

APPENDIX 3

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Phase I ESA, Old Wallgrove Road, Acquisition Lands



Phase I ESA, Old Wallgrove Road, Acquisition Lands

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22-May-2014

Job No.: 60220882_3.0

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Quality Information

Document Phase I ESA, Old Wallgrove Road, Acquisition Lands

Ref 60220882_3.0

Date 22-May-2014

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Reviewed by Alex Latham

Revision History

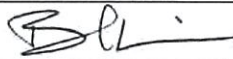
Revision	Revision Date	Details	Authorised	
			Name/Position	Signature
0	22-May-2014	For Issue	Brad Eismen Technical Director	

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Glossary of Terms

General Terms	
ACM	Asbestos Containing Material
AHD	Australian Height Datum
ASC NEPM	Assessment of Site Contamination NEPM (2013)
AST	Aboveground Storage Tank
BTEXN	Benzene, toluene, ethylbenzene, xylene, naphthalene
CoPC	Contaminants of Potential Concern
CRC CARE	Cooperative Research Centre for Contamination Assessment and Remediation of the Environment
DQI / DQO	Data Quality Indicators / Data Quality Objectives
EIL / ESL	Ecological Investigation Level / Ecological Screening Level
EPA (NSW)	Environment Protection Authority (formerly DEC, DECC, DECCW)
EPL	Environment Protection License
GPS	Goodman Property Services (NSW) Pty Ltd
HIL / HSL	Health Investigation Level / Health Screening Levels
LOR	Limit of Reporting
Metals	Suite of eight common heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc)
m bgs	Metres below ground surface
mg/kg	milligrams/kilogram
NATA	National Association of Testing Authorities
NEPM	National Environment Protection Measure (1999)
OCP	Organochlorine pesticides
OPP	Organophosphorus pesticides
PAH	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyls
SAC	Soil Assessment Criteria
TRH	Total Recoverable Hydrocarbons
UST	Underground Storage Tank

Executive Summary

AECOM Australia Pty Ltd (AECOM) was engaged by Goodman Property Services (NSW) Pty Ltd (GPS) to complete a Phase I Environmental Site Assessment (PI ESA) of narrow strips of land adjacent to Old Wallgrove Road in Horsley Park and Eastern Creek, NSW. The subject strips of land (the acquisition lands) are typically between 2 and 5 metres wide and are known as the Site.

AECOM understands that GPS intend to purchase the Site, to facilitate an up-grade to Old Wallgrove Road. Once the up-grade is completed, it is understood that the Road will be dedicated to Blacktown City Council and Fairfield City Council.

The PI ESA of the Site involved a review of historical data and an inspection to evaluate whether significant contamination is likely to have occurred from historical or current use that could affect future road up-grade activities.

Based on the PI ESA data obtained:

- the potential for soil contamination to be present that would preclude Site suitability as a road and road corridor is considered to be low
- the potential for contaminated groundwater to be present is considered to be low

There is a potential for fragments of asbestos containing material (ACM) to be present in verge areas sourced from 'fly-tipping'. Given the presence of vegetation and length of the Site (approximately 1.5 km), it is unlikely that all fragments would be identified in a Phase II assessment. It is recommended that an appropriate asbestos management plan is implemented during the earthworks associated with the road up-grade.

AECOM considers that completion of a Phase II ESA is not required prior to the initiation of road up-grade works. In the event that road up-grade works generate spoil that are surplus to requirements, the contamination status of the spoil should be assessed and disposed to an appropriate facility and/or be beneficially re-used, as appropriate.

1.0 Introduction

1.1 Preamble

AECOM Australia Pty Ltd (AECOM) was engaged by Goodman Property Services (NSW) Pty Ltd (GPS) to complete a Phase I Environmental Site Assessment (PI ESA) of narrow strips of land adjacent to Old Wallgrove Road in Horsley Park and Eastern Creek, NSW.

The subject strips of land (the acquisition lands) are typically between 2 and 5 metres wide and are known as the Site.

AECOM understands that GPS intend to purchase the Site, to facilitate an up-grade to Old Wallgrove Road. Once the up-grade is completed, it is understood that the Road will be dedicated to Blacktown City Council and Fairfield City Council.

GPS indicated to AECOM that future road work activities will be limited to the soils to approximately 1 m depth and that any 'spoil' would likely be re-used in the roadworks.

The location of the Site is shown on **Figure 1** and the Site Layout is shown on **Figure 2 (Appendix A)**. The acquisition lands are located between (approximately) chainages 100 to 1425. Chainages are shown on **Figure 2** and in **Appendix B**.

1.2 The Site

The Site includes portions of the following parcels of land:

Table 1 Site Details

Item	Description
Austral Bricks land Lot 1 DP 843901	Austral quarry and brick making plant. Subject land comprises western portion of the Lot only. Acquisition Land: 4970 m ²
Sydney Catchment Authority (SCA) land Lots 1 and 2 DP 87907 Lot 7 DP 229769	Pipeline easement and water supply pipes. Access not obtained for Site inspection. Acquisition Land: 994 m ²
Transgrid land Lot 13 DP 1157491 Lot 6 DP 229769	Lot 13: Sydney west substation. Subject land is an approximate 2 m wide strip of land parallel to the western side of Old Wallgrove Road. Lot 6: a small strip of land parallel to the eastern side of Old Wallgrove Road Acquisition Land: 2347 m ² (includes Lot 6 lands)

Notes: DP = deposited plan (DP data supplied by GPS). Acquisition land areas based on GPS data, refer Appendix B.

1.3 Project Objective

The PI ESA was undertaken to evaluate whether significant contamination is likely to have occurred from historical or current use that could affect future road up-grade activities at the Site.

1.4 Scope of Work

To achieve the objective, AECOM completed the following scope of work for the PI ESA:

- Review of background data, including:
 - Historical certificates of land title
 - Historic aerial photographs
 - NSW WorkCover Dangerous Goods records (for Lot 1 DP 843901)
 - Geology and soil maps
 - NSW Office of Water registered groundwater bore database

- Department of Defence unexploded ordnance (UXO) records
- NSW EPA records of contaminated sites
- Historical parish maps
- A Site inspection on 21 May 2014
- Data evaluation and preparation of this report.

1.5 Relevant Guidelines

AECOM completed works with reference to the following guidelines:

- National Environment Protection Council (NEPC) (1999). *National Environment Protection (Assessment of Site Contamination) Measure (NEPM)*
- *NEPC, 1999 as amended in 2013* (ASC NEPM 2013)
- NSW DEC (2006) Guidelines for the NSW Site Auditor Scheme, 2nd Edition
- NSW OEH (2011). *Guidelines for Consultants Reporting on Contaminated Sites*. NSW Government Office of Environment & Heritage (OEH)

2.0 Site Background & History

The sections that follow provide a summary of the data reviewed by AECOM for the PI ESA. **Appendix B** provides copies of relevant search data.

2.1 Current Land Use

Current land use of the Site is summarised below:

Table 2 Current Land Use

Site Portion	Description / Comments
Austral Bricks owned land Lot 1 DP 843901	Car parking, landscaped areas, access driveway to main Plant
SCA owned land Lots 1 and 2 DP 87907 Lot 7 DP 229769	Mostly vacant, grass covered. Water supply pipelines and vehicle access tracks
Transgrid owned land Lot 13 DP 1157491 Lot 6 DP 229769	Lot 6: grassed paddock. Lot 13: mostly vacant land, wooden post and rail fence on (or near) current boundary. Access driveways to substation. Lawn and some trees

2.2 Surrounding Land Use

Land uses surrounding the Site included:

- Chainage 0 to 625: Austral Bricks. Car parking and landscaped areas. These lands are on the eastern side of Old Wallgrove Road and are approximately 1 m higher than the Road. The Plant (brickmaking works etc.) is set well back from the acquisition lands. On the western side of Old Wallgrove Road were new bulky goods-type developments, located down topographic gradient of the road
- Chainage 625 to 700: SCA land. On the western side of Old Wallgrove Road a gravel surfaced 'slipway' used for truck and/or trailer parking was present
- Chainage 700 to 1420: Transgrid owned paddock with power infrastructure (stanchions) and some gravel paved tracks on the eastern side of the road. Transgrid substation on the western side of the road. The substation infrastructure and associated working areas (workshops, administration buildings etc) are located well away and down topographic gradient from the proposed road widening area

Chainage data was supplied by GPS and is included in Appendix B and shown on Figure F2.

2.3 Topography and Drainage

The Site, based on inspection observations, comprises gently undulating land. The overall topography appeared to slope gently down to the west, towards Ropes Creek. Ropes Creek is located approximately 1.2 km to the west.

2.4 Proximity to Local Sensitive Environments

The closest local sensitive environment is considered to be Ropes Creek. The potential for contamination to this identified receptor from current site activities is considered to be low, based on observations of Site conditions.

2.5 Geology and Hydrogeology

2.5.1 Geology

The Penrith 1:100 000 Geological Map 9030 indicates that the Site is underlain by the Wianamatta Group, which comprises shale, carbonaceous claystone, claystone laminate, fine to medium-grained lithic sandstone and rare coal and tuff. Volcanic breccia is mapped to the west and may occur within the Project Area.

The Soil Landscapes of the Penrith 1:100 000 Sheet 9030 indicates that soils within the Site are comprised of the Blacktown soil landscape. The Blacktown soil landscape is associated with gently undulating rises formed on Wianamatta Group shale, with broad crests and ridges with convex upper slopes which grade into concave lower slopes. The soils typically include friable loams to clay loams with fine rounded iron-indurated shale gravels overlying strongly pedal clays, typically encountered approximately 50 cm below ground surface.

Acid Sulfate Soil (ASS) Risk Maps do not cover the Site. Given the Site elevation and expected geology, the potential for ASS to be present is considered to be low.

2.5.2 Hydrogeology

Review of the NSW Department of Natural Resources database on 20 May 2014 indicated that six registered groundwater bores were identified within an approximate 5 km radius of the Site, as summarised on the following table. No registered bores were identified in close proximity to the Site. Monitoring bore GW100447 appears to be the closest to the Site, located approximately 2km to the west.

Table 3 Registered Bore Search Data

Bore #	Total depth (m bgs)	Standing Water Level (m bgs)	Purpose	Comments / Drillers Logs
GW018361	217	No information	Waste Disposal	Mixed basalt, shale and sandstone.
GW028414	6	No information	Irrigation	Clay overlying shale. Fractured water-bearing zone.
GW110311	100	31.6	Monitoring	Clay overlying shale. Water-bearing zone between 83 and 100 m
GW110312	100	39.8	Monitoring	Shale/fill overlying shale. Water-bearing zone between 83 and 100 m
GW111126	10	No information	Monitoring	Fill overlying clay and shale. Saturated weathered shale/clay lenses between 8 and 10 m.
GW100447	29.6	2.9	Monitoring	Clay to 1 m, siltstone/shale to 29.6 m. Water bearing zone at 14 m

Note: m bgs = metres below ground surface

Based on the data reviewed, local groundwater is inferred to be present in the weathered shale profile between (approximately) 8 and 10 m bgs. Regional groundwater is expected to be present in the Wianamatta shales from approximately 80 m bgs.

Bore search data is included in Appendix B.

2.6 Section 149 Certificates & Council Archives

Given the project timeframe (i.e. less than 1 week turnaround), section 149 certificates for the subject parcels of land were not obtained for review, nor were requests made to Blacktown City and Fairfield City Councils to review historical records of Development and Building Applications.

2.7 Historical Certificates of Title

Certificate of Title information for Lot 1 DP843901, Lot 13 DP1157491 and Lot 6 DP229769 were obtained from the Land Titles Office to provide an indication of previous site owners and possible land uses (refer **Appendix B**). Data for the SCA lands was not requested as it is considered that the small area involved is unlikely to represent a significant data gap.

Site ownership history is summarised below:

Table 4 Summary of Certificates of Title

Lot / DP	Dates	Owners	Possible Site Use
1 / 843901	1967 – to date	Austral Brick Company Pty Ltd	Quarrying and brick production
	1950 - 1967	Penfold's Wines Pty Ltd	Rural (grazing). Aerial photographs did not indicate presence of vineyards
	1919 - 1950	Frederick Bigg, farmer/grazier	Rural. Data indicates land may have been vacant between 1941 and 1950 (three executors of the Frederick Bigg estate)
	1912-1919	Charles Pocock, cordial manufacturer	Rural
13 / 1157491	1959 – to date	Transgrid (includes Electricity Commission of NSW)	Vacant prior to development of substation (sometime between 1961 and 1970), then Substation
	1950 - 1959	Penfold's Wines Pty Ltd	Rural/grazing
	1905 - 1950	Frederick Bigg, farmer/grazier	Rural/grazing
6 / 229769	1966 – to date	Transgrid (includes Electricity Commission of NSW)	Paddocks with electricity stanchions
	1950 - 1966	Penfold's Wines Pty Ltd	Rural/grazing
	1919 - 1950	Frederick Bigg, farmer/grazier	Rural/grazing
	1912 - 1919	Charles Pocock, cordial manufacturer	Rural

In summary, the title information indicates that the Site has been utilised for rural activities prior to development of the Austral Bricks Plant and the substation and associated infrastructure.

2.8 Anecdotal Information

Anecdotal information obtained during the Site inspection is summarised in the following table:

Table 5 Anecdotal Information

Source	Information
Rob Zvirgzdins (Austral Brickworks). Approximately 9 years of experience at the Plant	<ul style="list-style-type: none"> - No known underground storage tanks (USTs) in the land acquisition area. - Along the western boundary area of Austral Plant, the northern portion has always been used for car parking purposes, whilst the southern portion has remained undeveloped. Visual bunds were recently constructed to provide a 'screen' from Old Wallgrove Road. The bunds may contain clay and crushed brick and tiles sourced from the Plant. The visual bunds do not appear to be located on acquisition lands. - Three in-ground septic tanks (concrete construction) are present near chainage 500 to 550. Treated effluent is used to irrigate the lawn area adjacent to the tanks. The septs receive 'domestic' effluent (i.e. waste from bathrooms, kitchens etc) not trade waste. - The Site was formerly powered by oil. A cylindrical above ground tank (AST) was formerly used to store oil however, this tank is empty and no longer used. The AST is not located on acquisition lands and no obvious indications of oil staining were observed in the vicinity of the structure. - The Plant is currently powered by natural gas although it will soon be replaced by landfill gas. A landfill gas pipeline was in the process of being installed from the Austral property to lands on the western side of Old Wallgrove Road. The pipe is some 350 mm in diameter and will require vertical boring beneath Old Wallgrove Road.

Source	Information
Geoff Blakewell (Transgrid). Approximately 6 years of experience at the substation	<ul style="list-style-type: none"> - Round-upTM is applied beneath the wooden post and rail fence - No substation infrastructure or workshops have been located in the acquisition lands. - No known spill events in the acquisition lands. - Fly-tipping of waste in the roadside verge area has been common in the past. Tipped materials have included asbestos containing materials (ACM). - Only one fly-tipping event had occurred on Transgrid land but this was subsequently removed. - Given the history of fly-tipping along the road verge area, it is possible that waste materials are present in vegetated areas between the road and the boundary fence that are not currently visible. - A water main is present near the main entrance driveway. A below ground sewage pipe may be present in the area, which was formerly used for pumping treated effluent from on-site septic tanks to the paddock across the road, for irrigation use. This practise ceased approximately 10 years ago. The sewage pipe may be constructed from ACM. - A grassed area is present to the south of the substation, which is called the 'Lawn Training School'. This area is used for training purposes only (working at heights on non-powered stanchions).

2.9 Aerial Photographs

The following information was derived from reviewing historical aerial photographs for the Site and the surrounding area. Selected aerial photographs are included on **Figure 3**. Copies of all reviewed aerial photographs are included in **Appendix B**.

Table 6 Aerial Photograph Review

Year	Comments
Jan' 1947	Old Wallgrove Road is present, possibly dirt (i.e. not asphalt). Water pipeline easement is visible and may be under construction. A small 'work-site like' feature is present on the southern side of the easement in what is currently the Austral Bricks Plant. Transgrid substation not present. Area surrounding Old Wallgrove Road appears to be rural (paddocks). No obviously visible areas of disturbed soil (i.e. excavations, stockpiles etc) adjacent to Old Wallgrove Road.
Jan' 1956	The photograph does not include Old Wallgrove Road to the south of the SCA pipeline easement. Lands to the north of the easement comprise paddocks. SCA pipeline appears to be completed.
1961	Area surrounding Old Wallgrove Road appears to be rural (paddocks). No obviously visible areas of disturbed soil (i.e. excavations, stockpiles etc) adjacent to Old Wallgrove Road.
Jul' 1970	Transgrid substation is present. Two patches of bare ground present on the western side of Old Wallgrove Road and these appear to be associated with electricity stanchions. No other development noted in immediate vicinity of Old Wallgrove Road. Whilst the photograph does not include Old Wallgrove Road to the south of the pipeline, Austral Bricks Plant does not appear to be present.
Apr' 1978	Transgrid substation, SCA pipelines and Austral Bricks Plant are present. Car park area in the northern portion and undeveloped land along eastern boundary of Austral Bricks are present. No development opposite the substation or opposite Austral Bricks. No obviously visible areas of disturbed soil (i.e. excavations, stockpiles etc) adjacent to Old Wallgrove Road.
Aug' 1986	Transgrid substation, SCA pipelines and Austral Bricks Plant are present. No obvious changes to the layout of these properties. No development opposite the substation, although there is an access track to what appears to be a clay/shale extraction pit. No development present opposite Austral Bricks.
Oct' 1994	No obvious changes from the 1986 photograph except the clay/shale extraction pit appears larger and the main access track runs from the northern side of the Austral Bricks Plant.
Dec' 2005	Layout of Old Wallgrove Road, Austral Bricks and Transgrid substation and 'paddock' appear similar to Site inspection observations. SCA pipes and lands visible. No development present opposite Austral Bricks. Development in progress opposite the northern end of Transgrid substation.

In summary, no obviously significantly contaminating activities were noted on the photographs reviewed

2.10 Dangerous Goods Records

Given the project timeframe (i.e. less than 1 week turnaround), requests to the respective property owners to obtain permission (if at all) to undertake searches of the NSW WorkCover stored chemical information database on registered dangerous goods was not undertaken.

AECOM completed a PI ESA for GPS on nearby lands in 2007. Part of the 2007 PI ESA included review of dangerous goods records for the Austral Bricks property. These records are included in Appendix B and indicated the following:

- A 53.4 kL AST of diesel fuel was present at Austral Bricks. The Site plan indicates this AST was not in close proximity to the Site
- The WorkCover data indicates that 3 x USTs were removed from Austral Bricks in (circa) 2001 however accompanying Site plans indicate these tanks were located at the CSR-PGH facility at the southern end of Wallgrove Road
- Information for a 2000 gallon UST was included but this appears to be associated with a different Austral Bricks plant (Chandos Road, Horsley Park)

2.11 NSW EPA Website

A search of the NSW Environment Protection Authority (EPA) contaminated lands database was completed on 20 May 2014 to evaluate whether the Site or surrounding properties were listed under Section 58 of the Contaminated Land Management Act 1997. The EPA database indicated the following:

- There were no listings for the Site or properties in the immediate area
- Four properties were listed in the Fairfield City Council Local Government Area (LGA). AECOM notes that the listed properties are not located in the vicinity of the Site
- Two properties were listed in the Blacktown City Council LGA. AECOM notes that the listed properties are not located in the vicinity of the Site

Copies of the EPA search records are provided in Appendix B.

