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Stormwater Management Strategy

Waterloo South

SEARS Report

DOCUMENT CONTROL

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APPROVALS

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1. Executive Summary

WSce has been engaged by Stockland to undertake a stormwater management report and assessment to support the Concept Masterplan for the Waterloo South Development

The Stormwater Management Report has been prepared to respond to the Secretary's Environmental Assessment Requirements (SEARs) for the proposed Waterloo Estate South development. The stormwater management report highlights the key strategies for the management of stormwater quality, and quantity in compliance with authority guidelines.

With reference to SEARs – Concept Proposal for Waterloo South – SSD-93222706, the primary objectives of this report are to:

- Demonstrate compliance with the relevant SEARs advice and planning policies;
- Assess pre- and post-development hydrology to demonstrate no increase in off-site stormwater impacts;
- Provide a stormwater quality treatment strategy consistent with Water Sensitive Urban Design (WSUD) principles;
- Illustrate conceptually, the integration of stormwater infrastructure with site grading and landscape design.
- Demonstrate that the proposed stormwater management strategy is generally in accordance with City of Sydney Interim Floodplain Management Policy and Waterloo South: Design Guide 2022 (Figure 22: Stormwater).
- On-Site Detention (OSD) design intent in accordance with the City of Sydney Drainage Code and Sydney Water Corporation Stormwater Quality Controls
- Stormwater quality design intent in accordance with Sydney DCP 2012.

No upgrades to stormwater infrastructure outside the Waterloo South precinct are proposed. All stormwater works are limited to internal precinct works and tie-in at existing downstream interface points, specifically McEvoy Street (City of Sydney owned) and Cope Street (Sydney Water owned). External networks outside the Waterloo South boundary will remain unchanged.

The stormwater management strategy has been designed to satisfy the objectives as listed above. No additional requirements are proposed.

2. Introduction

This Stormwater Management Report is submitted to the Department of Planning, Housing and Infrastructure (the Department) on behalf of Stockland and NSW Land and Housing Corporation (the Applicant) in support of a concept State Significant Development Application (SSDA) for the redevelopment of the site within the Waterloo Estate (South) Precinct Area, hereby known as "Waterloo South".

In this report reference to "Homes NSW", or "the Applicant" shall also be taken to mean "New South Wales Land and Housing Corporation (LAHC)" who is the registered owner of 93 per cent of land within the Waterloo South Precinct Area. Any reference to "Waterloo South" in this report should be read as the redevelopment of land owned by LAHC and associated public land (such as roads) throughout the Precinct Area.

The concept development is categorised as State Significant Development (SSD) as per Section 26, Schedule 1 of State Environmental Planning Policy Planning Systems 2021 (Planning Systems SEPP) as the project includes housing development carried out by or on behalf of the LAHC, with an estimated development cost (EDC) of more than $30 million.

The concept, in summary, aims to deliver:

- High quality mixed tenure housing in the context of a rapidly transforming area.
- Approximately 3,300 new dwellings, of which a minimum 30% will be social housing, approximately 20% will be affordable housing, and a maximum 50% will be market housing (measured as a percentage of the total residential gross floor area).
- Publicly accessible open space and public realm activation.
- An authentic mixed-use precinct, with housing co-located with non-residential uses, community facilities, essential services, and access to public transport.

The concept SSDA will guide the detailed design of future buildings, open spaces, and the public realm within the Waterloo South site. The concept SSDA seeks development consent for key planning metrics, including maximum building envelopes, building heights, setbacks, vehicular access points and road network, and the distribution of floor area across different land uses and residential tenure types.

A state-assessed rezoning application has also been prepared and submitted concurrently to give effect to this concept SSDA. The state-assessed rezoning application seeks amendments to the Sydney Local Environmental Plan 2012 (SLEP 2012) and the Waterloo South: Design Guide 2022 (2022 Design Guide) to align with the maximum building envelopes sought in this concept SSDA. Notably no additional gross floor area (GFA) or density is sought under the state-assessed rezoning application than is currently permissible on the site under the SLEP 2012.

2.1 SEARs Items

With reference to the SEARs document (SSD-9322-2706), the following items are applicable to the stormwater management strategy of the precinct.

Refer to the **Table 1** for a summary of the SEARs items and WSce responses.

Table 1– Authority SEARs Items

SEARS Request REF: SSD-93222706	Response / Location in Report
Environmental Impact Statement (EIS) Item 10 - Water Management Detail the proposed concept drainage design and servicing infrastructure to be incorporated as part of the development (stormwater and wastewater). Supporting Documentation - Concept Drainage Plans	Refer to Sections 5, 6 and 7 of this report for relevant information to address the Proposed Stormwater Management Strategy, Design Assumptions, and WSUD considerations. Refer to Appendix A for the overall precinct Concept Stormwater Management Plan. Refer to the SEARS Infrastructure Staging Plan Report for the staging of proposed utilities including the stormwater and wastewater.

2.2 Responses to Authority Queries / Requests

This subsection provides detailed responses to the specific queries, comments and requirements raised by City of Sydney. It summarises how the project team has addressed or will address each item through design development, technical assessments, management plans, and ongoing authority coordination. Responses are structured to clearly demonstrate compliance, identify constraints, and outline next steps where additional investigation or approvals are required.

Table 2– City of Sydney advice on Request for SEARs – Concept Proposal for Waterloo South received on 25/09/2025.

City of Sydney Enquiry	Response / Location in Report
City of Sydney **Item 12 - Flooding and stormwater management**	
The flood management strategy and precinct-wide stormwater strategy accompanying the EIS are to include relevant information to address Section 12 of the Design Guide. In particular, the flood management strategy needs to demonstrate compliance with City's Interim Floodplain Management Policy and identify the flood planning levels for each building. This is to ensure the proposed building envelopes respond to and resolve any required flood planning levels, and to inform all subsequent stages of the development.	Refer to Sections 5, 6 and 7 of this report for relevant information to address the Proposed Stormwater Management Strategy, Design Assumptions, and WSUD considerations. Refer to Appendix A for the overall precinct Concept Stormwater Management Plan. Refer to the SEARs Flood Risk Assessment Report undertaken by GRC Hydro for the flood management strategy items.

2.3 The Site

The Waterloo South Precinct Area comprises approximately 123,149m2 across 10 street blocks in the City of Sydney Local Government Area (LGA), generally bounded by Cope, Raglan, George, Wellington, Gibson, Kellick, Pitt and McEvoy Streets.

The Waterloo South site area, excluding any privately owned properties within the Waterloo South Precinct Area, comprises approximately 114,822m2, or just over 93 per cent of the land within the Precinct Area. The legal description of Waterloo South Precinct Area is detailed in Table 3.

Table 3 - Legal Description of Waterloo South

Address	Lot/DP
Lots owned by NSW Land and Housing Corporation (land is subject to both the rezoning and the concept SSDA)	
209-219 Cope Street, Waterloo	Lot 1 DP 217386

Address	Lot/DP
238-246 George Street, Waterloo	Lot 1 DP 225159
229-231 Cope Street Waterloo	Lot 3 DP 10721
6 John Street, Waterloo	Lot 1 DP 533762
97-109 Cooper Street, Waterloo	Lot A DP 105916, Lot B DP 105916, Lot C DP 105916, Lot 14 DP 10721,
248-254 George Street, Waterloo	Lot 2 DP 533678
232 Pitt Street, Waterloo	Lot 11 DP 635663, Lot 10 DP 635663
74-76 Wellington Street, Waterloo	Lot 1 DP 224728
331-337 George Street, Waterloo	Lot 3 DP 533680
247-251 Cope Street, Waterloo	Lot 1 DP 533679
339-341 George Street, Waterloo	Lot 1 DP 77168
250 Pitt Street, Waterloo	Lot 313 DP 606576
Cooper Street, Waterloo	Lot 3 DP 217386
Lots owned by others (land that does not form a part of the concept SSDA)	
221-223 Cope Street, Waterloo	Lot 6 DP 10721, Lot 7 DP 10721, Lot 9 DP 10721, Lot 8 DP 1147179
225-227 Cope Street, Waterloo	Lot 5 DP 10721, Lot 4 DP 10721
233 Cope Street, Waterloo	Lot 12 DP 1099410, Lots 1-41 SP 79210
116 Wellington Street, Waterloo	Lot 10 DP 10721, Lot 11 DP 10721
111 Cooper Street, Waterloo	Lot 15 DP 10721
291 George Street, Waterloo	Lot 10 DP 1238631, Lots 1-20 SP 96906
110 Wellington Street, Waterloo	Lot 101 DP 1044801, Lots 1-58 SP 69476
336 George Street, Waterloo	Lot 3 DP 10686
213-215 Cope Street, Waterloo	Lot 2 DP 217386

2.4 Site and Surrounding Context

The suburb of Waterloo is located with the City of Sydney Local Government Area (LGA) and is located 3km south of Sydney CBD. The site is part of the broader Waterloo Estate, which comprises the northern, central, and southern precincts and accommodates a significant community residing in social housing.

The Waterloo South Precinct Area is predominantly owned by LAHC, however, as outlined in Table 2, the site, the subject of this report, excludes several privately owned lots located within the boundary of the broader Waterloo South precinct outlined in Figure 2. The privately owned lots are currently used for residential, office, light industrial, and infrastructure uses. The LAHC owned sites are currently used almost exclusively for the provision of social housing, with ancillary offices and community facilities. Overall, Waterloo South currently contains a total of 750 social housing dwellings and 120 private dwellings.

As shown in Figure 1, surrounding suburbs include Redfern to the north, Green Square to the south, Alexandria to the west and Zetland to the east. This broader area has been subject to significant change

over the last 10 years with projects such as South Eveleigh, Redfern North Eveleigh Precinct Renewal, Waterloo Metro Quarter and Over Station Development (OSD) all contributing to the changing character of the area.

These broader renewal projects are supported by proximity to a range of public transport services, including Redfern Station, Green Square Station, and Waterloo Metro Station, all of which are within walking distance of Waterloo South.



Figure 1 - Aerial view of the Waterloo Estate and the Waterloo South precinct
Source: Six Maps, modified by Beam Planning



Figure 2 - Waterloo South Project Area
Source: SJB

2.5 Project Vision and Intended Outcomes

The vision for the site is to create a unique and vibrant mixed-tenure housing precinct that supports the needs of the community and delivers much needed housing in response to National and State Government priorities.

The Vision is:

To create a new and unique urban village on the Project Land (Gadigal Land) which: delivers new homes, community places and green spaces with diverse housing choice and amenity; prioritises the health and wellbeing of residents; and offers an authentic sense of place and mixed and more sustainable local and mixed communities.

The proposed redevelopment seeks to respond to this Vision by creating a unique and vibrant neighbourhood that can deliver significant social benefits to residents, visitors, and workers in the Waterloo area and broader City of Sydney LGA. The co-location of community uses with housing and employment will ensure the redevelopment is an integrated, accessible and connected precinct that supports the social needs of community.

2.6 Proposed Concept SSDA

The concept SSDA seeks concept approval in accordance with section 4.22 of the Environmental Planning and Assessment Act 1979 (EP&A Act) for the comprehensive redevelopment of the Waterloo South precinct. The concept development proposal, if approved, will guide the detailed design of future buildings, public open spaces, and the public realm within the Waterloo South precinct. It will seek concept

development consent for key planning metrics for the precinct as generally described in Table 4 (indicative figures).

Table 4 - Key development metrics

Descriptor	Project Details
Project Area	• Waterloo South has a developable site area of 114,822sqm / 11.5ha • The broader Waterloo South Precinct Area, which includes all LAHC owned and privately owned properties and roads within the precinct, has a site area of 123,149sqm / 12.3ha
Project Description	• Maximum building envelopes, including maximum building heights, street-wall heights and setbacks. • Distribution of gross floor area (GFA) across the Waterloo South development blocks. • Indicative allocation of floor space between social, affordable and market housing, as well as non-residential and community uses across the Waterloo South Precinct Area. • Loading, vehicular, pedestrian, and active transport access arrangements. • Public domain upgrades and new public domain and publicly accessible areas. • Indicative subdivision plan, staging plan and delivery sequencing for development. • Approval of the following management plans and strategies to inform future stages of the development: – Updated Design Excellence Strategy – Design with Country Strategy – Preliminary Public Art Strategy – Contamination Strategy – Flood Management Strategy – Stormwater Management and Drainage Strategy – ESD Strategy – Strategies for utilities and service provision including service infrastructure lead-in enabling works – Tree Retention Strategy
Land Uses	**Residential** • Social housing: no less than 30% of residential GFA • Affordable housing: ~20% of residential GFA (balance between the delivery of minimum 30% social housing, and the maximum 50% market housing) • Market housing: no greater than 50% of residential GFA **Non-Residential** • A total of 15,000m2 of GFA, of which at least 5,000m2 of GFA is to be delivered as 'Community Uses' (which can include childcare, health, education or community facilities).

Gross Floor Area	Up to 282,485m^2
Building Heights	Between 2 and 33 storeys
Car Parking	Approximately 1,500 spaces (across all land uses), excluding on-street car parking spaces
Staging/ Phasing	It is expected that the redevelopment will occur in seven (7) stages (inclusive of the delivery of the large park on Block 1), however this staging remains indicative.

3. Abbreviations and Definitions

AEP	Annual Exceedance Probability
AHD	Australian Height Datum
ARI	Average Recurrence Interval
DN	Diameter (mm)
EY	Exceedances per Year
IFD	Intensity-Frequency-Duration
L/s	Litres per second
m/s	Metres per second
MUSIC	Model for Urban Stormwater Improvement Conceptualisation
OSD	On-Site Detention
PSD	Permissible Site Discharge
RCP	Reinforced Concrete Pipe
RWT	Rainwater Reuse Tank
SID	Safety In Design
SSR	Site Storage Requirement
WSC	Water Services Coordinator
WSUD	Water Sensitive Urban Design
DRAINS	A software program for urban stormwater drainage and analysis, developed by the Australian company Watercom.
LiDAR	Light Detection and Ranging
GIS	Geographic Information System
RPS	A global professional services firm. Formerly Rural Planning Services

The Use of Must, Shall & Should:
In accordance with the International Organisation for Standardisation (ISO) Directives, the word "shall" is used to state that a requirement is strictly to be followed in order to conform to a Performance Requirement. Consequently, there can be no deviation from that requirement, other than a specific tolerance.
It is noted that in legislation and specifications it is common to use the word "must" to express a requirement. The word "shall" in this document should be considered as equivalent to "must" in the legislation.

The word "should" introduces a suggestion or recommendation that is not a requirement. It is not necessary that such recommendations or suggestions be followed in order to comply with the Performance Requirement.

4. Existing Site Conditions

The Waterloo South site is located within the City of Sydney (CoS) local government area (LGA), approximately 3.3 km south of the Sydney Central Business District, 0.6 km south-east from Redfern train station, and 1 km west of Moore Park. The site is generally bounded by Raglan Street, George Street, Wellington Street, Gibson Street, Kellick Street, McEvoy Street, and Cope Street, encompassing an approximate gross area of 12.32 hectares.

Refer to **Figure 3** below for an extract of the Waterloo South and the extent of works boundary.



Figure 3 - Waterloo South *Project Area*
Source: SJB

Topography across the western portion of the site is relatively flat to gently undulating, while steep falls can be observed to the eastern portion of the site. Surface levels generally falling from the eastern boundary to the western boundary. The site drains predominantly northward towards the Alexandra Canal via the existing Sydney Water trunk drainage system.

The existing in-ground stormwater network comprises of reinforced concrete (RC), earthen/vitrified clay (VC), and polyvinyl chloride (PVC) pipes of varying diameters. Private stormwater drainage is directed to the inground stormwater network within the road reserve, which ultimately discharges to the downstream stormwater system. Stormwater runoff from road surfaces, open car parks and other impervious areas within the public area are generally captured by kerb inlets and surface inlet pit distributed across the site, with overland flow conveyed to the downstream system by the roadway.

