



# Robert **Bird** Group

Report Addressing Director General's  
Requirements Section 11 and 15

**Mixed Retail and Residential  
Development  
78-90 Old Canterbury Road,  
Lewisham, NSW, 2049**

**Issue: C**

**Prepared For: Lewisham Estates Pty Ltd.**

**Project No.: 09675W**

**26 October 2010**



ISO 9001:2008  
FS 520893



[illegible]

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REVIEWER:

ALISTAIR CAMERON  
Signing for and on behalf of  
**Robert Bird Group Pty Ltd**  
Date: 26<sup>th</sup> October 2010

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## 1.0 Brief

Further to the request of Joe Abboud and in accordance with our fee proposal, Robert Bird Group presents this report addressing the requirements of Section 11 (Rail Impacts) and Section 15 (Flooding and Drainage) of the Director General's requirements for Environmental Assessment under Part 3A of the Environment Planning Assessment Act. The Concept Plan is for a Major Project comprising a mixed use development for residential, commercial and retail land uses with associated car parking facilities and public domain improvements. The Concept Plan is for buildings ranging in height from 4 to 9 storeys with a maximum overall FSR of 3.5:1. Public domain improvements include the creation of new streets, open space areas and pedestrian access points. The subject site is located at 78-90 Old Canterbury Rd, Lewisham, which is legally described as Lot 11 in DP 774322 and Lots 6-8 in DP 977044. The site is an irregular shaped allotment that is currently occupied by an assortment of industrial buildings. As described in Figure 1, the site is bounded by Longport Street to the north, Old Canterbury Road to the east, Hudson Street to the south and a green corridor (redundant freight railway corridor) to the west. A few outbuildings are located within the green corridor to the west and attached to the western boundary alignment of the subject site. The north eastern corner of the site is bounded by William Street and Brown Street. The site has a total area of 13,115sqm.

A meeting was arranged for Brendan Drake from our Newcastle office to meet with Rail Corp to discuss their requirements for the development. In attendance at the meeting were Chris Bailey, Alice Pettini and Jim Tsirimiagos from Rail Corp.

We are in receipt of the following documentation

- Master Planning Report October 2010
- Survey, StrataSurv drawing number 159301 Rev E 20/10/2003 (Appendix A)
- Service Location Plans (Appendix B)
  - Telstra assets location plan
  - Sydney Water assets location plan
  - Marrickville Council drainage plan
  - Jemena assets location plan
  - Energy Australia assets location plan
- Marrickville Council flood affected properties map, 2006
- Rail Corp Documentation (Appendix C)
  - A guide to working in and around the rail corridor, November 2005
  - ESC 380 External Developments, Version 2.1, May 2009
  - ESC 510 Boundary Fences, September 2005
  - Developments and Rail Crossings Application Form for External Third Parties Information Package, Public Version, November 2008
  - Brief for review of geotechnical & structural design for developments adjacent to or above rail corridor for external third party works performed under the NSW State Environment Planning Policy (Infrastructure) 2007, July 2009
- Preliminary geotechnical assessment, environmental investigations report No. E1195.1GA, 10 June 2010

## 2.0 Limitations of the Report

This report is based solely on provided documentation and "Dial-Before-You-Dig" search results. No detailed survey has been undertaken to locate exact location of boundary and/or services within proximity of site.

## 3.0 Description

The proposed development is located at Lewisham and the site is bounded by the existing Rozelle freight rail corridor to the West and Old Canterbury Road to the East. It is bounded by Hudson Street to the South and Longport Street to the North. Located within a portion of the site is Brown Street and William Street. It is understood that the existing Rozelle freight line is currently disused however there are possible future plans for this to be converted to light rail. The main western rail line lies on the Northern side of Longport Street.

Existing structures on the site consist of the following

- 1 to 3 storey industrial buildings
- Concrete carpark
- Structures within rail corridor
  - Gas compound
  - Portion of carpark
  - Canopy adjacent to existing industrial building
  - Existing concreted area

It is understood that only portions of site bounded by Brown Street, William Street, Longport Street and Old Canterbury Road are to be developed.

## 4.0 Location of existing services

Services located within the site from "Dial-before-you-dig" search are as follows:

- Energy Australia
  - Located primarily on Brown and William Street
- Sydney Water
  - Water is located on Brown and William Street.
  - Stormwater and Sewer lines are located within middle to Northern end of site. It appears that these services will likely be required to be relocated to allow for either excavation of basement or location of buildings.

Options for relocation of services (refer Appendix D) could be as follows:

- Relocate sewer and stormwater along William and Brown Street and reconnect at boundary where services extend under rail corridor.

This option has the following issues:

- Existing services located on Old Canterbury Road, William Street, Brown Street and Longport Street and will require coordination
- Further to discussions with Rail Corp; where services are located near rail corridor boundary the easement cannot encroach into rail corridor.
- Portions of structure/development within zone of influence of services will require piling.
- Relocate sewer and stormwater along Hudson Street and along rail corridor boundary within site. This option has similar issues as the above option.
- Marrickville Council Stormwater
  - Stormwater connects to Sydney Water stormwater at Brown Street and would require relocation as per relocation of Sydney water services.
- Telstra
  - Located primarily on Brown and William Street
- Jemena Gas
  - Located primarily on Brown and William Street

## 5.0 Rail Impact Requirements

### 5.1 Director General Requirements

Director General's requirements include the following:

- *Provide cross sectional drawings showing ground surface, rail tracks, sub soil surface profile, proposed basement excavation and structural design adjacent to the rail corridor.*

Refer Appendix E for indicative Cross sections. Given a setback of 10 m from rail corridor boundary to building envelope it is expected that excavation depths will generally be minimal and footings for building can be placed as shown in Appendix E Sections "B" and "C" assuming a 1:2 zone of influence. Where this is not achievable the use of a pile retaining wall system or temporary sheet piling may be required (refer Appendix E Section "A"). It is noted in the preliminary geotechnical report (Appendix G) that excavations should be adopted that limit ground vibrations at the adjoining properties including railway land where building are sensitive to vibrations.

- *Provide a survey locating the development with respect to the rail boundary and infrastructure.*

Note that on the current survey (StrataSurv Drawing No. 159301 Rev E) the following is noted; "relationship of improvements and detail to boundaries is diagrammatic and if critical should be confirmed by a further boundary survey". Discussions with StrataSurv indicated that boundary locations were most probably accurate to within 50 mm. It is also noted that no services search was undertaken to locate services for current existing survey. It could therefore be considered prudent for further surveying to be undertaken.

- *Balconies and windows within 20 m of the rail corridor must be designed to prevent objects being thrown onto Rail Corp facilities.*

Detailed design of balcony screens and window schedules to be included in detailed architectural documentation.

- *All landscaping and fencing within 20 m of rail corridor must meet Rail Corp's requirements.*

The western boundary of the proposed development is a common boundary with Rail Corp land. It is understood, from discussions with Rail Corp, that fencing will be required to be 0.5 m to 1 m offset from boundary. Fences are to be in accordance with Rail Corp Standard ESC 510 and applicable Australian Standards. Details of fence are required to be submitted to Rail Corp for their approval.

- *The portion of the development along the rail corridor must be designed and constructed to meet the redundancy requirements or the minimum collision loads specified in AS 5100.*

Given that no structure is within 20 m from the centre of the existing rail line and ground levels generally grade upwards towards boundary it is expected that design for collision loads will not be required as per requirements of AS 5100.

- *Stormwater drainage from the site is not allowed to be discharged into the rail corridor.*

Surface drainage along the rail corridor boundary will drain away from boundary to pits to be incorporated into site drainage system.



## 5.2 Rail Corp Requirements

Further to a meeting with Rail Corp the following documents were provided as being applicable to the current project:

- A guide to working in and around the rail corridor, November 2005
- ESC 380 External Developments, Version 2.1, May 2009
- ESC 510 Boundary Fences, September 2005
- Developments and Rail Crossings Application Form for External Third Parties Information Package, Public Version November 2008
- Brief for review of geotechnical & structural design for developments adjacent to or above rail corridor for external third party works performed under the NSW State Environment Planning Policy (Infrastructure) 2007, July 2009

These documents should be read in conjunction with this report and are attached in Appendix C.

Further to review of documentation provided by Rail Corp, and our subsequent meeting, the following issues have been raised in addition to the Director General's requirements for Environmental Assessment and subsequent Project Approval.

- Submission of Developments and Rail Crossings Application Form for External Parties.
- Application for access within rail corridor to remove existing structure. This may be required prior to Construction Certificate.
- Future maintenance of structure/development adjacent to rail corridor boundary. It was noted that part of this requirement is that fencing would be required to be 0.5 m to 1.0 m offset from boundary.
- Access to rail corridor via Hudson Street is to be maintained at all times including during construction.
- Developer is required to eliminate the potential impacts of stray currents and electrolysis on the proposed development.
- Rail Corp noted that existing surveys for rail corridor may be out of date and further survey may be required including survey of Rail Corp infrastructure.
- Additional to survey of track location a survey of Rail Corp infrastructure may be required.

From our discussions with Rail Corp it is understood that given the Project Application is under Part 3A of the Environment Planning Assessment Act then Rail Corp will submit conditions to be included as part of Minister for Planning's Project Approval conditions. Some of Rail Corps stipulated conditions will be as follows:

- Construction Methodology
- Demolition requirements within rail corridor

## 6.0 Flood and Drainage Requirements

### 6.1 Director General Requirements

Director General's requirements include the following:

- *Provide an assessment of any flood risk on site in consideration of any relevant provisions of the NSW Floodplain Development Manual (2005) including potential effects of climate change, sea level rise and an increase in rainfall intensity.*

Marrickville Council's map of flood affected properties shows that the proposed development does not lie in a flood affected area (refer Appendix F). Further to discussion with Council, none of the formally adopted studies within the Cooks River area to date have accounted for potential effects of future increases in sea level or rainfall intensities. We understand that a new Cooks River flood study is soon to be adopted which does include these potential effects. Given the location of the development at approximately RL 10.0 it is considered that the site will not be in a flood affected area when these potential effects are considered.

- *The Environmental Assessment shall address drainage issues associated with the development/site including: stormwater, drainage infrastructure and incorporation of Water Sensitive Urban Design measures.*

Where there is a 10 metre setback from the rail corridor boundary, the setback area could be used for bio retention swales; however, given the nature of the site a proprietary system may be more effective to achieve Water Sensitive Urban Design measures.

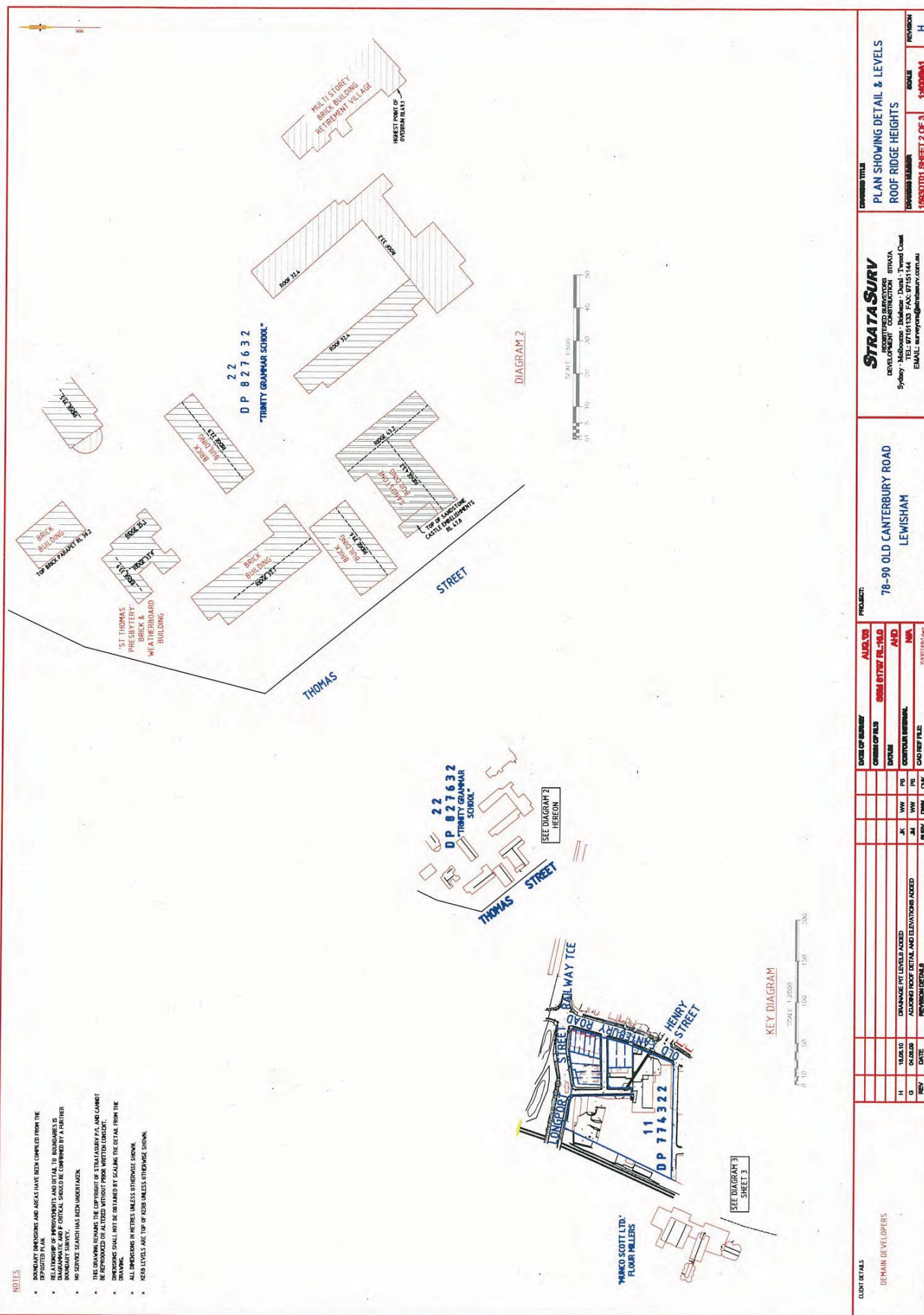
On Site Detention for site is required to be in accordance with Marrickville Council's Stormwater and On Site Detention Code.