2.12 Unexploded Ordnance

A search of the Australian Department of Defence Unexploded Ordnance (UXO) Contamination database was completed on 20 May 2014 to evaluate whether the Site or surrounding properties were listed. The records indicated that no UXO risk lies within the Site or within 2 km.

A copy of the UXO search record is provided in Appendix B.

2.13 Parish Maps

Review of historical Parish Maps available on the NSW LPI website indicated the following:

- 1938: Old Wallgrove Road is present and lands 'earmarked' for the substation were shown on the Map. Surrounding lands appeared to be broad acreage, likely rural/grazing
- Undated maps: show large rural land-holdings in the general area. Whilst the exact date of the maps is not known, the web-site information indicated that the maps were typically produced from the late 1820s and updated to the 1940s. Based on this, it appears possible that the Site has been utilised for rural purposes since the early to mid-1800s.

Copies of historical Parish maps are included in Appendix B.

2.14 Site Inspection Observations

An AECOM Associate Director completed a Site inspection on 21 May 2014 to assess the current use and conditions of the Site. Detailed inspection of the ground surface in some of the roadside verge areas was not possible due to the presence of thick grass cover. Photographs taken at the time of the inspection are presented in Appendix C. Inspection observations are summarised below:

- Where exposed soil was observed, the profile appeared consistent with the Blacktown Soil Landscape Group, with shallow clay soils grading to weathered shale (refer Plate 1)

- The visual barrier (berm) at Austral Bricks was vegetated with grass and trees and surface soil appeared to comprise silt and clay with shale pieces (refer Plate 2)
- Some bricks were present in exposed clay soils near the Austral Bricks car park area (refer Plate 3). No other anthropogenic inclusions were observed apart from some general litter such as plastic food wrappings/packaging
- Three septic tanks were present to the north of the car park area (refer Plate 4). A small area of saturated soils was present on the grass verge immediately adjacent to Old Wallgrove Road, between the Austral fence and the road. This appeared to be seepage water from lawn irrigation activities
- An unpaved slip-lane was present on the western side of Old Wallgrove Road, to the north of the water pipeline easement (refer Plate 5). Observations included:
 - A truck trailer was parked in the area. Several trucks 'pulled over' and utilised the area for short periods of time.
 - Approximately eight small patches of oil staining, all less than 30 cm diameter, were observed and are likely sourced from parked trucks and/or trailers. These are not considered to represent a significant contamination issue.
 - Three small stockpiles, each estimated to be less than 2 m³, were present. These appeared to comprise roadbase gravel (one stockpile) and a mixture of silty-sandy soil and rounded river pebbles (second stockpile). The third stockpile was grass covered however, the surface appeared to comprise clayey sand and silty soil. The stockpiles are not considered to represent a significant contamination issue.
 - Sections of palm tree trunks and general litter was present, including drink bottles, plastic, wooden pallets and two empty paint tins. No indications of spilled paint were noted. The litter is not considered to represent a significant contamination issue.
- Areas between the Road and fence lines were mostly vegetated with long grass (refer Plates 6 to 8). No obviously stressed or dying vegetation was observed.
- Roadside litter was observed at various locations and typically included plastic bags, food packaging, drink bottles, small pieces of metal, some bricks. A discarded car tyre and bedding mattress were also observed. No obvious fragments of ACM were observed on un-vegetated, exposed ground surfaces.
- The SCA pipeline easement was well maintained (mown grass and gravel/asphalt paved access tracks) and secured with fencing. No obvious indicators of contamination were observed.
- With respect to the Transgrid lands adjacent to the substation:
 - The surface of Old Wallgrove Road appeared to be at a higher elevation than the substation, indicating a low potential for migration of contaminants from the substation to the Site.
 - Dead grass was present beneath the wooden post and rail fence and around some landscape 'feature' trees, which is a result of the grounds-keeping activities. Spray application of Roundup™ to vegetation is not considered to represent a significant contamination issue.
 - Approximately three drainage swales, lined with crushed sandstone, directed water from the catchment on the opposite side of the Road (i.e. the paddock), beneath the Road and then across the acquisition lands to a drainage culvert near the substation security fence. No obvious odours or staining were noted in these swales.
 - The acquisition land was mostly mown grass, with some trees and shrubs. Occasional pieces of waste timber and steel and brick were present near the fenceline, mostly near an emergency muster point gate.

2.15 Summary of Contamination Potential

Based on the PI ESA data obtained:

- The potential for soil contamination to be present that would preclude Site suitability as a road and road corridor is considered to be low; and
- The potential for contaminated groundwater to be present is considered to be low. Furthermore, based on the expected depth of road up-grade works, the potential to intersect high-yielding groundwater is considered to be low.

The Site and nearby lands historically comprised rural lands, which appeared to be paddocks for grazing purposes. It is considered that application of pesticides is unlikely to have occurred.

There is a potential for fragments of ACM to be present in verge areas. Given the presence of vegetation and length of the Site (approximately 1.5 km), it is unlikely that all fragments would be identified in a Phase II assessment. It is recommended that an appropriate asbestos management plan is implemented during the earthworks associated with the road up-grade.

AECOM notes that the Site is associated with an active road and therefore lead emissions (from vehicle exhaust) and minor releases of petroleum hydrocarbons from traffic (fuel or oil leaks) cannot be discounted. The potential for the presence of lead and petroleum hydrocarbon contamination at concentrations negating Site suitability for roadway use is considered to be low.

AECOM considers that completion of a Phase II ESA is not required prior to the initiation of road up-grade works. In the event that road up-grade works generate spoil that are surplus to requirements, the contamination status of the spoil should be assessed and disposed to an appropriate facility and/or be beneficially re-used, as appropriate.

3.0 Conclusions & Recommendations

The PI ESA of the acquisition lands involved a review of historical data and a Site inspection to evaluate whether significant contamination is likely to have occurred from historical or current use that could affect future road up-grade activities.

Based on the PI ESA data obtained:

- The potential for soil contamination to be present that would preclude Site suitability as a road and road corridor is considered to be low; and
- The potential for contaminated groundwater to be present is considered to be low

There is a potential for fragments of ACM to be present in verge areas. Given the presence of vegetation and length of the Site (approximately 1.5 km), it is unlikely that all fragments would be identified in a Phase II assessment. It is recommended that an appropriate asbestos management plan is implemented during the earthworks associated with the road up-grade.

AECOM considers that completion of a Phase II ESA is not required prior to the initiation of road up-grade works. In the event that road up-grade works generate spoil that are surplus to requirements, the contamination status of the spoil should be assessed and disposed to an appropriate facility and/or be beneficially re-used, as appropriate.

4.0 References

AECOM (2007). *Phase I Environmental Site Assessment, Oakdale Concept Plan, Kemps Creek/Horsley Park NSW*. Ref: S4074201_RptFinalRev02_13Dec07

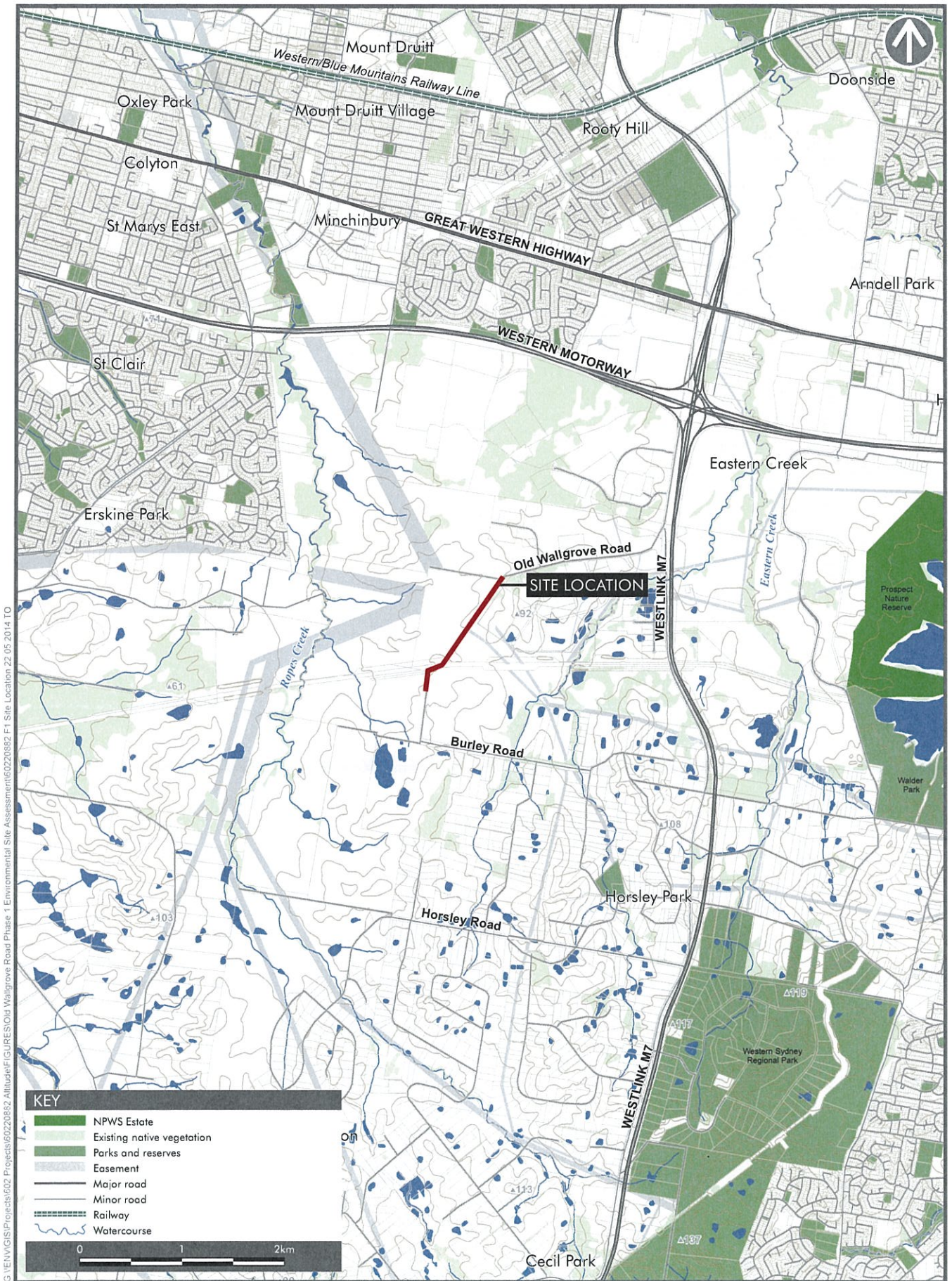
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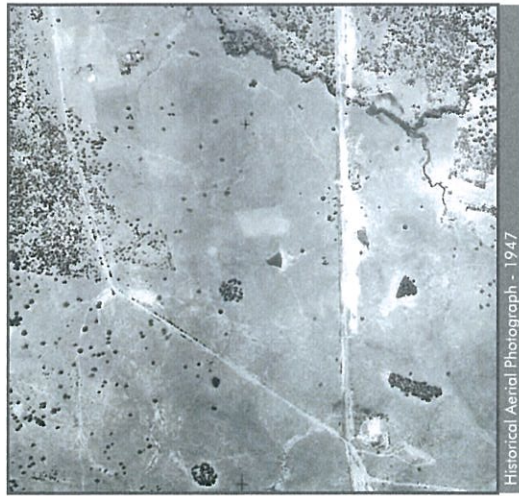
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Appendix A

Figures







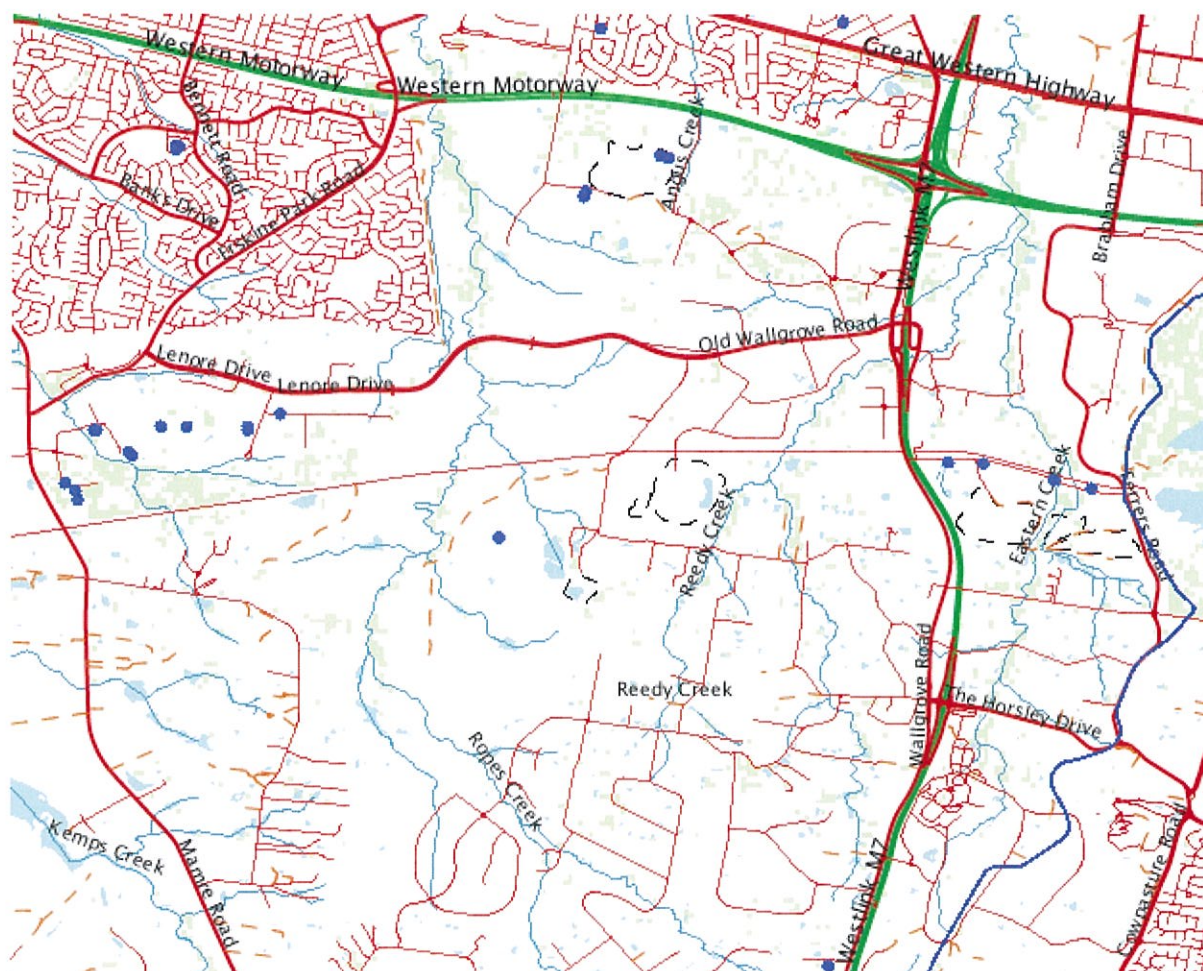
HISTORICAL AERIAL PHOTOGRAPHS

Phase 1 Environmental Site Assessment
Old Wallgrove Road Acquisition Land, New South Wales 2164

FIGURE 3

Appendix B

Background Data



Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
Document Generated on Tuesday, May 20, 2014

Print Report

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW018361

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW018361
LIC-NUM	10BL010545
AUTHORISED-PURPOSES	AQUACULTURE WASTE DISPOSAL
INTENDED-PURPOSES	WASTE DISPOSAL
WORK-TYPE	Bore open thru rock
WORK-STATUS	(Unknown)
CONSTRUCTION-METHOD	Cable Tool
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	1961-01-01
FINAL-DEPTH (metres)	217.90
DRILLED-DEPTH (metres)	217.90
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	603 - SYDNEY BASIN
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	212 - HAWKESBURY RIVER
AREA-DISTRICT	
CMA-MAP	9030-2N
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	(Unknown)
NORTHING	6259773.00
EASTING	300602.00
LATITUDE	33 47' 0"
LONGITUDE	150 50' 47"

GS-MAP 0056D4
 AMG-ZONE 56
 COORD-SOURCE GD.,ACC.MAP
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH ROOTY HILL
 PORTION-LOT-DP 161

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH ROOTY HILL
 PORTION-LOT-DP PT 21

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	Threaded Steel	0.00	12.10	203			Suspended in Clamps

Water Bearing Zones [\(top\)](#)

no details

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	14.02	14.02	Topsoil Clay		
14.02	16.45	2.43	Basalt		
16.45	45.72	29.27	Shale Grey		
45.72	60.96	15.24	Shale Light Grey		
60.96	61.56	0.60	Shale Grey		
61.56	64.00	2.44	Basalt		
64.00	72.54	8.54	Shale Black		
72.54	92.04	19.50	Shale Grey		
92.04	99.06	7.02	Sandstone		
99.06	137.16	38.10	Shale Grey		
137.16	150.87	13.71	Shale Grey		
150.87	194.46	43.59	Sandstone White		

194.46	195.68	1.22	Shale Grey
195.68	217.62	21.94	Sandstone White
217.62	217.93	0.31	Shale Grey

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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Work Requested -- GW028414

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW028414
LIC-NUM	10BL020250
AUTHORISED-PURPOSES	IRRIGATION
INTENDED-PURPOSES	IRRIGATION
WORK-TYPE	Well
WORK-STATUS	Supply Obtained
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	1966-03-01
FINAL-DEPTH (metres)	6.00
DRILLED-DEPTH (metres)	6.10
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	603 - SYDNEY BASIN
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	212 - HAWKESBURY RIVER
AREA-DISTRICT	
CMA-MAP	9030-2N
GRID-ZONE	56/1
SCALE	1:25,000
ELEVATION	
ELEVATION-SOURCE	(Unknown)
NORTHING	6259670.00
EASTING	298648.00
LATITUDE	33 47' 2"
LONGITUDE	150 49' 31"

GS-MAP 0056D4
 AMG-ZONE 56
 COORD-SOURCE GD.,ACC.MAP
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 14

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 3 752041

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1	1	Casing	Concrete Cylinder	0.00	0.00	1219			(Unknown)

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W-L	D-D-L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
5.90	5.90	0.00	Fractured	3.90					(Unknown)

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	3.66	3.66	Clay		
3.66	6.10	2.44	Shale Soft Broken		
6.10	6.11	0.01	Shale Grey Hard		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)

Document Generated on Wednesday, May 21, 2014

[Print Report](#)

[Works Details](#) [Site Details](#) [Form A](#) [Licensed](#) [Construction](#) [Water Bearing Zones](#) [Drillers Log](#)

Work Requested -- GW100447

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW100447
LIC-NUM	10BL157800
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Bore - Nested (4)
WORK-STATUS	Equipped - bore used for obs
CONSTRUCTION-METHOD	Rotary
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	1996-11-11
FINAL-DEPTH (metres)	29.60
DRILLED-DEPTH (metres)	29.60
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	N/A
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	2.89
SALINITY	22900.00
YIELD	0.10

