval must be obtained prior to commencement of works on or near City Assets. The Enquirer is responsible to ensure that all requisite approvals have been obtained prior to works and that all works are undertaken in accordance with the requirements of any approval.

There is a variety of legislation, regulation and City policies that govern requirements for approval to install or modify City Assets. These requirements will also vary depending on the type of asset. Additional guidance may be provided in subsequent sections of this document. This is intended for guidance purposes only and is not comprehensive. It should also be acknowledged that standards may vary from time to time and the information supplied regarding approvals or standards may be out of date or superseded.

User Risk

The Enquirer acknowledges that they use the information at their own risk. In consideration of the information provided by the City to the fullest extent permitted by law:

- All conditions and guarantees concerning the information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded. To the extent that those statutory guarantees cannot be excluded, the liability of the City to the Enquirer is limited to the supplying of the information again;
- In no event will the City be liable for, and the Enquirer releases the City from, any Loss arising from or in connection with the information, including the use of or inability to use the information and delay in the provision of the information;
- The Enquirer will indemnify the City against any Loss arising from or in connection with the information and the works; and
- The Enquirer assumes all risks associated with the use of the Dial Before You Dig and City websites, including risk to the Enquirer's computer, software or data being damaged by any virus, and release and discharge the City from all Loss which might arise in respect of your use of the websites.

Glossary

"City" *means The Council of the City of Sydney.*

"City Assets" *mean those items that are under the ownership, care or control of the City*

"Enquirer" *is the person(s) or organisation(s) requesting or using the information.*

"Loss" *includes any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages).*

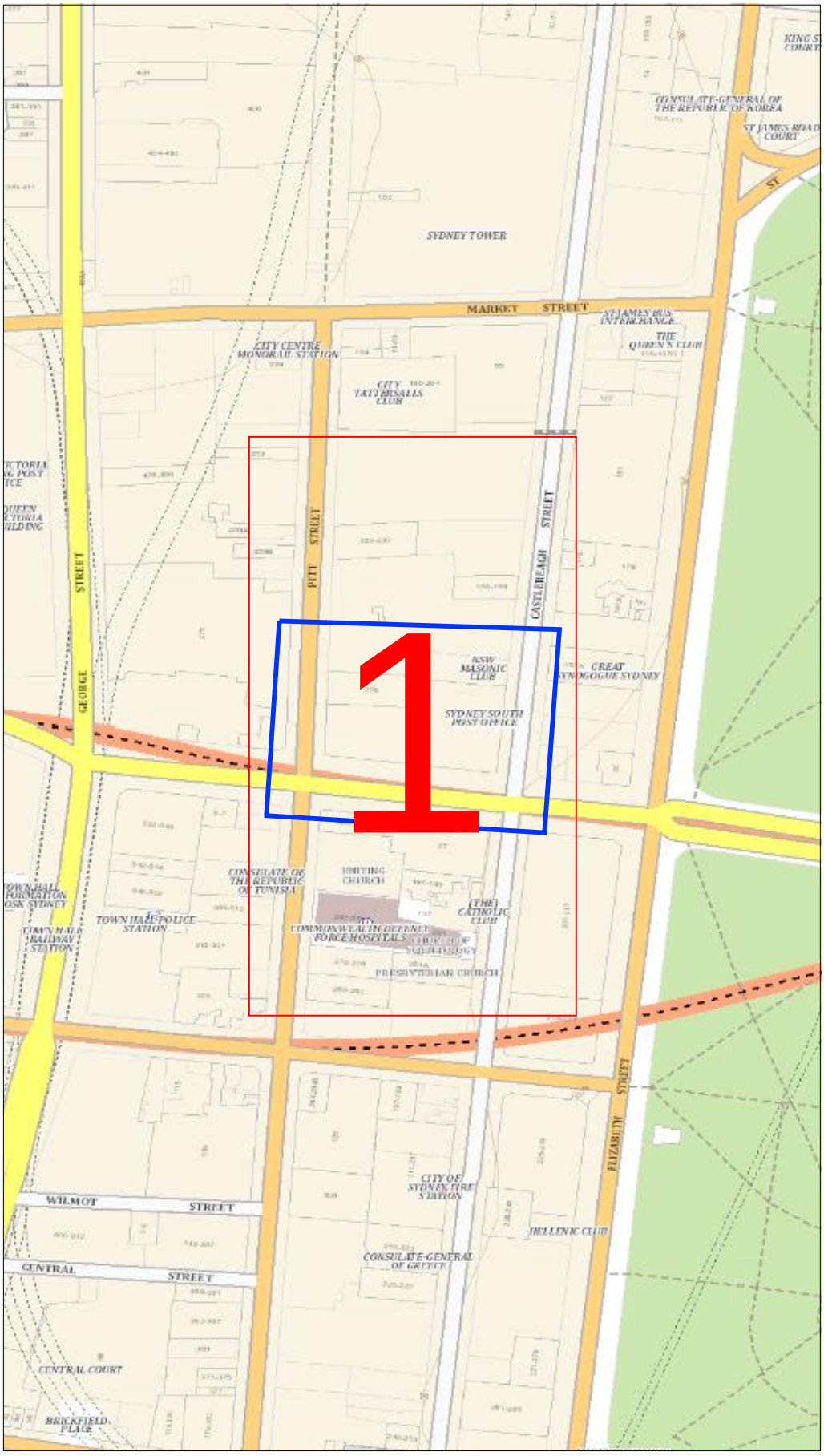
If you have any further enquiries in regards to assets affected in this referral, please contact the following:

- For **Survey Infrastructure** contact Don Urquhart or Paul Corry via email Surveyors@cityofsydney.nsw.gov.au or phone: (02) 9265 9333.
- For **Stormwater** contact Peter Garland or Shah Alam via email Stormwater@cityofsydney.nsw.gov.au or phone (02) 9265 9333.
- For **Electrical** contact Frank Morosin or Malik Huda via email Electrical@cityofsydney.nsw.gov.au or phone (02) 9265 9333.

Overview Map

Sequence No: 92397588

254 Pitt Street Sydney



LEGEND:

Affected DBYD Work Area

1 Detail Map

N

0 0.03km

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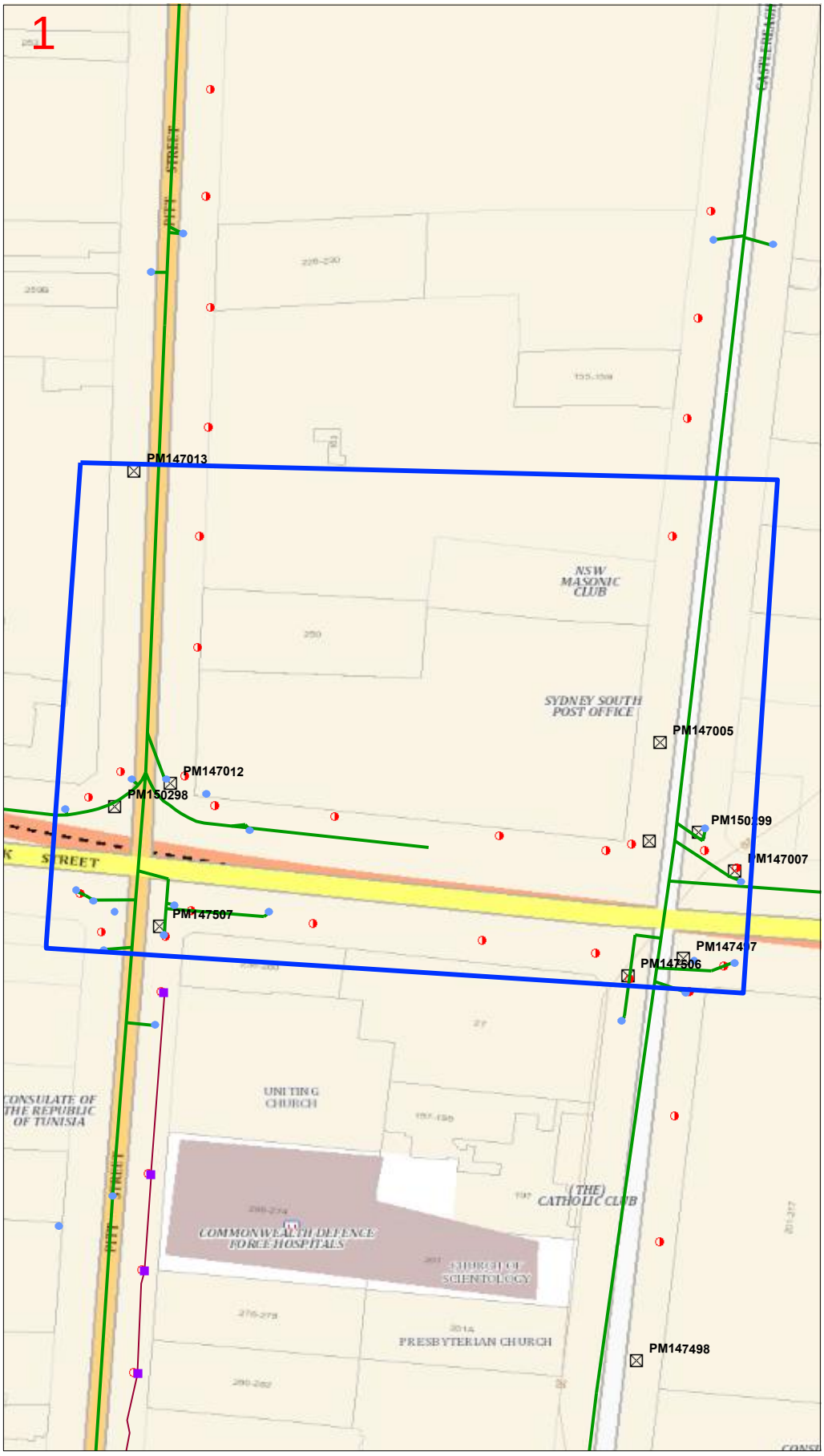
Map 1

Sequence No: 92397588

254 Pitt Street Sydney



LEGEND:

- Affected DBYD Work Area

Survey Infrastructure

- Permanent Mark
- Trigonometrical Station
- State Survey Mark
- Miscellaneous Mark
- Cadastral Reference Mark

Stormwater

- Stormwater Gross Pollutant Traps
- Stormwater Structures
- Stormwater Conduit
- Stormwater Raingardens

Electrical

- Lightning Points
- Smart Poles

Electrical Services

- Main Switch Board
- Distribution Board
- Special Small Service
- Electrical Pit
- Supply Feature
- Other

Electrical Conduits & Cables

- Underground
- Building
- Aerial

N

0 0.01km

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City of Sydney
Town Hall House
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Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au

GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au

Electrical Assets – Cables, Conduits, Lights & Poles

Attention: You must read and understand the information below prior to commencement of design or construction works on affected sites

Asset Ownership

Electrical assets within the City's local government area are owned by a number of organisations including Ausgrid, Roads and Maritime Services and other public or private entities. The City provides available information on electrical assets owned only by the City Of Sydney. The City does not explicitly or implicitly provide information on electrical assets owned by other entities.

Combined Electrical Networks

There are a number of electrical networks that supply City assets within the City's local government area. These assets are owned by Ausgrid and are not depicted on City plans. Information within these drawings may have to be read in conjunction with Ausgrid drawings to determine the connectivity between Council and Ausgrid assets.

Data limitations

Diagrammatic information regarding the existence of electrical assets is provided in accordance with the conditions and limitations stated in the City's documentation. It is the responsibility of the Enquirer to undertake appropriate site investigations to confirm details such as asset existence, ownership, location, type, dimensions, and levels.

The City has not undertaken survey to determine the position of its assets in relation to property boundaries. It is the responsibility of the Enquirer to ascertain the position of electrical assets in relation to property boundaries.

Electrical Services

Electrical Services such as switchboards, special small services, pits, or distribution boards can be impacted by construction at significant distances from these assets. It is the responsibility of the Enquirer to ensure that construction activity does not impact electrical assets.

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Survey Infrastructure – Permanent Survey Marks

Attention: You must read and understand the information below prior to commencement of design or construction works on affected sites

Important

Due to the nature and the age of Survey Infrastructure and records, the accuracy and/or completeness of the City's information cannot be guaranteed. The City does not make any representation or give any guarantee, warranty or undertaking as to the accuracy, currency, completeness, effectiveness or reliability of the information.

You should still undertake a thorough site examination for visible structures through field survey including the use of appropriately qualified personnel and equipment.

This information has been generated by an automated system based on the information specified by the Enquirer. It is the Enquirer's responsibility to ensure that the work site has been properly identified and is accurately reflected in the information provided by the City. If the information does not match the work site, resubmit your enquiry for the correct site.

To the extent of any inconsistency, the information contained in this document will prevail over any other information provided to you by the City and Dial Before You Dig.

Asset Ownership

Survey Infrastructure assets within the City's local government area have been placed by a number of organisations including Federal, State & Local Government bodies and other public or private entities. The City provides available information on Survey Infrastructure assets irrespective of ownership. The City does not explicitly or implicitly claim to own all assets indicated on the plans.

Identification

Mapped Survey Infrastructure within the City is typically a "Permanent Survey Mark" as prescribed in Schedule 4 of the Surveying & Spatial Information Regulation 2017 and may take one of three forms:

- A numbered brass disc set into concrete in the kerb, gutter or footpath (Type 1 or Type 2 State Survey Mark [SSM])
- A stainless steel pin or brass bolt set into concrete under a numbered steel cover box in the footpath or carriageway (Type 4 Urban Type [also known as PM])
- A small stainless steel disc and pin set into concrete in the kerb, gutter or footpath (Type 15 State Survey Mark [SSM Urban])

Sample images are included at the end of this form to aid identification.

If any such mark identified on the supplied mapping cannot be found on site please notify Surveyors@cityofsydney.nsw.gov.au prior to commencing work for further assistance.

In addition to mapped Survey Infrastructure, there may be unmapped marks and/or cadastral reference marks in one of the forms prescribed in Schedules 2 and 3 of the Surveying & Spatial Information Regulation 2017. These are shown on Deposited Plans available from NSW Land & Registry Services.

city of villages
Sydney2030/Green/Global/Connected

Legal Obligations

All Survey Infrastructure (including cadastral reference marks) are protected under Section 24 of the Surveying & Spatial Information Act 2002 and penalties may be levied for unlawful damage or destruction. For further details visit http://spatialservices.finance.nsw.gov.au/.

Clearances

Due to the nature of Survey Infrastructure and its sensitivity to disturbance, the following minimum clearances must be adhered to:

- 1000mm when operating pneumatic tools (jackhammers, vibrating plates etc.)
- 1500mm when operating mechanical excavators

Duty of Care

You must inspect your site for and identify existing Survey Infrastructure prior to commencement of works. You should divert any works to avoid disturbing them. If Survey Infrastructure is still at risk of being disturbed or destroyed, then in accordance with the Surveying & Spatial Information Act 2002, you must engage a registered surveyor to undertake necessary works as per Surveyor General's Direction No.11 "Preservation of Survey Infrastructure".

Further to this, in the case of City alignment marks, the Survey Infrastructure may then need to be reinstated by the City's Surveyors and a fee will be charged in accordance with the City's Fees and Charges.

Damage to Mapped Survey Infrastructure

Damage to mapped Survey Infrastructure must be reported immediately to 02 9265 9333 or council@cityofsydney.nsw.gov.au anytime, any day.

Enquirers and other parties undertaking works will be held responsible for all damage that occurs or impacts Survey Infrastructure as a result of the works. This includes interfering with Survey Infrastructure and conducting unauthorised modification works.

The City reserves all rights to recover compensation for any Loss (including consequential losses).

Relevant Approvals

Relevant approval must be obtained prior to commencement of works on or near Survey Infrastructure. The Enquirer is responsible to ensure that all requisite approvals have been obtained prior to works and that all works are undertaken in accordance with the requirements of any approval.

There is a variety of legislation, regulation and City policies that govern requirements for approval to install, remove or modify Survey Infrastructure. These requirements will also vary depending on the type of asset. Additional guidance may be provided in subsequent sections of this document. This is intended for guidance purposes only and is not comprehensive. It should also be acknowledged that standards may vary from time to time and the information supplied regarding approvals or standards may be out of date or superseded.

User Risk

The Enquirer acknowledges that they use the information at their own risk. In consideration of the information provided by the City to the fullest extent permitted by law:

- all conditions and guarantees concerning the information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded. To the extent that those statutory guarantees cannot be excluded, the liability of the City to the Enquirer is limited to the supplying of the information again;
- in no event will the City be liable for, and the Enquirer releases the City from any Loss arising from or in connection with the information, including the use of or inability to use the information and delay in the provision of the information;
- the Enquirer will indemnify the City against any Loss arising from or in connection with the information and the works; and
- the Enquirer assumes all risks associated with the use of the Dial Before You Dig and City websites, including risk to the Enquirer's computer, software or data being damaged by any virus, and release and discharge the City from all Loss which might arise in respect of your use of the websites.

Glossary

"City" means The Council of the City of Sydney

"Enquirer" is the person(s) or organisation(s) requesting or using the information.

"Loss" includes any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages).

"**Survey Infrastructure**" means any mark of the types described in Schedules 2, 3 and 4 of the Surveying & Spatial Information Regulation 2017

"**Permanent Survey Mark**" means any mark of the types described in Schedule 4 of the Surveying & Spatial Information Regulation 2017

References

Surveying & Spatial Information Act 2002
http://www.legislation.nsw.gov.au/#/view/act/2002/83

Surveying & Spatial Information Regulation 2017
https://www.legislation.nsw.gov.au/#/view/regulation/2017/486

NSW Land & Registry Services website
http://www.nswlrs.com.au/

NSW Spatial Services website
http://spatialservices.finance.nsw.gov.au/

Surveyor General's Directions No.11 "Preservation of Survey Infrastructure"
http://spatialservices.finance.nsw.gov.au/__data/assets/pdf_file/0005/217094/SG_Direction_11.pdf

City of Sydney Revenue Policy – Fees & Charges
http://www.cityofsydney.nsw.gov.au/__data/assets/pdf_file/0015/301515/Fees-and-charges.pdf

Sample Identification Images



1) SSM52691 – Newtown


2) SSM49303 – Alexandria


3) PM150397 – Sydney


4) PM54382 – Alexandria


5) Cover Box - Darlinghurst

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Water Assets – Stormwater Structures, Conduits, Gross Pollutant Traps, Raingardens and Bioswales

Attention: You must read and understand the information below prior to commencement of design or construction works on affected sites

Important

Due to the nature and the age of stormwater assets and records, the accuracy and/or completeness of the City's information cannot be guaranteed. The City does not make any representation or give any guarantee, warranty or undertaking as to the accuracy, currency, completeness, effectiveness or reliability of the information.

You should still undertake a thorough site examination for visible structures through field survey including the use of appropriately qualified personnel and equipment.

This information has been generated by an automated system based on the information specified by the Enquirer. It is the Enquirer's responsibility to ensure that the work site has been properly identified and is accurately reflected in the information provided by the City. If the information does not match the work site, resubmit your enquiry for the correct site.

To the extent of any inconsistency, the information contained in this document will prevail over any other information provided to you by the City and Dial Before You Dig.

Asset Ownership

Stormwater assets within the City's local government area are owned by a number of organisations including Sydney Water Corporation, Roads and Maritime Services and other public or private entities. The City provides available information on stormwater assets irrespective of ownership. The City does not explicitly or implicitly claim to own all stormwater assets indicated on the plans.

Combined Storm/Sewer systems

There are a number of legacy combined stormwater/sewer systems within the City's local government area. These assets are owned by Sydney Water Corporation and are not depicted on City plans. Information regarding combined Storm/Sewers should be obtained from Sydney Water Corporation.

Data limitations

Diagrammatic information regarding the existence of stormwater assets is provided in accordance with the conditions and limitations stated in the City's documentation. It is the responsibility of the Enquirer to undertake appropriate site investigations to confirm details such as asset existence, ownership, location, type, dimensions, and levels.

The City has not undertaken survey to determine the position of its assets in relation to property boundaries. It is the responsibility of the Enquirer to ascertain the position of stormwater assets in relation to property boundaries.

Stormwater Quality Assets

Stormwater quality devices such as Gross Pollutant Traps, Raingardens and Bioswales can be impacted by construction at significant distances from these assets through actions such as insufficient erosion and sediment control. It is the responsibility of the Enquirer to ensure that construction activity does not impact stormwater quality assets.

Duty of Care

When working in the vicinity of stormwater assets, you have a "duty of care" that must be observed.

Works or proposed works should be planned to allow for minimal impact and appropriate protection of stormwater assets.

Locating Stormwater Assets

It is the Enquirer's responsibility to:

- Request plans of stormwater assets for a particular location at a reasonable time before work begins. If you have any doubts as to the exact location of stormwater assets, we strongly recommend that you engage the service of a suitably qualified locator; and
- Visually locate stormwater assets. For buried assets this should be done by hand digging or using non-destructive methods such as water jetting (pot holing) where construction activities may damage or interfere with stormwater assets.

Damage of Assets

Damage to stormwater assets must be reported immediately to the owner of the stormwater asset. For City owned stormwater assets, please contact 02 9265 9333 or council@cityofsydney.nsw.gov.au anytime, any day.

Enquirers and other parties undertaking works will be held responsible for all damage that occurs or impacts stormwater assets as a result of the works. This includes interfering with stormwater assets and conducting unauthorised modification works.

The City reserves all rights to recover compensation for any Loss (including consequential losses).

Relevant Approvals

Relevant approval must be obtained prior to commencement of works on or near stormwater assets. The Enquirer is responsible to ensure that all requisite approvals have been obtained prior to works and that all works are undertaken in accordance with the requirements of any approval.

User Risk

The Enquirer acknowledges that they use the information at their own risk. In consideration of the information provided by the City to the fullest extent permitted by law:

- All conditions and guarantees concerning the information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded. To the extent that those statutory guarantees cannot be excluded, the liability of the City to the Enquirer is limited to the supplying of the information again;
- In no event will the City be liable for, and the Enquirer releases the City from any Loss arising from or in connection with the information, including the use of or inability to use the information and delay in the provision of the information;
- The Enquirer will indemnify the City against any Loss arising from or in connection with the information and the works; and
- The Enquirer assumes all risks associated with the use of the Dial Before You Dig and City websites, including risk to the Enquirer's computer, software or data being damaged by any virus, and release and discharge the City from all Loss which might arise in respect of your use of the websites.

Glossary

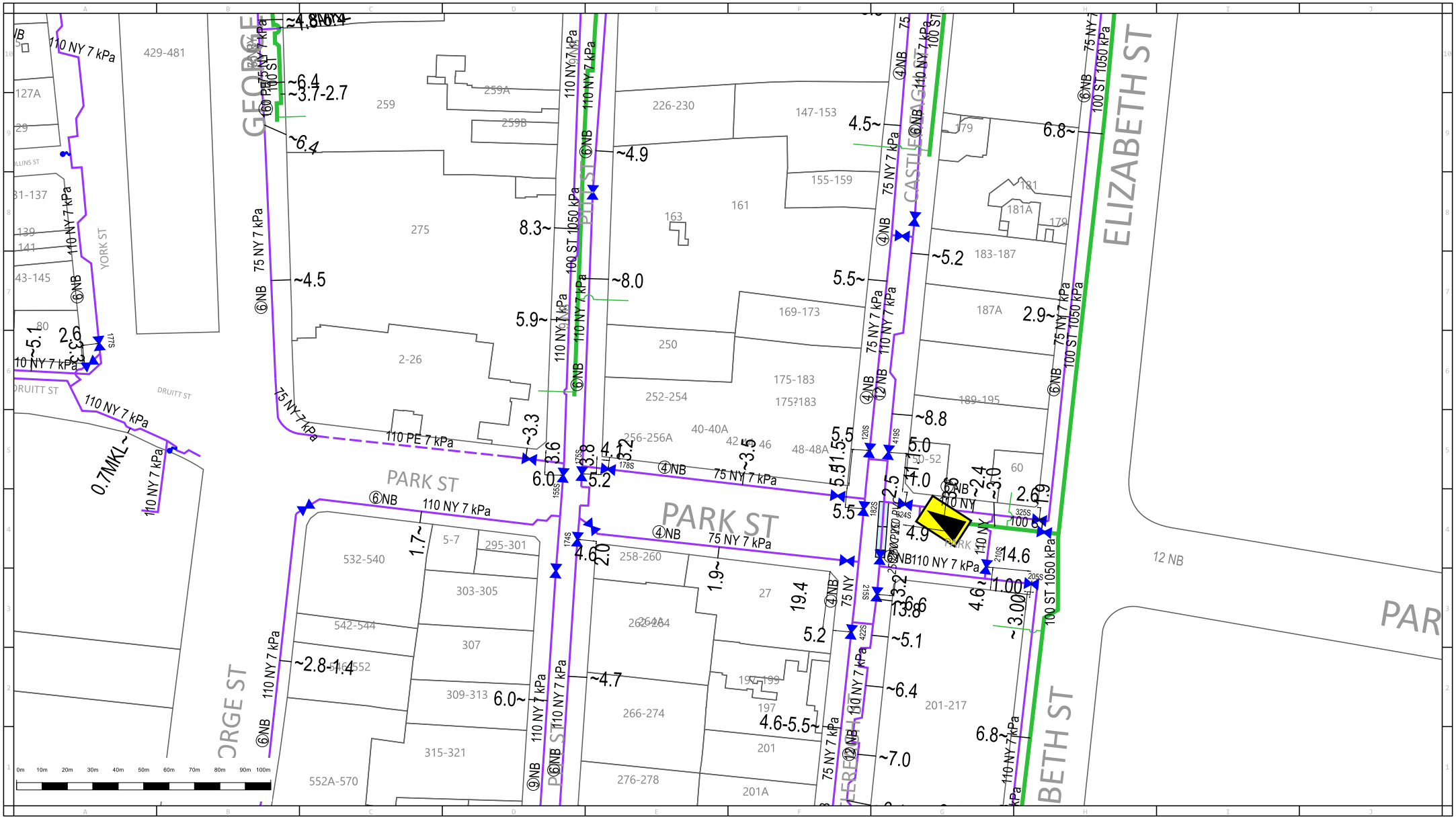
"**City**" means The Council of the City of Sydney.

"**Enquirer**" is the person(s) or organisation(s) requesting or using the information.

"Loss" includes any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages).

DBYD Authority: Jemena Gas Networks (NSW)

DBYD Location: 254 Pitt Street Sydney NSW, 2000



Jemena
ABN 87 003 004 322

Main	In Service	Proposed
Unknown Pressure		
Distribution - 2 kPa		
Distribution - 7 kPa		
Distribution - 30 kPa		
Distribution - 100 kPa		
Distribution - 210 kPa		

Main	In Service	Proposed
Distribution - 300 kPa		
Distribution - 400 kPa		
Proposed Isolate (coloured according to kPa)		
Conduit or Casing (*Size & Material*)	*100 PVC*	

High Pressure Main & Pipeline	In Service	Proposed
Critical Main Treat as High Pressure Main		
Secondary - 1050 kPa		
Secondary Service		
Primary - 3500 kPa		
JGN Trunk - 7000 kPa		
Transmission		

Fittings, Valves & Regulators

Siphon
Valve
Distance in metres of Main from Boundary Line ~1.5
MBK = Metres Back of Kerb
MFL = Metres from Fence Line
Regulator Set
Regulator Station
Automatic Line Break Valve

N W E S

Scale: 1:2000

Issue Date: 21/11/2019
DBYD Seq No: 92397597
DBYD Job No: 18616279

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagramatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.

Network Protection

High Pressure - Assets Affected

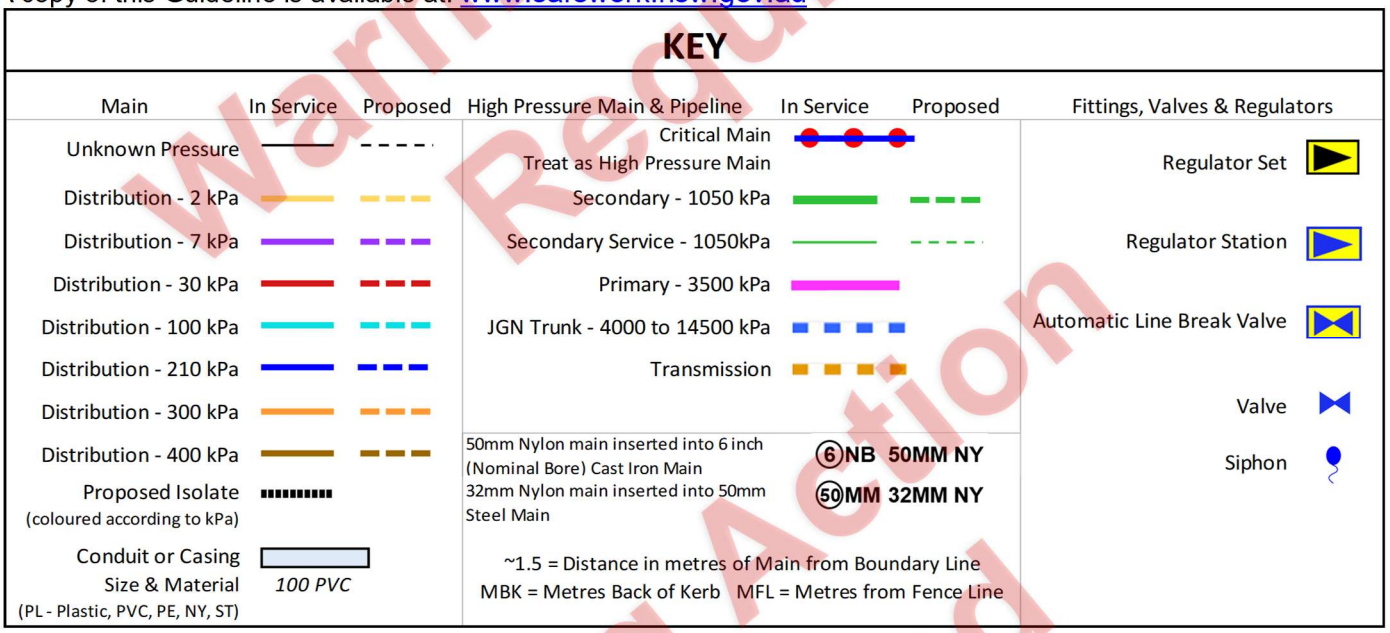
In reply to your enquiry, there are **High Pressure Gas Mains** in the vicinity of your intended work, as generally illustrated on the attached map. There may also be other mains or services at the location, as discussed in the warning below. For an explanation of the map, please see the key below.
The following excavations guidelines apply:

Excavation Guidelines:

Prior to **any** excavations in this area, you ***must*** contact the High Pressure Response Coordinator on **1300 665 380**. ***(Appointments will be coordinated with availability of a Jemena Representative)*** to arrange a survey. For all works in the vicinity of High Pressure Gas Mains you must arrange for a Jemena Representative to attend and supervise all excavations. Charges apply for attendance of any works outside the hours of 7am to 4pm, Monday to Friday ("**Standard Business Hours**") and for any attendance during Standard Business Hours that is longer than 2 hours.

In accordance with clause 34(5) of the Gas Supply (Safety and Network Management) Regulation 2013 (NSW), you should be informed that all excavation, (including pot-holing by hand to confirm the location of pipes) should be performed in accordance with "***Work Near Underground Assets Guideline"*** *published in 2007 by the Work Cover Authority.*

A copy of this Guideline is available at: www.safework.nsw.gov.au



Warning: The enclosed plans show the position of Jemena Gas Networks (NSW) Ltd's underground gas mains and installations in public gazetted roads only. **Individual customers' services and services belonging to other third parties are not included** on these plans. These plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "**Jemena**") and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of underground mains and installations relative to fences, buildings etc., as they existed at the time the mains etc were installed. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared. Jemena makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error, omission, lack of detail, transmission failure or corruption in the information provided. Jemena does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of Jemena, its employees, agents, officers or contractors). The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains and equipment. Jemena advises that you may be required to carry out potholing by hand if required by a Jemena Representative to confirm the location of Jemena's main and installations. This must also be performed by you under the supervision of a Jemena Representative and be carried out in accordance with the Working Near Underground Assets Guideline published in 2007 by Work Cover Authority

In case of Emergency Phone 131 909 (24 hours)

Admin
1300 880 906

Jemena Asset Management Pty Ltd ABN 53 086 013 461
for and on behalf of Jemena Gas Networks (NSW) Ltd ABN 87 003 004 322

Warning Action Required
Warning Action Required



Working near nbn™ cables

nbn has partnered with Dial Before You Dig to give you a single point of contact to get information about **nbn** underground services owned by **nbn** and other utility/service provider in your area including communications, electricity, gas and other services. Contact with underground power cables and gas services can result in serious injury to the worker, and damage and costly repairs. You must familiarise yourself with all of the Referral Conditions (meaning the referral conditions referred to in the DBYD Notice provided by **nbn**).

Practice safe work habits

Once the DBYD plans are reviewed, the Five P's of Excavation should be adopted in conjunction with your safe work practices (which must be compliant with the relevant state Electrical Safety Act and Safe Work Australia "Excavation Work Code of Practice", as a minimum) to ensure the risk of any contact with underground **nbn** assets are minimised.

Plan: Plan your job ensuring the plans received are current and apply to the work to be performed. Also check for any visual cues that may indicate the presence of services not covered in the DBYD plans.

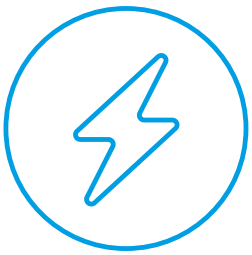
Prepare: Prepare for your job by engaging a DBYD qualified Plant Locator to help interpret plans and identify on-site assets. Contact **nbn** should you require further assistance.

Pothole: Non-destructive potholing (i.e. hand digging or hydro excavation) should be used to positively locate **nbn** underground assets with minimal risk of contact and service damage.

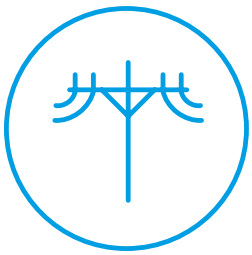
Protect: Protecting and supporting the exposed **nbn** underground asset is the responsibility of the worker. Exclusion zones for **nbn** assets are clearly stated in the plan and appropriate controls must be implemented to ensure that encroachment into the exclusion zone by machinery or activities with the potential to damage the asset is prevented.

Proceed: Proceed only when the appropriate planning, preparation, potholing and protective measures are in place.

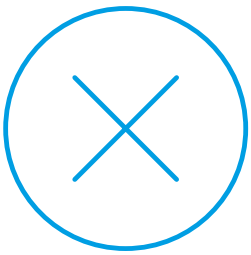
Working near **nbn**™ cables



Identify all electrical hazards, assess the risks and establish control measures.



When using excavators and other machinery, also check the location of overhead power lines.



Workers and equipment must maintain safety exclusion zones around power lines.

Once all work is completed, the excavation should be re-instated with the same type of excavated material unless specified by **nbn**. Please note:

- Construction Partners of **nbn** may require additional controls to be in place when performing excavation activities.
- The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

Contact

In the event of the **nbn**™ network facility damage please call 1800 626 329

Disclaimer

This brochure is a guide only. It does not address all the matters you need to consider when working near our cables. You must familiarise yourself with other material provided (including the Referral Conditions) and make your own inquiries as appropriate.

nbn will not be liable or responsible for any loss, damage or costs incurred as a result of reliance on this brochure.

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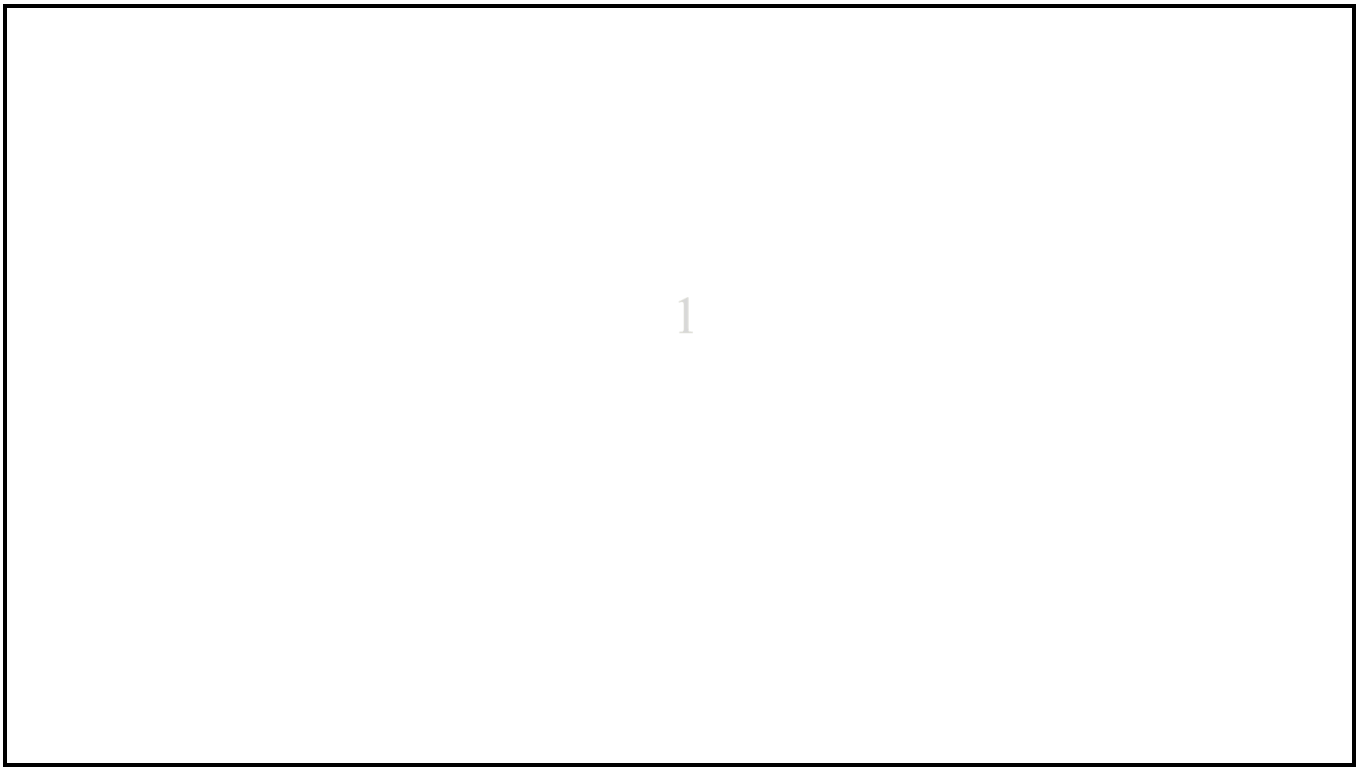
DIAL BEFORE YOU DIG
www.1100.com.au

Indicative Plans

Issue Date:	21/11/2019
Location:	254 Pitt Street , Sydney , NSW , 2000



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LEGEND

34	Parcel and the location
5	Pit with size "5"
2E	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
2 PO – T- 25.0m P40 – 20.0m 5 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
2 10.0m 5 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
5 9	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m

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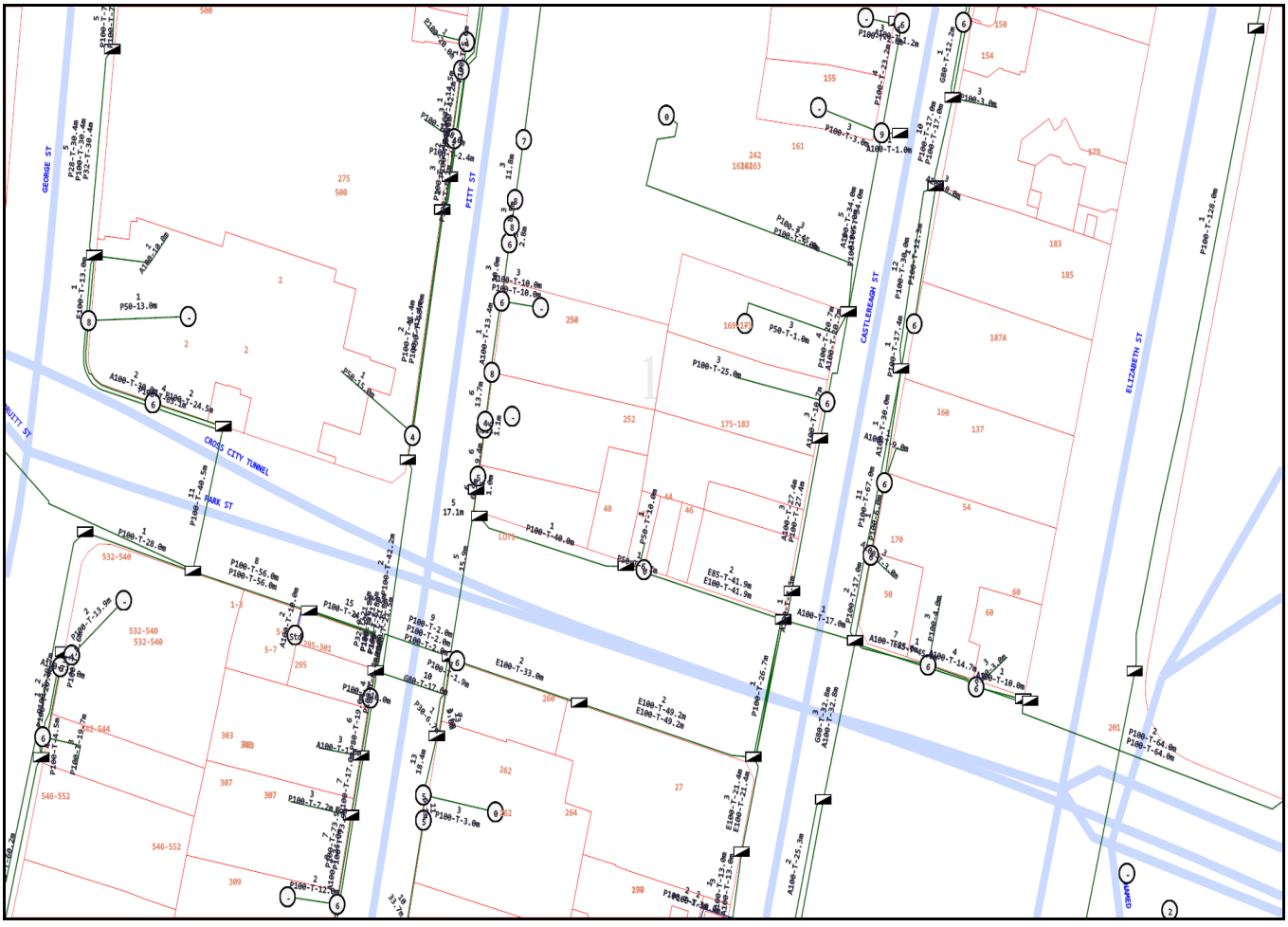
Email info@nbn.com.au Web nbn.com.au



Emergency Contacts

You must immediately report any damage to **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.

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To:	Ms Yiqing Kong
Phone:	0466830473
Fax:	Not Supplied
Email:	alison.kong@lciconsultants.com.au

Dial before you dig Job #:	18616279	DIAL BEFORE YOU DIG www.1100.com.au
Sequence #	92397600	
Issue Date:	21/11/2019	
Location:	254 Pitt Street , Sydney , NSW , 2000	Some impact. No onsite action required.

Information

The area of interest requested by you contains one or more assets.

nbn Assets	Search Results
Communications	Asset identified
Electricity	No assets

In this notice **NBN Facilities** means *underground fibre optic, telecommunications and/or power facilities, including but not limited to cables, owned and controlled by* ***nbn***

Location of Underground Power Facilities

We thank you for your enquiry. In relation to your enquiry at the above address:

- **nbn's** records indicate that there **ARE nbn** Facilities in the vicinity of the location identified above ("Location").
- **nbn** indicative plan/s are attached with this notice ("Indicative Plans").
- The Indicative Plan/s show general depth and alignment information only and are not an exact, scale or accurate depiction of the location, depth and alignment of **nbn** Facilities shown on the Plan/s.
- In particular, the fact that the Indicative Plans show that a facility is installed in a straight line, or at uniform depth along its length cannot be relied upon as evidence that the facility is, in fact, installed in a straight line or at uniform depth.
- You should read the Indicative Plans in conjunction with this notice and in particular, the notes below.
- You should note that, at the present time, the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables. As such, consistent with the notes below, particular care must be taken by you to make your own enquiries and investigations to precisely locate any power cables and manage the risk arising from such cables accordingly.
- The information contained in the Indicative Plan/s is valid for 28 days from the date of issue set out

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above.You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators at your cost to locate **nbn** Facilities during any activities you carry out on site).

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service. If you are planning to excavate and require further information, please contact **nbn** on 1800 626 329. For any enquiries related to moving assets or Planning and Design activities, please visit the **nbn** Commercial Works website to complete the online application form.

Notes:

1. You are now aware that there are **nbn** Facilities in the vicinity of the above property that could be damaged as a result activities carried out (or proposed to be carried out) by you in the vicinity of the Location.
2. You should have regard to section 474.6 and 474.7 of the *Criminal Code Act 1995* (CoA) which deals with the consequences of interfering or tampering with a telecommunications facility. Only persons authorised by **nbn** can interact with **nbn's** network facilities.
3. Any information provided is valid only for **28 days** from the date of issue set out above.

Referral Conditions

The following are conditions on which **nbn** provides you with the Indicative Plans. By accepting the plans,you are agreeing to these conditions. These conditions are in addition, and not in replacement of, any duties and obligations you have under applicable law.

1. **nbn** does not accept any responsibility for any inaccuracies of its plans including the Indicative Plans. You are expected to make your own inquiries and perform your own investigations (including engaging appropriately qualified plant locators at your expense to locate **nbn** Facilities during any activities you carry out on site).
2. You acknowledge that **nbn** has specifically notified you above that the Indicative Plans are likely to be more accurate in showing location of fibre optics and telecommunications cables than power cables. There may be a variation between the line depicted on the Indicative Plans and the location of any power cables.
3. You should not assume that **nbn** Facilities follow straight lines or are installed at uniformed depths along their lengths, even if they are indicated on plans provided to you. Careful onsite investigations are essential to locate the exact position of cables.
4. In carrying out any works in the vicinity of **nbn** Facilities, you must maintain the following minimum clearances:
   - 300mm when laying assets inline, horizontally or vertically.
   - 500mm when operating vibrating equipment, for example: jackhammers or vibrating plates.
   - 1000mm when operating mechanical excavators.
   - Adherence to clearances as directed by other asset owner's instructions and take into account any uncertainty for power cables.
5. You are aware that there are inherent risks and dangers associated with carrying out work in the vicinity of underground facilities (such as **nbn** fibre optic,copper and coaxial cables,and power cable feed to **nbn** assets).Damage to underground electric cables may result in:
   - Injury from electric shock or severe burns, with the possibility of death.
   - Interruption of the electricity supply to wide areas of the city.
   - Damage to your excavating plant.
   - Responsibility for the cost of repairs.
6. You must take all reasonable precautions to avoid damaging **nbn** Facilities. These precautions may include but not limited to the following:
   - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to

minimise the likelihood of damage to the cable, for example: the blades of hand equipment should be aligned parallel to the line of the cable rather than digging across the cable.

- If any undisclosed underground cables are located, notify **nbn** immediately.
- All personnel must be properly briefed, particularly those associated with the use of earth-moving equipment, trenching, boring and pneumatic equipment.
- The safety of the public and other workers must be ensured.
- All excavations must be undertaken in accordance with all relevant legislation and regulations.

7. You will be responsible for all damage to **nbn** Facilities that are connected whether directly, or indirectly with work you carry out (or work that is carried out for you or on your behalf) at the Location. This will include, without limitation, all losses expenses incurred by **nbn** as a result of any such damage.
8. You must immediately report any damage to **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.
9. Except to the extent that liability may not be capable of lawful exclusion, **nbn** and its servants and agents and the related bodies corporate of **nbn** and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any plans(including Indicative Plans) attached hereto. Except as expressly provided to the contrary in this information sheet or the attached plans(including Indicative Plans), all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

All works undertaken shall be in accordance with all relevant legislations, acts and regulations applicable to the particular state or territory of the Location. The following table lists all relevant documents that shall be considered and adhered to.

State/Territory	Documents
National	Work Health and Safety Act 2011
	Work Health and Safety Regulations 2011
	Safe Work Australia - Working in the Vicinity of Overhead and Underground Electric Lines (Draft)
	Occupational Health and Safety Act 1991
NSW	Electricity Supply Act 1995
	Work Cover NSW - Work Near Underground Assets Guide
	Work Cover NSW - Excavation Work: Code of Practice
VIC	Electricity Safety Act 1998
	Electricity Safety (Network Asset) Regulations 1999
QLD	Electrical Safety Act 2002
	Code of Practice for Working Near Exposed Live Parts
SA	Electricity Act 1996
TAS	Tasmanian Electricity Supply Industry Act 1995
WA	Electricity Act 1945
	Electricity Regulations 1947
NT	Electricity Reform Act 2005
	Electricity Reform (Safety and Technical) Regulations 2005
ACT	Electricity Act 1971

Thank You,

Network Operations Centre - Assurance

Date: 21/11/2019

This document is provided for information purposes only. This document is subject to the information classification set out on this page. If no information classification has been included, this document must be treated as UNCLASSIFIED, SENSITIVE and must not be disclosed other than with the consent of nbn co. The recipient (including third parties) must make and rely on their own inquiries as to the currency, accuracy and completeness of the information contained herein and must not use this document other than with the consent of nbn co.

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Plant Location Details

21/11/2019

Ms Yiqing Kong
LCI
Level 4 73 Walker St
North Sydney NSW 2060
Phone: 0466830473
Fax: Not Supplied

Nextgen Networks Pty Ltd
Level 6, 333 Collins Street
Melbourne VIC 3000
T 1800 032 532
E Damage.Relocations@vocus.com.au

Dear Ms Yiqing Kong

The following is a response to your Dial Before You Dig enquiry

Assets Affected: Nextgen Assets

Sequence No: 92397591
Location: 254 Pitt Street, Sydney NSW 2000

IMPORTANT:

- Please read and understand all the information and disclaimers provided below
- Sketches and Plans provided by Nextgen Networks are circuit diagrams only and indicate the presence of telecommunications plant in the general vicinity of the geographical area shown; exact ground cover and alignments cannot be given with any certainty and cover may alter over time. Telecommunications plant seldom follow straight lines and careful on site investigation is essential to uncover and reveal its exact position
- The accuracy and/or completeness of the information in the plans can not be guaranteed often due to changes in the surrounding land subsequent to Nextgen's deployment and, accordingly the plans are intended to be indicative only

"DUTY OF CARE"
When working in the vicinity of telecommunications plant you have a legal "Duty of Care" that must be observed. The following points must be considered:

1. It is the responsibility of the owner and any consultant engaged by the owner, including an architect, consulting engineer, developer, and head contractor to design for minimal impact and protection of Nextgen Networks plant. Nextgen Networks will provide free plans and sketches showing the presence of its network to assist at this design stage.
2. It is the owner's (or constructor's) responsibility to:
   a) Request plans of Nextgen Networks plant for a particular location at a reasonable time before construction begins
   b) Visually locate Nextgen Networks plant by vacuum excavation (pot-holing) where construction activities may damage or interfere with Nextgen Networks plant (see "Essential Precautions and Approach Distances" section for more information)
   c) Contact Nextgen Networks Network (see below for details) if Nextgen Networks plant is wholly or partly located near planned construction activities

DAMAGE
ANY DAMAGE TO Nextgen Networks NETWORK MUST BE REPORTED TO 1800 032 532 IMMEDIATELY

- The owner is responsible for all plant damage when works commence prior to obtaining Nextgen Networks plans, or failure to follow agreed instructions
- Nextgen Networks reserves all rights to recover compensation for lose or damage to its cable network or other property including consequential losses

CONCERNING NEXTGEN NETWORK PLANS

- Phone 1100. Dial Before You Dig for free plans of Nextgen Networks plant locations. Please give at least 2 business days notice
- Nextgen Networks plans and information provided are valid for 30 days from the date of issue
- Nextgen Networks retains copyright in all plans and details provided in conjunction with your request. These plans and or details should be disposed of by shredding or any other secure disposal method after use
- Nextgen Networks plans or other details are provided for the use of the applicant, its servants, or agents, and shall not be used for any unauthorised purpose
- Please contact the Network Help Desk (see below for details) immediately should you locate Nextgen Networks assets not indicated on these plans
- Nextgen Networks, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Nextgen Networks against any claim or demand for any such loss or damage
- Please ensure Nextgen Networks plans and information provided remains on-site at all times throughout your construction phase

ESSENTIAL PRECAUTION AND APPROACH DISTANCE

NOTE: If the following clearances cannot be maintained, please contact the Nextgen Network Help Desk (see below for details) for advice on how best to resolve this situation

1. On receipt of plans and sketches and before commencing excavation work or similar activities near Nextgen Networks plant, carefully locate this plant first to avoid damage. Undertake prior exposure (vacuum excavation) such as potholing when intending to excavate or work closer to Nextgen Networks plant than the following approach distances:

- Where Nextgen Networks plant is in an area where road and footpaths are well defined by kerbs or other features a minimum clear distance of 600mm must be maintained from where it could be reasonably presumed that plant would reside
- In non established or unformed reserves and terrain, this approach distance must be at least 1.5 metres
- In country/rural areas which may have wider variations in reasonably presumed plant presence, the following minimum approach distances apply:
  d) Parallel to major plant: 10 metres (for optic fibre cable)
  e) Parallel to other plant: 5 metres

  Note: Even pot-holing needs to be undertaken with extreme care, common sense and employing techniques least likely to damage cables. For example - vacuum excavation.