We trust the above has been of assistance. Should you require further advice or clarification of any of the above please do not hesitate contact us.

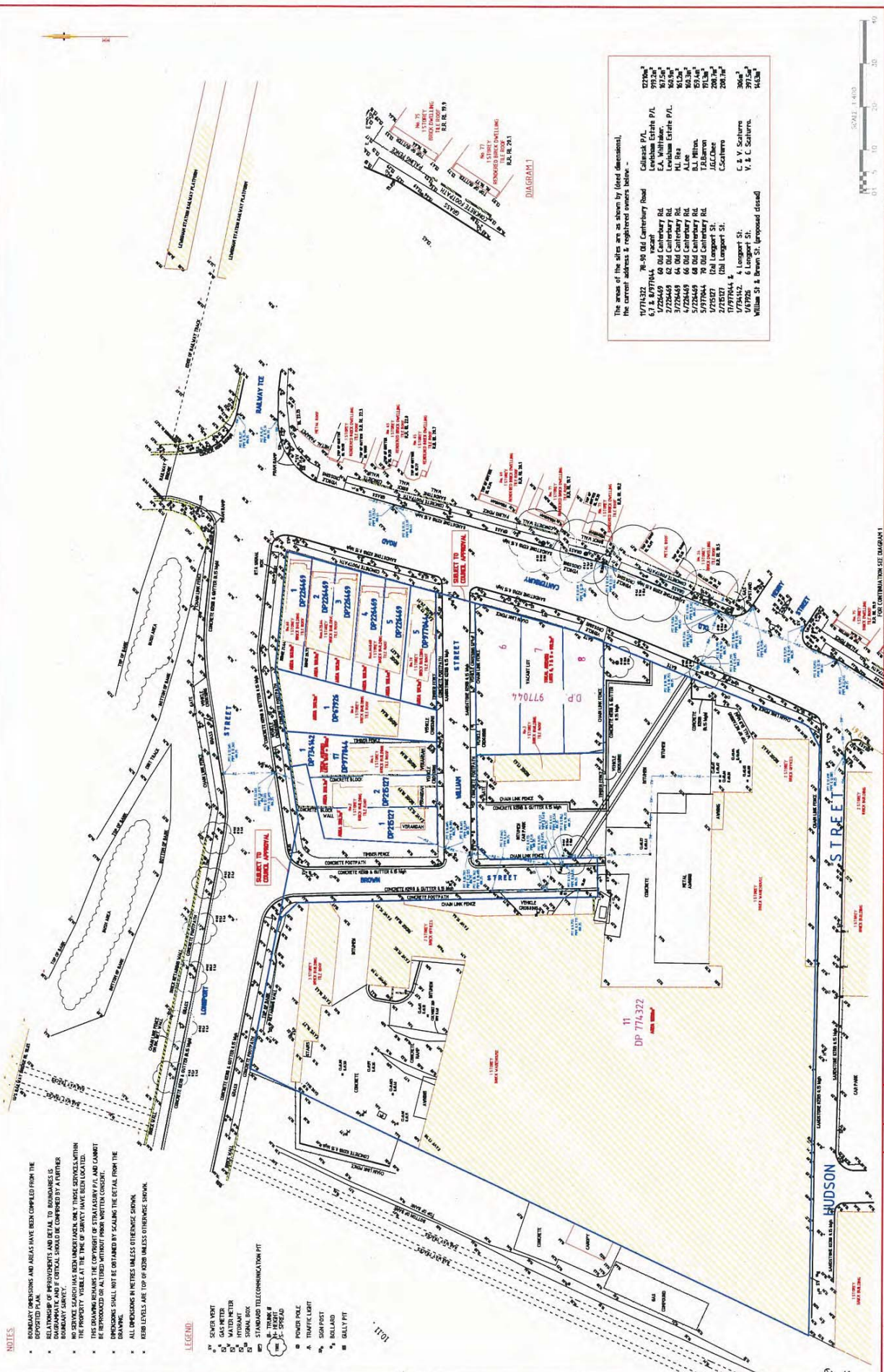


# Appendix A

## Existing Survey





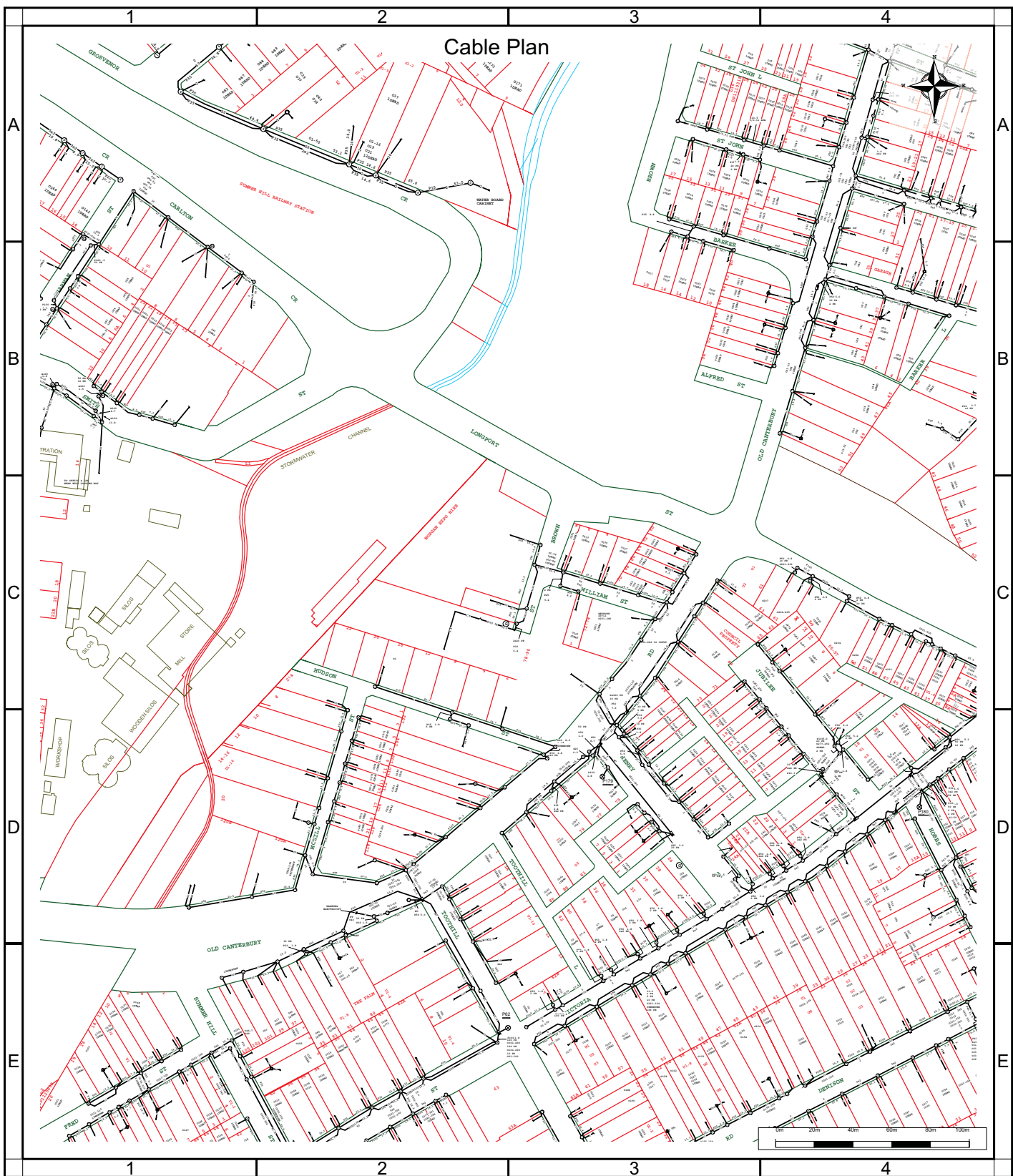







# **Appendix B**

## **Services Location Plans**



	<p>For all Telstra DBYD plan enquiries - email - <a href="mailto:Telstra.Plans@team.telstra.com">Telstra.Plans@team.telstra.com</a> For urgent onsite contact only - ph 1800 653 935 (bus hrs)</p>	<p>Sequence Number: 17235095</p>
<p>Telstra Corporation Limited A.C.N. 051 775 556</p> <p>Generated On 26/11/2009 14:59:37</p>		<p>Exchange Area: PETE</p>

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

**WARNING** - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.





**Accredited Plant Locaters:**

Name and Address	Phone Number	Ask for:
Abitek Pty Ltd - Rouse Hill	Ph:02 88147899 Fax:02 88147855 Mob:0413 327 243	Braden Tynan
Action Locating	02 9671 5600 0415 228 466	Matthew Tynan
Austerberry Directional Drilling Services	0405 504 315	Bob Reynolds
Australian Locating Services	130076 1545 0412 227 434	Scott Hogan
Barry Bros Specialised Servcies	Mob: 0433 500 405 Ph: 02 8723 8777 Fax 02 977 3 0777	Chris Gaven
Bradmac Locating Services - Springwood	Ph: 02 47543626 Fax: 02 47543735 Mob: 0434 157 409	Brad McCorkindale
Concrete & Ground Penetrating Radar	0417 223 433	Mark Devine
Civilscan Pty Ltd	Mob: 0416 068 060	Doug Dean
Daley Boring Pty Ltd	Mob: 0409 244 670 Fax: 02 4655 4647	Michael Daley
D & K Vacuum Excavation	02 47292428 0422 764 271	Dwayne Miller
Dig Smart - Vacuum Potholing Services	0433 213 045	(James) Scott Harris
Down Under Consulting	Ph: 02 948 492 73 Fax: 02 998 023 95 Mob: 040 815 0345	Ashleigh Ferris
Duds	0418 267 964	Philip Pegler
Durkin Construction Pty Ltd- Sydney	Ph: 02 97120308 Fax: 02 97120206 Mob: 0413158255	Sean & Jane Durkin
Excavac Potholing	Mob: 0414 521 808 Fax: 02 4631 1450	Peter Lawrence
JFTA Pty Ltd	02 82138677	Trevor Ormond
Line-tel Pty Ltd	02 9601 8472 0418 677 809	Dominic Cannon Sam Nicoletti
Locaters	0418 262 025	Paul Forbes
Locating Tracing Services	0417 147 945 02 8824 6654 (A.H)	Darryl Critcher
On Line Pipe & Cable Locating	02 98312750	Barry Maloney
Optical Technologies Pty Ltd	02 9501 4922 0402 354 322	Bruce Whittaker
Point Locations	02 4284 1532 02 4268 4812 0417 683 939	Troy Stanning
Power Serve Pty Ltd - Newcastle	0402 696 535	Murray Oldham
Protech Plumbing	02 9542 8820 0418 971 587	Glenn East
Barry Schultz Fibre & Pipe Locations	02 88147233 0416 068 060	Barry Schultz
Saturn Pty Ltd	02 9555 2505 0414 555 617	Murray Schultz
Sinclair Knight Mertz	02 99282176 0422 6674 81	Phillip Layton
Sydwide Concrete Saw & Pipe Locators	02 9822 8228 0407 433 580	Tony Stojanovski