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6254770.00
EASTING	297937.00
LATITUDE	33 49' 41"
LONGITUDE	150 48' 59"

GS-MAP

AMG-ZONE 56

COORD-SOURCE

REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND

PARISH MELVILLE

PORTION-LOT-DP A//392643

Licensed [\(top\)](#)

COUNTY CUMBERLAND

PARISH MELVILLE

PORTION-LOT-DP PART 80

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	1.50	156			Rotary
1		Hole	Hole	1.50	14.90	120			Rotary
									C: 0-5.8m; Screwed; Seated on Bottom; Casing Shoe
1	1	Casing	P.V.C.	0.00	5.80	50			Seated on Bottom
1	1	Casing	P.V.C.	13.90	14.90	50			PVC; A: .4mm; Screwed
1	1	Opening	Screen	7.90	13.90	50			PVC; SL: 50mm; A: 6mm
1	1	Opening	Slots	7.90	13.90	50			Graded; GS: 1-2mm; Q: .09m ³
1		Annulus	Waterworn/Rounded	6.80	14.90				
2		Hole	Hole	0.00	2.50	156			Rotary
2		Hole	Hole	2.50	29.60	120			Rotary
2	2	Casing	P.V.C.	0.00	22.60	50			C: 0-21.5m; Screwed;

								Seated on Bottom; Cap; Casing Shoe
2	2	Casing	P.V.C.	28.60	29.60	50		Screwed; Seated on Bottom; Cap
2	2	Opening	Slots - Vertical	22.60	28.60	50		PVC; SL: 50mm; A: 1mm
2	2	Opening	Screen	22.60	28.60	50	1	PVC; A: .4mm; Screwed
2		Annulus	Waterworn/Rounded	21.50	29.50	120	50	Graded; GS: 1-2mm; Q: .09m ³
3		Hole	Hole	0.00	2.00	156		Rotary
3		Hole	Hole	2.00	16.70	120		Rotary
3	3	Casing	P.V.C.	0.00	9.70	50		C: 0-7.5m; Screwed; Seated on Bottom; Cap; Casing Shoe
3	3	Casing	P.V.C.	15.70	16.70	50		Screwed; Seated on Bottom; Cap
3	3	Opening	Screen	9.70	15.70	50	1	PVC; A: .4mm; Screwed
3	3	Opening	Slots - Vertical	9.70	15.70	50		PVC; SL: 50mm; A: 1mm
3		Annulus	Waterworn/Rounded	8.50	16.70	120	50	Graded; GS: 1-2mm; Q: .09m ³
4		Hole	Hole	0.00	18.90	50		
4	4	Casing	P.V.C.	0.00	11.90	50		C: 0-10.2m; Screwed; Seated on Bottom; Cap
4	4	Opening	Screen	11.90	17.90	50		PVC; A: .4mm; Screwed
4	4	Opening	Slots - Vertical	11.90	17.90	50		PVC; SL: 50mm; A: 1mm
4		Annulus	Waterworn/Rounded	10.20	18.90	50	50	

Graded;
GS:
1-2mm;
Q: .09m³

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W-L	D-D-L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
0.00	14.90	14.90		2.89	0.00	0.10	14.90	0.25	22900.00

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	1.00	1.00	CLAY		
1.00	29.60	28.60	SILTSTONE/SHALE		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)

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[Print Report](#)

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Work Requested -- GW110311

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW110311
LIC-NUM	10BL602119
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-07-08
FINAL-DEPTH (metres)	100.00
DRILLED-DEPTH (metres)	100.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A C N 114 843 453
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	31.60
SALINITY	
YIELD	0.20

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6258444.00
EASTING	299218.00
LATITUDE	33 47' 42"
LONGITUDE	150 49' 52"

GS-MAP

AMG-ZONE 56

COORD-SOURCE

REMARK

Form-A ([top](#))

COUNTY CUMBERLAND

PARISH MELVILLE

PORTION-LOT-DP 1 400697

Licensed ([top](#))

COUNTY CUMBERLAND

PARISH MELVILLE

PORTION-LOT-DP 1 400697

Construction ([top](#))

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	3.00	150			Auger - Solid Flight
1		Hole	Hole	3.00	100.00	150			Down Hole Hammer
1	1	Casing	PVC Class 18	0.00	88.00	50			Screwed; Seated on Bottom; End cap PVC Class 9; Casing - Machine Slotted; SL: 45mm; A: 4mm; Screwed
1	1	Opening	Slots - Horizontal	88.00	100.00	50			
1		Annulus	Bentonite/Grout	81.00	83.00				
1		Annulus	Waterworm/Rounded	83.00	100.00				Graded; GS: 2-3mm

Water Bearing Zones ([top](#))

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W-L	D-D-L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
83.00	100.00	17.00		31.60		0.20		2.00	

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	1.00	1.00	CLAY SILTY BROWN		
1.00	9.00	8.00	SHALE WEATHERED,BROWN		
9.00	31.00	22.00	SHALE,MEDIUM,GREY		
31.00	100.00	69.00	SHALE,DARK GREY		

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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Print Report

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Work Requested -- GW110312

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW110312
LIC-NUM	10BL602119
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2009-07-08
FINAL-DEPTH (metres)	100.00
DRILLED-DEPTH (metres)	100.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	A C N 114 843 453
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	39.80
SALINITY	
YIELD	0.20

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6258108.00
EASTING	298563.00
LATITUDE	33 47' 53"
LONGITUDE	150 49' 27"

GS-MAP
 AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY COOK
 PARISH LINDEN
 PORTION-LOT-DP 2 262213

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH MELVILLE
 PORTION-LOT-DP 1 400697

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	3.00	150			Auger - Solid Flight
1		Hole	Hole	3.00	100.00	150			Down Hole Hammer
1	1	Casing	PVC Class 18	0.00	88.00	50			Screwed; Seated on Bottom; End cap PVC Class 9; Casing - Machine Slotted; SL: 45mm; A: 4mm
1	1	Opening	Slots - Horizontal	88.00	100.00	50			
1		Annulus	Bentonite/Grout	81.00	83.00				
1		Annulus	Waterworn/Rounded	83.00	100.00				Graded; GS: 2-3mm

Water Bearing Zones [\(top\)](#)

S-W-L D-D-L YIELD

DURATION SALINITY

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	TEST- HOLE- DEPTH (metres)
83.00	100.00	17.00	39.80	0.20
				2.00

Drillers Log [\(top\)](#)

FROM	TO	THICKNESS	DESC	GEO-MATERIAL COMMENT
0.00	3.00	3.00	SHALE, FILL	
3.00	8.00	5.00	SHALE WEATHERED,LIGHT BROWN	
8.00	96.00	88.00	SHALE,LIGHT GREY	
96.00	100.00	4.00	SHALE,DARK GREY	

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Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#)
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Work Requested -- GW111126

Works Details [\(top\)](#)

GROUNDWATER NUMBER	GW111126
LIC-NUM	10BL604062
AUTHORISED-PURPOSES	MONITORING BORE
INTENDED-PURPOSES	MONITORING BORE
WORK-TYPE	Well
WORK-STATUS	
CONSTRUCTION-METHOD	Auger - Solid Flight
OWNER-TYPE	Private
COMMENCE-DATE	
COMPLETION-DATE	2010-04-23
FINAL-DEPTH (metres)	10.00
DRILLED-DEPTH (metres)	10.00
CONTRACTOR-NAME	
DRILLER-NAME	
PROPERTY	MOBIL ROOTY HILL
GWMA	-
GW-ZONE	-
STANDING-WATER-LEVEL	
SALINITY	
YIELD	

Site Details [\(top\)](#)

REGION	10 - SYDNEY SOUTH COAST
RIVER-BASIN	
AREA-DISTRICT	
CMA-MAP	
GRID-ZONE	
SCALE	
ELEVATION	
ELEVATION-SOURCE	
NORTHING	6259877.00
EASTING	298930.00
LATITUDE	33 46' 56"
LONGITUDE	150 49' 42"

GS-MAP
 AMG-ZONE 56
 COORD-SOURCE
 REMARK

Form-A [\(top\)](#)

COUNTY CUMBERLAND
 PARISH ROOTY HILL
 PORTION-LOT-DP 1//880505

Licensed [\(top\)](#)

COUNTY CUMBERLAND
 PARISH ROOTY HILL
 PORTION-LOT-DP 1 880505

Construction [\(top\)](#)

Negative depths indicate Above Ground Level;H-Hole;P-Pipe;OD-Outside Diameter;
 ID-Inside Diameter;C-Cemented;SL-Slot Length;A-Aperture;GS-Grain Size;Q-Quantity

HOLE- NO	PIPE- NO	COMPONENT- CODE	COMPONENT- TYPE	DEPTH- FROM (metres)	DEPTH- TO (metres)	OD (mm)	ID (mm)	INTERVAL	DETAIL
1		Hole	Hole	0.00	10.00	150			Auger - Solid Flight
1	1	Casing	PVC Class 18	0.00	7.00	60	50		Other; Seated on Bottom; End cap
1	1	Opening	Slots - Horizontal	7.00	10.00	60			Other; Casing - Machine Slotted; SL: 40mm; A: 3.8mm; Other
1		Annulus	Waterworm/Rounded	0.00	10.00				Graded; GS: 2-4mm

Water Bearing Zones [\(top\)](#)

FROM- DEPTH (metres)	TO- DEPTH (metres)	THICKNESS (metres)	ROCK- CAT- DESC	S-W-L	D-D-L	YIELD	TEST- HOLE- DEPTH (metres)	DURATION	SALINITY
----------------------------	--------------------------	-----------------------	-----------------------	-------	-------	-------	-------------------------------------	----------	----------

8.00 10.00 2.00

Drillers Log ([top](#))

FROM	TO	THICKNESS	DESC	GEO-MATERIAL	COMMENT
0.00	1.50	1.50	FILL		
1.50	4.00	2.50	CLAY FIRM L/BROWN		
4.00	5.00	1.00	SHALE GREY,L/BROWN CLAY		
5.00	8.00	3.00	SHALE GREY/ WEATHERED		
8.00	10.00	2.00	SHALE GREY/ WEATHERED,BLACK,SATURATED CLAY LENSES		

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

1947 ↑ NORTH.



63-45

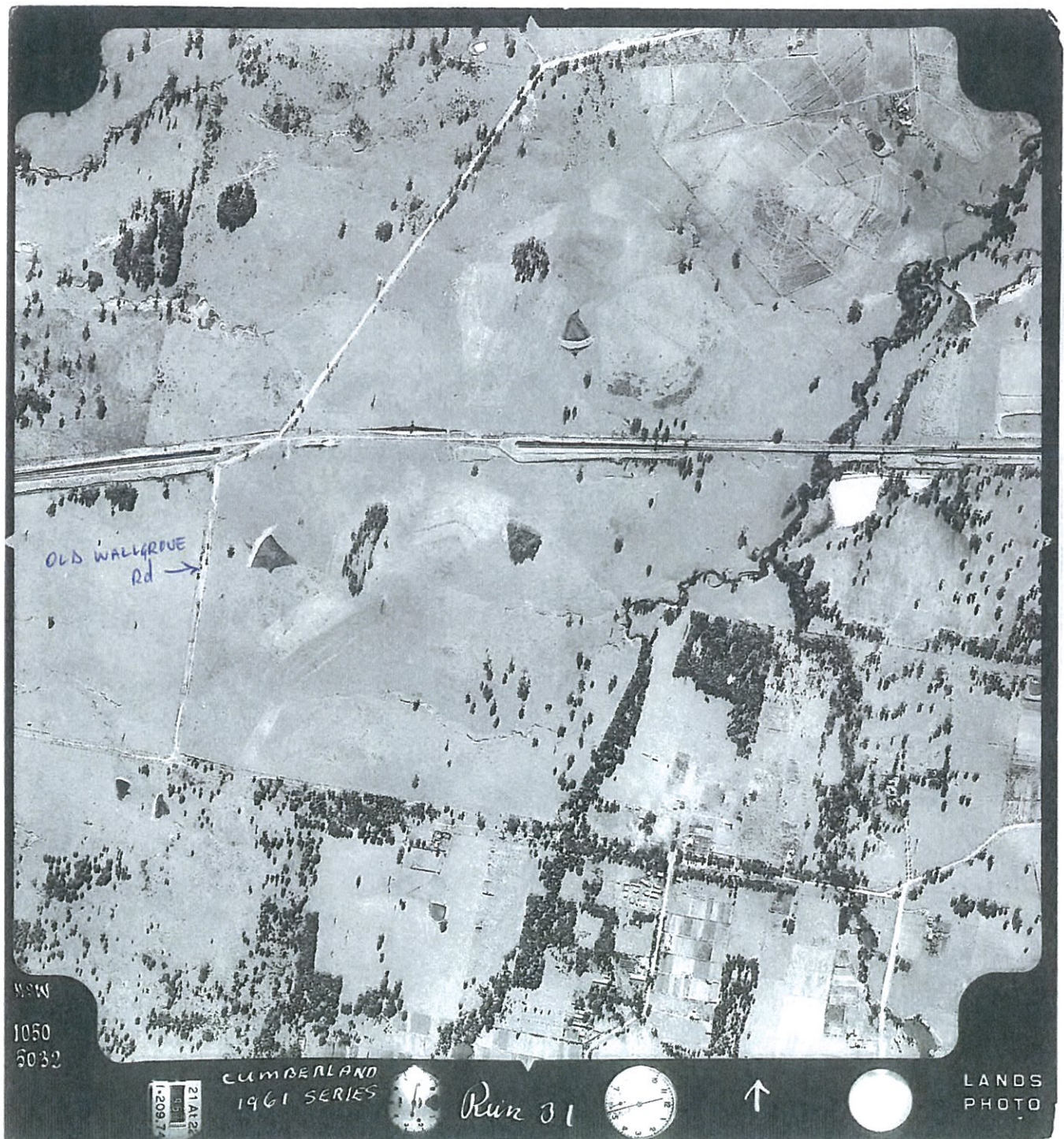
LIVERPOOL (CO. CLAND) RUN 31 ↑ JAN 47 12 12200

PRINTED BY CENTRAL MAPPING AUTHOR
DEPARTMENT OF LANDS N.S.W.

1956 ↑ NORTH



1961 ↑ North



1970 ↑ North

4.5W.
1911
5056

CUMBERLAND
1970 SERIES

NSW 1811

RUN 15
7.7.70

7500 ASL
152.37 M.M.

CROWN
COPY N.S.W.
LAND PHOTO
106-E
1ST COPY



1978 ↑ NORTH



UAG 1025 18145

1986 ↑ North





1994 ↑ North

↑ NORTH. 2005



Department of Lands
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152.76 mm

RUN 9
10-12-05
222-245

PENRITH
1:25000 Approx. Scale
NSW4937 (M2510)



Dangerous Goods Licensing

ph (02) 4321 5500 fax (02) 9287 5500

Attn: REMI BAGINSKI
Licensee: AUSTRAL BRICK CO PTY LIMITED ACN 000 005 550
P O BOX 6550
WETHERILL PARK DC NSW 1851

LICENCE FOR THE KEEPING OF DANGEROUS GOODS

ISSUED UNDER AND SUBJECT TO THE PROVISIONS OF THE DANGEROUS GOODS ACT, 1975 AND REGULATIONS THEREUNDER

Licence Number 35/017790 Expiry Date 15/01/2006 No. of Depots 7

Licensee Contact REMI BAGINSKI Ph. 9830 7725 Fax. 9830 7807

Premises Licensed to Keep Dangerous Goods PLANT NO 3
AUSTRAL BRICK CO PTY LIMITED
OLD WALLGROVE RD HORSLEY PARK 2164

Nature of Site CLAY BRICK MANUFACTURING

Major Supplier of Dangerous Goods VARIOUS

Emergency Contact for this Site BILL LARFIELD Ph. (M) 0410 422 305

Site staffing 24HRS 7DAYS

Details of Depots

Depot No.	Depot Type	Goods Stored in Depot	Qty
1	EXEMPT - U/G TANK	Class C1	16500 L
	UN 00C1 DIESEL		16500 L
2	EXEMPT - U/G TANK	Class C1	26500 L
	UN 00C1 DIESEL		26500 L
3	EXEMPT - U/G TANK	Class C1	26500 L
	UN 00C1 DIESEL		26500 L
4	EXEMPT - U/G TANK	Class C1	16500 L
	UN 00C1 DIESEL		16500 L
5	FLAMMABLE LIQUIDS CABINET	Class 3	250 L exempt (500L or kg)
	UN 1263 PAINT RELATED MATERIAL		150 L
6	CYLINDER STORE	Class 2.1	250 L exempt (5000L)
	UN 1001 ACETYLENE, DISSOLVED		150 L
7	ABOVE-GROUND TANK	Class 3	53400 L - exempt (100,000L)
	UN 00C1 DIESEL	Class C1	25000 L

PLEASE RETAIN AS PROOF OF LICENCE
Issued by Workcover Authority of New South
Wales on 10 March 2005

WorkCover. Watching out for you.

WorkCover NSW ABN 77 682 742 966 92-100 Donnison Street Gosford NSW 2250 Locked Bag 2906 Lisarow NSW 2252
Telephone 02 4321 5000 Facsimile 02 4325 4145 WorkCover Assistance Service 13 10 50
DX 731 Website www.workcover.nsw.gov.au

WC1216LH

Application for Licence to Keep Dangerous Goods

PART A - Applicant and site information (See page 2 of Guidance Notes)

1	Name of applicant	ACN
	Austral Brick Co Pty Limited	Plant No 3 000 005 650
2	Postal Address of Applicant	Suburb/Town Postcode
	PO Box 6660	Wetherill Park NSW DC 1851
3	Trading Name or Site Occupier's Name	
	Austral Bricks	
4	Contact for Licence Inquiries	
	Phone 7725 Fax 9830 7807 Name	
	9830 7777 9629 4267 Remi Baginski	
5	Previous Licence Number (if known)	35/017 790
6	Previous Occupier (if known)	Nil
7	Site to be Licensed	
	No Street	
	Old Wallgrove Road Horsley Park	
8	Main Business of Site	Clay brick manufacturer
9	Site staffing: Hours per day	Days per week
	24	7
10	Site Emergency Contact	
	Phone Name	
	0410422 305 Shift Supervisor on Duty Bill Larfield	
11	Major Supplier of Dangerous Goods	CIG Gases and BP
12	If a new site or for amendments to depots - see page 4 of Guidance Notes.	
	Plans Stamped by: Name of Consultant Date Stamped	
	Barry Boné 2-3-05	

I certify that the details in this application (including any accompanying computer disk) are correct and cover all licensable quantities of dangerous goods kept on the premises.