Stormwater runoff is generated by a combination of impervious surfaces, buildings, paved areas, and landscaped areas. Given the age of the infrastructure, several sections of the stormwater network exhibit non-standard grades and capacity limitations when assessed against current design standards. As such, elements of the existing stormwater and surface drainage systems may not fully comply with authority standards however consideration is made to integrate the existing drainage with the proposed as part of managing the overall drainage strategy.

4.1 Existing Topography

The existing site generally slopes steeply from the eastern boundary to the western boundary, with several prominent local high points located outside of site boundary, towards the southeast and the northeast. These elevated crest areas are observed to contribute to localised overland flow paths that convey runoff through the site.

Prominent low points are observed along the southern boundary near McEvoy Street, and towards the western boundary near the intersection of Wellington Street and Cope Street. These observations are consistent with *Figure 22: Stormwater* from the Waterloo South *2022 Design Guide* , which illustrates the overland flow paths and existing low points across the precinct.

Refer **Figure 4** for the extract from the design guide.



Figure 4 - Waterloo Estate South Design Guide November 2022 Figure 22: Stormwater. 'Wellington/Cope St depression, 'George St near McEvoy St depression'

Several trapped low points are evident, particularly near the intersection of George Street near McEvoy Street, where overland flows are observed to converge. Additional trapped low points are also evident along Cope Street between Wellington Street and John Street. The site topography is generally flat and undulating near the western boundary.

Refer to **Figure 5** for an illustration of the observed site topography and major flow path directions.

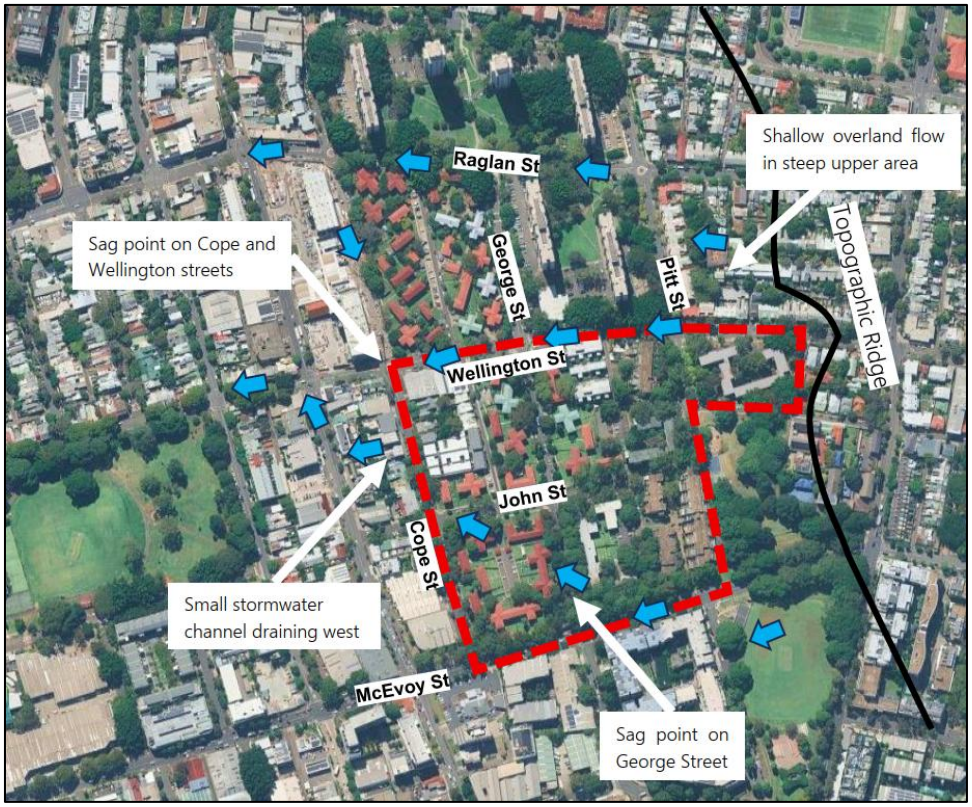


Figure 5 - Overview of the site catchment, overland flow direction, and two sag points (GRC Hydro)

4.2 Existing Stormwater Infrastructure Overview

With reference to the utility survey undertaken by RPS (Ref. SYD-374169, dated 03/07/2025), the existing site is observed to comprise a series of kerb inlet pits for surface flow capture, manholes serving as junctions, sealed lid pits, and surface inlet pits. The in-ground drainage network predominantly consists of reinforced concrete (RC), vitrified clay (VC), and polyvinyl chloride (PVC) pipes, with diameters ranging from approximately 225 mm up to 1050 mm and various sized concrete box culverts.

Stormwater runoff from the site is generally captured by the inlet pits on both sides of the roadway and discharged to the respective low points on Cope Street along the western boundary and McEvoy Street on the southern boundary.

There is generally limited roadway drainage infrastructure servicing the north-eastern portion of the site, particularly along Wellington Street between Gibson Street and Pitt Street. It is understood that the existing stormwater line along Wellington Street is prone to surcharge and surface runoff is directed along Wellington Street roadway.

Several instances have been identified where the existing stormwater network decreases in capacity along the downstream direction. Notable examples include:

- Cope Street (east side) - From the intersection of John Street extending northward, where downstream pipe diameters are observed to reduce.
- George Street - Starting at the corner of John Street, where an existing box culvert transitions to a RC pipe of approximately DN300 before discharging beyond the site boundary.
- Pitt Street – Starting at the intersection of John Street, where the stormwater line transitions from DN300 to DN450 and then reduces again to DN300 prior to discharging outside the site boundary.

These observations suggest inconsistencies in the existing network capacity and potential hydraulic restrictions that may contribute to pit surcharge and overland flow under high intensity rainfall events.

An existing stormwater line drains the northern portion of Raglan Street and conveys flow towards a culvert located at the corner of Raglan Street and Cope Street. It is currently unclear whether this upstream catchment drains to the stormwater line located on the western or eastern side of Cope Street. Additional CCTV investigation and survey are recommended to confirm the reticulation route during detailed design stage and before commencement.

Desktop reviews of the available survey information indicate that the stormwater line on the eastern side of Cope Street ultimately converges with the western line near the intersection of Wellington Street and Cope Street. This junction is reticulated via. a 1100 mm (wide) × 850 mm (deep) box culvert and discharges outside of the site boundary. Additional CCTV investigation and survey are recommended to confirm the reticulation route during detailed design stage and before commencement.

A diagrammatic representation of the inlet pits, pipe sizes, and materials is provided in the **Figure 6.**



Figure 6 - Existing Stormwater Infrastructure (Indicative only)

With reference to the Sydney Water Corporation (SWC) Hydra Diagram and the CoS Stormwater Management Map, the existing stormwater drainage system within the development site is owned and maintained by the CoS. The CoS network discharges downstream into the existing Sydney Water assets located west of Cope Street, which is eventually discharged to the Alexandra Canal. The proposed stormwater system is intended to connect to the CoS stormwater infrastructure at the interface points on Cope Street.

Since McEvoy Street is a TfNSW state road, any proposed stormwater work interfacing at McEvoy Street will require coordination/approval from TfNSW.

Refer to the **Figure 7** below for SWC Hydra Diagram.

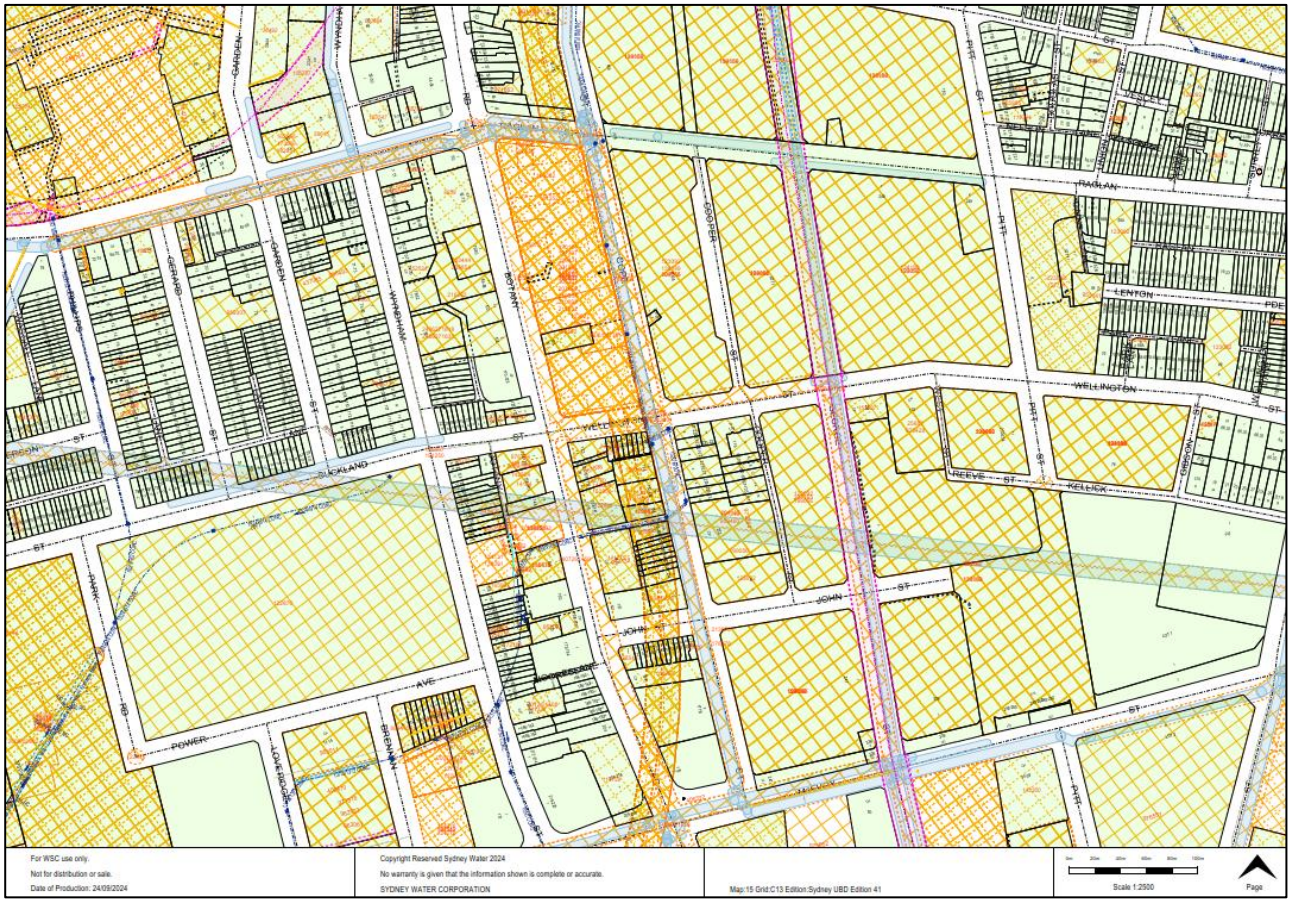


Figure 7 – SWC Hydra Diagram

Refer to the below for CoS Stormwater Management Map (Sheets 017 and 010).

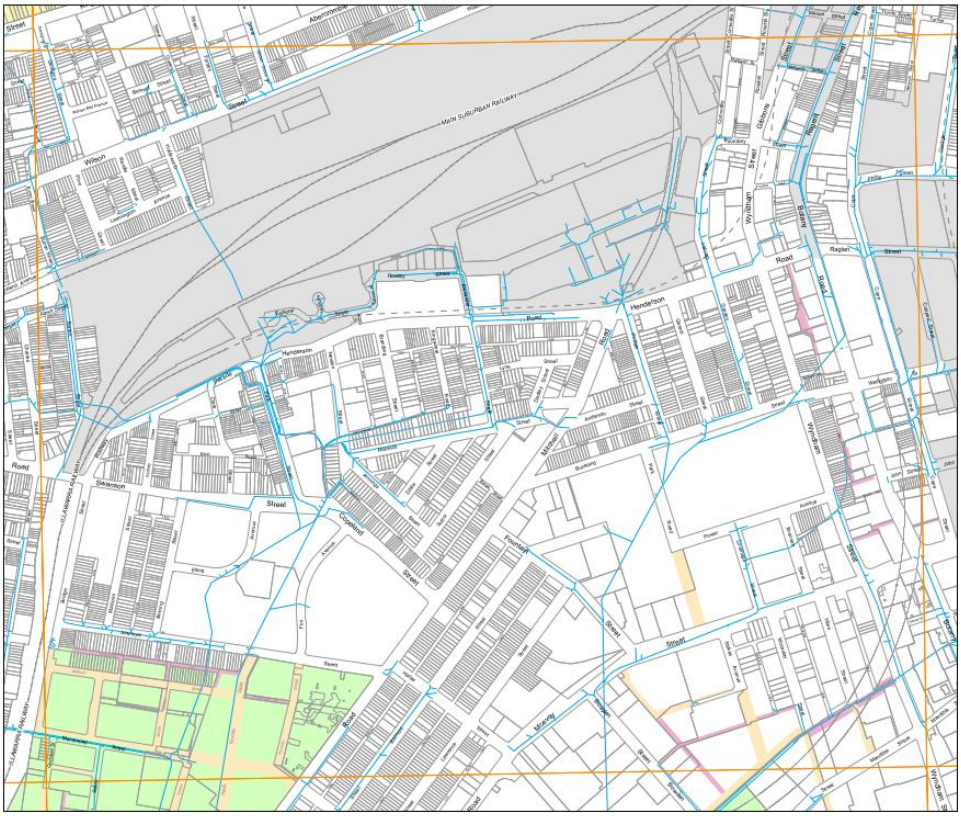


Figure 8 - CoS Stormwater Management Map

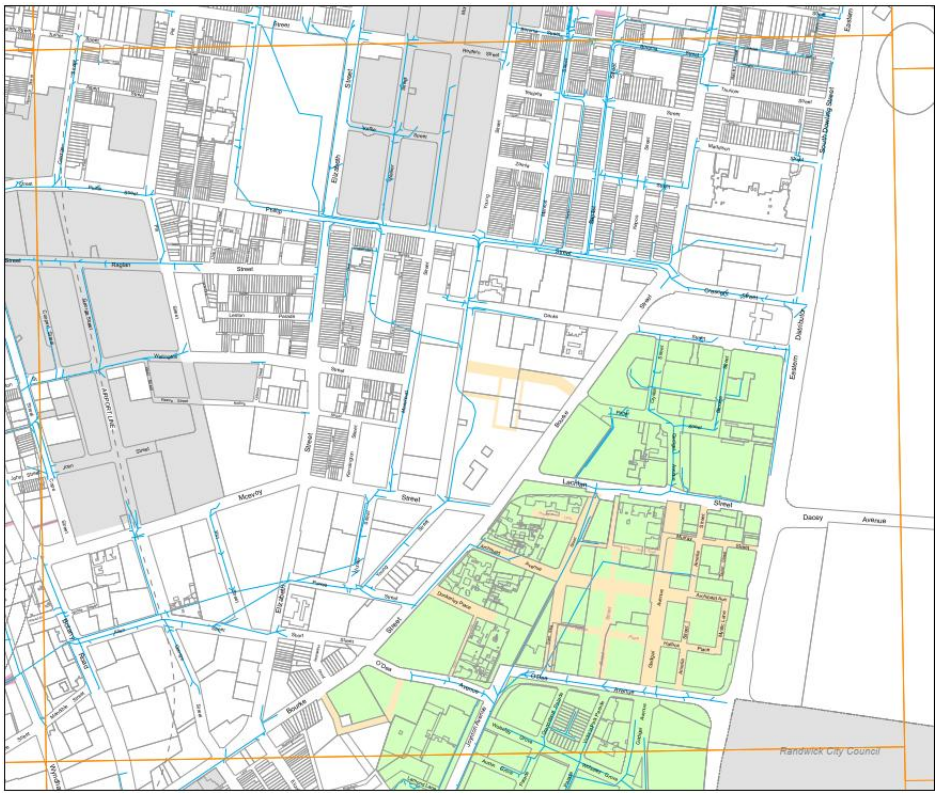


Figure 9 - CoS Stormwater Management Map

4.3 Existing Site Flood Extent

It is understood the site is affected by overland flow flooding. Flooding at the site and surrounding areas has been investigated previously by catchment-wide Council studies.