**Accredited Plant Locaters:**

Name and Address	Phone Number	Ask for:
Abitek Pty Ltd - Rouse Hill	Ph:02 88147899 Fax:02 88147855 Mob:0413 327 243	Braden Tynan
Action Locating	02 9671 5600 0415 228 466	Matthew Tynan
Austerberry Directional Drilling Services	0405 504 315	Bob Reynolds
Australian Locating Services	130076 1545 0412 227 434	Scott Hogan
Barry Bros Specialised Servcies	Mob: 0433 500 405 Ph: 02 8723 8777 Fax 02 9773 0777	Chris Gaven
Bradmac Locating Services - Springwood	Ph: 02 47543626 Fax: 02 47543735 Mob: 0434 157 409	Brad McCorkindale
Concrete & Ground Penetrating Radar	0417 223 433	Mark Devine
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D & K Vacuum Excavation	02 47292428 0422 764 271	Dwayne Miller
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Duds	0418 267 964	Philip Pegler
Durkin Construction Pty Ltd- Sydney	Ph: 02 97120308 Fax: 02 97120206 Mob: 0413158255	Sean & Jane Durkin
Excavac Potholing	Mob: 0414 521 808 Fax: 02 4631 1450	Peter Lawrence
Hunter Smith Management PtyLtd	Ph/Fax: 02 9634 8684 Mob: 0422 224 761	Doug Smith
JFTA Pty Ltd	02 82138677	Trevor Ormond
Line-tel Pty Ltd	02 9601 8472 0418 677 809	Dominic Cannon Sam Nicoletti
Locaters	0418 262 025	Paul Forbes
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On Line Pipe & Cable Locating	02 98312750	Barry Maloney
Optical Technologies Pty Ltd	02 9501 4922 0402 354 322	Bruce Whittaker
Pied Piper Cable & Pipe Locaters	02 88147233 0416 068 060	Barry Schultz
Point Locations	02 4284 1532 02 4268 4812 0417 683 939	Troy Stanning
Power Serve Pty Ltd - Newcastle	0402 696 535	Murray Oldham
Protech Plumbing	02 9542 8820 0418 971 587	Glenn East
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Sinclair Knight Mertz	02 99282176 0422 6674 81	Phillip Layton
Sydwide Concrete Saw & Pipe Locators	02 9822 8228 0407 433 580	Tony Stojanovski

# DUTY OF CARE



## **IMPORTANT:**

- Please read and understand all the information and disclaimers provided below.
- Sketches and Plans provided by Telstra 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.
- Due to the nature of Telstra plant and the age of some cables and records, it is impossible to ascertain the location of all Telstra plant. The accuracy and/or completeness of the information can not be guaranteed and, accordingly Telstra 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 Telstra plant. Telstra will provide 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 Telstra plant for a particular location at a reasonable time before construction begins.
  - b) Visually locate Telstra plant by hand digging (pot-holing) where construction activities may damage or interfere with Telstra plant (see "Essential Precautions and Approach Distances" section for more information).
  - c) Contact Telstra's **Network Integrity Group** (see below for details) if Telstra plant is wholly or partly located near planned construction activities.

## **DAMAGE:**

**ANY DAMAGE TO TELSTRA'S NETWORK MUST BE REPORTED TO 132203 IMMEDIATELY.**

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

## **CONCERNING TELSTRA PLANS:**

- **Phone 1100 - Dial Before You Dig** for plans of Telstra plant locations. Please give at least 2 business days notice.
- Telstra plans and information provided are **valid for 60 days** from the date of issue.
- 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. The plans and details should be disposed of by shredding or any other secure disposal method after use.
- Telstra plans or other details are provided only for the use of the applicant, its servants, or agents. **The applicant may not give the plans or details to other parties, and may not generate profit from commercialising the plans or details.**
- Please contact the **Network Integrity Help Desk** (see below for details) 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 your construction phase.

## **ESSENTIAL PRECAUTIONS and APPROACH DISTANCES:**

**NOTE:** If the following clearances cannot be maintained, please contact the Network Integrity 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 Telstra's plant, **carefully locate this plant first** to avoid damage. Undertake prior manual exposure such as potholing when intending to excavate or work **closer** to Telstra plant than the following approach distances.

- Where Telstra's 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:
  - a) Parallel to major plant: 10 metres (for IEN, optic fibre and copper cable over 300 pairs)
  - b) Parallel to other plant: 5 metres
- Note: Even manual pot-holing needs to be undertaken with extreme care, commonsense 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.
- If construction work is parallel to Telstra plant, then careful hand digging (pot-holing) at least every 5m is required to establish the location of all plant, hence confirming nominal locations before work can commence.

2. Maintain the following minimum clearance between construction activity and **actual location** of Telstra Plant.

<b>Jackhammers/Pneumatic Breakers</b>	<i>Not within 1.0m of <b>actual location</b>.</i>
<b>Vibrating Plate or Wacker Packer Compactor</b>	<i>Not within 0.5m of Telstra ducts. 300mm compact clearance cover before compactor can be used across Telstra ducts.</i>
<b>Boring Equipment (in-line, horizontal and vertical)</b>	<i>Not within 2.0m of <b>actual location</b>. Constructor to hand dig (pot-hole) and expose plant.</i>
<b>Heavy Vehicle Traffic (over 3 tonnes)</b>	<i>Not to be driven across Telstra ducts (or plant) with less than 600mm cover. Constructor to check depth via hand digging.</i>
<b>Mechanical Excavators, Boring and Tree Removal</b>	<i>Not within 1.0m of <b>actual location</b>. Constructor to hand dig (pot-hole) and expose plant.</i>

- All Telstra pits and manholes should be a minimum of 1.2m in from the back of kerb after the completion of your work.
- All Telstra conduit should have the following minimum depth of cover after the completion of your work:-
- **Footway 450mm**
- **Roadway 450mm at drain invert and 600mm at road centre crown**
- For clearance distances relating to Telstra pillars, cabinets and RIMs/RCMs please contact the Network Integrity Help Desk (see below for details).

### **FURTHER ASSISTANCE:**

Over-the-phone assistance can be obtained by calling the **Network Integrity Help Desk**.

Where on-site location is provided, the owner is responsible for all hand digging (pot-holing) to visually locate and expose Telstra plant.

If plant location plans or visual location of Telstra plant by digging reveals that the location of Telstra plant is situated wholly or partly where the owner plans to work, then **Telstra's Network Integrity Group** must be contacted through the **Network Integrity Help Desk** to discuss possible engineering solutions.

### **NOTE:**

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 or constructor. 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.

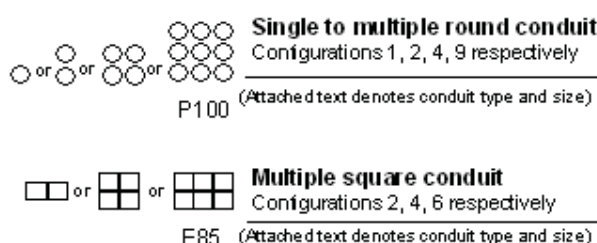
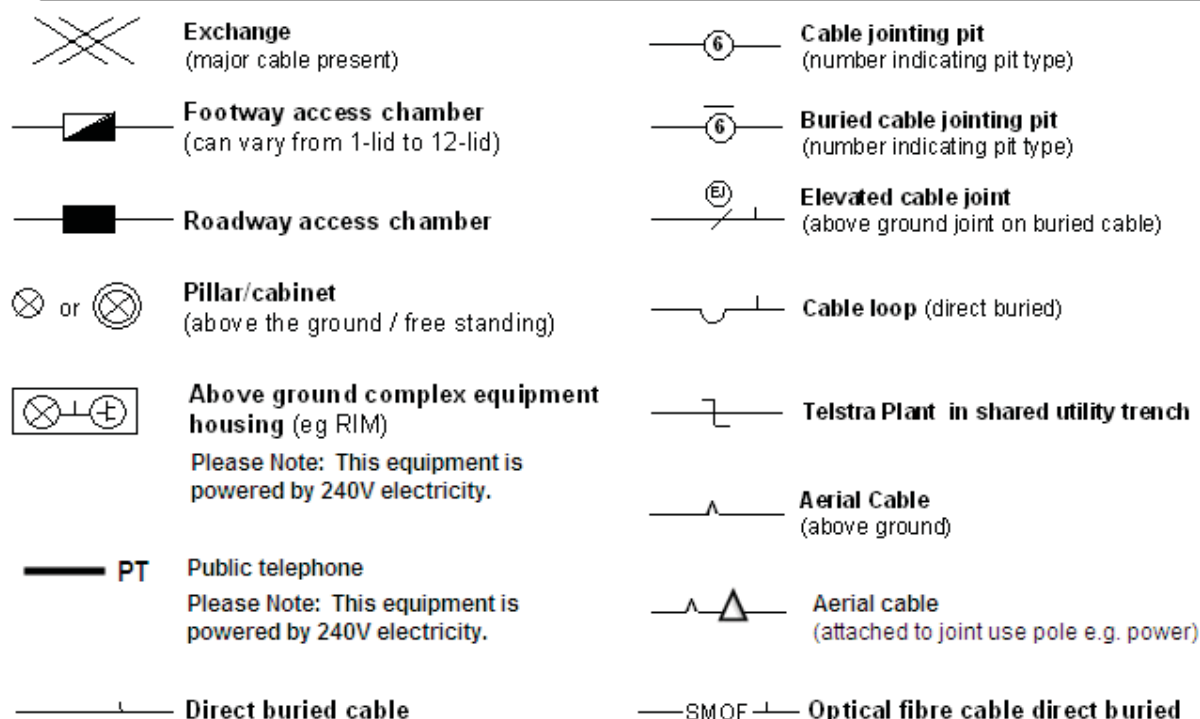
### **RURAL LANDOWNERS - IMPORTANT INFORMATION**

Where Telstra owned cable crosses agricultural land, Telstra 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 Network Integrity Helpdesk Officer as listed above.

### **PRIVACY NOTE**

## A GUIDE TO READING PLANS

Telstra Corporation Limited  
ABN 33 05 1775 556



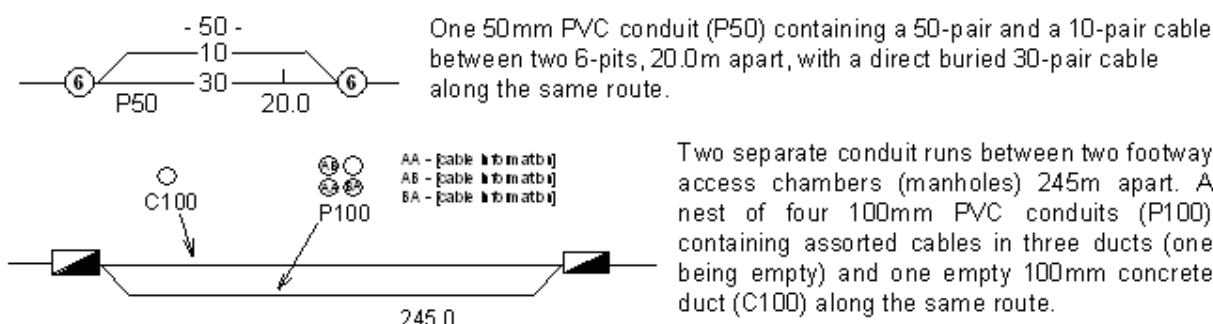
### Some examples of conduit type and size:

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

## Some examples of how to read Telstra plans:



**WARNING:** Telstra's 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 Telstra 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 Telstra cables and plant. Before using machine excavators TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG (potholing) to identify its location.

Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

## ACCREDITED PLANT LOCATORS (For your area)

On-site assistance should be sought from an **Accredited Plant Locator** 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 Telstra 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 Telstra plant is outside a recognised road reserve Telstra recommends that the **Network Integrity Help Desk** is contacted for assistance prior to engaging an Accredited Plant Locator.

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

- review Telstra's plans to assess the approximate location of Telstra plant;
- advise owners of the approximate location of Telstra plant according to the plans;
- advise owners of the best method for locating Telstra plant;
- advise owners of the hazards of unqualified persons attempting to find the exact location of Telstra plant and working in the vicinity of Telstra plant without first locating its exact position.
- perform trial hole explorations by hand digging (pot-holing) to expose Telstra plant with a high degree of skill, competence and efficiency and utilising all necessary safety equipment.

Telstra has provided a number of contractors with certification as an Accredited Plant Locator.

**A list of Accredited Plant Locaters operating in your area is attached. Accredited Plant Locaters are certified by Telstra to perform the tasks listed above. Owners may engage Accredited Plant Locaters to perform these services, however Telstra does not give any warranty in relation to these services that Accredited Plant Locaters are competent or experienced to perform any other services.**

The attached list provides the names and contact details for Accredited Plant Locaters who service your area and can provide you with assistance in locating Telstra plant on site. These organisations have been able to satisfy Telstra that they have a sound knowledge of telecommunications plant and its sensitivity to disturbance; appropriate equipment for locating telecommunications plant and competent personnel who are able to interpret telecommunications plans and sketches and understand safety issues relevant to working around telecommunications plant. They are also able to advise you on the actions which should be taken if the work you propose will/could result in a relocation of the telecommunications plant and/or its means of support.