13	Signature of Applicant	Printed Name
	<i>Mark Trudgett</i>	MARK TRUGGETT

Dangerous Goods Licensing
WorkCover NSW, Locked Bag 2906 LISAROW NSW 2252

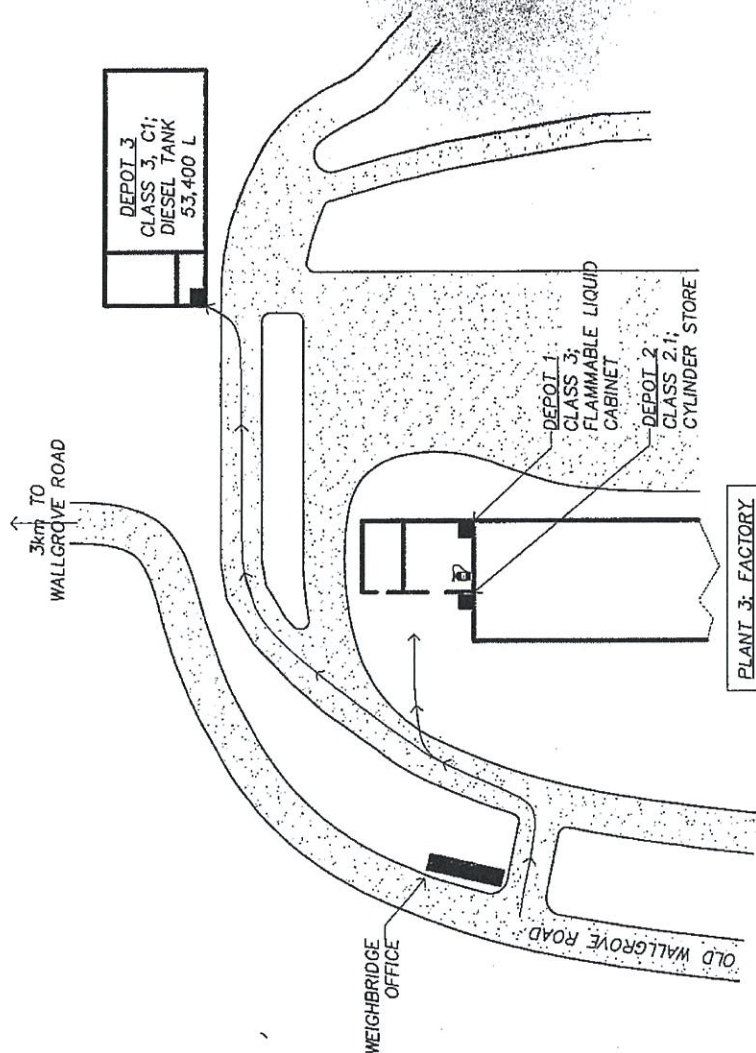


Denote	DE Obs	FE	Quantity
1; (last)	3	11	25
2; (last)	2.1	-	-
3; (third)	3	C1	53











AS SHOWN IN THIS PLAN CONFORMS WITH THE
DANGEROUS GOODS ACT 1973
AND AUSTRALIAN STANDARDS

AS 4552-1
AS

Name (Printed) Barry Bone
Signature Barry Bone Date 2/3/05



THE AUSTRAL BRICK COMPANY; DANGEROUS GOODS SITE PLAN

	Indicates Dangerous Goods Depot		Fire Hydrant	<p>COPYRIGHT - THIS DRAWING & DESIGN SHOWN HEREON IS THE PROPERTY OF PETROLINK PTY LTD. NO COPY OR ANY PART THEREOF IS TO BE MADE, REPRODUCED OR OTHERWISE DRAUGHT TO THIRD PARTIES OR USED FOR ANY OTHER PURPOSE WITHOUT PERMISSION OF PETROLINK PTY LTD</p> <p>petrolink ptg con au www.petrolink.com.au 1300 654 600</p>
	Emergency Isolation Point		Fire Hose Reel	
	Spill Response Station		Fire Extinguisher - Dry Powder	
	Emergency Eye Wash		Fire Extinguisher - Foam	
	First Aid		Fire Extinguisher - Carbon Dioxide	

What is a depot? See page 5 of the Guidance Notes

PART C - Dangerous Goods Storage Complete one section per depot

If you have more depots than that space provided, photocopy sufficient sheets first

13

What is a depot? See page 5 of the Guidance Notes

PART C - Dangerous Goods Storage Complete one section per depot

If you have more depots than that space provided, photocopy sufficient sheets first

Depot Number	Type of Depot (see page 5)	Depot Class	Maximum Storage Capacity			
1	Indoor Storage Cabinet	3	250 litres			
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	Typical Quantity	Unit eg L, kg, m ³
1263	Paint Related Materials	3	II	Paint, Solvents, thinners	150	L

Depot Number	Type of Depot (see page 5)	Depot Class	Maximum Storage Capacity			
2	Gas Cylinder Store	2.1	250L			
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	Typical Quantity	Unit eg L, kg, m ³
1001	Acetylene	2.1		Acetylene	150	Kg

Depot Number	Type of Depot (see page 5)	Depot Class	Maximum Storage Capacity			
3	On ground self-bunded fuel tank	3	53,400 Litres			
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	Typical Quantity	Unit eg L, kg, m ³
00C1	Diesel	3	C1	Diesel	25,000	L

Depot Number	Type of Depot (see page 5)	Depot Class	Maximum Storage Capacity			
UN Number	Proper Shipping Name	Class	PG (I, II, III)	Product or Common Name	Typical Quantity	Unit eg L, kg, m ³

35/017790
KNIGHT'S SYNDICATE PTY. LTD.

A.C.N. 002 947 588

37 Blackbutt Avenue
Pennant Hills, N.S.W. 2120

Telephone: (02) 9629 5564
Phone/Fax: (02) 9629 5554
Quarry Mgr: (02) 9629 3864

A.B.N 66 320 664 665

17 2001

WorkCover Authority
Chief Inspector Of Dangerous Goods
Locked Bag 10
Sydney N.S.W. 2000

Contractor Certificate of Dangerous Goods

Knight' Syndicate Pty Ltd hereby certifies that the tank referred to in the schedule of this certificate has been taken out of service in the following method:

Remove and Dispose (certificate attached)

The procedure has been carried out under the provision of the Dangerous Goods Act 1975 and section 9.8.13 of Australian standard 1940-1993 and acceptance of the Chief Inspector of Dangerous Goods.

Owner of Premises: CSR/ PGH
Address of Premises: Old Wallgrove Rd Horsley Park

Schedule: 2 x 25000 ust
1 x 20000 ust

Knight's Syndicate installed one 15000 ast for diesel (class C1) to the Australian Standard AS 1940-1993 and Australian Institute of Petroleum under the supervision of Fairfield City Council.

(copy of diagrams attached)

Dated 3-4-2001

Paul Goodwin



MONIER PGH

QUARRY PRODUCTS

PIPELAYING - SHORING - SHEET PILING - CONTRACT TRENCHING
COMPACTED BACKFILL • EXCAVATIONS • BULK • ROCK • DETAIL
HIRE EXCAVATORS - HYDRAULIC HAMMERS - COMPACTORS - LOW LOADER

KNIGHT'S SYNDICATE PTY. LTD.

A.C.N. 002 947 588

37 Blackbutt Avenue
Pennant Hills, N.S.W. 2120

Telephone: (02) 9629 5564
Facsimile: (02) 9629 5554

20th December 2000

KNIGHT'S SYNDICATE PTY. LTD., 37 BLACKBUTT AVENUE, PENNANT HILLS 2120
A.C.N. 002 947 588 (THE COMPANY) acknowledges and agrees to

CSR/PGH
that all risks and title in the 4 x type 25 & 1 x type 20 ug tanks
ex WALLGROVE RD HORSLEY PARK
passes to (THE COMPANY) from

CSR/ PGH

The tanks were transported by us/you for a safe and legal disposal at our quarry, 105 SCHOFIELDS
ROAD, ROUSE HILL.
They will not be sold for any purpose.

the company seal of
KNIGHT'S SYNDICATE PTY. LTD.
was hereunto affixed by
J. A. KNIGHT
in the presence of
J. T. KNIGHT
on 20th December 2000



QUARRY PRODUCTS

PIPELAYING - SHORING - SHEET PILING - CONTRACT TRENCHING
COMPACTED BACKFILL • EXCAVATIONS • BULK • ROCK • DETAIL
HIRE EXCAVATORS - HYDRAULIC HAMMERS - COMPACTORS - LOW LOADER

PORT SITE PLAN
SCALE: 1:2000

CENTRAL FACTORY, QUAY AND QUARRY.
DR. 1061477

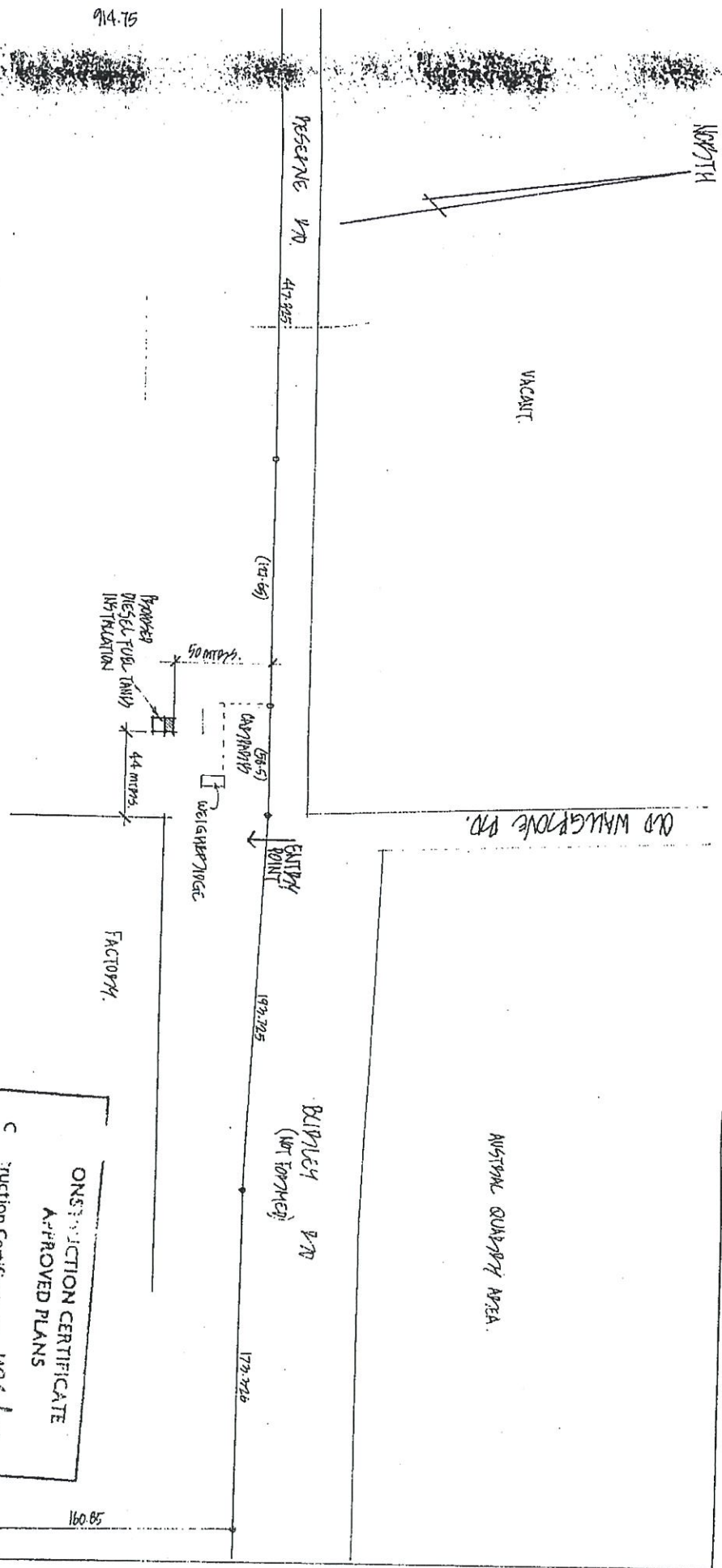
CONSTRUCTION CERTIFICATE
APPROVED PLANS

Construction Certificate No. 1196/00

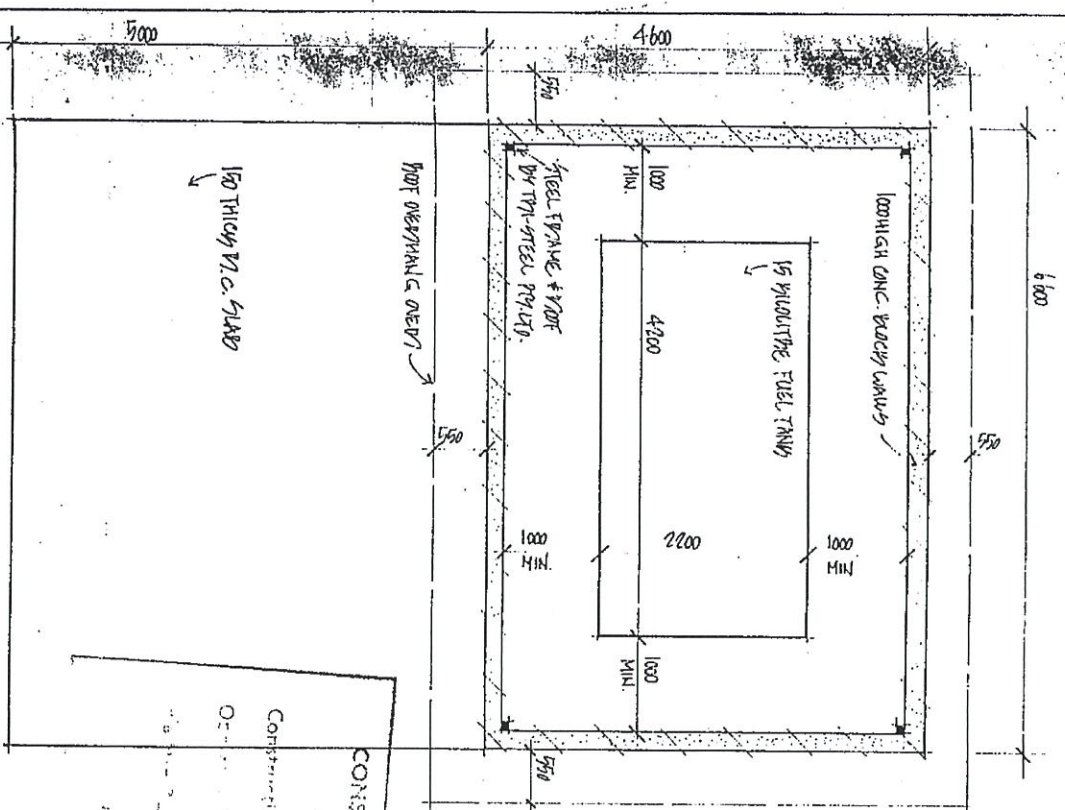
Issue Date: 29/9/00

Signature: [Signature]

Fairfield City



PLAN
Scale 1:50



150 THICK CON. SLAB

100mm HIGH CONC. BLOCK WALL

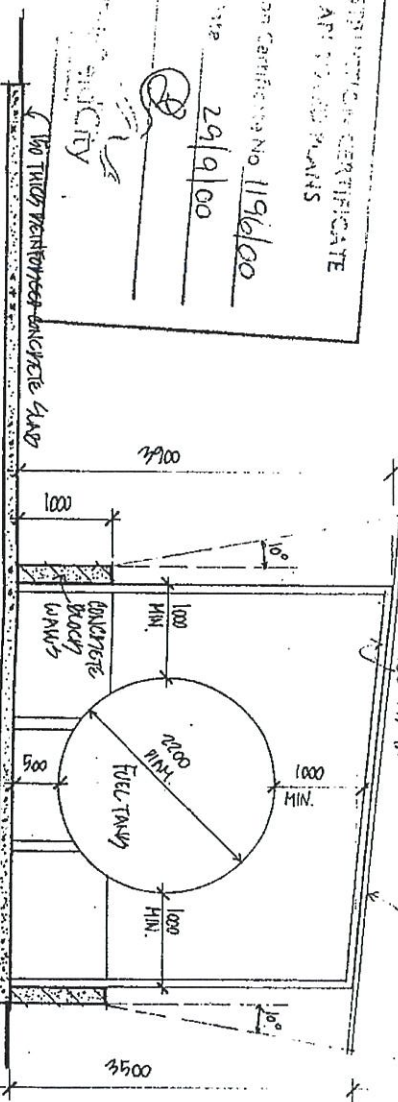
15mm THICK FUEL TANK

CONSTRUCTION CERTIFICATE
APPROVED PLANS

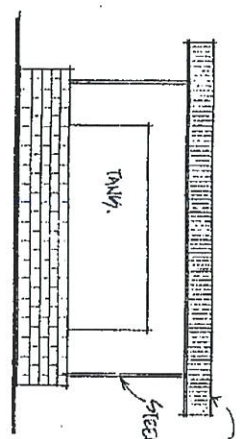
Construction Certificate No. 1196/00
Date 29/9/00

STRUCTURAL
ENGINEER

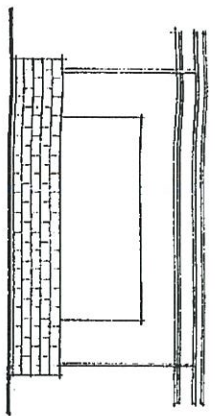
SECTION
Scale 1:50



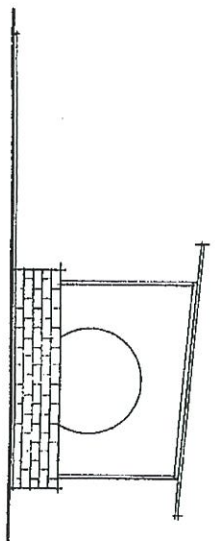
NORTH ELEVATION - REAR



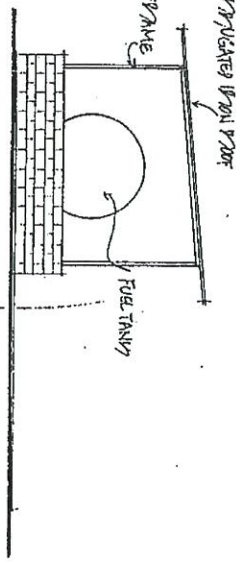
SOUTH ELEVATION - FRONT
Scale 1:100



EAST ELEVATION - SIDE



WEST ELEVATION - SIDE
Scale 1:100



PROPOSED DIESEL FUEL TANK INSTALLATION
FOR MONTEF RICH HOLDINGS LIMITED

PART A

Plant # 3

WORKCOVER AUTHORITY



LICENCE TO KEEP DANGEROUS GOODS

(Dangerous Goods Act 1975)

Application for new licence, amendment or transfer

OLD DGI LSS

1. Name of applicant

Austral Brick Co P/L

ACN

000 005 550

2. Site to be licensed

No Street

Plant no.3 Wallgrove Rd.

Suburb/Town

Postcode

Horsley Park

2164

3. Previous licence number (if known)

35-017790

4. Nature of site

BRICK MANUFACTURING

5. Emergency contact on site:

Phone

Name

8307700

MR. DAVID ADLAM

6. Site staffing:

Hours per day

24

Days per week

7

7. Major supplier of dangerous goods:

N/A

8. If new site or significant modification

Plan stamped by:

Accredited consultant's name:

N/A

DATA Date stamped

24 OCT 1994

ENTERED

9. Number of dangerous goods depots at site

2

10. Trading name or occupier's name

Austral Brick

11. Postal address of applicant

Suburb/Town

Postcode

PO Box 550

Penrith

2750

12. Contact for licence enquiries:

Phone

Fax

Name

8307700

831 2383

MR. G. SMITH

I certify that the details contained in this application (or the accompanying computer disk) are true and correct

13. Signature of applicant

Date

6 OCT 94

Please complete attached site sketch, depot listing and check sheet
(if required) and return to WorkCover Authority in envelope provided.