GRC Hydro as the appointed Flood Consultant for the project have undertaken detailed flood studies and flood impact assessments of the proposed site. Refer to the SEARs Flood Risk Assessment Report undertaken by GRC Hydro for the existing sites flood extents and the proposed flood management strategy items.

4.4 Existing Stormwater Utility Investigation

The following sections outline the utility investigations undertaken to date.

4.4.1 Pit and Pipe Condition assessment

The pit investigation works included (all pits/M.H pits – Private and all respective Authorities (e.g. civil stormwater, water, wastewater, electricity, gas, and telecoms), Surveying all pipe sizes, configurations, and depths. Measurements were directly provided in a QL-A. A dilapidation report for each pit which was comprised of:

- Photograph of the pit from street level, unopened, for location context, annotated with North, West, East, and South labels.
- Photograph of the pit from street level, opened, annotated with North, West, East, and South labels to identify the direction of conduits/services.
- Photograph of all four sides of the pit walls, annotated with direction, clearly showing pipes/conduits and the existence of cable assets within conduits. Asset tags, if existing, must be visible and clear.
- All photographs shall be high-resolution (minimum eight megapixels) and issued alongside the report in JPEG format.
- Diagram of conduit arrangement in each pit, indicating conduit/pipe size, conduit/pipe depth relative to the top of the pit lid, and indication of asset owner, provided to QL-A.
- Further details are available in Ferrycarrig's Pit Condition Report.

4.4.2 Slit Trenching

Slit trenching was undertaken across pavements and roads to assess the position of the underlying infrastructure to detect any issues that may not be visible from the surface.

The investigation works was via a non-destructive digging process to expose and identify the top and sides of all existing underground infrastructure in the vicinity to measure and locate existing services relative to existing property line / kerb offset, depth of cover and clearance to adjacent services and street elements.

Further details are available in Ferrycarrig's Slit Trenching Report.

4.4.3 Ground Penetrating Radar

In-ground services search scanning was conducted to identify the location and condition of existing in-ground services within the precinct boundary and each individual lot boundaries.

The findings of the above detailed on-site investigation that have been undertaken by Ferrycarrig have been collated into individual reports and associated appendices (inspection cards, drawings and photos).

5. Proposed Stormwater Management Strategy

Given the age of the precinct, existing stormwater and surface drainage systems may deviate from current local authority requirements. The challenge with the proposed stormwater management strategy is to integrate the constraints of the existing site, whilst implementing a proposed drainage design to cater to the proposed development works.

The redevelopment plan proposes stormwater infrastructure upgrades, which aims to improve upon the existing stormwater reticulation within the Waterloo South boundary and to ensure no adverse impacts to downstream stormwater networks during the post-development scenarios in accordance with CoS guidelines. No upgrades to stormwater infrastructure outside the Waterloo South precinct are proposed. All stormwater works are limited to internal precinct works and tie-in at existing downstream interface points, specifically McEvoy Street (City of Sydney owned) and Cope Street (Sydney Water owned). External networks outside the Waterloo South boundary will remain unchanged.

Given these considerations, key implications for the stormwater management strategy include:

- Assessing the existing drainage catchments and establish baseline overlands flow run off behaviour and discharge quantity.
- Identification of any existing deficiencies in drainage infrastructure (pipes undersized, blocked, no overland flow route, ageing pits etc.).
- Ensuring post-development flows do not exceed pre-development flows.
- Integrating stormwater quality treatment devices for the proposed blocks in accordance with CoS pollutant reduction targets.
- Ensuring overland flow paths are retained or are improved to manage flood risk during the major 1% AEP storm events.
- With reference to the GRC Hydro Flood Impact and Risk Assessment (December 2025), we understand that a range of climate change sensitivity has been undertaken as part of the flood impact assessment (including year 2050, and year 2100). Refer to GRC hydro Flood Impact and Risk Assessment for details.
- Coordination with the urban design/public domain vision: existing tree retention, green corridors, streetscape design, parkland may become part of stormwater conveyance/treatment strategy.

5.1 Minor Stormwater Drainage System (Pit and Pipe Network)

The proposed civil design and stormwater management strategy, developed in consultation with the overall design team, aims to ensure that the future development does not adversely impact the surrounding precinct or neighbouring properties. The design for minor storm events (20% AEP, 10% AEP, and 5% AEP) has been prepared in accordance with the CoS stormwater management guidelines to prevent any adverse post development effects on adjacent catchments or existing infrastructure.

An indicative/preliminary stormwater layout plan has been developed to illustrate the stormwater reticulation strategy. The proposed stormwater layout is indicative and subject to change during detailed design development. Refer to the **Figure 10** below for the extract of the proposed stormwater layout (indicative only).

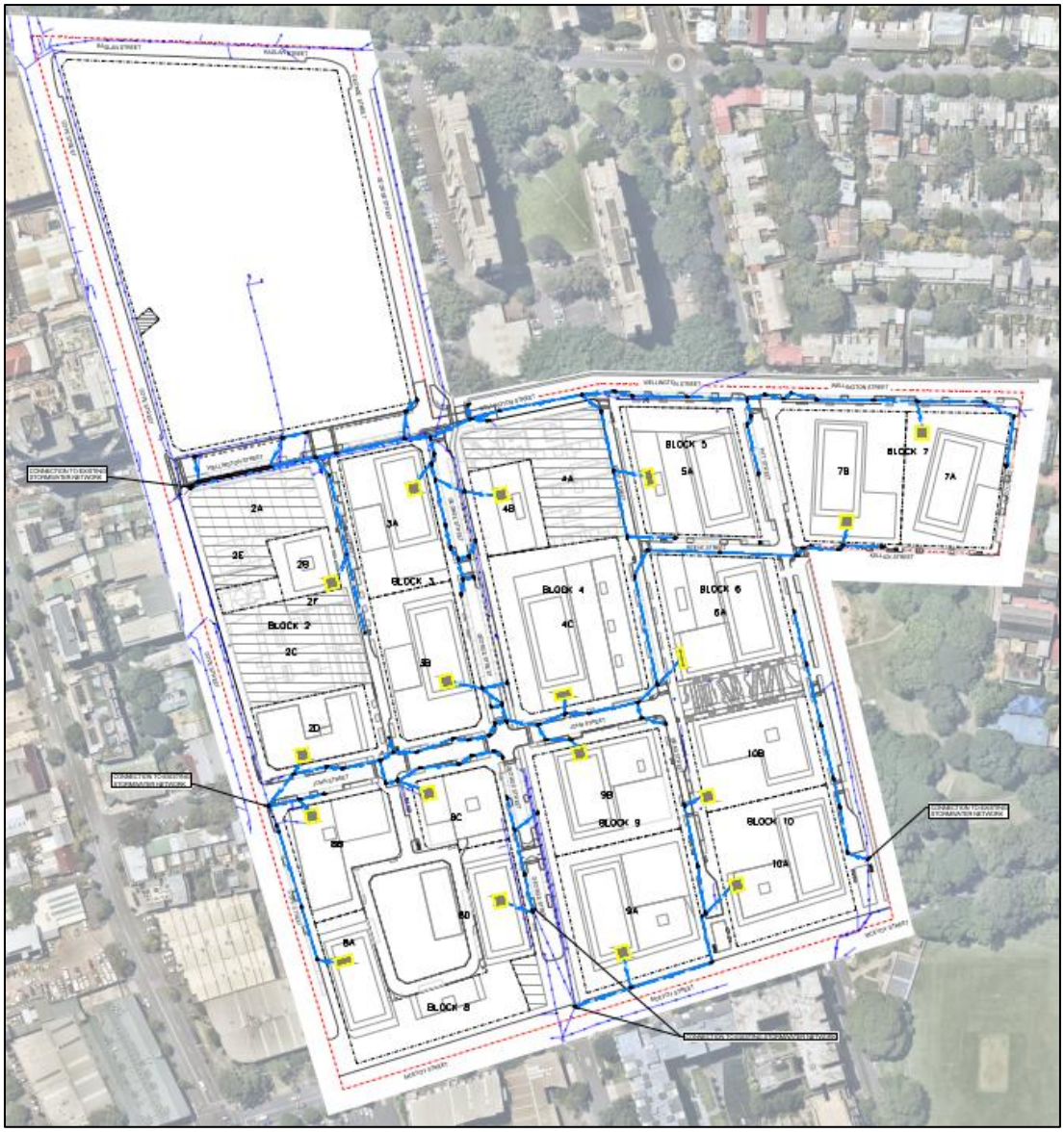


Figure 10 – Stormwater Drainage Layout Plan (Indicative only)

The information provided depicts proposed stormwater pits and main trunk lines only within the public domain areas and indicative OSD locations for the proposed building blocks. OSD will be typically located at low points within the precinct and access available outside of the building for ease of maintenance and system surcharge. Additional drainage will be considered for the internal precincts pending architectural finalisation and consideration by the hydraulic engineers, which will be determined during the detailed design phase.

Refer to Appendix A for the Concept Stormwater Management Plan.

5.2 Proposed Stormwater Catchment Area

The proposed stormwater catchment areas have been analysed in consideration of the proposed internal site extent topography and the existing external site topography.

Refer to **Figure 11** for the proposed stormwater catchment plan.



Figure 11 – Proposed Stormwater Catchment Plan

5.3 Stormwater Drainage System Staging Plan

It is proposed to undertake the construction of the inground stormwater pit and pipe network in accordance with the construction staging plan of the development, inclusive of the design requirements of the City of Sydney Stormwater Drainage Design Guideline and DCP Sections of stormwater infrastructure trunk drainage within the roadway are proposed to be constructed to service the respective building blocks.

Refer to the Infrastructure and Staging Plan Report (PR-SC-5100-SEARS_Infrastructure and Staging Plan) for the concept staging plan for the proposed stormwater network.

5.4 Major Drainage Systems (Overland Flow)

The proposed roadway has been designed to follow the existing roadway alignment in the context of managing overland flow up to the major 1% AEP storm event. The overland flow path and stormwater management strategy have been reviewed in coordination with the project flood consultant to ensure that the development will not result in any adverse post-development impacts to neighbouring or adjoining properties when compared to the pre-development scenarios.

With reference to the GRC Hydro Flood Impact and Risk Assessment (December 2025), we note that a range of climate change sensitivity has been undertaken as part of the flood impact assessment (including year 2050, and year 2100). Refer to GRC hydro Flood Impact and Risk Assessment for details.

Climate change sensitivity testing (2050 and 2100 horizons) is addressed within the GRC Hydro Flood Impact and Risk Assessment and has informed the overland flow and flood behaviour considerations referenced in this report.

The roadway design has been prepared to match the overland flow strategy as outlined in the *Waterloo Estate South Design Guide*. Under the proposed development scenario, site levels will largely maintain the existing topography (with minor tweaks to allow for smooth transitions) and maintaining the overall fall from the eastern boundary towards the western boundary.

The proposed design also maintains the existing low points along the southern boundary near McEvoy Street and towards the western boundary at the intersection of Wellington Street and Cope Street. This will be necessary to tie-in the proposed works with the existing roadway infrastructure at the development boundary. Flood Planning Level (FPL) requirements at these depressions are to be considered in the architectural built form design during detailed design stage.

The stormwater management plan assesses the minor stormwater drainage system (up to the 5% AEP) using DRAINS modelling, while major storm events (1% AEP and climate change scenarios) are addressed through the GRC Hydro Flood Impact and Risk Assessment.

5.5 Water Quantity – On-site Detention (OSD)

Based on the GHD Flood Assessment Report dated Nov 2021 the proposed development requires on site detention (OSD) to control the flowrate of runoff to acceptable levels prior to discharging within the downstream existing stormwater network.

Due to the nature of the development and investigating opportunities of above ground detention systems, it was identified that implementing below ground OSD tanks that service each of the blocks was most suitable as above ground OSD systems would be prohibitive to the development footprint. Typically, the above ground system would require large footprint (when compared with traditional below ground tank) due to the shallow allowable detention depth. Further, the below ground OSD systems approach provides the opportunity for flexibility of staged construction.

To calculate the OSD quantities, a proportional analysis was undertaken with reference to the GHD report (04/11/21) Table 4.2- Sydney Water Corporation Stormwater Quantity Controls.

The Public Domain and roadway catchments do not form part of the OSD catchments and are considered to bypass the system.

Refer **Figure 12** below for summary of the adopted Sydney Water Corporation Stormwater Quantity Controls.

Table 4.2 Sydney Water Corporation Stormwater Quantity Controls

Location	Contributing Catchment Area	Minimum Onsite Detention	Permissible Site Discharge
Waterloo Estate (North, central & South)	*181,000 m²	2,900 m³	5,944 l/s
Factored requirements for Waterloo Estate (South)	123,000 m²	1,970 m³	4,039 l/s

Note *: It is acknowledged that the Waterloo Estate total area is 189,000 m2. This figure was referenced in Sydney Water Corporation correspondence with LAHC (2020) and has been adopted for the purpose of factoring.

Figure 12 – Sydney Water Corporation Stormwater Quantity Controls.

Regarding stormwater onsite detention, a proportional analysis was undertaken using Sydney Water's stormwater quantity controls to distribute the factored OSD volume to the corresponding area of the block.

Preliminary stormwater pit and pipe layouts have been proposed, though further design details, including internal precinct drainage, will be finalised during detailed design in coordination with architectural and hydraulic engineers.

5.6 DRAINS Model Parameters

The stormwater reticulation system has been calculated using a DRAINS model. DRAINS is a stormwater drainage system design and analysis program which performs hydraulic grade line analysis and generates flows that occur in a drainage system for a particular AEP storm event.

The catchment characteristic factor values used in the DRAINS model are nominated below: -

- Soil Type 3.0
- Paved (Impervious) Area Depression Storage 1.0
- Grassed (Pervious) Area Depression Storage 1.0

• Antecedent Moisture Condition	3.2
• Minimum Pit Freeboard	150mm
• Blockage factor (depending on pit type)	In accordance with CoS Guidelines

The rainfall data has been taken from the Bureau of Meteorology Rainfall IFD Data System using local coordinates. We note that a range of climate change sensitivity has been undertaken as part of the flood impact assessment (including year 2050, and year 2100). Refer to GRC hydro Flood Impact and Risk Assessment for details.

5.7 Comparison of Pre-development and Post-development Stormwater Flows

A capacity assessment of the existing stormwater drainage system was undertaken to compare pre-development and post-development flow conditions, with the aim of identifying any potential adverse impacts associated with the proposed development when discharging stormwater to the downstream system. The hydraulic volumes and discharge rates for both the existing and proposed trunk drainage systems have been summarised and presented in a simplified diagrammatic format for ease of comparison.

The full DRAINS model is available for detailed review and comparison upon request.

Refer to the **Figure 13** for the existing stormwater reticulation diagram and discharge locations.