We recommend that you engage the assistance of one of these Accredited Plant Locaters as a step towards discharging your Duty of Care obligations when seeking the location of Telstra's telecommunications plant.

**Please Note:**

1. 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 organisation engaged. Telstra is not a party to any contract entered into between an owner and an Accredited Plant Locator. The Accredited Plant Locaters are able to provide guidance concerning the extent of site investigations required.
2. Payment for the site assistance will be your responsibility and payment details should be agreed before the engagement is confirmed.
3. Telstra does not accept any liability or responsibility for the performance of or advice given by an 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.
4. Each Accredited Plant Locator has been issued with a certificate which confirms the Accreditation. Each year Telstra will reassess the accreditation and where appropriate will issue a letter confirming the accreditation for the next calendar year. You have the right to request the organisation you engage to show evidence of this certificate and its currency.
5. The Accredited Plant Locator is required to service each engagement with the personal attendance of at least one accredited employee who has satisfactorily completed a Telstra approved employee accreditation training course. These people will carry a certification card issued by Telstra.
6. Neither the Accredited Plant Locator nor any of its employees are an employee or agent for Telstra and Telstra is not liable for any damage or loss caused by the Accredited Plant Locator or its employees.
7. The attached list contains the current names and contact details of Accredited Plant Locaters who service your area, however, these details are subject to change.

**Accuracy of plans not to be assumed – see Clause 4.  
Plans not for conveyancing purposes.**



## ATTENTION

The accompanying plan(s) in relation to Sydney Water's pipelines are forwarded in response to your recent Dial Before You Dig enquiry. Please note the following important information and bases upon which the plan(s) are issued:

1. The accompanying plans have been generated by an automated system. The plans should cover the area highlighted in the Locality Indication Only window on your Caller Confirmation. It is that defined area which is used to automatically generate the plans and not UBD or address information or any free text information provided to Dial Before You Dig. It is important therefore that you be accurate in defining your dig site when you lodge your enquiry with Dial Before You Dig. It is the enquirer's responsibility to resubmit the enquiry to Dial Before You Dig if the information supplied does not match the proposed dig site.
2. Plans indicate the general position of Sydney Water's pipelines and associated structures and fittings (pipelines) **at the time of their construction**. Sydney Water does NOT guarantee that all its existing pipelines are shown on the plans (Particular care should be exercised in newer developments as pipeline details may not yet have been supplied to Sydney Water). Plans have NOT necessarily been adjusted to reflect any subsequent changes to surface levels road alignments fences buildings and the like. Pipeline locations are approximate and accordingly the plans are NOT suitable for scaling purposes.
3. Plans do NOT show locations of property services (often called house service lines) belonging to and/or serving individual customers and which are usually connected to Sydney Water's pipelines.
4. The plans have been prepared and are only intended for Sydney Water's own use. Sydney Water does not supply the plans on a commercial basis because it cannot and will not warrant their accuracy or completeness. It supplies them free of charge only with a view to reducing the very real risk of inadvertent damage being caused to its pipelines. Accordingly Sydney Water accepts no liability for any inaccuracies in the information or lack of information on the plans.
5. To determine their precise location Sydney Water's pipelines MUST first be exposed by pot-holing using hand-held tools or vacuum techniques i.e. **before** any mechanical means of excavation are employed.
6. Asbestos cement pipelines may form part of Sydney Water's water and sewerage reticulation systems and if damaged can pose a risk to health.
7. Persons excavating in the vicinity of Sydney Water's pipelines MUST exercise care and suitably protect Sydney Water's pipelines. Protection may include timbering sheet piling support and/or bracing or tommying to prevent movement.
8. Any movement in a pipeline could result in joint failure flooding and death or injury to persons (in addition to damaged assets). The protection of Sydney Water's pipelines benefits the safety of workers.
9. Constructors are legally responsible for any damage and financial loss resulting from their interfering with Sydney Water's pipelines. **In an emergency, call 13 20 90 (24 hours, 7 days).**
10. Minimum clearances MUST be maintained between Sydney Water's pipelines and underground services belonging to other parties.
11. Plans MUST be approved by Sydney Water (usually signified by stamping) prior to landscaping and/or building over or adjacent to any Sydney Water asset.
12. Backfilling of excavation work in the immediate vicinity of Sydney Water's pipelines MUST comply with Sydney Water's standards.

Further information and guidance is available on Sydney Water's website at [www.sydneywater.com.au](http://www.sydneywater.com.au) *Building and Development* where the following documents can be found under *Dial Before You Dig*:

- Avoid Damaging Water and Sewer Pipelines
- Water Main Symbols
- Sewer Symbols
- Depths of Mains
- Guidelines for Building Over Adjacent to Sydney Water Assets
- Clearances Between Underground Services

**or call 13 20 92 for Customer Enquiries.**

### NOTE:

If you lodged your enquiry via telephone or facsimile be aware that on-line enquiries 24 hours per day 7 days per week to [www.dialbeforeyoudig.com.au](http://www.dialbeforeyoudig.com.au) will enable you to receive colour plans in .pdf format 24/7 via email.

If you have any questions concerning DB/D requests call (02) 8849 3800 Monday to Friday between 8 am and 4 pm.

NOT CE: This communication is confidential. If you are not the nominated recipient please destroy all copies immediately. Sydney Water Corporation prohibits unauthorised copying and/or distribution of this communication.

# Hydra Legend

## Sewer

Sewer Main (with flow arrow & size type annotation)	
Disused Main	
Pressure Main (Rising Main)	
Maintenance Hole with upstream depth to invert	
Terminal Maintenance Shaft	
Maintenance Shaft	
Maintenance Hole with Overflow Weir	
Rodding Point	
Ventshaft INDUCT	
Ventshaft EDUCT	
Vertical	
Lamphole	
Property Connection Point (with chainage to downstream MH)	
Concrete Encased Section	
Sewer Rehabilitation	
Pumping Station	
Sewer Mining	

## Sewer - Low Pressure Sewer

Low Pressure Sewer Main	
Pump Unit (Alarm, Electrical Cable, Pump Unit)	
Property Valve Boundary Assembly	
Stop Valve	
Reducer / Taper	
Flushing Point	

## Sewer - Vacuum

Vacuum Sewer Main	
Divisional Valve	
Vacuum Chamber	
Clean Out Point	

## Stormwater

Stormwater Pipe	
Stormwater Channel	
Stormwater Gully	
Stormwater Maintenance Hole	

## Property Details

Boundary Line	
Lot Number	
House Number	
Development Application Reference	
Location of SWC Heritage item - Please call 13 20 92 during office hours and ask for the Heritage Unit.	

## Water

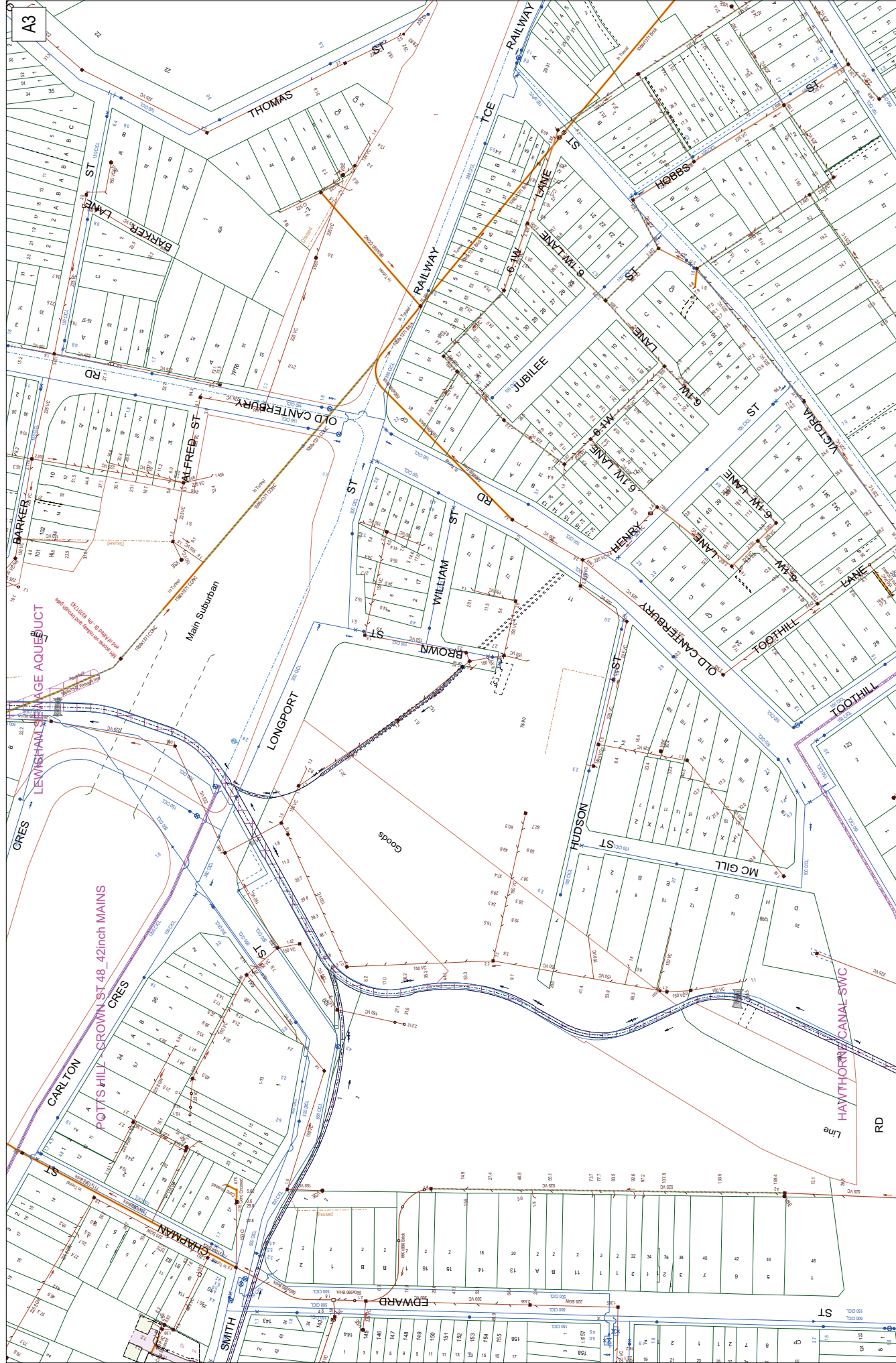
Water Main - Potable (with size type annotation)	
Disconnected Main - Potable	
Proposed Main - Potable	
Water Main - Recycled	
Special Supply Conditions - Potable	
Special Supply Conditions - Recycled	
Restrained Joints - Potable	
Restrained Joints - Recycled	
Hydrant	
Maintenance Hole	
Stop Valve	
Stop Valve with By-pass	
Stop Valve with Tapers	
Closed Stop Valve	
Air Valve	
Valve	
Scour	
Reducer / Taper	
Vertical Bends	
Reservoir	
Symbols for Recycled Water as per Potable above. Main and Symbol colour as indicated.	

## Private Mains

Potable Water Main	
Recycled Water Main	
Sewer Main	
Symbols for Private Mains shown grey. Main colour as indicated.	

## **PIPELINE MATERIAL ABBREVIATIONS**

<b>ABBREVIATION</b>	<b>INTERPRETATION</b>
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
EPDM	ethylene propylene diene monomer
EW	earthenware
FIBG	fibreglass
FL BAR	forged locking bar
GI	galvanised iron
GRP	glass reinforced polyester
HDPE	high density polyethylene
MS	mild steel
MSCL	mild steel cement lined
PE	polyethylene
PP	polypropylene
PVC	polyvinylchloride
PVC-M	polyvinylchloride modified
PVC-O	polyvinylchloride oriented
PVC PW	polyvinylchloride profile wall
PVC SW	polyvinylchloride smooth wall
PVC-U	polyvinylchloride unplasticised
RC	reinforced concrete
S	steel
SCL	steel cement (mortar) lined
SGW	salt glazed ware
SS	stainless steel
STONE	stone
VC	vittrified clay
WI	wrought iron
WS	woodstave







20

300



Map Zoom: 216.4 m

For Publication: CDA 04 709

Map Projection: GDA-94, Zone

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{Title}  
{SubTitle}  
**Legend**

-  Rail Station
-  Street Names
-  House Numbers
-  Pipe Diameter
-  Railway Line
-  Lines
-  Pits
-  Pipeline
-  Kerb
-  Contour 2m
-  Cooks River Flood Zone
-  Local Flood Affected Properties
-  Land Parcels
-  Property
-  Suburbs
-  Aerial Photo (Jan., 2007)

Map Zoom: 216.4 m

**Map Projection: GDA-94, Zone-56**  
Created by Engineering on Monday, 16 November 2009

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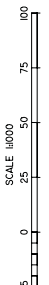
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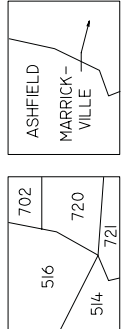
# LEIGHARDT 5CB



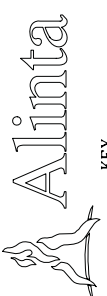
THIS MAP UPDATED ON 16/08/04  
THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES  
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.