Form DG1

CHEMICAL STORAGE

Complete one section per depot

If you have more depots than the space provided, photocopy sufficient sheets first.

Depot number	Type of depot	Class	Licensed maximum storage capacity
1	Underground Tank	3	20 000 L

UN number	Shipping name	Pkg Class Group	EPG	Product or common name	Typical quantity	Unit quantity L kg m ³
1203	Petrol	3.1	11	✓	Petrol	20000 L

Depot number	Type of depot	Class	Licensed maximum storage capacity
2	Underground Tank	3	20000 L

UN number	Shipping name	Pkg Class Group	EPG	Product or common name	Typical quantity	Unit quantity L kg m ³
1203	Petrol	3.1	11	✓	Petrol	20000 L

Depot number	Type of depot	Class	Licensed maximum storage capacity

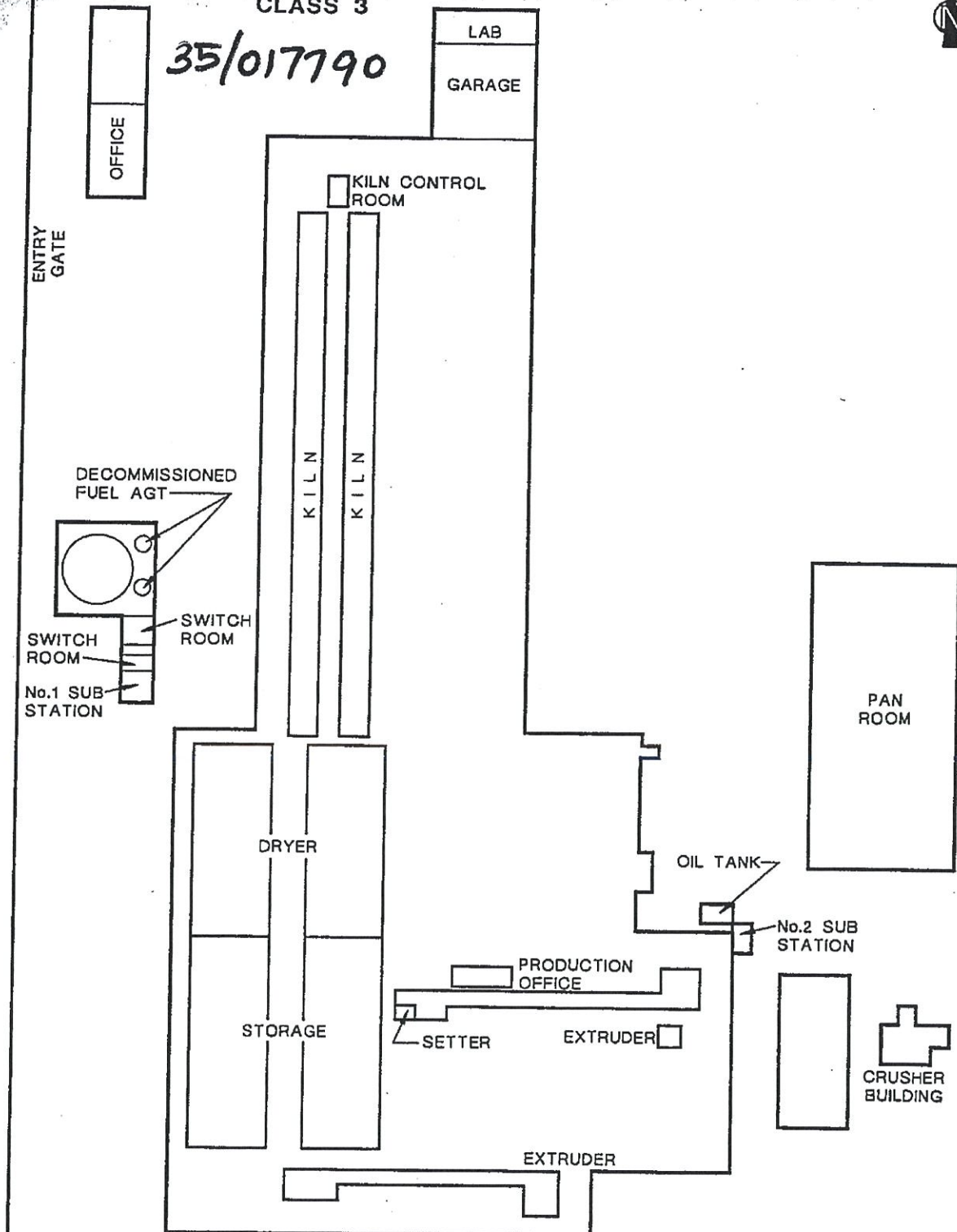
UN number	Shipping name	Pkg Class Group	EPG	Product or common name	Typical quantity	Unit quantity L kg m ³

Depot number	Type of depot	Class	Licensed maximum storage capacity

UN number	Shipping name	Pkg Class Group	EPG	Product or common name	Typical quantity	Unit quantity L kg m ³

JUST FUEL
DEPOTS 1 & 2
CLASS 3

35/017790



A4

DESIGNED VS	Woodward-Clyde <small>Engineering & solutions applied to the earth & the environment</small> AGC Woodward-Clyde Pty Ltd Level 6, 486-494 Pacific Highway St Leonards, NSW, Australia 2085 Tel (02) 436 4666 Fax (02) 436 4110	REVISION	AUSTRAL BRICKS	
DRAWN HC		SCALE NOT TO SCALE	PLANT No.3 SITE LAYOUT	
APPROVED VS		DRAWING 3383G.003		
DATE OCT '94		FIGURE 3		

ST01A/2/34

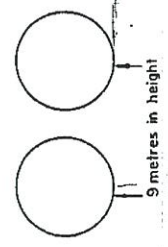
CHANDS ROAD
(Note: This is a former Brickworks site and Vacant Land)

Approx. 30m to
Brick Building

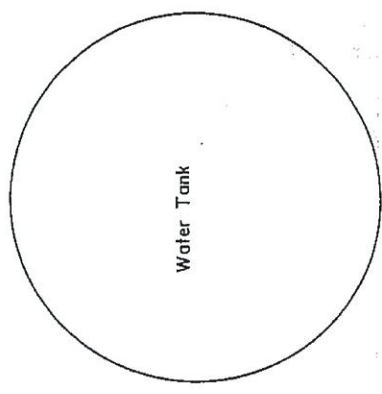
Brick Bund Wall Height 3m

Approx. 35m to
Brick Plant

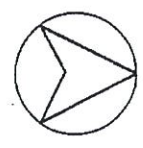
Brick Bund Ht. 2.1m



9 metres in height



Water Tank



Approx. 50m to Boundary
OLD WALLGROVE ROAD

AUSTRAL BRICKS
PLANT 3
OLD WALLGROVE ROAD
WALLGROVE NSW

Title		2-374	
M & M Protection Consultants		Checked by: [Signature]	
A Technical Division of		Drawn by: [Signature]	
McLennan		Scale: Approx	
ACN 004 651 512		Date: July '92	
		1:125	

INFLAMMABLE LIQUID ACT, 1915 (AS AMENDED)

for Registration of Premises or Storage under Division 1 or 2 of the transfer
amendment of any such Registration or for the keeping of Inflammable Liquid and/or Dangerous
Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915 (as amended), for the ensuing year.

CALTEX

DIRECTIONS

1. Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, Box R.216, Royal Exchange Sydney, N.S.W. 2000 and must be accompanied by the prescribed fee, as set out hereunder:

Registration of Premises (Fee \$3.00 p.a.) - For quantities not exceeding 300 gallons of mineral oil and 100 gallons of mineral spirit, if kept together; or 800 gallons of mineral oil and 100 gallons of mineral spirit, if kept in separate depots; or 500 gallons of mineral spirit, if kept in an underground tank depot; or 800 gallons of mineral oil and 500 gallons of mineral spirit, if mineral spirit is kept in an underground tank depot.

In addition to, or in lieu of the above, similar quantities of Dangerous Goods of Classes 1 and 2 may be kept under the like conditions; reading Dangerous Goods of Class 1 for the words Mineral Spirit and Dangerous Goods of Class 2 for the words Mineral Oil.

Store License, Div. A (Fee, \$6.50 p.a.) - For quantities in excess of those stated above, but not exceeding 4,000 gallons mineral oil and/or mineral spirit, and/or Dangerous Goods of Classes 1, 2 and 9.

Store License, Div. B (Fee, See Regulation 7) - For quantities exceeding 4,000 gallons of mineral spirit, and/or dangerous goods of Classes 1 and 2, and/or dangerous goods of Class 3.

For the keeping of Dangerous Goods of Classes 3 and/or 4. (\$15.00 p.a.).

Fees for the keeping of inflammable liquid and dangerous goods in excess of the above stated quantities and also for Liquid Petroleum Gas storage are set out in Regulation 7.

new licence to 15/1/73.

1. Name of occupier including full christian names.

X The Austral Brick Co. Pty. Ltd.

2. Trading Name (if any)

As above..

3. Locality of the premises in which the depot or depots are situated

No. or Name X

Street X Chandos Rd.

Town X Horsley Park.

4. Postal address

X PO Box 136 Liverpool. Postcode X 2170

5. Occupation

X Brickmakers.

6. Nature of premises (dwelling, garage etc.)

X Brickmaking Plant.

7. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.

PLEASE DETACH PLAN OF PREMISES

Depot No.	Construction of depots *			Inflammable liquid		Dangerous goods					
	Walls	Roof	Floor	Mineral spirit gallons	Mineral oil gallons	Class 1 gallons	Class 2 gallons	Class 3 lb	Class 4 cu ft	Class 5A water gal	Class 9 gallons
1	Underground Tank			2000							
2											
3											
4											
5											
6											
7											
8											
9											
10											

RECEIVED REVENUE A/C.

249, 6.50

(Date) 26/4/72

Receipt No. 1957

* If product is kept in tanks describe depots as underground or aboveground tanks.

THE AUSTRAL BRICK CO. PTY. LTD.
Signature of applicant

SECRETARY

Date of application 26 APR 1972

A. P. ...
CERTIFICATE OF INSPECTION



Healthy Environment, Healthy Community, Healthy Business

You are here: [Home](#) > [Contaminated land](#) > [Record of notices](#)

Search results

Your search for: LGA: Fairfield City Council

Matched 11 notices
relating to 4 sites.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
Fairfield	35 Lisbon Street	Fairfield Galvanising	3 former
Lansvale	161 Hume Highway	Former Mobil Service Station	3 former
Smithfield	25 Victoria Street	Drum Reconditioner	3 former
Yennora	44 Larra Street	Metal Plating Works	2 former

Page 1 of 1

20 May 2014

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Healthy Environment, Healthy Community, Healthy Business

You are here: [Home](#) > [Contaminated land](#) > [Record of notices](#)

Search results

Your search for: LGA: Blacktown City Council

Matched 7 notices
relating to 2 sites.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
Kings Park	21 Tattersall Road	Former Dow Corning Sealants Factory	1 current and 4 former
Seven Hills	27 Powers Road	Ma-Refine Oils Seven Hills	2 current

Page 1 of 1

20 May 2014

Connect

Feedback

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Contact

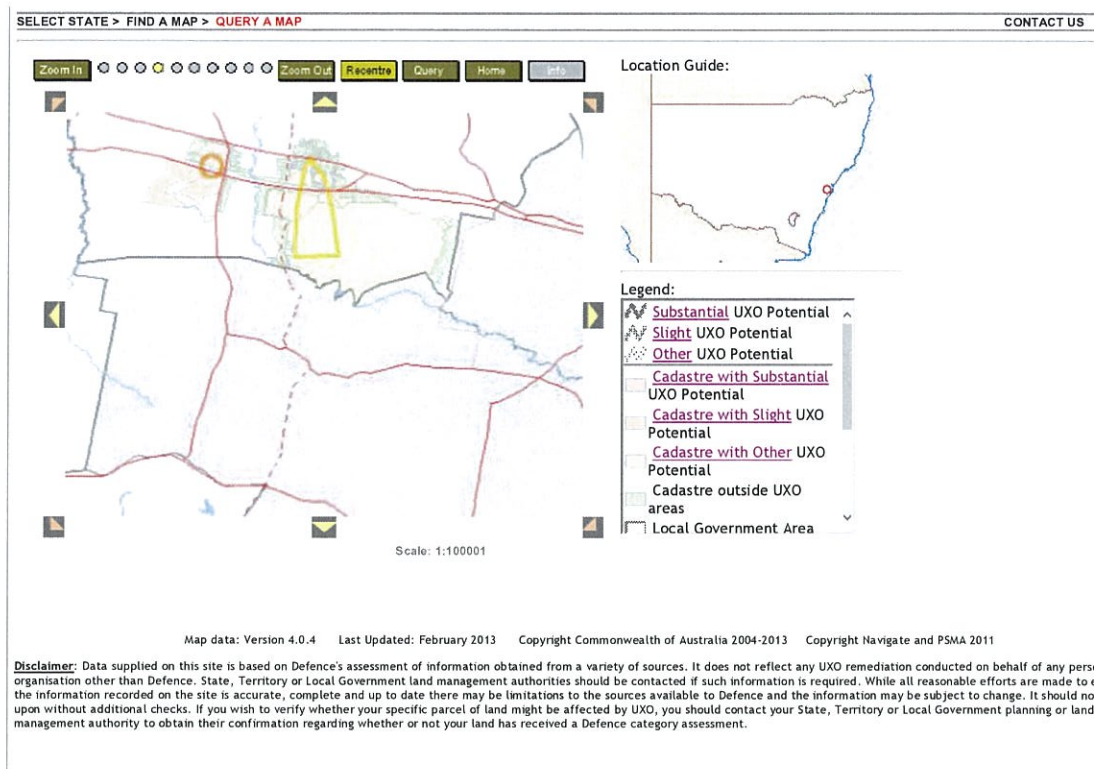
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ADVANCE LEGAL SEARCHERS PTY LIMITED

(ACN 147 943 842)

ABN 82 147 943 842

PO Box 149
Yagoona NSW 2199

Telephone: +612 9644 1659
Mobile: 0412 169 809
Facsimile: +612 8076 3026
Email: alsearch@optusnet.com.au

22nd May, 2014

AECOM PTY LIMITED

PO Box Q410, QVB PO,
SYDNEY NSW 1230

Attention: Alex Latham,

RE:

**Old Wallgrove Road,
Horsley Park
Job Ref: 60220882**

Note 1:	Lot 1	DP 843901	(page 1)
Note 2:	Lot 13	DP 1157491	(page 3)
Note 3:	Lot 6	DP 229769	(page 5)

Note 1:

Current Search

Folio Identifier 1/843901 (title attached)

DP 843901 (plan attached)

Dated 16th May, 2014

Registered Proprietor:

THE AUSTRAL BRICK COMPANY PROPRIETARY LIMITED

Title Tree Lot 1 DP 843901

Folio Identifier 1/843901

CA 58576

Conveyance Book 2842 No 807

Conveyance Book 2154 No 603

Conveyance Book 1174 No 133

Conveyance Book 978 No 230

Summary of Proprietors Lot 1 DP 843901

Year	Proprietor
	(Lot 1 DP 843901)
1994 – todate	The Austral Brick Company Proprietary Limited
<i>(2000 – todate)</i>	<i>(Various current commercial leases shown on Folio Identifier 1/843901)</i>
<i>(1994 – todate)</i>	<i>(various commercial leases shown on Historical Folio 1/843901)</i>
	(Part Portion 45 Parish Melville – Area 216 Acres 3 Roods 12 ½ Perches – Conv Bk 2842 No 807)
1967 – 1994	The Austral Brick Company Proprietary Limited
	(Part Portion 45 Parish Melville and other lands – Conv Bk 2154 No 603)
1950 – 1967	Penfold's Wines Pty Limited
1941 – 1950	Elisha William Thompson, farmer / executor John Thomas Allen, farmer / executor Dudley Seymour Rowe, solicitor / executor Frederick Thomas Bigg, estate
	(Part Portion 45 Parish Melville and other lands – Conv Bk 1174 No 133)
1919 – 1941	Frederick Thomas Bigg, farmer / grazier
	(Part Portion 45 Parish Melville and other lands – Conv Bk 978 No 230)
1912 – 1919	Charles Pocock, cordial manufacturer

Note 2:

Current Search

Folio Identifier 13/1157491 (title attached)
DP 204009 (plan attached)
Dated 16th May, 2014
Registered Proprietor:
TRANSGRID

Title Tree
Lot 13 DP 1157491

Folio Identifier 13/1157491

Folio Identifier 8/229769

CA 70459

Conveyance Book 2515 No 285

Conveyance Book 2154 No 603

Conveyance Book 772 No 357

Summary of Proprietors Lot 13 DP 1157491

Year	Proprietor
	(Lot 13 DP 1157491)
2011 – todate	Transgrid
	(Lot 8 DP 229769)
2009 – 2011	Transgrid
1997 – 2009	The Electricity Commission of New South Wales
<i>(1997 – 2011)</i>	<i>(various commercial leases shown on Historical Folio 8/229769)</i>
	(Lots 7 to 10 Section 2, Lots 9 to 11 Section 3, Lot 1 and part Lot 2 Section 4 DP 979361 – Area 114 Acres 0 Roods 28 Perches – Conv Bk 2515 No 285)
1959 – 1997	The Electricity Commission of New South Wales
	(Lots 7 to 10 Section 2, Lots 9 to 11 Section 3, Lot 1 and part Lot 2 Section 4 DP 979361 and other lands – Conv Bk 2154 No 603)
1950 – 1959	Penfold's Wines Pty Limited
1941 – 1950	Elisha William Thompson, farmer / executor John Thomas Allen, farmer / executor Dudley Seymour Rowe, solicitor / executor Frederick Thomas Bigg, estate
	(Lots 7 to 10 Section 2, Lots 9 to 11 Section 3, Lot 1 and part Lot 2 Section 4 DP 979361 and other lands – Conv Bk 772 No 357)
1905 – 1941	Frederick Thomas Bigg, farmer / grazier

Note 3:

Current Search

Folio Identifier 6/229769 (title attached)

DP 229769 (plan attached)

Dated 16th May, 2014

Registered Proprietor:

TRANSGRID

Title Tree
Lot 6 DP 229769

Folio Identifier 6/229769

CA 70459

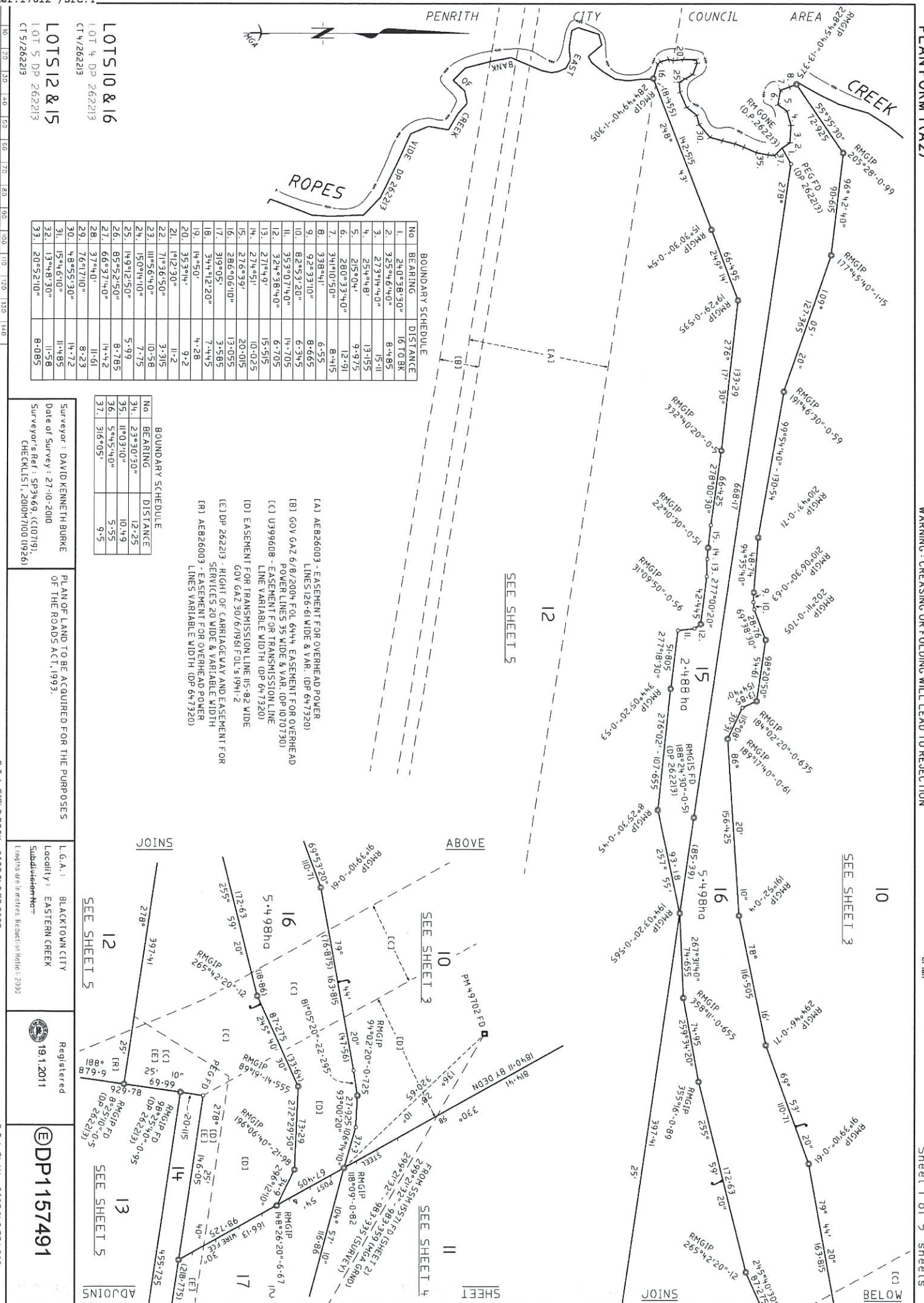
Conveyance Book 2803 No 998

Conveyance Book 1174 No 133

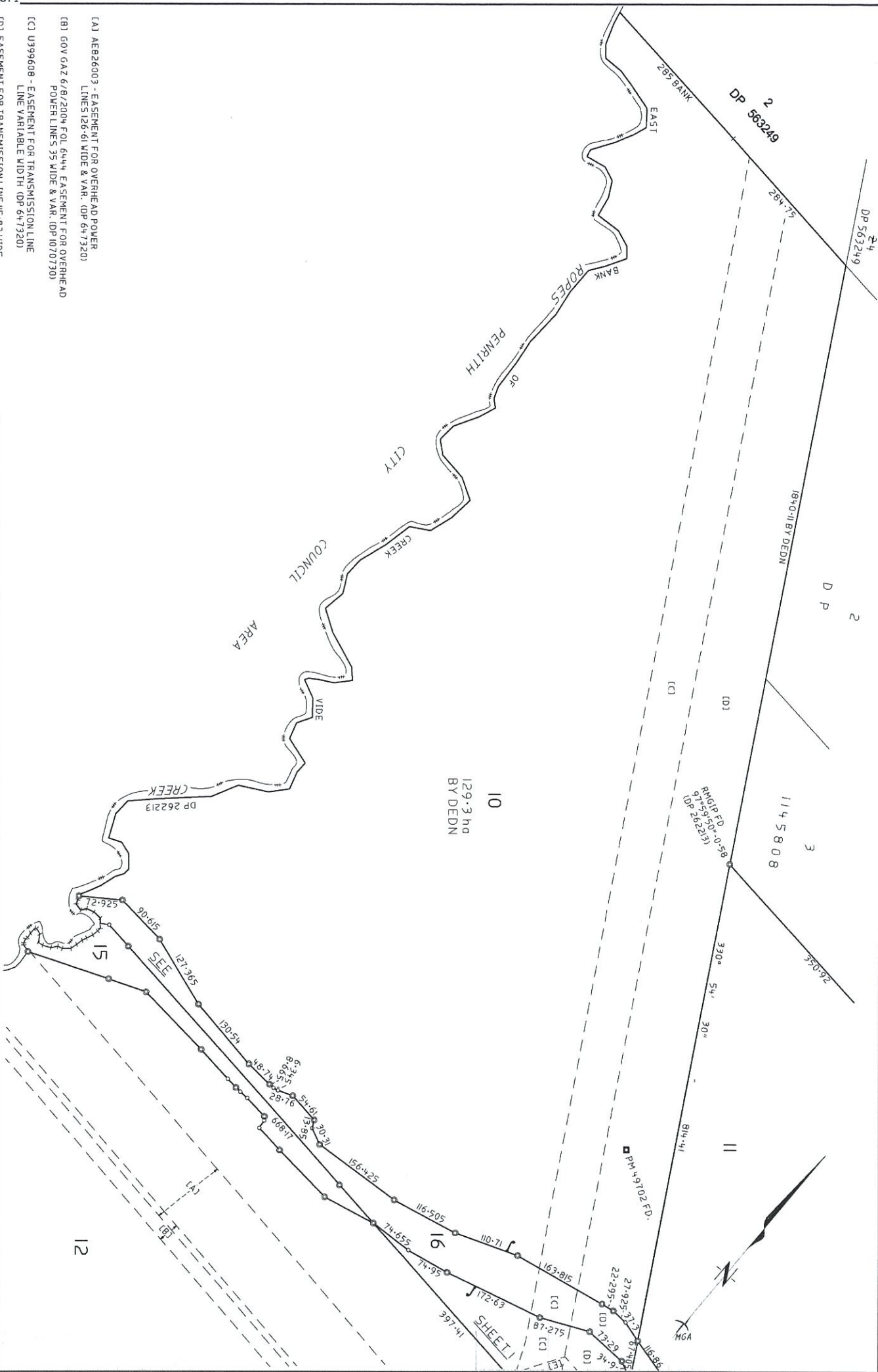
Conveyance Book 978 No 230

Summary of Proprietors Lot 6 DP 229769

Year	Proprietor
	(Lot 6 DP 229769)
2005 – todate	Transgrid
1997 – 2005	The Electricity Commission of New South Wales
	(Part Portions 29, 30, 31 & 45 Parish Melville – Area 61 Acres – Conv Bk 2803 No 998)
1966 – 1997	The Electricity Commission of New South Wales
	(Part Portions 29, 30, 31 & 45 Parish Melville and other lands – Conv Bk 2154 No 603)
1950 – 1967	Penfold's Wines Pty Limited
1941 – 1950	Elisha William Thompson, farmer / executor John Thomas Allen, farmer / executor Dudley Seymour Rowe, solicitor / executor Frederick Thomas Bigg, estate
	(Part Portions 29, 30, 31 & 45 Parish Melville and other lands – Conv Bk 1174 No 133)
1919 – 1941	Frederick Thomas Bigg, farmer / grazier
	(Part Portions 29, 30, 31 & 45 Parish Melville and other lands – Conv Bk 978 No 230)
1912 – 1919	Charles Pocock, cordial manufacturer







LINE 5126.61 WIDE & VAR. (DP 647320)

POWERLINES 35 WIDE & VAR. (DP 1070730)

LINE VARIABLE WIDTH (DP 647320)

GOV GAZ 30/6/1961 FOL'S 1941-2

SERVICES 20 WIDE & VARIABLE WIDTH

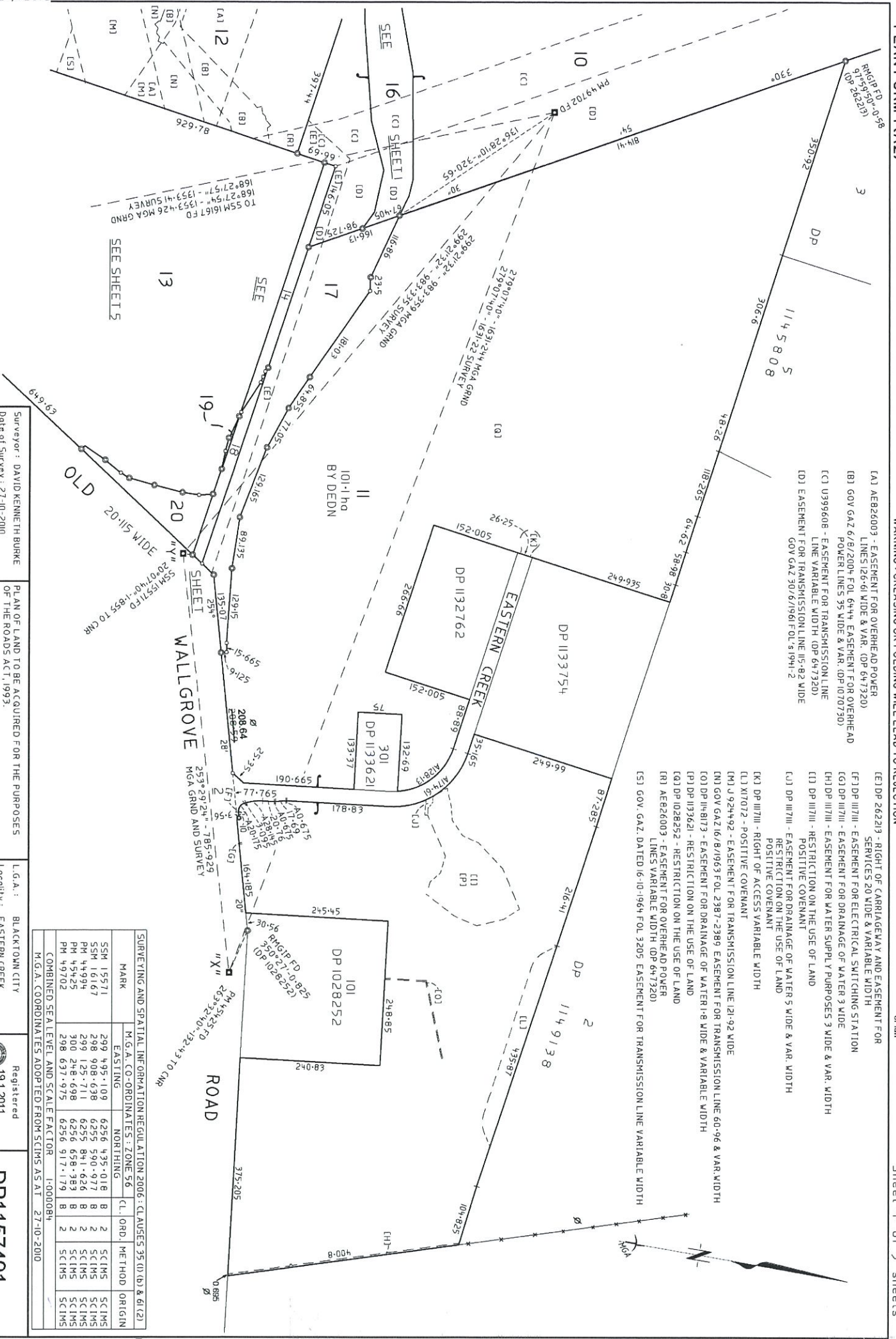
CHECKLIST, 2010M7100 (1926)

OF THE ROADS ACT, 1993.

Lengths are in metres. Reduction Ratio: 4000

11-70

2017



Surveyor: DAVID KENNETH BURKE
 Date of Survey: 27-10-2010
 Surveyor's Ref: SP3469 (C10719)
 CHECKLIST: 200M7100 (1926)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

L.G.A.: BLACKTOWN CITY
 Locality: EASTERN CREEK
 Scale: 1:1000
 Registered 19.1.2011

DP1157491

MARK	M.G.A. CO-ORDINATES ZONE 56	CL. OR.	METHOD	ORIGIN
SSM 15571	299 495.109	6256 435.018	B	2
SSM 16167	298 908.638	6255 590.977	B	2
PM 44994	299 125.711	6255 841.626	B	2
PM 449425	300 248.698	6256 658.383	B	2
PM 49702	298 637.975	6256 917.179	B	2

COMBINED SEA LEVEL AND SCALE FACTOR				
M.G.A. COORDINATES ADOPTED FROM SCIMS AS AT 27-10-2010				

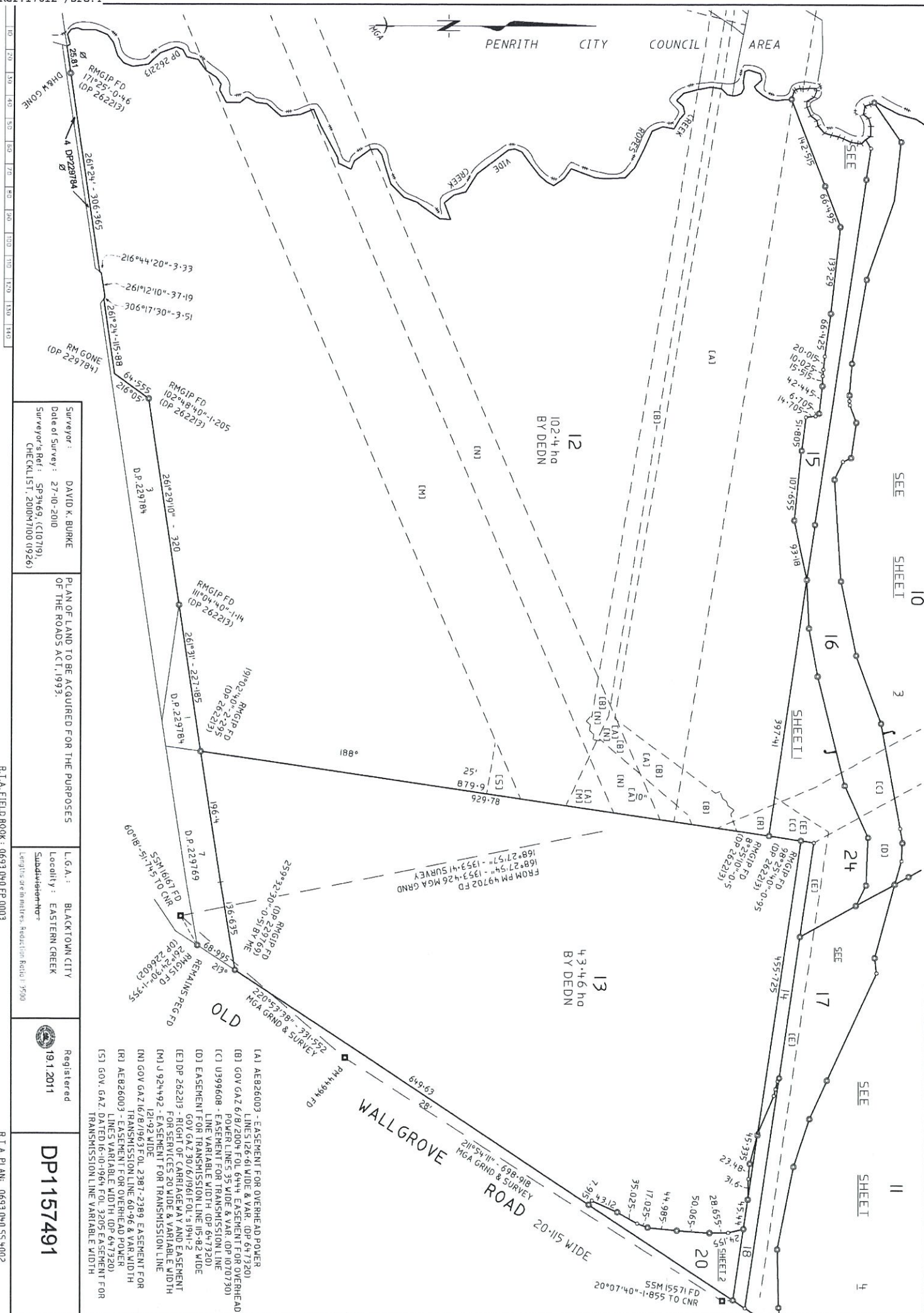
SURVEYING AND SPATIAL INFORMATION REGULATION 2006: CLAUSES 35 (1) (b) & 61 (2)				
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R.T.A. FIELD BOOK: 0693 040 FP 0003

R.T.A. PLAN: 0693 040 55 4002

VARIOUS AMENDMENTS VIDE 2012-985

8 8 2012



DEPOSITED PLAN ADMINISTRATION SHEET

Sheet 1 of 2 sheet(s)

SIGNATURES, SEALS and STATEMENTS of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants.

LOTS 15, 16, 17, 18, 19 & 20 ARE REQUIRED FOR ROAD AND AFTER CONSTRUCTION WILL BE DEDICATED AS PUBLIC ROAD UNDER SECTION 10 OF THE ROADS ACT, 1993.

Office Use Only

DP1157491

Registered: 19.1.2011



Office Use Only

Title System: TORRENS & OLD SYSTEM

Purpose: ACQUISITION (ROADS ACT 1993)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

LGA: BLACKTOWN CITY

Locality: EASTERN CREEK

Parish: MELVILLE

County: CUMBERLAND

Use PLAN FORM 6A
for additional certificates, signatures, seals and statements

Crown Lands NSW/Western Lands Office Approval

I.....in approving this plan certify
(Authorised Officer)

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 certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to:

the proposed..... set out herein
(insert 'subdivision' or 'new road')

* Authorised Person/General Manager/Accredited Certifier

Consent Authority:

Date of Endorsement:

Accreditation no:

Subdivision Certificate no:

File no:

Delete whichever is inapplicable.

Survey Certificate

I, DAVID KENNETH BURKE
Of ROADS AND TRAFFIC AUTHORITY, NSW
a surveyor registered under the *Surveying and Spatial Information Act, 2002*, certify that the survey represented in this plan is accurate, has been made in accordance with the *Surveying and Spatial Information Regulation, 2006* and was completed on: 27/10/2010

The survey relates to LOTS 15, 16, 17, 18, 19, 20 AND CONNECTIONS
(specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)

Signature *A. K. Burke* Dated: 17.11.10
Surveyor registered under the *Surveying and Spatial Information Act, 2002*

Datum Line: "X" - "Y" (SHEET 4)

Type: Urban

BD

Plans used in the preparation of survey/compilation

DP 229769, DP 647320, DP 226602,
DP 262213, DP 1028252, DP 1070730,
DP 1117111, DP 1133621, DP 1153614

(if insufficient space use Plan Form 6A annexure sheet)

SURVEYOR'S REFERENCE: SP 3469, (CI0719), CHECKLIST,
2010M7100 (1926)

DEPOSITED PLAN ADMINISTRATION SHEET

Sheet 2 of 2 sheet(s)

PLAN OF LAND TO BE ACQUIRED FOR THE
PURPOSES OF THE ROADS ACT, 1993.