- If construction work is parallel to Nextgen Networks plant, then careful pot-holing at least every 5m is required to establish the location of all plant, hence continuing nominal locations before work can commence

2. Maintain the following minimum clearance between construction activity and actual location of Nextgen Networks Plant.

Jackhammers/Pneumatic Breakers	*Not within 1.0m of actual locations*
Vibrating Plate or Wackers Packer Compactors	*Not within 0.5m of Nextgen Networks ducts 300mm compact clearance cover before compactor can be used across Nextgen Networks ducts, and 600mm clearance across Nextgen Networks cables in the solid*
Boring Equipment (in-line, horizontal and vertical)	*Not within 2.0m of actual location Constructor to check depth via vacuum excavation (pot-hole)*
Heavy Vehicle Traffic (over 3 tonnes)	*Not to be driven across Nextgen Networks ducts with less than 600mm cover. Not to be driven across Nextgen Networks fibre with less than 1.2m cover Constructor to vacuum excavate(pot-hole) and expose plant*
Mechanical Excavators, Boring and Tree Removal	*Not within 1.0m of actual location Constructor to vacuum excavate (pot-hole) and expose plant*

- All Nextgen Networks pits and manholes should be a minimum of 1.2m in from the back of kerb after the completion of your work
- All Nextgen Networks conduit should have the following minimum depth of cover after the completion of your work:

  Footway 450mm
  Roadway 450mm at drain invert and 600mm below the pavement subgrade level invert

- All Nextgen Networks fibre in the solid should have the following minimum depth of cover after the completion of your work:

  Footway 600mm
  Roadway 1200mm at drain invert and 1200mm below the pavement subgrade level invert

- For clearance distances relating to Nextgen Networks above ground infrastructure please contact the Network Help Desk (see below for details)

FURTHER ASSISTANCE

Over-the-phone assistance can be obtained by calling the Network Help Desk below.
Nextgen require 5 clear business days notice to conduct an on-site location. The initial on site location visit will not normally incur a charge, but at the discretion of Nextgen subsequent site visits may incur a charge to be applied at an hourly rate.
Where an on-site location is provided, the owner is responsible for all vacuum excavation work (pot-holing) to visually locate and expose Nextgen Networks plant.
If plant location plans or visual location of Nextgen Networks plant by vacuum excavation reveals that the location of Nextgen Networks plan is situated wholly or partly where the owner plans to work, then **Nextgen Networks** must be contacted through the **Network Help Desk** to discuss possible engineering solutions.
The contact number for the **Network Help Desk** is 1800 032 532.

NOTE:
If Nextgen Networks relocation or protection works are part of the agreed solution, then payment to Nextgen Networks for the cost of this work shall be the responsibility of the principal developer. The principal developer will be required to provide Nextgen Networks with the details of their proposed work showing how Nextgen Networks plant is to be accommodated and these details must be approved by the Nextgen National Operations Manager prior to the commencement of site works.

RURAL LANDOWNER - IMPORTANT INFORMATION

Where Nextgen Networks owned cable crosses agricultural land Nextgen Networks will provide a one off free-on-site electronic cable location. Please note that the exact location of cables can only be verified by visual proving by pot holing, which is not covered by this service. The Network Integrity HelpDesk Officer will provide assistance in determining whether a free-on-site location is required. Please ring the Nextgen Network Help Desk as listed above.

PRIVACY NOTE

Your information has been provided to Nextgen Networks by DBYD to enable Nextgen Networks to respond to your DBYD request. Nextgen Networks keeps your information in accordance with its privacy statement entitled 'Protecting Your Privacy' which can be obtained from Nextgen Networks either by calling 1800 032 532 or visiting our website www.nextgengroup.com.au

Warning: Nextgen Networks plans show only the presence of cables and plant. They only show their position relative to road boundaries, property fences etc, at the time of installation and Nextgen Networks does not warrant or hold out that such plans are accurate thereafter due to changes that may occur over time.
DO NOT ASSUME DEPTH OR ALIGNMENT of cables or plant as these vary significantly.
The customer has A DUTY OF CARE when excavating near Nextgen Networks cables and plant. Before using machine excavators NEXTGEN PLANT MUST FIRST BE PHYSICALLY EXPOSED BY VACUUM EXCAVATION (potholing) to identify its location.
Nextgen Networks will seek compensation for damages caused to its property and losses caused to Nextgen Networks and its customers.

EXPERIENCED PLANT LOCATORS (for your area)

On-site assistance should be sought from an Experienced Plant Locater if the telecommunications plant cannot be located within 2.5 metres of the locations indicated on the drawings provided. On-site advice should be obtained from a suitably qualified contractor highly skilled in locating Nextgen Networks plant. If there is any doubt whatsoever about the actual location of the telecommunications plant, the best method for locating the telecommunications plant or the correct interpretation of the drawings provided. In the case where Nextgen Networks plant is outside a recognised road reserve Nextgen Networks recommends that the **Network Help Desk** is contacted for assistance prior to engaging an Experienced Plant Locater.

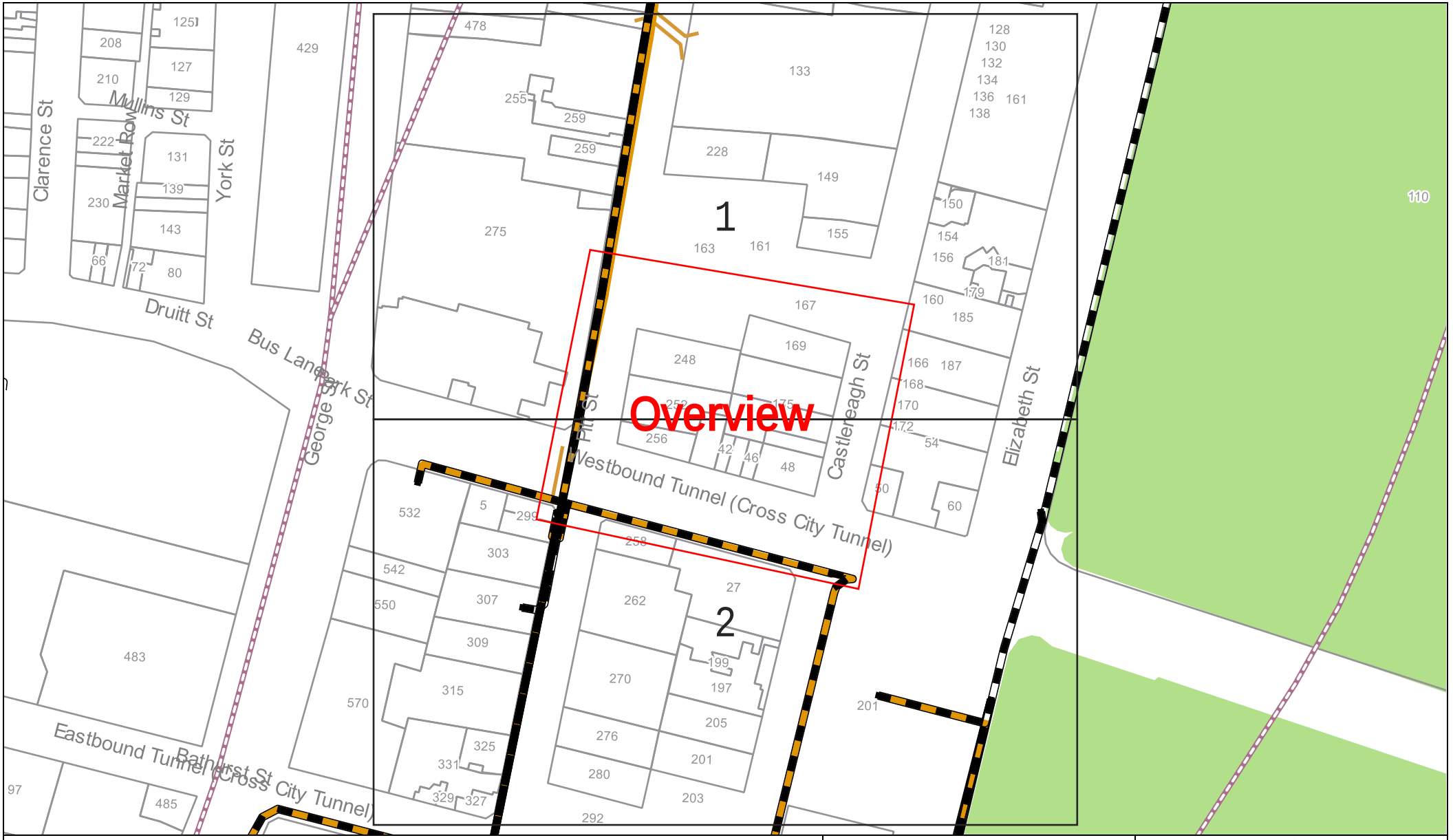
For the assistance of customers Nextgen Networks has established strict criteria to assess the skill of contractors that may be engaged by owners requiring Nextgen Networks plant locating services to perform any of the following activities if requested to do so by the owner:

- Review Nextgen Networks plans to assess the approximate location of Nextgen Networks plant
- Advise owners of the approximate location of Nextgen Networks plant according to the plans
- Advise the owners of the best method for locating Nextgen Networks plant
- Advise owners of the hazard of unqualified persons attempting to find the exact location of Nextgen Networks plant and working in the vicinity of Nextgen Networks plant without first locating its exact position
- Perform trial hole explorations by vacuum excavation (pot-holing) to expose Nextgen Networks plant with a high degree of skill, competence and efficiency and utilising all necessary safety equipment

Nextgen Networks does not accept any liability or responsibility for the performance of or advice given by any Plant Locater engaged by you but we will, if requested, recommend suitably qualified plant locators.

GENERAL DISCLAIMER

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Nextgen or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.



Sequence Number: 92397591

Date: 21/11/2019

DISCLAIMER: THIS DRAWING SHOULD NOT BE SCALED TO LOCATE CABLES. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE. IF YOU REQUIRE INFORMATION REGARDING LOCATING THE CABLE PLEASE CALL NEXTGEN. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR DIAL BEFORE YOU DIG USE. THIS PLAN CONTAINS COMMERCIALLY SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ONTO OTHER PARTIES WITHOUT WRITTEN CONSENT FROM NEXTGEN PTY LTD.

nextgen GROUP

LEGEND

Digsite

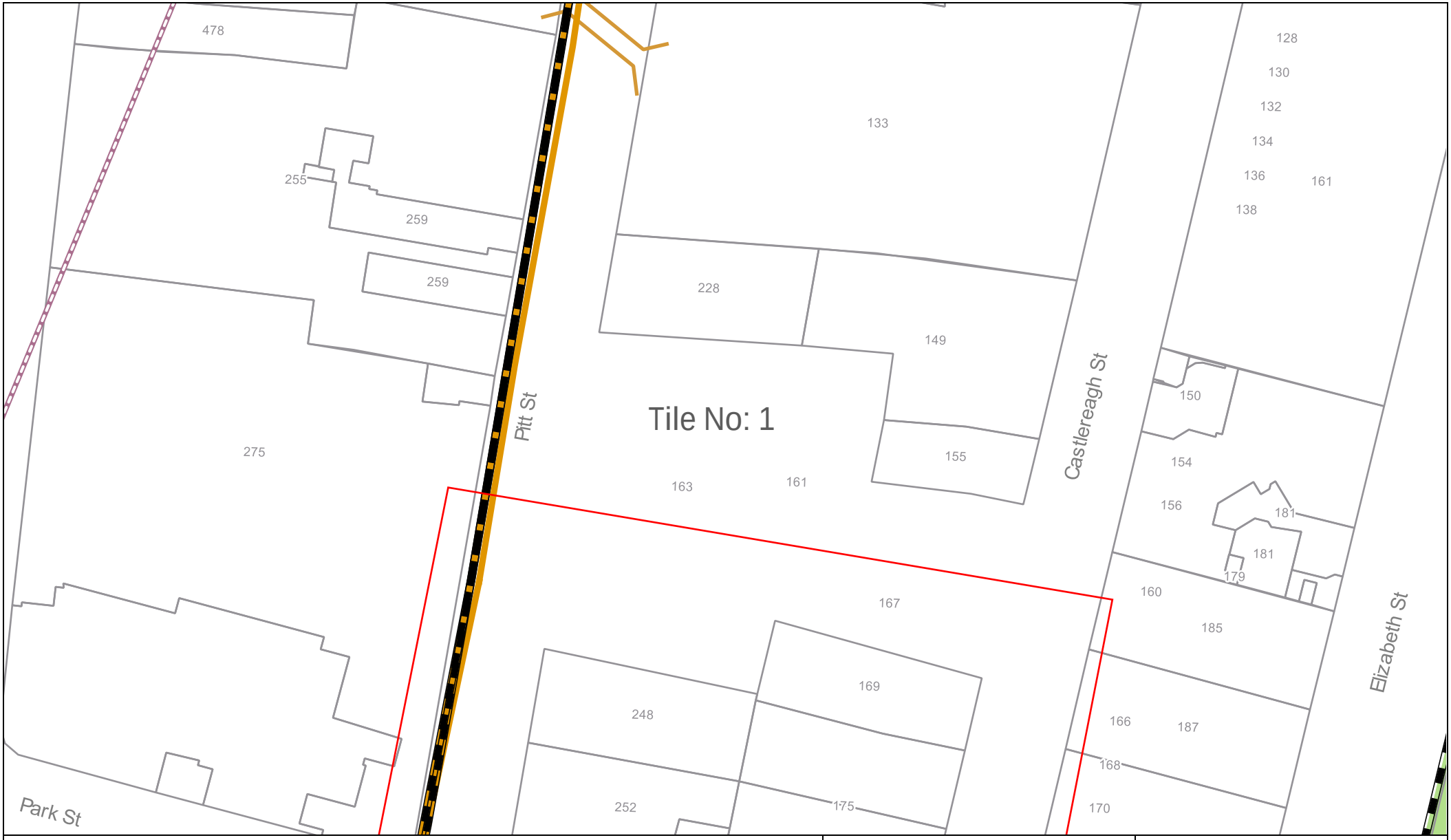
Area

Assets

Cable

3rd Party Duct

Marker Post



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	Area		Cable
			3rd Party Duct
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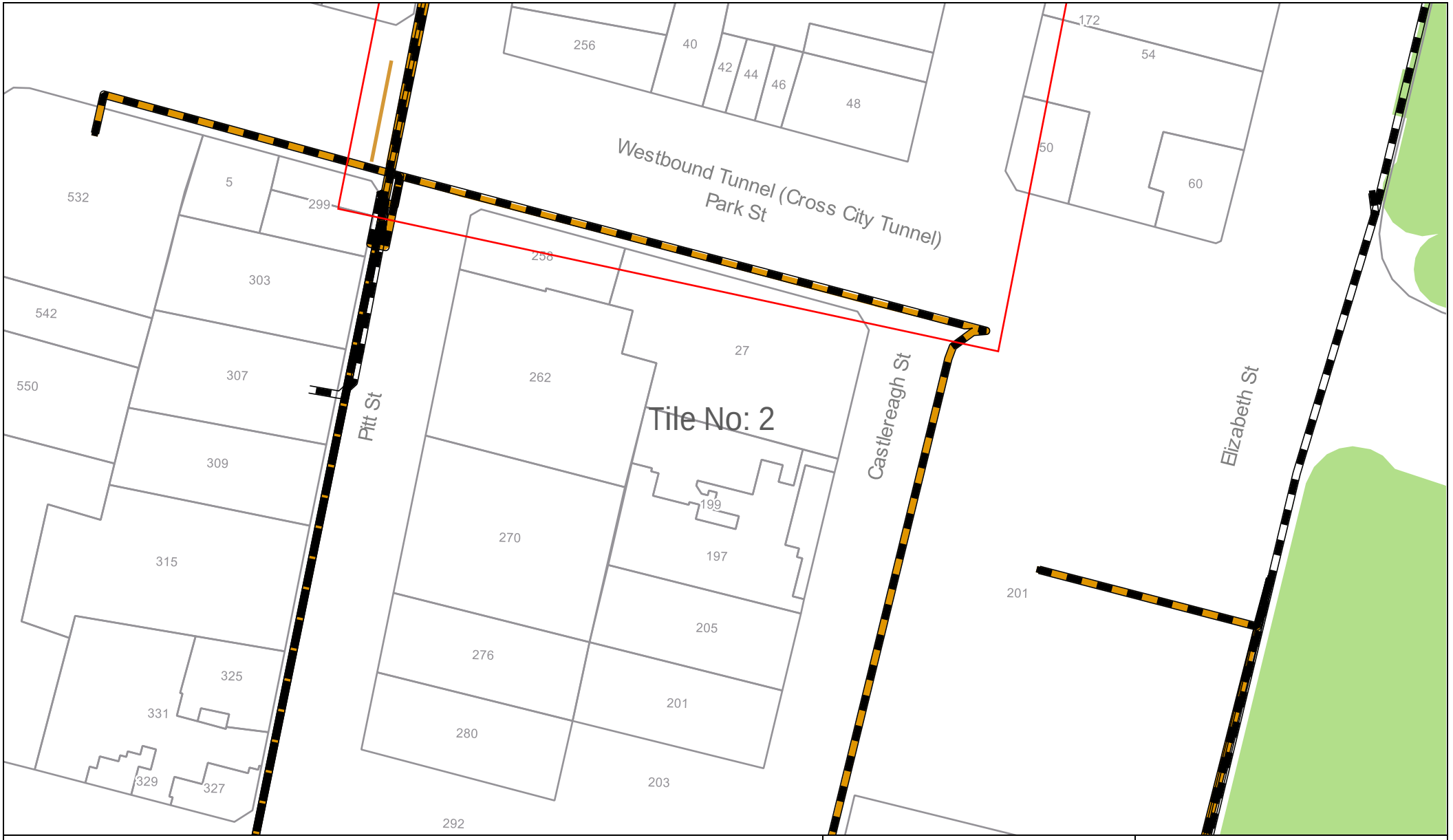

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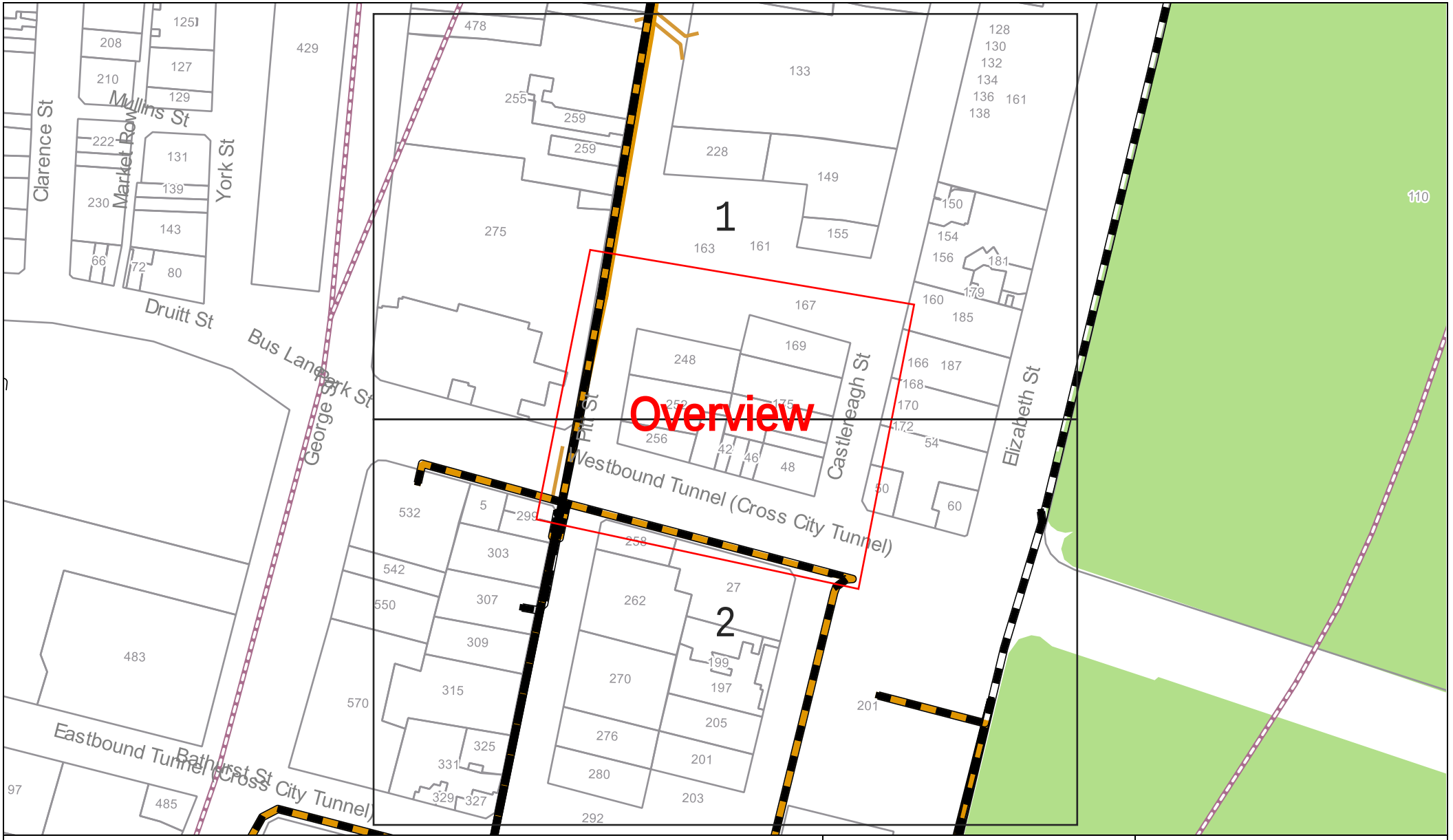

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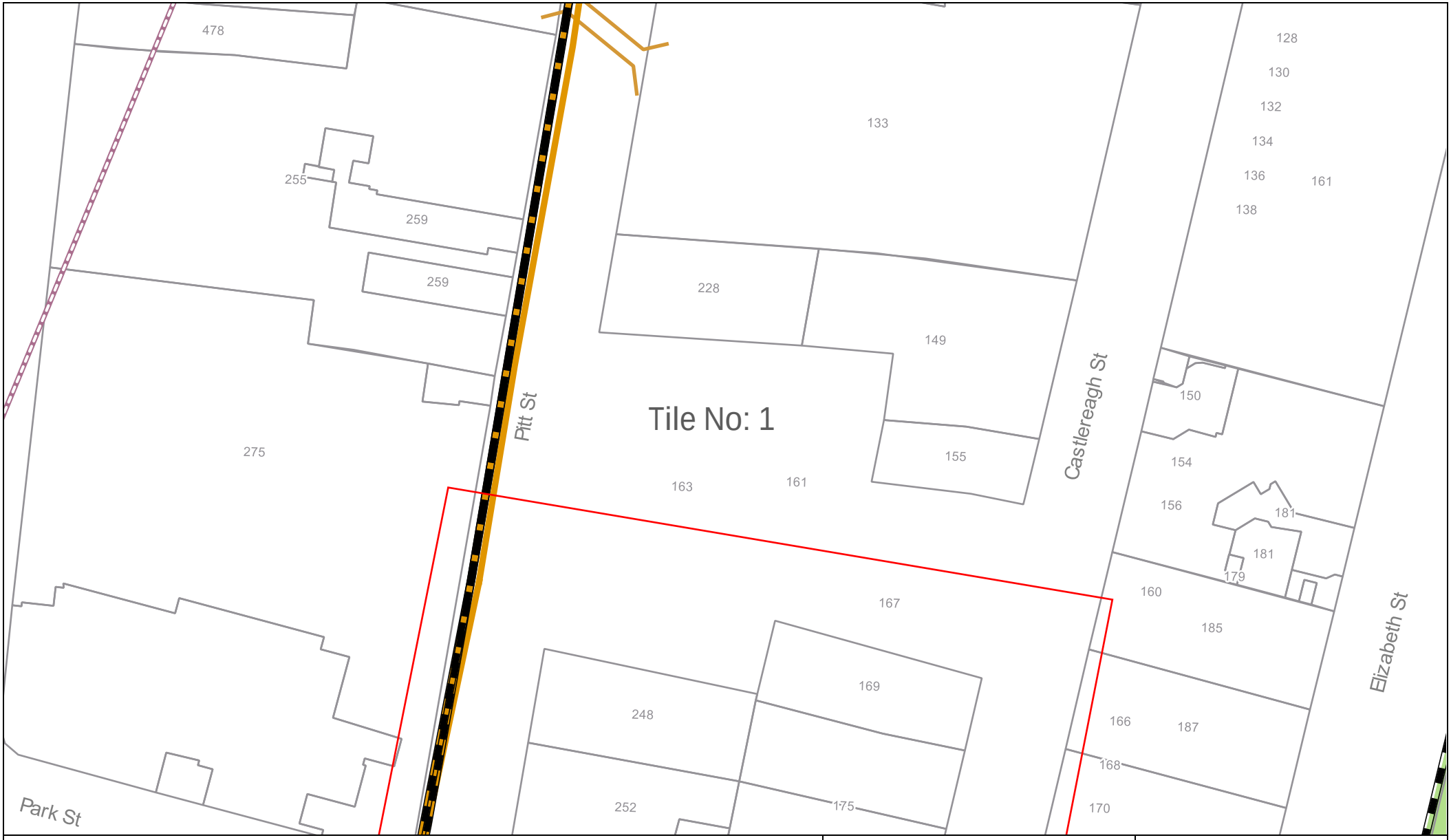

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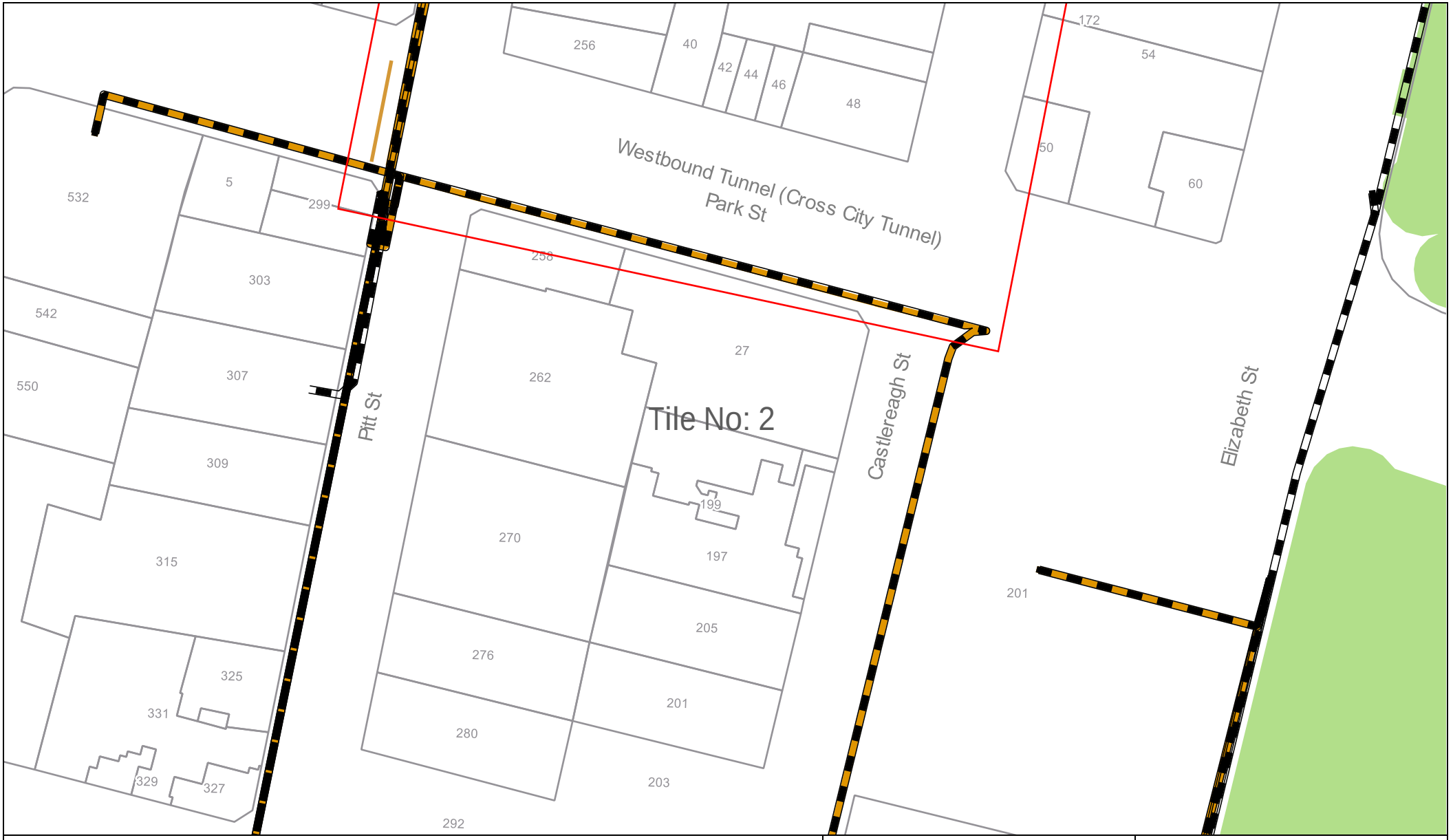
nextgen GROUP

LEGEND

Digsite		Assets	
	Area		Cable
			3rd Party Duct
			Marker Post



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nextgen GROUP

LEGEND

Digsite

Area

Assets

Cable

3rd Party Duct

Marker Post

OPTUS

DIAL BEFORE YOU DIG www.1100.com.au

Optus Contract Management Team
Unit 9, 677 Springvale Road
Mulgrave, Victoria, 3178

Date: 21/11/2019
To: Ms Yiqing Kong
Company:
Address: Level 4 73 Walker St
North Sydney, NSW 2060

ENQUIRY DETAILS
Location: 254 Pitt Street, Sydney, NSW 2000
Sequence No.: 92397596
DBYD Reference: 18616279

In relation to your enquiry concerning the above location, Optus advises as follows:

Optus records indicate that there ARE underground Optus FIBRE OPTIC TELECOMMUNICATIONS ASSETS in the vicinity of the above location as per the attached drawing(s).

This reply is valid for a period of 30 days from the date above.

IMPORTANT INFORMATION

Asset location drawings provided by Optus are reference diagrams and are provided as a guide only. The completeness of the information in these drawings cannot be guaranteed. Exact ground cover and alignments cannot be provided with any certainty as these may have altered over time. Depths of telecommunications assets vary considerably as do alignments. It is essential to identify the location of any Optus assets in the vicinity prior to engaging in any works.

All Optus assets in the vicinity of any planned works will need to be electronically located to ascertain their general location. Depending on the scope of planned works in the vicinity, the assets may also need to be physically located.

You MUST engage the services of one of the Optus Asset Accredited Locators to carry out asset location (refer to list of Accredited Locators attached to this DYBD response).

Unless otherwise agreed with Optus, where an on-site asset location is required, the requestor is responsible for all costs associated with the locating service including (where required) physically exposing the Optus asset.

DUTY OF CARE

When working in the vicinity of telecommunications assets you have a legal "Duty of Care" and non-interference that must be observed.

It is your responsibility as the requesting party (as a landowner or any other party involved in the planned works) to design for minimal impact to any existing Optus asset. Optus can assist at the design stage through consultation.

It is also your, as the requesting party (or your representative's), responsibility to:

a) Obtain location drawings (through the Dial Before You Dig process) of any existing Optus assets at a reasonable time before any planned works begin;

b) Have an Optus Accredited Asset Locator identify the general location of the Optus asset and physically locate the asset where planned works may encroach on its alignment; and

c) Contact Optus for further advice where requested to do so by this letter.

DAMAGE TO ANY OPTUS ASSET MUST BE REPORTED TO 1800 500 253 IMMEDIATELY
You, your head contractor and any relevant subcontractor are all responsible for any Optus asset damage as a result of planned activities in the vicinity of Optus assets.

This applies where works commence prior to obtaining Optus drawings, where there is failure to follow instructions or during any construction activities.

Optus reserves the right to recover compensation for loss or damage to its assets including consequential loss. Also, you, your head contractor and any relevant subcontractor may also be liable for prosecution under the Criminal Code Act 1995 (Cth).

ASSET RELOCATIONS
You are not permitted by law to relocate, alter or interfere with any Optus asset under any circumstance. Any unauthorised interference with an Optus asset may lead to prosecution under the Criminal Code Act 1995 (Cth).

Enquiries relating to the relocation of Optus assets must be referred to the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

APPROACH DISTANCES
On receipt of Optus asset location drawings and prior to commencing any planned works near an Optus asset, engage an Optus Accredited Locator to undertake a general location of the Optus asset.

Physical location of the Optus asset by an Optus Accredited Locator will also be required where planned works are within the following approach distances of the general location of the Optus asset:

a) In built up metropolitan areas where road and footpaths are well defined by kerbs or other features a minimum clear distance of 1 meter must be maintained from the general location of the Optus asset.

b) In non-established or unformed metropolitan areas, a minimum clear distance of 3 meters must be maintained from the general location of the Optus asset.

c) In country or rural areas where wider variations may exist between the general and actual location of an Optus asset may exist, then a minimum clear distance of 5 meters must be maintained from the general location of the Optus asset.

If planned works are parallel to the Optus asset, then the Optus asset must be physically located by an Optus Accredited Locator at a minimum of 5 meter intervals along the length of the parallel works prior to work commencing.

Under no circumstances is crossing of any Optus asset permitted without physical location of the asset being carried out by an Optus Accredited Locator. Depending on the asset involved an Optus representative may be required onsite.

The minimum clearances to the physical location of Optus assets for the following specific types of works must be maintained at all times.

Note: Where the clearances in the following table cannot be maintained or where the type of work differs from those listed then advice must be sought from the relevant Optus Damages and Relocations Team (refer to "FURTHER ASSISTANCE").

Type of Works	**Clearance to Physical Location of Optus Asset**
Jackhammers / Pneumatic Breakers	Not within 1 meter.
Light duty Vibrating Plate or Wacker Packer type compactors (not heavy road construction vibrating rollers etc.)	500mm compact clearance cover before a light duty compactor can be used over any Optus conduit. No compaction permitted over Optus direct buried cable without prior approval from Optus.
Boring Equipment (in-line, horizontal and vertical)	Not within 5 meters parallel of the Optus asset location without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite. Not to cross the Optus asset without an Accredited Optus Asset Locator physically exposing the Optus asset and with an Optus representative onsite.

Type of Works	Clearance to Physical Location of Optus Asset
Heavy vehicle Traffic (over 3 tonnes)	Not to be driven across Optus conduits with less than 600mm of cover. Not to be driven across Optus direct buried cable with less than 1.2 meters of cover. Once off crossings permitted, multiple crossing (e.g. road construction or logging) will require Optus approval. Accredited Optus Asset Locator to physically expose the Optus asset to verify actual depth.
Mechanical Excavators, Farm Ploughing, Vertical Hole installation for water bore or fencing etc.	Not within 1 meter. Accredited Optus Asset Locator to physically expose the Optus asset to verify actual location.

ASSET CLEARANCES AFTER COMPLETION OF WORKS
All Optus pits and manholes must be a minimum of 1 meter from the back of any kerb, 3.5 meters of the road surface without a kerb or not within 15 meters of street intersection.

In urban areas Optus conduit must have the following minimum depth of cover:

- Footway 600mm;
- Roadway 1 meter at drain invert and at road centre crown.

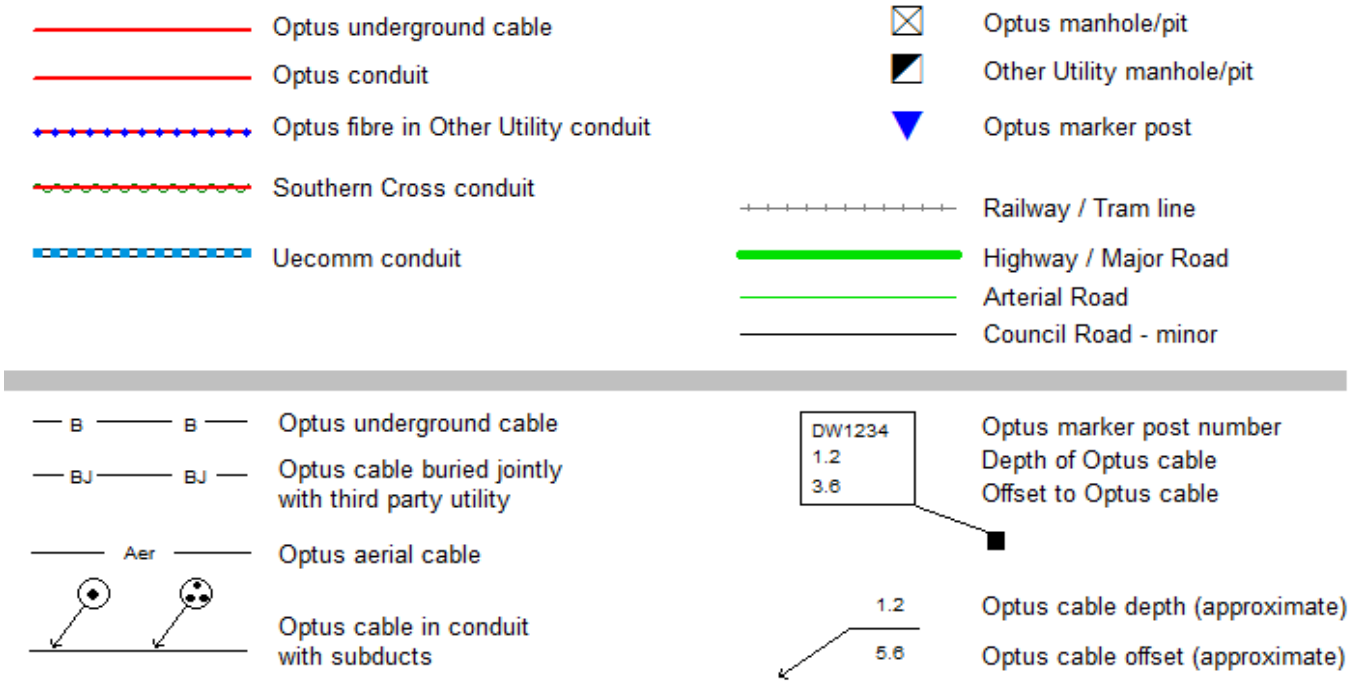
In rural areas Optus conduit must have a minimum depth of cover of 1 meter and direct buried cable 1.2 meters.

In cases where it is considered that the above clearances cannot be maintained at the completion of works, advice must be sought from the relevant Optus Damages and Relocations Team (refer "Further Assistance").

FURTHER ASSISTANCE
Further assistance on asset clearances, protection works or relocation requirements can be obtained by contacting the relevant Optus Damages and Relocations Team on the following email address:
NFODamages&RelocationsDropbox@optus.com.au

Further assistance relating to asset location drawings etc. can be obtained by contacting the Optus Network Operations Asset Analysis Team on 1800 505 777.

OPTUS ENGINEERING DRAWING SYMBOLS



OPTUS

Optus Accredited Asset Locators

Name	Company Name	Phone	Email	State	Region/Service Area
Alan Cordner	Alcom Fibre Services Pty Ltd	0400 300 337	alcomfibre@bigpond.com	NSW / ACT	Sydney
Brad McCorkindale	Bradmac Locating Services	0434 157 409	brad.mac@bigpond.com	NSW / ACT	All
Troy Redden	On Point Utility Locating	1300 6676 468	troy@onpointlocating.com.au	NSW	Sydney Only
Shane Buckley	Cable & Pipe Locations	0408 730 430	sabuckley@bigpond.com	NSW / QLD	Armidale, Casino, Coffs Harbour, Dorrigo, Glenn Innes, Grafton, Inverell, Kempsey, Lismore, Nambucca, Port Macquarie, Tamworth, Taree, Tenterfield, Yamba
Philip Pegler	Down Under Detection Services (DUDS)	0418 267 964	apegler@duds.net.au	NSW	All
Noreen Egan	SureSearch Underground Services	1300 884 520 0418 920 245	Noreen@suresearch.com.au	NSW / ACT / QLD	NSW, Sydney, Northern NSW, Canberra, QLD, South East QLD.
Leonard McGowan	Pipesure Australia	1300 411 811	len@pipesure.com.au	NSW	Sydney
Bruce Whittaker	Optical Fibre Technologies	0402 354 322	opticaltek1@aol.com	NSW	Sydney/Wollongong
Darryl Smith	Darryl Smith Electrical	02 6642 3731	office@dsmithelectrical.com.au	NSW	Grafton
George Koenig	Downunder Locations NSW Pty	0438 243 856	Downunderlocations@gmail.com	NSW	Tweed Heads, Gold Coast, Brisbane
Michael Grant	M&K Grant Bega Bobcats Pty Ltd	0427 260 423	zzbobcat@bigpond.net.au	NSW	Bega, Far South Coast
Antony Critcher	Geotrace Pty Ltd	0417 147 945	antony@geotrace.com.au	NSW	All Areas, Sydney, Wollongong, Newcastle, ACT

Anthony Lane	Hydro Digga	0447 774 000	locator@hydrodigga.com	NSW	All of NSW, ACT & South East Qld
Grant Pearson	Australian Utilities Management Pty Ltd	0427 833 222	aine@ausutilities.net.au	NSW	Sydney Metro
Nathan Ellis	Utility Locating Services	0404 087 555	nathan@utilitylocatingservices.com.au	NSW	Sydney
Rodney Pullen	Provac	0450 268 012	rod@provac.net.au	NSW /QLD	South East QLD, Northern NSW
Rodney Pullen	One Find Cables	0451 268 012	rod@provac.net.au	NSW /QLD	South East QLD, Northern NSW
Drew Misko	Australian Subsurface Pty Ltd	0427 879 600	admin@australiansubsurface.com	NSW / ACT	All of NSW/ACT
Scott O'Malley	Coastal Cable Locators Pty Ltd	0427 975 777	skomalley@bigpond.com	NSW	South Coast- Snowy Mountains- Southern Highlands
Liam Bolger	Brandon Construction Services	0438 044 008	liam.bolger@hotmail.com	NSW	Bathurst, Orange, Dubbo
Brett Pickup	All About Pipes	02 8763 4200	Brett.Pickup@allaboutpipes.com.au	NSW / VIC	All
Karen Joyce	Durkin Construction Pty Ltd	02 9712 0308	karen@durkinconstruction.com.au	NSW	Sydney
Timothy Laidler	Locate & Map	0431 191 669	tim@locateandmap.com.au	NSW	Sydney, Central Coast
Ken Brown	Riteway Traffic Control Pty Ltd	0419 212 969	kbrowne@ritewaytc.com.au	NSW	Central Coast, Hunter
Walter R Johansen	Steger & Associates	02 6296 4089	enquiries@steger.com.au	ACT / NSW	Canberra
Jean-Max Monty	Civilscan	0416 068 060	civilscan@bigpond.com	NSW	Sydney – Central Coast – Newcastle – Wollongong – Hunter Valley – Blue Mountains
Alan Hunter	Hunter Ground Search	02 4953 1244 0418 684 819	huntergroundsearch@bigpond.com	NSW	Newcastle, Central Coast, Hunter Valley, Mid North Coast, Liverpool Plains, Central West NSW
Gilbert J Cook	Datateks Communications Specialists	0408 693 660	datateks@datateks.com.au	NSW	Southern NSW

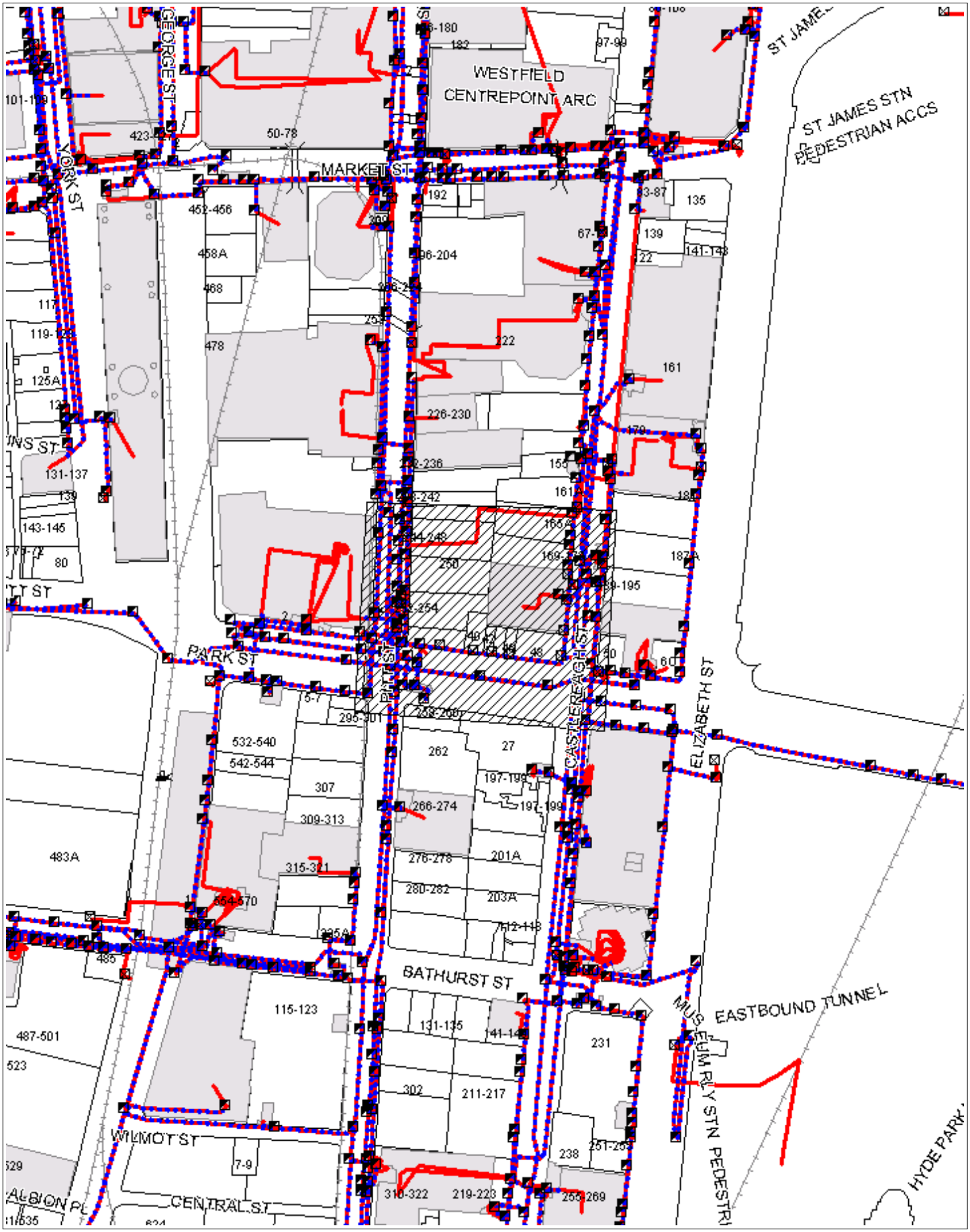
Damien Black	Mid North Coast Hydro Digging	0418 409 465	dblack1@bigpond.com	NSW	Newcastle –Foster –Taree -Wauchope -Port Macquarie -Kempsey -Coffs harbour
Sean Henry	Utility Mapping Pty Ltd	0428 229 919	sean@utilitymapping.com.au	NSW	Sydney
Daniel Fox	Epoca Environmental Pty Ltd	02 4739 2465 0433 100 642	daniel@epocaenvironmental.com.au	NSW	All NSW, ACT
Rod Shaw	Cable Find	0478 887 073	rod@cablefind.com.au	NSW	Northern Rivers
Danny Carter	Online Pipe & Cable Locating	1300 665 384	danny@onlinepipe.com.au	NSW	Sydney, Newcastle, Canberra, Blue Mountains
Sam Romano	Locating Services	0403 065 510	sam.romano@locatingservices.com.au	NSW	NSW All
Scott Allison	Crux Surveying Australia	02 9540 9940	sydneyoffice@cruxsurveying.com.au	NSW	Sydney Metro & Surrounding Areas
Ian Brown	Peter Ellsmore & Associates	0439 423 708	ian.brown@ellsmore.com.au	NSW	Wollongong, Illawarra, South Coast, Southern Highlands, Macarthur & Sydney
Donna Wullaert	Commence Communications Pty Ltd	02 6226 3869 0428 595 620	admin@commencecomms.com.au	NSW	Canberra, Yass, Bungendore, Goulburn and Surrounding regional Areas
Stephen Fraser	Advanced Ground Locations	02 4930 3195 0412 497 488	steve_agl@hotmail.com	NSW	Newcastle, Hunter Valley, Central Coast, Taree & Surrounding Areas
Andrew Findlay	LiveLocates	0429 899 777	info@livelocates.com.au	NSW	South Coast/ACT, Snowy Mountains
Graeme Teege	Armidale Electrical	0456 294 384	office@armidale-electrical.com.au	NSW	Armidale
Myles Green	Australian Locating Services	1300 761 545	myles@locating.com.au	NSW	Sydney
Brett Wallin	Utility Scan	0426 354 051	brett@utilityscan.net	NSW	Sydney CBD and Regional areas
Daniel Hudson	One Search Locators	1300 530 420	daniel@onesearchlocators.com.au	NSW	All NSW, ACT
Tim Galaz	Utec Solutions	02 9389 0040	office@utecsolutions.com.au	NSW/QLD /VIC	All areas, NSW, QLD, VIC

Gary Laneyrie	Laneyrie Electrical	0412 079 079 0413 048 048	bindy@laneyieelectrical.com.au	NSW	Illawarra, South Coast, Hunter Region
Reece Gainsford	East Coast Locating Services	0431 193 111	eastcoastlocating@hotmail.com	NSW	Sydney, Maitland, Newcastle, Hunter, Port Stephens, Central Coast
Allan Clarke	The Control Group Pty Ltd	0421 960 017	allan@thecontrolgroup.com.au	NSW	Northern NSW
Simon Cook	Douglas Partners	0431 507 667	simon.cook@douglaspartners.com.au	NSW	NSW All
Laurence Mead	Veris	0419 770 560	i.mead@veris.com.au	NSW	Sydney
Bobby Friesz	Vac Group Operations (T/A Earth Radar)	0447 837 267	Bobby.Friesz@vacgroup.com.au	NSW	Sydney
Chris Hall	D C Locators Pty Ltd	0419 679 741	dcloc@powerup.com.au	QLD	Brisbane, Ipswich
Jeff Trackson	J.R & L.M Trackson Pty Ltd	0417 600 978	jtrackson@tracavoid.com.au	QLD	All
Benji Lee	LADS	0478 915 237	benji@ladsqld.com.au	QLD	South East QLD
Andrew Watson	Lambert Locations Pty Ltd	07 5562 8400	admin@lambertlocations.com.au	QLD	South East QLD & Northern NSW
Ross Clarke	FNQ Cable Locators Pty Ltd	0428 775 655	onlineco@bigpond.net.au	QLD	Far North QLD, Cape York & Peninsula
Col Greville	Bsure Locators	0488 520 688	admin@bsurelocators.com.au	QLD	Wide Bay Burnett and Central Qld
Mikael White	All Asset Locations	0478 846 025	allassetlocations@gmail.com	QLD	Sunshine Coast
Andrew Cowan	VAC Group Operations (T/A Earth Radar)	0447 008 806	andrew.cowan@vacgroup.com.au	QLD	South East and Central QLD
Jimmy Wilkins	GeoRadar Australia	0425 677 227	jimmy@georadar.net.au	QLD	Emerald, Bundaberg
Beaumont Blake	PipeHawk CCTV	0435 558 533	accounts@pipehawkcctv.com.au	QLD	South East QLD & Northern NSW
Craig Waite	C Locate	0437 808 444	clocate@bigpond.com	QLD	South East QLD
QLD Operations	Utility Location Services	0499 775 095 07 3807 3552	qldops@utilitylocationservices.com.au	QLD	SouthEast QLD, Northern NSW
Andrew Watson	RPS AUS East	0408 839 723	andrew.watson@rpsgroup.com.au	QLD	Brisbane
Sean Henry	Utility Mapping Pty Ltd	0428 229 919	sean@utilitymapping.com.au	QLD	All

Jenny Dziduch	1300 Locate Pty Ltd	1300 562 283	admin@1300locate.com.au	QLD	All Queensland, Northern NSW
Sam Hazel	Utility ID Underground Service Locators	0401 202 515	sam@utilityid.com.au	QLD	Southern QLD
Brendon Smith	Dynamic Hydro Excavations	1300 822 878	admin@dynamicexcavation.com.au	QLD	QLD, NSW, VIC
Marty Carlson	Surveywerx Pty Ltd	0488 842 110	mike@surveywerx.com	QLD	South East QLD
Adam Lloyd	Aussie HydroVac Services	07 3287 7818	adam.lloyd@aussiehydrovac.com.au	QLD	All
Gary Poppi	Ace Cable Locations	0431 517 837	garypoppi@bigpond.com	QLD	Wide Bay Burnett
Josh Taylor	Advanced Locations Victoria	0427 846 716	josh@advancedlocationsvic.com.au	VIC	All
Ben Minutoli	Geelong Cable Locations	1800 449 543	ben@geelongcablelocations.com.au	VIC	Melbourne, Geelong, Country Victoria
Mick McGoldrick	Cavan Constructions	0404 241 679	mick@locatecables.com	VIC	Western Victoria
David Kelleher	Construction Sciences	03 9553 7236	utilities@constructionsciences.net	VIC	Victoria
Stuart Miles	ELS Environmental Location Systems	03 8795 7461	accounts@radiodetection.com.au	VIC	Victoria
Darren Dean	Asset Survey Solutions	1300 035 796	darren.dean@assetsurvey.com.au	VIC	Victoria
Alex Jones	Utility Mapping Pty Ltd	0417 413 353	ajones@utilitymapping.com.au	VIC	
Adam Linford	Gippsland Pipe & Cable Locations	0409 386 817	gippspac@hotmail.com	VIC	Gippsland
Thomas Pitt	Access Utility Engineering (AUE)	03 9580 0440	info@accessue.com.au	VIC	Victoria
Bernie Acabal	Taylors Development Strategists	03 9501 2800 0419 758 794	b.acabal@taylorsds.com.au	VIC	Victoria
Philong Nguyen	Asset Detection Services Pty Ltd	0413 949 400	phi.nguyen@assetdetection.com.au	VIC	VIC, NSW, TAS All areas
Maurice Tobin	Drain Solutions	1300 546 348	info@drainsolutions.com.au	VIC	Melbourne Metro
Nathan Kelleher	Seeker Utility Engineering	0439 691 840	nathan.kelleher@seekerutility.com.au	VIC	Melbourne
Jeffrey Ramos	VAC Group Operations (T/A Earth Radar)	0436 635 011	Jeffrey.ramos@earthradar.com.au	VIC	All

Infrastructure Civil Services	Trenchless Pipelaying Contractors (TPC)	08 8376 5911	tpc@trenchlesspipelaying.com.au	SA	All
Sean Nemeth	Enerven Energy Infrustructure Pty Ltd	0488 167 772	sean.nemeth@enerven.com.au	SA	Adelaide
Galen Shanahan	Vac Group Operations (T/A Earth Radar)	0447 837 000	Galen.Shanahan@vacgroup.com.au	SA	All
Marilyn Dentice	Cable Locates & Consulting	08 9524 6600	accounts@cablelocates.com.au	WA	Metro & Country
Lisa Scofield	Abaxa	08 9256 0100	accounts@abaxa.com.au	WA	All
Derek McShane	Subterranean Service Locations	0420 862 426	Derek@sslwa.com.au	WA	Midwest/Gascoyne
Ben Upton	TerraVac Vacuum Excavation	0427 531 119	locations@terravac.com.au	WA	All
Dale Shearsmith	Subtera Subsurface Locating	1300 046 636	dale@subtera.com.au	WA	All
Liam Davies	Bunbury Telecom Service Pty Ltd	08 9726 0088	liam@btswa.com.au	WA	South West WA
Tammy Thorp	B.C.E Spatial	08 9364 6408	admin@bcespatial.com.au	WA	Perth Metro & Regional
Geoff Warren	Utility Mapping Pty Ltd	0472 815 238	gwarren@utilitymapping.com.au	WA	
Chris Lee	Pulse Locating	0437 289 861	enquiries@pulselocating.com.au	WA	Perth
Morgan O'Connor	Kier Contracting	1300 543 728	morgan@kier.com.au	WA	Perth Metro & Greater region, Regional WA
Nigel Nunn	CCS Group / Utility Locating Solutions	08 9385 5000	enquiry@ccswa.com.au	WA	Perth
Paul Stevenson	Geographe Underground Services	0427 523 811	paul.stevenson@geographeunderground.com.au	WA	All
Tim Daws	Award Contracting	0411 878 895	info@awardcontracting.com.au	WA	City & Regional
Dave Turner	Anywair Pipe & Cable	0418 890 071	dave@anywair.com.au	NT	All NT, WA, QLD
Steve Gault	Northern Comms	0407 904 319	steve@northerncomms.net.au	NT	All
Wayne Parslow	Danisam	0417 089 865	danisam@westnet.com.au	NT	Darwin NT and Surrounds
Elizabeth Young	Archers Underground Services Locations (AUS Locations)	03 6245 1298	admin@auslocations.com.au auslocations@bigpond.com	TAS	All

Patrick Monaghn	Paneltec Group	0447 797 544	patrick@paneltec.com.au	TAS	All
Scott Richardson	AJ Water & Leak Detection	0457 710 680	admin@ajwater.com.au	TAS	All



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Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed please raise a new enquiry.