LESAC	LE5AD	LE6BC
LESCA	LE5CB	LE5DA
LESCC	LE5CD	LE5DC

ADJOINING MAPS

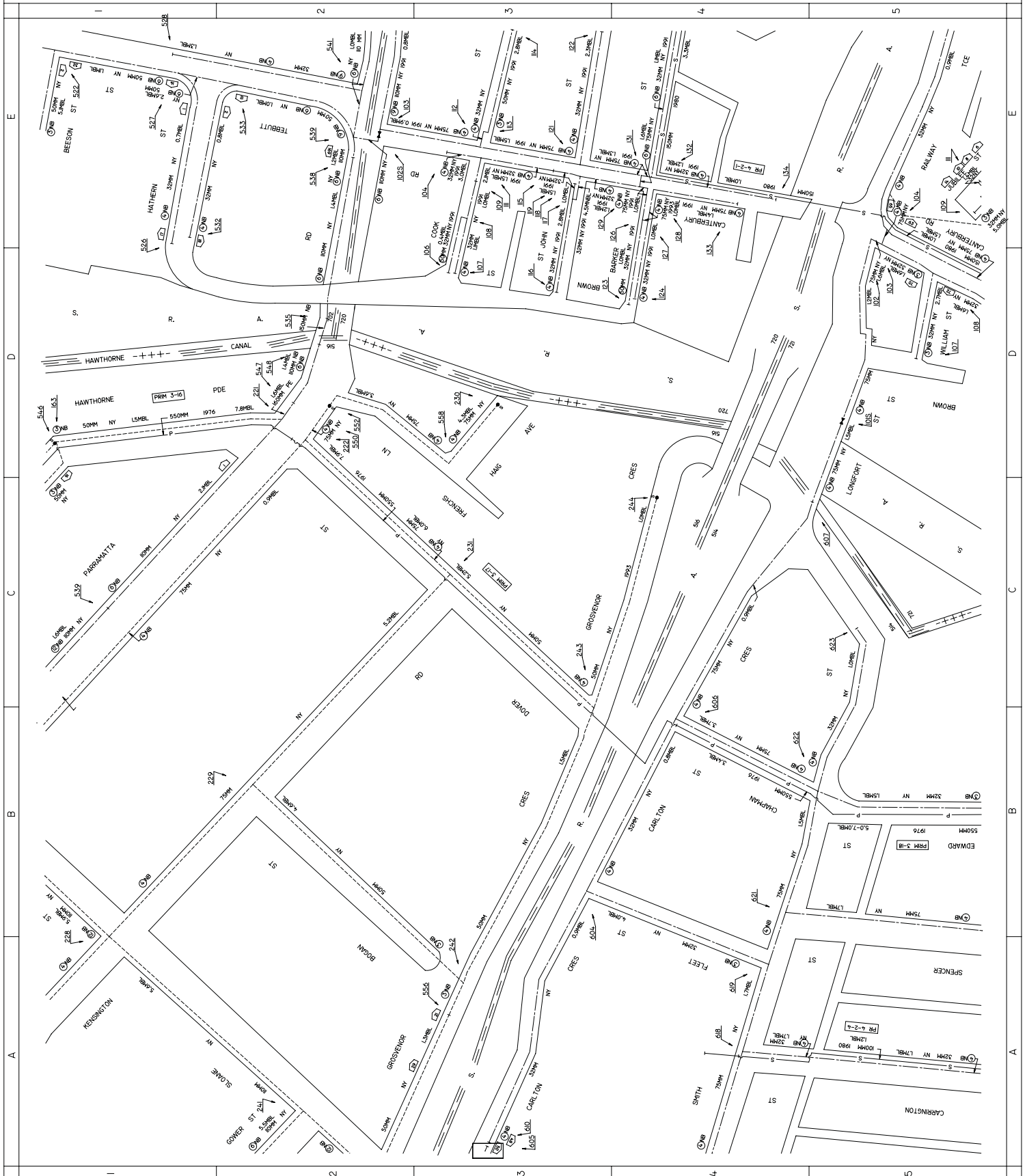


NETWORK AREA MUNICIPALITY AREA



## KEY

- MAX ALLOWABLE OPERATING PRESSURE
- TRUNK MAIN 7000 kPa
  - PRIMARY MAIN 3500 kPa
  - SECONDARY MAIN 1050 kPa
  - 300 kPa
  - 200 kPa
  - 7 kPa
  - 100 kPa
  - 2 kPa
- PROPOSED MAINS
- STEEL MAIN PROJECT NUMBER
  - PRESSURE MONITORING STATION
  - VALVE
  - SYSTEM PRESSURE REGULATOR
  - SEPHON
  - NETWORK NODES
  - ITEM DETAIL SKETCH AVAILABLE
  - VALVE NUMBER (OLD NUMBERING)
  - 6 INCH CAST IRON MAIN
  - 100MM STEEL MAIN
  - 100MM POLYETHYLENE/NYLON MAIN
  - 50MM NYLON CAST IRON MAIN
  - 50MM NYLON CAST IRON MAIN
  - DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M)
  - YEAR LAID
  - 1957
  - MUNICIPALITY BOUNDARY
  - NETWORK BOUNDARY
  - HOUSE NUMBER
- LEIGHARDT 5CB



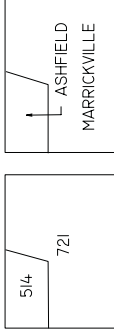
# LEIGHARDT 5CD



THIS MAP UPDATED ON 01/09/03  
THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES  
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.

LE5CA	LE5CB	LE5DA
LE5CC	LE5CD	LE5DC
LE8AA	LE8AB	LE8BA

ADJOINING MAPS



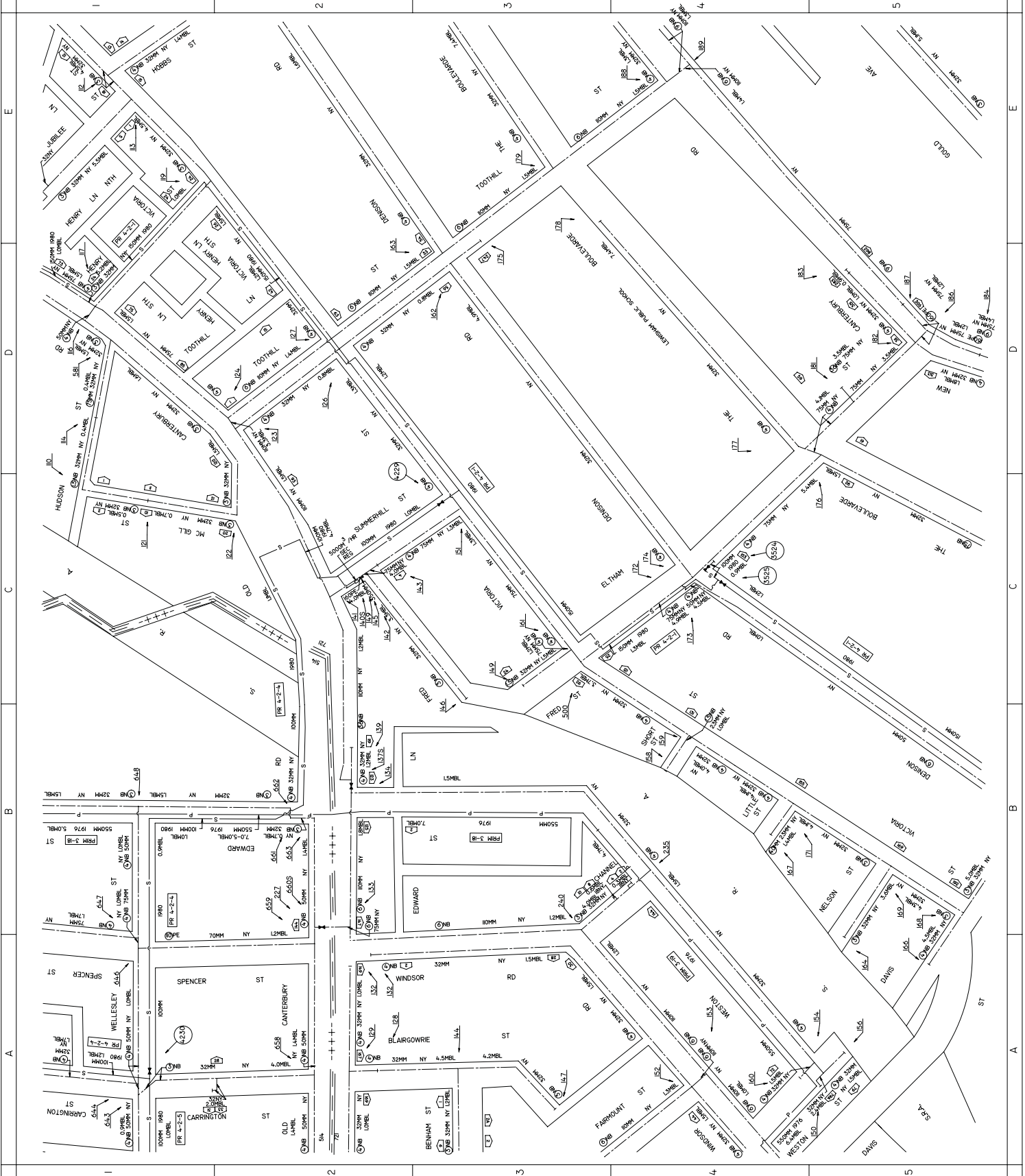
NETWORK AREA



## KEY

MAX ALLOWABLE OPERATING PRESSURE	
TRUNK MAIN	7000 kPa
PRIMARY MAIN	3500 kPa
SECONDARY MAIN	1050 kPa
	300 kPa
	200 kPa
	7 kPa
	400 kPa
	100 kPa
	2 kPa

PROPOSED MAINS	
STEEL MAIN PROJECT NUMBER	PR 4-2-3
PRESSURE MONITORING STATION	PM 3-8
VALVE	1
SYSTEM PRESSURE REGULATOR	SR
SEPHON	S
NETWORK NODES	1
ITEM DETAIL SKETCH AVAILABLE	1
VALVE NUMBER (OLD NUMBERING)	1
6 INCH CAST IRON MAIN	6NB
150MM STEEL MAIN	150NB
100MM POLYETHYLENE/NYLON MAIN	100NB PE/NY
50MM NYLON INSERTED INTO	50NB NYLON
6NB MAIN CAST IRON MAIN	6NB
DISTANCE IN METRES OF MAIN FROM	12MBL
BUILDING LINE (TOLERANCE OF 0.4M)	1957
YEAR LAID	1957
MUNICIPALITY BOUNDARY	---
NETWORK BOUNDARY	---
HOUSE NUMBER	---
LEIGHARDT 5CD	---





# Network Protection

In reply to your enquiry, there are **High Pressure Gas Mains** at the location of your intended work, as generally illustrated on the attached map. There may also be other gas or other 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:

You **must** contact a Pipeline Technician to conduct a survey **before** commencing any work in this area. You can arrange a survey by contacting the High Pressure Response Coordinator on **1300 665 380**. **(Please note that two working days notice is required to arrange a survey)**. For all works in the vicinity of High Pressure Gas Mains you are required to arrange for a Pipeline Technician to attend. 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.

KEY		
MAXIMUM ALLOWABLE OPERATING PRESSURE		
—T—	TRUNK MAIN	7000 kPa
—P—	PRIMARY MAIN	3500 kPa
—S—	SECONDARY MAIN	1050 kPa
----		300 kPa
-----		210 kPa
-----		7 kPa
—400—		400 kPa
—100—		100 kPa
—30—		30 kPa
———		2 kPa
← — — →	PROPOSED MAINS	
✖	VALVE	
□	SYSTEM PRESSURE REGULATOR	
⋮	SIPHON	
6NB	6 INCH CAST IRON MAIN	
150MM	150MM STEEL MAIN	
110MM PE/NY	110MM POLYETHYLENE / NYLON MAIN	
⑥ NB 50MM NY	50MM NYLON INSERTED INTO 6 INCH CAST IRON MAIN	
1.2MBL	DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M)	
23	HOUSE NUMBERS	
=====	NETWORK BOUNDARY	
123	NETWORK NODES	

**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.

DBYD Admin  
1300 880 906

**In case of Emergency Phone 131 909 (24 hours)**

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





# Working Near EnergyAustralia Cables

Dial Before You Dig  
The life you save, could be yours



## Working Safely.

This brochure gives you a brief overview of **NS156**. It will help you work out what you will need to do to ensure the safety of your staff and the public. This will also help to prevent any disruption to the electrical network.