Office Use Only

DP1157491

Office Use Only

Registered:



19.1.2011

Subdivision Certificate No:

Date of Endorsement:

THIS PLAN IS EXEMPT FROM SUBDIVISION
CERTIFICATION PURSUANT TO A DECISION
BETWEEN DUAP, RTA & LPI NSW - SEE 1997
M6 (Item 2). LAND IN THIS PLAN COMPRISES
ONLY ROAD OR ROAD AND RESIDUE.

[Signature]

AUTHORISED OFFICER
ROADS AND TRAFFIC AUTHORITY, NSW

APPROVED:

[Signature]

MANAGER, SURVEYING
REGIONAL OPERATIONS AND
ENGINEERING SERVICES
ROADS AND TRAFFIC AUTHORITY, NSW

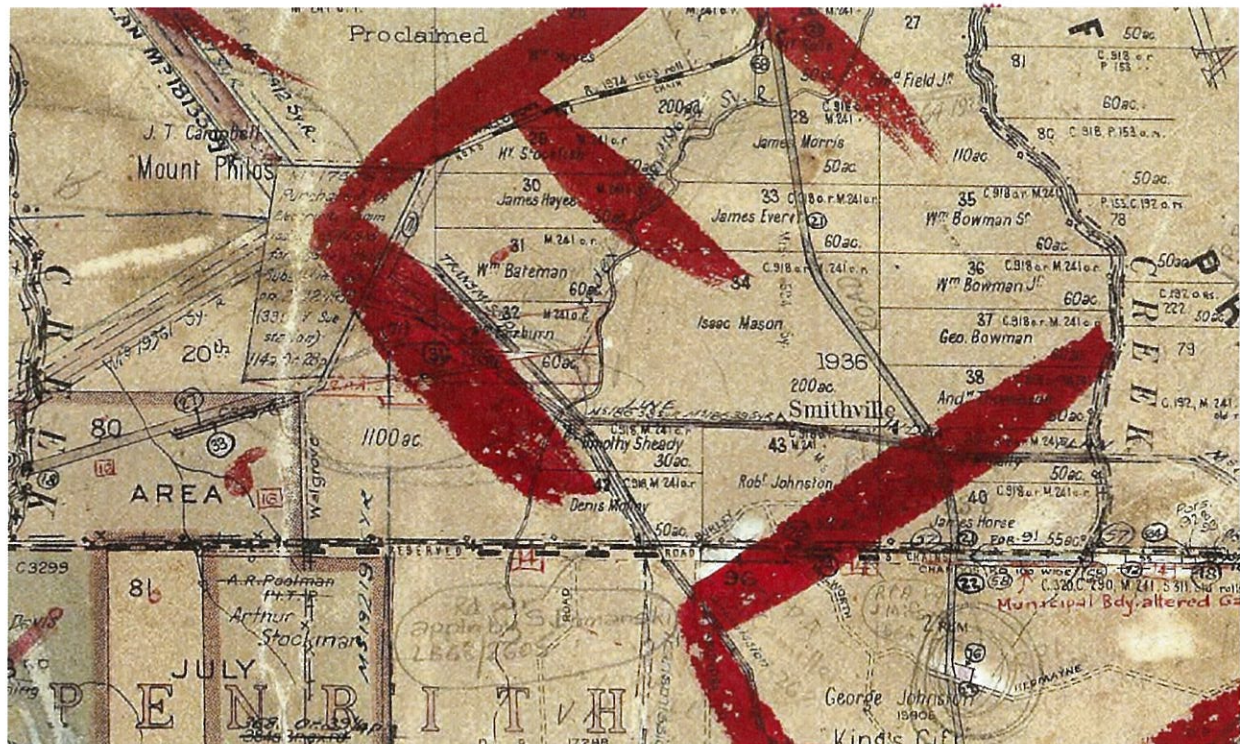
SURVEYOR'S REFERENCE: SP 3469, (C10719), CHECKLIST, 2010M7100 (1926)

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2.33	0.5009
2.35	0.5019
2.37	0.5029
2.39	0.5039
2.41	0.5049
2.43	0.5059
2.45	0.5069
2.47	0.5079
2.49	0.5089
2.51	0.5099
2.53	0.5109
2.55	0.5119
2.57	0.5129
2.59	0.5139
2.61	0.5149
2.63	0.5159
2.65	0.5169
2.67	0.5179
2.69	0.5189
2.71	0.5199
2.73	0.5209
2.75	0.5219
2.77	0.5229
2.79	0.5239
2.81	0.5249
2.83	0.5259
2.85	0.5269
2.87	0.5279
2.89	0.5289
2.91	0.5299
2.93	0.5309
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2.99	0.5339
3.01	0.5349
3.03	0.5359
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3.07	0.5379
3.09	0.5389
3.11	0.5399
3.13	0.5409
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3.37	0.5529
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3.43	0.5559
3.45	0.5569
3.47	0.5579
3.49	0.5589
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3.85	0.5769
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3.89	0.5789
3.91	0.5799
3.93	0.5809
3.95	0.5819
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5.67	0.6679
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5.71	0.6699
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5.83	0.6759
5.85	0.6769
5.87	0.6779
5.89	0.6789
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9.67	0.8679
9.69	0.8689
9.71	0.8699
9.73	0.8709
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11.87	0.9779
11.89	0.9789
11.91	0.9799
11.93	0.9809
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11.97	0.982

FEET INCHES		METRES	
40	10 1/2	13.492	13.492
40	10 1/2	13.492	13.492
LINKS			
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2.91		0.463	
2.94		0.468	
2.97		0.473	
3.00		0.478	
3.03		0.483	
3.06		0.488	
3.09		0.493	
3.12		0.498	
3.15		0.503	
3.18		0.508	
3.21		0.513	
3.24		0.518	
3.27		0.523	
3.30		0.528	
3.33		0.533	
3.36		0.538	
3.39		0.543	
3.42		0.548	
3.45		0.553	
3.48		0.558	
3.51		0.563	
3.54		0.568	
3.57		0.573	
3.60		0.578	
3.63		0.583	
3.66		0.588	
3.69		0.593	
3.72		0.598	
3.75		0.603	
3.78		0.608	
3.81		0.613	
3.84		0.618	
3.87		0.623	
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3.96		0.638	
3.99		0.643	
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4.08		0.658	
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4.95		0.803	
4.98		0.808	
5.01		0.813	
5.04		0.818	
5.07		0.823	
5.10		0.828	
5.13		0.833	
5.16		0.838	
5.19		0.843	
5.22		0.848	
5.25		0.853	
5.28		0.858	
5.31		0.863	
5.34		0.868	
5.37		0.873	
5.40		0.878	
5.43		0.883	
5.46		0.888	
5.49		0.893	
5.52		0.898	
5.55		0.903	
5.58		0.908	
5.61		0.913	
5.64		0.918	
5.67		0.923	
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5.88		0.958	
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AC RD P		HA	
B 1 3/4 3/4			3-033
141 17 1/2			37.1

[illegible]

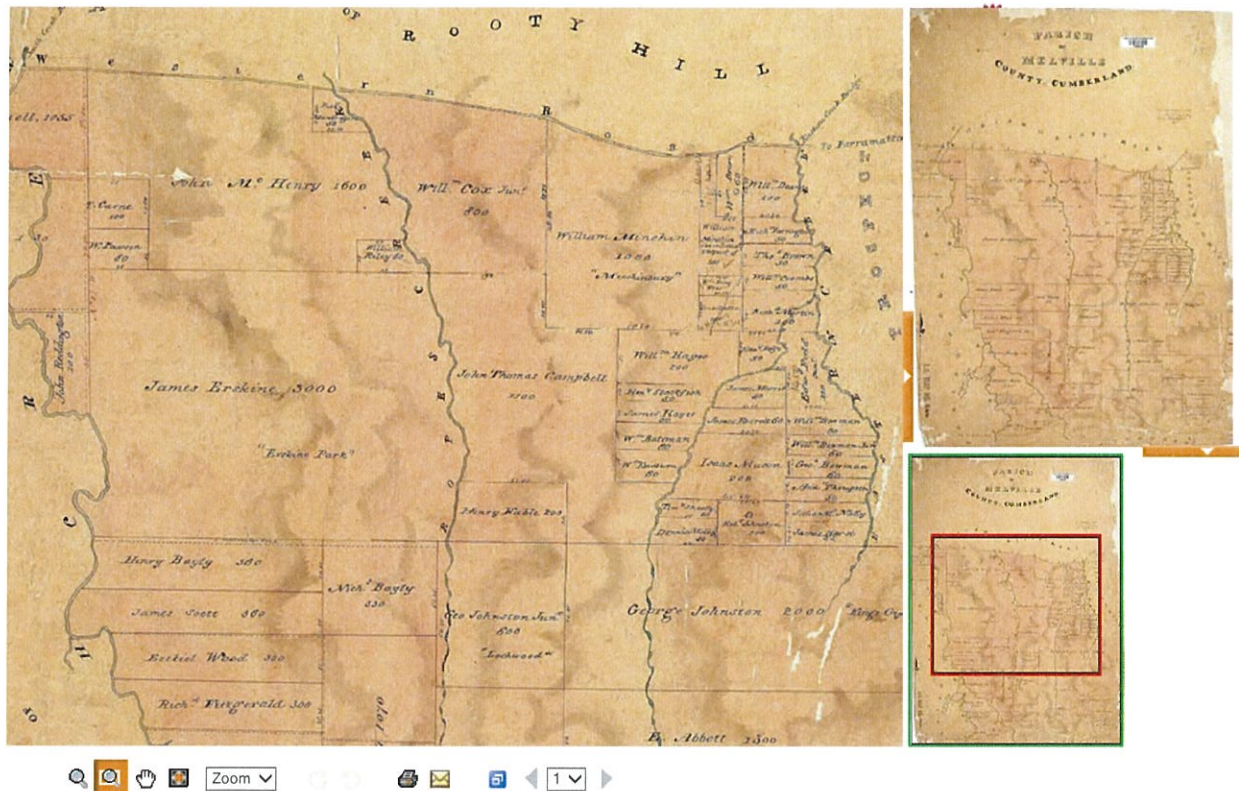
I, Bruce Richard Davies, Registrar General for New South Wales, certify that this negative is a photograph made in a permanent record of a document in my custody on 16th day of June, 1977.



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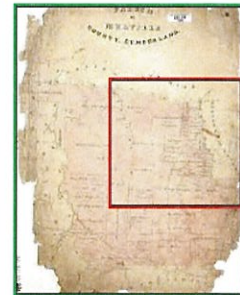
More info



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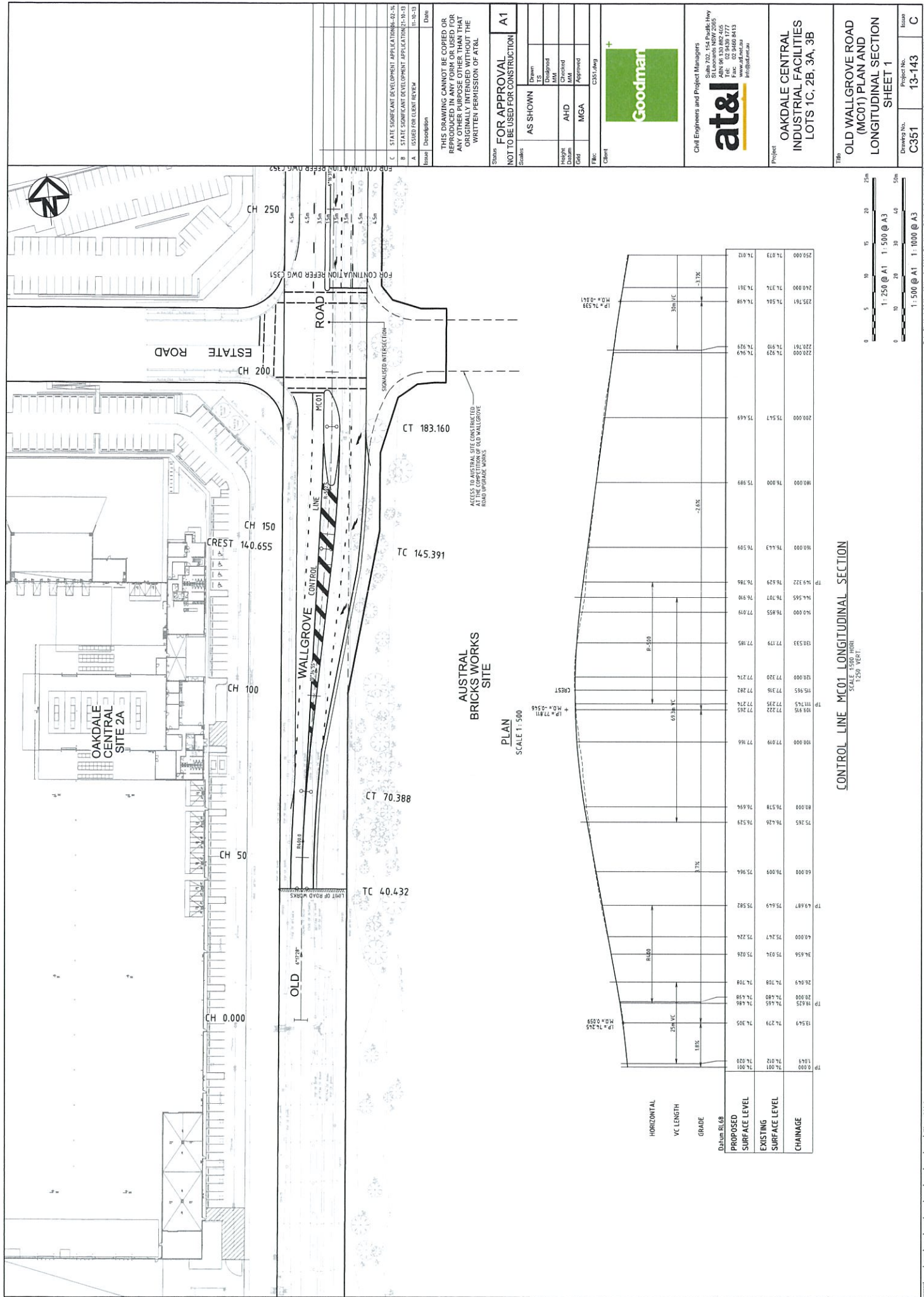
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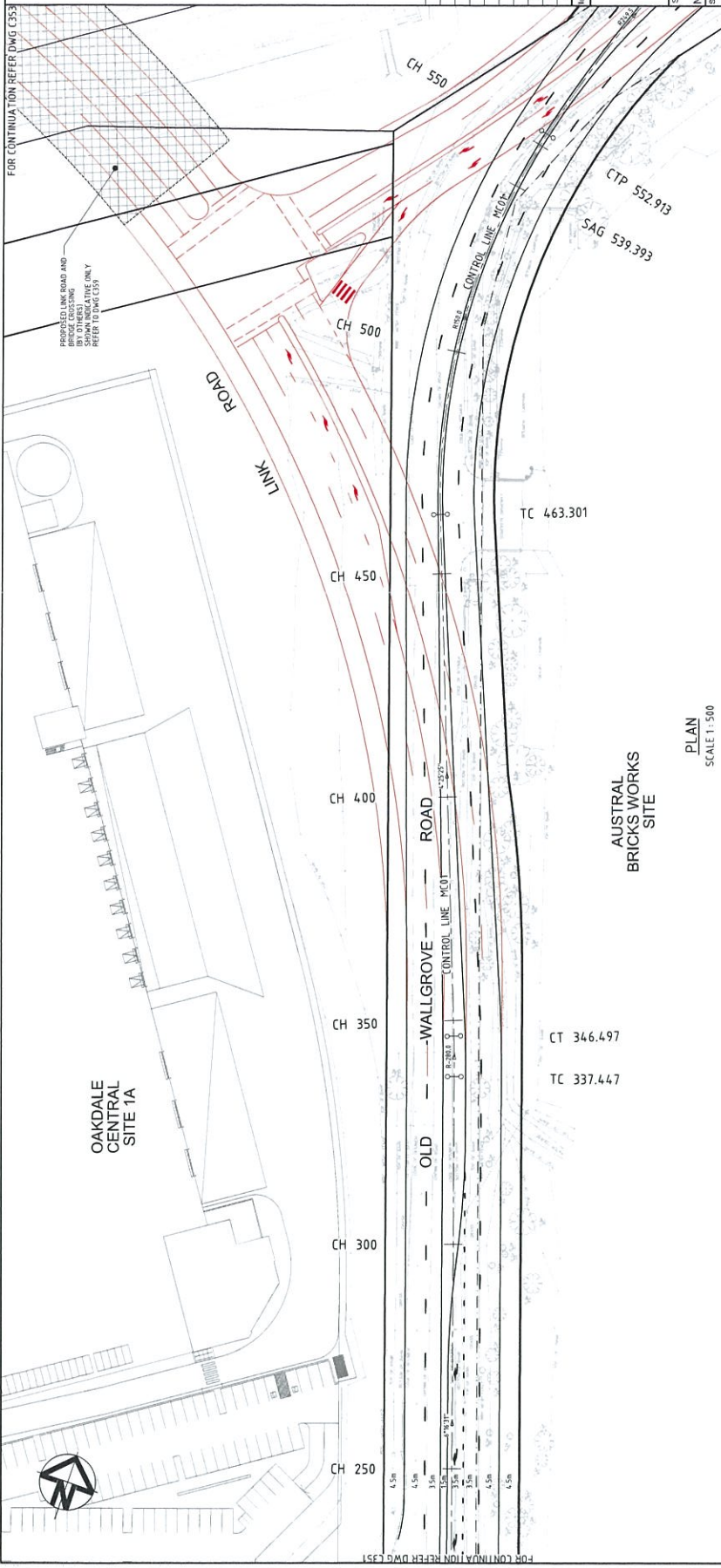
Land & Property
Information