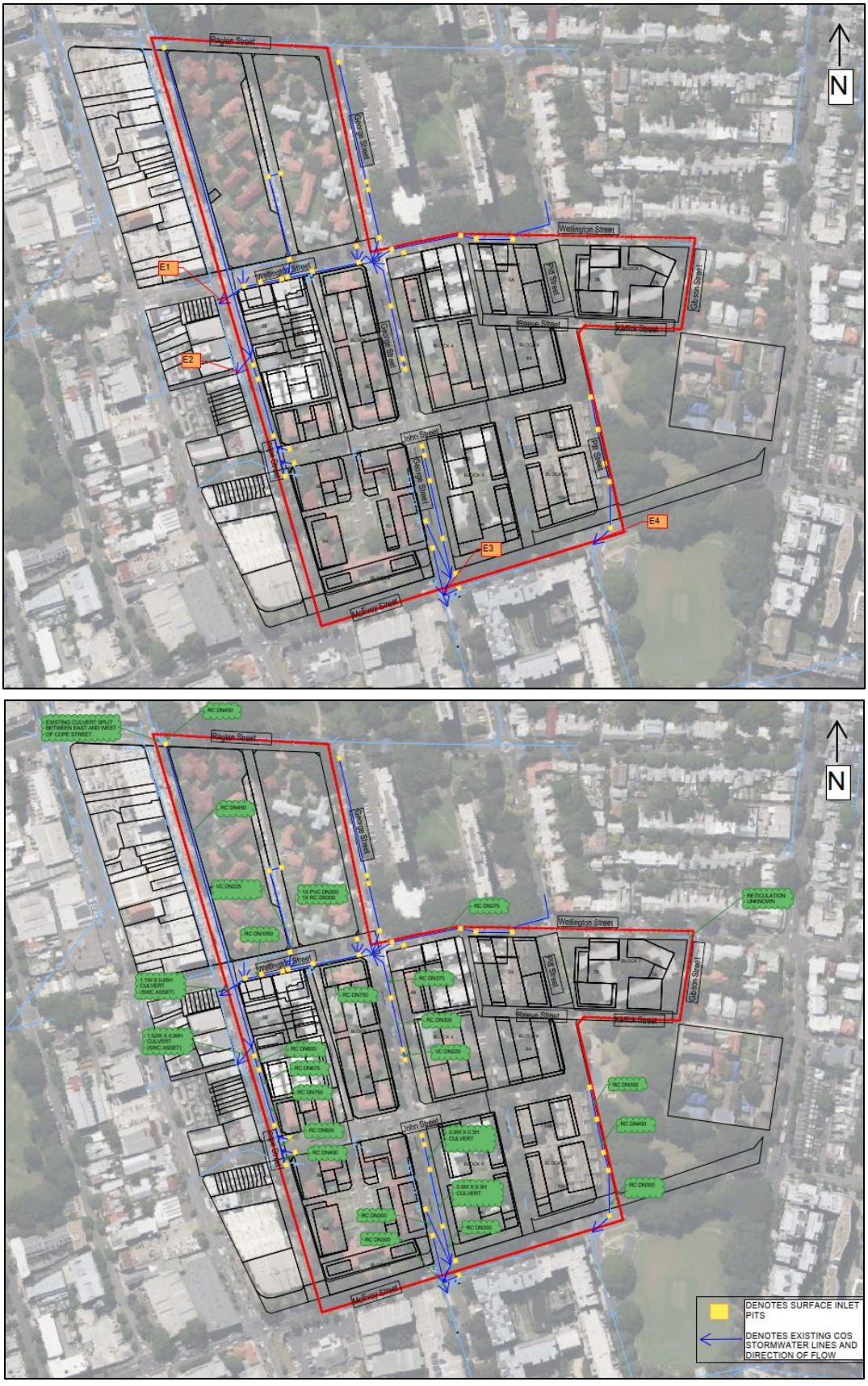


Figure 13 – Existing Stormwater Reticulation Diagram

Refer to the **Figure 14** for the proposed stormwater reticulation diagram and discharge locations.



Figure 14 – Proposed Stormwater Reticulation Diagram

Table 5 to **Table 7** provides a summary of hydraulic capacity comparisons on the stormwater flows during the pre-development and post-development scenarios.

Table 5 – 20% AEP Flows Comparison

Road name and approx. location	Pre-development Scenario Discharge Point	20% AEP Pipe Flow (m3/s)	20% AEP Overflow (m3/s)	Post-development Scenario Discharge Point	20% AEP Pipe Flow (m3/s)	20% AEP Overflow (m3/s)
Intersection of Wellington Street & Cope Street	E1	1.66	3.07	P1	1.62	0.13
Cope Street	E2	0.46	0.46	P2	0.63	0.01
Intersection of George Street and McEvoy Street	E3	0.21	N/A	P3	0.22	N/A
Intersection of Pitt Street and McEvoy Street	E4	0.27	0.12	P4	0.26	0.09

Table 6– 10% AEP Flows Comparison

Road name and approx. location	Pre-development Scenario Discharge Point	10% AEP Pipe Flow (m3/s)	10% AEP Overflow (m3/s)	Post-development Scenario Discharge Point	10% AEP Pipe Flow (m3/s)	10% AEP Overflow (m3/s)
Intersection of Wellington Street & Cope Street	E1	1.75	4.07	P1	1.71	0.18
Cope Street	E2	0.54	0.59	P2	0.70	0.18
Intersection of George Street and McEvoy Street	E3	0.22	N/A	P3	0.23	N/A
Intersection of Pitt Street and McEvoy Street	E4	0.29	0.20	P4	0.28	0.17

Table 7– 5% AEP Flows Comparison

Road name and approx. location	Pre-development Scenario Discharge Point	5% AEP Pipe Flow (m3/s)	5% AEP Overflow (m3/s)	Post-development Scenario Discharge Point	5% AEP Pipe Flow (m3/s)	5% AEP Overflow (m3/s)
Intersection of Wellington Street & Cope Street	E1	1.79	4.89	P1	1.76	0.24

Cope Street	E2	0.59	0.72	P2	0.75	0.41
Intersection of George Street and McEvoy Street	E3	0.23	N/A	P3	0.24	N/A
Intersection of Pitt Street and McEvoy Street	E4	0.3	0.26	P4	0.29	0.23

5.8 Discussion

At the Cope Street discharge point (P2), located mid-way between the intersection of Wellington Street and John Street, the model indicates that pipe flow rates generally increase under the design storm events, while surcharge from existing stormwater pits will be reduced. This result is attributed to the allowance of individual block catchment areas reticulated to the road carriageway via. In-ground drainage lines. This is in contrast to the pre-development scenario, where overland flow is assumed to reach the road-carriageway drainage system, resulting in higher surface inflows to the surface pits, resulting in a higher overflow, where the existing pit capacity is insufficient for the overall catchment.

Specifically at discharge location E3, the 5% AEP pipe flows increase by approximately 0.16 m³/s in the post-development scenario, with a reduction in overflow of 0.31 m³/s. The increase in pipe flow and reduction in overflows can be attributed to the upstream drainage upgrades that intercept and convey surface runoff and site discharge towards the E3 outlet. Under existing conditions, surface runoff from the John Street roadway and associated overland catchments is observed to travel along the roadway and is only captured at the downstream sag point at the John Street & Cope Street intersection.

At this stage, preliminary OSD volumes have been assigned to each block based on a proportional distribution method. It is recommended that these volumes be further refined in consultation with Sydney Water to ensure that post-development discharge is reduced relative to the existing condition and that no adverse impacts occur to downstream assets. This coordination may influence how the overall OSD storage requirement is apportioned across the site.

At the Pitt Street discharge to McEvoy Street (P4), the 5% AEP pipe flow increases marginally (up to 0.005 m³/s), while pit overflow decreases by 0.033 m³/s. The increase in pipe flow is attributed to the proposed drainage system on Pitt Street intercepting upstream external catchment flows that previously bypassed the system under existing conditions. This change is considered negligible in the context of the broader network.

Overflows in the post-development condition continue to drain northwards toward the existing sag point on George Street, with no uncontrolled off-site discharge. The existing stormwater pipe at the McEvoy Street & George Street intersection is a DN300 asset and represents a hydraulic constraint at this outlet. The proposed minimum pipe size in the roadway is DN375, which increases downstream flows; however, the existing DN300 pipe does not appear to be operating at full capacity in terms of the HGL. Pipe flow increases are limited to approximately 0.01 m³/s during the 5% AEP event. Should this increase be deemed unacceptable by the relevant authority, the proposed pipe size can be reduced to match the existing system. However, this approach can result in a NIL improvement to the inundation issues at the sag point on George Street.

The following stormwater upgrades have been proposed as part of the Waterloo Estate South Redevelopment works when compared to the existing scenario:

- Additional kerb inlet pits and inground stormwater pipes on Wellington Street between the intersection of George Street/Wellington Street and Gibson Street/Wellington Street
- OSDs to each block with minimum SSR to detain flows to the downstream stormwater system.
- Additional kerb inlet pits and inground stormwater pipes on Pitt Street extending from the intersection between Pitt Street/Wellington Street and Pitt Street/McEvoy Street
- Additional kerb inlet pits and inground stormwater pipes on West Street and Mead Street, extending from Wellington Street to McEvoy Street. Noting, during the existing scenario, there appears to be minimum presence of inground stormwater drainage system.
- Additional kerb inlet pits and inground stormwater pipes on John Street. Noting, during the existing scenario, there appears to be minimum presence of inground stormwater drainage system.
- Additional kerb inlet pits and inground stormwater pipes on Cooper Street. Noting, during the existing scenario, there appears to be minimum presence of inground stormwater drainage system.

6. Design Assumptions

6.1 Proposed Stormwater Drainage System

The following assumptions have been adopted for the DRAINS hydraulic model to assess the proposed stormwater drainage system at Waterloo South.

- Stormwater pits assumed to be a combination of sag pits and on-grade pits, therefore an intermediate blockage factor of 0.35 has been adopted. Noting sag pit blockage is 0.5 and on grade pit blockage is 0.2 for openings greater than 1m (City of Sydney).
- The proposed stormwater pipe runs are assumed to be min. 1% grade. This will be further reviewed during detailed design as the existing topography of the site and downstream level constraints will influence the grade.
- It is proposed that the existing stormwater line running from the intersection of George Street and Raglan Street to the intersection of Wellington Street and George Street be diverted into the proposed stormwater trunk system along Wellington Street. At this stage, it is not confirmed whether the existing asset is suitable for retention. However, the design intent of ensuring no post-development adverse impacts to the downstream stormwater systems will remain.

No upgrades to stormwater infrastructure outside the Waterloo South precinct are proposed. All stormwater works are limited to internal precinct works and tie-in at existing downstream interface points, specifically McEvoy Street (City of Sydney owned) and Cope Street (Sydney Water owned). External networks outside the Waterloo South boundary will remain unchanged.

6.2 Existing Stormwater Drainage System

The following assumptions have been adopted for the DRAINS hydraulic model to assess the existing stormwater drainage system for the development site.

6.2.1 Data Sources and Basis of Analysis

The following data sources and basis of analysis has been adopted:

- The analysis is based on a desktop review of CoS GIS stormwater maps and the RPS utility survey (Ref. SYD-374169, dated 03/07/2025).
- The utility survey data comprises varying quality levels, with Quality Level A (slit trenching) undertaken at key locations within the Public Domain.
- LIDAR data was used to define external catchment boundaries and confirm surface levels, noting that discrepancies may exist between LIDAR and detailed topographic survey data.

6.2.2 Modelling Assumptions

The following civil surface modelling assumptions have been adopted:

- Existing roadways are generally crowned with two-way crossfalls, and catchment split have been modelled accordingly.
- Roadways with one-way cross-falls have been modelled accordingly.
- All external catchments are assumed to convey runoff via. overland flow paths to existing and proposed stormwater pits, as private drainage connections are not clearly defined at this stage.
- The downstream starting hydraulic grade line (HGL) has been set at the pipe obvert, in line with CoS design guidelines.
- A minimum pipe cover of 600 mm and minimum diameter of 375 mm within roadways have been assumed where utility survey information is unavailable.
- Surveyed 3D utility levels have been adopted as the ILs of stormwater conduits in the model.
- In locations where survey depths and LIDAR vertical alignment conflict, the most reliable surveyed or derived data have been adopted based on engineering judgement.
- Several existing pipes were observed to have negative grades. For modelling purposes, these have been adjusted to a minimum positive grade of 0.5% in the direction of flow.
- Pipes shorter than three times their diameter have been extended to meet this minimum length to account for estimated friction losses in the hydraulic model.

6.2.3 Observed Data Inconsistencies

In some instances, the surveyed utility (assumed invert) levels extend above the LiDAR surface, indicating inconsistencies between the available data. These pipes have been retained in the model but flagged for review.

- Surveyed depths from the RPS data do not always match the provided 3D polyline elevations, potentially due to differences between LIDAR reference surfaces and QL-A survey data.
- At several pits, outlet invert levels appear higher than corresponding inlets; where this occurs, minor adjustments were made (raising inlet ILs or lowering outlet ILs) to maintain hydraulic continuity. This consideration has been noted within the DRAINS model.

6.2.4 Assumed Data Hierarchy and Workflow

The following items have been assumed in the hierarchical order and workflow:

- RPS Utility Survey as the primary data source.
- Open-source LIDAR data for surface level reference.
- Surveyed utility depths have been adopted where utility data quality is uncertain.
- Hand calculations where conflicts exist, adopting the most downstream IL and surveyed pipe length.
- Adjustment of pit ILs where inlet–outlet level discrepancies occur, based on best available data.

6.2.5 Additional Assumptions and Considerations

The following considerations have been assumed:

- The proposed OSD systems for future development blocks are expected to improve PSD performance; however, these have not yet been modelled, pending confirmation from Sydney Water regarding the SSR and PSD for Waterloo Estate South during detailed design stage.
- The proposed overland flow catchments within the DRAINS modelling comparison are assumed to be free-draining and unrestricted.
- It is assumed the existing private lots do not have any existing OSD systems.

6.2.6 Observations on the Existing Stormwater Infrastructure

Surveyed as-built stormwater pipes within the development site are observed to have negative or inadequate grades. This could be due to historical construction practices, ground settlement over time, and the absence of modern first principles during original installation. Many older systems constructed with clay, concrete, or earthenware pipes could be susceptible to joint displacement, cracking, and deformation, leading to reduced hydraulic performance. Additionally, these legacy systems were designed for smaller catchment areas and lower rainfall intensities, meaning their pipe grades, diameters, and alignments do not meet current ARR2019 or WSUD requirements.

It is recommended the above considerations should be confirmed with detailed CCTV of the total stormwater network, where reuse of existing drainage infrastructure is proposed. This is to be undertaken during the detailed design phase and prior to construction commencement.

7. Water Sensitive Urban Design (WSUD)

7.1 Potential Pollutants Generated

In accordance with the Design Guide, City of Sydney's Development Control Plan (DCP) 2012, Section 3.7.3 Stormwater Quality, the WSUD requirements and the achieved reduction percentage are presented in **Table 8** below:-

Table 8: CoS WSUD Stormwater Quality Performance Targets

Pollutant Type	Target Reduction Percentage (%)
Gross pollutants	90
Total Suspended Solids	85
Total Phosphorus	65
Total Nitrogen	45

The proposed stormwater management system of the internal building block lots will be designed to incorporate water quality treatment devices to meet or exceed the WSUD targets set by City of Sydney DCP.

As a preliminary assessment, it is proposed that the site treatment will utilise water quality control products. First level of treatment will consist of Gross Pollutant Traps (GPT), which intercept surface runoff at the pit grates and filter the runoff prior to entering the piped stormwater system. It is proposed that grated stormwater pits on site will be fitted with these GPT mesh baskets. The GPT shall utilise filter bag sufficient in the removal of gross pollutants such as sediment, trash and debris, as well as suspended solids. Refer to **Figure 15** below for an illustration of a typical stormwater pit insert.

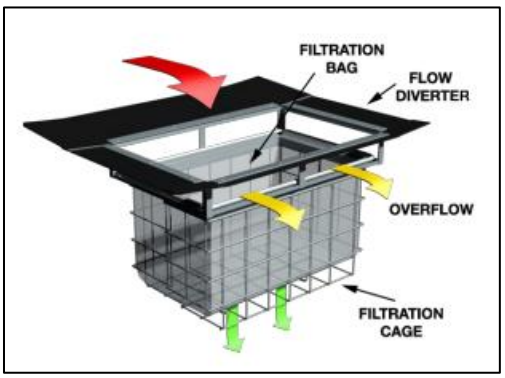


Figure 15 – Typical Pit Insert (Ocean Protect)

The second level of treatment which will be incorporated into the system is a stormwater filtration cartridge system. These cartridges will be located at the low point of the internal site before discharging off-site. There will be several of the cartridges in the pre-cast Vault. The proprietary cartridge system is provided to remove

any remaining suspended sediments, hydrocarbons and nutrients which have entered the stormwater system. Refer to for an illustration of a typical StormFilter.