Sequence Number: 92397596

Date Generated: 21/11/2019

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

To: Ms Yiqing Kong

Level 4 73 Walker St
North Sydney, NSW, 2060

Uecomm Pty Limited
ABN 56 079 083 195

Building 8, 658 Church St,
Richmond, VIC 3121
Ph: (03) 9221 4100
Fax: (03) 9221 4193
Ah: 1800 707 447

LOCATION OF UNDERGROUND FIBRE OPTIC CABLE INFORMATION SHEET

IMPORTANT: PLEASE READ ALL INFORMATION AND CONDITIONS BELOW AND THE NOTICE ON THE REVERSE SIDE OF THE PLAN/S.

"Dial Before You Dig" Sequence No 92397596	**Issue Date:** 21/11/2019
Customer ID 1880207	**Issue By:**

Location: **254 Pitt Street, Sydney, NSW 2000**
Map Ref: **236D11, 236E11, 236E12**
Uecomm Asset Location No. **92397596**
Dial Before You Dig Job No. **18616279**

In relation to your enquiry at the above address, Uecomm advises as follows:

The records of Uecomm Limited disclose that there ARE underground FIBRE OPTIC / TELECOMMUNICATIONS cables in the vicinity of the above enquiry as per attached plan/s.

- The underground cables referred to in this advice are defined as the underground communications cables owned or controlled by Uecomm Pty Limited.
- The person/company responsible for submitting the inquiry should take care to ensure all plans listed above have been received. For any plan listed above but not received please contact **1800 707 447**.
- Any information provided is valid only for **30 days** from the date of issue set out above.
- If the work operations extends beyond this period, or if the designs are altered in any way, you are requested to resubmit your proposal for reassessment.
- Further assistance may be obtained if necessary by telephoning **1800 707 447**.

PLEASE READ ALL INFORMATION AND DISCLAIMERS BELOW:

1. Due to the nature of underground cables and the age of some cables and records, it is impossible to conclusively ascertain the location of all cables. The accuracy and/or completeness of the information cannot be guaranteed and, accordingly, they are intended to be indicative only and, as a result, Uecomm does not accept any responsibility for any inaccuracies of its plans. They should not be solely relied upon when undertaking underground works. It is also inaccurate to assume that fibre optic cables follow straight lines and careful on-site investigations are essential to locate its exact position.

2. The following minimum clearances must be maintained:
   - 300mm when laying asset's inline, horizontal or vertical.
   - 500mm when operating vibrating equipment, e.g., jackhammers or vibrating plates.
   - 1000mm when operating mechanical excavators.

3. Due to the inherent dangers associated with excavation in the vicinity of underground cables, precautions should be taken in the undertaking of any underground works, including (but not limited to) the following:
   - All excavation sites should be examined for underground cables by careful hand excavation. Cable cover slabs if present must not be disturbed. Hand excavation needs to be undertaken with extreme care to minimise the likely hood of damage to the cable, e.g., blades of hand equipment should be orientated parallel to the line of the cable rather than digging across the cable.
   - If any undisclosed underground cables are located, Uecomm Limited should be notified immediately.
   - All personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment.
   - All excavations must be undertaken in accordance with the relevant legislation and regulations.

4. **DAMAGE. ANY DAMAGE TO UECOMM'S NETWORK MUST BE REPORTED IMMEDIATELY TO 1800 707 447**.

5. Uecomm recommends using Uecomm approved location contractors to provide on-site location services for Uecomm plant. You can arrange Uecomm on-site visits by calling Uecomm on 1800 707 447 and Uecomm or its approved representative will attend your site to provide guidance to the location of the Uecomm assets (the *"Uecomm Asset Alignment"*). **Uecomm requires 3 clear business days notice to conduct an on-site location.** The initial on-site visit by Uecomm will not normally incur a charge, but at the discretion of Uecomm, subsequent site visits may incur a charge to be applied at an hourly rate.

6. Uecomm will hold the relevant party responsible for any damage to Uecomm plant and all expenses incurred by Uecomm as a result of asset damage.

7. Except to the extent that liability may not be capable of lawful exclusion, Uecomm Pty Limited and its servants and agents and the related bodies corporate of Uecomm Pty Limited and their servants and agents shall be under no liability whatsoever to any person for any loss or damage (including indirect or consequential loss or damage) however caused (including, without limitation, breach of contract negligence and/or breach of statute) which may be suffered or incurred from or in connection with this information sheet or any Plans attached hereto. Except as expressly provided to the contrary in this information sheet or the attached Plans, all terms, conditions, warranties, undertakings or representations (whether expressed or implied) are excluded to the fullest extent permitted by law.

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service and/or Uecomm Asset Analysis Service. If you require further information please contact Uecomm on **1800 707 447**.

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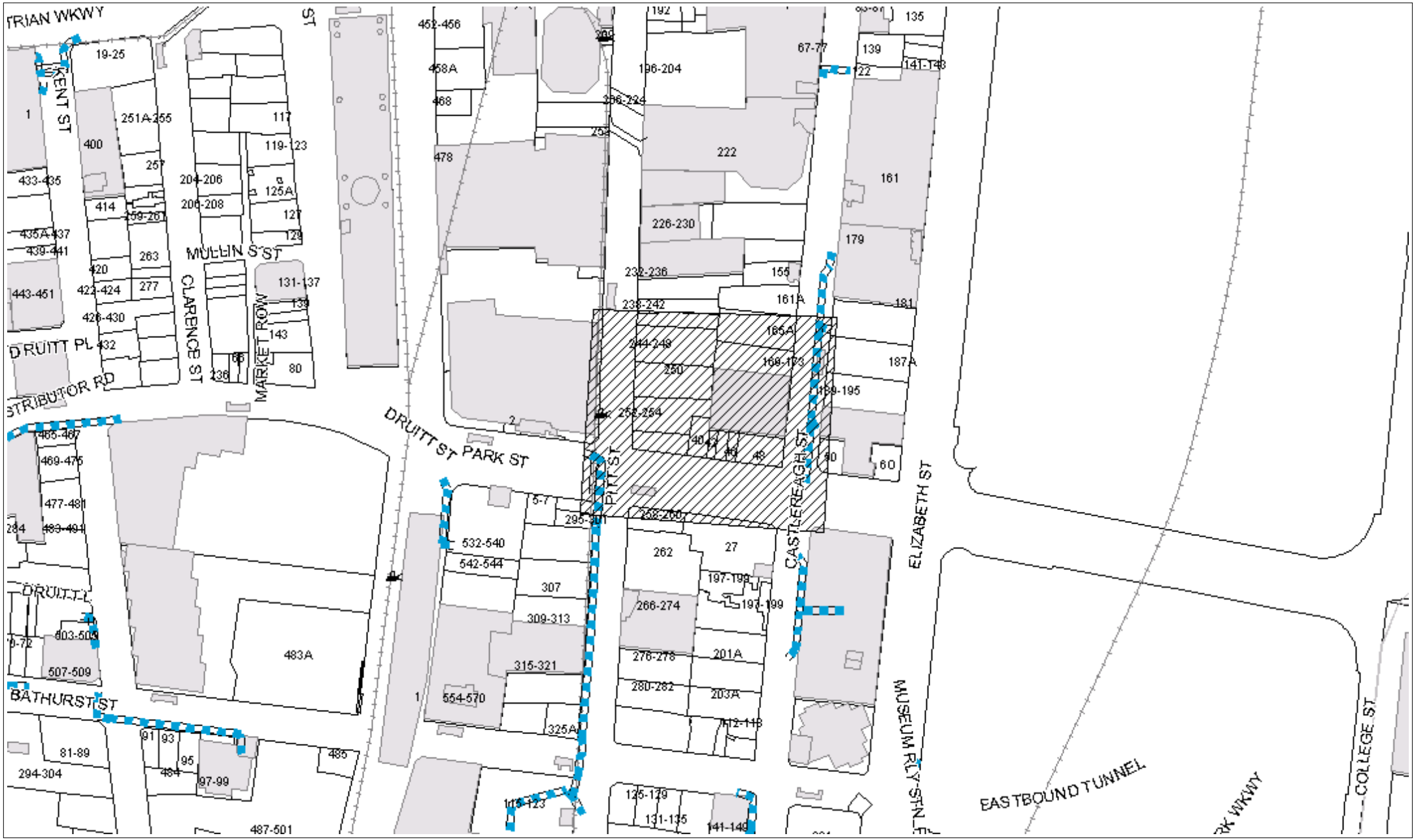

Uecomm

Cable Uecomm Underground

Scale: #INSERT MAP SCALE# Printed On: 21/11/2019

Sequence Number: 92397596

Location: 254 Pitt Street

Job Location: Line, Point, Area

Undergound Asset: Uecomm

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To: Ms Yiqing Kong

Level 4 73 Walker St
North Sydney, NSW, 2060

Uecomm Pty Limited
ABN 56 079 083 195

Building 8, 658 Church St,
Richmond, VIC 3121
Ph: (03) 9221 4100
Fax: (03) 9221 4193
Ah: 1800 707 447

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We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service and/or Uecomm Asset Analysis Service. If you require further information please contact Uecomm on **1800 707 447**.

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LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- UE P5 PIT
- UE P6 PIT

B/L - BUILDING LINE

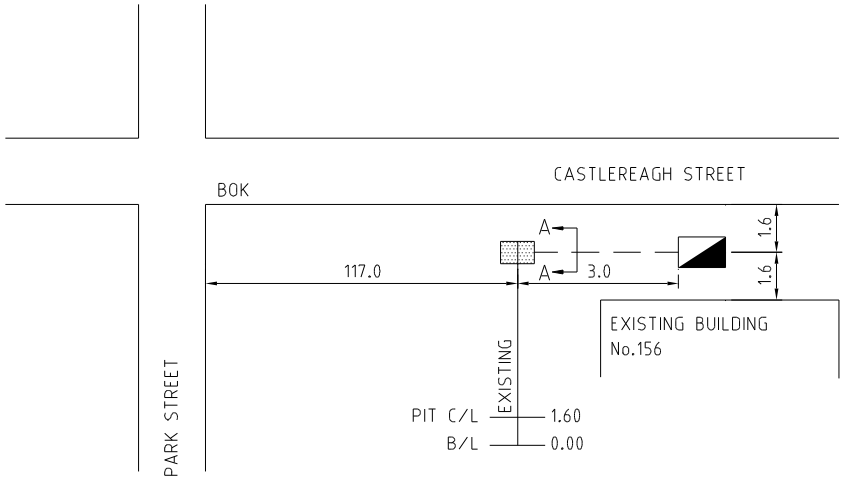
PIT C/L - PIT CENTER LINE FROM B/L

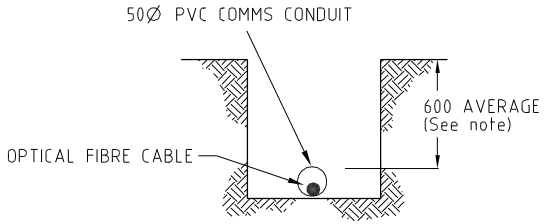
BOK - BACK OF KERB

CO - COVER

- FENCE LINE
- TELSTRA MANHOLE
- TELSTRA PIT
- TELSTRA 6 PIT
- TELSTRA 8 PIT
- COMMUNICATION MANHOLE

COM





SECTION A-A

Note:
Conduit depths quoted are approximate only and may change due to unforseen circumstances.
Excavate by hand until conduit depth is determined.

''AS-BUILT'' PLANS

NOTE: - ALL DIMENSIONS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.

REVISIONS

REV	DESCRIPTION	DATE	CHECKED	APPROVED
A	INITIAL ISSUE (FOR JERRY)	05.03.01		
-	RENUMBERED. WAS BCE-00-0081	15.03.01		
A	PARK ST AND DIM ADDED	02.04.01		

BCE
Brice Civil Engineering Pty Ltd
A.B.N. 13 087 182 581
P.O. Box 378 Cherrybrook NSW 2126 Ph:(02) 8850 7550 Fax: (02) 8850 7551

Uecomm™
MAKING THE CONNECTION
ACN 079 083 195

APPROVED: R.BROWNE

UBD REF: 3-J5

PROJECT:
STREET: No. 156 CASTLEREAGH ST
SUBURB: SYDNEY (CITY)
CONDUIT: 50mm
DEPTH: 0.6m

METHOD: DIRECTIONAL BORE AND EXCAVATION

SCALE:	DRAWN	SIZE
NOT TO SCALE	SSQ P/L	A3

DOCUMENT No:	DATE:	REVISION:
OFN5/SYD/2177/1	05.03.01	A

PREPARED BY: S & S QUIRK PTY LTD PH:(02) 9482 7944 FAX:(02) 9482 7955. ON BEHALF OF BCE FOR UE COMM.

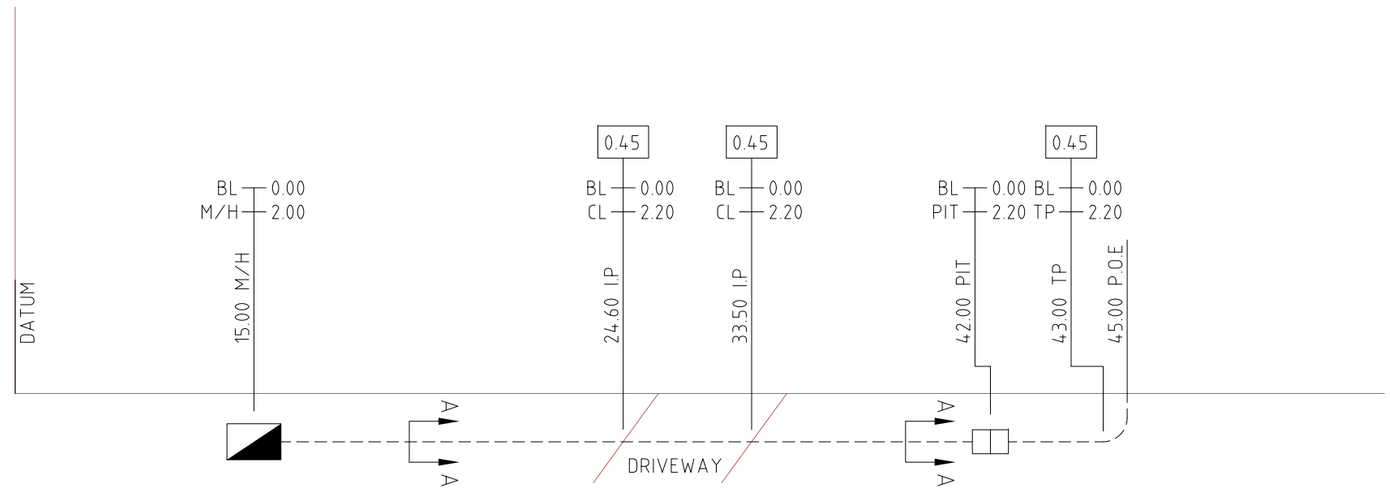
LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT

BL - BUILDING LINE
BOK - BACK OF KERB
CL - CENTRELINE OF CONDUIT
TP - TURNING POINT OF CONDUIT
P.O.E - POINT OF ENTRY
I.P - INTERSECTION POINT

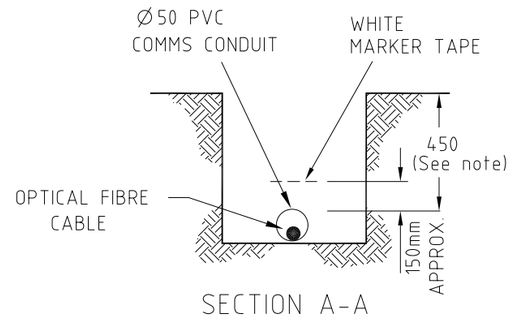
- FENCE LINE, FL
- TELSTRA MANHOLE
- TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE

0.6m - CABLE DEPTH



CASTLEREAGH STREET

PARK STREET



SECTION A-A

TRENCH

DRAWING NOT TO SCALE

Note:
1. Conduit depths quoted are approximate only and may change due to unforseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. White marker tape shall be installed at least 150mm above the uppermost surface of all conduits or cables.

COMMUNICATIONS PTY LTD
Communication Consultants & Contractors

REVISION				
-	-	-		
DATE	REV.	REVISION DESCRIPTION	CHECKED	APP'D.

CONTACT OFFICER	Matthew McGavin PH: (03) 9544 3877
PROJECT NUMBER	UEC-PHFXS-105
PLAN No.	
MELWAY / UBD REF	3 J6-7

Uecomm™ MAKING THE CONNECTION
ACN 079 083 195

UECOMM
MEL/SYD/QLD

DRAWN	BAYSIDE (SHM 04/08/04
DESIGN CHECKED	
APPROVED	

DRG No. OFN5/SYD/2596-1 -

U/G OPTICAL FIBRE CABLE RUN
CASTLEREAGH STREET
CASTLEREAGH ST & PARK ST
SYDNEY NSW 2000

A3

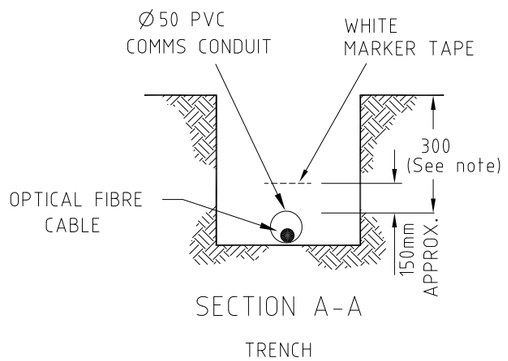
LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT

BL - BUILDING LINE
BOK - BACK OF KERB
CL - CENTRELINE OF CONDUIT
TP - TURNING POINT OF CONDUIT

- FENCE LINE, FL
- TELSTRA MANHOLE
- TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE

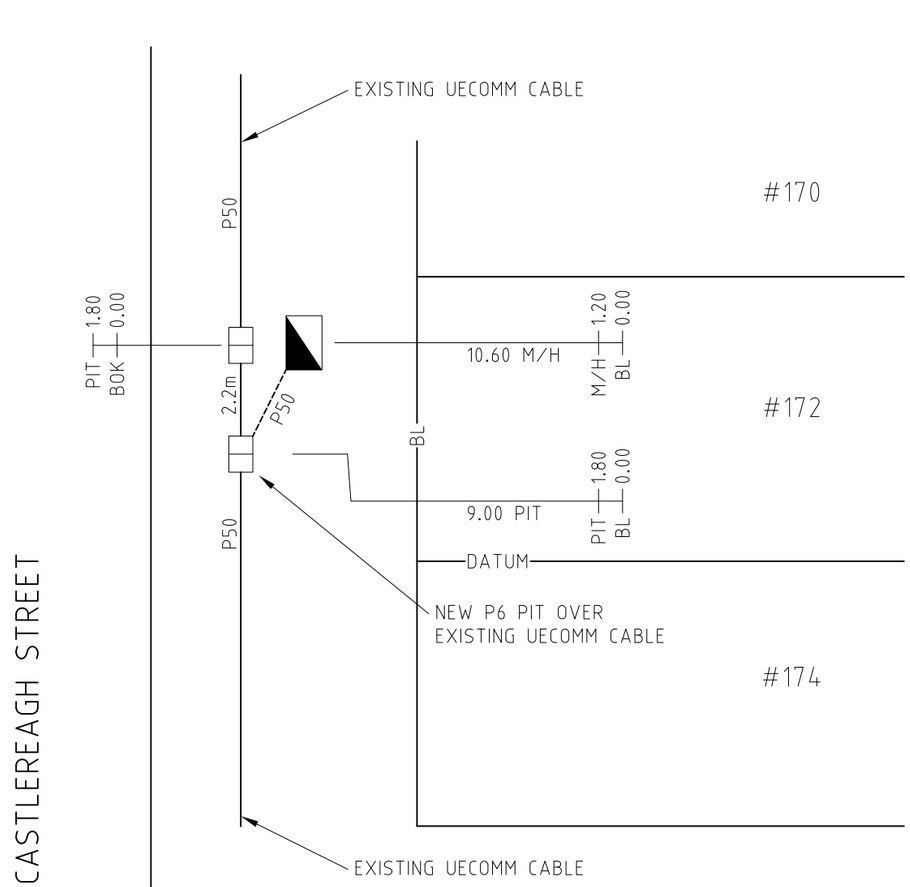
0.6m - CABLE DEPTH



SECTION A-A

TRENCH

Note:
1. Conduit depths quoted are approximate only and may change due to unforseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. White marker tape shall be installed at least 150mm above the uppermost surface of all conduits or cables.



DRAWING NOT TO SCALE

REVISION					
19.03.12	A	NEW PIT (JPMOS-168)	VPL		
DATE	REV.	REVISION DESCRIPTION	CHECKED	APP'D.	

CONTACT OFFICER	Simon Hallard-Metcalf PH: (03) 9544 3877
PROJECT NUMBER	UEC-AADSS-117
PLAN No.	
MELWAY / UBD REF	UBD 3 J6

Uecomm MAKING THE CONNECTION
ACN 079 083 195

UECOMM
MEL/SYD/QLD

DRAWN *BAYSIDE 08/02/05*
DESIGN CHECKED
APPROVED

DRG No. OFN5/SYD/2620-1 A

U/G OPTICAL FIBRE CABLE RUN
L8 54-58 PARK ST
PARK ST & CASTLEREAGH ST
SYDNEY NSW 2000

A3

Response Cover Letter

Date: 21/11/2019

PIPE Networks
Level 17, 127 Creek St
Brisbane QLD 4000
Phone: +61 732339895
Fax: +61 732339880

To:

Ms Yiqing Kong - Customer ID: 1880207
LCI - Ms Yiqing Kong
Level 4 73 Walker St
North Sydney
NSW
2060

Email: alison.kong@lciconsultants.com.au
Phone: 0466830473
Fax: Not Supplied
Mobile: 0466830473

Dear Ms Yiqing Kong

The following is our response to your Dial Before You Dig enquiry.

Assets Affected: PIPE Networks

Sequence Number: 92397593

Location: 254 Pitt Street
Sydney
NSW
2000

Commencement Date: 01/02/2020

Please read over the attached documents for more information about your enquiry.

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence.*

Note: *If the works fall in an area that adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Level 17, PIPE Networks House, 127 Creek Street, Brisbane 4000
PH:(07) 3233 9895 FAX:(07) 3233 9880

Attention: Ms Yiqing Kong
Fax: Not Supplied
DBYD Enquiry Number: 92397593

Date: 21/11/2019

Location: 254 Pitt Street
Sydney
NSW
2000

DBYD ENQUIRY RETURN:

PIPE Networks **DOES** own or operate telecommunications network infrastructure within the area detailed above.

The affected network **is contained in the PIPE Networks duct network** and can be found on **PIPE Networks** own network plans.

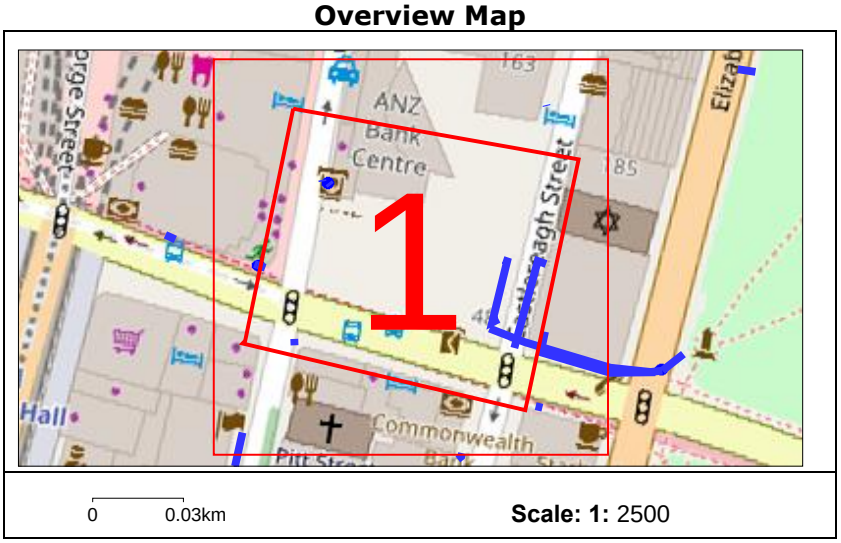
This network is vital to our operations and as such, it is critical that no works commence within the area until a PIPE Networks representative has contacted you.

A PIPE Networks representative will contact you within 24 hours to further discuss your intended works. If you do not hear from PIPE networks within 24hours please call us for assistance.

Due to continued network expansion, this network information can only be considered valid and accurate for 28 days from issue.

PIPE Networks will seek compensation for any damage to its network through negligence or ignorance of your duty of care.

Overview Map



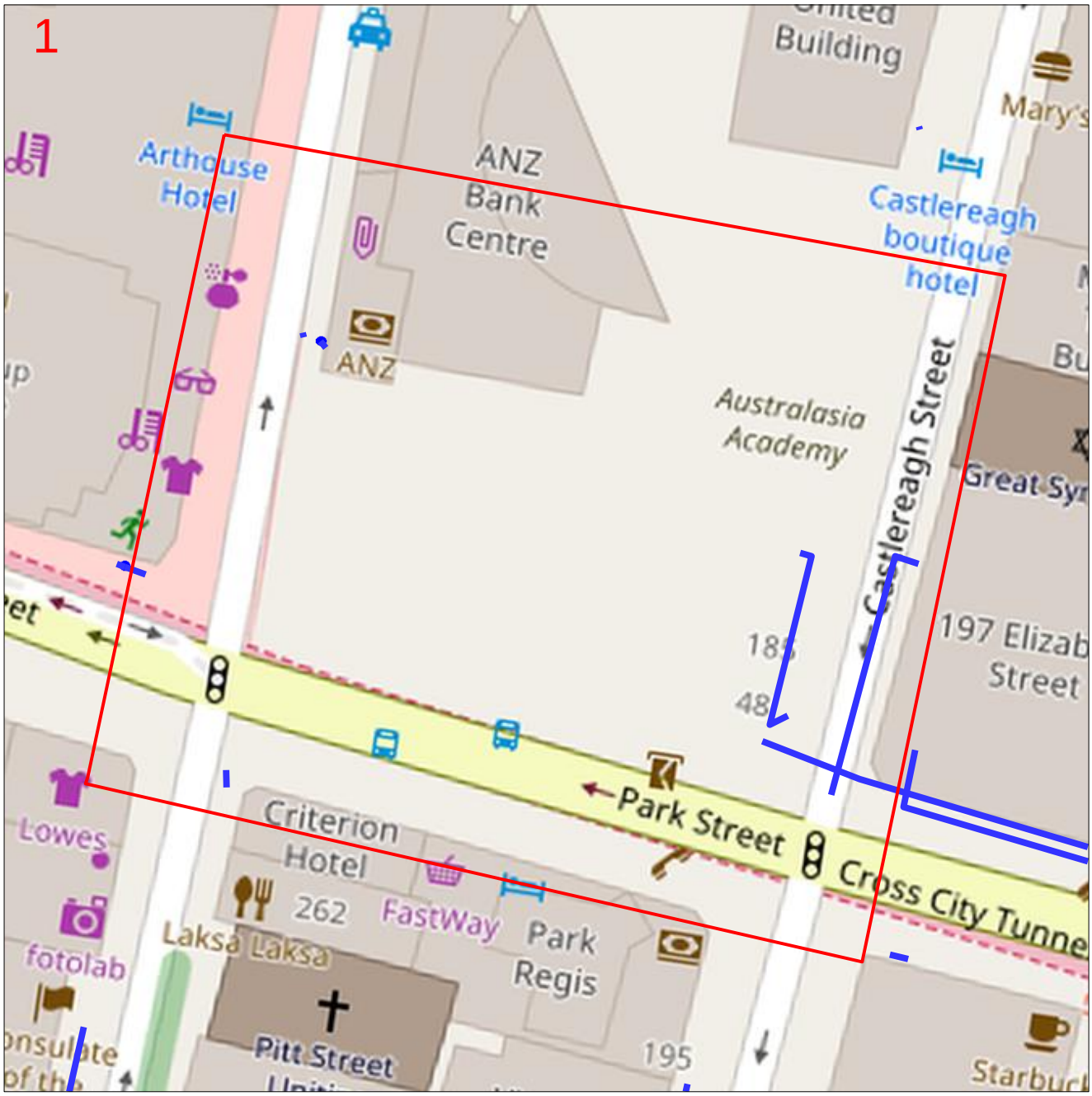
PIPE Networks (for information specific to this job only)
Ph (07) 3233 9895
Email: dbyd@pipenetworks.com

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence.*

Note: *If the works fall in an area that adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 92397593

Map Sheet: 1

Scale: 1:750

0 0.008km

LEGEND

DBYD Request Area

Line

Area

Asset

Manhole

Duct

N

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.*

Note: *If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Level 17, PIPE Networks House, 127 Creek Street, Brisbane 4000
PH:(07) 3233 9895 FAX:(07) 3233 9885

DBYD ENQUIRY RETURN:

PIPE Networks **DOES** own or operate telecommunications network infrastructure within the request area detailed above.

The affected network infrastructure is contained within the **Telstra** duct network and can be found listed on the appropriate **Telstra** duct Network plans.

THIS NETWORK IS VITAL TO OUR OPERATIONS AND AS SUCH, IT IS CRITICAL THAT **NO WORKS** COMMENCE WITHIN THE AREA UNTIL YOU HAVE RECEIVED AND APPRAISED THE TELSTRA DUCT PLANS FOR THIS AREA.

Due to continued network expansion, this network information can only be considered valid and accurate for 28 days from issue.

PIPE Networks will seek compensation for any damage to its network through negligence or ignorance of your duty of care.

PIPE NETWORKS
Ph (07) 3233 9895
Email: dbyd@pipenetworks.com
(for information specifically on this job only)

Spatial Services
Works likely to impact survey marks

Penalties apply for unauthorised removal, damage, destruction, displacement, obliteration or defacing of survey marks

ISSN 2203-9384 Information Sheet July 2018

Legislation

Survey marks are protected under the *Surveying and Spatial Information Act 2002 (NSW) Section 24.* The following penalties and orders apply for unauthorised removal, damage or disturbance of survey marks:

- Maximum penalty of 25 units, currently **$2,750** per mark; and
- up to **$10,000** per mark in compensation to the Surveyor-General towards the cost of reinstatement of each survey mark; and
- up to **$10,000** per mark in compensation to any other person towards any loss or damage suffered by that person as a consequence of the offence.

If works are likely to impact a survey mark, an application under the *Surveying and Spatial Information Regulation 2017 Clause 90* must be lodged with the Surveyor-General.

Why are survey marks important?

Survey marks are a State asset and provide a wealth of important information to a wide range of people in the community. They are used to support the surveying of property boundaries and easements, and are important for engineering, road building, mapping and other land surveys.

The loss of survey marks can significantly degrade the integrity of the legal property boundaries and impact on the costs of development projects that depend upon position and height.

How do I preserve survey marks?

Surveyor-General's Direction No.11 – Preservation of Survey Infrastructure provides directions on how to comply with the Legislation.

You can find the Direction on the following link: http://spatialservices.finance.nsw.gov.au/__data/assets/pdf_file/0005/217094/SG_Directon_No11_Final4.pdf

A Registered Land Surveyor will be able to provide advice about the preservation of survey infrastructure. A list of Registered Land Surveyors is available from the Board of Surveying and Spatial Information website: http://www.bossi.nsw.gov.au/about/find_a_registered_surveyor

Additional information to assist with best practice guidelines for road infrastructure development can be found in Roads and Maritime Services QA Specification *G71 – Construction Surveys* by following the link: http://www.rms.nsw.gov.au/business-industry/partners-suppliers/documents/specifications/g071.pdf

Types of survey marks

There are many types of survey marks used for various purposes. Many are buried and may only be identified by a Registered Land Surveyor. Some examples of common survey marks can be seen below.



More information

For more information or to obtain advice on compliance with Legislation, please forward your enquiry to: Surveyor-General-Approvals@finance.nsw.gov.au

Applications to remove a Survey Mark can be lodged here: http://spatialservices.finance.nsw.gov.au/surveying/surveying_services/forms_and_applications/survey_marks_removal

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Author: DFSI Spatial Services P18/10/036

DRAWN USING CAD
DO NOT AMEND MANUALLY

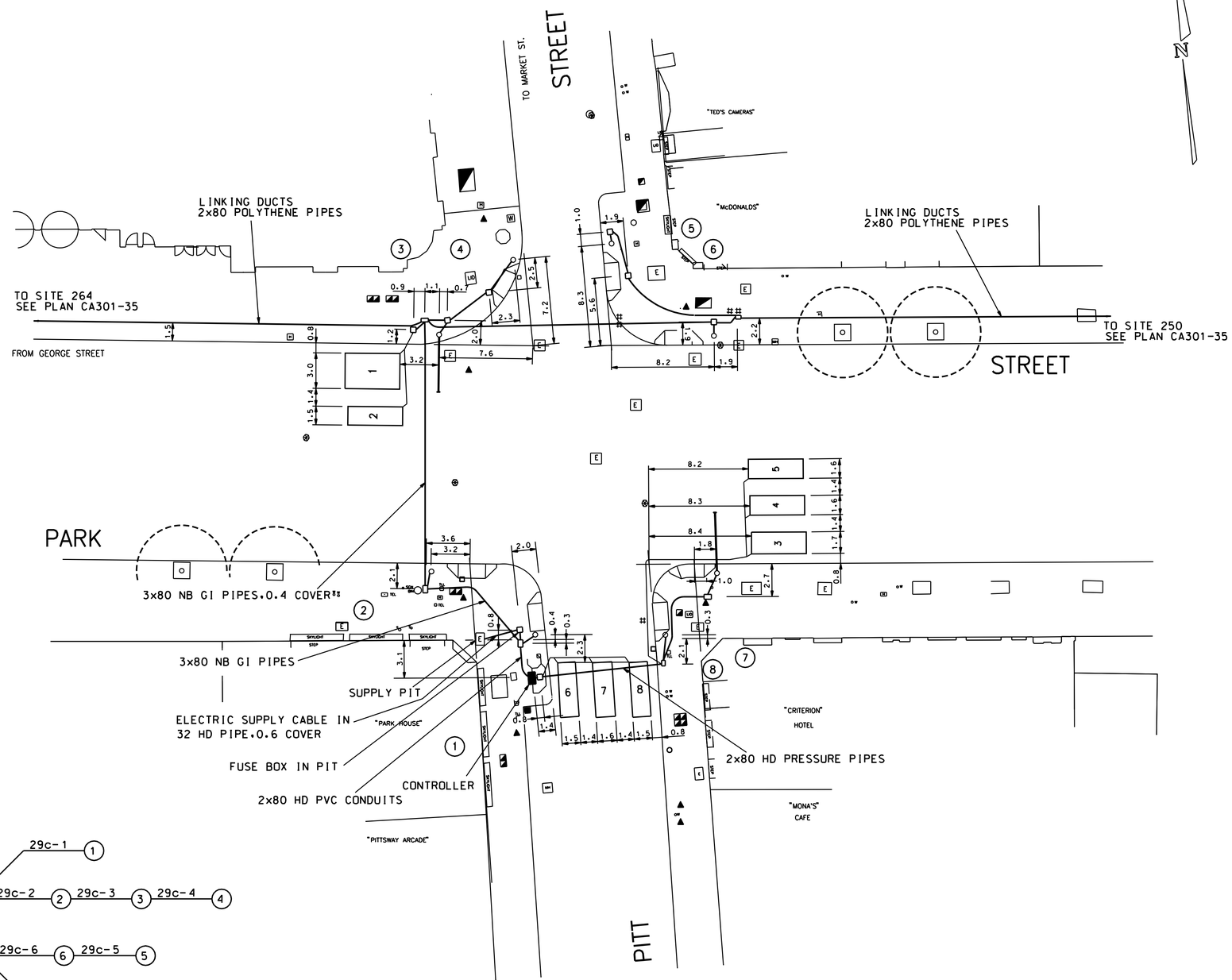
DATE IN SERVICE : 00/00/00

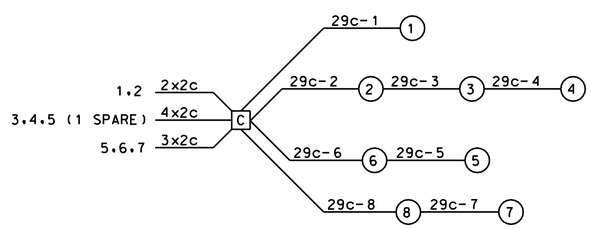
R T A

7000.412.VV.0235

NOTES

1. CABLE COVER: IN ROADWAYS 0.6m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x80 HD PVC OR 1x80 POLYTHENE UNLESS OTHERWISE STATED.
3. ALL ROADWAY CONDUITS ARE 3x80 NB GI PIPES UNLESS OTHERWISE STATED.
4. ALL FOOTWAY PITS SHOWN THUS:-
   - 600mmx450mm
   - 450mmx300mm
   - 450mmx450mm





CABLE LAYOUT

A	ORIGINAL ISSUE
B	ISSUE 02-06-2008 PLAN UPDATED TO SUIT WAE. DETS ALTERED & REND'ED. VW KERB ALTERED. JH LC
C	ISSUE 02-06-2008 J/I SC11449 DETS ALTERED TO SUIT BUS NETWORK DEVELOPMENT. JH LC

PUBLIC UTILITY LEGEND		REFERENCE PLANS	
HYDRANT	□	SYMBOLS/ABBS.	VD003-6
STOP VALVE	▲	STD POSIT	VD001-5
GAS VALVE	#	DET SCHED EXP	VD018-10
SEWER MANHOLE	⊗	PRES. DETECT	VC005-17
TELECOM PIT	◪	SSG DIS. SEQ.	VD018-8
ELECT LIGHT POLE	○	DESIGN LAYOUT	SHT 21
POWER POLE	○	CABLE CHART	SHT 23
STAY POLE	⊘		
TELEPHONE BOX	⚿	SURVEYOR : CITY OF SYDNEY	
TELECOM PILLAR	◍	DATE : 11.01.98	

U.B.D. Ref. MAP 3 H6
I.S.G. E: 000 000
CO-ORDS N: 0 000 000
DESIGNED CORRIGAN
CHECKED
SITE CHECKED
RECOMMENDED

APPROVED
NAME R.C.BIRD
ELECTRICAL DESIGN MANAGER
DATE 28/03/00

Roads and Traffic Authority, N.S.W

CITY OF SYDNEY
TRAFFIC SIGNALS AT
INTERSECTION OF PITT STREET
AND PARK STREET
SYDNEY

CABLE INSTALLATION TCS No 0235

DESIGN OFFICE PARRAMATTA - SYDNEY TECHNICAL SERVICES
CADD FILE: VV0235_22C_INS.dgn
SCALE 5 0 (1:200) 5 10
ISSUE C
FILE 412.TS.288
SUPERSEDES SHEET/ISSUE 14D
REGN. 7000.412.VV.0235
SHEET 22

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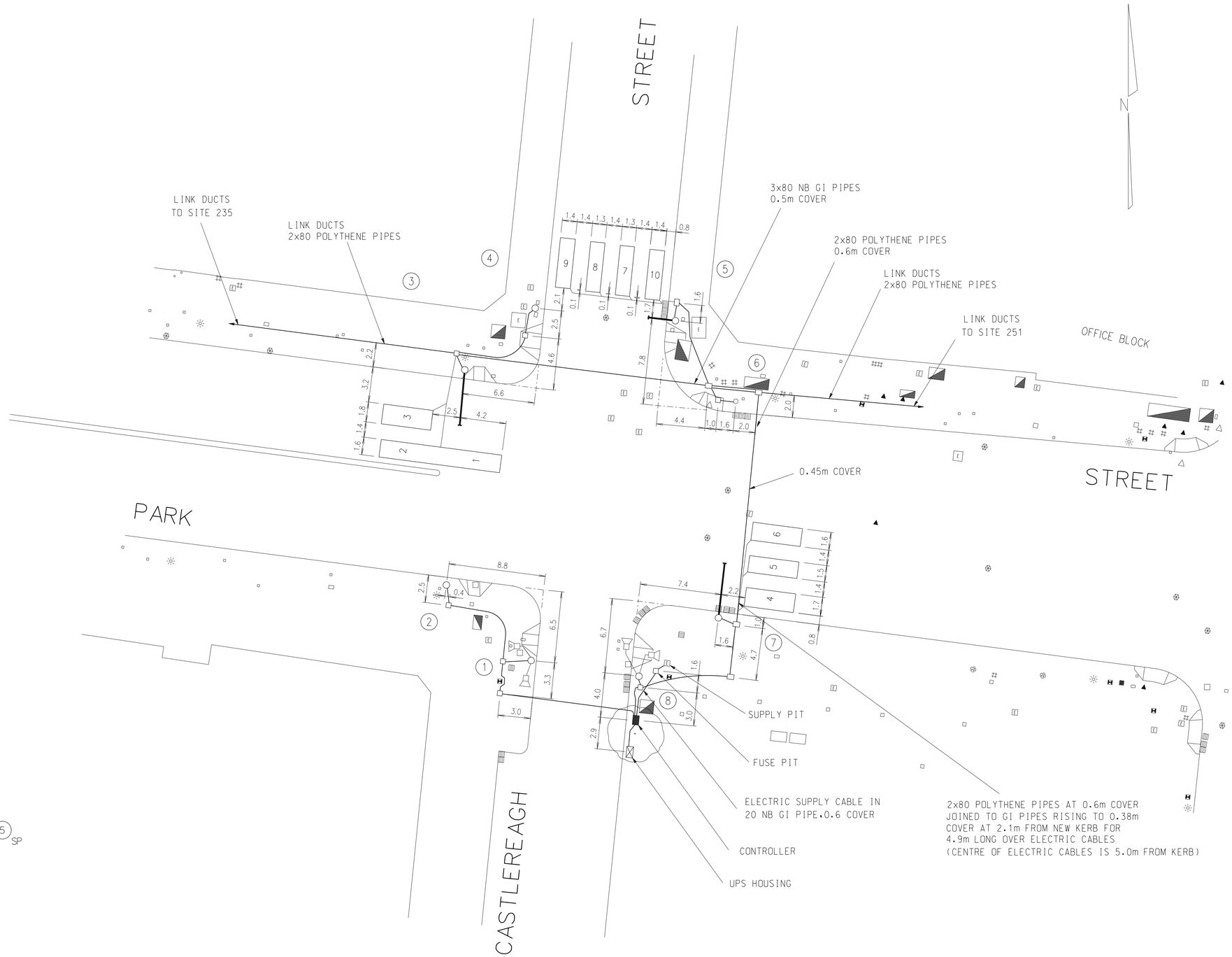
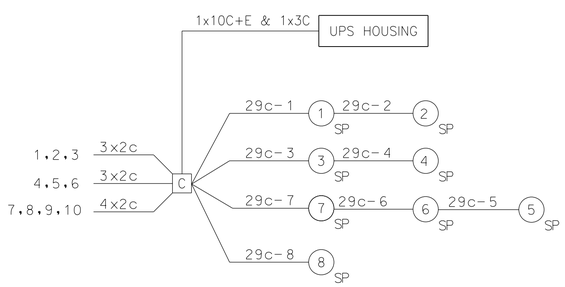
Transport Roads & Maritime Services
NSW GOVERNMENT

7000.412.VV.0250

NOTES

1. CABLE COVER: IN ROADWAYS 0.6m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x80 HD PVC OR 1x80 POLYTHENE UNLESS OTHERWISE STATED.
3. ALL ROADWAY CONDUITS ARE 1x80 POLYTHENE PIPE UNLESS OTHERWISE STATED.
4. ALL FOOTWAY PITS SHOWN THUS:-
   - □ 600mmx450mm
   - □ 450mmx450mm
5. THE SUPPLY IS CONNECTED TO THE CONTROLLER VIA AN UNINTERUPTABLE POWER SUPPLY (UPS) UNIT. REFER TO PLAN VE516-82 FOR CONNECTION.
6. CBD EVACUATION SPEAKERS MOUNTED ON POSTS 1 & 8.





CABLE LAYOUT

A ORIGINAL ISSUE
'B' ISSUE:- JJ SC1944 WAE
ADDED UPS CONTROLLER.
ADDED EVACUATION SPEAKERS.
RENUMBERED DETECTORS
JJ NM 17-08-2017

PUBLIC UTILITY LEGEND	
HYDRANT	□
STOP VALVE	▲
GAS VALVE	#
SEWER MANHOLE	Ⓜ
TELECOM PIT	◪
ELECT LIGHT POLE	☼
POWER POLE	○
STAY POLE	⊘
TELEPHONE BOX	T
TELECOM PILLAR	◕

REFERENCE PLANS	
SYMBOLS/ABBS.	VD003-6
STD POSIT	VD001-5
DET SCHED EXP	VD018-10
PRES. DETECT	VC005-17
SSG DIS. SEQ.	VD018-8
DESIGN LAYOUT	SHT 13
CABLE CHART	SHT 24
SURVEYOR: DEGOTARDI	
DATE : JULY 1998	

U.B.D. Ref. Map 3 J6
I.S.G. CO-ORDS E: 319 241 N: 1 250 430
DESIGNED CORRIGAN
CHECKED
SITE CHECKED
RECOMMENDED

APPROVED
R.C.BIRD
ELECTRICAL DESIGN MANAGER
28/03/00
DATE

ROADS AND MARITIME SERVICES

CITY OF SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT INTERSECTION OF
PARK STREET AND CASTLEREAGH STREET
SYDNEY

CABLE INSTALLATION TCS No 250

EXISTING ☒ PROPOSED ☐
CADD: VV0250_23B_INS.dgn
SCALE 5 0 (1:200) 5 10
ISSUE B
FILE SF2014/007501
SUPERSEDES SHEET/ISSUE 20/B
REG No. DS2014/000625
TCS No. 0250
SHEET 23

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TCS 0251

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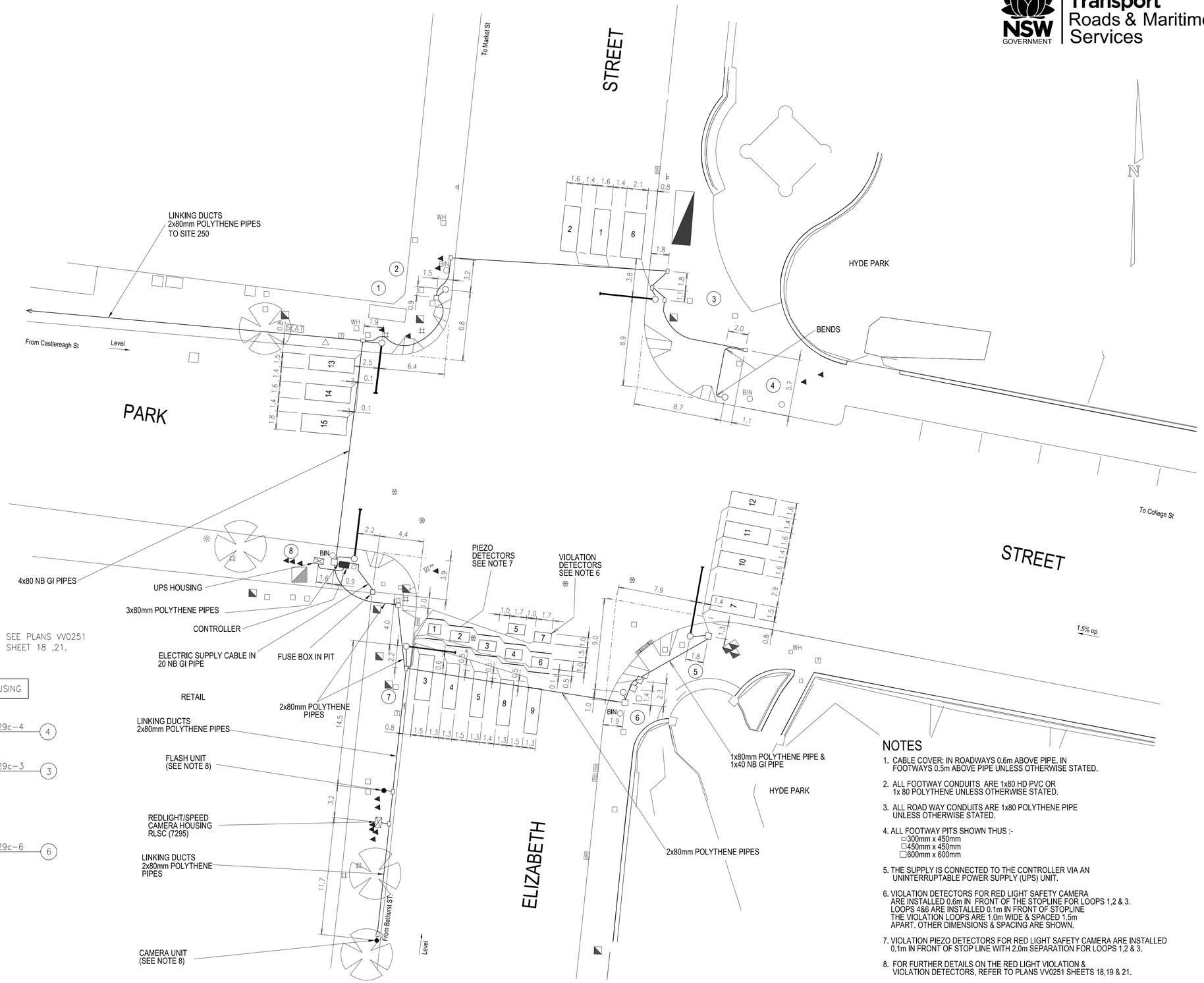
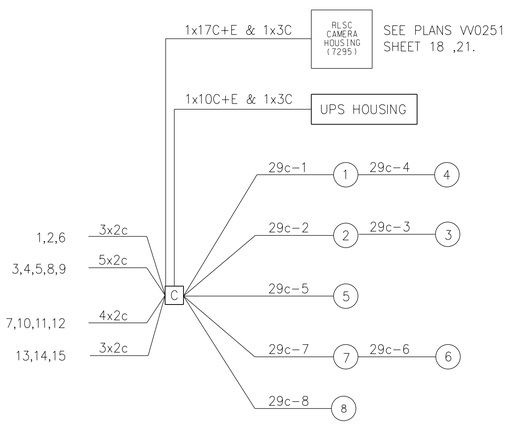
NSW GOVERNMENT | Transport Roads & Maritime Services





CABLE LAYOUT

NOTES

1. CABLE COVER: IN ROADWAYS 0.6m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x80 HD PVC OR 1x 80 POLYTHENE UNLESS OTHERWISE STATED.
3. ALL ROAD WAY CONDUITS ARE 1x80 POLYTHENE PIPE UNLESS OTHERWISE STATED.
4. ALL FOOTWAY PITS SHOWN THUS :-
   - □300mm x 450mm
   - □450mm x 450mm
   - □600mm x 600mm
5. THE SUPPLY IS CONNECTED TO THE CONTROLLER VIA AN UNINTERRUPTABLE POWER SUPPLY (UPS) UNIT.
6. VIOLATION DETECTORS FOR RED LIGHT SAFETY CAMERA ARE INSTALLED 0.6m IN FRONT OF THE STOPLINE FOR LOOPS 1,2 & 3. LOOPS 4&6 ARE INSTALLED 0.1m IN FRONT OF STOPLINE THE VIOLATION LOOPS ARE 1.0m WIDE & SPACED 1.5m APART. OTHER DIMENSIONS & SPACING ARE SHOWN.
7. VIOLATION PIEZO DETECTORS FOR RED LIGHT SAFETY CAMERA ARE INSTALLED 0.1m IN FRONT OF STOP LINE WITH 2.0m SEPARATION FOR LOOPS 1,2 & 3.
8. FOR FURTHER DETAILS ON THE RED LIGHT VIOLATION & VIOLATION DETECTORS, REFER TO PLANS VV0251 SHEETS 18,19 & 21.