**NS156** is a Network Standard that contains some very important information on what to do if you are undertaking excavation works.

EnergyAustralia operates a network of electrical power cables throughout Sydney, the Central Coast and Newcastle/Hunter Valley. These cables are critical to the continuous supply of power to all of our customers, including hospitals, schools, and the emergency services. They are also potentially dangerous, if you do not take care while working near them.

## With electricity, it's not 'if', but 'when'.

It is likely that you or someone you work with have been, or will be involved in a life threatening situation. It's never a matter of if, but when. Underground power cables and overhead powerlines are potentially hazardous to every person working around them. All it takes is one lapse in safety or preparedness and someone could be seriously injured or worse. You could face criminal charges and a hefty fine if you negligently damage pipes or cables.

## Every little bit helps.

Forward planning and simple safety precautions are necessary and help to ensure everyone is as safe as possible on your work site, including you.

## Do all power cables look the same?

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





## What other forms do electrical assets take?

It's mainly the method of installation that varies. They may be buried in orange PVC or PE conduits, or even old earthenware or steel pipes. A bank of cables may be covered with electrical bricks, plastic warning markers or protective covers, or nothing at all. If they have to be buried at a reduced depth, they may be covered in concrete slabs or steel plates.



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

Striking power cables while digging can result in serious damage to the cables, as well as posing a safety hazard. There's also safety and environmental risks associated with working near power cables – for example, some cables are installed in asbestos conduits or troughing, and OCPs have been used in some trenches to avoid damage by termites.



## 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.

- Keep a copy of the cable plan on site at all times and discuss this with your staff.
- Have a person trained in resuscitation and a first aid kit on site at all times.
- Wear protective clothing, including safety footwear and safety helmet if required.
- Have appropriate emergency contact numbers on site.
- Set up the appropriate safety barriers, witches hats and warning lights to reduce the risk of injury to the general public.
- Comply with all WorkCover requirements and codes.

## Site Manager = Safety Manager.

The site manager or supervisor is responsible for ensuring that all construction staff are fully aware and compliant with the necessary clearances from exposed live overhead conductors.

To ensure all work complies with environmental legislation and WorkCover requirements, you can refer to:

- **WorkCover Guidelines: Work Near Underground Assets; and**
- **WorkCover Codes of Practice: Excavation Work and Work Near Overhead Powerlines if applicable.**

## Before you start. Stop and look around.

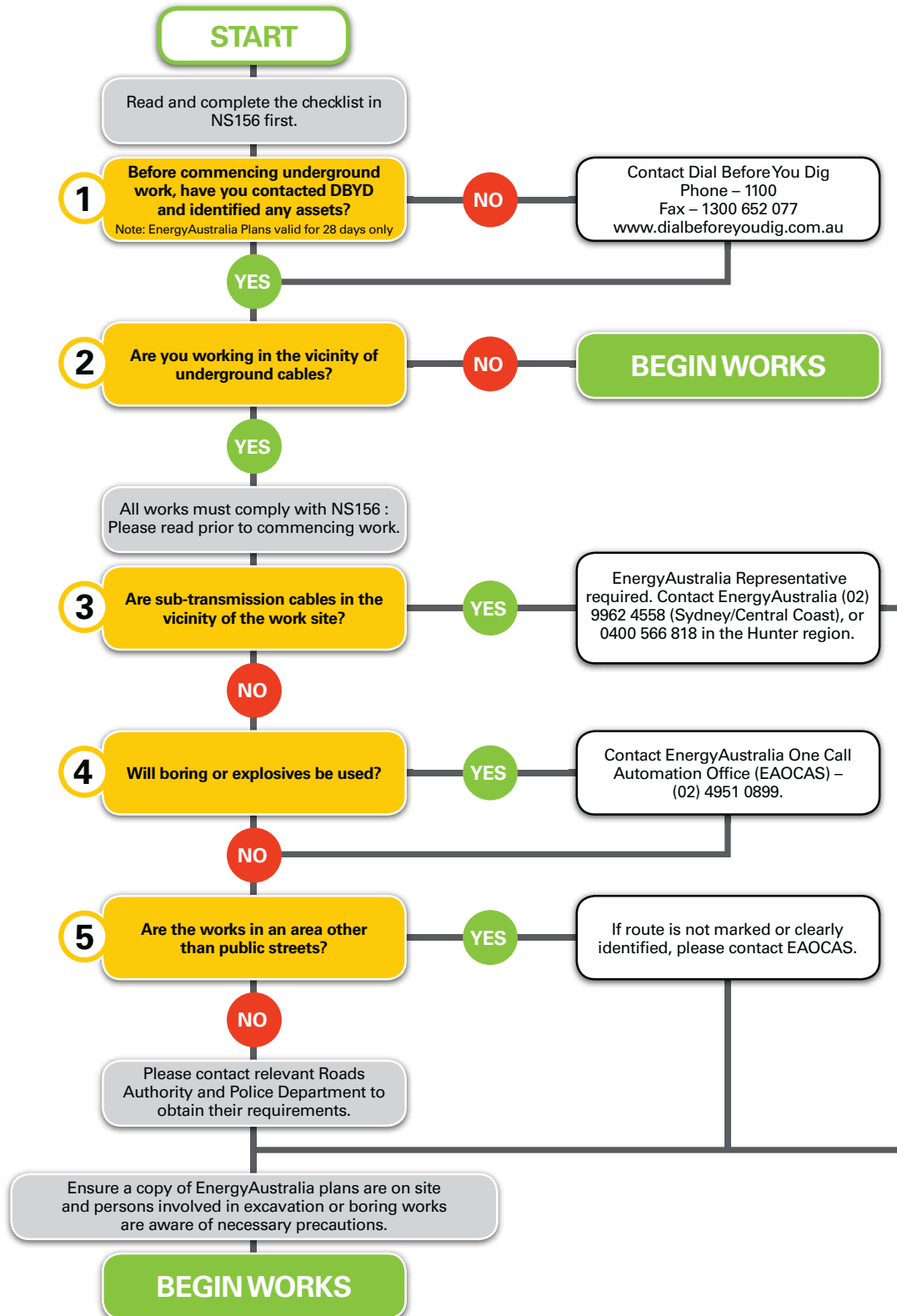
Before you start any work, be sure to look for clues as to where cables might be located on the site: for example pits, distribution pillars (green or other colours), cables attached to the side of poles, street lights without overhead wires.

## It's safer with EnergyAustralia by your side.

When working near transmission cables you **MUST** arrange for EnergyAustralia to provide a representative on site during the works – see **NS156** for details including lead time to arrange the representative.

The attached flow chart includes contact numbers and further information. A checklist has also been provided (see over), to help you ensure you have taken all the appropriate precautions before working near power cables.

## Energy Wise Flow Chart for Work Near EnergyAustralia Cables



## EnergyAustralia 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 the damage to underground networks.

PLANS, LOCATION and NOTIFICATIONS	Completed
Have you obtained all relevant utilities plan by calling "1100" - Dial Before You Dig service? (Allow at least 5 working days for plans).	
Have you examined the plans and assessed all possible impacts on EnergyAustralia's network?	
Do you have both Underground Distribution & Transmission Plans (if applicable), on site at all times?	
Have all cables and conduits shown on the EnergyAustralia 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 obtained a current copy and understood the requirements of EnergyAustralia's Network Standard NS156 Working Near of Around Underground Cables?	
For a copy of NS156 phone the EnergyAustralia One Call Automation (EAOCAS) office at the number indicated on the response to your DBYD enquiry or visit: <a href="http://www.energy.com.au/energy/ea.nsf/Content/Network+Standards">www.energy.com.au/energy/ea.nsf/Content/Network+Standards</a>	
<b>INSPECTION OF WORK BY ENERGYAUSTRALIA'S REPRESENTATIVE</b>	
Where the proposed work is near or around* any sub-transmission cable, is the EnergyAustralia representative on site to observe the work and warn or stop works if they are performed in a manner which may endanger the cables or workers before you start?	
Where the proposed work is near or around* cable other than sub-transmission and/or conduits, are any requirements specified by EnergyAustralia's representative clearly understood and ready to be applied before you start the work?	
<b>PROTECTION</b>	
Have you checked that all people on-site have been made aware of the presence and location of ALL EnergyAustralia underground cables and/or conduits; especially boring, drilling and trenching machine operators?	
Have you checked for the presence of any asbestos or asbestos containing material in EnergyAustralia's underground network assets?	
Have you checked for the presence of any Organo-Chloride Pesticides (OCP) in sub-transmission trenches?	
Is the site supervisor monitoring all machine operators working near or around EnergyAustralia's underground cables and/or conduits?	
Are the requirements specified by EnergyAustralia's representative being followed?	
Are EnergyAustralia'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?	

\*Refer to NS156.