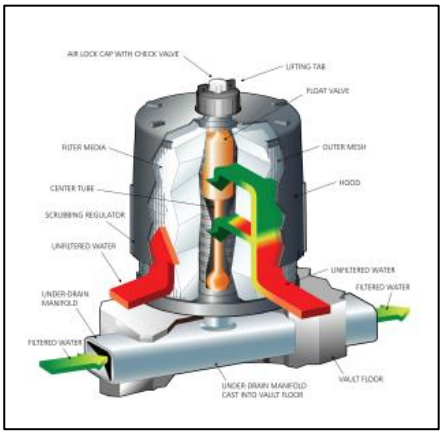


Figure 16 – Typical Stormwater Cartridge (Ocean Protect)

7.2 Rainfall & Evapotranspiration

The CoS prescribed MUSIC-link will be adopted as part of the analysis, which provides climate data to estimate the stormwater quality modelling output. This data is used to simulate hydrological conditions over the long term and aligns with the requirements for WSUD compliance.

7.3 Rainfall Runoff Properties

In accordance with the CoS Draft NSW MUSIC Modelling Guidelines, dated August 2010, the tables below present the rainfall runoff properties which will be utilised in the MUSIC model.

Table 9: Soil Properties for MUSIC Source Nodes

Parameter	Units	Rainfall Period Dates
Impervious Area Parameters		
Rainfall Threshold	mm	1.0 (for grassed areas/paths etc.) 0.3 (for roofs) & 1.5 (for driveways)
Pervious Area Parameters		
Soil Capacity	mm	195
Initial Storage	%	30
Field Capacity	mm	135
Infiltration Capacity Coefficient – a		250
Infiltration Capacity Coefficient – b		1.3
Groundwater Properties		
Initial Depth	mm	10
Daily Recharge Rate	%	60

Daily Baseflow Rate	%	45
Deep Seepage	%	0

Table 10: Stormwater Water Quality Parameters for MUSIC Source Nodes*

Land Use Category		Log_{10}TSS (mg/L)		Log_{10}TP (mg/L)		Log_{10}TN (mg/L)	
		Storm Flow	Base Flow	Storm Flow	Base Flow	Storm Flow	Base Flow
Roofs	Mean	1.30	N/A	-0.89	N/A	0.30	N/A
	Std Dev	0.32	N/A	0.25	N/A	0.19	N/A
Sealed Roads with Pervious Fractions	Mean	2.43	1.20	-0.30	-0.85	0.34	0.11
	Std Dev	0.32	0.17	0.25	0.19	0.19	0.12
Landscaped Areas	Mean	2.15	1.20	-0.60	-0.85	0.30	0.11
	Std Dev	0.32	0.17	0.25	0.19	0.19	0.12

**These values have been taken from Approach 2 in the Draft NSW MUSIC Modelling Guidelines*

8. Results Summary

It can be observed that the overall stormwater discharge for the development site is improved when compared to the existing conditions. The design and allocation of the OSDs is to be coordinated with Sydney Water to ensure that post-development flows are detained to achieve an overall reduction of up the 1% AEP storm event.

Additional CCTV may be undertaken to determine whether any of the existing stormwater assets would be suitable to be rehabilitated and used for the proposed scenario. This is particularly advantageous in consideration of the authority's emphasis on the tree retention strategy, where the challenge exists to propose new stormwater lines at high-impact tree retention locations. At these locations, rehabilitating the existing stormwater lines and adopting them as tie-in points for the proposed stormwater system would be a more appropriate approach, if the overall condition permits.

9. Conclusion

With reference to the SEARs advice as outlined in Section 2 of the report, we note that the following key outcomes of proposed stormwater management system for Waterloo South precinct has been identified and responded to:

- Stormwater is managed generally in accordance with Figure 22 of the Design Guide.
- The proposed stormwater management strategy addresses the requirements of section 12 of the Design Guide.

- The proposed concept stormwater management strategy has been designed with consideration of requirements of Sydney DCP 2012. The stormwater management strategy will be further developed during the detailed design phase.
- A Stormwater quality assessment during the detailed design phase for the building blocks will be prepared in accordance with Sydney DCP 2012
- The proposed stormwater system of the building blocks incorporates OSD requirements in accordance with factored requirements for Waterloo South – OSD Permissible Site Discharge (PSD) and OSD volume.
- Water quality modelling (via MUSIC or equivalent) shall demonstrate compliance with the pollutant reduction targets:
    - 85% reduction in Total Suspended Solids (TSS)
    - 65% reduction in Total Phosphorus (TP)
    - 45% reduction in Total Nitrogen (TN)
    - 90% reduction in Gross Pollutants
- Hydraulic modelling confirms post-development peak flows will not exceed pre-development conditions for all design events up to and including the 5% AEP storm. Refer to GRC flood assessments for a comparison during the 1% AEP storm event and beyond.
- Maintenance and operational requirements will be identified to ensure long-term performance of the stormwater system for tender purposes.

The proposed concept stormwater management approach confirms that the development will not adversely impact the surrounding precinct or downstream catchments in terms of flows generated by the development, while meeting the objectives of the *City of Sydney* and Waterloo South *Design Guide* urban stormwater management.

Appendix A - Concept Stormwater Management Plans



LEGEND

- SITE BOUNDARY
- OUT OF SCOPE AREA
- BLOCK BOUNDARY
- EXISTING STORMWATER MAIN
- EXISTING STORMWATER STRUCTURES
- PROPOSED STORMWATER PITS
- Ø450 PIPE DIAMETER AND DIRECTION OF FLOW
- PROPOSED STORMWATER LINE
- STORMWATER OSD TANK (INDICATIVE LOCATION)

NOTES:

1. THE SERVICE INFRASTRUCTURE SHOWN IS INDICATIVE ONLY AND SUBJECT TO FURTHER ON-SITE INVESTIGATION, UTILITY AUTHORITY REQUIREMENTS, FUTURE PROJECT CONSTRUCTION STAGING, AND DETAILED DESIGN DEVELOPMENT.
2. THE EXTENT OF INFRASTRUCTURE ILLUSTRATED REPRESENTS THE MINIMUM REQUIRED TO BE INSTALLED AND COMMISSIONED FOR THE RESPECTIVE STAGE. NOTE: SOME COMPONENTS OF THE SERVICE INFRASTRUCTURE SHOWN LATER STAGES MAY BE BROUGHT FORWARD.
3. PUBLIC DOMAIN WORKS (EXTERNAL CATCHMENT) DO NOT FORM PART OF THE OSD CATCHMENTS AND ARE CONSIDERED TO BYPASS THE SYSTEM)
4. ALL STORMWATER DISCHARGE LOCATIONS ARE INDICATIVE ONLY. EXISTING STORMWATER CONNECTION LOCATIONS ARE TO BE INVESTIGATED PRIOR TO COMMENCEMENT. ALL CONNECTIONS AND METHODOLOGY ARE TO BE IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S SPECIFICATIONS.
5. THE STORMWATER ARRANGEMENT IS GENERALLY MANAGED IN ACCORDANCE WITH CITY OF SYDNEY A4 – STORMWATER DRAINAGE DESIGN GUIDELINE.
6. ON-SITE DETENTION (OSD) SIZE AND LOCATIONS ARE INDICATIVELY ONLY. OSD TO BE TYPICALLY LOCATED AT LOW POINTS WITHIN THE PRECINCT. THE PROPOSED OSD FRO THE BUILDINGS WILL MEET THE REQUIREMENTS WITH CITY OF SYDNEY A4 – STORMWATER DRAINAGE DESIGN GUIDELINE. REFER TO REPORT PR-CV-5000-SEARS_Stormwater Management Strategy, FOR ADDITIONAL PRELIMINARY DETAILS FOR THE PROPOSED OSD SIZING.
7. PROPOSED STORMWATER PITS ASSUMED TO BE A COMBINATION OF SAG PITS AND ON-GRADE PITS, THEREFORE AN INTERMEDIATE BLOCKAGE FACTOR OF 0.35 HAS BEEN ADOPTED. NOTING SAG PIT BLOCKAGE IS 0.5 AND ONGRADE PIT BLOCKAGE IS 0.2 FOR OPENINGS GREATER THAN 1m (CITY OF SYDNEY)
8. THE SKETCH DEPICT PROPOSED MAIN TRUNK LINES ONLY. ADDITIONAL DRAINAGE WILL NEED TO BE CONSIDERED FOR THE INTERNAL PRECINCTS PENDING ARCHITECTURAL FINALISATION.
9. PIPE SIZES ARE INDICATIVE ONLY. HYDRAULIC ANALYSIS USING DRAINS MODELING IS TO BE UNDERTAKEN DURING DETAILING DESIGN PHASE.
10. FOR STORMWATER QUALITY, A MUSIC MODEL IS REQUIRED TO BE UNDERTAKEN DURING DETAIL DESIGN. THE PROPOSED STORMWATER QUALITY TARGETS WILL MEET THE REQUIREMENTS WITHIN CITY OF SYDNEY A4 – STORMWATER DRAINAGE DESIGN GUIDELINE.
11. THE ROAD/KERB ALIGNMENTS AND TREE LOCATIONS SHOWN ON THIS DRAWING ARE BASED ON THE ASPECT GENERAL ARRANGEMENT PRECINCT PLAN **(DRAWING NO. PR-LS-1000, REVISION G),** AS RECEIVED VIA ACONEX ON **03 FEBRUARY 2026.**

DO NOT SCALE FROM DRAWINGS, CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.

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PLAN SCALE 1:1000 A1 SHEET

REVISION	DESCRIPTION	DATE
P5	ISSUE FOR INFORMATION	12/02/26
P4	ISSUE FOR INFORMATION	05/02/26
P3	ISSUE FOR INFORMATION	22/01/26
P2	ISSUE FOR INFORMATION	16/12/25
P1	ISSUE FOR INFORMATION	01/12/25

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CLIENT: Stockland

PROJECT: WATERLOO ESTATE (SOUTH)

TITLE: STORMWATER LAYOUT PLAN

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
1:1000	S.C	A.S.	J.G.	

DATE	DRAWING No.	REVISION
JANUARY 2026	PR-CV-3000	P5

JOB No.	STATUS
7952001	ISSUE FOR INFORMATION

PRELIMINARY - NOT FOR CONSTRUCTION

SHEET SIZE: A1

Work: V:\7952001\CE Finished_4\1 V:\7952001 SU Existing Stormwater_v1.3\7952001-SU-Sheet Stormw...v1.3\7952001-UT-Proposed Stormwater-OSD_V:\7952001 UT-Proposed Stormwater_V:\7952001-AR-Proposed Civil Design_V:\7952001-AR-Proposed Architectural Building Outline
Plot Date: 11/02/2026@1:23:21 Login Name: sosa Cad File: I:\7952001\Civil Drawings\Civil\Civil 2025\PR-CV-3000 STORMWATER LAYOUT PLAN.dwg

Appendix B – WSUD Typical Maintenance Schedule

OCEAN PROTECT

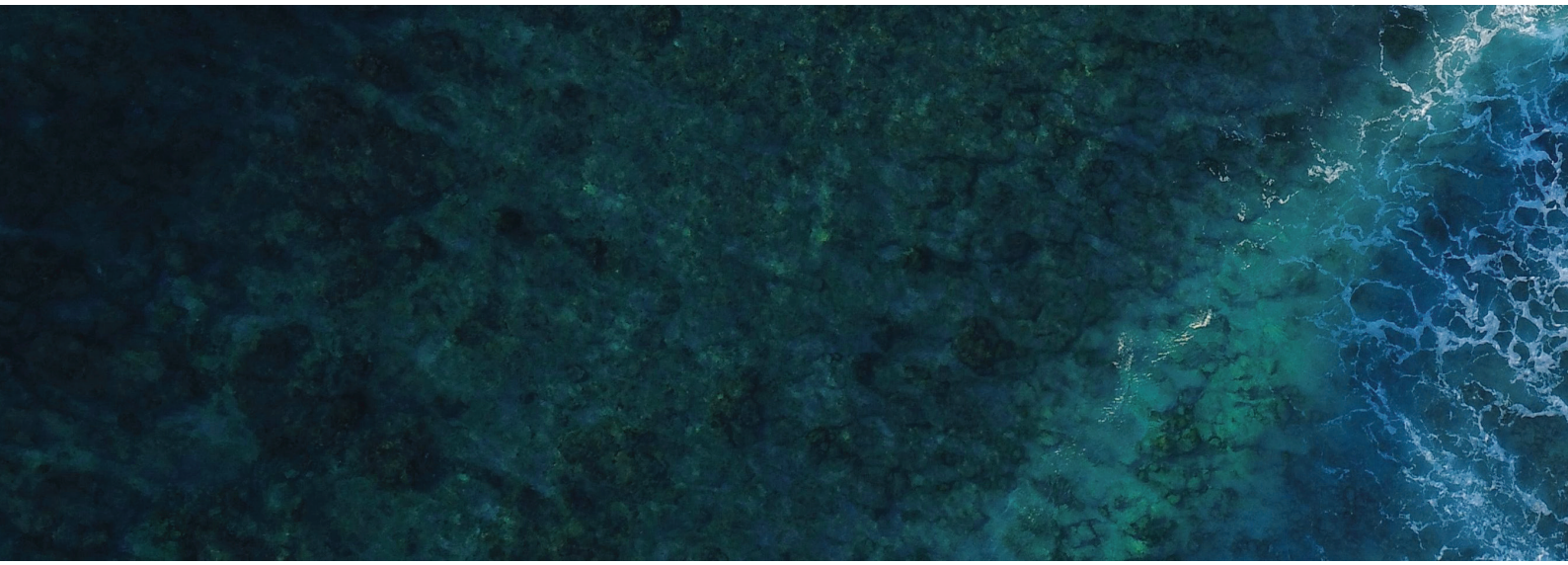
StormFilter®

Operations & Maintenance Manual



Stopping Pollution Entering Waterways

11/24



www.oceanprotect.com.au

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Health and Safety	4
How does it work?	5
Maintenance Procedures	6
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Introduction

The primary purpose of stormwater treatment devices is to capture and prevent pollutants from entering waterways, maintenance is a critical component of ensuring the ongoing effectiveness of this process. The specific requirements and frequency for maintenance depends on the treatment device and pollutant load characteristics of each site. This manual has been designed to provide details on the cleaning and maintenance processes for the StormFilter®, as recommended by us.

The StormFilter® is designed and sized to meet stringent regulatory requirements. It removes the most challenging target pollutants (including total suspended solids, soluble heavy metals, oil, particulate and soluble nutrients) using a variety of media. For more than two decades, StormFilter® has helped clients meet their regulatory needs and, through ongoing product enhancements, the design continues to be refined for ease of use and improved performance.

Why do I need to perform maintenance?

Adhering to the inspection and maintenance schedule of any stormwater treatment device is essential to ensuring that it functions properly throughout its design life.

During each inspection and clean, details of the mass, volume and type of material that has been collected by the device should be recorded. This data will assist with the revision of future management plans and help determine maintenance interval frequency. It is also essential that qualified and experienced personnel carry out all maintenance (including inspections, recording and reporting) in a systematic manner.

Maintenance of your stormwater management system is essential to ensuring ongoing at-source control of stormwater pollution. Maintenance also helps prevent structural failures (e.g. prevents blocked outlets) and aesthetic failures (e.g. debris build up), but most of all ensures the long term effective operation of the StormFilter®.