A	ORIGINAL ISSUE	15/06/17
	JI SC 1953	
'B'	ISSUE WAE	19/06/17
	Red light camera added. M.M	
	S.H.	

PUBLIC UTILITY LEGEND	
HYDRANT	
STOP VALVE	
GAS VALVE	
SEWER MANHOLE	
TELECOM PIT	
ELECT LIGHT POLE	
POWER POLE	
STAY POLE	
TELEPHONE BOX	
TELECOM PILLAR	

REFERENCE PLANS	
SYMBOLS/ABBS.	VD003-6
STD POSIT	VD001-5
DET SCHED EXP	VD018-10
PRES. DETECT	VC005-17
SSG DIS. SEQ.	VD018-8
DESIGN LAYOUT	SHEET 19
CABLE CHART	SHEET 18
RLSC CHART	SHEET 21
SURVEYOR : RTA	
DATE :	

U.B.D.Ref Map 3 J6
M.S.G. CO-ORDS E: 319 320 N: 1 250 410
DESIGNED J. JAVILLONAR
CHECKED
SITE CHECKED
M. MAHINTHAN RECOMMENDED

APPROVED
Len Clay
ELECTRICAL DESIGN MANAGER
DATE 01-09-2016

ROADS AND MARITIME SERVICES

SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT INTERSECTION OF ELIZABETH STREET AND PARK STREET SYDNEY

CABLE INSTALLATION TCS No 0251

EXISTING ☒ PROPOSED ☐

CADD FILE: K:\Signals\TCS\...\VV0251_20B_INS.dgn

SCALE 5 0 (1:200) 5 10

ISSUE B

FILE SF2014/007502

SUPERSEDES SHEET/ISSUE 17/C

REG No. DS2014/000626

TCS No. 0251

SHEET 20

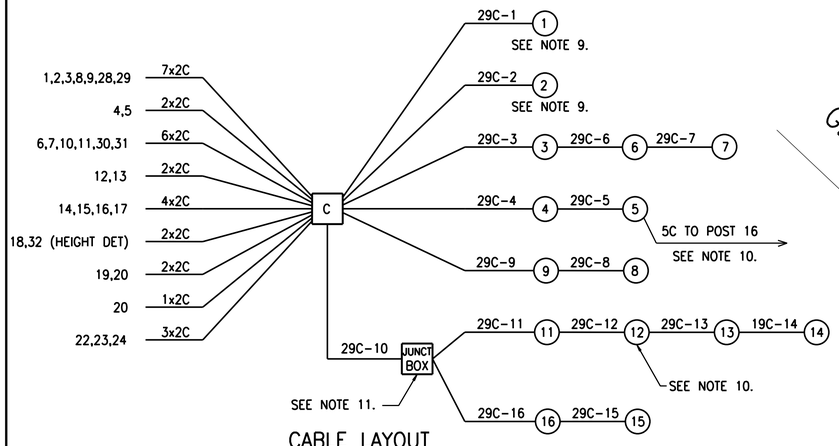
$DATE$ $TIME$ $FILE$

© COPYRIGHT ROADS AND TRAFFIC AUTHORITY

7000.412.VV.0264

DRAWN BY CADD
DO NOT AMEND MANUALLY

Transport Roads & Traffic Authority
NSW GOVERNMENT



CABLE LAYOUT

CABLE INSTALLATION

NOTES

1. COVER ABOVE CONDUITS IS 0.6m IN ROADWAYS & 0.5m IN FOOTWAYS UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
3. ALL ROADWAY CONDUITS ARE 2x80 NB GI OR POLYTHENE PIPES UNLESS OTHERWISE STATED.
4. IF COVER OVER PIPES IN ROADWAYS & FOOTPATHS IS LESS THAN SHOWN IN NOTE 1 STEEL PLATES ARE INSTALLED OVER PIPES UNLESS PIPES ARE ENCASED IN CONCRETE.
5. STEEL PLATES ARE GALVANISED :- 12mm x 300mm x 600mm
6. WHERE INSUFFICIENT DEPTH DOES NOT EXIST IN FOOTPATH FOR THE INSTALLATION OF A STANDARD POST BASE. IT IS INSTALLED AS PER PLAN VC002-45.
7. ALL FOOTWAY PITS SHOWN THUS:-
   □ 450x450mm ▭ 600x450mm □ 600x600mm
8. POSTS 14 & 15 ARE INSTALLED ON ADAPTER PLATES ON QVB CAR PARK DECK.
9. CBD EVACUATION SPEAKERS MOUNTED ON POSTS 1 & 6. VMS SIGN MOUNTED ON POST 2.
10. HEIGHT DETECTOR (DET 32) MOUNTED ON SIGNAL POST 16 AND REFLECTOR ON POST 12.
11. OLD CONTROLLER CONVERTED TO JUNCTION BOX WHICH IS FED FROM TCS-0264.

A ORIGINAL ISSUE
COMBINATION OF SITE 0264 AND 2651. OPTICAL HEIGHT DETECTORS ADDED TO POSTS TO 6 AND 10. POSTS RENUMBERED. CONTROLLER 2651 REMOVED.
'B' ISSUE:- W.A.E
POSTS RENUMBERED. AMENDED SIGNAL CABLE LAYOUT. NOTES REVISED. LC 22-10-2014
JJ

PUBLIC UTILITY LEGEND		REFERENCE PLANS	
HYDRANT	□	SYMBOLS/ABBS.	VD003-6
STOP VALVE	▲	STD POSIT	VD001-5
GAS VALVE	#	PRES. DETECT	VC005-17
SEWER MANHOLE	⊗	VEH GROUP SPEC	TS-TN-19
TELECOM PIT	◪	DETECT SPEC	TS-TN-20
ELECT LIGHT POLE	↺	PED GROUP SPEC	TS-TN-21
POWER POLE	○	DESIGN LAYOUT	SHEET 32
STAY POLE	⊘	CABLE CHART	SHEET 34
TELEPHONE BOX	T	SURVEYOR :	A.DEGIORGIO
TELECOM PILLAR	◕	DATE :	07/07/2007

U.B.D. Ref. Map 3 G6
I.S.G. CO-ORDS E: 319 034 N: 1 250 430
DESIGNED D. BAIGORRIA 03-08-2011
CHECKED I. HAYES 03-08-2011
SITE CHECKED
RECOMMENDED

APPROVED
ELECTRICAL DESIGN MANAGER
03-08-2011
DATE

ROADS AND MARITIME SERVICES

CITY OF SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT INTERSECTION OF GEORGE STREET, PARK STREET AND DRUITT STREET
SYDNEY
TCS No 0264

EXISTING ☒ PROPOSED □
CADD FILE: VV0264_33B_INS.dgn
SCALE (1:200)
ISSUE B
FILE 412 TS 171
SUPERSEDES SHEET/ISSUE 33A
REGN. 7000.412.VV.0264
SHEET 33

C COPYRIGHT ROADS AND TRAFFIC AUTHORITY OF NSW

7000.412.VV.2778

DRAWN BY CADD
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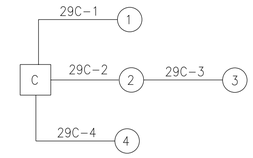
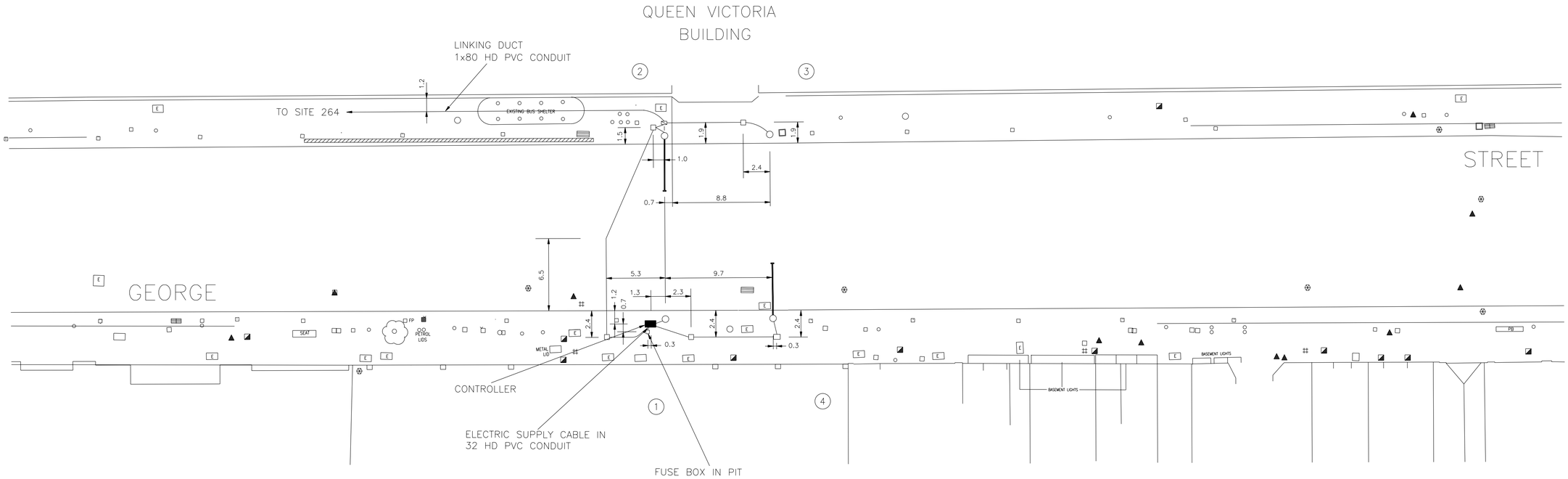
RTA



CABLE LAYOUT



NOTES

1. COVER ABOVE CONDUITS IS 0.6m IN ROADWAYS & 0.5m IN FOOTWAYS UNLESS OTHERWISE STATED.
2. ALL FOOTWAY CONDUITS ARE 1x80 HD PVC OR 1x80 POLYTHENE PIPE UNLESS OTHERWISE STATED.
3. ALL ROADWAY CONDUITS ARE 2x80 HD PVC.
4. ALL FOOTWAY PITS SHOWN THUS:–
   - □ 450mmx450mm
   - ▭ 600mmx450mm

A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND		REFERENCE PLANS	
HYDRANT	□	SYMBOLS/ABBS.	VD003-6
STOP VALVE	▲	STD POSIT	VD001-5
GAS VALVE	⌗	DET SCHED EXP	VD018-10
SEWER MANHOLE	⊛	PRES. DETECT	VC005-17
TELECOM PIT	◪	SSG DIS. SEQ.	VD018-8
ELECT LIGHT POLE	☾	DESIGN LAYOUT	SHT 6
POWER POLE	○	CABLE CHART	SHT 8
STAY POLE	⊘		
TELEPHONE BOX	T	SURVEYOR :SYDNEY CITY CCL	
TELECOM PILLAR	◕	DATE : 1997	

U.B.D. Ref. MAP3,G5
I.S.G. E: 320 860
CO-ORDS N: 1 245 080

DESIGNED CORRIGAN
CHECKED
SITE CHECKED
RECOMMENDED

APPROVED
R.C.BIRD
ELECTRICAL DESIGN MANAGER
10/07/00
DATE

Roads & Traffic Authority,N.S.W

CITY OF SYDNEY
TRAFFIC SIGNALS AT GEORGE STREET
BETWEEN
PARK STREET AND MARKET STREET
SYDNEY

CABLE INSTALLATION TCS No 2778

DESIGN OFFICE PARRAMATTA – SYDNEY TECHNICAL SERVICES
CADD DRAWING FILE: VV2778_7A_INS.dgn
SCALE 5 0 (1:200) 5 10
ISSUE A
FILE 412.TS.480
SUPERSEDES SHEET/ISSUE 4A
REGN. 7000.412.VV.2778
SHEET 7

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VV2778_7A_INS.dgn 5/12/2008 2:43:21 PM

SYDNEY METRO
L43 680 George St
Sydney
NSW 2000 Australia

smcswdbyd@transport.nsw.gov.au

Emergency (24hrs) 1800 019 989

Dear Sir / Madam,

Dial Before You Dig – Potential impact on tunnel assets

Thank you for your Dial Before You Dig enquiry. Sydney Metro has identified underground tunnel assets in the vicinity of the enquiry location. These assets may include, but are not limited to running tunnels, cross passages, cross over caverns and associated services.

Please be aware that damage to these assets could cause serious injury or death as well as major disruption to Sydney Metro rail infrastructure.

A subsurface property stratum has been registered with the Land and Property Information office which describes the space in both plan and reduced level within which the tunnel assets are located. A copy of the relevant stratum plan is attached. The plan is provided subject to the provisions set out below.

- The actual depth of existing tunnel assets may vary significantly from the location shown on the attached plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Any reliance placed on these plans by you is entirely at your risk. You must undertake your own investigations and enquiries to confirm the exact locations of underground assets.
- Sydney Metro is not responsible for any loss suffered by you or any other party (including indirect or consequential loss) in connection with the provision of the plan, however that loss may arise (including losses arising as a result of negligence by Sydney Metro and/or its employees, officers, consultants and contractors).
- Whilst Sydney Metro has taken all reasonable steps to ensure that the information contained in the plan is as accurate as possible, Sydney Metro gives no guarantee, warranty or undertaking as to the accuracy, currency, adequacy, suitability or completeness of the plan and does not assume any duty of care to you or any third party nor accept any liability for inaccuracies in the information shown on these plans.
- Sydney Metro's plans are frequently updated. The attached plans are valid for 6 months from date of issue.

You must review the attached plan(s) to ensure that any proposed works by you are not in conflict with Sydney Metro's assets.

The potential to impact the tunnels will depend upon the nature of works proposed. You must contact Sydney Metro prior to carrying out any works if any of the following apply:

1. your proposed excavation is greater than 2 metres below existing ground level (this includes trenching, bore holes, piles and similar ground penetrations) and is located above or within the property stratum; **or**
2. significant additional loads are to be placed over the stratum area whether temporarily or permanently; **or**
3. significant vibration (i.e. driving piles) is to occur over or in the vicinity of the stratum.

In the event that the proposed works trigger any one of the above conditions:

- do not commence works;
- contact Sydney Metro via email smcswdbyd@transport.nsw.gov.au;
- provide sufficient information to Sydney Metro to enable accurate review of the proposed work; and
- await positive confirmation from Sydney Metro that the works are allowed to proceed.

Any further information you may require can be requested during this contact.

You must:

- provide Sydney Metro with information about the proposed works with sufficient time to allow for adjustments to meet Sydney Metro's requirements;
- not modify the extent of work in the vicinity of the tunnels without prior notification to Sydney Metro;
- exercise due care and take all reasonable precautions in the vicinity where underground assets are indicated to avoid destroying, damaging or interfering with Sydney Metro assets and infrastructure;
- not relocate or alter any Sydney Metro tunnel assets or infrastructure under any circumstance;
- immediately notify Sydney Metro of any damage or threat of damage to its infrastructure that occurs as a result of your work, by telephoning the emergency contact number 1800 019 989; and
- ensure information provided in this response is printed and remains available on-site at all times throughout your construction phase.

Due to the inherent dangers associated with excavation in the vicinity of underground tunnel assets, precautions should be taken in the undertaking of any excavation or underground works, including, but not limited to the following:

- all personnel must be properly briefed, particularly those associated with the use of earthmoving equipment, trenching, boring and pneumatic equipment; and
- all excavations by you must be undertaken in accordance with all relevant laws and regulations including, in accordance with but not limited to, Work Cover NSW "Work near underground assets: Guide" and "Work Cover NSW "Excavation work: Code of practice".

You will be held responsible for any damage to any of Sydney Metro's assets or infrastructure or other loss caused (including consequential loss) as a result of excavation or earthworks by you or on your behalf.

The provision of the attached drawing/s does not provide approval for your proposed works or diminish your obligations under NSW legislation. This includes the requirement to contact Sydney Metro prior to any work commencing which could affect our assets to discuss necessary safety and design aspects as detailed above.

Yours sincerely,

Sydney Metro

NOTE 1	LOTS 140 & 141 ARE SUB-STRATUM LOTS LIMITED IN HEIGHT AND DEPTH BY STEPPED HORIZONTAL PLANES AS SHOWN ON SECTIONS ON SHEET 8 AND TABLE ON SHEET 10. NO LOT BOUNDARIES HAVE BEEN MARKED.
NOTE 2	LOT 142 IS A SUB-STRATUM LOT LIMITED IN HEIGHT AND DEPTH BY HORIZONTAL PLANES AS SHOWN ON SECTIONS ON SHEET 8 AND TABLE ON SHEET 10. NO LOT BOUNDARIES HAVE BEEN MARKED.
NOTE 3	THE ACQUISITION OF LAND IN A STRATA SCHEME AFFECTS COMMON PROPERTY ONLY.

PM 50830-PM 40134	192°21'22" – 781.631 MGA GND "X"-"Y" 192°21'22" – 781.637 SURVEY
PM 40134-PM 40208	0°46'10" – 401.328 MGA GRND 0°46'16" – 401.323 SURVEY
PM 40208-PM 147475	2°53'28" – 223.92 MGA GRND 2°53'26" – 223.923 SURVEY
PM 147475-PM 50830	47°22'17" – 204.651 MGA GRND 47°22'06" – 204.651 SURVEY
PM 50830-PM 147483	123°45'46" – 63.352 MGA GRND 123°45'57" – 63.343 SURVEY
PM 14783-PM 40149	177°20'25" – 134.875 MGA GRND 177°20'05" – 134.873 SURVEY
PM 40149-PM 40134	200°51'33" – 635.221 MGA GRND 200°51'34" – 635.233 SURVEY
PM 40149-PM 147019	266°07'40" – 84.32 MGA GRND 266°07'26" – 84.318 SURVEY
PM 147019-PM 147475	286°27'24" – 130.727 MGA GRND 286°27'12" – 130.725 SURVEY
PM 40208- PM 147019	36°13'07" – 231.296 MGA GRND 36°13'01" – 231.303 SURVEY

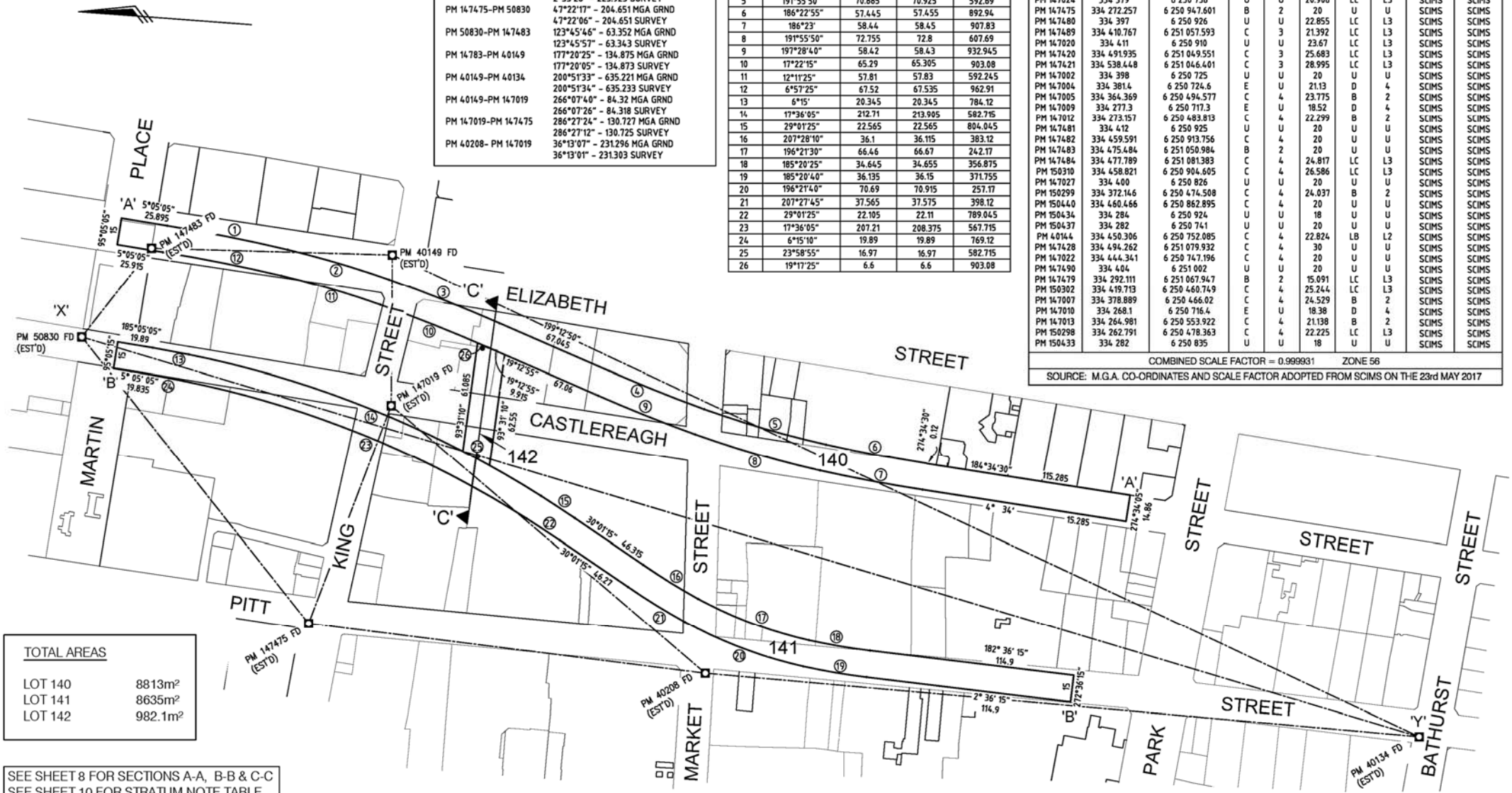
No.	BEARING	DISTANCE	ARC	RADIUS
1	6°57'30"	68.61	68.625	977.91
2	12°11'25"	59.37	59.395	607.245
3	17°22'10"	66.415	66.43	918.08
4	197°28'45"	57.44	57.45	917.945
5	191°55'50"	70.885	70.925	592.69
6	186°22'55"	57.445	57.455	892.94
7	186°23'	58.44	58.45	907.83
8	191°55'50"	72.755	72.8	607.69
9	197°28'40"	58.42	58.43	932.945
10	17°22'15"	65.29	65.305	903.08
11	12°11'25"	57.81	57.83	592.245
12	6°57'25"	67.52	67.535	962.91
13	6°15'	20.345	20.345	784.12
14	17°36'05"	212.71	213.905	582.715
15	29°01'25"	22.565	22.565	804.045
16	207°28'10"	36.1	36.115	383.12
17	196°21'30"	66.46	66.67	242.17
18	185°20'25"	34.645	34.655	356.875
19	185°20'40"	36.135	36.15	371.755
20	196°21'40"	70.69	70.915	257.17
21	207°27'45"	37.565	37.575	398.12
22	29°01'25"	22.105	22.11	789.045
23	17°36'05"	207.21	208.375	567.715
24	6°15'10"	19.89	19.89	769.12
25	23°58'55"	16.97	16.97	582.715
26	19°17'25"	6.6	6.6	903.08

SURVEYING AND SPATIAL INFORMATION REGULATION 2012 : CLAUSE 35(1)(b) & 61(2) AND 62

MARK	MGA EASTING	MGA NORTHING	CLASS	ORDER	AHD	CLASS	ORDER	METHOD	ORIGIN
PM 40134	334 255.574	6 250 322.717	B	2	25	LB	L2	SCIMS	SCIMS
PM 40149	334 481.742	6 250 916.264	B	2	24	U	U	SCIMS	SCIMS
PM 40208	334 260.964	6 250 723.981	B	2	20	U	U	SCIMS	SCIMS
PM 40218	334 465.365	6 250 917.41	C	4	20	U	U	SCIMS	SCIMS
PM 50830	334 422.82	6 251 086.19	B	2	20.904	LC	L3	SCIMS	SCIMS
PM 50831	334 420.07	6 251 055.829	C	3	20	U	U	SCIMS	SCIMS
PM 52519	334 413.344	6 251 086.139	C	3	20.74	LB	L2	SCIMS	SCIMS
PM 58405	334 310.631	6 250 937.002	C	4	20	U	U	SCIMS	SCIMS
PM 147025	334 285	6 250 733	U	U	20	U	U	SCIMS	SCIMS
PM 147428	334 494.262	6 251 079.932	C	4	30	U	U	SCIMS	SCIMS
PM 147018	334 290.283	6 250 930.559	C	4	20	U	U	SCIMS	SCIMS
PM 147019	334 397.62	6 250 910.57	B	2	20	U	U	SCIMS	SCIMS
PM 147023	334 398.4	6 250 745	E	U	20	U	U	SCIMS	SCIMS
PM 147024	334 379	6 250 738	U	U	20.906	LC	L3	SCIMS	SCIMS
PM 147475	334 272.257	6 250 947.601	B	2	20	U	U	SCIMS	SCIMS
PM 147480	334 397	6 250 926	U	U	22.855	LC	L3	SCIMS	SCIMS
PM 147489	334 410.767	6 251 057.593	C	3	21.392	LC	L3	SCIMS	SCIMS
PM 147020	334 411	6 250 910	U	U	23.67	LC	L3	SCIMS	SCIMS
PM 147420	334 491.935	6 251 049.551	C	3	25.683	LC	L3	SCIMS	SCIMS
PM 147421	334 538.448	6 251 046.401	C	3	28.995	LC	L3	SCIMS	SCIMS
PM 147002	334 398	6 250 725	U	U	20	U	U	SCIMS	SCIMS
PM 147004	334 381.4	6 250 724.6	E	U	21.13	D	4	SCIMS	SCIMS
PM 147005	334 364.369	6 250 494.577	C	4	23.775	B	2	SCIMS	SCIMS
PM 147009	334 277.3	6 250 717.3	E	U	18.52	D	4	SCIMS	SCIMS
PM 147012	334 273.157	6 250 483.813	C	4	22.299	B	2	SCIMS	SCIMS
PM 147481	334 412	6 250 925	U	U	20	U	U	SCIMS	SCIMS
PM 147482	334 459.591	6 250 913.756	C	4	20	U	U	SCIMS	SCIMS
PM 147483	334 475.484	6 251 050.984	B	2	20	U	U	SCIMS	SCIMS
PM 147484	334 477.789	6 251 081.383	C	4	24.817	LC	L3	SCIMS	SCIMS
PM 150310	334 458.821	6 250 904.605	C	4	26.586	LC	L3	SCIMS	SCIMS
PM 147027	334 400	6 250 826	U	U	20	U	U	SCIMS	SCIMS
PM 150299	334 372.146	6 250 474.508	C	4	24.037	B	2	SCIMS	SCIMS
PM 150440	334 460.466	6 250 862.895	C	4	20	U	U	SCIMS	SCIMS
PM 150434	334 284	6 250 924	U	U	18	U	U	SCIMS	SCIMS
PM 150437	334 282	6 250 741	U	U	20	U	U	SCIMS	SCIMS
PM 40144	334 450.306	6 250 752.085	C	4	22.824	LB	L2	SCIMS	SCIMS
PM 147428	334 494.262	6 251 079.932	C	4	30	U	U	SCIMS	SCIMS
PM 147022	334 444.341	6 250 747.196	C	4	20	U	U	SCIMS	SCIMS
PM 147490	334 404	6 251 002	U	U	20	U	U	SCIMS	SCIMS
PM 147479	334 292.111	6 251 067.947	B	2	15.091	LC	L3	SCIMS	SCIMS
PM 150302	334 419.713	6 250 460.749	C	4	25.244	LC	L3	SCIMS	SCIMS
PM 147007	334 378.889	6 250 466.02	C	4	24.529	B	2	SCIMS	SCIMS
PM 147010	334 268.1	6 250 716.4	E	U	18.38	D	4	SCIMS	SCIMS
PM 147013	334 264.981	6 250 553.922	C	4	21.138	B	2	SCIMS	SCIMS
PM 150298	334 262.791	6 250 478.363	C	4	22.225	LC	L3	SCIMS	SCIMS
PM 150433	334 282	6 250 835	U	U	18	U	U	SCIMS	SCIMS

COMBINED SCALE FACTOR = 0.999931 ZONE 56

SOURCE: M.G.A. CO-ORDINATES AND SCALE FACTOR ADOPTED FROM SCIMS ON THE 23rd MAY 2017



TOTAL AREAS	
LOT 140	8813m²
LOT 141	8635m²
LOT 142	982.1m²

SEE SHEET 8 FOR SECTIONS A-A, B-B & C-C
SEE SHEET 10 FOR STRATUM NOTE TABLE

IT IS INTENDED TO ACQUIRE LOTS 140-142 INCLUSIVE

Surveyor: SANDRA MARIE HOFFMANN Date of Survey: 29.05.2017 Surveyor's Ref: PR124856-DP14 2017M7100 (792 & 799) EXEMPTION No. 16/070-072	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: —— Lengths are in metres. Reduction Ratio 1: 1500	Registered: 19.3.2018	DP1231660

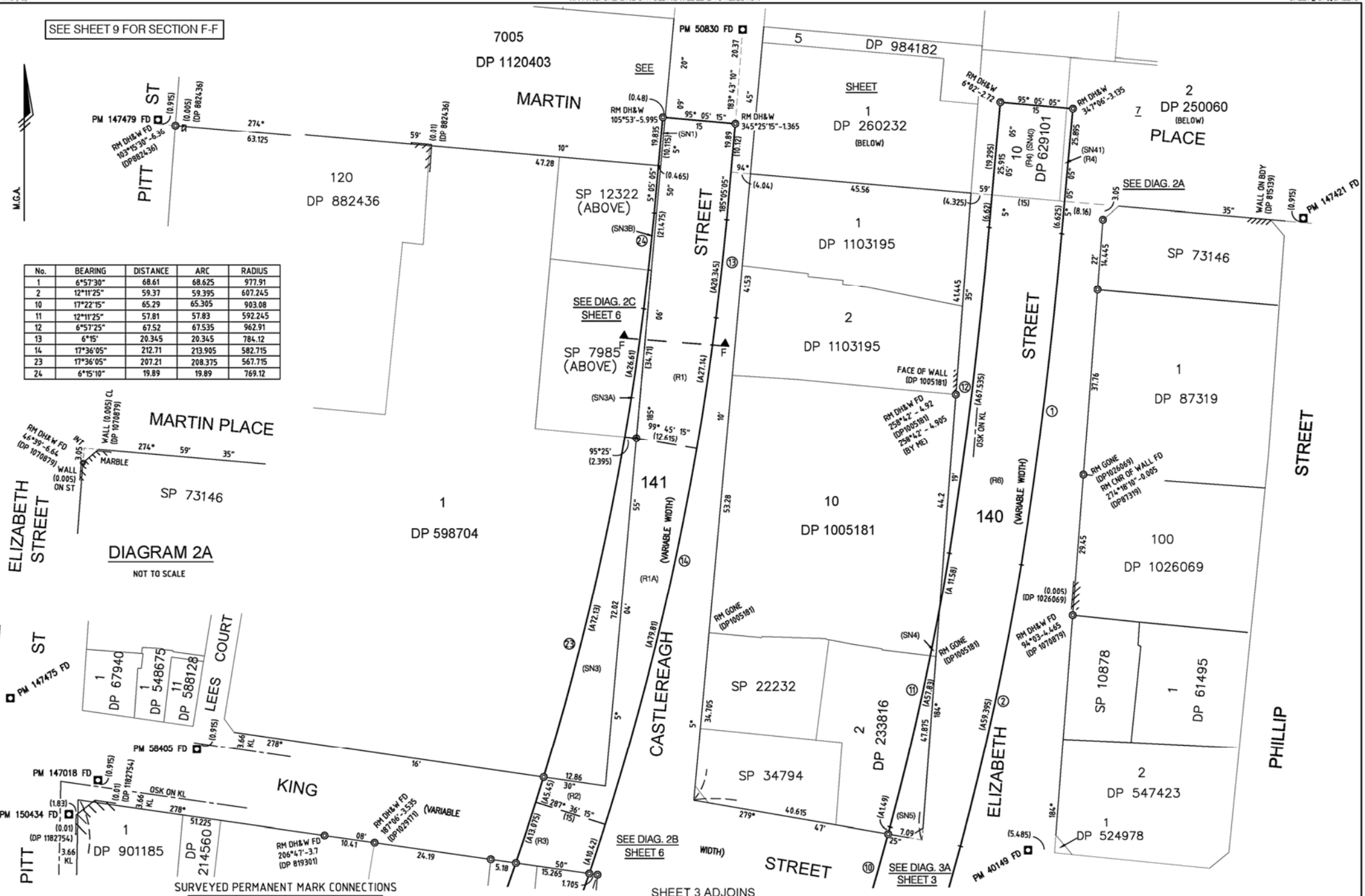
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:1 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:2 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

SEE SHEET 9 FOR SECTION F-F



No.	BEARING	DISTANCE	ARC	RADIUS
1	6°57'30"	68.61	68.625	977.91
2	12°11'25"	59.37	59.395	607.245
10	17°22'15"	65.29	65.305	903.08
11	12°11'25"	57.81	57.83	592.245
12	6°57'25"	67.52	67.535	962.91
13	6°15'	20.345	20.345	784.12
14	17°36'05"	212.71	213.905	582.715
23	17°36'05"	207.21	208.375	567.715
24	6°15'10"	19.89	19.89	769.12

SURVEYED PERMANENT MARK CONNECTIONS

FROM	TO	BEARING	DISTANCE
PM40149	PM147421	23°32'25"	141.963
PM147490	PM147480	183°42'	75.912
PM58405	PM147480	97°40'55"	88.209
PM58405	PM147475	285°26'	39.805
PM147475	PM150434	153°21'05"	26.889
PM147018	PM150434	220°29'05"	9.197
PM147018	PM147019	100°32'55"	109.186

Surveyor: SANDRA MARIE HOFFMANN
Date of Survey: 29.05.2017
Surveyor's Ref: PR124856-DP14
2017M7100 (792 & 799)
EXEMPTION No. 16/070-072

PLAN OF
ACQUISITION FOR RAILWAY PURPOSES

L.G.A.: SYDNEY
Locality: SYDNEY
Subdivision No: ——
Lengths are in metres. Reduction Ratio 1: 500

Registered: 19.3.2018

DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

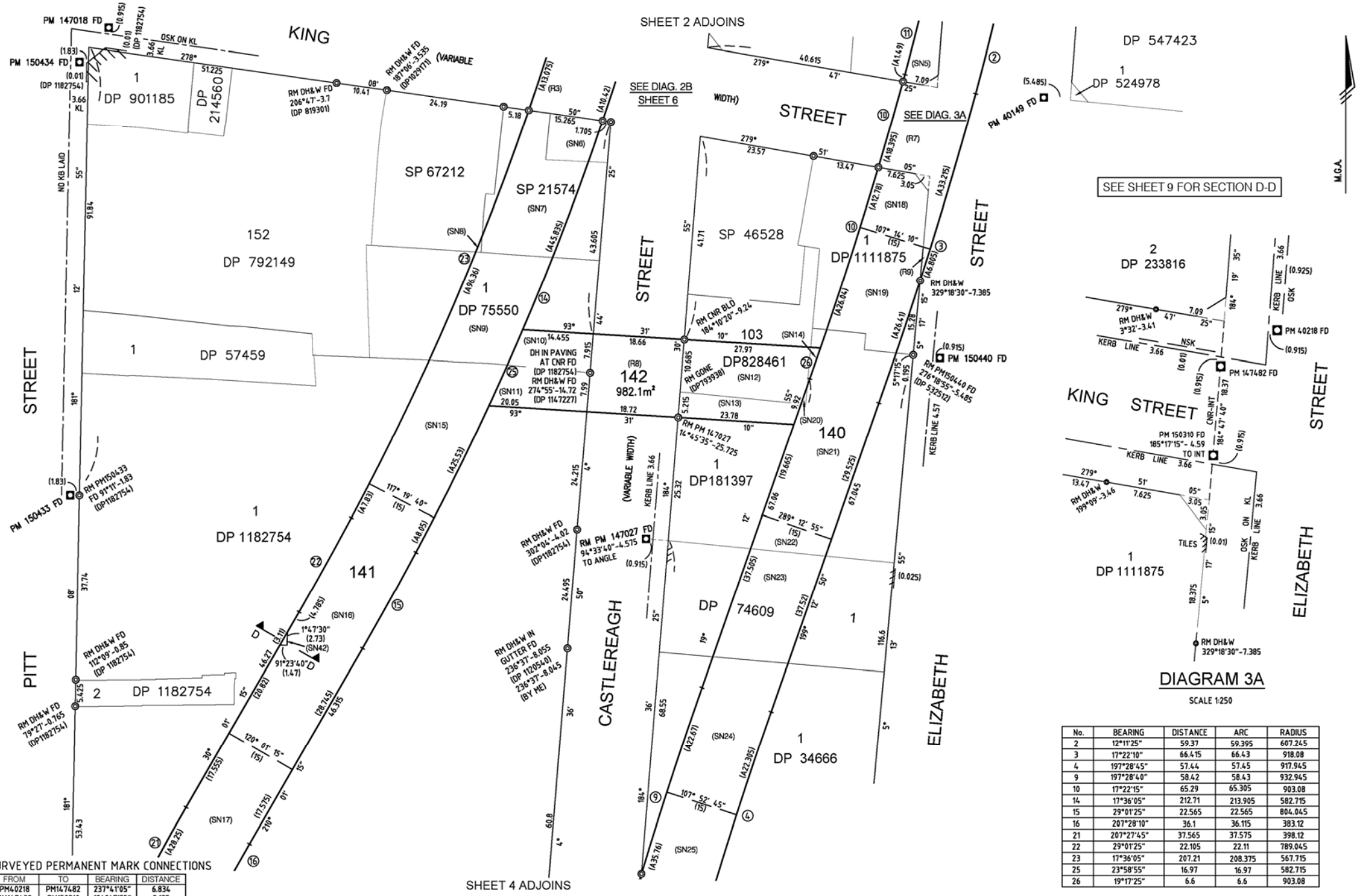


DIAGRAM 3A

SCALE 1:250

No.	BEARING	DISTANCE	ARC	RADIUS
2	12°11'25"	59.37	59.395	607.245
3	17°22'10"	66.415	66.43	918.08
4	197°28'45"	57.44	57.45	917.945
9	197°28'40"	58.42	58.43	932.945
10	17°22'15"	65.29	65.305	903.08
14	17°36'05"	212.71	213.905	582.715
15	29°01'25"	22.565	22.565	804.045
16	207°28'10"	36.1	36.115	383.12
21	207°27'45"	37.565	37.575	398.12
22	29°01'25"	22.105	22.11	789.045
23	17°36'05"	207.21	208.375	567.715
25	23°58'55"	16.97	16.97	582.715
26	19°17'25"	6.6	6.6	903.08

SURVEYED PERMANENT MARK CONNECTIONS

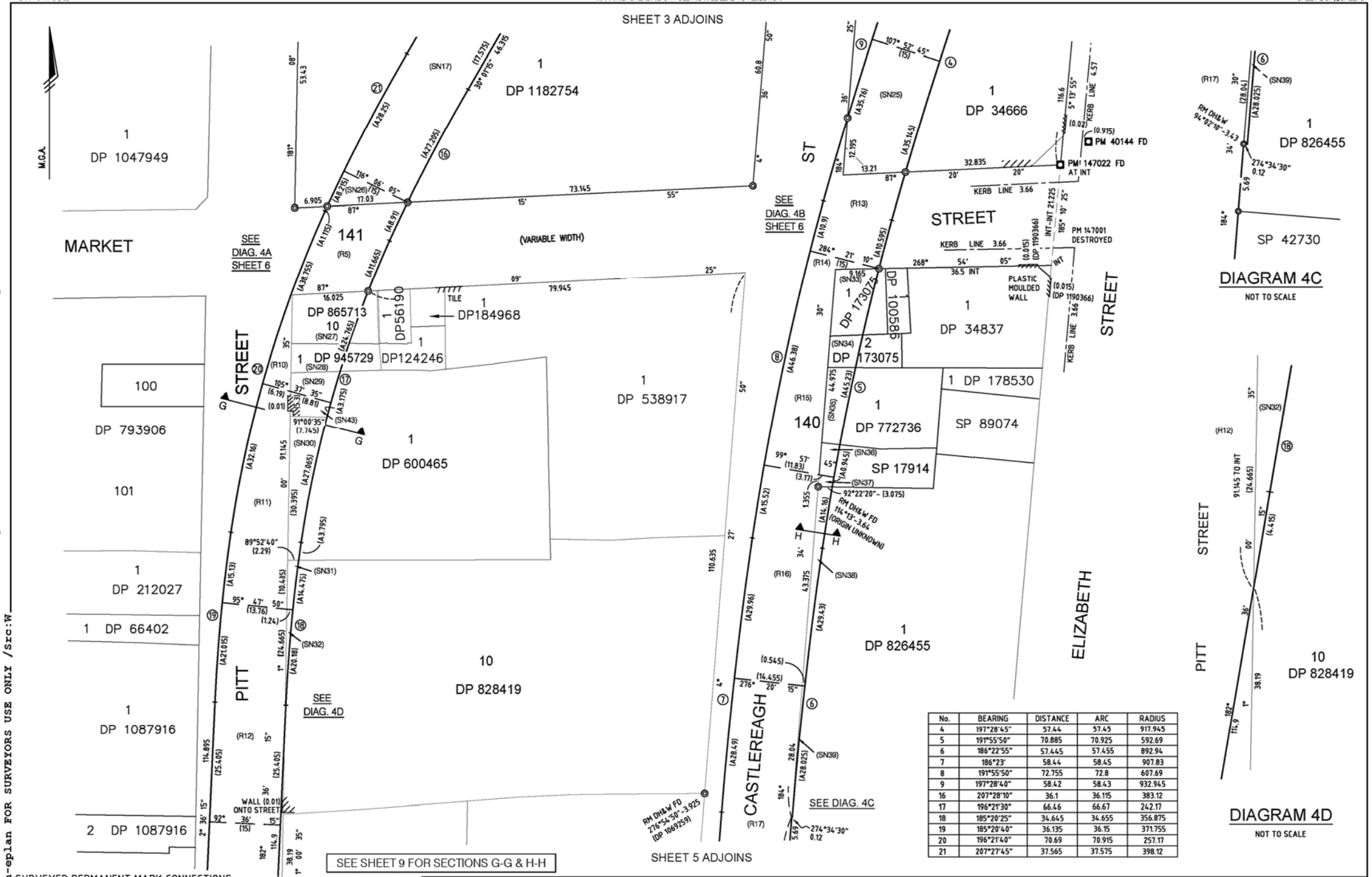
FROM	TO	BEARING	DISTANCE
PM40218	PM147482	237°41'05"	6.834
PM147482	PM150310	184°47'35"	9.185
PM150310	PM150440	177°44'15"	41.751
PM147027	PM147020	6°22'	84.982
PM150433	PM150434	1°12'55"	88.841
PM150433	PM150437	180°12'15"	94.034
PM147027	PM147023	181°21'50"	80.87
PM40149	PM40218	273°59'05"	16.417
PM40218	PM147481	274°50'05"	53.043

Surveyor: SANDRA MARIE HOFFMANN	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY	Registered: 19.3.2018
Date of Survey: 29.05.2017		Locality: SYDNEY	DP1231660
Surveyor's Ref: PR124856-DP14 2017M7100 (792 & 799) EXEMPTION No. 16/070-072		Subdivision No: ——	
		Lengths are in metres. Reduction Ratio 1: 500	

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:3 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W



No.	BEARING	DISTANCE	ARC	RADIUS
4	197°28'45"	57.44	57.45	917.945
5	191°55'50"	70.885	70.925	592.69
6	186°22'55"	57.445	57.455	892.94
7	186°23'	58.44	58.45	907.83
8	191°55'50"	72.755	72.8	607.69
9	197°28'40"	58.42	58.43	932.945
16	207°28'10"	36.1	36.115	383.12
17	196°21'30"	66.46	66.67	242.17
18	185°20'25"	34.645	34.655	356.875
19	185°20'40"	36.135	36.15	371.755
20	196°21'40"	70.69	70.915	257.17
21	207°27'45"	37.565	37.575	398.12

SURVEYED PERMANENT MARK CONNECTIONS

FROM	TO	BEARING	DISTANCE
PM147009	PM147013	184°18'05"	163.83
PM147023	PM147022	87°20'20"	46.045
PM147022	PM40144	50°37'40"	7.709
PM147004	PM147005	184°14'15"	230.703
PM40144	PM150302	185°59'55"	292.964

Surveyor: SANDRA MARIE HOFFMANN
Date of Survey: 29.05.2017
Surveyor's Ref: PR124856-DP14
2017M7100 (792 & 799)
EXEMPTION No. 16/070-072

PLAN OF
ACQUISITION FOR RAILWAY PURPOSES

L.G.A.: SYDNEY
Locality: SYDNEY
Subdivision No: ——
Lengths are in metres. Reduction Ratio 1: 500

Registered: 19.3.2018

DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:4 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:5 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

SHEET 4 ADJOINS

M.G.A.