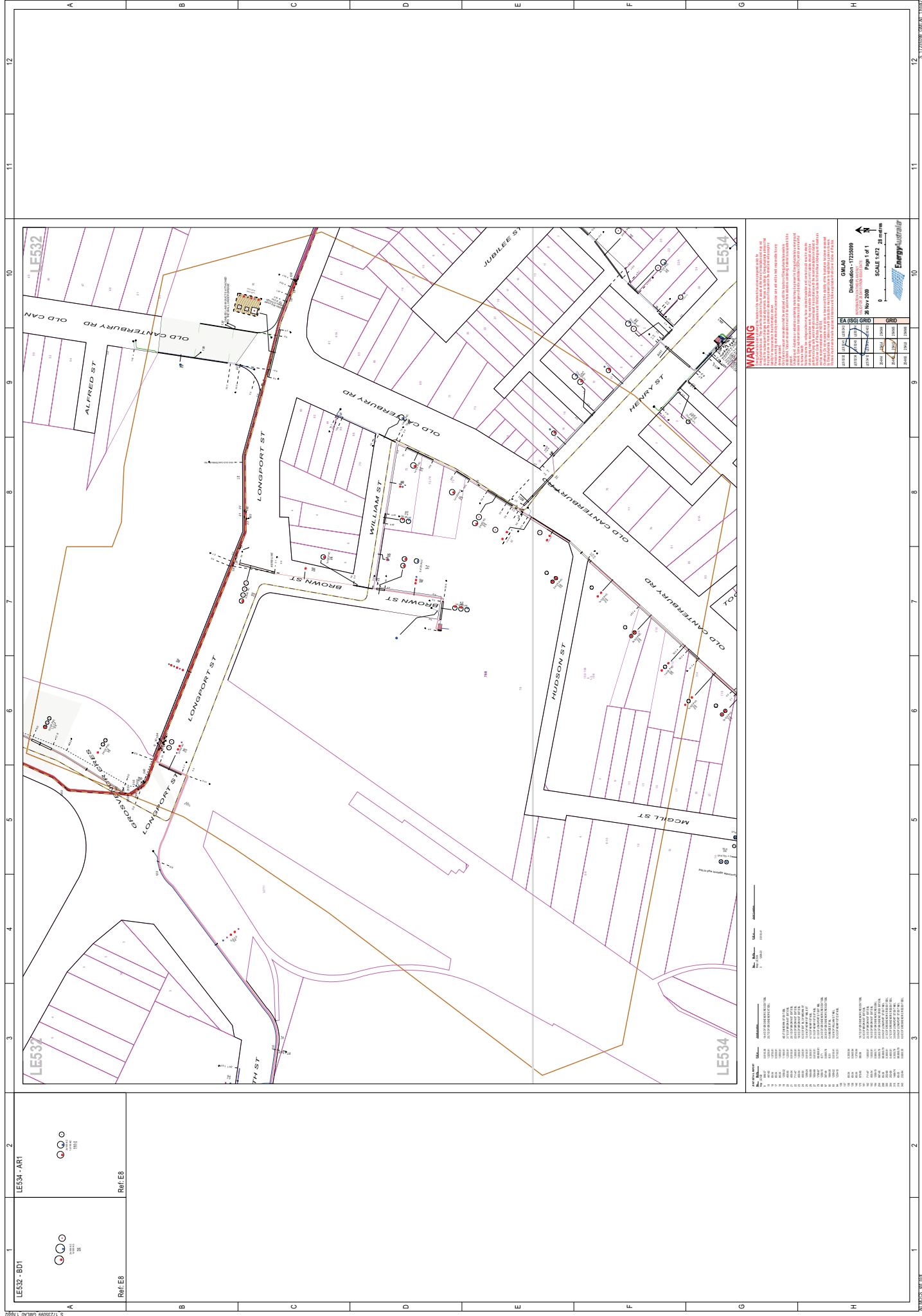
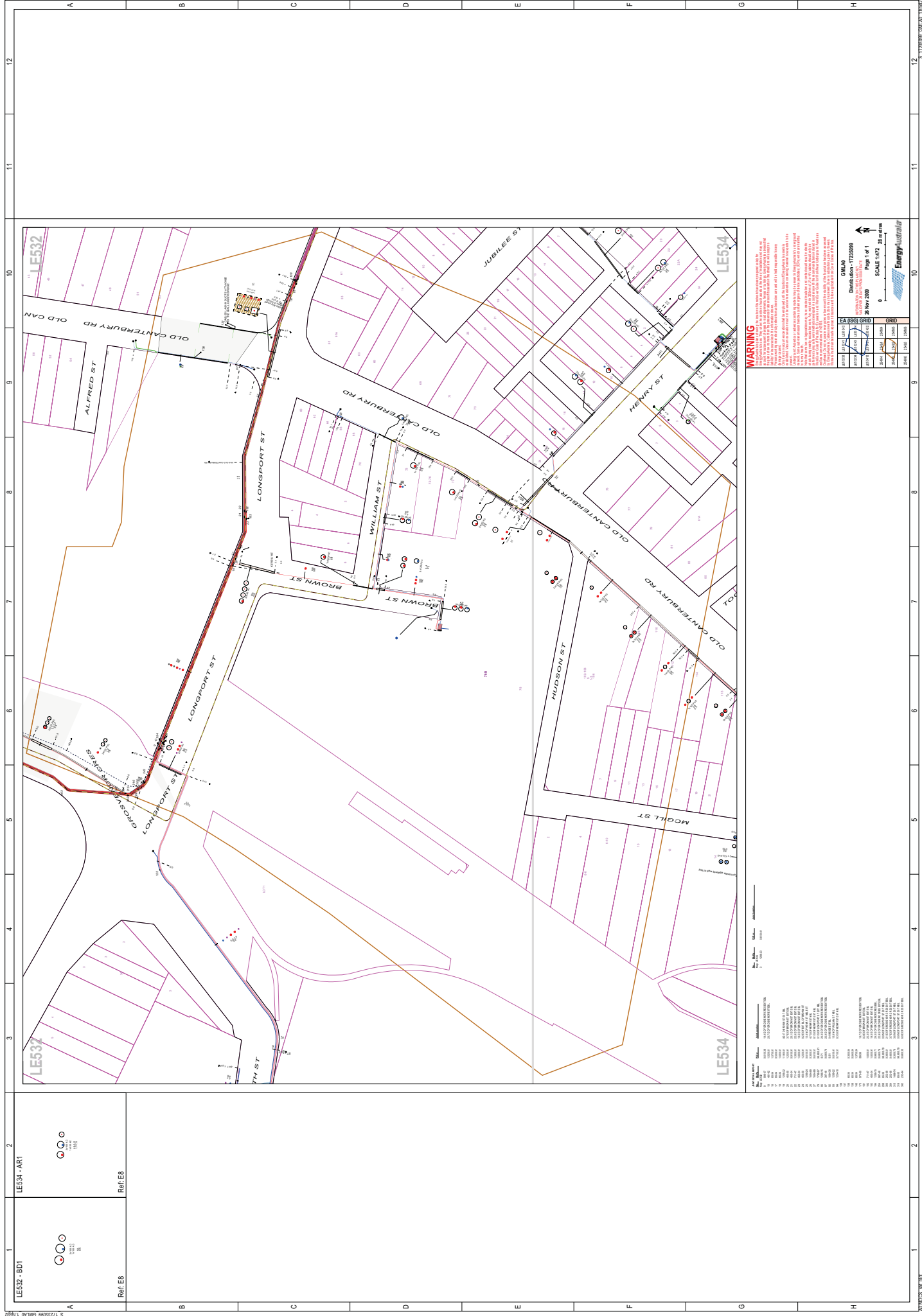
## In the event of DAMAGE to EnergyAustralia's cable or conduits, call 13 13 88 immediately

It is your responsibility to protect EnergyAustralia'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.

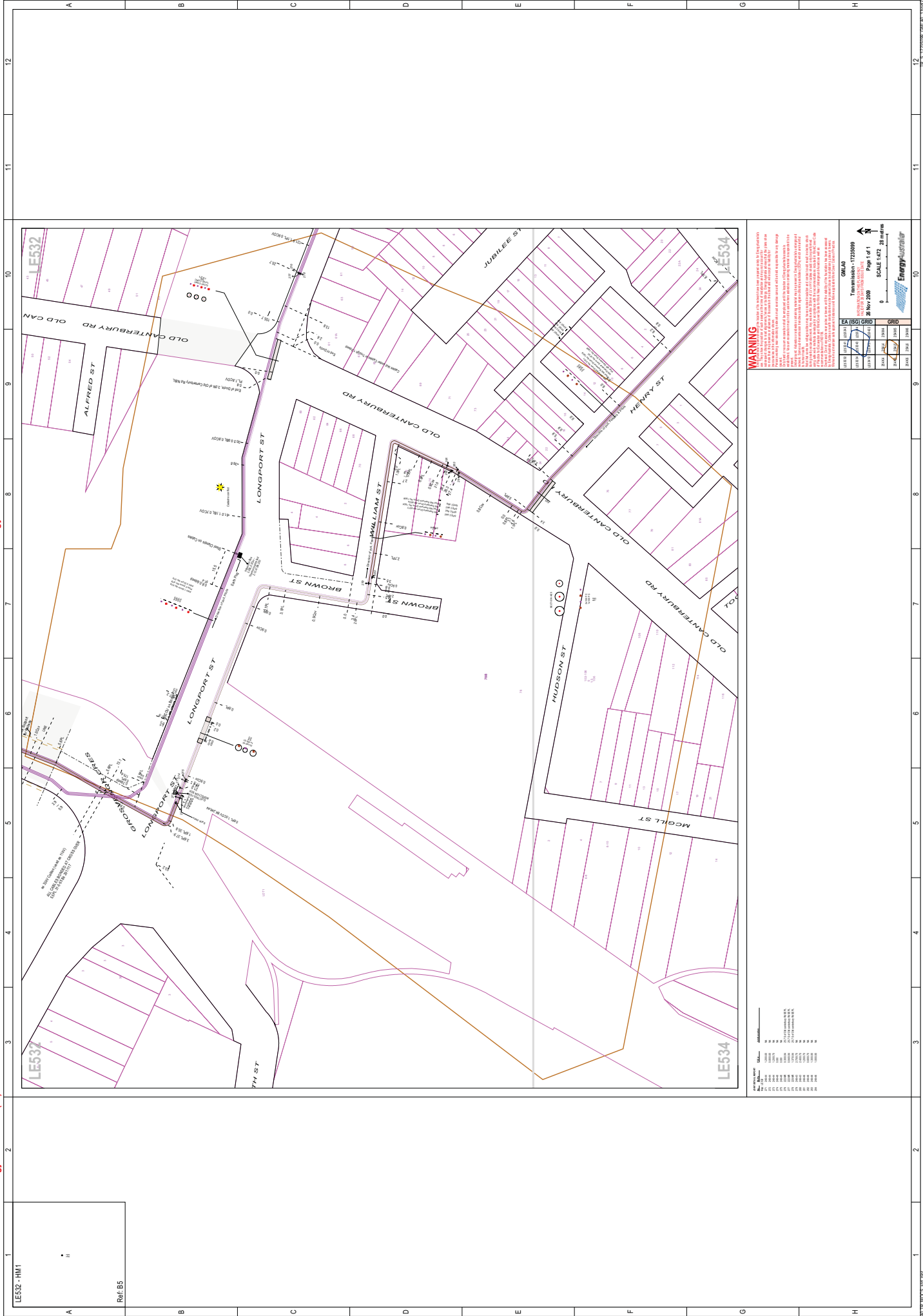
For more information call 13 15 35 or visit [energy.com.au](http://energy.com.au)





WARNING: You must contact Energy Australia on (02) 99624558 for work near Transmission cables.

The contact should be made at least two weeks before work commences. See Energy Australia Standard NS156