Health and Safety

Access to a StormFilter® system requires removing access covers/grates, and it is necessary to enter a confined space. Pollutants collected by the StormFilter® will vary depending on the nature of your site. There is potential for these materials to be harmful. For example, sediments may contain heavy metals, carcinogenic substances or objects such as broken glass and syringes. For these reasons, all aspects of maintaining and cleaning your StormFilter® require careful adherence to Occupational Health and Safety (OH&S) guidelines.

It is important to note that the same level of care needs to be taken to ensure the safety of non-work personnel. As a result, it may be necessary to employ traffic/pedestrian control measures when the device is situated in, or near areas with high vehicular/pedestrian activity.

Personnel health and safety

Whilst performing maintenance on the StormFilter®, precautions should be taken in order to minimise (or, if possible, prevent) contact with sediment and other captured pollutants by maintenance personnel. The following personal protective equipment (PPE) is subsequently recommended (but not limited to):

- Puncture resistant gloves
- Steel capped safety boots
- Long sleeve clothing, overalls or similar skin protection
- Eye protection
- High visibility clothing or vest

During maintenance activities, it may be necessary to implement traffic control measures. Ocean Protect recommend that a separate site-specific traffic control plan is implemented as required to meet the relevant governing authority guidelines.

Whilst some aspects of StormFilter® maintenance can be performed from surface level, there will be a need to enter the StormFilter® system (confined space) during a major service. It is recommended that all maintenance personnel evaluate their own needs for confined space entry and compliance with relevant industry regulations and guidelines. Ocean Protect maintenance personnel are fully trained and carry certification for confined space entry applications.

How does it work?

During a storm, runoff percolates through the filtration media and starts filling the cartridge central tube. The air inside the hood is purged through a one-way check valve as the water rises. When water reaches the top of the float, buoyant forces pull the float free and allow filtered water to exit the cartridge.

A siphon is established within each cartridge that draws water uniformly across the full height of the media profile ensuring even distribution of pollutants and prolonged media longevity.

As the storm subsides and the water level in the structure starts falling, a hanging water column remains under the cartridge hood until the water level reaches the scrubbing regulators at the bottom of the hood. Air then rushes through the regulators breaking the siphon and creating air bubbles that agitate the surface of the filter media causing accumulated sediment to settle on the treatment chamber floor. This unique surface-cleaning mechanism helps prevent surface blinding and further extends cartridge life.

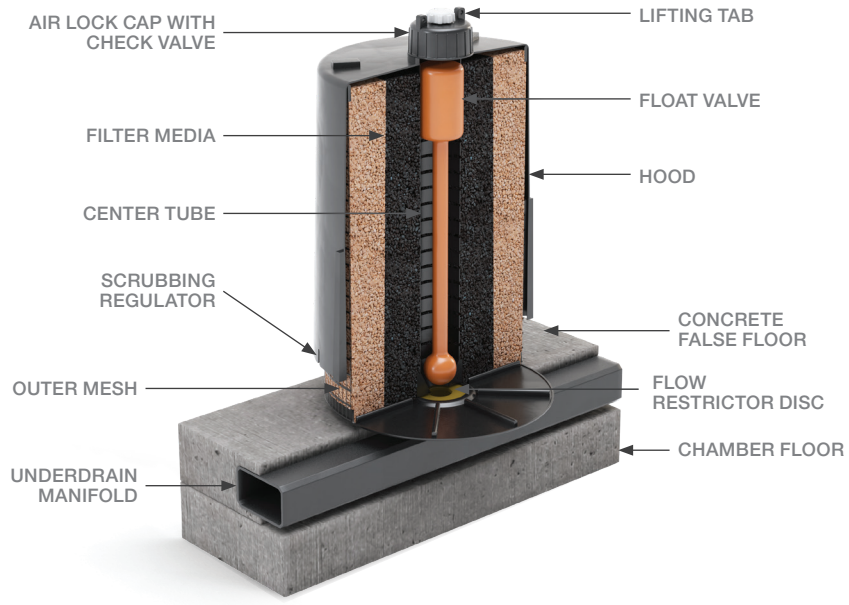


Figure 1: StormFilter® components

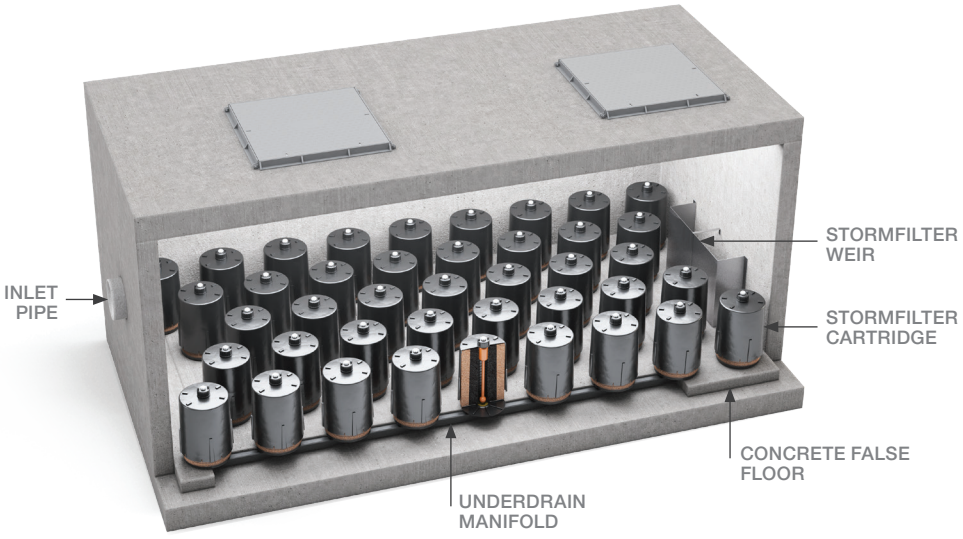


Figure 2: Example conceptual diagram of a StormFilter® system

Maintenance Procedures

To ensure optimal performance, it is advisable that regular maintenance is performed. Typically, the StormFilter® requires an inspection every 6 months with a minor service at 12 months. Additionally, as the StormFilter® cartridges capture pollutants the media will eventually become occluded and require replacement (expected media life is 1-3 years).

Primary types of maintenance

The table below outlines the primary types of maintenance activities that typically take place as part of an ongoing maintenance schedule for the StormFilter®.

Service Type	Description of Typical Activities	Frequency
Inspection	Visual Inspection of cartridges & chamber Remove larger gross pollutants Perform minimal rectification works (if required)	Every 6 Months
Minor Service	Evaluation of cartridges and media Removal of accumulated sediment (if required) Wash-down of StormFilter® chamber (if required)	Every 12 Months
Major Service	Replacement of StormFilter® cartridge media	As required

Maintenance requirements and frequencies are dependent on the pollutant load characteristics of each site. The frequencies provided in this document represent what the manufacturer considers to be best practice to ensure the continuing operation of the device is in line with the original design specification.

Inspection

The purpose of the inspecting the StormFilter® system is to assess the condition of the StormFilter® chamber and cartridges. When inspecting the chamber, particular attention should be taken to ensure all cartridges are firmly connected to the connectors. It is also an optimal opportunity to remove larger gross pollutants and inspect the outlet side of the StormFilter® weir.

Minor Service

This service is designed to ensure the ongoing operational effectiveness of the StormFilter® system, whilst assessing the condition of the cartridge media.

1. Establish a safe working area around the access point(s)
2. Remove access cover(s)
3. Evaluate StormFilter® cartridge media (if exhausted schedule major service within 6 months)
4. Measure and record the level of accumulated sediment in the chamber (if sediment depth is less than 100 mm skip to step 9)
5. Remove StormFilter® cartridges from the chamber
6. Use vacuum unit to removed accumulated sediment and pollutants in the chamber
7. Use high pressure water to clean StormFilter® chamber
8. Re-install StormFilter® cartridges
9. Replace access cover(s)

Major Service (Filter Cartridge Replacement)

For the StormFilter® system a major service is reactionary process based on the outcomes from the minor service, specifically the evaluation of the cartridge media.

Trigger Event	Maintenance Action
Cartridge media is exhausted[1]	Replace StormFilter® cartridge media[2]

[1] Multiple assessment methods are available, contact Ocean Protect for assistance

[2] Replacement filter media and components are available for purchase from Ocean Protect

This service is designed to return the StormFilter® device back to optimal operating performance.

1. Establish a safe working area around the access point(s)
2. Remove access cover(s)
3. By first removing the head cap, remove each individual cartridge hood to allow access to the exhausted media
4. Utilise a vacuum unit to remove exhausted media from each cartridge
5. Use vacuum unit to remove accumulated sediment and pollutants in the chamber
6. Use high pressure water to clean StormFilter® chamber
7. Inspect each empty StormFilter® cartridges for any damage, rectify damage as required
8. Re-fill each cartridge with media in line with project specifications
9. Re-install replenished StormFilter® cartridges
10. Replace access cover(s)

Additional Types of Maintenance

Occasionally, events on site can make it necessary to perform additional maintenance to ensure the continuing performance of the device.

Hazardous Material Spill

If there is a spill event on site, the StormFilter® unit should be inspected and cleaned. Specifically, all captured pollutants and liquids from within the unit should be removed and disposed in accordance with any additional requirements that may relate to the type of spill event. Additionally, it will be necessary to inspect the filter cartridges and assess them for contamination – and, depending on the type of spill event, it may be necessary to replace the filtration media.

Blockages

In the unlikely event that flooding occurs upstream of the StormFilter® system, the following steps should be undertaken to assist in diagnosing the issue and determining the appropriate response.

1. Inspect the upstream diversion structure (if applicable) ensuring that it is free of debris and pollutants
2. Inspect the StormFilter® unit checking the underdrain manifold as well as both the inlet and outlet pipes for obstructions (e.g. pollutant build-up, blockage), which if present, should be removed

Major Storms and Flooding

In addition to the scheduled activities, it is important to inspect the condition of the StormFilter® after a major storm event. The focus is to inspect for damage and abnormally high sediment accumulation that may result from localised erosion. Where necessary damaged components should be replaced and accumulated pollutants should be removed and disposed

.

Disposal of Waste Materials

The accumulated pollutants found in the StormFilter® must be handled and disposed of in a manner that is in accordance with all applicable waste disposal regulations. When scheduling maintenance, consideration must be made for the disposal of solid and liquid wastes. If the filter media has been contaminated with any unusual substance, there may be additional special handling and disposal methods required to comply with relevant government/authority/industry regulations.

Maintenance Services

With over a decade and a half of maintenance experience, Ocean Protect has developed a systematic approach to inspecting, cleaning and maintaining a wide variety of stormwater treatment devices. Our fully trained and professional staff are familiar with the characteristics of each type of system, and the processes required to ensure its optimal performance.

Ocean Protect has several stormwater maintenance service options available to help ensure that your stormwater device functions properly throughout its design life. In the case of StormFilter®, we offer long term pay-as-you-go contracts, pre-paid once off servicing and replacement media for cartridges.

For more information please visit www.oceanprotect.com.au

Ocean Protect supplies and maintains a complete range of filtration, hydrodynamic separation, screening and oil/water separation technologies.

Call 1300 354 722

www.oceanprotect.com.au

Appendix C - RPS Survey

LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

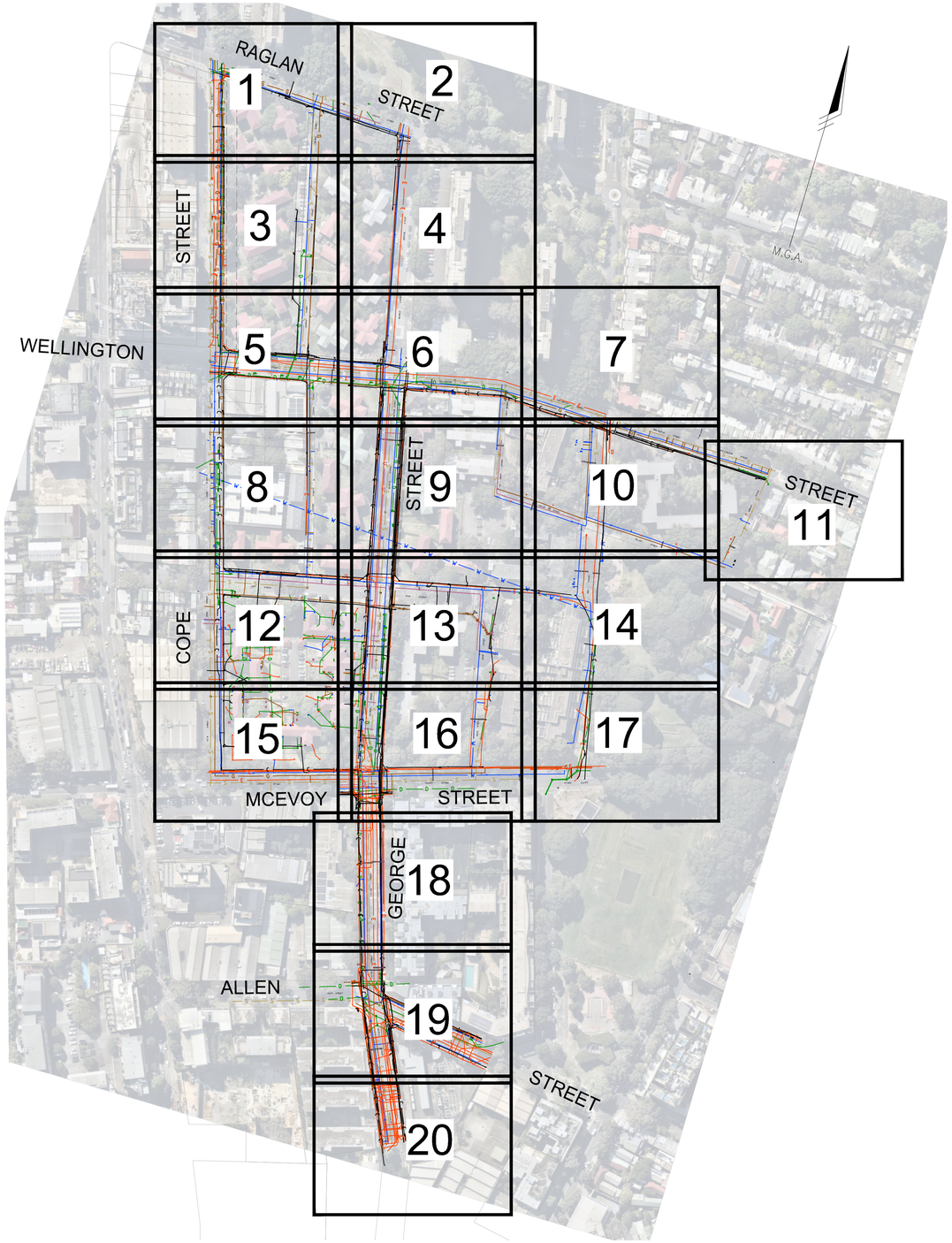
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



SHEET LAYOUT

NOTES:

1. THIS PLAN SHOWS A REPRESENTATION OF A 3D UTILITY MODEL PR-SU1100[P2]_Existing Below Ground Services Overall Plan.DWG. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION.
2. ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/PAPER COPY OF THIS PLAN.
3. COPYRIGHT : © RPS AAP CONSULTING PTY LTD INFORMATION CONTAINED IN THIS DRAWING / FILE IS THE COPYRIGHT OF RPS AAP CONSULTING PTY LTD. COPYING OR USING THIS DATA IN WHOLE OR PART, IN ANY FORMAT, WITHOUT PERMISSION INFRINGES COPYRIGHT.
4. DEPTH AND CLASS OF UTILITIES ARE NOTED ON LINE/POINT.
5. RPS UTILITY LOCATION USE BEFORE YOU DIG AUSTRALIA (BYDA) AS ONE SOURCE OF INFORMATION ONLY WHEN LOCATING UTILITIES.
6. UTILITY INFORMATION AND CONFIGURATION SUPPLIED FROM ASSET OWNERS (BYDA).
7. SINGLE STRINGS MAY REPRESENT MULTIPLE CABLES, CONDUITS OR PIPES.
8. ELECTRICITY CABLES ARE NOT NECESSARILY ENCLOSED IN CONDUITS AND ARE NOT NECESSARILY COVERED WITH MARKERS, TAPE OR OTHER INDICATORS OF THEIR PRESENCE.
9. NOT ALL HOUSE CONNECTIONS HAVE BEEN LOCATED.
10. IT REMAINS THE RESPONSIBILITY OF THE COMPANY AND/OR THE INDIVIDUAL CONDUCTING PHYSICAL WORKS TO ENSURE AN UP-TO-DATE VERSION OF BEFORE YOU DIG AUSTRALIA (BYDA) PLANS IS CONSULTED AND AVAILABLE ON SITE. PHYSICAL WORKS MAY INCLUDE, BUT NOT BE LIMITED TO, EXCAVATING, BORING (HORIZONTAL AND VERTICAL), AND DRILLING.
11. WHERE POSSIBLE IN THE FIELD, DEPTHS FROM GROUND SURFACE TO INDIVIDUAL SERVICES WERE OBTAINED AND RECORDED. THE DEPTH IS SHOWN AS TEXTURAL NOTATION. HENCE, THE ATTRIBUTE "0.58A" INDICATES A DEPTH TO THE UTILITY OF 580mm AT QUALITY LEVEL 'A'.
12. THIS SURVEY IS ON MGA2020 PROJECT COORDINATES AND HEIGHT DATUM.
14. ADDITIONAL UTILITY DEPTHS, DIAMETERS, CONFIGURATIONS AND QUALITY LEVEL DATA HAS BEEN SET TO NON-PRINTABLE ON THIS PLAN FOR CLARITY PURPOSES. REFER TO THE CAD FILE FOR VALUES.
15. THE PROJECT CADASTRAL BOUNDARIES SHOWN ARE SACM LEVEL ACCURACY AND ACCURATE TO 100MM. FORMAL BOUNDARY RE-ESTABLISHMENT HAS NOT BEEN UNDERTAKEN. SURROUNDING BOUNDARIES ARE CADASTRAL DATABASE (DCDB) AND HAVE NOT BEEN VERIFIED BY SURVEY AND ARE FOR CONTEXT PURPOSES ONLY. BOUNDARIES HAVE NOT BEEN PEGGED AS PART OF THIS ENGAGEMENT.