SEE SHEET 9 FOR SECTION E-E

SURVEYED PERMANENT MARK CONNECTIONS

FROM	TO	BEARING	DISTANCE
PM147005	PM150299	158°48'40"	21.527
PM150299	PM147007	141°32'20"	10.841
PM147007	PM150302	97°21'40"	41.16
PM147012	PM150298	242°13'40"	11.704
PM150298	PM147013	1°39'15"	75.6
PM147012	PM150299	95°22'10"	99.439



DIAGRAM 5A

NOT TO SCALE

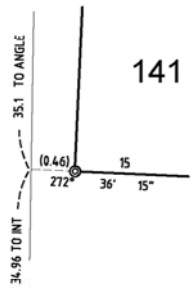
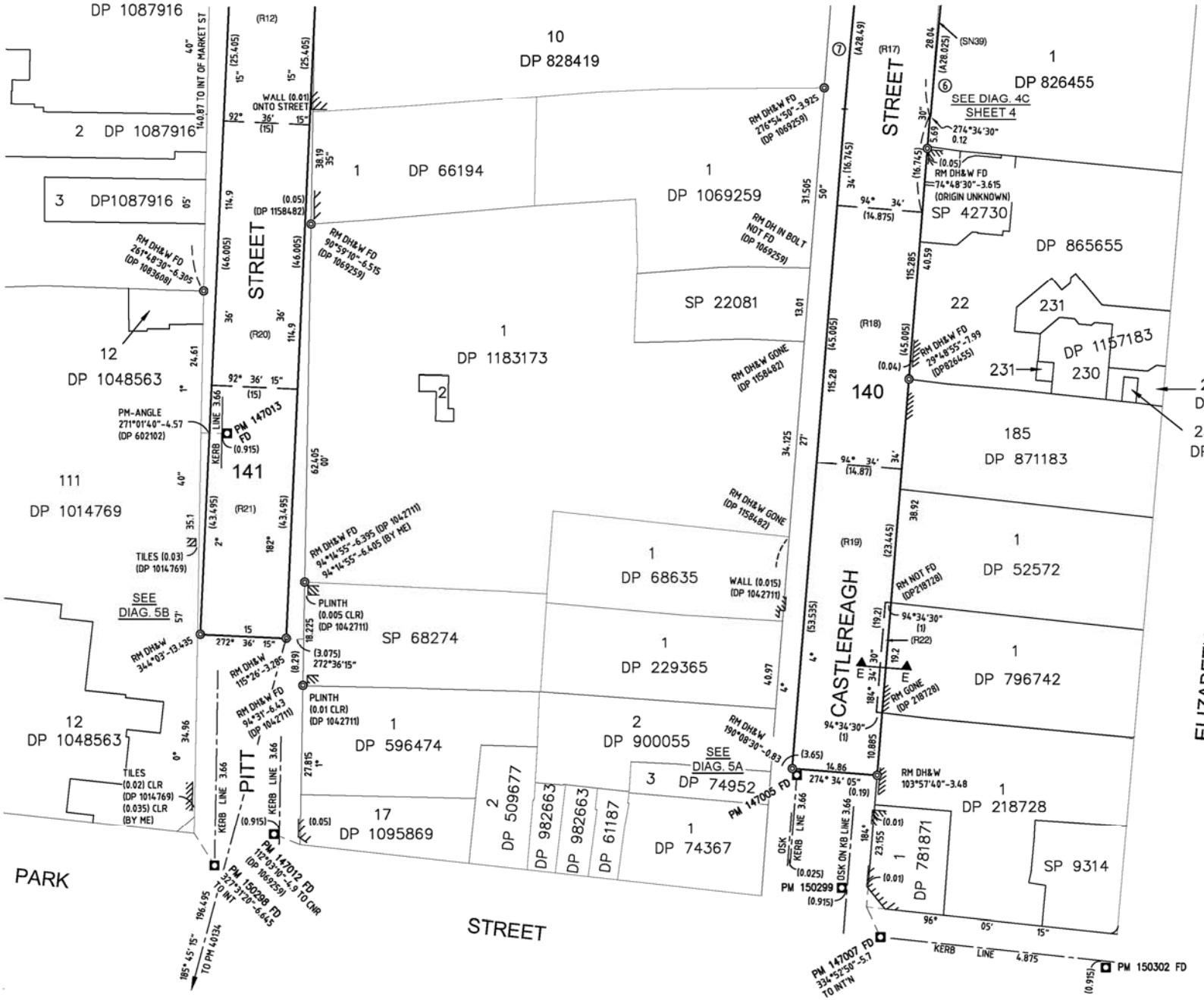


DIAGRAM 5B

NOT TO SCALE

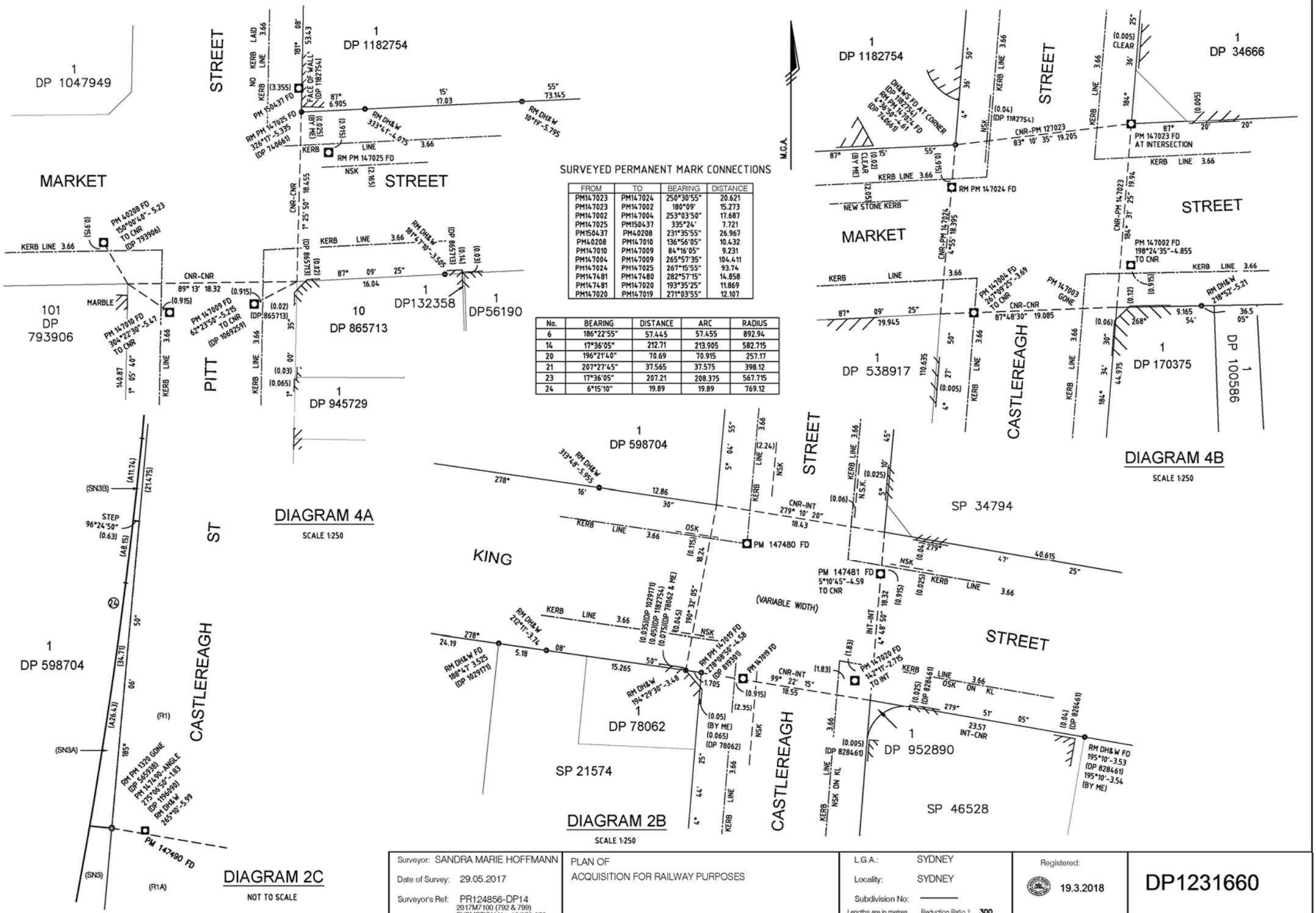


Surveyor: SANDRA MARIE HOFFMANN Date of Survey: 29.05.2017 Surveyor's Ref: PR124856-DP14 2017M7100 (792 & 799) EXEMPTION No. 16/070-072	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: —— Lengths are in metres. Reduction Ratio 1: 500	Registered: 19.3.2018	DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:6 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W



Surveyor: SANDRA MARIE HOFFMANN
Date of Survey: 29.05.2017
Surveyor's Ref: PR124856-DP14
2017M7100 (792 & 799)
EXEMPTION No. 16/070-072

PLAN OF
ACQUISITION FOR RAILWAY PURPOSES

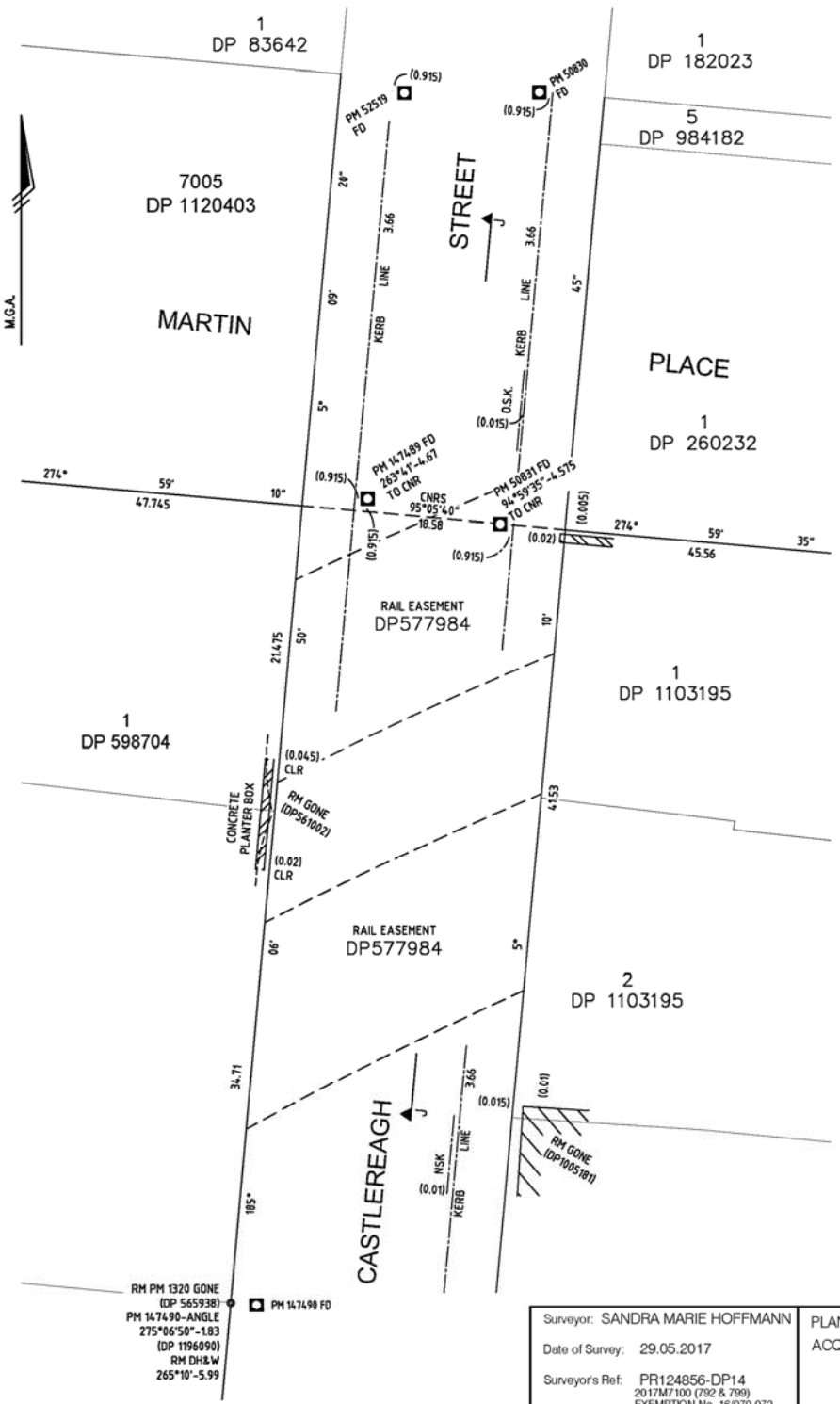
L.G.A.: SYDNEY
Locality: SYDNEY
Subdivision No: ——
Lengths are in metres. Reduction Ratio 1: 300

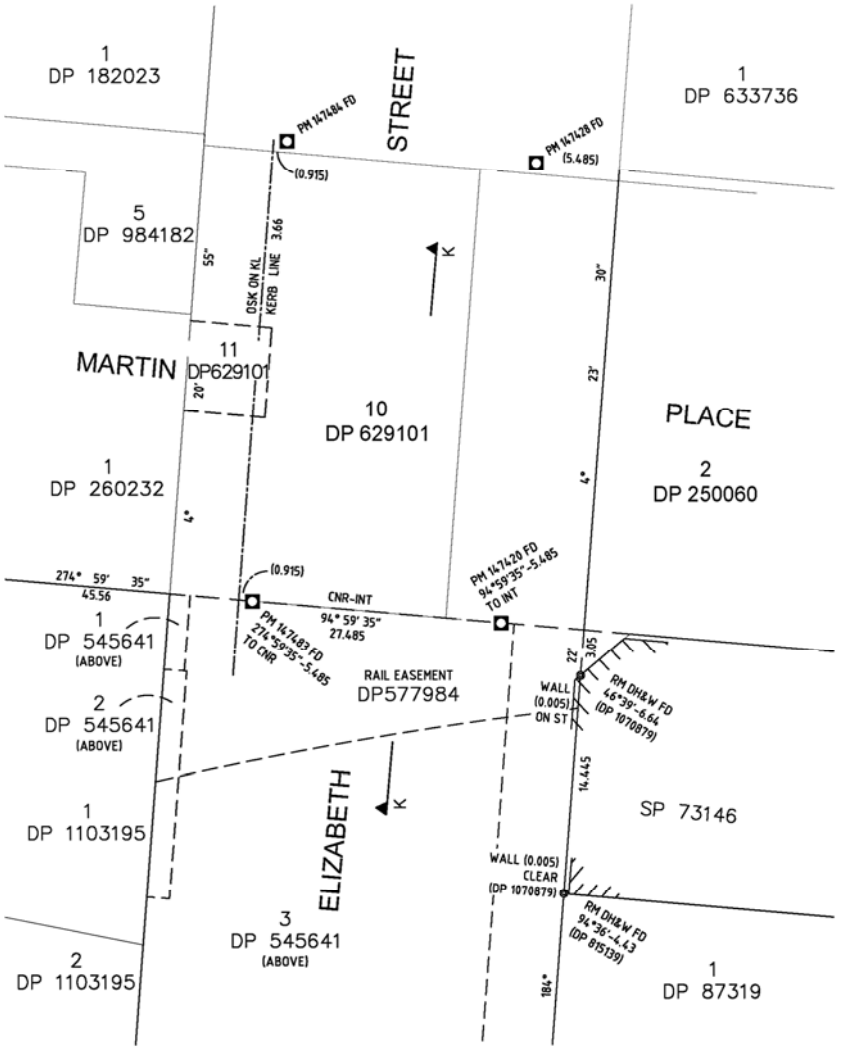
Registered: 19.3.2018

DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)





SURVEYED PERMANENT MARK CONNECTIONS

FROM	TO	BEARING	DISTANCE
PM147483	PM50831	274°59'50"	55.623
PM50831	PM147489	280°43'25"	9.469
PM147489	PM147490	187°52'	57.176
PM147489	PM52519	5°09'20"	28.666
PM52519	PM50830	89°42'15"	9.481
PM50830	PM147484	95°00'05"	55.18
PM147484	PM147428	95°01'15"	16.536
PM147428	PM147420	184°23'30"	30.47
PM147420	PM147483	274°58'40"	16.513
PM147420	PM147421	93°52'05"	46.625
PM147479	PM147489	94°59'10"	119.112
PM40144	PM150440	5°13'45"	111.281

SEE SHEET 9 FOR SECTIONS J-J & K-K

Surveyor: SANDRA MARIE HOFFMANN Date of Survey: 29.05.2017 Surveyor's Ref: PR124856-DP14 2017M7100 (792 & 799) EXEMPTION No. 16/070-072	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: —— Lengths are in metres. Reduction Ratio 1: 250	Registered: 19.3.2018	DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

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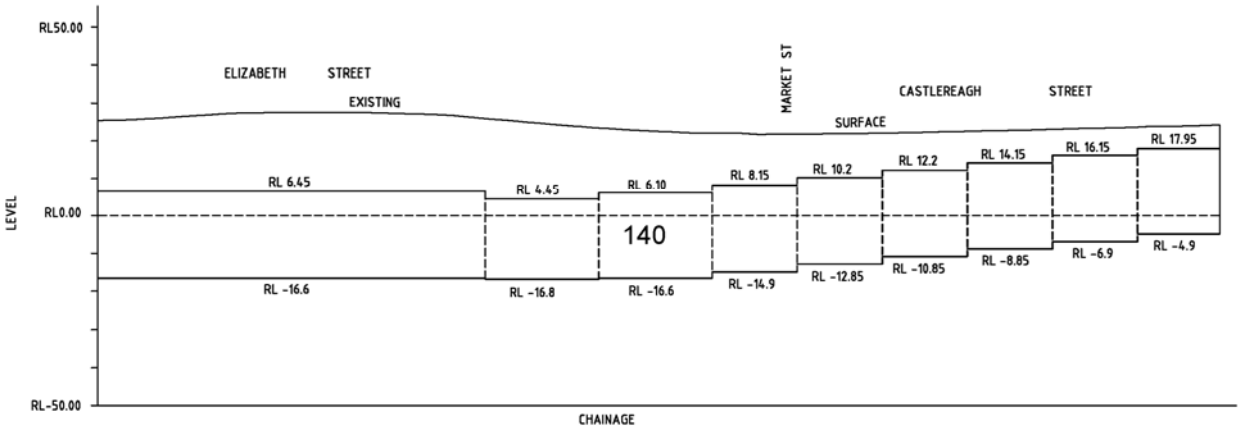
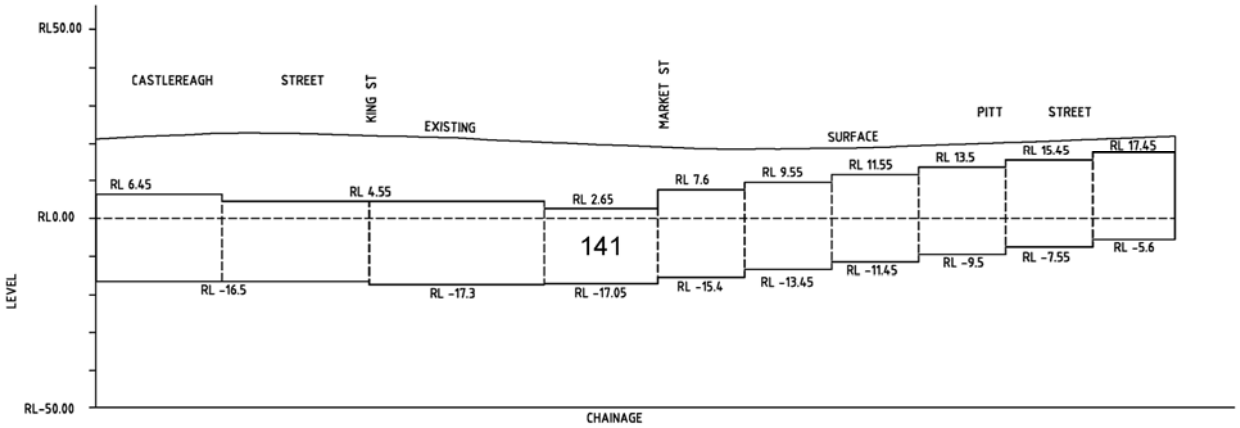
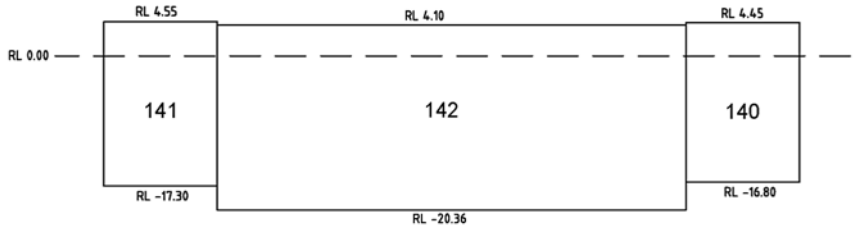
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W



LONGITUDINAL SECTION ' A'-'A'



LONGITUDINAL SECTION 'B'-'B'



SECTION 'C'-'C'

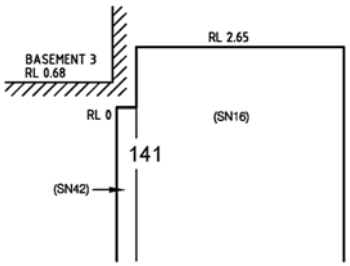
SCALE 1:500

Surveyor: SANDRA MARIE HOFFMANN Date of Survey: 29.05.2017 Surveyor's Ref: PR124856-DP14 2017M7100 (792 & 799) EXEMPTION No. 16/070-072	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: —— Lengths are in metres. Reduction Ratio 1: NTS	Registered: 19.3.2018	DP1231660

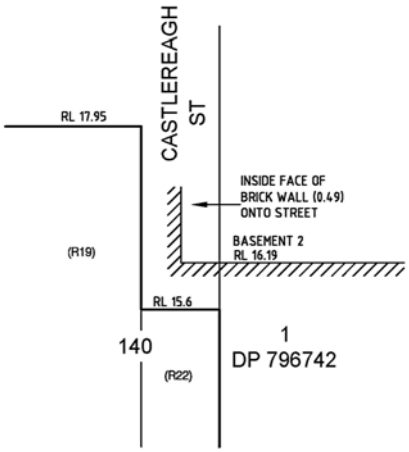
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

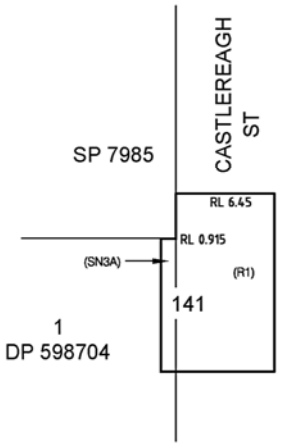
Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:8 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W



SECTION 'D'-'D'



SECTION 'E'-'E'



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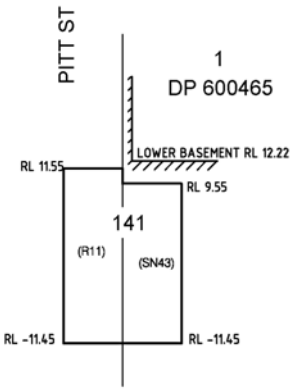
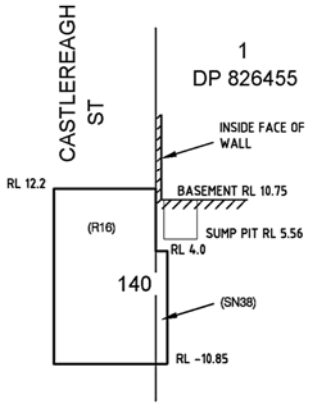
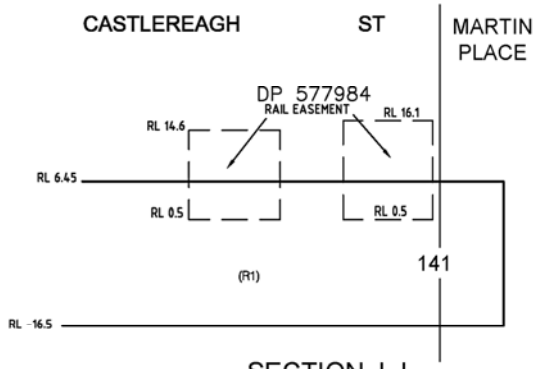


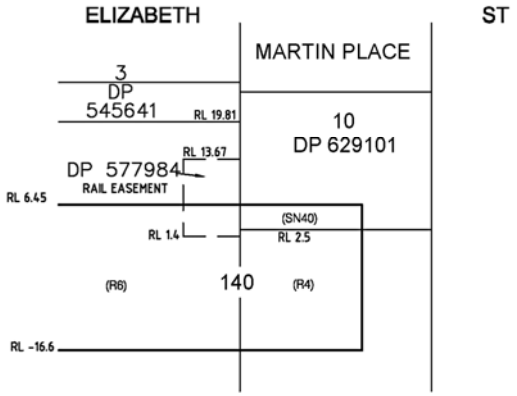
SECTION 'G'-'G'



SECTION 'H'-'H'



SECTION J-J



SECTION K-K

Surveyor: SANDRA MARIE HOFFMANN Date of Survey: 29.05.2017 Surveyor's Ref: PR124856-DP14 2017M7100 (792 & 799) EXEMPTION No. 16/070-072	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: —— Lengths are in metres. Reduction Ratio 1: NTS	Registered: 19.3.2018	DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:9 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

TABLE OF AFFECTATIONS AND STRATUM LIMITS

AFFECTED PROPERTY	EXTENT OF ACQUISITION					
LOT & DP	PLAN NOTATION	*APPROX. GROUND SURFACE LEVEL (RL)*	UPPER STRATUM LIMIT	LOWER STRATUM LIMIT	PART AREA (approx.) (m^2)	TOTAL AREA (approx.) (m^2)
	ACQUISITION LOT 140					
LOT 10 DP 1005181	(SN4)	*RL 28*	RL 6.45	RL -16.6	6	
LOT 2 DP 233816	(SN5)	*RL 27*	RL 6.45	RL -16.6	148	
LOT 1 DP 1111875	(SN18)	*RL 26*	RL 6.45	RL -16.6	159	485
	(SN19)	*RL 26*	RL 4.45	RL -16.8	326	
LOT 103 DP 828461	(SN20)	*RL 24*	RL 4.45	RL -16.8	2	
LOT 1 DP 181397	(SN21)	*RL 24*	RL 4.45	RL -16.8	604	685
	(SN22)	*RL 23*	RL 6.1	RL -16.6	81	
LOT 1 DP 74609	(SN23)	*RL 23*	RL 6.1	RL -16.6	353	
LOT 1 DP 34666	(SN24)	*RL 22*	RL 6.1	RL -16.6	466	843
	(SN25)	*RL 22*	RL 8.15	RL -14.9	377	
LOT 1 DP 173075	(SN33)	*RL 22*	RL 10.2	RL -12.85	106	
LOT 2 DP 173075	(SN34)	*RL 22*	RL 10.2	RL -12.85	44	
LOT 1 DP 772736	(SN35)	*RL 22*	RL 10.2	RL -12.85	80	
CP SP 17914	(SN36)	*RL 22*	RL 10.2	RL -12.85	29	33
	(SN37)	*RL 22*	RL 12.2	RL -10.85	4	
LOT 1 DP 826455	(SN38)	*RL 22*	RL 4	RL -10.85	69	76
	(SN39)	*RL 22*	RL 4	RL -8.85	7	
LOT 10 DP 629101	(SN40)	*RL 26*	RL 6.45	RL 2.5	268	
LOT 2 DP 250060	(SN41)	*RL 26*	RL 6.45	RL 2.5	22	
	ACQUISITION LOT 141					
LOT 7005 DP 1120403	(SN1)	*RL 23*	RL 6.45	RL -16.5	5	
LOT 1 DP 598704	(SN3)	*RL 23*	RL 4.55	RL -16.5	493	550
	(SN3A)	*RL 23*	RL 0.915	RL -16.5	46	
	(SN3B)	*RL 23*	RL 6.45	RL -16.5	11	
LOT 1 DP 78062	(SN6)	*RL 23*	RL 4.55	RL -17.3	89	
CP SP 21574	(SN7)	*RL 22*	RL 4.55	RL -17.3	365	
CP SP 67212	(SN8)	*RL 22*	RL 4.55	RL -17.3	2	
LOT 1 DP 75550	(SN9)	*RL 22*	RL 4.55	RL -17.3	360	
LOT 1 DP 1182754	(SN15)	*RL 21*	RL 4.55	RL -17.3	471	2097
	(SN16)	*RL 20*	RL 2.65	RL -17.05	883	
	(SN17)	*RL 19*	RL 7.6	RL -15.4	679	
	(SN26)	*RL 19*	RL 9.55	RL -13.45	62	
	(SN42)	*RL 19*	RL 0	RL -17.05	2	
LOT 10 DP 865713	(SN27)	*RL 19*	RL 9.55	RL -13.45	149	
LOT 1 DP 945729	(SN28)	*RL 19*	RL 9.55	RL -13.45	66	
LOT 1 DP 600465	(SN29)	*RL 19*	RL 9.55	RL -13.45	50	227
	(SN30)	*RL 19*	RL 11.55	RL -11.45	143	
	(SN43)	*RL 19*	RL 9.55	RL -11.45	34	
LOT 10 DP 828419	(SN31)	*RL 20*	RL 0	RL -11.45	18	30
	(SN32)	*RL 20*	RL 0	RL -9.5	12	
	ACQUISITION LOT 142					
LOT 1 DP 75550	(SN10)	*RL 22*	RL 4.1	RL -20.36	112	
LOT 1 DP 1182754	(SN11)	*RL22*	RL 4.1	RL -20.36	166	
LOT 103 DP 828461	(SN12)	*RL 24*	RL 4.1	RL -20.36	283	
LOT 1 DP 181397	(SN13)	*RL 24*	RL 4.1	RL -20.36	121	129
	(SN14)	*RL 24*	RL 4.1	RL -20.36	8	

AFFECTED ROAD	EXTENT OF ACQUISITION				
	PLAN NOTATION	UPPER STRATUM LIMIT	LOWER STRATUM LIMIT	PART AREA (approx.) (m^2)	TOTAL AREA (approx.) (m^2)
	ACQUISITION LOT 140				
ELIZABETH STREET	(R4)	RL 2.5	RL -16.6	289	2310
	(R6)	RL 6.45	RL -16.6	2016	
	(R9)	RL 4.45	RL -16.8	5	
KING STREET	(R7)	RL 6.45	RL -16.6	166	
MARKET STREET	(R13)	RL 8.15	RL -14.9	316	347
	(R14)	RL 10.2	RL -12.85	31	
CASTLEREAGH STREET	(R15)	RL 10.2	RL -12.85	398	3132
	(R16)	RL 12.2	RL -10.85	603	
	(R17)	RL 14.15	RL -8.85	666	
	(R18)	RL 16.15	RL -6.9	669	
	(R19)	RL 17.95	RL -4.9	777	
	(R22)	RL 15.6	RL -4.9	19	
	ACQUISITION LOT 141				
CASTLEREAGH STREET	(R1)	RL 6.45	RL -16.5	940	1529
	(R1A)	RL 4.55	RL -16.5	589	
KING STREET	(R2)	RL 4.55	RL -16.5	100	277
	(R3)	RL 4.55	RL -17.3	177	
MARKET STREET	(R5)	RL 9.55	RL -13.45	307	
PITT STREET	(R10)	RL 9.55	RL -13.45	66	2581
	(R11)	RL 11.55	RL -11.45	495	
	(R12)	RL 13.5	RL -9.5	678	
	(R20)	RL 15.45	RL -7.55	690	
	(R21)	RL 17.45	RL-5.6	652	
	ACQUISITION LOT 142				
CASTLEREAGH STREET	(R8)	RL 4.1	RL -20.36	297	

ROAD OWNERSHIP TABLE

AFFECTED ROAD	FEE SIMPLE
ELIZABETH STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
	CT 4632-188 & CT 4689-186
CASTLEREAGH STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
KING STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
KING STREET-ELIZABETH STREET	CT 11149-129, CT 10668-150 & BK 1269 NO.226
MARKET STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
	CT 828-219, CT 2507-198
MARKET STREET-PITT STREET	1/741892
PITT STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920

Surveyor: SANDRA MARIE HOFFMANN
Date of Survey: 29.05.2017
Surveyor's Ref: PR124856-DP14
2017M7100 (792 & 799)
EXEMPTION No. 16/070-072

PLAN OF
ACQUISITION FOR RAILWAY PURPOSES

L.G.A.: SYDNEY
Locality: SYDNEY
Subdivision No: ———
Lengths are in metres. Reduction Ratio 1: N/A

Registered: 19.3.2018

DP1231660

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP14-001d_180315.dwg)

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:10 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:11 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

PLAN FORM 6 (2013) WARNING: Creasing or folding will lead to rejection ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 19.3.2018

Title System: TORRENS

Purpose: ACQUISITION

Office Use Only

DP1231660

PLAN OF ACQUISITION
FOR RAILWAY PURPOSES

LGA: SYDNEY

Locality: SYDNEY

Parish: ST JAMES

County: CUMBERLAND

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, ...

*Authorised Person/*General Manager/*Accredited Certifier, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: .....

Accreditation number: .....

Consent Authority: .....

Date of endorsement: .....

Subdivision Certificate number: .....

File number: .....

*Strike through if inapplicable.

Survey Certificate

I, SANDRA MARIE HOFFMANN.....

of RPS AUST EAST PTY LTD .....

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

*(a) The land shown in the plan was surveyed in accordance with the *Surveying and Spatial Information Regulation 2012*, is accurate and the survey was completed on 29.05.2017

~~*(b) The part of the land shown in the plan (*being/*excluding ^.....) was surveyed in accordance with the *Surveying and Spatial Information Regulation 2012*, is accurate and the survey was completed on,..... the part not surveyed was compiled in accordance with that Regulation.~~

~~*(c) The land shown in this plan was compiled in accordance with the *Surveying and Spatial Information Regulation 2012*.~~

Signature: ..... Dated: 7/12/17

Surveyor ID: 8461 .....

Datum Line: "X"-"Y" .....

Type: *Urban/*Rural

The terrain is *Level-Undulating / ~~*Steep-Mountainous.~~

*Strike through if inapplicable.

^Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Statements of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED TO ACQUIRE LOTS 140-142 INCLUSIVE FOR RAILWAY PURPOSES

Plans used in the preparation of survey/~~compilation.~~

DP 17914, DP 21574, DP 34666, DP 67212, DP 74609, DP 75550, DP 78062, DP 87319, DP 173075, DP 181397, DP 233816, DP 250060, DP 532512, DP 545641, DP 598704, DP 600465, DP 629101, DP 740661, DP 772736, DP 815139, DP 819301, DP 826455, DP 828419, DP 828461, DP 865713, DP 945729, DP 1005181, DP 1029171, DP 1042711, DP 1069259, DP 1070879, DP 1111875, DP 1120403, DP 1120540, DP 1147227, DP 1182754, DP 1190366, DP 1196090, SP 17914, SP 21524, SP 67212

If space is insufficient continue on PLAN FORM 6A

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

Surveyor's Reference: PR124856-DP14

2017M7100(792 & 799), EXEMPTION No.16/070-072

Req:R306868 /Doc:DP 1231660 P /Rev:19-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:20-Mar-2018 03:30 /Seq:12 of 12
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

ePlan

PLAN FORM 6A (2012) WARNING: Creasing or folding will lead to rejection

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 19.3.2018

Office Use Only

DP1231660

PLAN OF ACQUISITION
FOR RAILWAY PURPOSES

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2012*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Subdivision Certificate number: .....

Date of Endorsement: .....

Street Addresses for All Lots are Not Available.

Surveyor's Reference: PR124856-DP14 2017M7100(792 & 799), EXEMPTION No.16/070-072

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:1 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

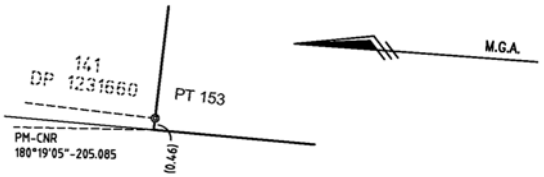


DIAGRAM 1A
NOT TO SCALE

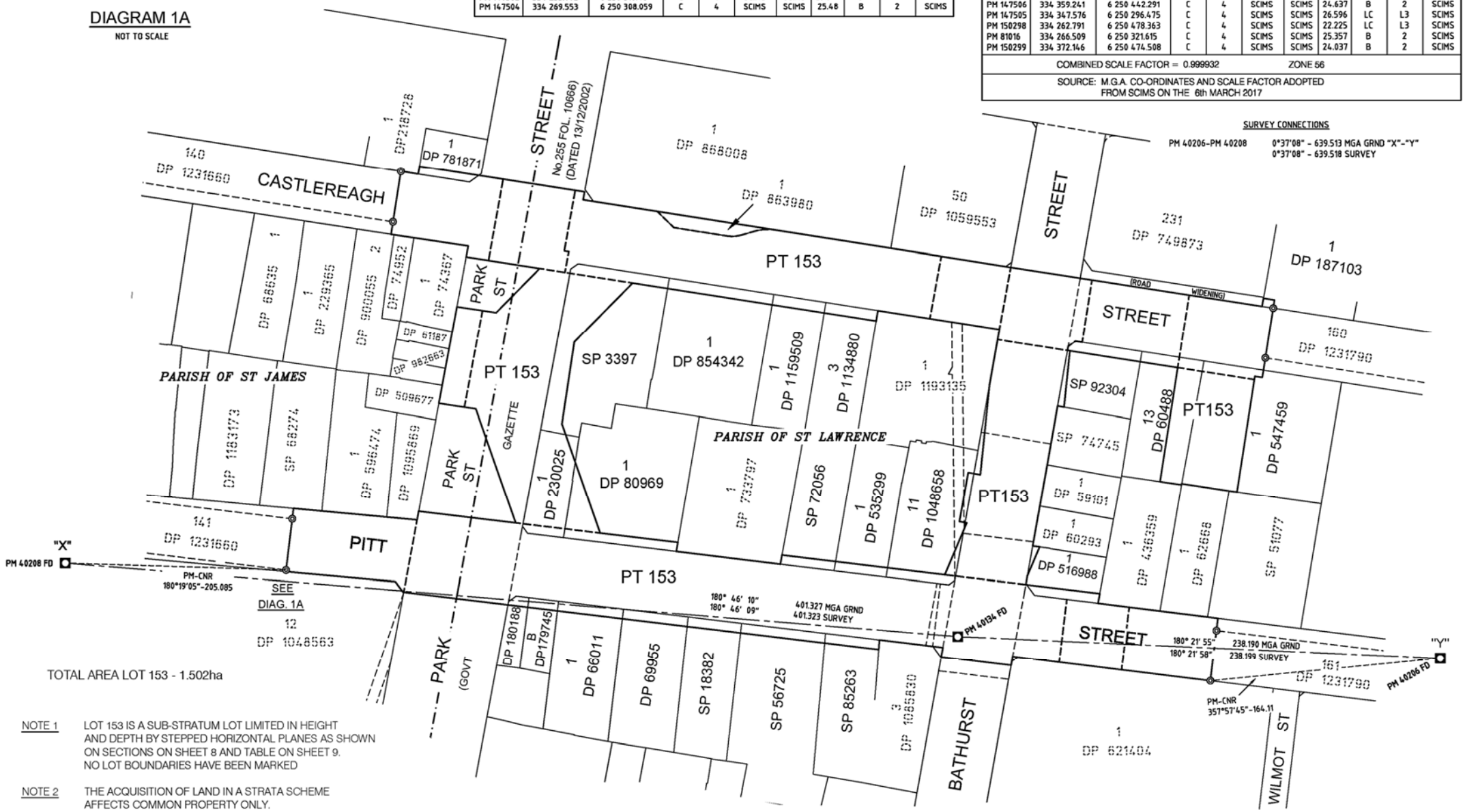
SURVEYING AND SPATIAL INFORMATION REGULATION 2012 : CLAUSE 35(1)(b), 61(2) & 62

MARK	MGA EASTING	MGA NORTHING	CLASS	ORDER	METHOD	ORIGIN	AHD	CLASS	ORDER	ORIGIN
PM 40132	334 264.652	6 250 301.677	B	2	SCIMS	SCIMS	17	U	U	SCIMS
PM 40134	334 255.574	6 250 322.717	B	2	SCIMS	SCIMS	25	LB	L2	SCIMS
PM 40206	334 254.056	6 250 084.548	B	2	SCIMS	SCIMS	17.701	LB	L2	SCIMS
PM 40208	334 260.964	6 250 723.981	B	2	SCIMS	SCIMS	20	U	U	SCIMS
PM 50864	334 358.873	6 250 299.032	C	4	SCIMS	SCIMS	26.546	B	2	SCIMS
PM 51376	334 359.878	6 250 312.119	C	4	SCIMS	SCIMS	26.54	LB	L2	SCIMS
PM 147494	334 345.222	6 250 312.757	C	4	SCIMS	SCIMS	26.276	B	2	SCIMS
PM 147502	334 255.772	6 250 310.46	C	4	SCIMS	SCIMS	25.388	B	2	SCIMS
PM 147504	334 269.553	6 250 308.059	C	4	SCIMS	SCIMS	25.48	B	2	SCIMS
PM 147507	334 271.699	6 250 451.98	C	4	SCIMS	SCIMS	22.737	LC	L3	SCIMS
PM 147496	334 422.427	6 250 440.528	C	4	SCIMS	SCIMS	25.484	LC	L3	SCIMS
PM 147497	334 369.821	6 250 446.146	C	4	SCIMS	SCIMS	24.518	LC	L3	SCIMS
PM 150302	334 419.713	6 250 460.749	C	4	SCIMS	SCIMS	25.244	LC	L3	SCIMS
PM 147004	334 381.4	6 250 724.6	E	U	SCIMS	SCIMS	21.13	D	4	SCIMS
PM 147005	334 364.369	6 250 494.577	C	4	SCIMS	SCIMS	23.775	B	2	SCIMS
PM 147006	334 362.726	6 250 472.576	C	4	SCIMS	SCIMS	24.07	LC	L3	SCIMS
PM 147007	334 378.889	6 250 466.02	C	4	SCIMS	SCIMS	24.529	B	2	SCIMS
PM 147012	334 273.157	6 250 483.813	C	4	SCIMS	SCIMS	22.299	B	2	SCIMS
PM 147013	334 264.981	6 250 553.922	C	4	SCIMS	SCIMS	21.138	B	2	SCIMS
PM 147498	334 362.612	6 250 356.181	C	4	SCIMS	SCIMS	25.757	B	2	SCIMS
PM 147506	334 359.241	6 250 442.291	C	4	SCIMS	SCIMS	24.637	B	2	SCIMS
PM 147505	334 347.576	6 250 296.475	C	4	SCIMS	SCIMS	26.596	LC	L3	SCIMS
PM 150298	334 262.791	6 250 478.363	C	4	SCIMS	SCIMS	22.225	LC	L3	SCIMS
PM 81016	334 266.509	6 250 321.615	C	4	SCIMS	SCIMS	25.357	B	2	SCIMS
PM 150299	334 372.146	6 250 474.508	C	4	SCIMS	SCIMS	24.037	B	2	SCIMS

COMBINED SCALE FACTOR = 0.999932 ZONE 56

SOURCE: M.G.A. CO-ORDINATES AND SCALE FACTOR ADOPTED FROM SCIMS ON THE 6th MARCH 2017

SURVEY CONNECTIONS
PM 40206-PM 40208 0°37'08" - 639.513 MGA GRND "X"-"Y"
0°37'08" - 639.518 SURVEY



TOTAL AREA LOT 153 - 1.502ha

NOTE 1 LOT 153 IS A SUB-STRATUM LOT LIMITED IN HEIGHT AND DEPTH BY STEPPED HORIZONTAL PLANES AS SHOWN ON SECTIONS ON SHEET 8 AND TABLE ON SHEET 9. NO LOT BOUNDARIES HAVE BEEN MARKED

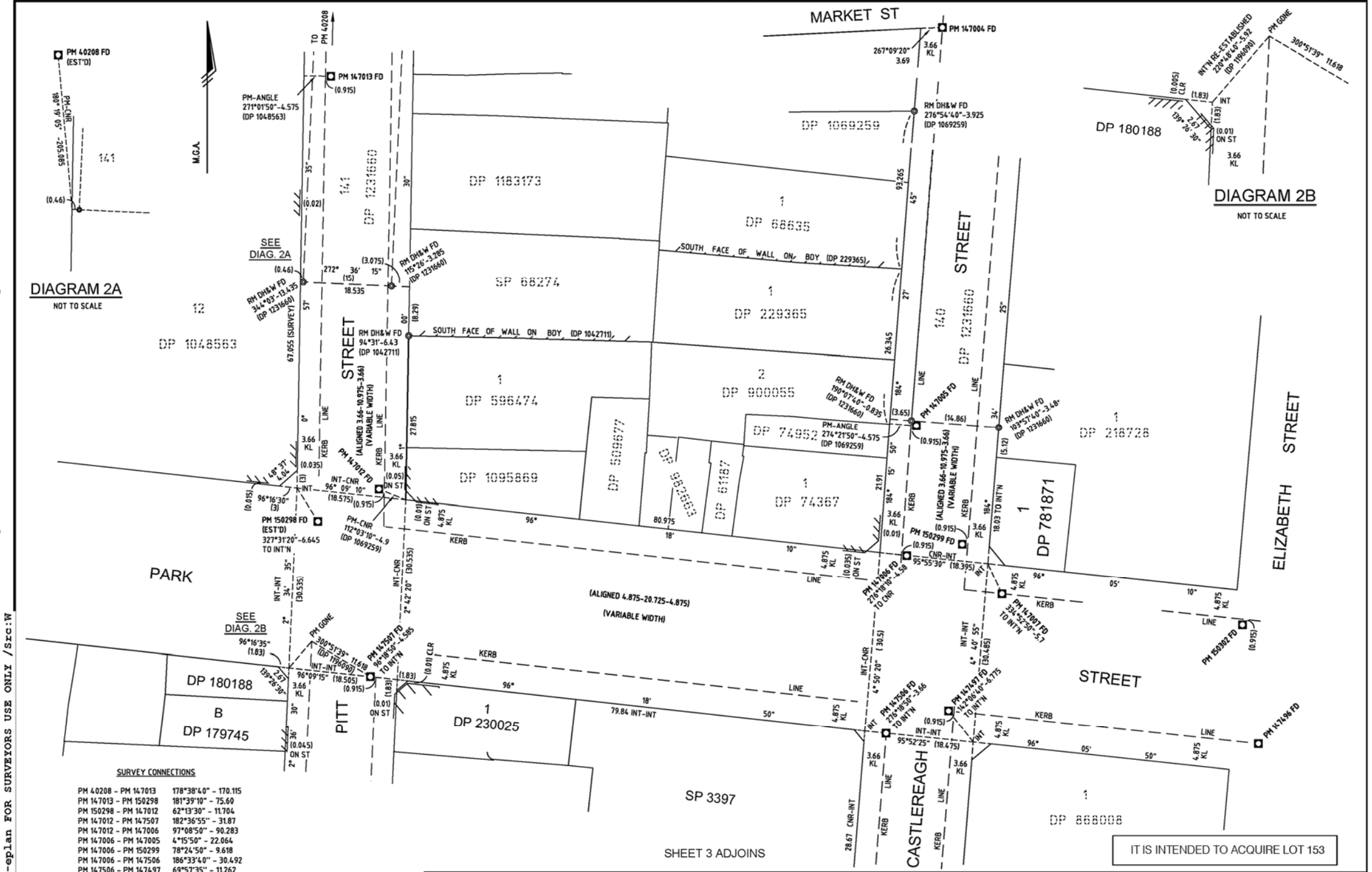
NOTE 2 THE ACQUISITION OF LAND IN A STRATA SCHEME AFFECTS COMMON PROPERTY ONLY.

IT IS INTENDED TO ACQUIRE LOT 153

Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 750	Registered: 22.3.2018	DP1232510

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)



SURVEY CONNECTIONS

PM 40208 – PM 147013	178°38'40" – 170.115
PM 147013 – PM 150298	181°39'10" – 75.60
PM 150298 – PM 147012	62°13'30" – 11.704
PM 147012 – PM 147507	182°36'55" – 31.87
PM 147012 – PM 147006	97°08'50" – 90.283
PM 147006 – PM 147005	4°15'50" – 22.064
PM 147006 – PM 150299	78°24'50" – 9.618
PM 147006 – PM 147506	186°33'40" – 30.492
PM 147506 – PM 147497	69°57'35" – 11.262
PM 150299 – PM 147007	141°32'15" – 10.841
PM 147007 – PM 147497	204°31'30" – 21.847
PM 147007 – PM 150302	97°21'35" – 41.16
PM 147507 – PM 147506	96°18'50" – 88.086
PM 147005 – PM 147004	4°14'05" – 230.703
PM 147497 – PM 147496	96°05'50" – 52.905

Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 400	Registered: 22.3.2018	DP1232510

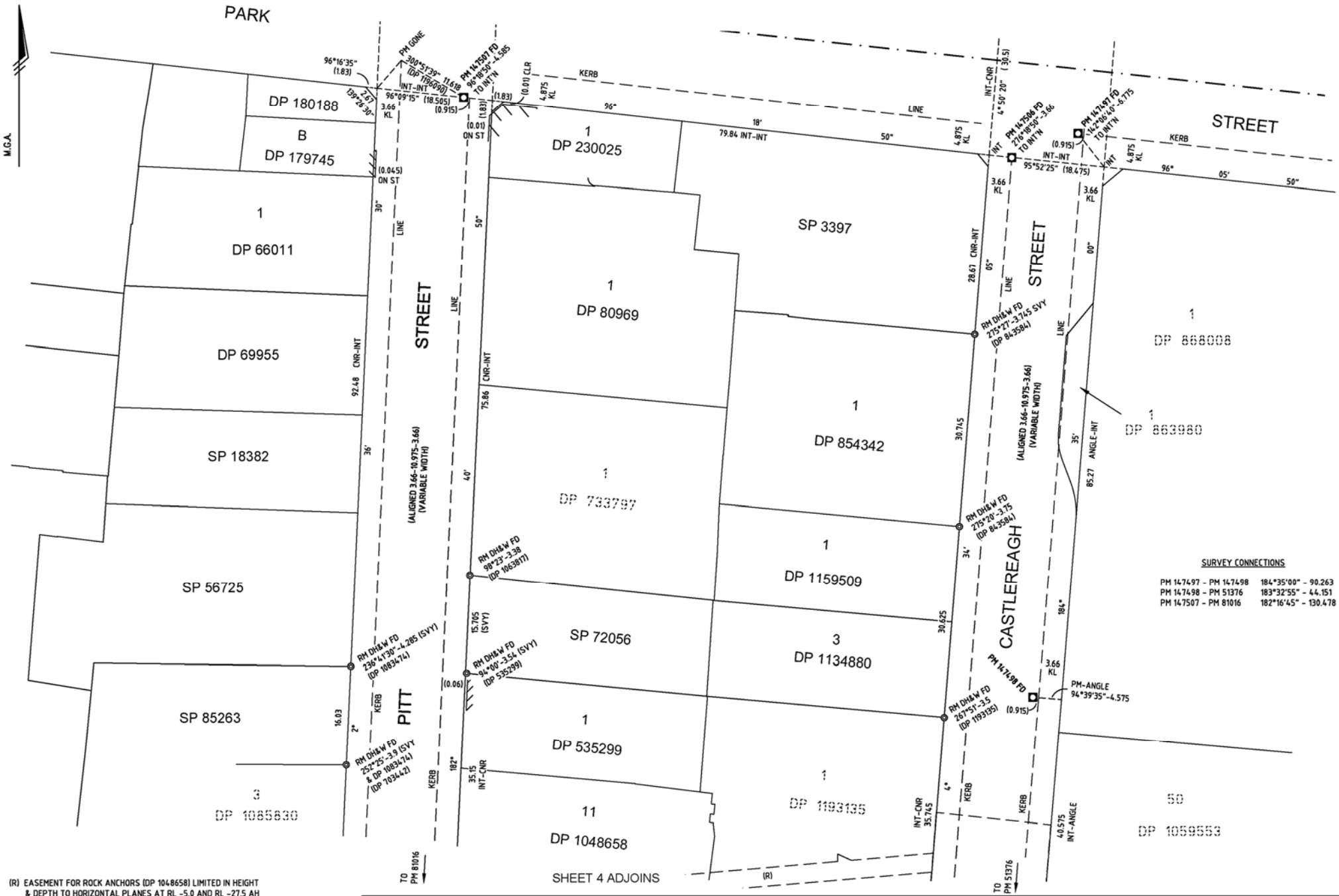
10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:2 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:3 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

SHEET 2 ADJOINS



(R) EASEMENT FOR ROCK ANCHORS (DP 1048658) LIMITED IN HEIGHT & DEPTH TO HORIZONTAL PLANES AT RL -5.0 AND RL -27.5 AH (VIDE 9534814)

Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 400	Registered: 22.3.2018	DP1232510

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:4 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

IT IS INTENDED TO ACQUIRE LOT153

SHEET 3 ADJOINS



SURVEY CONNECTIONS

PM 40134 – PM 81016	95°46'20" – 11.001
PM 40134 – PM 147502	179°02'00" – 12.26
PM 81016 – PM 147504	167°20'30" – 13.893
PM 81016 – PM 147494	96°25'20" – 79.214
PM 147502 – PM 147504	99°53'30" – 13.991
PM 147504 – PM 40132	217°29'30" – 8.043
PM 147504 – PM 147505	98°26'40" – 78.884
PM 147494 – PM 51376	92°29'10" – 14.672
PM 147494 – PM 147505	171°45'55" – 16.449
PM 51376 – PM 50864	184°22'40" – 13.128
PM 147505 – PM 50864	77°16'00" – 11.584

(R) EASEMENT FOR ROCK ANCHORS (DP 1048658) LIMITED IN HEIGHT & DEPTH TO HORIZONTAL PLANES AT RL -5.0 AND RL -27.5 AHD (VIDE 9534814)

Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 400	Registered: 22.3.2018	DP1232510