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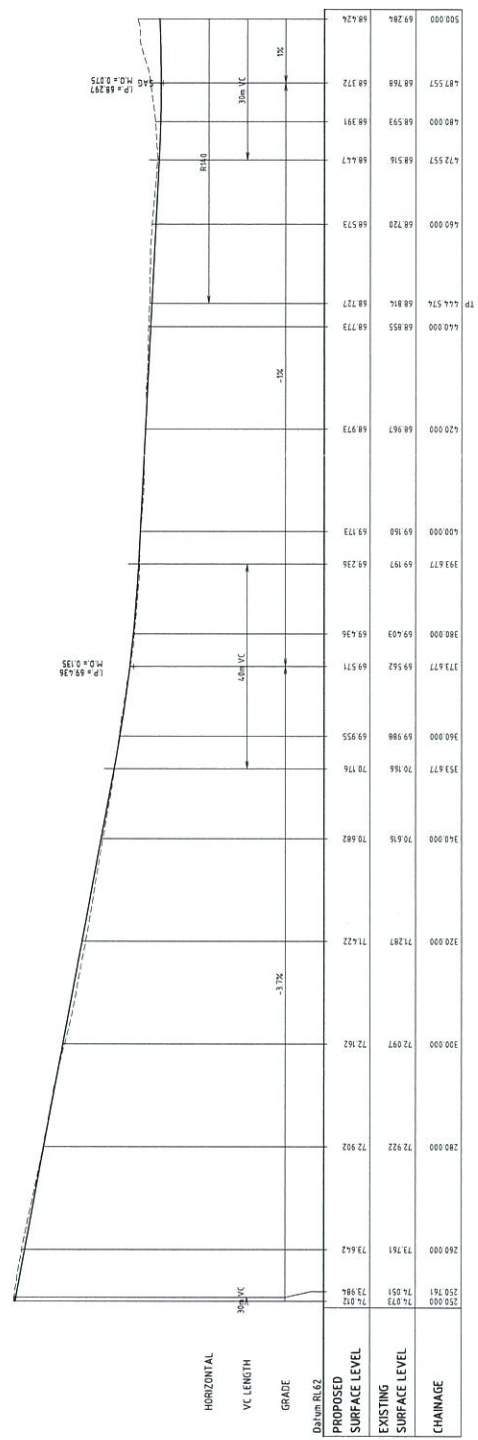
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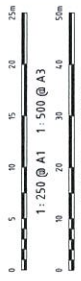




PLAN
SCALE 1:500



CONTROL LINE MC01 LONGITUDINAL SECTION
SCALE: 1:500 HORIZ
1:250 VERT



FOR CONTINUATION REFER DWG C353

PROVIDED LINK ROAD AND BRIDGE CROSSING
PROPOSED LINK ROAD AND BRIDGE CROSSING
SURF INDICATIVE ONLY
REFER TO DWG C353

CH 550

CH 500

CH 450

CH 400

CH 350

CH 300

CH 250

OLD WALLGROVE ROAD

LINK ROAD

CONTROL LINE MC01

CTP 552.913

SAG 539.393

TC 463.301

TC 346.497

TC 337.447

OAKDALE CENTRAL SITE 1A

AUSTRAL BRICKS WORKS SITE

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1A)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1B)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1C)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1D)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1E)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1F)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1G)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1H)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1I)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1J)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1K)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1L)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1M)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1N)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1O)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1P)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1Q)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1R)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1S)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1T)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1U)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1V)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1W)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1X)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1Y)

STATE SIGNIFICANT DEVELOPMENT APPLICATION (S1-1Z)

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FOR APPROVAL

NOT TO BE USED FOR CONSTRUCTION

A1

AS SHOWN

Drawn

TS

Checked

TS

Reviewed

MM

Approved

MM

Height

Datum

Grid

MGA

File

C352.dwg

Client

Goodman

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Project

OAKDALE CENTRAL INDUSTRIAL FACILITIES LOTS 1C, 2B, 3A, 3B

Title

OLD WALLGROVE ROAD (MC01) PLAN AND LONGITUDINAL SECTION SHEET 2

Drawn No.

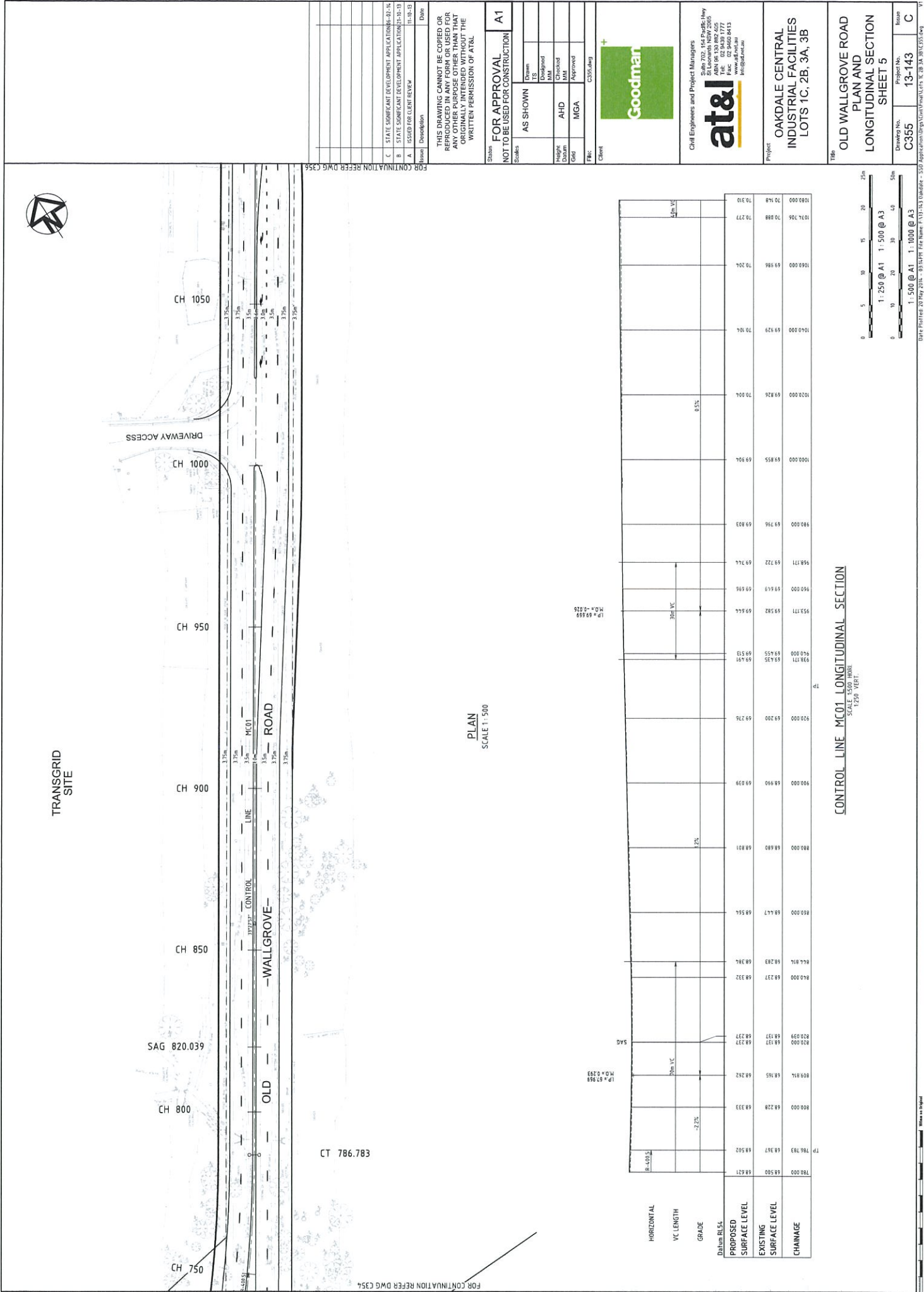
C352

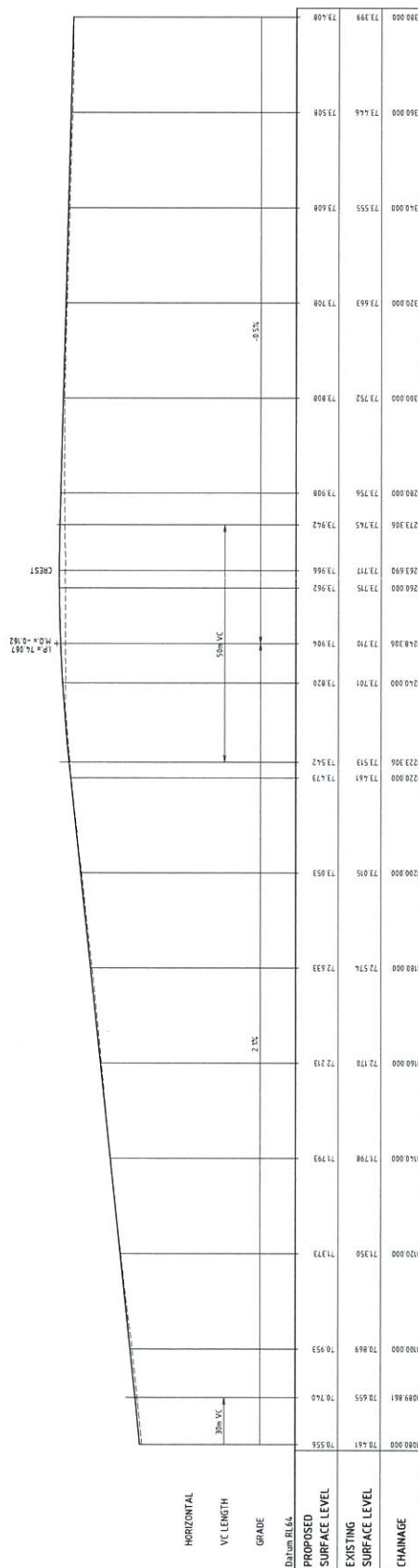
Project No.

13-143

Issue

C





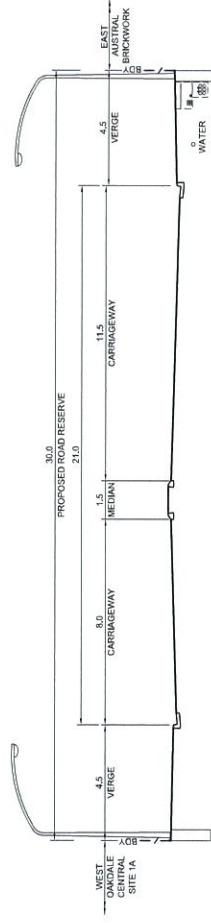
CONTROL LINE MC01 LONGITUDINAL SECTION



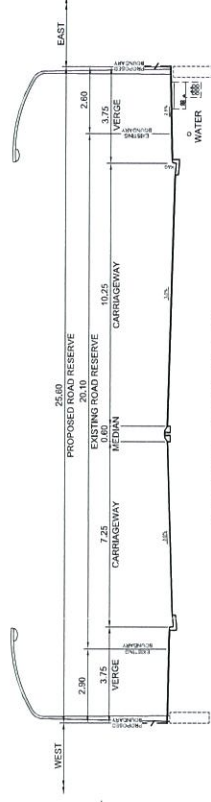
Drawing No. C356	Project No. 13-143	Issue C
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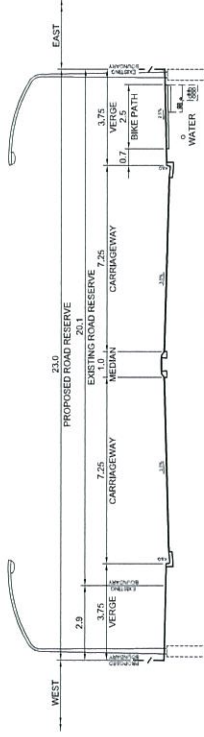
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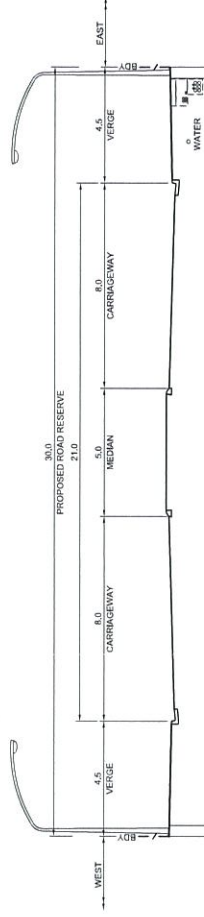
OLD WALLGROVE ROAD
TYPICAL SECTION (CH200 - CH270)
SCALE 1:100



OLD WALLGROVE ROAD
TYPICAL SECTION
CH 1050
SCALE 1:100



OLD WALLGROVE ROAD
TYPICAL SECTION
SCALE 1:100



LINK ROAD
TYPICAL SECTION
SCALE 1:100



1:100 @ A1 1:200 @ A3

Issue	Description	Date
B	DRAWING SECTION UPDATED	26-05-14
C	STATE SIGNIFICANT DEVELOPMENT APPLICATION 4-02-14	
B	STATE SIGNIFICANT DEVELOPMENT APPLICATION 18-13	
A	ISSUED FOR CLIENT REVIEW	14-08-13

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Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Scale: 1:100 @ A1

Drawn	LS
Checked	MM
Design	MM
Approved	MM
Client	AHD
Grid	MGA

File: C:\30-04-14\...

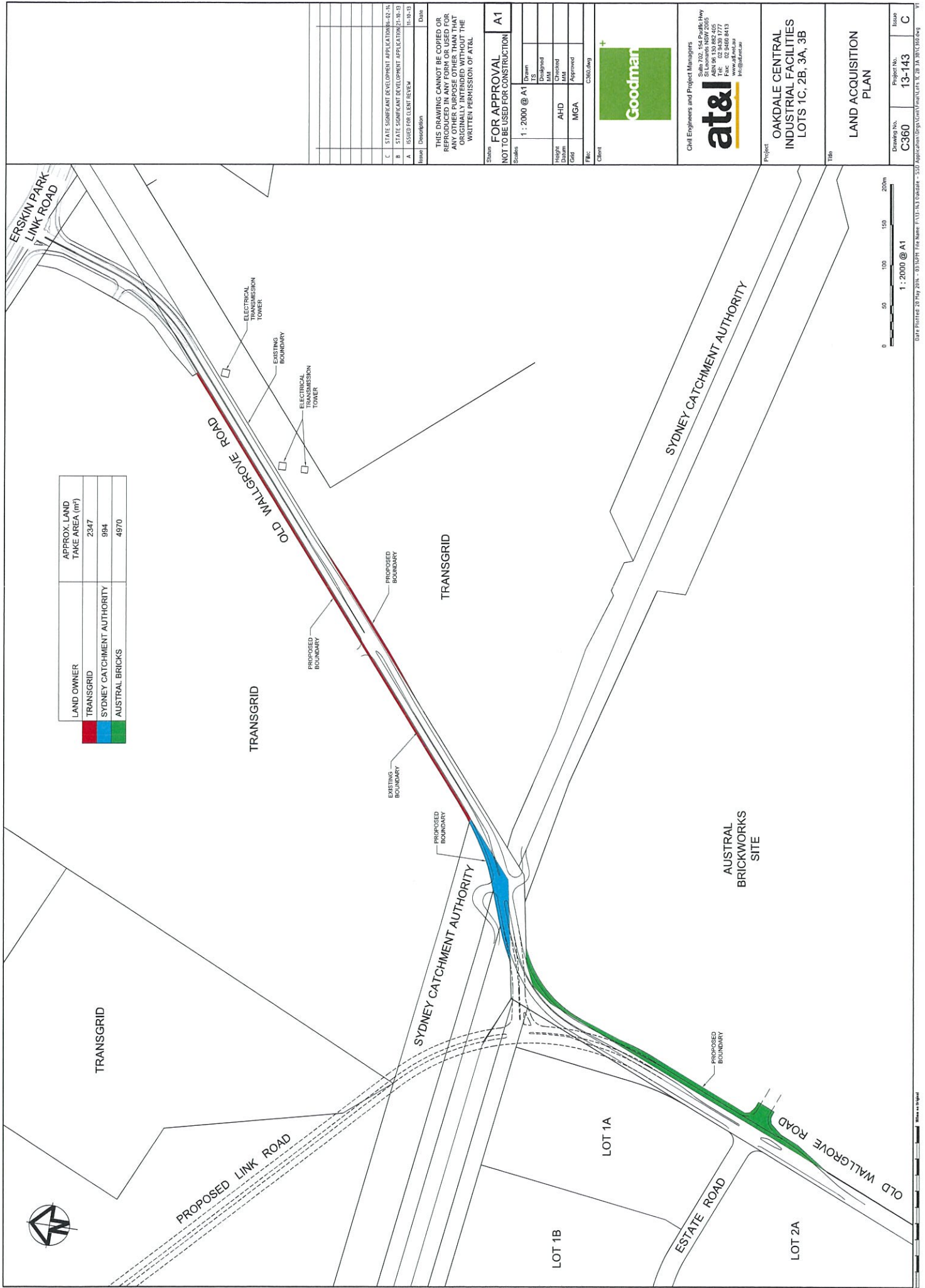


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Project:
OAKDALE CENTRAL
INDUSTRIAL FACILITIES
LOTS 1C, 2B, 3A, 3B

Title:
TYPICAL
SECTIONS

Drawing No.	C358	Project No.	13-143	Revision	D
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Appendix C

Plates



Plate 1: soil profile in road batter, east side of Old Wallgrove Road near Austral Bricks. Clay soil grading to weathered shale



Plate 2: visual barrier (berm), Austral Bricks

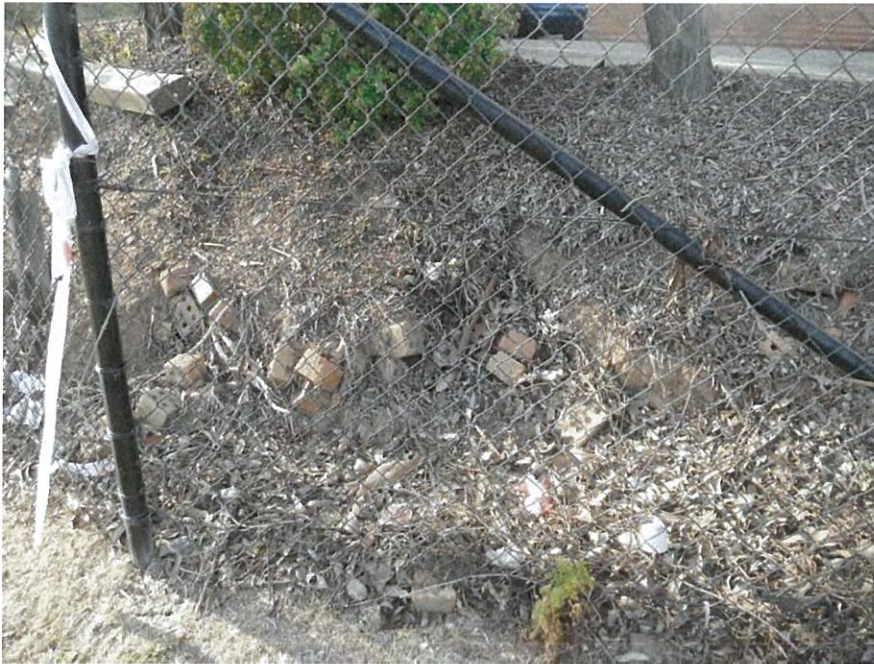


Plate 3: bricks in soil, Austral Bricks, near car park.



Plate 4: 3 x septic tanks, Austral Bricks. Treated effluent is used for lawn irrigation.



Plate 5: slip lane, west side of Old Wallgrove Road, north of water pipeline easement. 3 x small stockpiles of soil/gravel and general litter-



Plate 6: east side of Old Wallgrove Road, view to south. Plate shows Transgrid land on left side of fence



Plate 7. View to south of Old Wallgrove Road, near main entrance to the Transgrid substation



Plate 8. View to south of Old Wallgrove Road, south of main entrance to the Transgrid substation