PROJECT CONTROL SCHEDULE

MARK	MGA2020 COORDINATES		AHD71	TYPE	DESCRIPTION
	EASTING	NORTHING	RL		
PM59542	333556.526	6247616.285	15.138	PPMK	FD IN FOOTPATH
SS24976	334116.523	6247294.591	22.028	PSSM	FD IN TOP OF KERB INLET PIT LINTEL
SS53815	333813.114	6247488.45	16.641	PSSM	FD IN GUTTER
SS78042	333940.402	6247095.343	17.329	PSSM	FD IN FOOTPATH
SS97196	333984.252	6247398.896	23.771	PSSM	FD IN GUTTER
SS195240	333845.027	6247353.69	16.863	PSSM	FD IN TOP OF KERB
SS195241	333889.271	6247217.987	16.389	PSSM	FD IN TOP OF KERB
WL01	333767.868	6247480.177	16.202	PBLT	PL IN FOOTPATH
WL02	333688.246	6247462.506	15.281	PBLT	PL IN FOOTPATH
WL03	333792.232	6247568.121	16.715	PBLT	PL IN FOOTPATH
WL04	333888.694	6247523.984	21.234	PBLT	PL IN FOOTPATH
WL05	333840.342	6247428.458	16.442	PBLT	PL IN TOP OF KERB
WL06	333773.96	6247646.65	16.368	PBLT	PL IN FOOTPATH
WL07	333752.656	6247744.832	17.64	PBLT	PL IN FOOTPATH
WL08	333720.771	6247635.332	15.403	PBLT	PL IN PRAM RAMP
WL09	333658.041	6247622.08	14.704	PBLT	PL IN TOP OF KERB
WL10	333861.381	6247682.36	21.562	PBLT	PL IN TOP OF KERB
WL11	333695.464	6247740.381	16.314	PBLT	PL IN FOOTPATH
WL12	333674.072	6247829.248	17.061	PBLT	PL IN FOOTPATH
WL13	333735.06	6247827.892	18.351	PBLT	PL IN FOOTPATH
WL14	333591.886	6247852.612	16.483	PBLT	PL IN FOOTPATH
WL15	333625.608	6247739.979	15.438	PBLT	PL IN FOOTPATH
WL16	333679.929	6247551.279	14.478	PBLT	PL IN FOOTPATH
WL17	333746.794	6247565.732	15.78	PBLT	PL IN FOOTPATH
WL18	333752.094	6247344.277	17.69	PBLT	PL IN FOOTPATH
WL19	333727.425	6247390.936	16.623	PBLT	PL IN FOOTPATH
WL20	333923.164	6247396.947	19.331	PBLT	PL IN FOOTPATH
WL21	333899.98	6247465.467	20.501	PBLT	PL IN FOOTPATH
WL22	333987.378	6247471.881	27.246	PBLT	PL IN TOP OF KERB
WL23	333965.921	6247536.818	30.997	PBLT	PL IN TOP OF KERB
WL24	333961.765	6247596.007	32.184	PBLT	PL IN FOOTPATH
WL25	333879.535	6247600.948	21.976	PBLT	PL IN FOOTPATH
WL26	333945.248	6247661.288	26.349	PBLT	PL IN FOOTPATH
WL27	334053.682	6247593.86	42.143	PBLT	PL IN PRAM RAMP
WL28	334063.5	6247659.494	32.933	PBLT	FD IN PRAM RAMP
WL29	333880.766	6247295.222	17.841	PBLT	PL IN FOOTPATH
WL30	333894.649	6247198.767	16.111	PBLT	PL IN FOOTPATH
WL31	333967.535	6247188.738	17.362	PBLT	PL IN FOOTPATH
WL32	334075.389	6247171.787	19.783	PBLT	PL IN FOOTPATH
WL33	333931.787	6247159.234	17.085	PBLT	PL IN FOOTPATH
WL34	334131.598	6247462.063	30.207	PBLT	PL IN FOOTPATH

NOTE ON AS 5488.1-2022 CLASSIFICATION OF SUBSURFACE UTILITY INVESTIGATION (SUI)

QUALITY LEVELS

THIS STANDARD PROVIDES A FRAMEWORK FOR THE CLASSIFICATION OF SUBSURFACE UTILITY LOCATION AND ATTRIBUTED INFORMATION IN TERMS OF SPECIFIED QUALITY LEVELS. THE OBJECTIVE OF THIS STANDARD IS TO PROVIDE UTILITY OWNERS, OPERATORS AND LOCATORS WITH A FRAMEWORK FOR THE CONSISTENT CLASSIFICATION OF INFORMATION CONCERNING SUBSURFACE UTILITIES. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.

A QUALITY LEVEL DESCRIBES THE AMOUNT AND ACCURACY OF INFORMATION THAT IS COLLECTED OR HELD ON A SUBSURFACE UTILITY.

THERE ARE FOUR QUALITY LEVELS: D, C, B AND A

QUALITY LEVEL D (QL-D) IS THE LOWEST OF THESE FOUR QUALITY LEVELS. THE ATTRIBUTE INFORMATION AND METADATA OF A SUBSURFACE UTILITY CAN BE COMPILED FROM ANY, OR A COMBINATION OF, THE FOLLOWING:

(A) EXISTING RECORDS;
(B) CURSORY SITE INSPECTION;
(C) ANECDOTAL EVIDENCE

QUALITY LEVEL C (QL-C) IS DESCRIBED AS A SURFACE FEATURE CORRELATION OR AN INTERPRETATION OF THE APPROXIMATE LOCATION AND ATTRIBUTES OF A SUBSURFACE UTILITY ASSET USING A COMBINATION OF EXISTING RECORDS (AND/OR ANECDOTAL EVIDENCE) AND A SITE SURVEY OF VISIBLE EVIDENCE. THE MINIMUM REQUIREMENT FOR QUALITY LEVEL C IS RELATIVE SPATIAL POSITION. INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL-BEFORE-YOU-DIG PLANS TO "DRAW" A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. OTHER METHODS USED TO OBTAIN PROOF OF THE EXISTENCE OF AN UNDEFINED ENTITY THAT DO NOT UTILIZE PHYSICAL MEASUREMENT OR TRACING THAT SATISFY QUALITY LEVEL B OR QUALITY LEVEL A SPATIAL TOLERANCES (FOR EXAMPLE: GROUND PENETRATING RADAR; ACOUSTIC; PHOTOGRAPHIC; OTHER.)

QUALITY LEVEL B (QL-B) PROVIDES RELATIVE SUBSURFACE FEATURE LOCATION IN THREE DIMENSIONS. THE MINIMUM REQUIREMENT FOR QUALITY LEVEL B IS RELATIVE SPATIAL POSITION. INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI-TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT.

QUALITY LEVEL A (QL-A) IS THE HIGHEST QUALITY LEVEL AND CONSISTS OF THE POSITIVE IDENTIFICATION OF THE ATTRIBUTE AND LOCATION OF A SUBSURFACE UTILITY AT A POINT TO AN ABSOLUTE SPATIAL POSITION IN THREE DIMENSIONS. IT IS THE ONLY QUALITY LEVEL THAT DEFINES A SUBSURFACE UTILITY AS 'VALIDATED'. WHERE THE WHOLE LINE SEGMENT CANNOT BE VERIFIED BY LINE OF SIGHT, QUALITY LEVEL A SHALL NOT BE ATTRIBUTED TO THE LINE SEGMENT BETWEEN VALIDATED POINTS. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OR SHALLOWEST PART OF THE LOCATED SERVICE. FOR PIT INVERTS AND PIPE INVERTS THE VERTICAL INFORMATION IS TO THE INVERT OF THE PIT OR PIPE.

DISCLAIMER:

THIS SURVEY MODEL INCLUDES INFORMATION DESCRIBING THE LOCATION OF SUBTERRANEAN FEATURES WHICH WERE PURPORTED TO EXIST AT THE TIME OF SURVEY AS SUPPLIED BY BEFORE YOU DIG AUSTRALIA.

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

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

REVISIONS

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE

HORIZ. SCALE: 1:2000 @ A1
COORDINATES: MGA 2020
ORIGIN: PM59542

VERT. SCALE: @ A1
DATUM: AHD
ORIGIN: PM59542

40 20 0 40 80 120
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES
EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES OVERALL PLAN WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No PR-SU1100

JOB No SYD-374169

ISSUE P3

SIZE A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

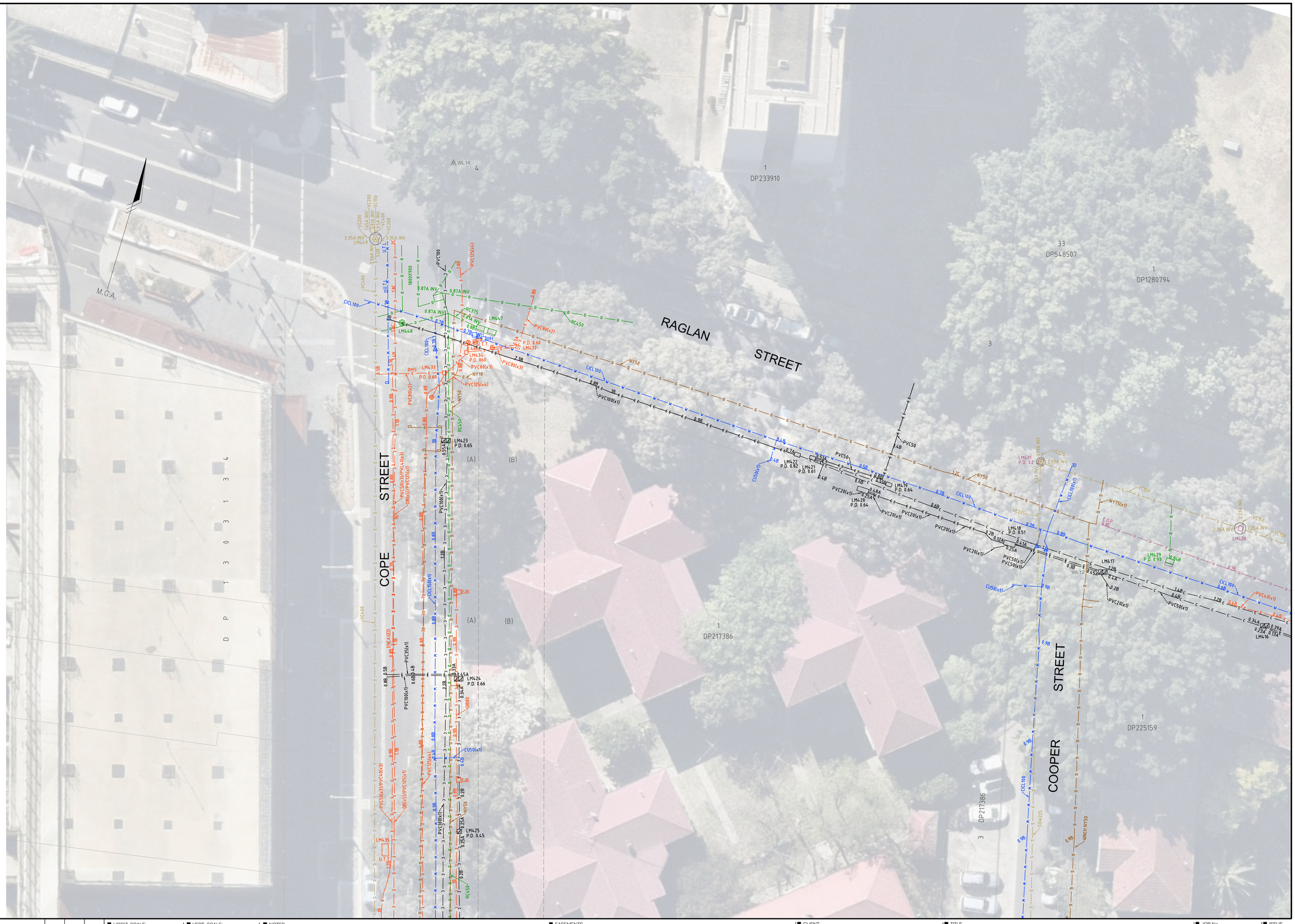
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
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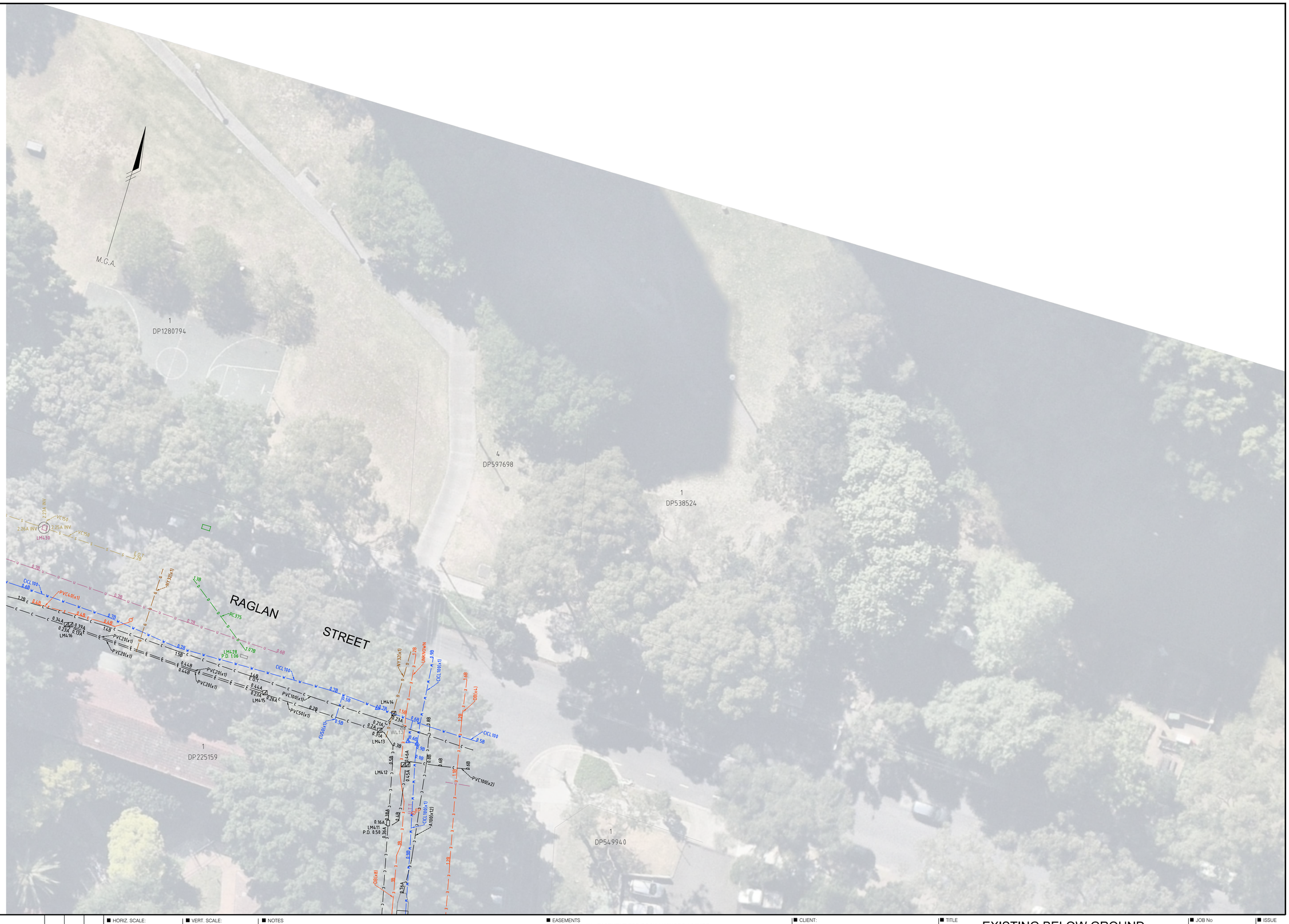
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REVISIONS					
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