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

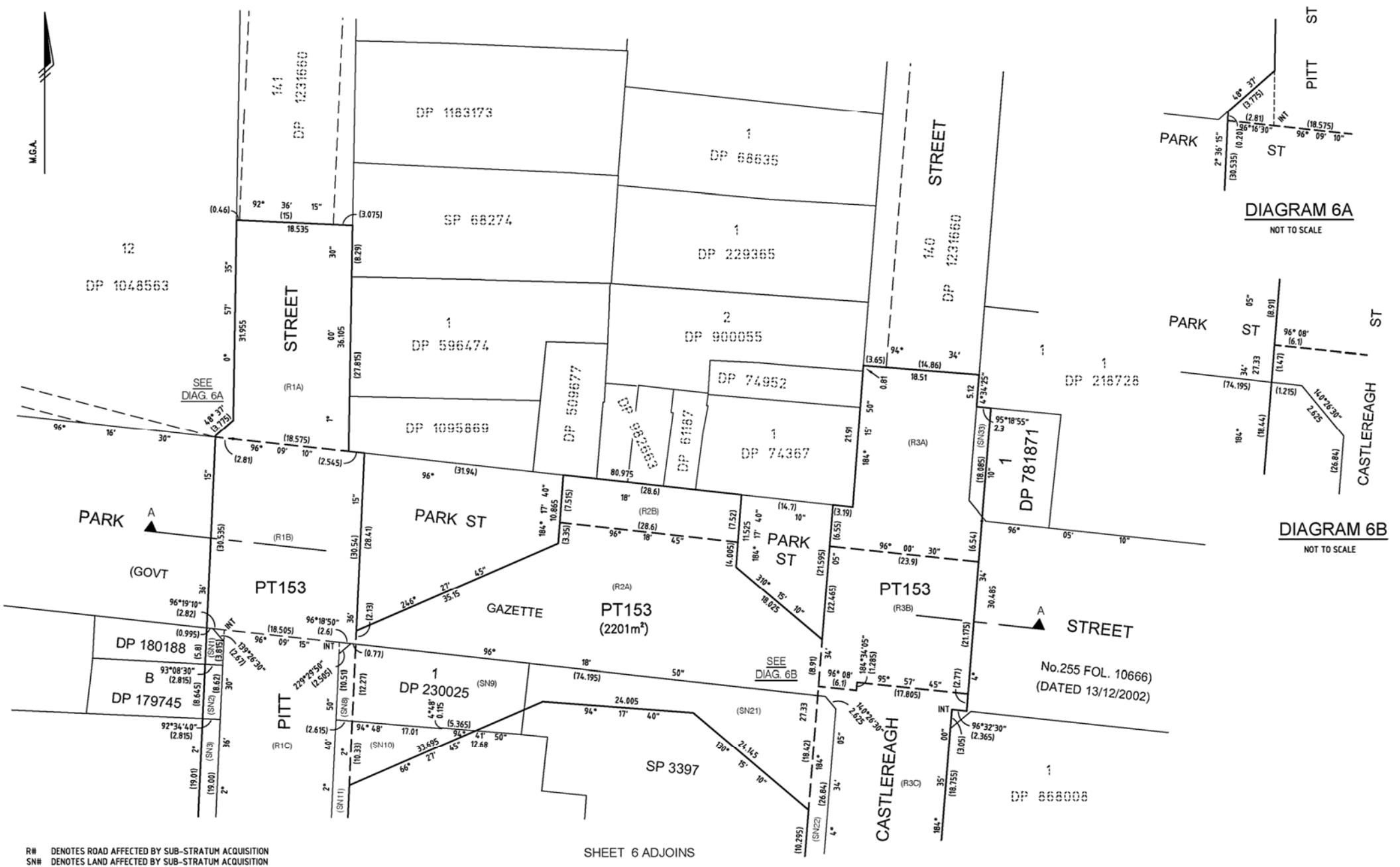


DIAGRAM 6A

NOT TO SCALE

DIAGRAM 6B

NOT TO SCALE

R# DENOTES ROAD AFFECTED BY SUB-STRATUM ACQUISITION
SN# DENOTES LAND AFFECTED BY SUB-STRATUM ACQUISITION

SECTION 'A'-'A' SEE SHEET 8

IT IS INTENDED TO ACQUIRE LOT 153

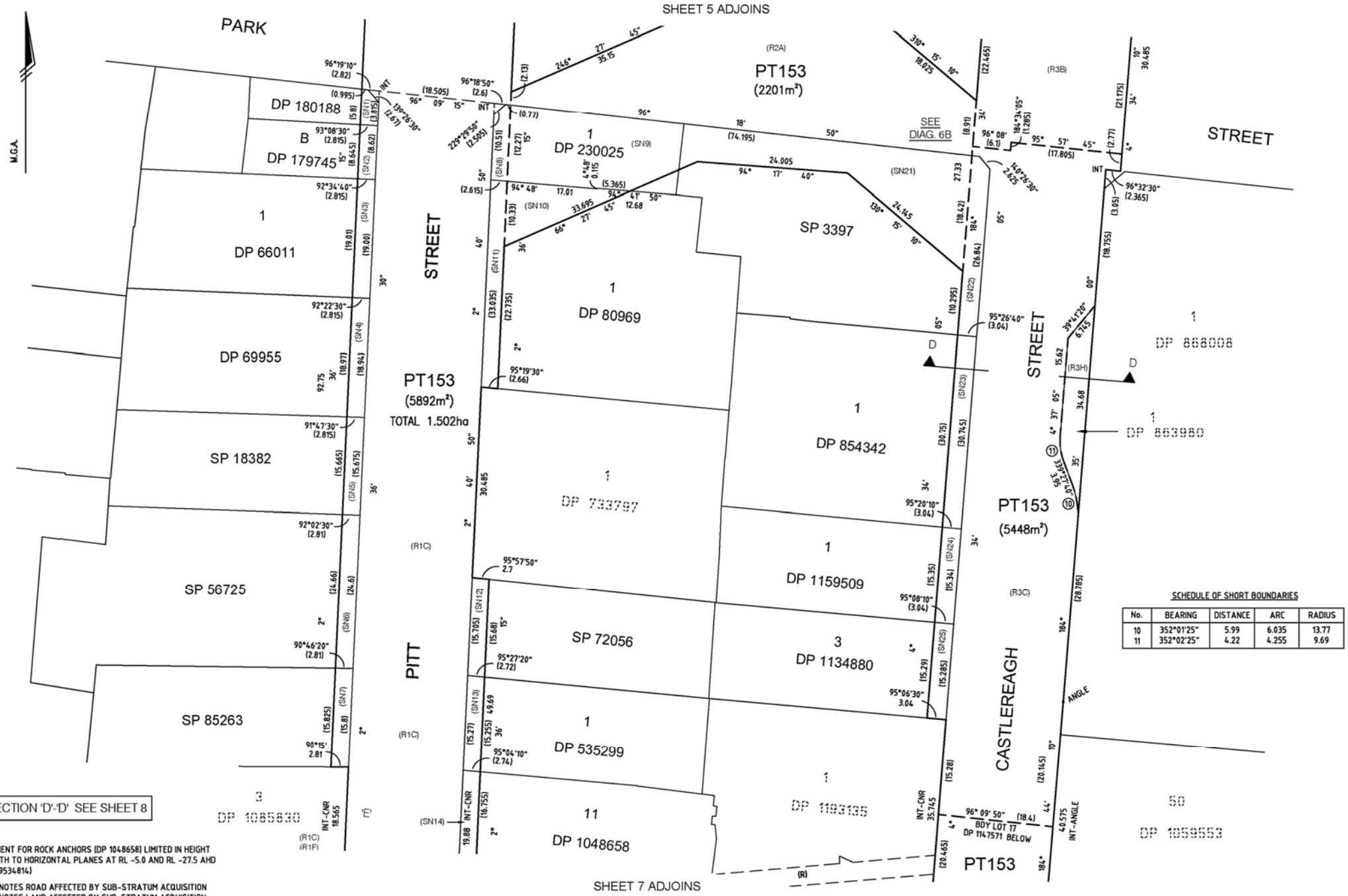
Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 400	Registered: 22.3.2018	DP1232510

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:5 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:6 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W



SECTION 'D'-'D' SEE SHEET 8

(R) EASEMENT FOR ROCK ANCHORS (DP 1048658) LIMITED IN HEIGHT & DEPTH TO HORIZONTAL PLANES AT RL -5.0 AND RL -27.5 AHD (VIDE 9534814)

R# DENOTES ROAD AFFECTED BY SUB-STRATUM ACQUISITION
SN# DENOTES LAND AFFECTED BY SUB-STRATUM ACQUISITION

IT IS INTENDED TO ACQUIRE LOT 153

SCHEDULE OF SHORT BOUNDARIES

No.	BEARING	DISTANCE	ARC	RADIUS
10	352°01'25"	5.99	6.035	13.77
11	352°02'25"	4.22	4.255	9.69

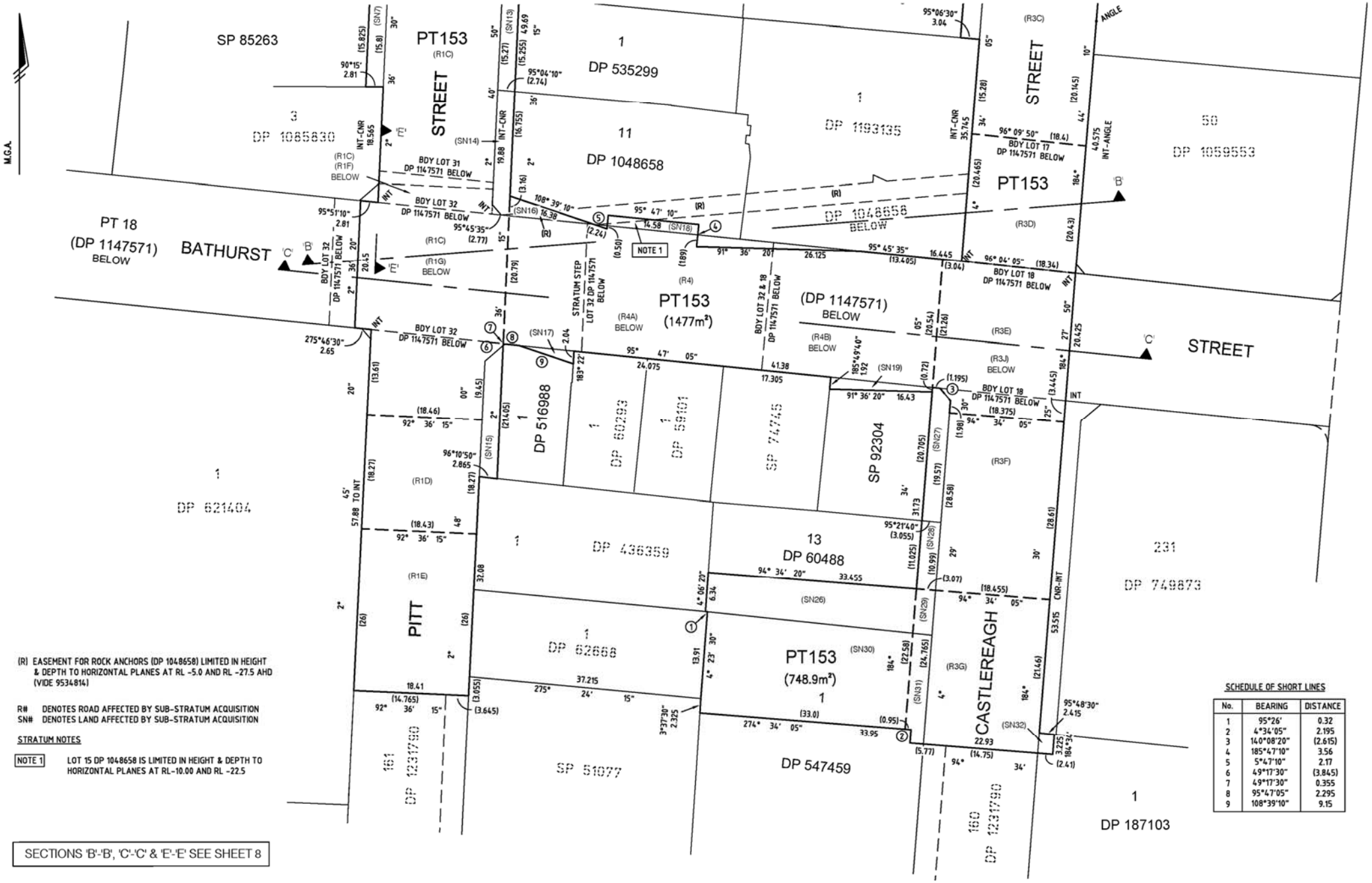
Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 400	Registered: 22.3.2018	DP1232510

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:7 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

SHEET 6 ADJOINS



(R) EASEMENT FOR ROCK ANCHORS (DP 1048658) LIMITED IN HEIGHT & DEPTH TO HORIZONTAL PLANES AT RL -5.0 AND RL -27.5 AHD (VIDE 9534814)

R# DENOTES ROAD AFFECTED BY SUB-STRATUM ACQUISITION
SN# DENOTES LAND AFFECTED BY SUB-STRATUM ACQUISITION

STRATUM NOTES

NOTE 1 LOT 15 DP 1048658 IS LIMITED IN HEIGHT & DEPTH TO HORIZONTAL PLANES AT RL-10.00 AND RL -22.5

SCHEDULE OF SHORT LINES

No.	BEARING	DISTANCE
1	95°26'	0.32
2	4°34'05"	2.195
3	140°08'20"	(2.615)
4	185°47'10"	3.56
5	5°47'10"	2.17
6	49°17'30"	(3.845)
7	49°17'30"	0.355
8	95°47'05"	2.295
9	108°39'10"	9.15

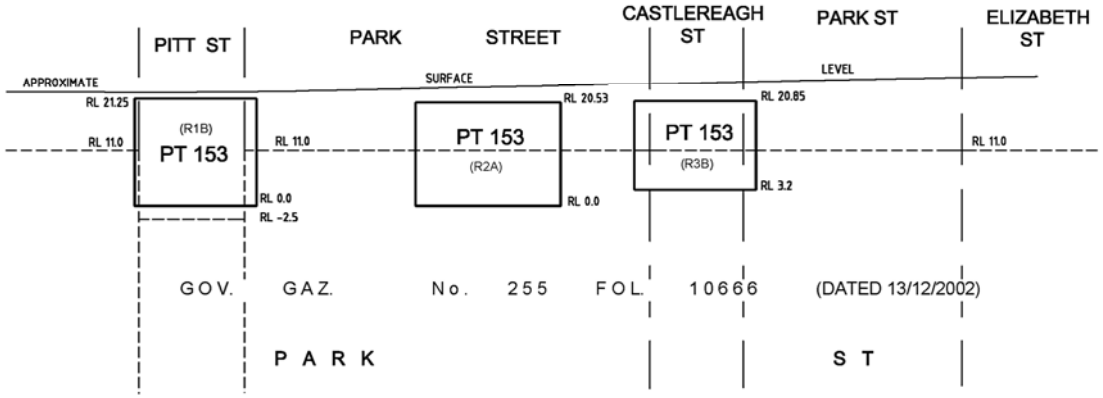
SECTIONS 'B'-'B', 'C'-'C' & 'E'-'E' SEE SHEET 8

IT IS INTENDED TO ACQUIRE LOT 153

Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: 400	Registered: 22.3.2018	DP1232510

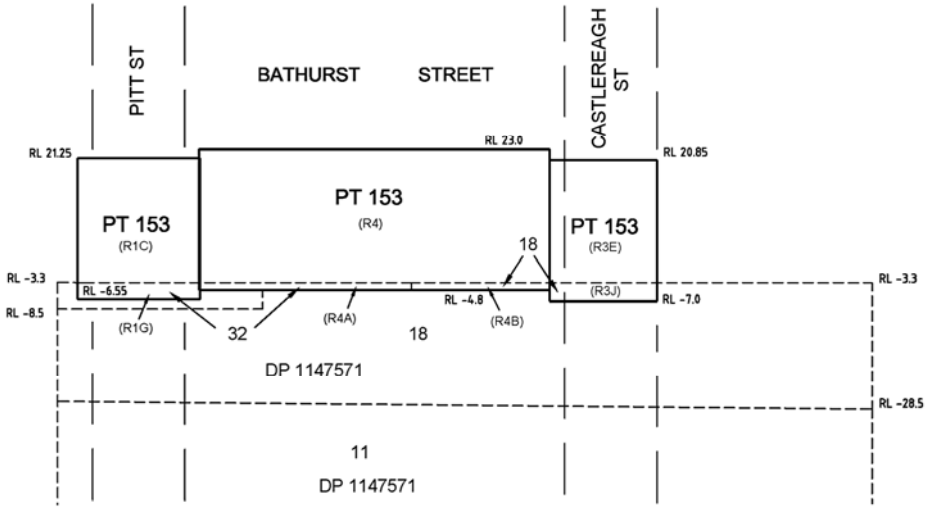
10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)



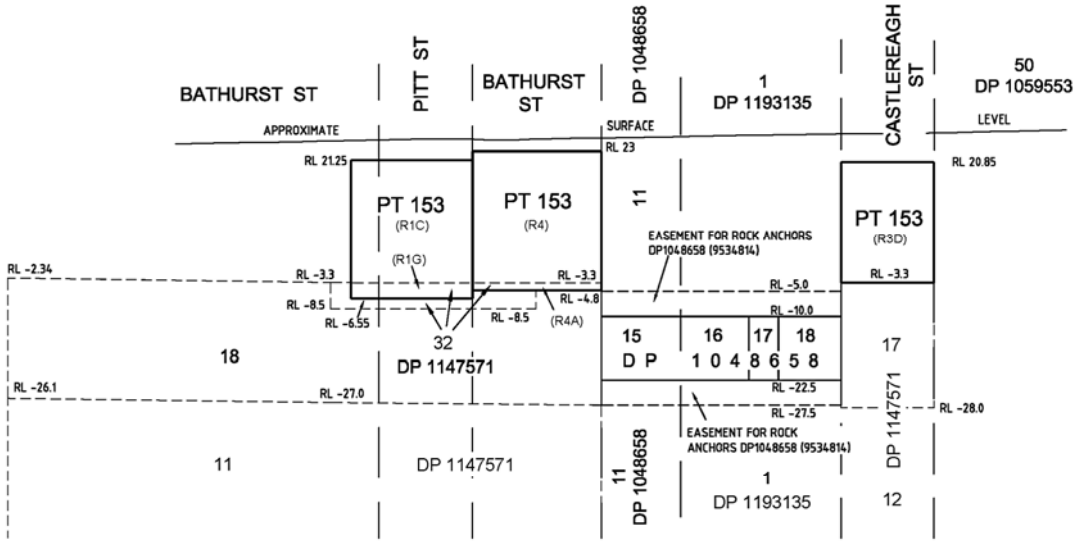
SECTION 'A'-'A'

NOT TO SCALE



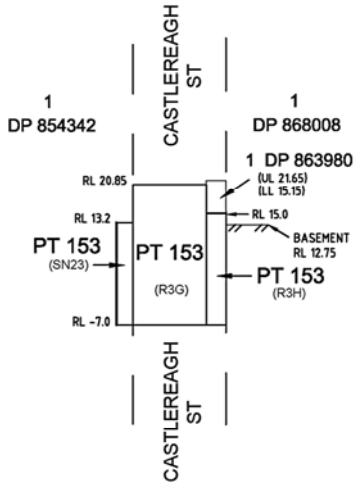
SECTION 'C'-'C'

NOT TO SCALE



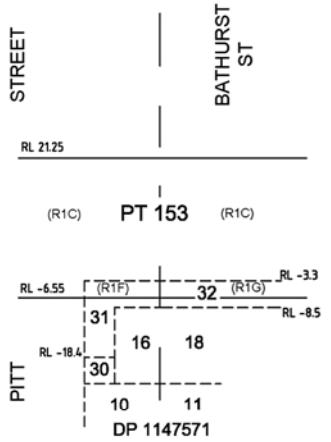
SECTION 'B'-'B'

NOT TO SCALE



SECTION 'D'-'D'

NOT TO SCALE



SECTION 'E'-'E'

NOT TO SCALE

ALL LEVELS SHOWN ARE ON AUSTRALIAN HEIGHT DATUM

UL DENOTES UPPER LEVEL
LL DENOTES LOWER LEVEL

Surveyor: DAVID WALLACE FAIRLIE Date of Survey: 12.05.2017 Surveyor's Ref: PR124856-DP15 2017M7100 (792 & 799)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Subdivision No: Lengths are in metres. Reduction Ratio 1: N.T.S.	Registered: 22.3.2018	DP1232510

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:8 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

AFFECTED PROPERTY	EXTENT OF STRATUM ACQUISITION					
LOT & DP	PLAN NOTATION	APPROX GROUND SURFACE LEVEL (RL)	UPPER STRATUM LIMIT	LOWER STRATUM LIMIT	PART AREA (approx.) (m^2)	TOTAL AREA (approx.) (m^2)
ACQUISITION LOT 153						
LOT 1 DP 180188	(SN1)	RL 23	RL 15	RL -6.55	14	
LOT B DP 179745	(SN2)	RL 23	RL 15	RL -6.55	24	
LOT 1 DP 66011	(SN3)	RL 23	RL 16	RL -6.55	53	
LOT 6 DP 69955	(SN4)	RL 24	RL 16.5	RL -6.55	53	
CP SP 18382	(SN5)	RL 24	RL 16	RL -6.55	44	
CP SP 56725	(SN6)	RL 24	RL 15.3	RL -6.55	69	
CP SP 85263	(SN7)	RL 25	RL 20.5	RL -6.55	44	
LOT 1 DP 230025	(SN8)	RL 23	RL 16	RL -6.55	30	340
	(SN9)	RL 24	RL 16	RL -5.2	310	
LOT 1 DP 80969	(SN10)	RL 24	RL 16	RL -5.2	101	188
	(SN11)	RL 24	RL 16	RL -6.55	87	
CP SP 72056	(SN12)	RL 25	RL 15	RL -6.55	42	
LOT 1 DP 535299	(SN13)	RL 25	RL 17	RL -6.55	41	
LOT 11 DP 1048658	(SN14)	RL 25	RL 17	RL -6.55	55	100
	(SN16)	RL 25	RL 17	RL -5	21	
	(SN18)	RL 26	RL 17	RL -4.8	24	
LOT 1 DP 516988	(SN15)	RL 25	RL 19	RL -6.55	56	65
	(SN17)	RL 26	RL 19	RL -5	9	
CP SP 3397	(SN21)	RL 24-25	RL 16	RL -5.2	376	461
	(SN22)	RL 25	RL 16	RL -7	85	
LOT 1 DP 854342	(SN23)	RL 25	RL 13.2	RL -7	93	
LOT 1 DP 1159509	(SN24)	RL 26	RL19.5	RL -7	46	
LOT 3 DP 1134880	(SN25)	RL 26	RL 20.85	RL -7	46	
CP SP 92304	(SN19)	RL 26	RL 19	RL -4.8	21	84
	(SN27)	RL 26	RL 19	RL -7.3	63	
LOT 13 DP 60488	(SN26)	RL 26	RL 21	RL -3.8	226	281
	(SN28)	RL 26	RL 20.85	RL -7.3	33	
	(SN29)	RL 26	RL 21.4	RL -8.05	22	
LOT 1 DP 547459	(SN30)	RL 25	RL 21	RL -3.8	523	575
	(SN31)	RL 26	RL 21.4	RL -8.05	52	
LOT 1 DP 187103	(SN32)	RL 26	RL 20	RL -8.05	8	
LOT 1 DP 781871	(SN33)	RL 24	RL 18	RL -6.3	42	

AFFECTED ROAD	EXTENT OF ACQUISITION					
ROAD NAME	PLAN NOTATION	APPROX GROUND SURFACE LEVEL (RL)	UPPER STRATUM LIMIT	LOWER STRATUM LIMIT	PART AREA (approx.) (m^2)	TOTAL AREA (approx.) (m^2)
PITT STREET	(R1A)	RL 22	RL 21.25	RL -8	662	5855
	(R1B)	RL 23	RL 21.25	RL 0	729	
	(R1C)	RL 23-25	RL 21.25	RL -6.55 (NOTE 1)	3068	
	(R1D)	RL 25	RL 21.25	RL -6.8	337	
	(R1E)	RL 24	RL 21.25	RL -8.5	479	
	(R1F)	RL 25	RL -3.3	RL -6.55	91	
	(R1G)	RL25	RL -3.3	RL -6.55	489	
PARK STREET	(R2A)	RL 23-24	RL 20.53	RL 0	1198	1413
	(R2B)	RL 23	RL 21.5	RL -4.6	215	
CASTLEREAGH STREET	(R3A)	RL 24	RL 22.15	RL -6.3	579	5399
	(R3B)	RL 24	RL 20.85	RL 3.2	514	
	(R3C)	RL 24-26	RL 20.85	RL -7	1908	
	(R3D)	RL 26	RL 20.85	RL -3.3	375	
	(R3E)	RL 26	RL 20.85	RL -3.3	507	
	(R3F)	RL 25	RL 20.85	RL -7.3	526	
	(R3G)	RL 25	RL 21.4	RL -8.05	456	
	(R3H)	RL 25	RL 15	RL -7	96	
	(R3J)	RL26	RL -3.3	RL -7	438	
BATHURST STREET	(R4)	RL 26-27	RL 23	RL -3.3	1400	2800
	(R4A)	RL 26	RL-3.3	RL -4.8	845	
	(R4B)	RL 26	RL -3.3	RL -4.8	555	

NOTE 1
LOWER LIMIT OF PART PITT STREET DENOTED (R1C) IS LIMITED IN DEPTH TO RL -6.55 A.H.D.
EXCEPT WHERE LIMITED TO UPPER LIMIT OF AREAS (R1F) & (R1G) BELOW

TABLE OF ROAD OWNERSHIPS

AFFECTED ROAD	FEE SIMPLE
CASTLEREAGH STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
PITT STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920. 31/1147571
PARK STREEET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
	GOVT GAZ 13-12-2002 FOL 10666
	CT4108-49, CT4540-209, 2/60259 & CT 9270-34
BATHURST STREET	SYDNEY CORPORATION ACT 1932 GOVT GAZ 31-12-1834 FOL 920
	O.S LAND BK 848 NO.114, BK 2089 FOL.165
	1/183073, 18/1147571 & 32/1147571

Surveyor: DAVID WALLACE FAIRLIE
Date of Survey: 12.05.2017
Surveyor's Ref: PR124856-DP15
2017M7100 (792 & 799)

PLAN OF
ACQUISITION FOR RAILWAY PURPOSES

L.G.A.: SYDNEY
Locality: SYDNEY
Subdivision No:
Lengths are in metres. Reduction Ratio 1: N/A

Registered: 22.3.2018

DP1232510

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-DP15-001k.dwg)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:9 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:10 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

PLAN FORM 6 (2013) WARNING: Creasing or folding will lead to rejection ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 22.3.2018

Title System: TORRENS

Purpose: ACQUISITION

Office Use Only

DP1232510

PLAN OF ACQUISITION FOR RAILWAY PURPOSES

LGA: SYDNEY

Locality: SYDNEY

Parish: ST JAMES, ST LAWRENCE

County: CUMBERLAND

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, ...

*Authorised Person/*General Manager/*Accredited Certifier, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: .....

Accreditation number: .....

Consent Authority: .....

Date of endorsement: .....

Subdivision Certificate number: .....

File number: .....

*Strike through if inapplicable.

Survey Certificate

I, DAVID WALLACE FAIRLIE.....

of RPS AUST EAST PTY LTD .....

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

*(a) The land shown in the plan was surveyed in accordance with the *Surveying and Spatial Information Regulation 2012*, is accurate and the survey was completed on 12.05.2017

~~*(b) The part of the land shown in the plan (*being/*excluding ^ ....) was surveyed in accordance with the *Surveying and Spatial Information Regulation 2012*, is accurate and the survey was completed on, ... the part not surveyed was compiled in accordance with that Regulation.~~

~~*(c) The land shown in this plan was compiled in accordance with the *Surveying and Spatial Information Regulation 2012*.~~

Signature: DFairlie Dated: 1.08.2017 .....

Surveyor ID: 1007 .....

Datum Line: "X"-"Y" .....

Type: *Urban/~~*Rural~~

The terrain is *Level-Undulating / ~~*Steep-Mountainous.~~

*Strike through if inapplicable.

^Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Statements of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED TO ACQUIRE LOT 153 FOR RAILWAY PURPOSES.

Plans used in the preparation of survey/~~compilation.~~

DP 180188, DP 179745, DP 66011, DP 69955, SP 18382, SP 56725, SP 85263, DP 230025, DP 80969, SP 72056, DP 535299, DP 1048658, DP 516988, SP 3397, DP 854342, DP 1159509, DP 1134880, DP 552279, DP 60488, DP 547459, DP 187103, DP 781871, DP 1048563, DP 1193135, DP 1048658, DP 1231660, DP 1231790, DP 1085830, DP 1059553, DP 551656, DP 218728, DP 1095869, DP 733797, DP 218604, SP 74745, DP 749873, DP 863980.

If space is insufficient continue on PLAN FORM 6A

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

Surveyor's Reference: PR124856-DP15
2017M7100(792 & 799)

Req:R330777 /Doc:DP 1232510 P /Rev:22-Mar-2018 /Sts:SC.OK /Pgs:ALL /Prt:23-Mar-2018 03:30 /Seq:11 of 11
Ref:lrs:eplan-eplan FOR SURVEYORS USE ONLY /Src:W

PLAN FORM 6A (2012) WARNING: Creasing or folding will lead to rejection ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 22.3.2018

Office Use Only

DP1232510

PLAN OF ACQUISITION FOR RAILWAY PURPOSES

Subdivision Certificate number: .....

Date of Endorsement: .....

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2012*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Surveyor's Reference: PR124856-DP15 2017M7100(792 & 799)

COORDINATE SCHEDULE

MARK	MGA CO-ORDINATES				LEVEL			METHOD	STATE
	EASTING	NORTHING	CLASS	ORDER	AHD	CLASS	ORDER		
PM 40206	334 254.056	6 250 084.548	B	2	17.701	LB	L2	FROM SCIMS	FOUND
PM 40208	334 260.964	6 250 723.981	B	2	20	U	U	FROM SCIMS	FOUND
PM 147504	334 269.553	6 250 308.059	C	4	25.48	B	2	FROM SCIMS	FOUND
PM 147507	334 271.699	6 250 451.98	C	4	22.737	LC	L3	FROM SCIMS	FOUND
PM 147497	334 369.821	6 250 446.146	C	4	24.518	LC	L3	FROM SCIMS	FOUND
PM 147505	334 347.576	6 250 296.475	C	4	26.596	LC	L3	FROM SCIMS	FOUND
PM 147006	334 362.726	6 250 472.576	C	4	24.07	LC	L3	FROM SCIMS	FOUND
PM 147007	334 378.889	6 250 466.02	C	4	24.529	B	2	FROM SCIMS	FOUND
PM 147012	334 273.157	6 250 483.813	C	4	22.299	B	2	FROM SCIMS	FOUND
PM 147506	334 359.241	6 250 442.291	C	4	24.637	B	2	FROM SCIMS	FOUND

DATE OF SCIMS COORDINATES: 3/7/2018 MGA ZONE: 56 MGA DATUM: GDA94
COMBINED SCALE FACTOR - 0.999932

HEIGHT DIFFERENCE SCHEDULE

FROM	TO	HEIGHT DIFFERENCE	METHOD
PM 147012	PM 147505	+4.290	TRIGONOMETRIC HEIGHTING
PM 147505	PM 147504	-1.101	TRIGONOMETRIC HEIGHTING
PM 147504	PM 147012	-3.189	TRIGONOMETRIC HEIGHTING

DATUM: AHD71

ORIGIN OF LEVELS
PM 147012 RL 22.299 SCIMS

TABLE OF ACQUISITION AFFECTATIONS

LOT	AFFECTATION	AREA
60	PARK STREET	311.9m²
61	PARK STREET	248.6m²
	CASTLEREAGH STREET	50.7m²

PM CONNECTIONS

PM 40208 - PM 40206	180°37'08" - 639.513 MGA GRND "X" - "Y"
	180°37'08 - 639.518 SURVEY
PM 40208 - PM 147012	177°05'37" - 240.493 MGA GRND
	177°05'32" - 240.492 SURVEY
PM 147012 - PM 40206	182°44'20" - 399.749 MGA GRND
	182°44'24" - 399.755 SURVEY
PM 147012 - PM 147006	97°09'03" - 90.277 MGA GRND
	97°08'49" - 90.283 SURVEY
PM 147006 - PM 147007	112°04'42" - 17.443 MGA GRND
	112°04'42" - 17.444 SURVEY
PM 147007 - PM 147497	204°31'34" - 21.846 MGA GRND
	204°31'33" - 21.847 SURVEY
PM 147497 - PM 147506	249°58'48" - 11.26 MGA GRND
	249°57'35" - 11.261 SURVEY
PM 147506 - PM 147507	276°18'57" - 88.083 MGA GRND
	276°18'52" - 88.086 SURVEY
PM 147507 - PM 147012	2°37'21" - 31.868 MGA GRND
	2°36'53" - 31.87 SURVEY

M.G.A. SCIMS

'X' PM 40208 FD (EST'D)

STREET PT LOT 153 DP 1232510 (BELOW)

PM 147012 FD (EST'D) PM - CNR 112°03'10"-4.9 (DP 1069259)

17 DP 1095869

2 DP 5096377

1 DP 982663

2 DP 61187

PARISH OF ST JAMES

1 DP 74367

PM- CNR 276°18'10"-4.58 (DP1232510)

3.66 KL

STREET PT LOT 153 DP 1232510 (BELOW)

3.66 KL

1 DP 781871

4.875 KL

96° 18' 10"

80.975 (CNR-CNR)

PARK STREET

PARK PT LOT 153 DP 1232510 (BELOW)

30.535

INT'N-CNR 2° 42' 20"

PM 147006 FD (EST'D)

B

A

CNR-INT'N 95°55'30" 18.395

PARK STREET

4.875 KL

PM 147007 FD (EST'D) PM - INT'N 334°52'50"-5.7 (DP 1232510)

4.875 KL

106° 45' 12" PM - CNR 84.33

60 311.9m²

INT'N-INT'N 30.485

184° 40' 55"

PT LOT 153 DP 1232510 (BELOW)

PM 147507 FD (EST'D) 96°18'50"-4.585 TO INT'N (DP 1232510)

4.875 KL

(GOVT GAZETTE No.255 FOL. 10666

PT LOT 153 DP 1232510 (BELOW)

(ALIGNED 4.875-20.725-4.875) (VARIABLE WIDTH)

STREET DATED 13/12/2002)

276° 18' 50" INT'N-INT'N 79.84

1 DP 230025

4.875 KL

61 299.3m²

PM 147497 FD (EST'D)

PM - INT'N 142°06'40"-6.775 (DP 1232510)

INT'N-INT'N 275° 52' 25" 18.475

4.875 KL

3.66 KL

PM 147506 FD (EST'D) 276°18'50"-3.66 TO INT'N (DP 1232510)

3.66 KL

1 DP 868008

PM - CNR 15° 22' 08" 371.805

SP 3397

B

A

CNR-INT'N 4° 34' 05" - 28.67

CASTLEREAGH (ALIGNED 3.66-10.975-3.66) (VARIABLE WIDTH)

3.66 KL

1 DP 80969

'Y' PM 40206 FD (EST'D)

RM DH&W FD 275°27'-3.745 (DP 1232510)

PT LOT 153 DP 1232510 (BELOW)

PARISH OF ST LAWRENCE

IT IS INTENDED TO ACQUIRE LOTS 60 & 61

THE STREET DEFINITION AGREES WITH THE STREET BOUNDARY DEFINITION BY DP1232510 PREVIOUSLY APPROVED BY THE CITY OF SYDNEY

LOTS 60 & 61 ARE SUB-STRATUM LOTS LIMITED IN HEIGHT AND DEPTH BY HORIZONTAL AND INCLINED PLANES AS STATED IN THE STRATUM NOTES AND AS SHOWN ON SHEET 2.

NO LOT BOUNDARIES HAVE BEEN MARKED

SEE SHEET 2 FOR FULL DIMENSIONS OF LOTS 60 & 61, STRATUM NOTES AND SECTIONS A-A AND B-B

ROAD OWNERSHIP

AFFECTED ROAD	FEE SIMPLE
PARK STREET	GOV'T GAZETTE 13-12-2002 FOL 10666
CASTLEREAGH STREET	SYDNEY CORPORATION ACT 1932, GOV'T GAZETTE 31-12-1834 FOL 920 CT 4108-49

SURVEYOR
Name: DAVID ANDREW ADA
Date: 10.07.2018
Reference: PR124856-59-DP2 2017M7100 (792)

PLAN OF ACQUISITION FOR RAILWAY PURPOSES

L.G.A.: SYDNEY
Locality: SYDNEY
Reduction Ratio: 1: **300**
Lengths are in metres

REGISTERED

PPN DP1245459

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-59-DP2-001.dwg)

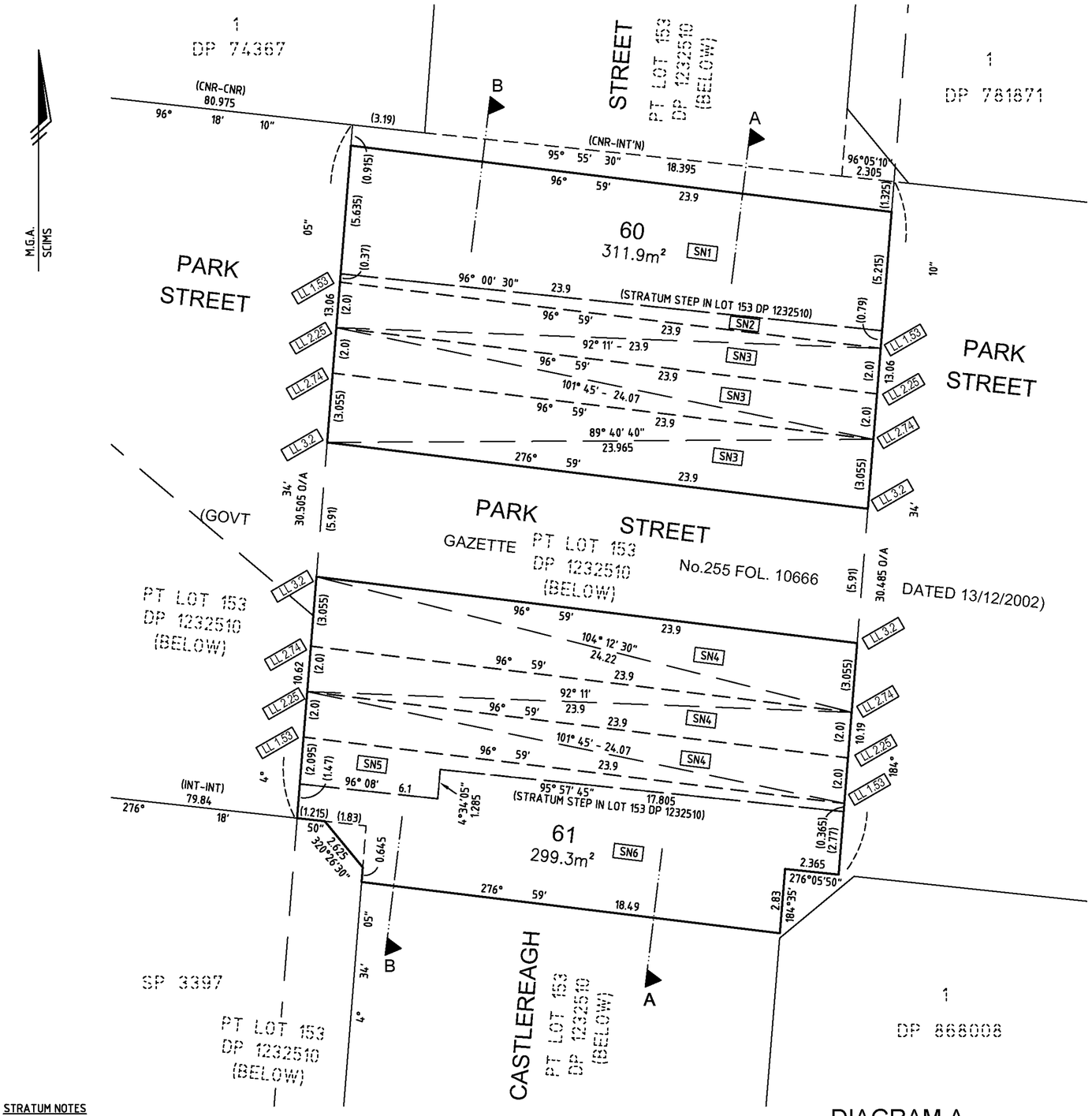
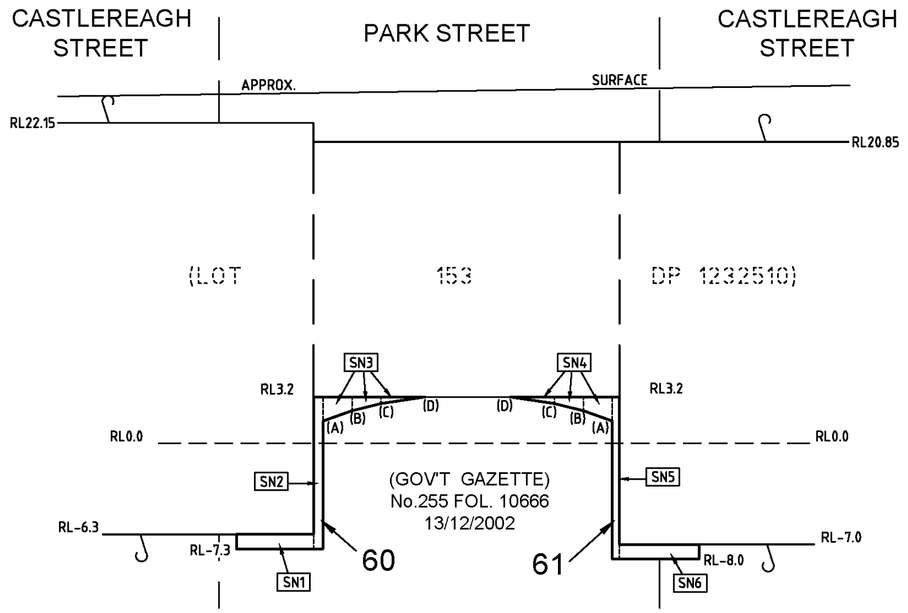


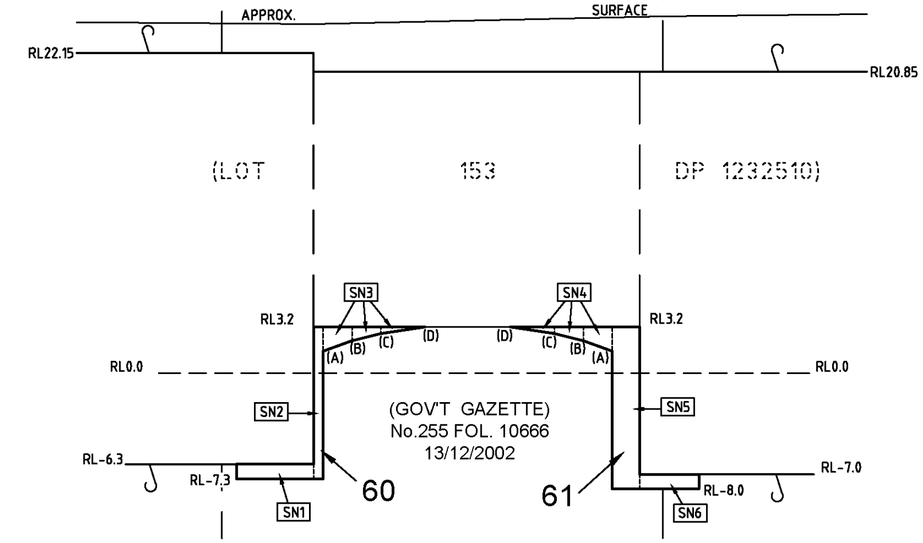
DIAGRAM A

SCALE 1:150



SECTION A-A

SCALE 1:300



(A) = RL1.53
(B) = RL2.25
(C) = RL2.74
(D) = RL3.2

SECTION B-B

SCALE 1:300

IT IS INTENDED TO ACQUIRE LOTS 60 & 61

STRATUM NOTES

(SN1) DENOTES LOT 60 IS LIMITED IN DEPTH TO THE LEVEL PLANE AT RL -7.3 AND IS LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL -6.3 (BEING THE UNDERSIDE OF LOT 153 IN DP1232510)
(SN2) DENOTES LOT 60 IS LIMITED IN DEPTH TO THE LEVEL PLANE AT RL -7.3 AND IS LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL 3.2 (BEING THE UNDERSIDE OF LOT 153 IN DP1232510)
(SN3) DENOTES LOT 60 IS LIMITED IN DEPTH BY REGULAR INCLINED PLANES TO THE LEVELS SHOWN ON DIAGRAM A, AND IS LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL 3.2 (BEING THE UNDERSIDE OF LOT 153 IN DP1232510)
(SN4) DENOTES LOT 61 IS LIMITED IN DEPTH BY REGULAR INCLINED PLANES TO THE LEVELS SHOWN ON DIAGRAM A, AND IS LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL 3.2 (BEING THE UNDERSIDE OF LOT 153 IN DP1232510)
(SN5) DENOTES LOT 61 IS LIMITED IN DEPTH TO THE LEVEL PLANE AT RL -8.0 AND IS LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL 3.2 (BEING THE UNDERSIDE OF LOT 153 IN DP1232510).
(SN6) DENOTES LOT 61 IS LIMITED IN DEPTH TO THE LEVEL PLANE AT RL -8.0 AND IS LIMITED IN HEIGHT TO THE LEVEL PLANE AT RL -7.0 (BEING THE UNDERSIDE OF LOT 153 IN DP1232510).

LEVELS SHOWN ARE ON AUSTRALIAN HEIGHT DATUM (A.H.D.)

LL 3.2 DENOTES LOWER LEVEL OF INCLINED PLANE

SURVEYOR Name: DAVID ANDREW ADA Date: 10.07.2018 Reference: PR124856-59-DP2 2017M7100 (792)	PLAN OF ACQUISITION FOR RAILWAY PURPOSES	L.G.A.: SYDNEY Locality: SYDNEY Reduction Ratio: 1: **AS SHOWN** Lengths are in metres	REGISTERED

PPN DP1245459

10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 Table of mm

(Cad Ref: PR124856-59-DP2-001.dwg)

PLAN FORM 6 (2017)	**DEPOSITED PLAN ADMINISTRATION SHEET**	Sheet 1 of 2 sheet(s)

Office Use Only	Office Use Only
Registered:	PPN DP1245459
Title System:	

PLAN OF ACQUISITION

FOR RAILWAY PURPOSES

LGA: SYDNEY

Locality: SYDNEY

Parish: ST JAMES, ST LAWRENCE

County: CUMBERLAND

Survey Certificate

I, DAVID ANDREW ADA .....

of RPS AUST. EAST PTY LTD.....

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

*(a) The land shown in the plan was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, is accurate and the survey was completed on 10.07.2018

~~*(b) The part of the land shown in the plan (*being/*excluding ** .....~~
~~.....)~~
~~was surveyed in accordance with the *Surveying and Spatial Information Regulation 2017*, the part surveyed is accurate and the survey was completed on,..... the part not surveyed was compiled in accordance with that Regulation, or~~

~~*(c) The land shown in this plan was compiled in accordance with the *Surveying and Spatial Information Regulation 2017*.~~

Datum Line: "X"-"Y".....

Type: *Urban/~~*Rural~~

The terrain is *Level-Undulating/ ~~*Steep-Mountainous~~.

Signature: ..... Dated: 06.08.2018

Surveyor Identification No: 9131.....
Surveyor registered under
the *Surveying and Spatial Information Act 2002*

*Strike out inappropriate words.

**Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, ...

*Authorised Person/*General Manager/*Accredited Certifier, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: .....

Accreditation number: .....

Consent Authority: .....

Date of endorsement: .....

Subdivision Certificate number: .....

File number: .....

*Strike through if inapplicable.

Plans used in the preparation of survey/~~compilation~~.

DP 1232510

Statements of intention to dedicate public roads, create public reserves and drainage reserves, acquire/resume land.

IT IS INTENDED TO ACQUIRE LOTS 60 & 61

Surveyor's Reference: PR124856-59-DP2

2017M7100 (792)

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

PLAN FORM 6A (2017) **DEPOSITED PLAN ADMINISTRATION SHEET** Sheet 2 of 2 sheet(s)

Office Use Only

Registered:

Office Use Only

PPN DP1245459

PLAN OF ACQUISITION

FOR RAILWAY PURPOSES

Subdivision Certificate number: .....

Date of Endorsement: .....

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2017*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

SCHEDULE OF LOT AND ADDRESS

LOT	STREET No.	STREET NAME	STREET TYPE	LOCALITY

If space is insufficient use additional annexure sheet

Surveyor's Reference: PR124856-59-DP2

IMPORTANT INFORMATION - DIAL BEFORE YOU DIG

Attention: You must read the information below

The material provided or made available to you by Sydney Water (including on the Sydney Water website) in relation to your Dial Before You Dig enquiry (**Information**) is provided on each of the following conditions, which you are taken to have accepted by using the Information:

1 The Information has been generated by an automated system based on the area highlighted in the "Locality Indication Only" window on your Caller Confirmation. It is your responsibility to ensure that the dig site is properly defined when submitting your Dial Before You Dig enquiry and, if the Information does not match the dig site, to resubmit your enquiry for the correct dig site.

2 Neither Sydney Water nor Dial Before You Dig make any representation or give any guarantee, warranty or undertaking (express or implied) as to the currency, accuracy, completeness, effectiveness or reliability of the Information. The Information, including Sydney Water plans and work-as-executed diagrams, amongst other things:

(a) may not show all existing structures, including Sydney Water's pipelines, particularly in relation to newer developments and in relation to structures owned by parties who do not participate in the Dial Before You Dig service;

(b) may be out of date and not show changes to surface levels, road alignments, fences, buildings and the like;

(c) is approximate only and is therefore not suitable for scaling purposes; and

(d) does not show locations of property services (often called house service lines) belonging to or servicing individual customers, which are usually connected to Sydney Water's structures.

3 You are responsible for, amongst other things:

(a) exposing underground structures, including Sydney Water's pipelines, by pot-holing using hand-held tools or vacuum techniques so as to determine the precise location and extent of structures before any mechanical means of excavation are used;

(b) the safe and proper excavation of and for underground works and structures, including having regard to the fact that asbestos cement pipelines, which can pose a risk to health, may form part of Sydney Water's water and sewerage reticulation systems;

(c) protecting underground structures, including Sydney Water's pipelines, from damage and interference;

(d) maintaining minimum clearances between Sydney Water's structures and structures belonging to others;

(e) ensuring that backfilling of excavation work in the vicinity of Sydney Water's structures complies with Sydney Water's standards contained on its website or otherwise communicated to you;

(f) notifying Sydney Water immediately of any damage caused or threat of damage to Sydney Water's structures;

(g) ensuring that plans are approved by Sydney Water (usually signified by stamping) prior to landscaping or building over or in the vicinity of any Sydney Water structure; and

(h) ensuring that the Information is used only for the purposes for which Sydney Water and Dial Before You Dig intended.

4 You acknowledge that you use the Information at your own risk. In consideration for the provision of the Dial Before You Dig service and the Information by Sydney Water and Dial Before You Dig, to the fullest extent permitted by law:

(a) all conditions and guarantees concerning the Information (whether as to quality, outcome, fitness, care, skill or otherwise) expressed or implied by statute, common law, equity, trade, custom or usage or otherwise are expressly excluded and to the extent that those statutory guarantees cannot be excluded, the liability of Sydney Water and Dial Before You Dig to you is limited to either of the following as nominated by Sydney Water in its discretion, which you agree is your only remedy:

(i) the supplying of the Information again; or

(ii) payment of the cost of having the Information supplied again;

(b) in no event will Sydney Water or Dial Before You Dig be liable for, and you release Sydney Water and Dial Before You Dig from, any Loss arising from or in connection with the Information, including the use of or inability to use the Information and delay in the provision of the Information:

(i) whether arising under statute or in contract, tort or any other legal doctrine, including any negligent act, omission or default (including wilful default) by Sydney Water or Dial Before You Dig; and

(ii) regardless of whether Sydney Water or Dial Before You Dig are or ought to have been aware of, or advised of, the possibility of such loss, costs or damages;

(c) you will indemnify Sydney Water and Dial Before You Dig against any Loss arising from or in connection with Sydney Water providing incorrect or incomplete information to you in connection with the Dial Before You Dig service; and

(d) you assume all risks associated with the use of the Dial Before You Dig and Sydney Water websites, including risk to your computer, software or data being damaged by any virus, and you release and discharge Sydney Water and Dial Before You Dig from all Loss which might arise in respect of your use of the websites.

5 "**Sydney Water**" means Sydney Water Corporation and its employees, agents, representatives and contractors. "**Dial Before You Dig**" means Dial Before You Dig Incorporated and its employees, agents, representatives and contractors. References to "**you**" include references to your employees, agents, representatives, contractors and anyone else using the Information. References to "**Loss**" include any loss, cost, expense, claim, liability or damage (including arising in connection with personal injury, death or any damage to or loss of property and economic or consequential loss, lost profits, loss of revenue, loss of management time, opportunity costs or special damages). To the extent of any inconsistency, the conditions in this document will prevail over any other information provided to you by Sydney Water and Dial Before You Dig.

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

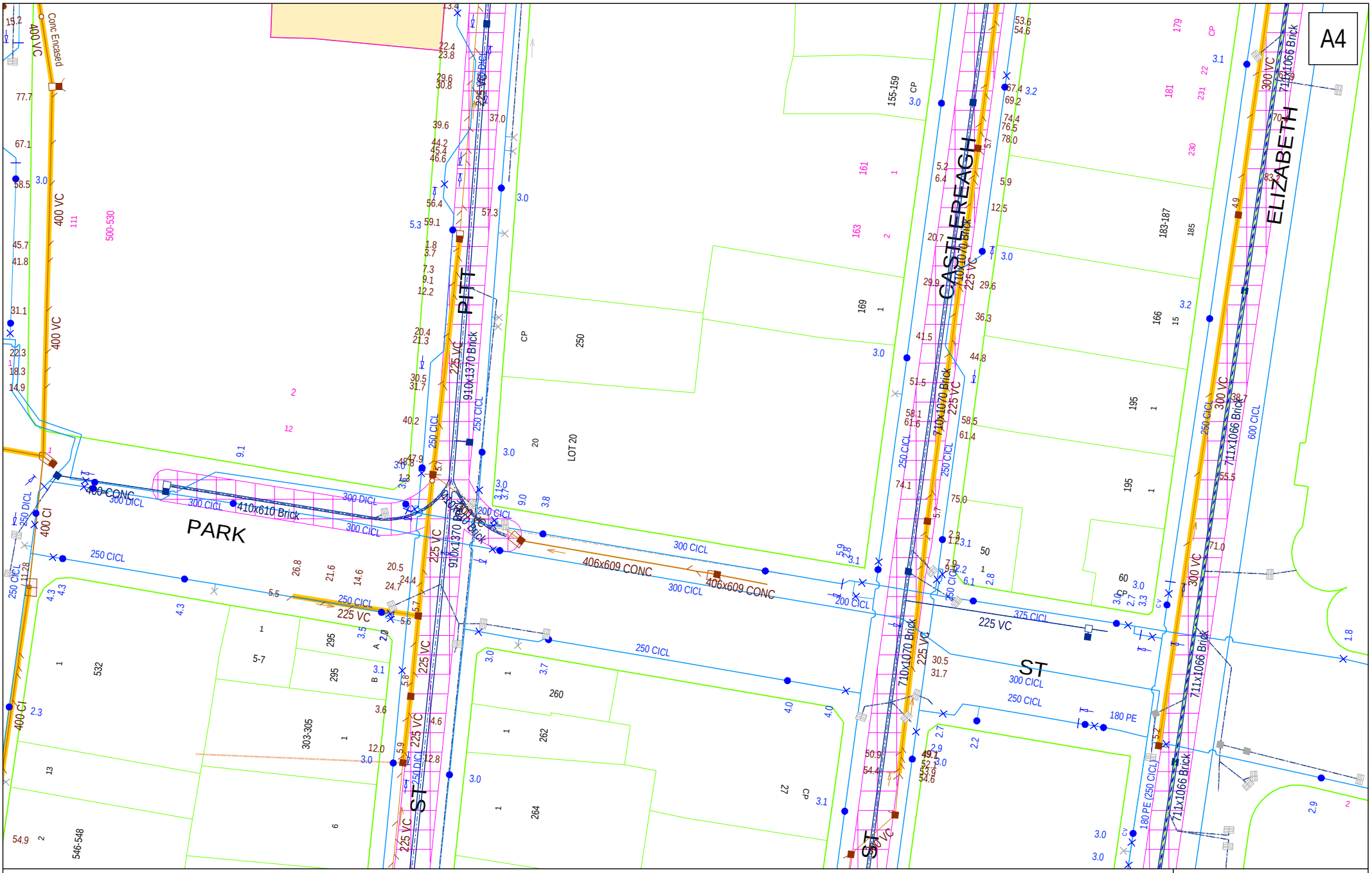
Further information and guidance is available in the Building Development and Plumbing section of Sydney Water's website at www.sydneywater.com.au, where you will find the following documents under 'Dial Before You Dig':

- Avoid Damaging Water and Sewer Pipelines
- Water Main Symbols
- Depths of Mains
- Guidelines for Building Over/Adjacent to Sydney Water Assets
- Clearances Between Underground Services

Or call **13 20 92** for Customer Enquires.