**WARNING**

Energy Australia

EA (NS) GRB

Transmission - T2250009

28 Nov 2008

Scale 1:472

Page 1 of 1

0 25m



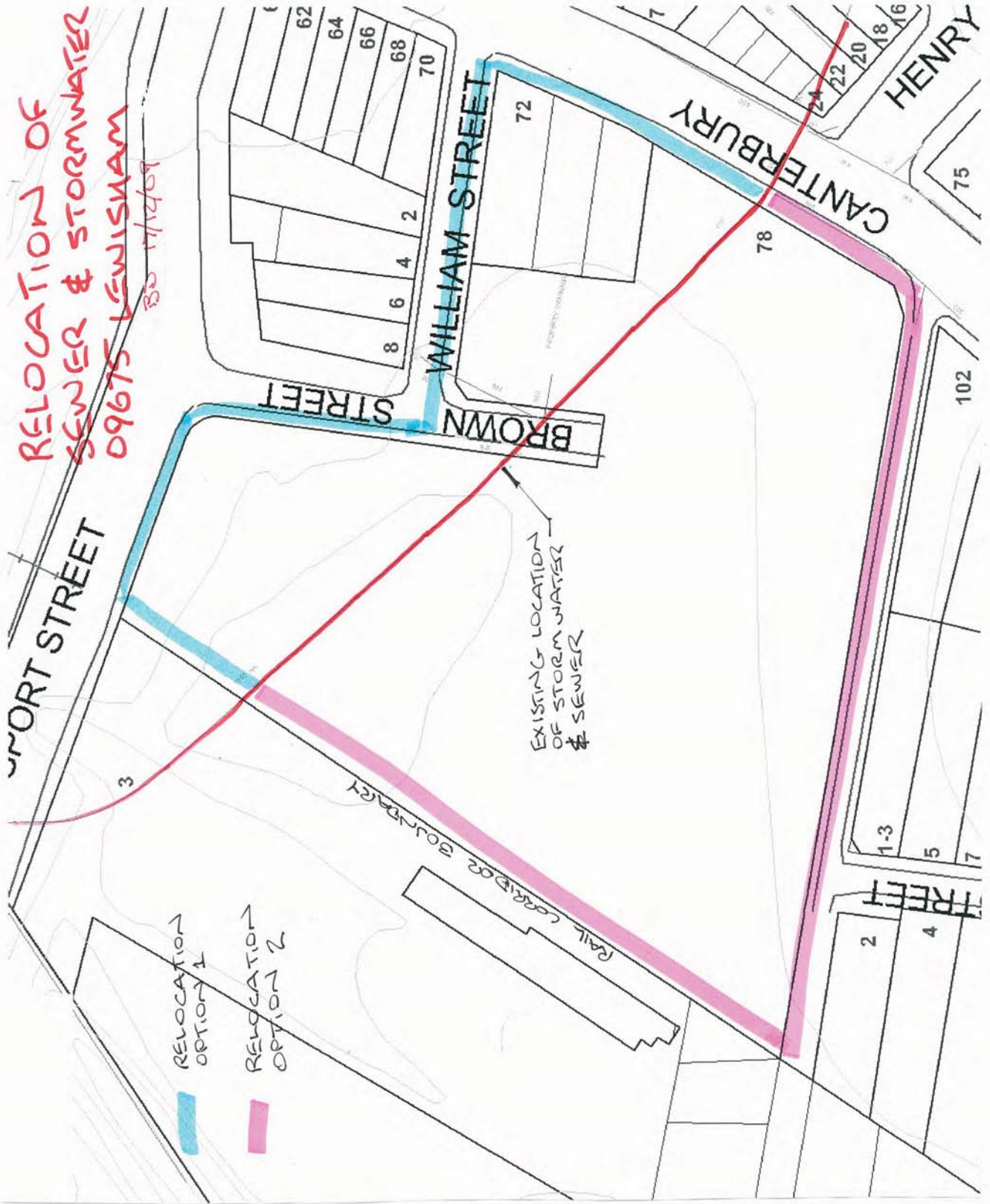
# **Appendix C**

## **Rail Corp Documentation**

# **Appendix D**

## **Options for Relocation of Sewer and Stormwater**

RELOCATION OF  
SEWER & STORMWATER  
09675 LEWISIAM  
BO 11/14/09



# **Appendix E**

## **Cross Sectional Sketches**





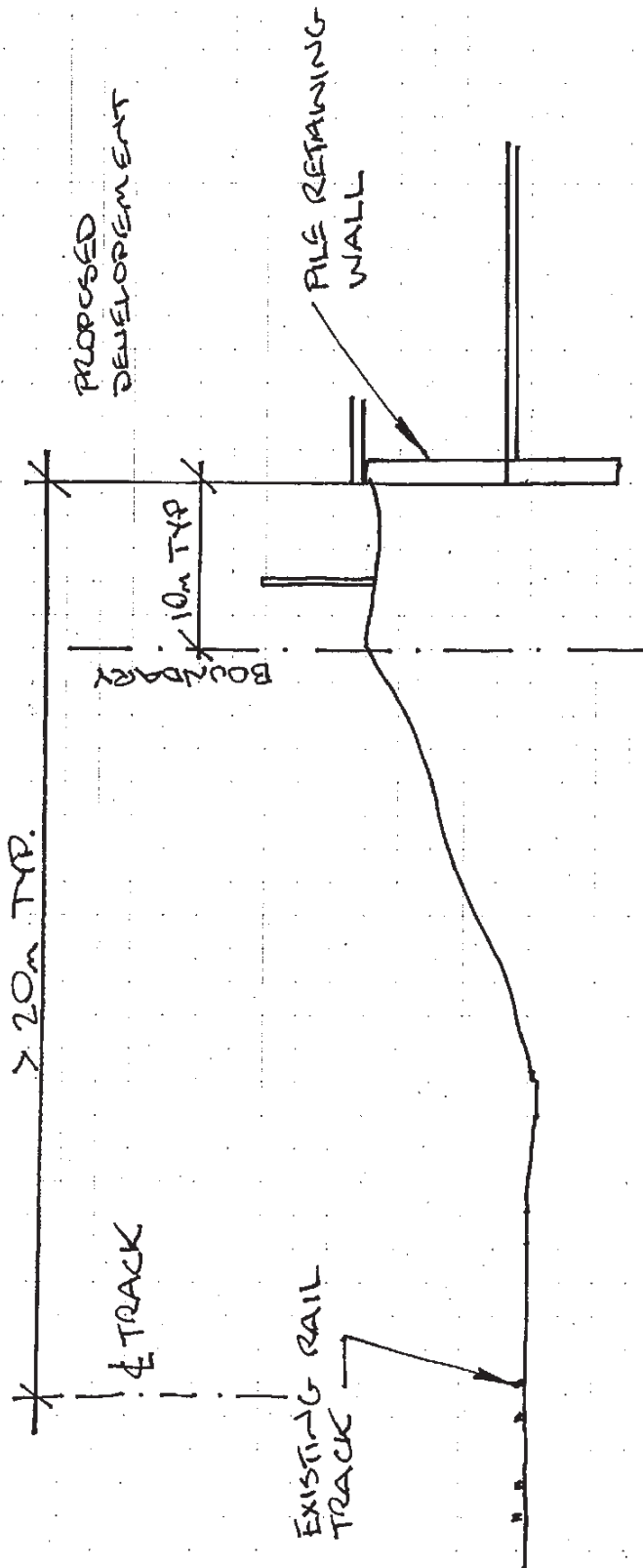
# ROBERT BIRD GROUP

RBP-DOC/2.9

## LEWISHAM RAIL IMPACT

DESIGN BJD  
JOB No. 09675

PAGE 1 OF 3  
DATE 18/12/09



SECTION "A"



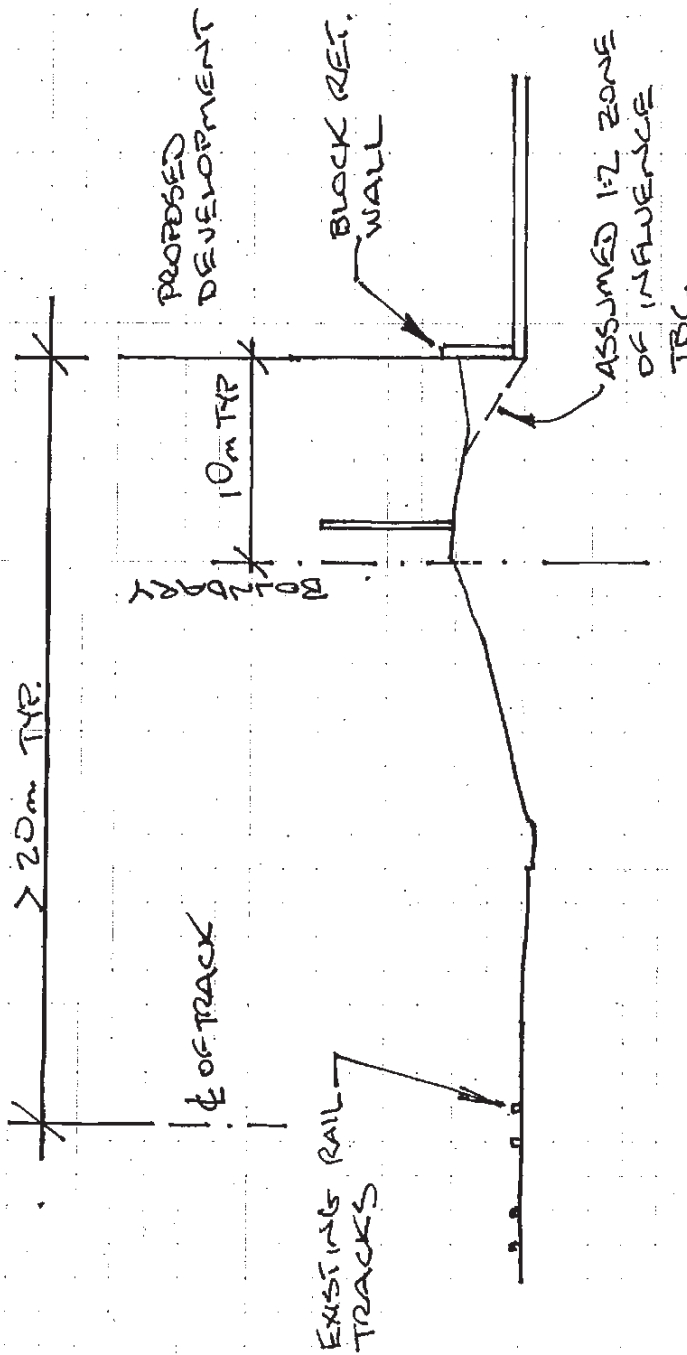
# ROBERT BIRD GROUP

RBP-DOC/2.9

## LENISHAM RAIL IMPACT

DESIGN BJD  
JOB No. 09675

PAGE 2 OF 3  
DATE 18/12/09



# ROBERT BIRD GROUP

RBP-DOC/2.9

## LEWISHAM RAIL IMPACT

DESIGN

BJD

PAGE

3

OF

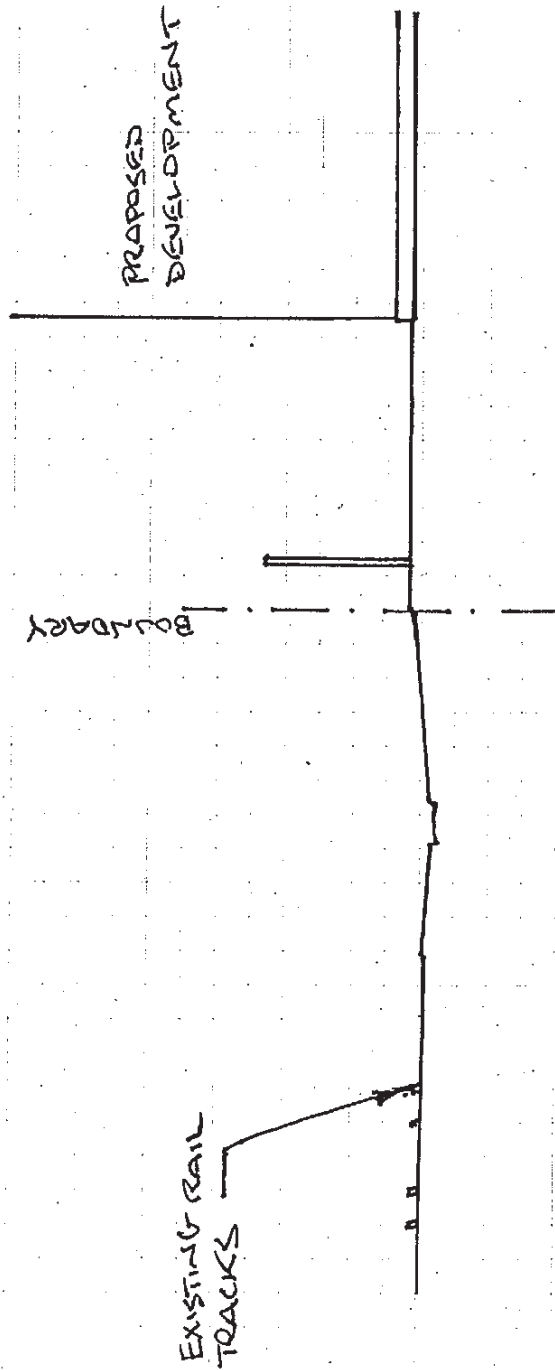
3

JOB No.

09675

DATE

18/12/09



# **Appendix F**

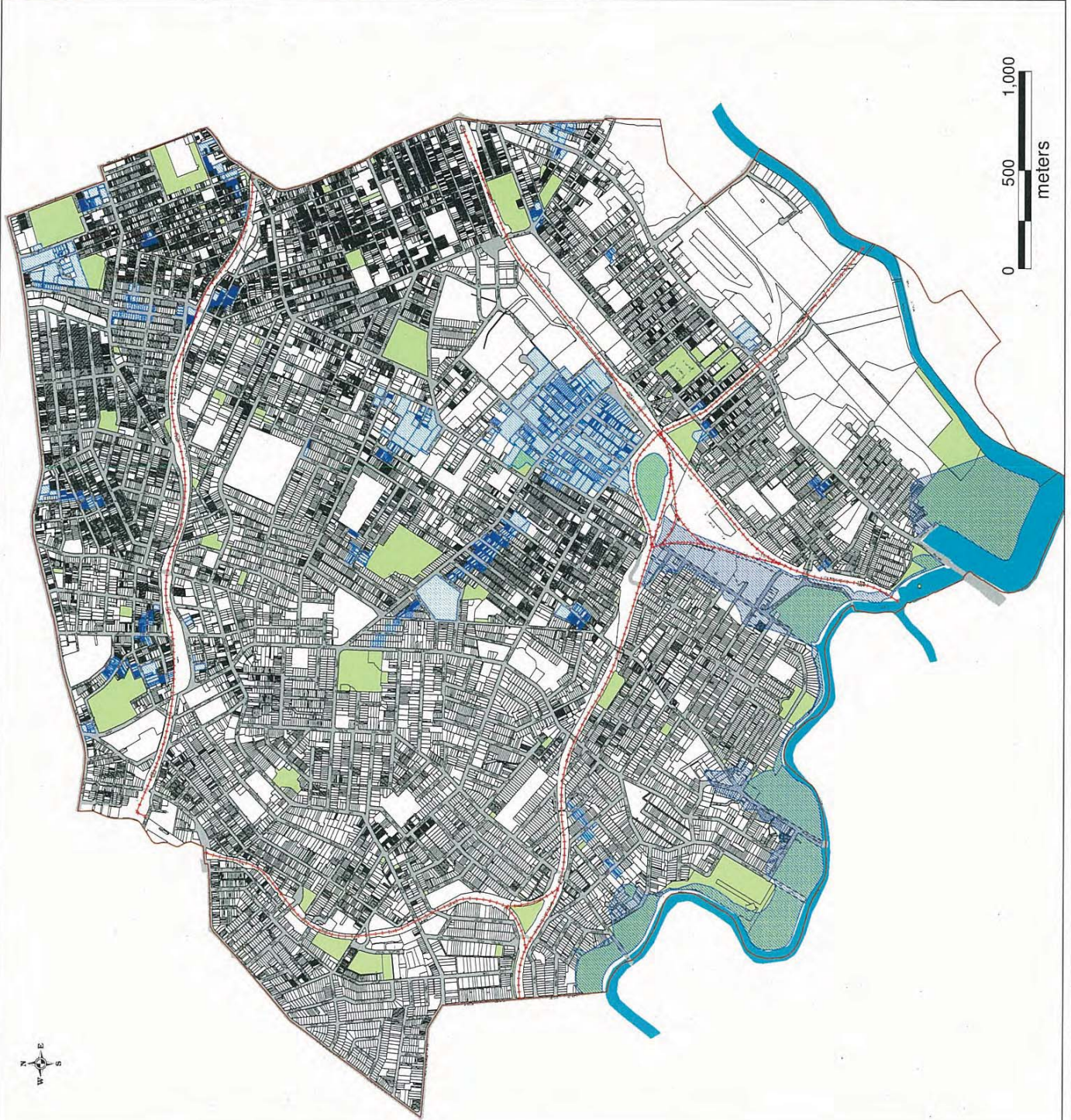
## **Marrickville Council's Map for Flood Affected Properties**



## Flood Affected Properties

### LEGEND

- Local Drainage Flood Affected Properties
- Cooks River Flood Zone
- Parks
- Property
- Roads
- Cooks River
- Suburbs
- Railway



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