Note: The lodging of enquiries via **www.1100.com.au** will enable you to receive colour plans in PDF format 24 hours a day, 7 days a week via email.

This communication is confidential. If you are not the intended recipient, please destroy all copies immediately. Sydney Water Corporation prohibits unauthorised copying or distribution of this communication.



DBYD Address:
254 Pitt Street
Sydney NSW 2000

DBYD Job No: 18616279

DBYD Sequence No: 92397598

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No warranty is given that the information shown is complete or accurate.

SYDNEY WATER CORPORATION

Scale: 1:1000

Date of Production: 21/11/2019

Plan 1 of 1

N

0m 5m 10m 15m 20m

Guide to reading Sydney Water DBYD Plans



February 2015

Asset Information

Legend

Sewer

Sewer Main (with flow arrow & size type text) — 225 PVC
Disused Main
Rising Main
Maintenance Hole (with upstream depth to invert) — 1.7
Sub-surface chamber
Maintenance Hole with Overflow chamber
Ventshalft EDUCT — VSE
Ventshaft INDUCT — VS
Property Connection Point (with chainage to downstream MH) — 10.5
Concrete Encased Section — Concrete Encased
Terminal Maintenance Shaft — TMS
Maintenance Shaft — MS
Rodding Point — RP
Lamphole
Vertical — VERT
Pumping Station — SP0882
Sewer Rehabilitation

Pressure Sewer

Pressure Sewer Main
Pump Unit (Alarm, Electrical Cable, Pump Unit) — A
Property Valve Boundary Assembly
Stop Valve
Reducer / Taper
Flushing Point — FP

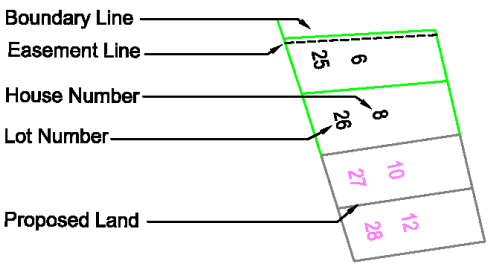
Vacuum Sewer

Pressure Sewer Main
Division Valve
Vacuum Chamber
Clean Out Point

Stormwater

Stormwater Pipe
Stormwater Channel
Stormwater Gully
Stormwater Maintenance Hole

Property Details



Sydney Water Heritage Site (please call **132 092** and ask for the **Heritage Unit**)

Water

WaterMain - Potable (with size type text) — 200 PVC
Disconnected Main - Potable
Proposed Main - Potable
Water Main - Recycled
Special Supply Conditions - Potable
Special Supply Conditions - Recycled
Restrained Joints - Potable
Restrained Joints - Recycled
Hydrant
Maintenance Hole
Stop Valve
Stop Vale with By-pass
Stop Valve with Tapers
Closed Stop Valve
Air Valve
Valve
Scour
Reducer / Taper
Vertical Bends
Reservoir
Recycled Water is shown as per Potable above. Colour as indicated

Private Mains

Potable Water Main
Recycled Water Main
Sewer Main
Symbols for Private Mains shown grey

Asset Information

Pipe Types

ABS	Acrylonitrile Butadiene Styrene	**AC**	Asbestos Cement
BRICK	Brick	**CI**	Cast Iron
CICL	Cast Iron Cement Lined	**CONC**	Concrete
COPPER	Copper	**DI**	Ductile Iron
DICL	Ductile Iron Cement (mortar) Lined	**DIPL**	Ductile Iron Polymeric Lined
EW	Earthenware	**FIBG**	Fibreglass
FL BAR	Forged Locking Bar	**GI**	Galvanised Iron
GRP	Glass Reinforced Plastics	**HDPE**	High Density Polyethylene
MS	Mild Steel	**MSCL**	Mild Steel Cement Lined
PE	Polyethylene	**PC**	Polymer Concrete
PP	Polypropylene	**PVC**	Polyvinylchloride
PVC - M	Polyvinylchloride, Modified	**PVC - O**	Polyvinylchloride, Oriented
PVC - U	Polyvinylchloride, Unplasticised	**RC**	Reinforced Concrete
RC-PL	Reinforced Concrete Plastics Lined	**S**	Steel
SCL	Steel Cement (mortar) Lined	**SCL IBL**	Steel Cement Lined Internal Bitumen Lined
SGW	Salt Glazed Ware	**SPL**	Steel Polymeric Lined
SS	Stainless Steel	**STONE**	Stone
VC	Vitrified Clay	**WI**	Wrought Iron
WS	Woodstave		

Further Information

Please consult the Dial Before You Dig enquiries page on the Sydney Water website

For general enquiries please call the Customer Contact Centre on **132 092**

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)

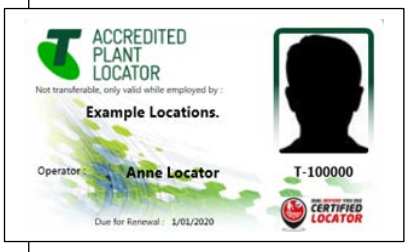
TELSTRA ACCREDITED PLANT LOCATORS

NEW SOUTH WALES - CENTRAL REGION

Location of Telstra Cables & Network – including Optic Fibre, must be performed by a locator with current Telstra Accreditation for Cable & Plant Locators. All Telstra Accredited Plant Locators have passed rigorous skills and knowledge testing by Dial Before You Dig as indicated by the DBYD Certified Locator symbol.



All Telstra Accredited Plant Locators carry an official Telstra Accreditation photo ID card – valid only while working for the business named on the card. This card will be produced on request.



Telstra plans are intended to be indicative only.
A Telstra Accredited plant location service is required to identify the exact location of the plant and ensure that the infrastructure is protected during construction or excavation work.
It is your responsibility as part of your 'Duty of Care' to engage a Telstra Accredited Plant Locator.

ONLY TELSTRA ACCREDITED PLANT LOCATORS HOLD PERMISSION TO ACCESS TELSTRA PITS & MANHOLES FOR THE PURPOSE OF CABLE & PLANT LOCATIONS.

Contact a Telstra Accredited Locator
from the pages following (FEES APPLY)

Telstra Accredited Plant Locators – New South Wales. CENTRAL

NSW Central.

Company Name & service areas	Pothole Service		
1 300 B4UDIG.	**YES** **VACUUM EXCAVATOR**	1300 248 344 admin@1300b4udig.com.au www.1300b4udig.com.au	Phone Mobile Fax Email Web
A1 Vac & Location. Port Macquarie, Laurieton, Wauchope, Kempsey, Central District, Orana District, New England Region, Nambucca, Buladelha	**YES** **HAND DIG & VACUUM EXCAVATOR**	Adam - 0404 958 023 hurricane.gale@hotmail.com	Mobile Fax Email Web
Abitek Pty Ltd.	**NO**	02 4580 9883 0413 327 243 abitek@bigpond.com	Phone Mobile Fax Email Web
ACT Locating & Inspection Services Pty Ltd. ACT QBYN & NSW	**NO**	0438 630 852 tp@actloc.com.au	Phone Mobile Fax Email Web
Action Locating. Sydney, Gosford, Newcastle, Wollongong and Blue Mountains.	**NO**	02 9671 5600 0415 228 466 info@actionlocating.com.au www.actionlocating.com.au	Phone Mobile Fax Email Web
Advanced Ground Locations Pty Ltd. Newcastle, Hunter Valley, Central Coast	**YES** **HAND DIG & VACUUM EXCAVATOR**	02 4930 3195 0412 497 488 steve_agl@hotmail.com www.advancedgroundlocations.com	Phone Mobile Fax Email Web
Aqua Freeze & Locate Pty Ltd Sydney, Blue Mountains	**Yes**	0458 774 440 service@aquafreeze.com.au www.aquafreeze.com.au	Phone Mobile Fax Email Web
Aquabend Utility Detection. Central Coast & Mid North Coast	**YES** **HAND DIG & VACUUM EXCAVATOR**	0409 925 472 aquabend@hotmail.com	Phone Mobile Fax Email Web
Asset Service Locating NSW The North West, Riverina, Central West, Sydney, Blue Mountains	**YES** **HAND DIG VACUUM EXCAVATOR**	0449 854 501 k.p.hanrahan@hotmail.com	Phone Mobile Fax Email Web
Australian Locating Services Pty Ltd. Sydney Metro, North, South, East & West Central Coast, Penrith & Blue Mountains Sutherland Shire, Illawarra & Wollongong	**YES** **VACUUM EXCAVATOR**	1300 761 545 admin@locating.com.au www.locating.com.au	Phone Mobile Fax Email Web
Australian Subsurface Pty Ltd. All of ACT & NSW	**YES** **VACUUM EXCAVATOR**	0427 879 600 admin@australiansubsurface.com www.australiansubsurface.com	Phone Mobile Fax Email Web
Australian Utilities Management Pty Ltd. Central Coast Sydney & Blue Mountains	**YES** **VACUUM EXCAVATOR**	02 9680 0738 0424 537 952 bookings@ausutilities.com.au www.ausutilities.com.au	Phone Mobile Fax Email Web
BCE Spatial Pty Ltd. WA - all areas Metro and Country NSW - all areas Metro and Country	**YES** **HAND DIG & VACUUM EXCAVATOR**	0437 217 049 0427 008 120 admin@bcespatial.com.au www.bcespatial.com.au	Mobile Mobile Fax Email Web

Telstra Accredited Plant Locators – New South Wales. CENTRAL

Bradmac Locating Services Pty Ltd. Sydney Metro, Bathurst, Lithgow, Mudgee, Mittagong, Campbelltown	**NO**	0434 157 409 brad.mac@bigpond.com	Phone Mobile Fax Email Web
Brandon Construction Services Pty Ltd. Sydney metro and surrounding districts, other country NSW areas on request	**NO**	0438 044 008 liam.bolger@hotmail.com	Phone Mobile Fax Email Web
Broken Hill Mini Excavation & Traffic Control Pty Ltd NSW The Far West, Orana, Albury VIC The Murray SA The Outback	**YES** **HAND DIG & VACUUM EXCAVATOR**	0418 117 114 bhtrafficcontrol@hotmail.com	Phone Mobile Fax Email Web
BurCo Plumbing Services Pty Ltd. Sunraysia Victoria, Swan Hill VIC, Broken Hill NSW, Wentworth NSW, Riverland SA	**YES** **VACUUM EXCAVATOR**	03 5024 7660 0428 768 241 dave@burcoplumbing.com.au www.burcoplumbing.com.au	Phone Mobile Fax Email Web
Chris Bates & Associates. Newcastle Hunter Valley Central Coast Mid North Coast	**NO**	02 4928 1519 0408 427 391 chrisbatesandassociates@yahoo.com.au	Phone Mobile Fax Email
Civilscan (Monstar Management Pty Ltd). Sydney, Blue Mountains Central Coast , Illawarra Southern Highlands	**YES** **HAND DIG & VACUUM EXCAVATOR**	0416 068 060 civilscan@bigpond.com www.civilscan.com.au	Phone Mobile Fax Email Web
Construction Sciences Pty Ltd. Australia Wide	**YES** **VACUUM EXCAVATOR**	07 3320 8572 csutilities@constructionsciences.net www.constructionsciences.nett	Phone Mobile Fax Email Web
CRUX Surveying Australia Pty Ltd. Sydney Metro and surrounding areas	**NO**	02 9541 9940 0404 850 381 scottallison@cruxsurveying.com.au www.cruxsurveying.com.au	Phone Mobile Fax Email Web
DATATEKS Pty Ltd. All regional areas	**YES** **VACUUM EXCAVATOR**	02 6971 7777 0408 693 660 gilbertcook@datateks.com.au www.datateks.com.au	Phone Mobile Fax Email Web
DEETECT Pty Ltd ACT and NSW	**NO**	02 6278 7548 0414 630 852 dtech@webone.com.au	Phone Mobile Fax Email Web
Dowds Pipe & Cable Locating. Sydney Wollongong South Coast Highlands	**NO**	0434 635 134 accounts@pipeandcable.com.au www.pipeandcable.com.au	Phone Mobile Fax Email Web
Down Under Detection Services.	**YES** **VACUUM EXCAVATOR**	0418 267 964 apegler@duds.net.au www.downunderdetections.com.au	Phone Mobile Fax Email Web
Down Under Pipeline Surveys Pty Ltd. Orangeville and surrounding districts	**YES** **VACUUM EXCAVATOR**	02 4653 1286 0418 675 374 02 4653 1747 office@dups.com.au www.dups.com.au	Phone Mobile Fax Email Web
Durkin Construction Pty Ltd. Central Coast, Sydney, Blue Mountains, Central & Far West, Riverina, North & North West, Clarence River, Coffs Harbour, Riverina, South West Slopes, Southern Tablelands, Far South Coast, Monaro, Albury ACT	**YES** **VACUUM EXCAVATOR**	02 9712 0308 0452 202 212 info@durkinconstruction.com.au www.durkinconstruction.com.au	Phone Mobile Fax Email Web

Telstra Accredited Plant Locators – New South Wales. CENTRAL

Dynamic Hydro Excavations Brisbane, Gold Coast, Toowoomba, Sunshine Coast, Northern NSW, Ballina, Sydney and surrounding districts.	**YES** **VACUUM EXCAVATOR**	07 5564 8142 0421 406 642 sales@dynamicexcavations.com.au www.dynamicexcavations.com.au	Phone Mobile Fax Email Web
Earth Radar (Vac group Operations Pty Ltd).	**YES** **VACUUM EXCAVATOR**	1300 822 835 0447 837 267 info@actionlocating.com.au www.earthradar.com.au	Phone Mobile Fax Email Web
East Coast Locating Services Maitland, Newcastle, Port Stephens, Hunter, Central Coast, Sydney	**YES** **HAND DIG**	0431 193 111 eastcoastlocating@hotmail.com	Phone Mobile Fax Email Web
Elite Locating Services NSW - Sydney, Blue Mountains, Central West, Canberra, Riverina, Southern Tablelands, South West Slopes, South Coast, Albury VIC – Melbourne, Gippsland, Highlands Great Ocean Rd	**YES** **HAND DIG**	0413 743 618 eliteloc@gmail.com	Phone Mobile Fax Email Web
Epoca Environmental. All of NSW & ACT	**YES** **VACUUM EXCAVATOR**	02 4739 2465 0430 606 948 evelyn@epocaenvironmental.com.au www.epocaenvironmental.com.au	Phone Mobile Fax Email Web
G MAC LOCATING. Dubbo, Young, Wagga, Yass, Goulburn, Bathurst, Orange, Temora, West Wyalong, Forbes & most NSW country regions	**YES** **VACUUM EXCAVATOR**	0488 520 482 0408 822 428 enquiries@gmaclocating.com.au	Mobile Mobile Fax Email Web
Geoscope Utility Detection Services Pty Ltd. Sydney Metro Blue Mountains Southern Highlands Illawarra - South Coast	**YES** **HAND DIG & VACUUM EXCAVATOR**	1300 750 350 0432 296 323 info@geoscopelocating.com.au www.geoscopelocating.com.au	Phone Mobile Fax Email Web
Geotrace Pty Ltd The Hills District, Blacktown, Bankstown, Rose Bay, Chatswood, Penrith, Blue Mountains, Hawkesbury District, Central Coast, Sutherland, Menai, Double Bay, Sydney CBD, Balmain, Richmond, Yagoona	**NO**	02 8824 6654 0417 147 945 02 8824 5637 info@geotrace.com.au www.geotrace.com.au	Phone Mobile Fax Email Web
GTE1 Pty Ltd NSW The Far West, Orana, The North, The North West VIC The Murray SA The Outback, Flinders Ranges	**YES** **HAND DIG & VACUUM EXCAVATOR**	0438 688 443 office@gte.net.au	Phone Mobile Fax Email Web
Hunter Ground Search. Newcastle, Upper & Lower Hunter Valley, Central Coast, Central West, Mid North Coast	**YES** **VACUUM EXCAVATOR**	02 4953 1244 0418 684 819 02 4953 1233 huntergroundsearch@bigpond.com	Phone Mobile Fax Email Web
Hydro Digga. All of NSW, ACT & South East Qld.	**YES** **VACUUM EXCAVATOR**	0447 774 000 locator@hydrodigga.com	Phone Mobile Fax Email Web
K & K Directional Drilling. Tamworth, Gunnedah, Narrabri, Quirindi, Armidale, North & North West NSW all areas	**YES** **VACUUM EXCAVATOR**	02 6760 9917 0429 087 657 kkdrilling@bigpond.com	Phone Mobile Fax Email Web
Landmark Surveys Pty Ltd. Southern NSW and ACT areas	**YES** **HAND DIG & VACUUM EXCAVATOR**	02 6280 9608 0413 832 038 phi@landmarksurveys.com.au www.landmarksurveys.com.au	Phone Mobile Fax Email Web
LandPartners Pty Ltd NSW Central Northern NSW South East Queensland	**NO**	07 3842 1000 0439 488 545 (Roland) locators@landpartners.com.au www.landpartners.com.au	Phone Mobile Fax Email Web

Telstra Accredited Plant Locators – New South Wales. CENTRAL

Laneyrie Electrical Pty Ltd. Helensburg, Illawarra, Shoalhaven. South coast, Southern Tablelands, Far South coast, Wollongong	**YES** **VACUUM EXCAVATOR**	02 4237 9865 0412 079 079 0413 048 048 bindy@laneyrieelectrical.com.au www.laneyrieelectrical.com.au	Phone Mobile Mobile Email Web
Locate & Map Pty Ltd. Sydney, Wollongong and the Central Coast	**NO**	0431 191 669 tim@locateandmap.com.au www.locateandmap.com.au	Phone Mobile Fax Email Web
Locate the Pipes VIC - The Murray, The High Country, Melbourne NSW/ACT - Jervis Bay, Riverina, South West Slopes, Far South Coast, Albury, Canberra	**YES**	0423 111 925 hayden@locatethepipes.com.au	Phone Mobile Fax Email Web
Locaters Pty Ltd. Sydney, Penrith, Richmond, Macarthur, Wollongong	**YES** **VACUUM EXCAVATOR**	02 8214 8911 info@locators.com.au www.locators.com.au	Phone Mobile Fax Email Web
Locating Services Pty Ltd. Hawkesbury and all of NSW	**NO**	0403 065 510 sam.romano@locatingservices.com.au www.locatingservices.com	Phone Mobile Fax Email Web
Lyntet Communications (Lynco Pty Ltd). Dubbo depot, covering Forbes, Grenfell, Parkes, Bourke, Bourke North, Nyngan, Coonabarabran, Coonamble, Mudgee, Narromine, Wellington, Orange, Molong, Yeoval, Coolah, Dunedoo, Gilgandra, Mendooran	**YES** **HAND DIG & VACUUM EXCAVATOR**	0409 811 673 lyntet@bigpond.com.au	Phone Mobile Fax Email Web
MB Electrical (Mathew Barratt Electrical Pty Ltd). Far West NSW - Broken Hill, Menindee, Wilcannia, Tibooburra, Ivanhoe & surrounding areas	**YES** **VACUUM EXCAVATOR**	08 8088 7933 accounts@mbelectrical.net.au www.mbelectrical.net.au	Phone Mobile Fax Email Web
Meek Design & Construction Pty Ltd. Bathurst, Orange, Lithgow, Oberon, Mudgee and surrounding areas.	**YES** **VACUUM EXCAVATOR**	0419 633 483 ron@meekdesign.com.au	Phone Mobile Fax Email Web
Mr Mac Group. Lithgow, Mudgee, Bathurst, Wellington, Goulburn	**YES** **VACUUM EXCAVATOR**	0447 818 260 jon@mrmacgroup.com.au	Phone Mobile Fax Email Web
Mullane Maintenance Pty Ltd. Newcastle and Hunter Region, Central Coast, Mid-North Coast	**NO**	1300 608 999 02 4960 8933 maintenance@mullane.com.au www.mullane.com.au	Phone Mobile Fax Email Web
Newcastle Locating Services Pty Ltd. Sydney, Central Coast, Hunter Valley, Upper Hunter Valley, Port Stephens, Muswellbrook, Singleton, Slone, Gunnedah, Port Macquarie	**YES** **VACUUM EXCAVATOR**	0410 698 599 undergroundservices@bigpond.com.au www.newcastlelocatingservices.com.au	Phone Mobile Fax Email Web
On Point Utility Locating Pty Ltd. Sydney, Parramatta, Penrith, Wollongong, Central Coast, Highlands, Goulburn, Blue Mountains	**YES** **VACUUM EXCAVATOR**	1300 667 646 0499 990 478 info@onpointlocating.com.au www.onpointlocating.com.au	Phone Mobile Fax Email Web
One Search Locators Pty Ltd. QLD NSW ACT	**YES** **VACUUM EXCAVATOR**	1300 530 420 0499 955 571 info@onesearchlocators.com.au www.onesearchlocators.com.au	Phone Mobile Fax Email Web
Online Pipe & Cable Locating Pty Ltd. Sydney, Newcastle, Canberra, Central Coast, Wollongong, Blue Mountains and Port Macquarie	**YES** **VACUUM EXCAVATOR**	1300 665 384 0418 402 234 02 9676 6127 office@onlinepipe.com.au www.onlinepipe.com.au	Phone Mobile Fax Email Web

Telstra Accredited Plant Locators – New South Wales. CENTRAL

Peter Ellsmore and Associates. Wollongong / Illawarra / Shoalhaven / Far South Coast / Southern Highlands & Tablelands / Wollondilly / Goulburn / Macarthur area / Campbelltown & Southern Sydney	**NO**	02 4253 5616 0439 423 708 02 4253 5660 ian.brown@ellsmore.com.au www.ellsmore.com.au	Phone Mobile Fax Email Web
Pipesure Australia Pty Ltd. Sydney and surrounding areas	**NO**	1300 411 811 0428 548 281 info@pipesure.com.au www.pipesure.com.au	Phone Mobile Fax Email Web
Riteway Traffic control Pty Ltd. Central Coast Upper Hunter	**NO**	0419 212 969 kbrowne@ritewaytc.com.au	Phone Mobile Fax Email Web
RL Underground Pty Ltd WA - Perth and Peel, VIC - Melbourne, NSW - Sydney	**YES** **VACUUM EXCAVATOR**	08 6189 1211 0418 774 646 0447 933 707 andrew.hunt@rlunderground.com.au	Phone Mobile Mobile Email Web
RPS Australia East Pty Ltd. South East Qld, Gold Coast, Sunshine Coast, Brisbane, Ipswich & Scenic Rim Sydney & surrounding areas	**YES** **VACUUM EXCAVATOR**	07 3539 9586 0408 839 723 andrew.watson@rpsgroup.com.au www.rpsgroup.com.au	Phone Mobile Fax Email Web
Rubicof Pty Ltd. Lower & Upper Hunter Valley Central Coast & Newcastle Port Stephens & Great Lakes areas	**YES** **VACUUM EXCAVATOR**	02 4990 5718 0418 103 369 rubicof@optusnet.com.au www.rubicof.com.au	Phone Mobile Fax Email Web
Rutherford Electrical Engineering Services. Hunter Valley Maitland Newcastle Central Coast	**NO**	02 4932 7344 office@ruthelect.com.au www.ruthelect.com.au	Phone Mobile Fax Email Web
Smartscan Locators Pty Ltd Greater Sydney Metro Area Central Coast & Newcastle Blue Mountains	**YES** **Hand Dig**	0498 025 210 jason@sslocators.com.au smartscanlocators.com.au	Phone Mobile Fax Email Web
SEEK LOCATIONS. Taree, Forster, Gloucestor, Hardington, Port Macquarie, Wauchope.	**NO**	0407 256 858 seek@seeklocations.com.au www.seeklocations.com.au	Phone Mobile Fax Email Web
Service Locator SA (Geolaird Pty Ltd) NSW -The Far West NT - Alice Springs and Uluru SA - The Outback, Flinders Ranges, Eyre Peninsula, Yorke Peninsula, The Murray	**YES**	0477 296 932 leon@servicelocatorsa.com.au	Mobile Fax Email Web
Signal Support Services Pty Ltd. Goulburn, Southern Tablelands, South West Slopes, Central West, Far South Coast & Monaro, Riverina, Far West	**YES** **VACUUM EXCAVATOR**	0418 237 668 ted@signalsupport.com.au	Phone Mobile Fax Email Web
Subsurface Utility Solutions Pty Ltd Sydney, Blue Mountains, Southern Tablelands	**YES**	0421 157 372 nick@subsurf.com.au www.subsurf.com.au	Phone Mobile Mobile Email Web
Suk Truk Services Pty Ltd. Newcastle, Upper Hunter Valley, Lower Hunter Valley, Central Coast, Lake Macquarie	**YES** **HAND DIG & VACUUM EXCAVATOR**	0419 125 551 suktrukservices@bigpond.com	Phone Mobile Fax Email Web
SureSearch (Utility Locating Pty Ltd). Sydney, Newcastle, Central & South Coasts, Raymond Terrace, Wollongong, Gosford, Tuggerah, Seven Hills, Port Stephens, Nowra, Picton, Blue Mountains, Lithgow, Narrabeen, Pymble, Muswellbrook, Forster	**YES** **VACUUM EXCAVATOR**	1300 884 520 schedule@suresearch.com.au www.suresearch.com.au	Phone Mobile Fax Email Web

Telstra Accredited Plant Locators – New South Wales. CENTRAL

Sydney Pipe & Cable Pty Ltd. Greater Sydney Basin - Wollongong, Blue Mountains, Nowra, Newcastle	**NO**	0416 215 667 glenn@spacls.com.au	Phone Mobile Fax Email Web
The Control Group Pty Ltd NSW North, NSW North West, NSW Far North, NSW Clarence River, NSW Coffs Harbour	**YES**	0421 960 017 locating@thecontrolgroup.com.au www.thecontrolgroup.com.au	Phone Mobile Mobile Email Web
Utec Solutions Pty Ltd. NSW based covers Queensland and Victoria also	**YES** **VACUUM EXCAVATOR**	02 9389 0040 0439 994 881 tim@utecsolutions.com.au www.utecsolutions.com.au	Phone Mobile Fax Email Web
Utility ID – Underground Service and Cable Locators. Darling Downs South West Toowoomba Roma	**NO**	0401 202 515 info@utilityid.com.au www.utilityid.com.au	Phone Mobile Fax Email Web
Utility Locating Services. Sydney and surrounding regions	**YES** **VACUUM EXCAVATOR**	0404 087 555 mail@utilitylocatingservices.com.au www.utilitylocatingservices.com.au	Phone Mobile Fax Email Web
Utility Mapping (Aust) Pty Ltd. Sydney and surrounding areas	**YES** **VACUUM EXCAVATOR**	1300 MAPPING (627746) sydney@utilitymapping.com.au www.utilitymapping.com.au	Phone Mobile Fax Email Web
Utility Scan. All areas	**YES** **HAND DIG**	0426 354 051 brett@utilityscan.net	Phone Mobile Fax Email Web
VERIS AUSTRALIA PTY LTD Australia wide ACT NSW QLD NT SA TAS VIC WA	**YES**	1300 765 315 0419 770 560 0436 122 753 l.mead@veris.com.au www.veris.com.au	Phone Mobile Mobile Email Web
Vertex Power & Process. Western NSW - Broken Hill, Silverton, Menindee, Wilcannia, Ivanhoe, Tibooburra SA border - Cockburn, Yunta	**YES** **VACUUM EXCAVATOR**	08 8088 4301 0428 154 450 08 8087 5729 service@vertexpp.com.au www.vertexpp.com.au	Phone Mobile Fax Email Web
Wagga Directional Drilling. Riverina & surrounds	**YES** **VACUUM EXCAVATOR**	02 6925 4660 0418 473 104 02 6925 4941 sidpowell.wdd@telstra.com	Phone Mobile Fax Email Web

DUTY OF CARE

IT'S HOW WE CONNECT

TELSTRA CORPORATION ACN 051 775 556

IMPORTANT:

When working in the vicinity of telecommunications plant you have a "Duty of Care" that must be observed. Please read and understand all the information and disclaimers provided below.

Telstra network is complex and requires expert knowledge to interpret information, to identify and locate components, to pothole underground assets for validation and to safely work around assets without causing damage. If you are not an expert and/or qualified in these areas, then you must not attempt these activities. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers. The 5 P's to prevent damage to Telstra assets are listed below. Construction activities and/or any activities that potentially may impact on Telstra's assets must not commence without first undertaking these steps. Construction activities can include anything that involves breaking ground, potentially affecting Telstra assets.

If you are designing a project it is recommended that you also undertake these steps to validate underground assets prior to committing to your design.

(The following pages contain more detail on each step below and the contact details to seek further advice. AS5488-2013 is the Australian Standard for the Classification of Subsurface Utility Information.)

1 PLAN:

The essential first step in preventing damage -
You must have current Telstra plans via the DBYD process. Telstra advises that the accuracy of the information provided by Telstra conforms to Quality Level D as defined in AS5488-2013. This means the information is indicative only, not a precise location. **The actual location may differ substantially from that shown on the plans** - refer to steps 2 & 3 to determine actual location prior to proceeding with construction.

2 PREPARE:

The essential second step in preventing damage -
Engage a Telstra Accredited Plant Locator. To be able to trace and identify individual subsurface cables and ducts requires access to Telstra pits and manholes. Only a Telstra Accredited Plant Locator (TAPL) is authorised to access Telstra network for locating purposes. A TAPL can interpret plans, validate visible assets and access pits and manholes to undertake electronic detection of underground assets prior to further validation. All Telstra assets must be located, validated and protected prior to commencing construction. If you are not authorised to do so by Telstra, you must not access Telstra network or locate Telstra network. All Telstra Accredited Plant Locators are required to have DBYD Locator Certification.

3 POTHOLE:

The essential third step in preventing damage -
All Telstra assets must be positively identified (i.e. validated), by physically sighting them. For underground assets this can be done by potholing by hand or using non-destructive vacuum extraction methods (Refer to 'validation' as defined in AS5488-2013 QL-A). **Underground assets located by electronic detection alone (step 2), are not deemed to be 'validated' and must not be used for construction purposes.** Some TAPL's can assist with non-destructive potholing for validation purposes. **If you cannot validate the Telstra network, you must not proceed with construction**. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

4 PROTECT:

The essential fourth step in preventing damage -
Telstra assets must be protected to avoid damage from construction activities. Minimum working distances around Telstra network must be maintained. These distances are provided in this document. Telstra can also provide advice and assistance in regards to protection – refer to the following pages.

5 PROCEED:

Only proceed when the above steps have been completed.

STEP 1 - PLAN
Dial Before You Dig / Telstra Plans

The actual location of Telstra assets may differ substantially from that shown on the plans. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for the accuracy shown on the plans. Steps 2 and 3 must also be undertaken to determine actual location of network.

- Telstra DBYD plans are not suitable for displaying Telstra network within a Telstra exchange site. For advice on Telstra network within a Telstra exchange site contact Telstra Plan Service on 1800 653 935.
- Telstra owns and retains the copyright in all plans and details provided in conjunction with the applicant's request. The applicant is authorised to use the plans and details only for the purpose indicated in the applicant's request. The applicant must not use the plans or details for any other purpose.
- Telstra plans or other details are provided only for the use of the applicant, its servants, agents or Telstra Accredited Plant Locators. The applicant must not give the plans or details to any parties other than these, and must not generate profit from commercialising the plans or details.
- Please contact Telstra Plan Services immediately should you locate Telstra assets not indicated on these plans.
- Telstra, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of plans and or details so supplied to the applicant, its servants and agents, and the applicant agrees to indemnify Telstra against any claim or demand for any such loss or damage.
- Please ensure Telstra plans and information provided remains on-site at all times throughout the inspection, location and construction phase of any works.
- Telstra plans are valid for 60 days after issue and must be replaced if required after the 60 days.

- **Emergency situations - receiving Telstra plans** Telstra's automated mapping system (TAMS) will provide a fast response for emergency situations (faster than an operator can provide manually via a phone call - see below for fast response requirements). Automated responses are normally available 24/7.

  To receive a fast automated response from Telstra your request must **-**

  - Be a web request lodged at DBYD (**www.1100.com.au**). The request will be then forwarded to Telstra.
  - Contain your current email address so you can receive the automated email response.
  - Be for the purposes of 'mechanical excavation' or other ground breaking DBYD activity. (Requests with activity types such as conveyancing, planning & design or other non-digging activities may not be responded to until the next business day).
  - Be for an area less than 350 metres in size to obtain a PDF map (over 350 metres will default to DWF due to size) this does not include congested CBD areas where only DWF may be supplied.
  - Be for an area less than 2500 metres in size to obtain a DWF map (CBD's less)

- **Data Extraction Fees.** In some instances a data extraction fee may be applicable for the supply of Telstra information. Typically a data extraction fee may apply to large projects, planning and design requests or requests to be supplied in non-standard formats. For further details contact Telstra Plan Services.

- **Electronic plans - PDF and DWF maps** If you have received Telstra maps via email you will have received the maps as either a PDF file (for smaller areas) or DWF file (for larger area requests). All requests over approximately *350m or in congested CBD areas can only be supplied in DWF format. There are size limits on what can be provided. (* actual size depends on geographic location of requested area). If you are unable to launch any one of the softcopy files for viewing and printing, you may need to download and install one or more of the free viewing and printing products such as Adobe Acrobat Reader (for PDF files) or Autodesk Design Review (for DWF files) available from the internet

  - **Pdf files -** PDF is the default softcopy format for all requests for areas up to approx *350m in length. (*depends on geographic location of request). The PDF file is nominally formatted to A3 portrait sheet however it can be printed on any size sheet that your printer supports, e.g. either as the full sheet or selected areas to suit needs and legibility. (to print a selected area zoom up and print 'current view') If there are multiple layers of Telstra network you may receive up to 2 sheets in the single PDF file attachment supplied. There are three types or layers of network normally recorded - local network, mains cables or a combined layer of local and mains (usually displayed for rural or semi-rural areas). If mains cable network is present in addition to local cables (i.e. as separate layer in a particular area), the mains will be shown on a separate sheet. The mains cable information should be read in conjunction with the local cable information.

- **DWF files –** DWF is the default softcopy format for all requests for areas that are over 350m in length. Maximum length for a DWF automated response is approx 2500m - depending on geographic location of request (manually-processed plans may provide larger coverage). The DWF files differ from PDF in that DWF are vector files made up of layers that can be turned on or off and are not formatted to a specific sheet size. This makes them ideal for larger areas and for transmitting electronically.
    - ***How to view Telstra DWF files –***
      Telstra DWF files come with all layers turned on. You may need to turn individual layers on or off for viewing and printing clarity. Individual layer names are CC (main cable/conduit), DA (distribution area network) and sometimes a combined layer - CAC. Layer details can be viewed by either picking off the side menu or by selecting 'window' then 'layers' off the top menu bar. Use 'layers' to turn individual layers off or on (double click or right click on layer icon).
    - ***How to print Telstra DWF files –***
      DWF files can be printed on any size sheet – either their entirety or by selected areas of interest. Some DWF coverage areas are large and are not suited to printing legibly on a single A4 sheet - you may need several prints if you only have an A4 printer. Alternatively, an A3, A1 or larger printer could be used. To print, zoom in or out and then, by changing the 'print range' settings, you can print what is displayed on your screen to suit your paper size. If you only have a small printer, e.g. A4, you may need to zoom until the text is legible for printing (which is why you may need several prints). To print what is displayed on your screen the 'view' setting should be changed from 'full page' to 'current view'. The 'current sheet' setting should also be selected. You may need to print layers separately for clarity and legibility. (Details above on how to turn layers on or off)
    - ***How to change the background colour from white to black (when viewing) Telstra DWF files –***
      If using Autodesk Design Review the background colour can be changed by selecting 'Tools' then 'options' then 'sheet'. Tick the box 'override published paper colours' and select the colour required using the tab provided.

STEP 2 – PREPARE
Telstra Accredited Plant Locator (TAPL):

Utilising a TAPL is an essential part of the process to identify network and to trace subsurface network prior to validating. A TAPL can provide plan interpretation, identification and electronic detection. This will assist in determining the position of subsurface assets prior to potholing (validating). Some TAPL's can also assist in validating underground detected network. Electronic detection is only an indication of the existence of underground network and can be subject to interference from other services and local conditions. Electronic detection must not be used solely to determine location for construction purposes. The electronic (indicative) subsurface measurements must be proven by physically sighting the asset (see step 3 – Pothole).

- All TAPL's locating Telstra network must be able to produce a current photo ID card issued by Telstra. A list of TAPL's is provided with the Telstra Dial Before You Dig plans.
- All TAPL's in addition to the Telstra photo ID card must also have current DBYD Locator Certification with ID card.
- Telstra does not permit external parties (non-Telstra) to access or conduct work on Telstra network. Only Telstra staff, Telstra contractors or locators whom are correctly accredited are authorised to work on or access Telstra manholes, pits, ducts, cables etc. This is for safety as well as for legal reasons.
- The details of any contract, agreement or retainer for site assistance to locate telecommunications plant shall be for you to decide and agree with the Telstra Accredited Plant Locator engaged. Telstra is not a party to any contract entered into between you and a Telstra Accredited Plant Locator.
- Payment for the site assistance will be your responsibility and payment details must be agreed before the engagement is confirmed.
- Telstra does not accept any liability or responsibility for the performance of or advice given by a Telstra Accredited Plant Locator. Accreditation is an initiative taken by Telstra towards the establishment and

maintenance of competency standards. However, performance and the advice given will always depend on the nature of the individual engagement.

- Neither the Telstra Accredited Plant Locator nor any of its employees are an employee or agent for Telstra. Telstra is not liable for any damage or loss caused by the Telstra Accredited Plant Locator or its employees.

- **Electronically derived subsurface measurements (e.g. depths/alignments by locating devices)**

  All locator provided measurements for Telstra assets must have the AS5488-2013 quality level specified - (e.g. QL-A, B, C or D). These quality levels define the accuracy of subsurface information and are critical for determining how the information is later used – for example if suitable for excavation purposes.

  1) ***An example of a subsurface measurement with no quality level specified – (i.e. not to be used)***

     Telstra cover - **0.9m**

     *The measurement above has no AS5488-2013 quality level specified and **must not** be provided by a locator or used for design or construction. This is because it is not known whether the measurement is actual or derived (where 'actual' means validated and 'derived' means assumed and not validated, e.g. electronic or other). Typically damages occur by constructors incorrectly using unvalidated measurements as actual measurements.*

  2) ***An example of a subsurface measurement with quality level B specified –***

     Telstra cover - **0.9m** (QL-B)

     Where (QL-B) complies with AS5488-2013 QL-B (for example an electronic location that complies with QL-B)

     (Note QL-B means it has not been validated and must not be used for construction purposes around Telstra network, however it would assist further investigation to determine the actual location)

  3) ***An example of a subsurface measurement with the quality level A specified –***

     Telstra cover - **0.6m** (QL-A)

     Where (QL-A) complies with AS5488-2013 QL-A (and is deemed suitable for excavation purposes). *In this example the asset has been electronically located first, (QL-B) and then physically exposed (QL-A).*

     Note -Telstra will seek compensation for damages caused to it its property and losses caused to Telstra and its customers if unvalidated subsurface measurements are used for construction and subsequently result in damage to Telstra assets. Only measurements conforming to AS5488-2013 (QL-A) are deemed by Telstra to be validated measurements.

- **Rural landowners - Rural Locations Subsidy Scheme** Where Telstra-owned cable crosses agricultural land, Telstra may provide on-site assistance with cable location. **You must contact Telstra Plan Services to determine eligibility and to request the service**.

  Please note the following –

  - If eligible, the location assistance must be approved and organised by Telstra. Telstra will not pay for a location that has not been approved and facilitated by Telstra (Telstra is not responsible for payment assistance when a customer engages a locator directly).
  - Telstra will only "subsidise" the location up to $330 (Incl. GST). This will cover one hour on-site location only, private lead-in locations are for lead-ins 100m or longer. Any time required in addition to Telstra-funded time can be purchased directly from the assigned Telstra Accredited Plant Locator.
  - This service does NOT include the use Mechanical Aids or Hydro Excavation (Vac Trucks) to locate and should be discussed between the Accredited Plant Locator and the private rural landowner
  - The exact location, including depth of cables**,** must be validated by potholing, which may not be covered by this service.
  - This service is nominally only available to assist private rural land owners.
  - This service nominally covers one hour on-site only, private lead-in locations are for lead-ins 100m or longer. Any time required in addition to Telstra-funded time can be purchased directly from the assigned Telstra Accredited Plant Locator.
  - This service does not apply to previously located network at the same location (i.e. it is a once off).
  - This service does not apply to other carriers' cables (marked as 'OC' on Telstra plans).

STEP 3 – POTHOLE

Validation as defined in AS5488-2013 (QL-A).

After utilising a Telstra Accredited Plant Locator and prior to commencing construction, any electronically detected underground network must be positively identified (validated) by physically sighting it. This can be done by careful hand digging or using non-destructive water jet methods to expose the network.

Manual potholing needs to be undertaken with extreme care and by employing techniques least likely to damage cables. For example, align shovel blades and trowels parallel to the cable rather than digging across the cable. Some Telstra Accredited Plant Locators are able to provide or assist with non-destructive potholing methods to enable validation of underground cables and ducts.

If you cannot validate the underground network then you must not proceed with construction. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Important note: *The construction of Telstra's network dates back over many years. Some of Telstra's pits and ducts were manufactured from asbestos-containing cement. You must take care in conducting any works in the vicinity of Telstra's pits and ducts. You must refrain from in any way disturbing or damaging Telstra's network infrastructure when conducting your works. We recommend that before you conduct any works in the vicinity of Telstra infrastructure that you ensure your processes and procedures eliminate any possibility of disturbing, damaging or interfering in any way with Telstra's infrastructure. Your processes and procedures should incorporate appropriate measures having regard to the nature of this risk. For further information -*

http://ucm.in.telstra.com.au/about/media/emergencies-incidents/asbestos/index.htm?ssSourceSiteId=consumer-advice

STEP 4 – Protect:

You must maintain the following minimum clearance distances between construction activity and the validated position of Telstra plant.

Jackhammers/Pneumatic Breakers	*Not within 1.0m of **actual validated location.***
Vibrating Plate or Wacker Packer Compactor	*Not within 0.5m of **actual validated location** of Telstra ducts.* *300mm compact clearance cover before compactor can be used across Telstra ducts.*
Boring Equipment (in-line, horizontal and vertical)	*Not within 2.0m of **actual validated location**.* *Constructor to hand dig or use non-destructive water jet method (pothole) and expose plant.*
Heavy Vehicle Traffic (over 3 tonnes)	*Not to be driven across Telstra ducts (or plant) with less than 600mm cover.* *Constructor to check actual depth via hand digging.*
Mechanical Excavators, Farm ploughing and Tree Removal	*Not within 1.0m of **actual validated location.*** *Constructor to hand dig or use non-destructive water jet method (pot-hole) and expose plant.*

- For blasting or controlled fire burning please contact Telstra Plan Services.
- If conducting roadworks all existing Telstra pits and manholes must be a minimum of 1.2m in from the back of kerb after the completion of your work.
- After the completion of any ground work in footways or roadway whereby the existing levels are being changed the depth of cover of the existing Telstra asset at the completion of work must not be less than the existing level before work commenced.

Regardless of whether the surface is being raised or lowered, any work impacting the depth of cover of Telstra underground assets should not commence before consultation with Telstra Network Integrity representatives, to discuss the possibility of '*protection*' or relocation (including lowering of the asset)".

- For clearance distances relating to Telstra pillars, cabinets and RIMs/RCMs please contact Telstra Plan Services.

- If Telstra plant is situated wholly or partly where you plan to work (i.e. in conflict, where a pit or manhole would be in a driveway or other vehicle thoroughfare), then Telstra's Network Integrity Group must be contacted to discuss possible engineering solutions to protect Telstra assets.
  Please phone **1800 810 443** or email NetworkIntegrity@team.telstra.com

- You are not permitted to relocate or alter or repair any Telstra assets or network under any circumstances.

  It is a criminal offence under the *Criminal Code Act 1995* (Cth) to tamper or interfere with communication facilities owned by a carrier. Heavy penalties may apply for breach of this prohibition, and any damages suffered, or costs incurred by Telstra as a result of any such unauthorised works may be claimed against you.

  Only Telstra and its contractors may access and conduct works on Telstra's network (including its plant and assets). This requirement is to ensure that Telstra can protect the integrity of its network, avoid disruption to services and ensure that the relocation meets Telstra's requirements.

- If Telstra relocation or protection works are part of the agreed solution, then payment to Telstra for the cost of this work shall be the responsibility of the principal developer, constructor or person for whom the work is performed. The principal developer or constructor will be required to provide Telstra with the details of their proposed work showing how Telstra's plant is to be accommodated and these details must be approved by the Regional Network Integrity Manager prior to the commencement of site works.
  Please phone 1800 810 443 or email NetworkIntegrity@team.telstra.com
  Further information -
  https://www.telstra.com.au/consumer-advice/digging-construction/relocating-network-assets

  Damage to Telstra's network must be reported immediately -
  https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment

- You will be held responsible for all plant damage that occurs or any impacts to Telstra's network as a result of your construction activities. This includes interfering with plant, conducting unauthorised modification works and interfering with Telstra's assets in a way that prevents Telstra from accessing or using its assets in the future.

- Telstra reserves all rights to recover compensation for loss or damage to its cable network or other property including consequential losses.

FURTHER INFORMATION - CONTACTS

NATURAL DISASTERS

Natural Disasters include (amongst other things) earthquakes, cyclones, floods and tsunamis.
In the case of such events, urgent requests for plans or information relating to the location of Telstra network can be made directly to Telstra Network Integrity Team Managers as follows:

NSW –	John McInerney	0419 485 795
NT/WA/QLD –	Glenn Swift	0419 660 147
SA/VIC/TAS -	David Povazan	0417 300 947

TELSTRA PLAN SERVICES **-** for all Telstra Dial Before You Dig related enquiries

Email - **Telstra.Plans@team.telstra.com**

Phone - 1800 653 935 (general enquiries, business hours only)

Accredited plant locator enquiries -	Anna	(07)34552974
	Glen	(07)34551011
Telstra easements -	Glen	(07)34551011

***Please note** - to make a Telstra plan enquiry the plans must be current (within 60 days of issue). If your plans have expired you will need to submit a new request via DBYD prior to contacting Telstra Plan Services.*

Information for new developments (developers, builders, home owners)
Telstra Smart Communities - https://www.telstra.com.au/smart-community

Asset relocations
Please phone 1800 810 443 or email NetworkIntegrity@team.telstra.com

https://www.telstra.com.au/consumer-advice/digging-construction/relocating-network-assets

Telstra offers free Cable Awareness Presentations, if you believe you or your company would benefit from this offer please contact Network Integrity on 1800 810 443 or NetworkIntegrity@team.telstra.com

PRIVACY NOTE

Your information has been provided to Telstra by DBYD to enable Telstra to respond to your DBYD request. Telstra keeps your information in accordance with its privacy statement entitled "Protecting Your Privacy" which can be obtained from Telstra either by calling 1800 039 059 or visiting our website at www.telstra.com.au/privacy

LEGEND

IT'S HOW WE CONNECT

For more info contact a Telstra Accredited Locater or Telstra Plan Services 1800 653 935

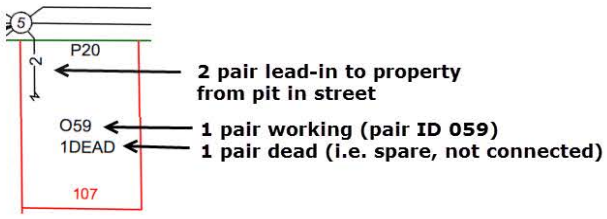
Exchange
(major cable present)

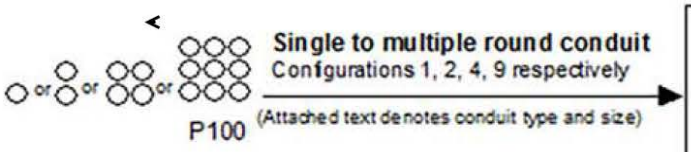
Footway access chamber
(can vary from 1-lid to 12-lid)

or **Pillar/cabinet**
(above the ground / free standing)

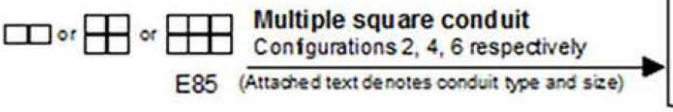
Above ground complex equipment housing (eg RIM)
Please Note: This equipment is powered by 240V electricity.

OC **other carrier**





Single to multiple round conduit
Configurations 1, 2, 4, 9 respectively
(Attached text denotes conduit type and size)



Multiple square conduit
Configurations 2, 4, 6 respectively
(Attached text denotes conduit type and size)

Some examples of conduit type and size:
A - Asbestos cement, P - PVC / plastic, C - Concrete, GI - Galvanised iron, E - Earthenware.
Conduit sizes *nominally* range from 20mm to 100mm.

P50	50mm PVC conduit
P100	100mm PVC conduit
A100	100mm asbestos cement conduit
E 85	85mm square earthenware conduit

Cable jointing pit
(number indicating pit type)

Elevated cable joint
(above ground joint on buried cable)

Telstra Plant in shared utility trench

Aerial Cable
(above ground)

Aerial Cable
(attached to joint use pole e.g. power)

Direct buried cable

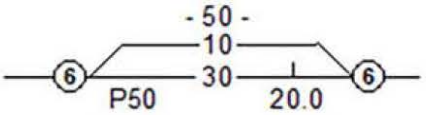
M **Marker post installed**

TR **Buried transponder**

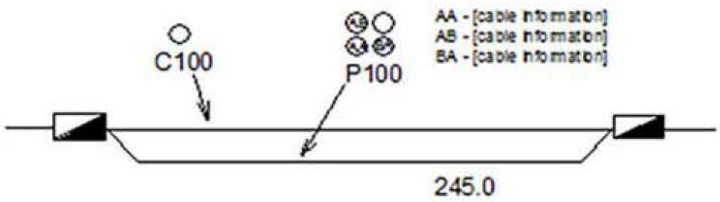
MT **Marker, transponder**

SMOF **Optical fibre cable direct buried**

Some examples of how to read Telstra plans:



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits, 20.0m apart, with a direct buried 30-pair cable along the same route.



Two separate conduit runs between two footway access chambers (manholes) 245m apart. A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along the same route.

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Dial Before You Dig Response Cover Letter

Transurban CCT Pty Limited (CCT)

1 Chifley Square

Sydney, NSW 2000

Australia

Date: 21/11/2019

To:
Ms Yiqing Kong
LCI
Level 4 73 Walker St
North Sydney NSW 2060

The records of Transurban CCT Pty Limited **(CCT**) disclose that your defined search location is within the vicinity of **Cross City Tunnel Motorway (CCT)**. Please do not commence excavation, digging or other groundworks (**works**) until you have discussed the proposed works with CCT and CCT has confirmed in writing that it has no objection to the works being carried out. Please also note that any works will be carried out at your risk and you will be liable for any loss or damage caused by the works (including to the Motorway) in accordance with law.

Please contact the CCT asset manager via cctassetmanager@transurban.com, and attach the following information regarding your enquiry, and briefly describe the proposed works at the defined search location.

Sequence No: 92397603

Job No: 18616279

Location: 254 Pitt Street
Sydney NSW 2000

Important Notice: You must contact the CCT asset manager with the allocated Sequence Number and Job Number as well as a brief description of the proposed works as soon as you received this response. Groundworks should not proceed until the query is closed and works cannot be commenced until a confirmation of work commencement in writing is issued by the CCT. Please ensure that the Dial Before You Dig enquiry details accurately reflect your proposed works at the defined search location.

This response is intended for use only by the addressee. If you have received the enquiry response in error, please contact the CCT at the email address above and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.

DIAL BEFORE YOU DIG www.1100.com.au
The Essential First Step.

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Transurban or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

verizon

PLEASE HAND TO ADDRESSEE IMMEDIATELY

The following drawing(s) is/are provided from Verizon records (formerly known as Worldcom) in response to your request to show the approximate location of our infrastructure within the vicinity requested.

Note:

This reply relates only to the location requested and is valid for 30 days from the date of this reply. Where additional works are planned that have not been specified within this request, Verizon require that an additional location request be submitted.

Please Contact a Verizon representative for confirmation and/or site visit prior to works commencing.

ALL VERIZON / WORLDCOM PITS ARE LOCKED FOR SECURITY

Only Verizon personnel have access to the security key.

Contacts:

Paul Spear **Direct:** 02 8210 3243 **Email:** paul.spear@au.verizon.com

Verizon Operational Resource Centre (ORC) **Direct:** 02 8210 3030 Option 1

Warning:

These drawings have been prepared for Verizon's own use and indicate the position of underground optical fibre networks and installations relative to property lines, kerb lines etc. as at the time the infrastructure were installed. Verizon will accept no liability for inaccuracies in the information or lack of information on such drawings for any cause whatsoever arising. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Verizon's Infrastructure. Verizon also reserves the right to recover compensation for any damages and loss of services.

Sydney CBD Network



LEGEND

- VERIZON DUCT
- VERIZON DUCT
- TELSTRA DUCT
- VERIZON PIT
- TELSTRA PIT

REV	DATE(D/M/Y)	DESCRIPTION	DRAWN	CHECKED	APPROVED
C3	04/9/17				

Do not scale this drawing. Information on this document is proprietary & shall not be used, copied, reproduced or disclosed in whole or in part without written consent of Verizon.

PROJECT
Verizon
SYDNEY CBD NETWORK

verizon

DRAWING TITLE
SYDNEY CBD NETWORK
SHEET 1 OF 1

REVISION
C3

DRAWING NUMBER
VZ/AUS/DB4UD/CBD

SCALE
N.T.S.

SIZE
A1

21/11/2019

Ms Yiqing Kong
LCI
Level 4 73 Walker St
North Sydney NSW 2060

Dear Ms Yiqing Kong

DIAL BEFORE YOU DIG - JOB: 18616279 SEQ: 92397601

Thank you for your enquiry regarding the below mentioned area.

Enquiry Date:	21/11/2019
Address:	254 Pitt Street
Suburb:	Sydney
State:	NSW, 2000

Additional Information:

YES – We can confirm, the Vocus Group has Fibre Optic Services within the vicinity.

Please find attached a copy of the services plan for the location you have specified. These plans are valid for 30 days from the date requested.

IMPORTANT INFORMATION

Drawings and plans provided by the Vocus Group are reference diagrams which were correct at the time the asset was built. Exact ground cover and alignments cannot be provided with any certainty, as these may alter over time. Depth of the Telecommunications asset can vary considerably as can alignments. The plans provided are to be used as a guide only.

Identifying the Vocus Group asset visually is critical. Information on how this can be arranged is provided in this document.

Please email Damage.Relocations@vocus.com.au for general enquiries about the information provided within this response.

Yours sincerely,
Vocus Group DBYD Team

EMERGENCY CONTACT: 1800 262 663

DUTY OF CARE

The Constructor has a legal "Duty of Care" that must be observed when working in the vicinity of any Vocus Group asset.

It is the responsibility of the Constructor to design their works with no impact to the Vocus Group asset.
The Constructor must;

a. Obtain and review plans for a specified area through Dial Before You Dig within a reasonable timeframe before construction begins.
b. Visually locate the Vocus Group asset, using a Vocus Group Accredited Locator who will vacuum excavate (potholing) where construction activities may damage or interfere with the Vocus Group asset. Refer to ***"Clearances for Work in the Vicinity of the Vocus Group Asset"*** section below for more information.
c. Contact the Vocus Group if the Vocus Group asset is wholly or partly located near planned construction activities.

NOTE: Plans are provided free of charge from DBYD. Request for plans of a larger area may incur a cost.

DAMAGE

The Constructor will be held responsible for all asset damage when work commences prior to obtaining the Vocus Group plans, or failure to follow instructions.

ANY DAMAGE TO THE VOCUS GROUP ASSET
MUST BE REPORTED TO 1800 262 663 IMMEDIATELY

The Vocus Group reserves all rights to recover compensation for loss or damage to its cable network or other property including consequential losses.

ASSET RELOCATIONS

The Constructor is not permitted to relocate or alter any Vocus Group asset or network under any circumstance.
For all enquiries relating to the relocation of a Vocus Group asset please email Damage.Relocations@vocus.com.au

RESOLUTION OF POINTS OF CONFLICT

Should asset location and potholing reveal points of conflict between the Constructors planned works and the existing Vocus Group asset, the Constructor should contact the Vocus Group for advice and to discuss possible solutions.

Please contact the Fibre Assurance Team
Phone: 1800 262 663
Email: Damage.Relocations@vocus.com.au

ASSESSMENT OF RISK AND PROTECTIVE ACTIONS

Where "Protective works" are required around existing the Vocus Group asset, a solution will be confirmed on a case by case basis. The cost of the Protective works are the responsibility of the Constructor and the works will be carried out by a Vocus Group Accredited Contractor.

Where "Relocation works" of the Vocus Group asset is part of an agreed solution, a Project Manager will be assigned to work with the Constructor. The cost of the Relocation works are the responsibility of the Constructor and the works will be carried out by a Vocus Group Accredited Contractor.

Region	Onsite Locations Contact	Phone	Mobile	Fax	After Hours
Sydney, NSW	QC Communications	(02) 9620 2407		(08) 9620 1701	
Alice Springs, NT	Chambers Engineering	(08) 8955 5022	0418 837 833 0427 971 931	(08) 8955 5322	
Darwin, NT	Anywair Electrics		0418 890 071		0418 890 071
Darwin, NT	Northern Comm.'s		0407 904 319		0407 904 319
Brisbane, QLD	Optilinx	(07) 3901 7353	A/Hours or Emergency 0404 010 658	(07) 3901 7352	
Adelaide, SA	TPC	(08) 8376 5911		(08) 8376 5944	
Melbourne, VIC	Linktech	(03) 8805 0300			
Perth, WA	Abaxa	1300 369 642	A/Hours or Emergency 0411 746 657	(08) 9256 2922	

If any of the above numbers are uncontactable and your call is urgent, please call the Vocus National Service Desk on 1800 262 663

The Vocus Group accepts no liability for the information provided to the Constructor by the Locators listed above.

Further to this, the Constructor acknowledges that the Locator is the agent of the Constructor and that the Vocus Group takes no responsibility for the Locators' acts or omissions.

- For all work within 2.5 metres of nominal location, the Constructor is required to prove the actual location of the asset by potholing and exposing before commencing work.
- Potholing to expose and locate the Vocus Group asset is required before work commences and every 3 metres where the Constructors works are parallel to the Vocus Group asset.
- The Constructor is responsible for all asset damages when works commence without the Vocus Group plans or by failure to follow advice and/or instructions from the Vocus Group.

NOTE: No machinery shall be used within 1 metre of the Vocus Group asset until the actual location has been determined by potholing using hand tools.

NOTE: No heavy earth working machinery shall be used within 5 metres of the Vocus Group asset until the actual location has been determined by potholing using hand tools.

CLEARANCES FOR WORK IN THE VICINITY OF THE VOCUS GROUP ASSET

These figures represent the minimum clearance cover to be maintained over the Vocus Group asset. Please note that the actual cover over existing asset may be greater or less than recommended figures. Exact alignment and depths cannot be given with certainty as such levels can change over time.

Footpath and Verge Areas	450mm
Roadways	600mm

These figures represent the minimum clearance between construction and actual location of the Vocus Group asset.

Jackhammers / Pneumatic Breakers	Not within 2.5 metres of actual location
Vibrating Plate or Wacker Packer Compactors	Not within 500mm of actual location
Heavy Vehicle Traffic	Not to be driven across the Vocus Group asset with less than 600mm cover. The Constructor is to check the depth by potholing using hand tools.
Mechanical Excavators	Not within 1 metre of actual location. The Constructor is to pothole and expose the asset using hand tools.
Boring Equipment (in-line, horizontal and vertical)	Not within 2.5 metres of actual location. The Constructor is to pothole and expose the asset.

Access to the Vocus Group pits must remain accessible and at ground level at all times.

Any information provided is valid for 30 days only from the date of issue of this document. If the works extend beyond this period, or if the designs are altered in any way, you are requested to re-submit your proposal for re-assessment by contacting Dial Before You Dig.

Phone 1100 or check the website for more details http://www.1100.com.au

Schedule The Criminal Code
Chapter 10 National infrastructure
Part 10.6 Telecommunications Services
Division 474 Telecommunications offences

474.6 Interference with facilities

(1) A person is guilty of an offence if the person tampers with, or interferes with, a facility owned or operated by:

(a) a carrier; or
(b) a carriage service provider; or
(c) a nominated carrier.

Penalty: Imprisonment for 1 year.

(2) For the purposes of an offence against subsection (1), absolute liability applies to the physical element of circumstance of the offence, that the facility is owned or operated by a carrier, a carriage service provider or a nominated carrier.

(3) A person is guilty of an offence if:

(a) the person tampers with, or interferes with, a facility owned or operated by:

(i) a carrier; or
(ii) a carriage service provider; or
(iii) a nominated carrier; and

(b) this conduct results in hindering the normal operation of a carriage service supplied by a carriage service provider.

Penalty: Imprisonment for 2 years.

(4) For the purposes of an offence against subsection (3), absolute liability applies to the following physical elements of circumstance of the offence:

(a) that the facility is owned or operated by a carrier, a carriage service provider or a nominated carrier;

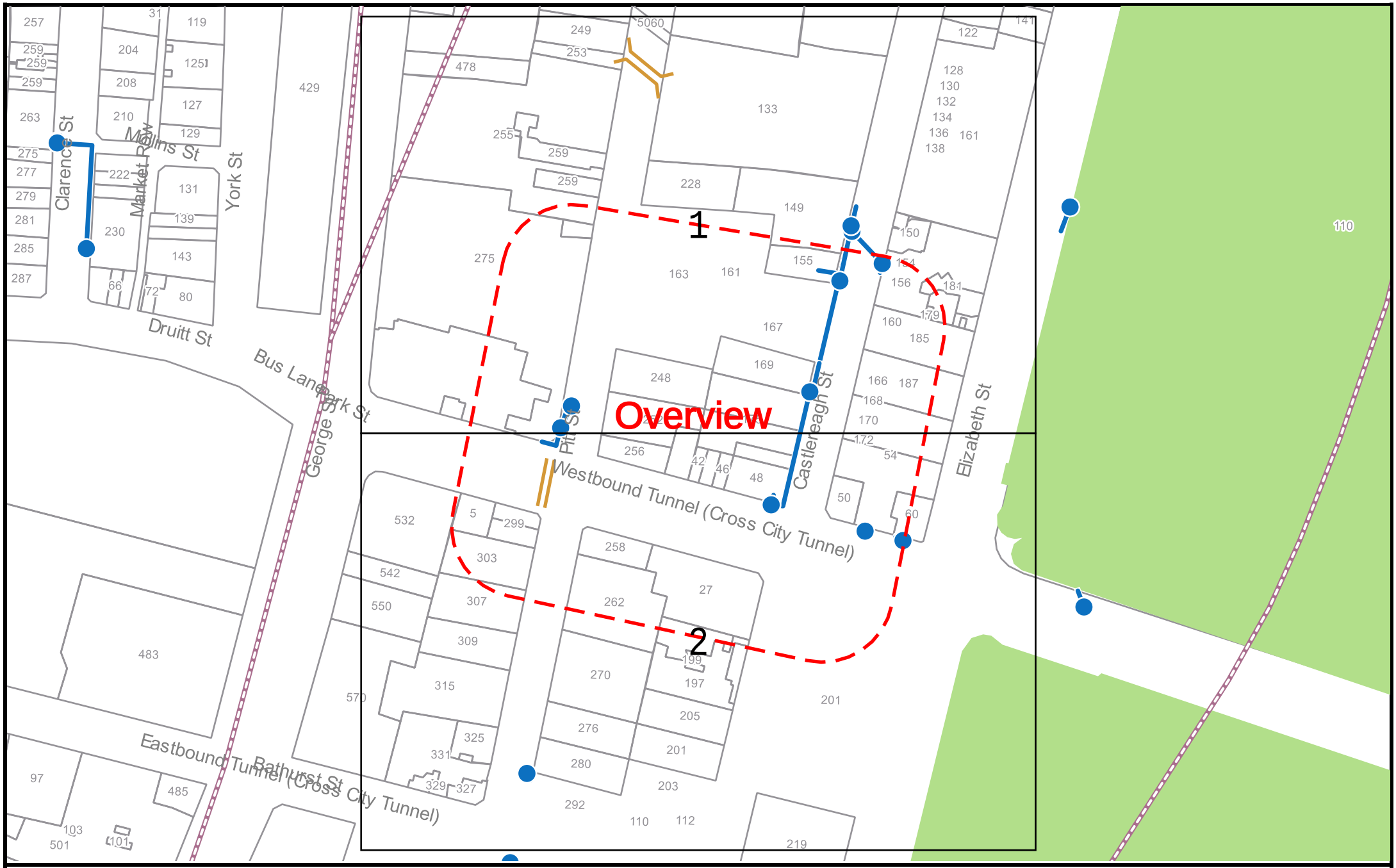
(b) that the carriage service is supplied by a carriage service provider.

(5) A person is guilty of an offence if:

(a) the person uses or operates any apparatus or device (whether or not it is comprised in, connected to or used in connection with a telecommunications network); and

(b) this conduct results in hindering the normal operation of a carriage service supplied by a carriage service provider.

Penalty: Imprisonment for 2 years.



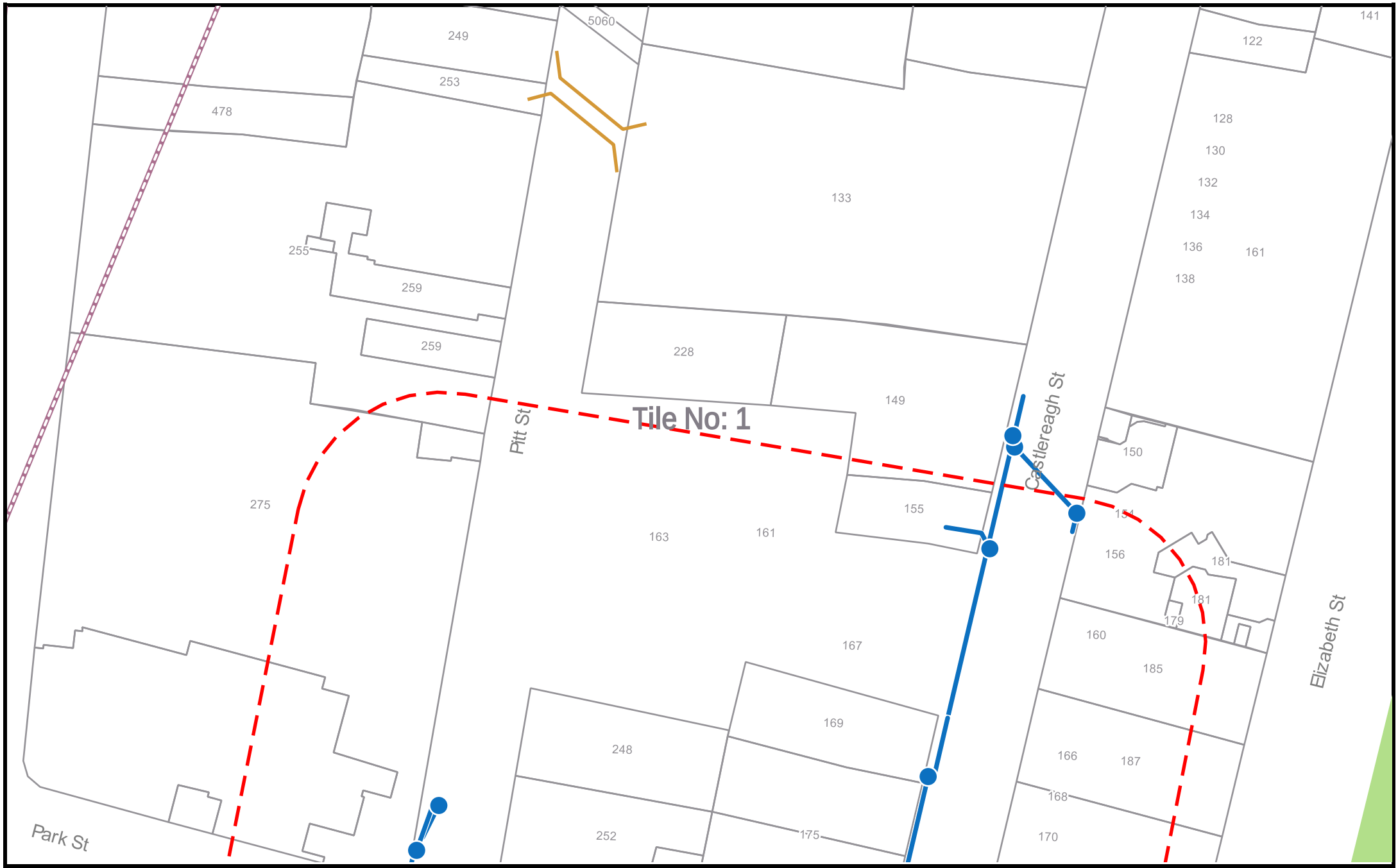
VOCUS communications

SEQUENCE NUMBER: 92397601
JOB NUMBER: 18616279
ADDRESS: 254 Pitt Street, Sydney, NSW 2000

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:2050

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.

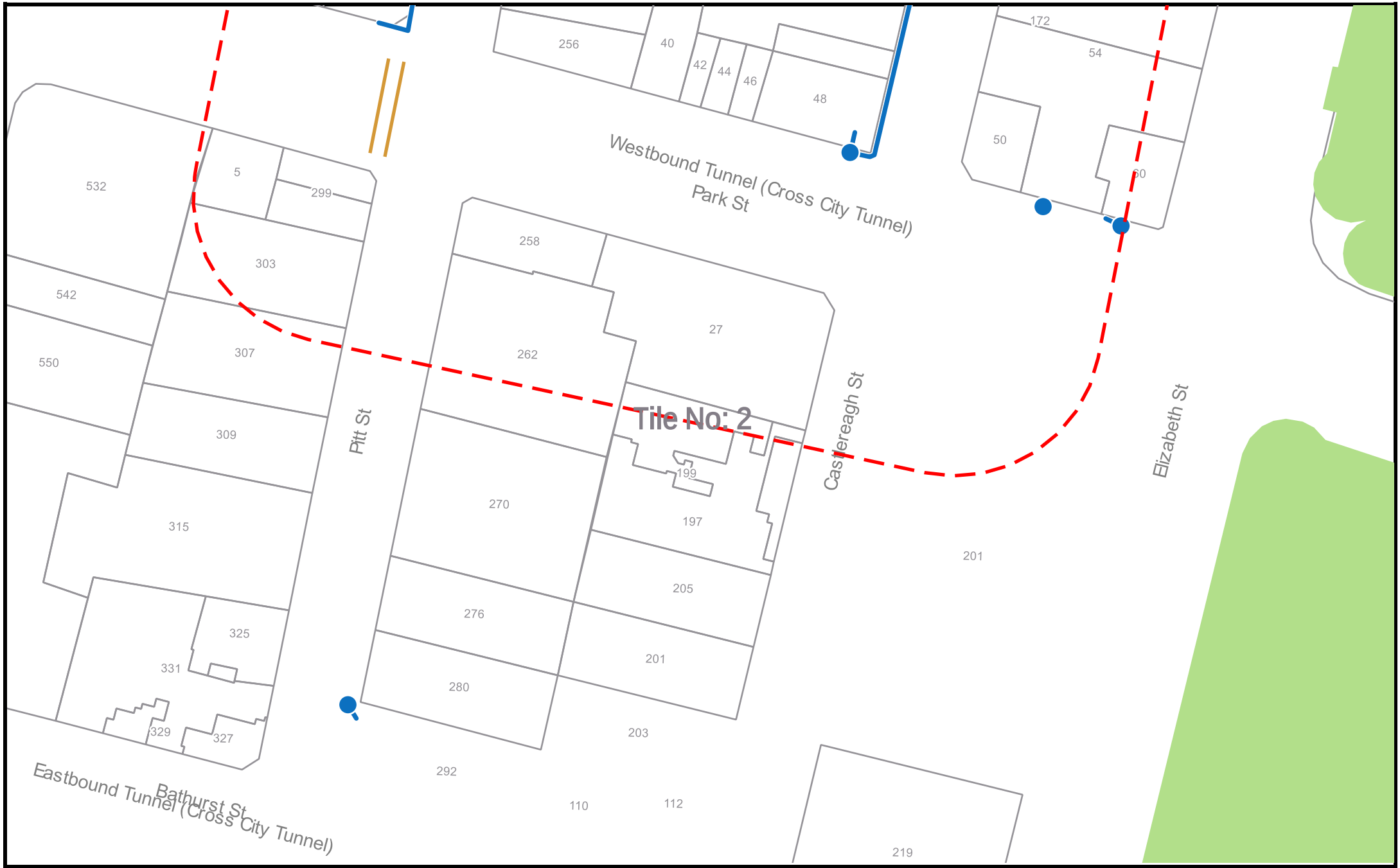


SEQUENCE NUMBER: 92397601
JOB NUMBER: 18616279
ADDRESS: 254 Pitt Street, Sydney, NSW 2000

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.



SEQUENCE NUMBER: 92397601
JOB NUMBER: 18616279
ADDRESS: 254 Pitt Street, Sydney, NSW 2000

LEGEND
Vocus Group Pit
Vocus Group Conduit

SCALE: 1:1000

The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.

Appendix C Ausgrid Offer for Design Related Services

Received on 29/10/2019 and accepted on 21/11/2019

OFFER to provide DESIGN RELATED SERVICES

DESIGN RELATED SERVICES OFFER

Premises address:	**PITT STREET, SYDNEY 2000**	
NMI - Number:	**TBA**	**Webform Ref 42447**
MC Reference:	**1900096009**	**AP Reference: 800290106**
This offer is made on	29.10.2019	

By *Ausgrid* of 24 Campbell St, Haymarket NSW 2000.

To the ***connection applicant*** named in the *connection application* received on 10/25/2019 in respect of the *premises* referred to above.

Ausgrid has determined that network alterations are required to connect your development and we cannot proceed to a connection or relocation offer at this stage. To enable Ausgrid to further consider and process your application you will require a certified design and associated certification number. Your application remains technically incomplete until you have been issued a certification number.

This Design Related Services Offer provides guidance on how to obtain a certified design and associated certification number.

Scope of Network Alterations

Ausgrid has determined that the following works are likely to be required:

- ESTABLISHMENT OF A BASEMENT/SURFACE/ELEVATED (FIRST FLOOR) CBD CHAMBER SUBSTATION (REQUIRED FOR NETWORK LOAD) AND UPPER LEVEL CBD CHAMBER SUBSTATION

These works are classified as contestable, which means that you are required to fund the design and some or all of the construction works. If you have not already done so, you will need to engage and manage suitably qualified contractors, known as Accredited Service Providers (ASPs) to undertake the design and construction.

Initially, your ASP Level 3 (ASP/3) will undertake the design, and then your ASP Level 1 (ASP/1) will undertake construction in accordance with the design and Ausgrid's policies and standards. The timeframe for the works will vary depending on factors such as the complexity and the way in which you manage your ASP's.

Once the works have been satisfactorily completed and electrified, the premises connection assets will be owned and maintained by Ausgrid as part of the electricity distribution network.

Contract for Design Related Services

This letter is an offer for the Applicant to enter into a Contract for Design Related Services with Ausgrid. It remains open for acceptance for 45 business days. No work will be undertaken by *Ausgrid* until a Design Contract is in place.

You are encouraged to contact ASP/3's and ASP/1's to understand the likely overall costs you will incur for design and construction before you accept and commit to the Contract for Design Related Services.

IMPORTANT: The contractual arrangements provide the framework for a design to be prepared by your ASP/3, and NOT by *Ausgrid*. *Ausgrid's* fees as outlined below are for the design related network services we provide during the design phase, and are IN ADDITION to the fees charged by your ASP/3 in preparing the design.

Acceptance Fees

The acceptance fees relating to the Contract for Design Related Services are outlined in the attached Acceptance Fee Summary and also detailed on the Ausgrid Portal page. *Ausgrid* will invoice **the Applicant** once we receive acceptance via the Ausgrid Portal. The Contract will commence when you pay the invoiced fee.

The acceptance fees are an estimate for the *Ausgrid* services required and are payable up front by the **Applicant**. Further fees may apply for any additional services required and these will be quoted via the Ausgrid Portal on each occasion.

Ausgrid's published rates for our services are amended from time to time in our Alternative Control Services Fee Schedule Publication, and in accordance with the Contract, *Ausgrid* reserves the right to charge the rates that are applicable at the time the service is provided.

Fees for *Ausgrid's* services are in addition to the design and construction costs charged by your ASP's, and some fees may not be refundable if the service has already been provided. Fees and rates are set by the Australian Energy Regulator:

WHAT TO DO NEXT

- To move ahead, please accept the offer (see below) outlined in this document and then pay the invoice that will be forwarded to you
- Engage an ASP Level 3 designer
    - On the Ausgrid Portal, nominate the ASP/3 as the designer for this project
    - Advise the ASP/3 that the Design Information Category for this project is **Complex**

Enclosures:

Contract terms – via website at:
https://www.ausgrid.com.au/-/media/Documents/Technical-Documentation/Contracts-and-Deeds/Contract-for-Design-Related-Services/Design-Contract-2017.pdf.

Acceptance Fee Summary – attached

PLEASE REVIEW THE OFFER OUTLINED IN THIS LETTER, ALONG WITH THE TERMS LINKED ABOVE, THEN PROCEED TO THE AUSGRID PORTAL

IF YOU WISH TO ACCEPT THIS OFFER

SELECT "ACCEPT" AGAINST THE OFFER ON THE AUSGRID PORTAL WITHIN 45 BUSINESS DAYS

IF YOU WISH TO DECLINE THE OFFER

SELECT "DECLINE" AGAINST THE OFFER ON THE AUSGRID PORTAL.

Should you wish to proceed in the future, a new connection application will need to be lodged.

DESIGN RELATED SERVICES OFFER

ACCEPTANCE FEE SUMMARY

Service Description	Unit	Quantity	Price per unit	Total Price
Administration of Contestable Works - General - Design	Service	1.00000	$236.71	$236.71
Design Information - Complex - R3	Hour	50.00000	$196.39	$9,819.50
Design Certification - Other - R3	Hour	100.00000	$196.39	$19,639.00
SUBTOTAL				$29,695.21
GST (10%)				$2,969.52
TOTAL				$32,664.73

These fees are an **initial estimate** for the services we will require to provide throughout the design contract and are payable up front by the **Applicant**, on acceptance of the contract.

IMPORTANT: **Additional** services may be required through the course of the design contract (e.g. asset number requests, specialist services, consultancy services). The fee for such services will be billed to the **Applicant** in accordance with the contract, and are payable prior to design certification. Typical examples include, but are not limited to, fees for asset creation, additional certification effort and requests to vary network standards.

Appendix D Ausgrid Design Information Package

Received on 31/12/2019

Project Number: AN-20541

Establishment of One Control Point Chamber CP.31740, CBD Basement Chamber Substation S.8043 & CBD Upper Level Chamber Substation S.31741.

Pitt Street, Sydney

Design Information

Site Specific Requirements - Complex

Date: 31st December 2019



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SITE SPECIFIC DESIGN INFORMATION REQUIREMENTS

The Design Information Site Specific Requirements Complex is complementary to, and must be read in conjunction with, the Design Information General Requirements, which can be found on the Ausgrid web site.

1. Ausgrid Project References

SAP Project Number	AN-20541

2. Ausgrid Contact Details

Note that this information is not to be placed on the design.

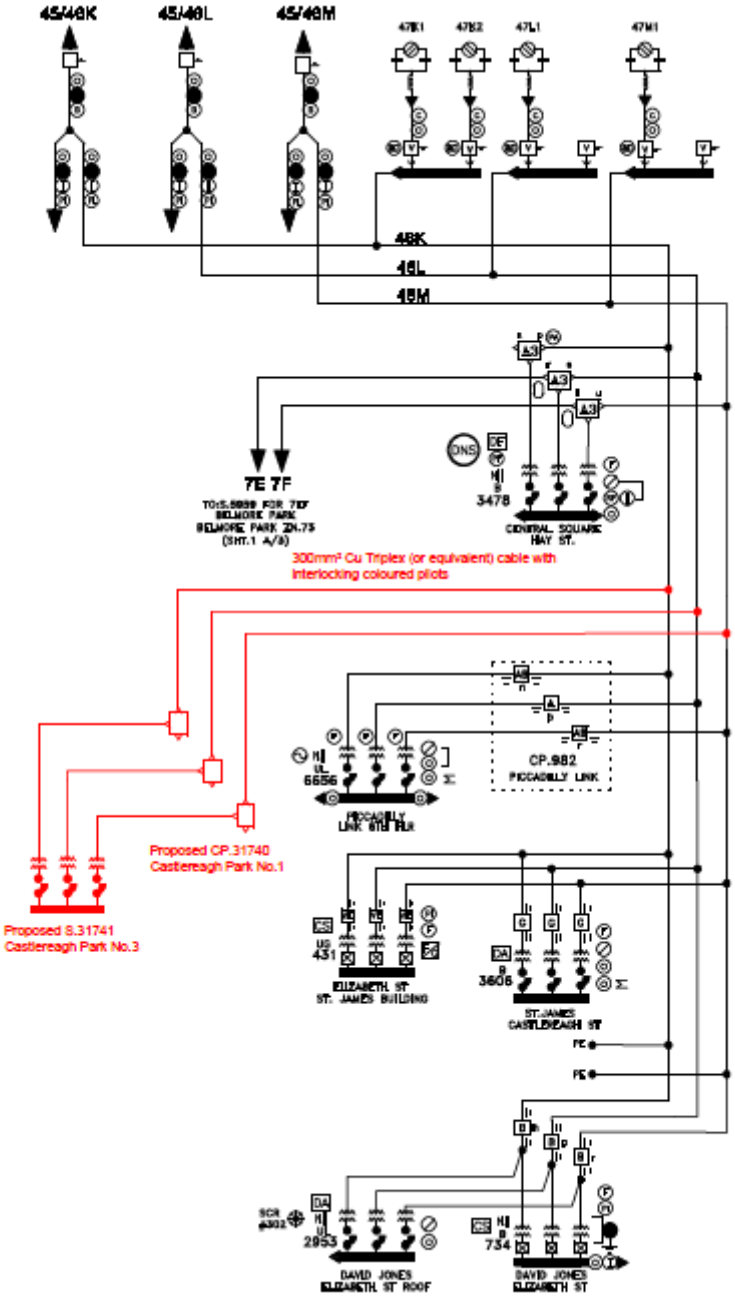
Ausgrid Contact	Lingasen Pather
Telephone No	02 9663 9209
Email Address	lpather@ausgrid.com.au

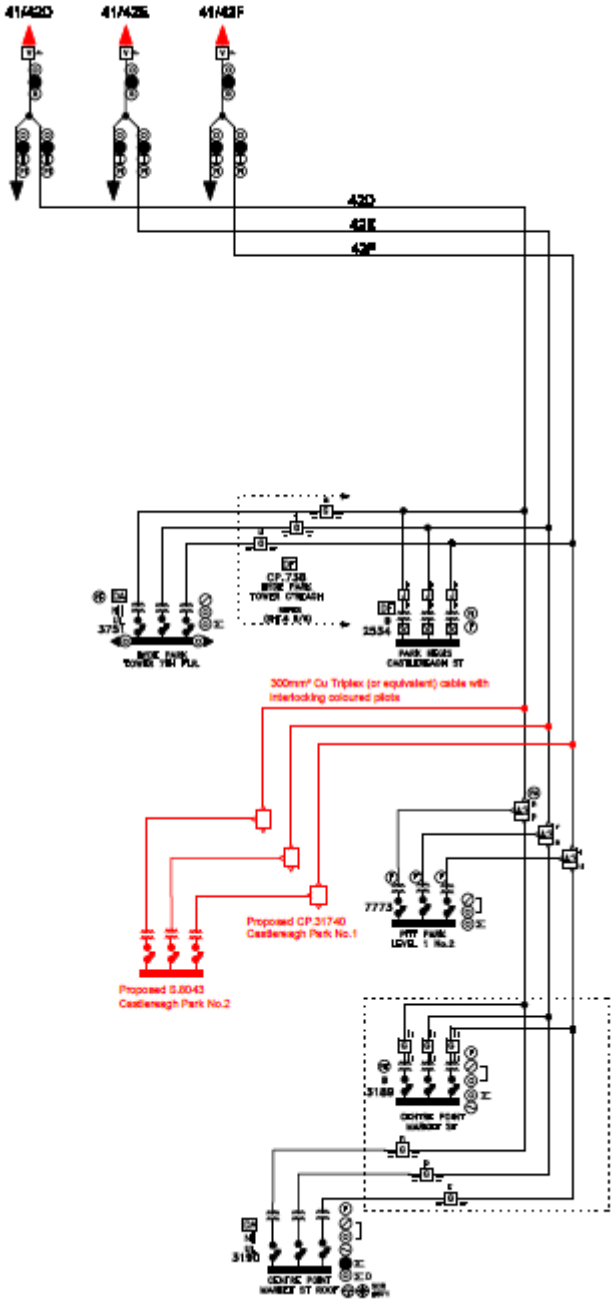
3. Network Extension Connection Point

3.1. High Voltage Connection Point

Zone substation S3288 City South - 11kV feeder: 45/46KLM – 11kV Feeder: 41/42DEF

- Between tee S3478 & S3288 and tee CP.982 & S3606.
- Between tee S2534 & S3288 and S7773.


45/46K
45/46L
45/46M
47B1
47B2
47L1
47M1
46K
46L
46M
7E 7F
3478
CENTRAL SQUARE
HAY ST.
300mm² Cu Triplex (or equivalent) cable with
interlocking coloured pilots
CP.982
PICCADILLY LINK
6656
Proposed CP.31740
Castlereagh Park No.1
Proposed S.31741
Castlereagh Park No.3
431
ELIZABETH ST
ST. JAMES BUILDING
3608
ST.JAMES
CASTLEREAGH ST
2953
DAVID JONES
ELIZABETH ST ROOF
734
DAVID JONES
ELIZABETH ST



NOTE: CHANGE TO DESIGN: Feeder 41/42DEF will go directly to Basement Chamber Substation S.8043.

4. Details of Ausgrid Network in Vicinity of the Development

Recorded details of the Ausgrid network, including cable codes, soil codes, etc, are shown in Ausgrid's WebGIS. The ASP/3 designer must login to the WebGIS to obtain relevant information. The ASP/3 designer should contact Ausgrid for any further clarification or if information appears to be missing. Note: Ausgrid's WebGIS information has not been verified against actual site assets. The ASP/3 designer is responsible for the accuracy of information on designs and it is strongly advised that the ASP/3 designer verifies WebGIS asset details on site prior to undertaking the design.

5. Proposed Works

Alter the existing high voltage and/or low voltage network systems, in accordance with the schematic and/or graphical representation, for the required electrical works as shown on the attached and/or following drawing(s).

PREFERRED POINT OF ENTRY

The preferred point of entry for the proposed substation is from the HV Pit.27224 entrance to the site.

HV CONNECTIONS

1) Refer to attached drawings.

2) Use 300mm² Cu Triplex cables (or equivalent).

3) Lay 8x125mm HV Ducts from the proposed Substation to the HV Pit.27224 located in Pitt Street.

4) Lay 4x125mm ducts from the proposed Substation to the LV Pit.53153 located in Pitt Street.

*Please note this data is NOMINAL, and for a NORMAL network configuration. It is based on the current data in the GIS, and on the 11kV Busbar fault information provided by Subtransmission Planning. The actual Voltage Drop and 3 Phase Fault Levels may differ (for example) due to network switching, paralleling of Transformers, the effects of future projects, Transformer tap settings, and the currency / accuracy of the GIS data and the 11kV busbar fault level provided. The Fault Level is not the minimum Fault Level for equipment ratings. See NS-114 (Chamber Substations), NS-117 (Kiosks Substations), NS-122 (Pole Mounted Substation) and also refer to "Clause 1.17.4 and 7.4.4" of the New South Wales Service and Installation Rules dated July 2018 for further information.

Notes:-

1. Conduit banks containing six or more power cable conduits (for use at any voltage level) must be installed as per the TSB requirements as per Section 12.9 of NS130.
2. When cables are installed in Thermally Stable Bedding (TSB) material the data capture must include the appropriate Conductor Codes and geo spatial of the cross section.
3. To minimise the effect of mutual heating on parallel sections of mains, whenever new cable/s are installed (for parallel lengths in excess of 10 meters) a minimum separation of 4 meters is to be maintained from all Transmission assets (33-330 kV) and 2 meters is to be maintained from existing distribution mains (415V/11kV) (transverse crossings are not a significant issue), unless stated otherwise by Distribution Planning.
4. Wherever excavation is carried out, please email Secondary Systems (T.H. Chia) at thchia@ausgrid.com.au to determine if an additional duct suitable for Fibre/Communications will be required.
5. These HV Connections are valid for a period of 12 months from the date the Design Information Package is issued to the customer.

5.1. Extension Works

Fit out a 3x1500kVA transformer CBD basement chamber substation that is to be constructed on the development property within the proposed building.

Fit out a 3x1500kVA transformer CBD upper chamber substation that is to be constructed on the development property within the proposed building.

Fit out a Control Point chamber.

Install low voltage underground mains (ie direct distributor) from proposed chamber substation to the private termination enclosure for Masonic Club.

Install low voltage interconnection(s) from the proposed substation(s) to the existing low voltage Network reticulation.

6. Customer Point of Supply (Connection Point)

Provide a total of 8964 amps three phase low voltage point of supply at the low voltage switchgear terminals within the chamber substation enclosures.

7. Fault Level

~ Refer NS114

8. Cable/Conductor Route and Type

8.1. Route Information

It is generally the responsibility of the ASP/3 designer to select an appropriate route. However, Ausgrid reserves the right to require variation(s) of any proposed cable route.

Ausgrid makes no warranty expressed or otherwise that any proposed route depicted in the design information by Ausgrid is suitable for the intended purpose.

8.2. Underground

11kV	11KV 300CU1 EPR 70 CU(WS) Z YQ / Triplex.- refer to NS177 for details on cable termination requirements (ie the cable size for the transistion to single core cables).
Low Voltage	LV 185Cu1 XLPE/Coloured LV direct distributor: select appropriate cable as per NS112
SCADA / Telecontrol	UGFO - 60 Fibre Nylon Jacketed Dry Core Cable

8.3. Conduits

Spare Conduits available for use	NIL
Spare conduits to be laid as part of this project	**HV Conduits**; Total 8x125 conduits from CP.31740 to HV pit 27224 (Pitt Street). **LV conduits**; Total 12x125 conduits to property boundry and continue 4x125 conduits from property boundry to LV pit 53153 (Pitt Street).

8.4. Protection

Protection	As per NS130

9. EQUIPMENT

9.1. Multiple Transformer Chamber Substation (Basement)

Substation Number	**S.8043**	Substation Name	**Castlereagh Park No. 2**	
Ultimate Capacity	3 x 1500kVA transformers		Initial Capacity	3 x 1500kVA transformers
Rating (Firm/Non-Firm)	5000A ref.NS109		Load Cycle	A: Commercial / Industrial
Voltage Ratio	11000/433		Vector Group	Dyn 1

Description		Stock Code	Quantity
PowerTransformers	1500kVA oil filled	180359	3
HV Switchgear	ABB Safelink SF6 3 Way Isolating and Earthing Switch	180232	3
LV Board "E" type low voltage board that consists of free standing modular units as described.	3000amp ACB incoming panel motorised (LV isolation of the transformer)	179996	3
	3000amp ACB customer point of supply motorised panel – cable	179617M	2
	400/400/800 amp SAIF fused distributor panel	179651	3
	Surge arrestor and 62amp auxiliary fuse panel (Right hand and/or Left hand)	180221 (RH) 179619 (LH)	1

~ Unless detailed above the ASP/1 desinger is to noimiate the LV board arrangment. ~ Customer to procure the whole LV board (note: lead times are in the order of 24 weeks). ~ Materail cost of the LV board component(s) funded by Ausgrid is reimbursed after substation commissioning. ~ Any stock item not purchased from Ausgrid must conform with Ausgrid's current specifications.

9.2. Multiple Transformer Chamber Substation (Upper)

Substation Number	**S.31741**	Substation Name	**Castlereagh Park No. 3**	
Ultimate Capacity	3 x 1500kVA transformers		Initial Capacity	3 x 1500kVA transformers
Rating (Firm)	5000A ref.NS109		Load Cycle	A: Commercial / Industrial
Voltage Ratio	10835/433		Vector Group	Dyn 1

Description		Stock Code	Quantity
PowerTransformers	1500kVA dry type	180361	3
HV Switchgear	CP.78779		
LV Board "E" type low voltage board that consists of free standing modular units as described.	3000amp ACB incoming panel motorised (LV isolation of the transformer)	179996	3
	3000amp ACB customer point of supply motorised panel – cable	179617M	2
	Surge arrestor and 62amp auxiliary fuse panel (Right hand and/or Left hand)	180221 (RH) 179619 (LH)	1

~ Customer to procure the whole LV board (note: lead times are in the order of 24 weeks).
~ Materail cost of the LV board component(s) funded by Ausgrid is reimbursed after substation commissioning.
~ Any stock item not purchased from Ausgrid must conform with Ausgrid's current specifications.

9.3. Control Point Chamber

Substation Number	**CP.31740**	Substation Name	**Castlereagh Park No. 1**	

Description		Stock Code	Quantity
HV Switchgear	ABB Safelink SF6 3 Way Isolating and Earthing Switch	180232	3 or 6

9.4. Substation Equipment Fuse Element Schedule

LV Fuses	LV fuse elements: 400amp 92mm centres Bell / MEM "J" LV fuse elements: 800amp 92mm centres Bell / MEM "J"

9.5. Multiple Transformer Chamber Substation Protection Equipment (per chamber)

Required Protection	Optical Arc Flash Detection Transformer Differential Transformer Over-Current & Earth Fault Customer Over-Current

Description		Stock Code	Quantity
Protection Panels	Free Standing TX1/TX2 OAFD Protection Relay panel	TBA	1

	Free Standing TX3/CUSTOMER 1&2 OAFD Protection Relay panel	TBA	1
	Auxilliary Service Panel	182543	1
	Pilot Isolation Box	81208	6
Current Transformers Excluding components included in the “E” Type LV Board	2450/1837/2.89 OAFD EF Check Epoxy CT	67173	3
	100/5 HV Differential CT (10P25F20)	89722	9
Relays	K3M Differential Fuse Relay	91058	3
	MICOM P115 Relay (24/48V AC/DC) (TX OC)	182547	3
	SEL751A	182548	3
	Schneider P14222QBBM0B49L (Firmware version: 44V) (CUSTOMER OC)	TBA (Drawing Ref 224809)	2
	3A32 K37 0.2 Ohm Thermal Trip Indicator	175103	3
	PIR Pilot Interlock Relay	62158	6
	Latching Multitrip RMS TR12 – CD – 22 (48V)	TBA (Drawing Ref 223206)	6
	Latching Multitrip RMS TR12 – BD – 22 (32V)	TBA (Drawing Ref 223206)	6
	DMT Auxillary Relay	62141	1
	FF5 Fan Failure Relay	60962	1
Miscellaneous	Marshalling Box - Polynova PC 360mm (H) x 360mm (W) x 205mm (D) Manufacturer:- B&R Enclosures Pty Ltd Catalogue No. PC363620	To be obtained from external supplier	1
	Fibre optic assembly for OAFD	182541	6
	DLAC Scada Panel	81174	1
	ECTU Intermediate Cabinet	TBA	1
Battery Items	Battery Rack Insulator	95323	20
	Battery Rack Acrylic Washer	65235	20
	Battery Rack Presspahn Washer	59543	20
	Battery Set 10 volt 8 Cell Alkaline	96602	8
	Battery Charger - 30V trickle type	75168	1
	30V DC battery test box	123703	1
	Battery Charger - 48V float type	182540	1
Distribution Substation Control Equipment	Automation Controller: Schweitzer SEL-3530 3530HC2BX323X0XXXXXX (Firmware version: SEL-3530-R134-V1-Z001001-D20150417)	TBA (Drawing Ref 222615)	1
	Network Switch: Ruggerdcom RS8000 RS8000-48-MM-MS-XX (Firmware version: 8x100BASE-FX LC, ROS version 3.12.1, Boot version 2.20.0)	TBA	1

	SCD5200 Wide Range Power Supply Module (Invensys Part Number: SY-0399131)	TBA	1
	SCD5200 One-slot Card File (Invensys part number: SY-2003104)	TBA	1
	Communications Unit Distribution Sub: OAP-SE-4xETH, 1x100BaseSX/10Base-FL, 2xFXS, 1xX.21, 2xSFW 100 Base-FX, C50 Mech (CommTel part number: P21002.02-003 OAP-SE)	TBA	1
	Communications Unit – Network Node: OAP-XE-VOIP OAP-XE 4xETH, 4xFXO/VoIP, 1xV.11 2xSFW 100Vase-FX, P2P. OAP-SR Mechanics (CommTel part number: P21001.02-002 OAP-XE-VOIP)	TBA	1
Note: any stock item not purchased from Ausgrid must conform with Ausgrid's current specifications.			

10. Asset Number Allocation

During the design stage the ASP/3 designer will need to request from Ausgrid any additional asset numbers.

11. Apportionment of Costs

The information this section contains is based on assumptions of the likely design solution. Certification of a design that does not conform to such assumptions may require Ausgrid to reassess the apportionment of costs and funding of the project, including re-assessment of any quotations issued prior to Design Certification.

11.1. Funding

At this stage Ausgrid will fund the following works for the development and anything not listed is funded by the customer. Where applicable, the amount(s) to be paid by Ausgrid will detailed on the Schedule to the Certified Design.

- There is no funding by Ausgrid on this project.

12. Design Information Attachments

The following documentation is readily available and can be found on our website www.ausgrid.com.au

- Design Information – General Terms and Conditions document.
- Ausgrid's external CAD design template.
- Design Certification Check Sheet.
- Asset Number Request Spreadsheet.
- Asset Valuation Spreadsheet (AVS).
- Street Lighting Acceptance Form(s).
- Network Earthing Information Sheet.

The following can only be obtained from the Ausgrid WebGIS portal.

- A translated GIS extract of the proposed work area in DWG format (includes soil codes).
- Relevant additional asset information including cable codes.
- Relevant system diagram(s). **NOTE – Loads and ratings shown on system diagrams is for internal Ausgrid use only.**
- Environmental Analysis report.

The ASP/3 designer intending to undertake the design must obtain and use the electronic format of the relevant design information attachments (refer to NS104).

13. Notations to be placed on Design

In addition to the standard notations on the attached CAD design template add the following notations.

- The ASP/1 is required to comply with the correct procedure(s) for working with and/or near asbestos material (refer to Ausgrid NUS 211 – Working with Asbestos Products).

14. Remarks / Other Comments

The ASP/3 designer needs to contact Ausgrid early in the design phase should any of the proposed works require an alteration and/or extension to the Ausgrid fibre optic network. Ausgrid will then advise the ASP/3 designer of the scope of fibre optic network works that needs to be undertaken by Ausgrid and the works that will need to be done by the ASP/1. Generally Ausgrid only undertakes the final terminations and commissioning of the fibre optic network installation, however, the fibre optic network design and funding review is undertaken on a case by case basis.

Please consult your Contestable Project Coordinator for approval prior to the use of 11kV high voltage stub tee joints (HV3-43) on this project.

15. Design Information Revision History

31.12.2019	Initial issue using template version v180321

Appendix E Ausgrid Contestable Process Flowchart

NETWORK CONNECTION OR RELOCATION PROCESS

- APPLIES TO STANDARD DISTRIBUTION PROJECTS ONLY -

NETWORK DESIGN

Connection Application
Connection Applicant (CA) submits Connection Application with all connection details including max demand calculations and site plans.

Connection Assessment
Complete initial assessment. Issue connection advice, Contract for Design Related Services (CDRS) Offer, Design stage charges and forms.
within 10 days

Accept Design Contract
Review and accept CDRS. Engage an **ASP/3,** prepare and Submit Proposed Design Scope (PDS) if required. Pay Design stage charges.
within 45 Days of Offer

Is project classified as *Simple Design Information?*
If simple, Ausgrid does not prepare site specific Design Info. **ASP/3** uses general Design Info from Ausgrid's website
Y
N

Design Stage
Applicant nominates ASP/3 on Web Portal.
ASP/3 prepares and submits complete design package and CDRS Appendix 1.

Design Certification
Carry out design certification check.
21/40 calendar day notices must be expired prior to Certification.
within 10 days*

Connection or Relocation Offer
Issue Connection or Relocation Offer, including Schedule to the Certified Design. Advise connection charges.
within 10 days

Connection or Relocation Offer Acceptance
Review and accept Offer.
within 45 Days of Offer

Relocation Request
Relocation Applicant submits Network Asset Relocation Request (NARR) form complete with all details including site sketch of proposal.

Relocation Assessment
Complete initial assessment. Issue advice, Contract for Design Related Services (CDRS) Offer, Design stage charges and forms
within 10 days

Design Information
Assess PDS (if required), Issue site specific Design Information Package (DIP)
within 30 days

If non compliant

Engage ASP/1
Applicant nominates ASP/1 on Web Portal.
ASP/1 confirms agreement to undertake Ausgrid funded works (if required).

to CONSTRUCTION

NETWORK CONSTRUCTION

from DESIGN

If design issues found during preconstruction or contruction

Ausgrid arranges electrification
In preparation for proposed electrification outage, Ausgrid reserves resources and co-ordinates outage and electrification related ancillary services.

Date for PE passed
If construction or rectification of major defects have not reached PE 2 weeks prior to the scheduled electrification date, **ASP/1** to submit new Operator Request Form with revised date.
4 weeks min additional notice

IMPORTANT: DoA documents and instruments can take 4 weeks for Ausgrid to review and execute. Leases and easements can take 10 weeks. You and your **ASP/1 must** allow for this processing in your project scheduling.

Preconstruction Meeting
ASP/1 arranges preconstruction meeting with **ASP/3**, and Ausgrid optional for CA.
10 days min notice

Project Planning and Charges Payment
ASP/1 formulates and agrees critical dates with CA. **ASP/1** submits dates to Ausgrid for acceptance.
within 10 days

Commencement Approval
Assesses critical date submission, ensures all connection charges paid and preconditions met. Provide approval for works commencement.

Construction
ASP/1 undertakes construction
ASP/1 Submit Council/RMS/other Permits, Traffic Control Plan(s), DBYD Plans
Ausgrid carries out milestone inspections and arranges non electrification network access on request
Milestone inspections require **4 days min written notice**
Non electrification Clearances To Work **– 4 weeks min written notice**
Non electrification Access Permits **– 6 weeks min written notice**

Request for Electrification
ASP/1 submits: TEI sheets, substation testing sheets, Operator Request Form.
ASP/1 continues construction.
DoA executed by all parties.
Proof of arrangement of third party asset transfer, i.e. Telstra, Optus etc.
6 weeks min prior to electrification

Pre Electrification (PE)
All works to be satisfactorily complete. All remaining Contract requirements to be met. Easements/leases lodged with LRS unless DoA in place, red line diagram submitted, COA (field recordings) complete. No further construction (except minor rectification).
Ausgrid carries out PC inspection
2 weeks min prior to electrification

Electrification
(2 Stages for Substations)
Stage 1 – Electrification of substation and CM/DD to SPD.
Stage 2 – Electrification of customers private installation.

PRIVATE INSTALLATION

Engage Electrical Contractor (EC)
Applicant nominates EC on Web Portal.

Connection Applicant's Private Installation and Metering

Connection Applicant's private electrical installation design and construction are not part of the **ASP/1** connection process.

However, electrification of the **ASP/1** works and connection of the premises requires the Connection Applicant to address all private installation technical and safety requirements

Private Installation requirements and documentation review

At least 6 weeks prior to proposed electrification date the following private installation items must be submitted to Ausgrid for initial review:

- Main-switchboard (MSB) installed in final location on site
- Preliminary MSB drawings and site diagram
- Preliminary Private installation protection grading curves and circuit breaker settings
- Preliminary ISMP and Operating Protocol (for HV connections)
- Preliminary Hazard Dossier for private installation (if applicable).

Submitted min 6 weeks prior to electrification

Private Installation – ready for connection

At least 2 weeks prior to proposed electrification date the following private installation items must be **complete and finalised to Ausgrid's satisfaction:**

- Final Main-switchboard (MSB) drawings and site diagram
- Final Private installation protection grading curves and circuit breaker settings
- MSB and con-mains installation complete and terminated on site, ready for inspection and energisation (Ausgrid substations will not be energised without an MSB connected).
- Final ISMP and Operating Protocol (for HV connections)
- Valid CT Metering form(s)
- Valid CCEW and NOSW forms (as applicable)
- Final Hazard Dossier for private installation (if applicable)
- Retailer in place.

Finalised min 2 weeks prior to electrification

*** indicates best endeavour timeframe**

Note: All days refer to business days unless noted otherwise.

Customer action

Ausgrid action

Version 5.14
28/06/2019
Amended to reflect AER 2019-24 Regulatory Reset and implementation of Customer Relationship Management program (CRM)