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- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 03.07.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 2 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1102

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
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4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

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SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
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CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 3 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1103

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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- LINE-MAJOR TRANSMISSION

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SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE

DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 03.07.2025
DATE APPROVED: 11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 4 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No PR-SU1104

JOB No SYD-374169

ISSUE P3

SIZE A1

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- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY

REVISIONS					
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 5 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1105

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
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- UNIDENTIFIED SERVICE
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SGW	SALT GLAZED WARE
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■ HORIZ. SCALE: 1:200 @ A1
■ VERT. SCALE: @ A1
■ COORDINATES: MGA 2020
■ DATUM: AHD
■ ORIGIN: PM59542
■ ORIGIN: PM59542

4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

■ NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

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■ EASEMENTS

(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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(G) EASEMENT FOR GAS MAIN

■ CLIENT: FERRYCARRIG / Stockland

■ SURVEY: RPS
■ DRAWN: LMB
■ CHECKED: TC
■ APPROVED: GE

DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 03.07.2025
DATE APPROVED: 11.02.2025

■ TITLE

EXISTING BELOW GROUND SERVICES PLAN SHEET 6 WATERLOO ESTATE RENEWEL (SOUTH)

■ DRAWING No PR-SU1106

■ JOB No SYD-374169

■ ISSUE P3

■ SIZE A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
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- WATER MAIN

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CULTURAL
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- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
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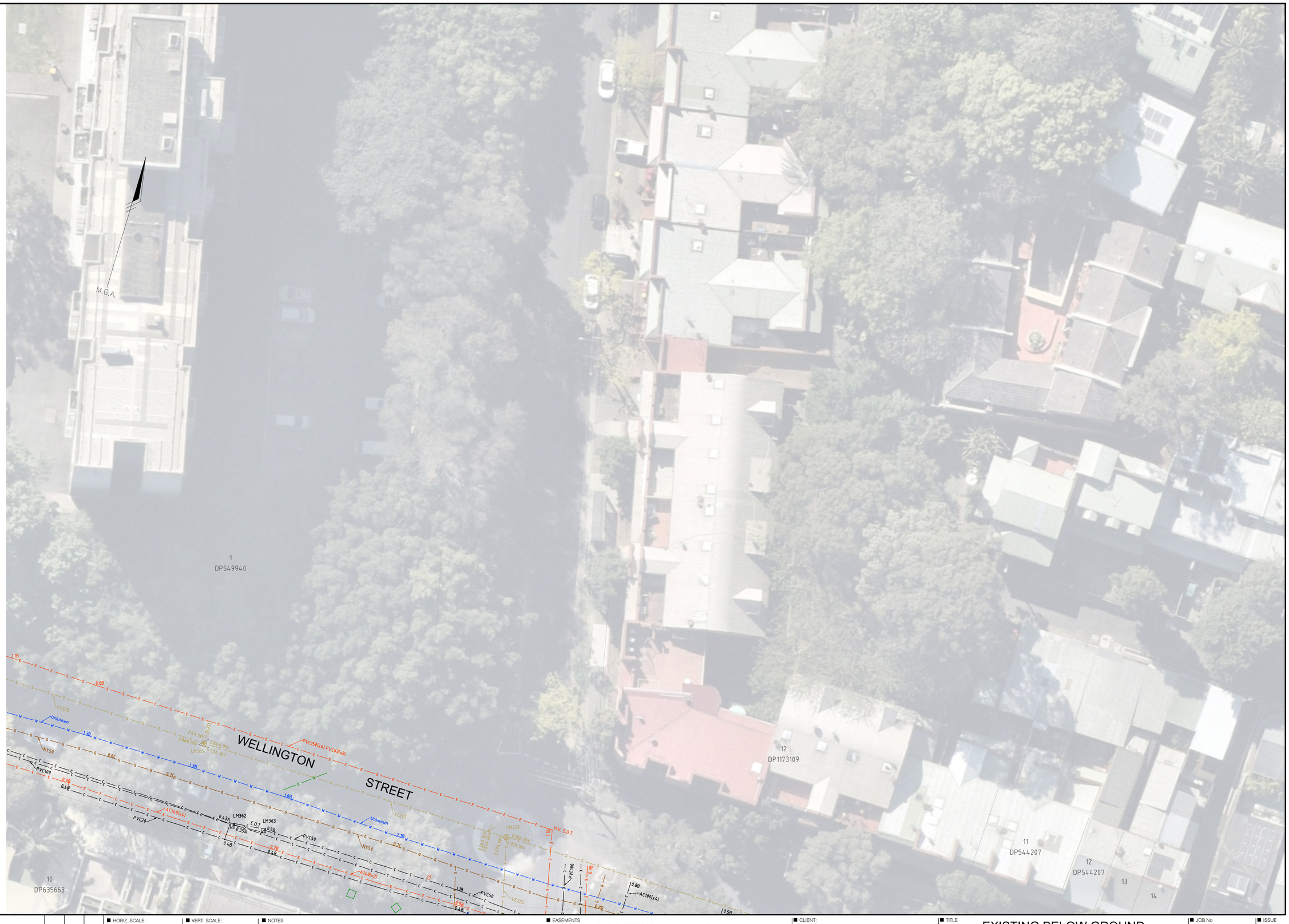
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

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MATERIALS

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CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
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PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



REVISIONS					
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 7 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1107

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
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- TELEPHONE POLE
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- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
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- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
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- FIRE HYDRANT
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- STOP VALVE
- TAP
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- WATER MAIN

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CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
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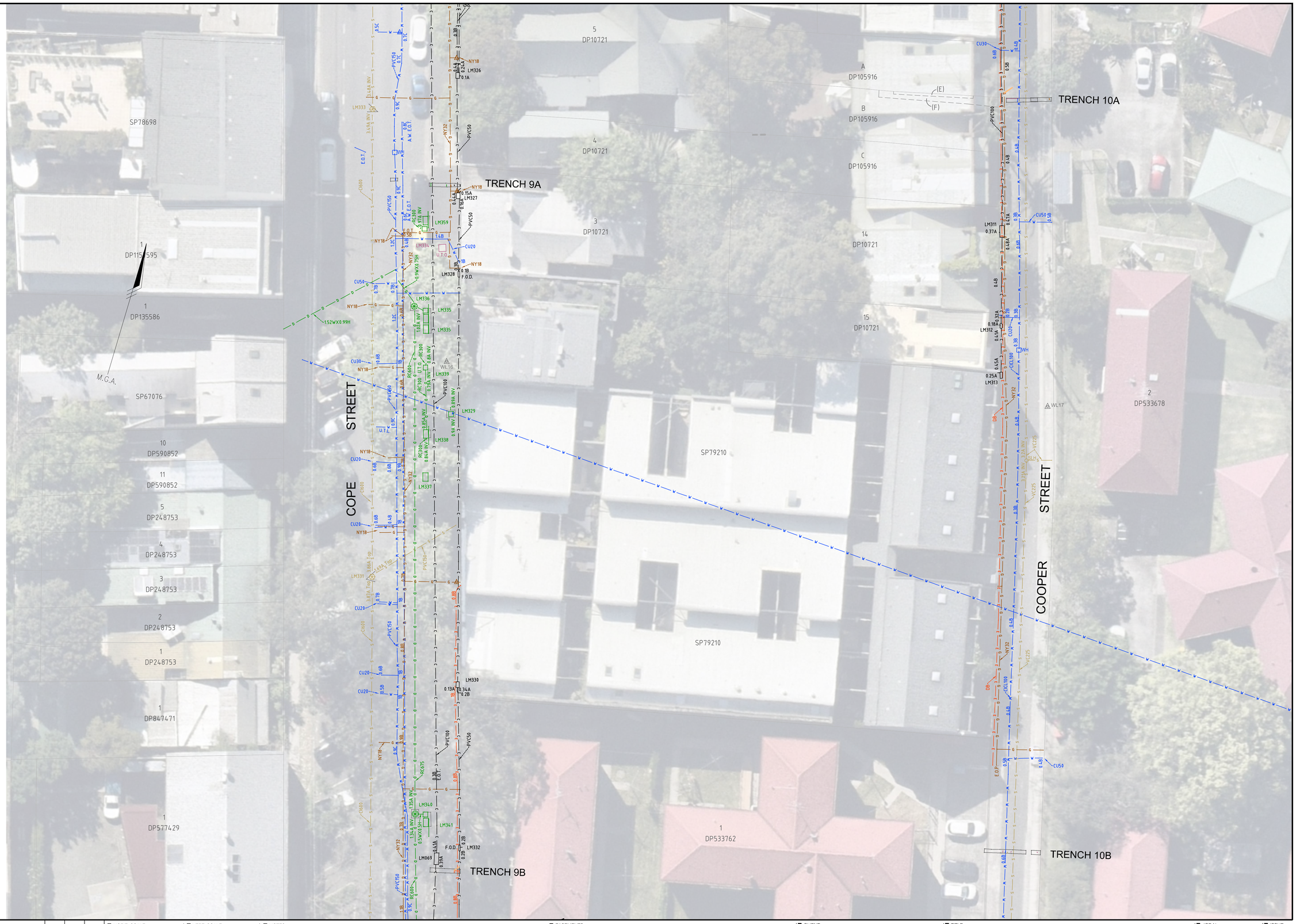
MISCELLANEOUS
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4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

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CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
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APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 8 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1108

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

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- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

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- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



REVISIONS

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS	DATE OF SURVEY: NOV 2024
DRAWN: LMB	DATE OF PLAN: 11.02.2025
CHECKED: TC	DATE LAST SAVED: 03.07.2025
APPROVED: GE	DATE APPROVED: 11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 9 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1109

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
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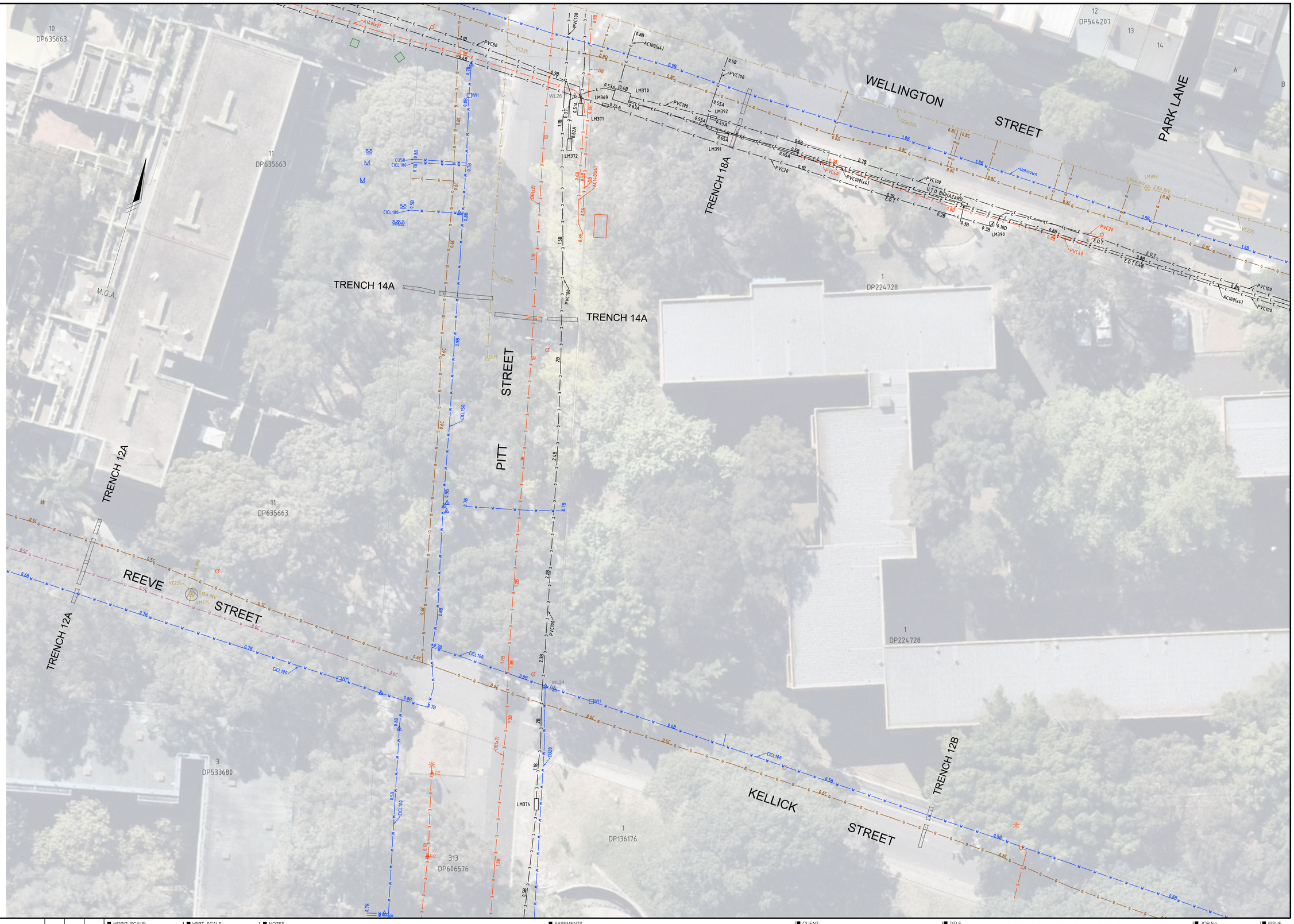
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
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ABBREVIATIONS

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UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

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CI	CAST IRON
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GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
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No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

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VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS

(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
(B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
(C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
(D) CROSS EASEMENTS
(E) EASEMENT FOR OVERHANG 1 FT WIDE
(F) RIGHT OF WAY
(G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 10 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1110

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
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- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

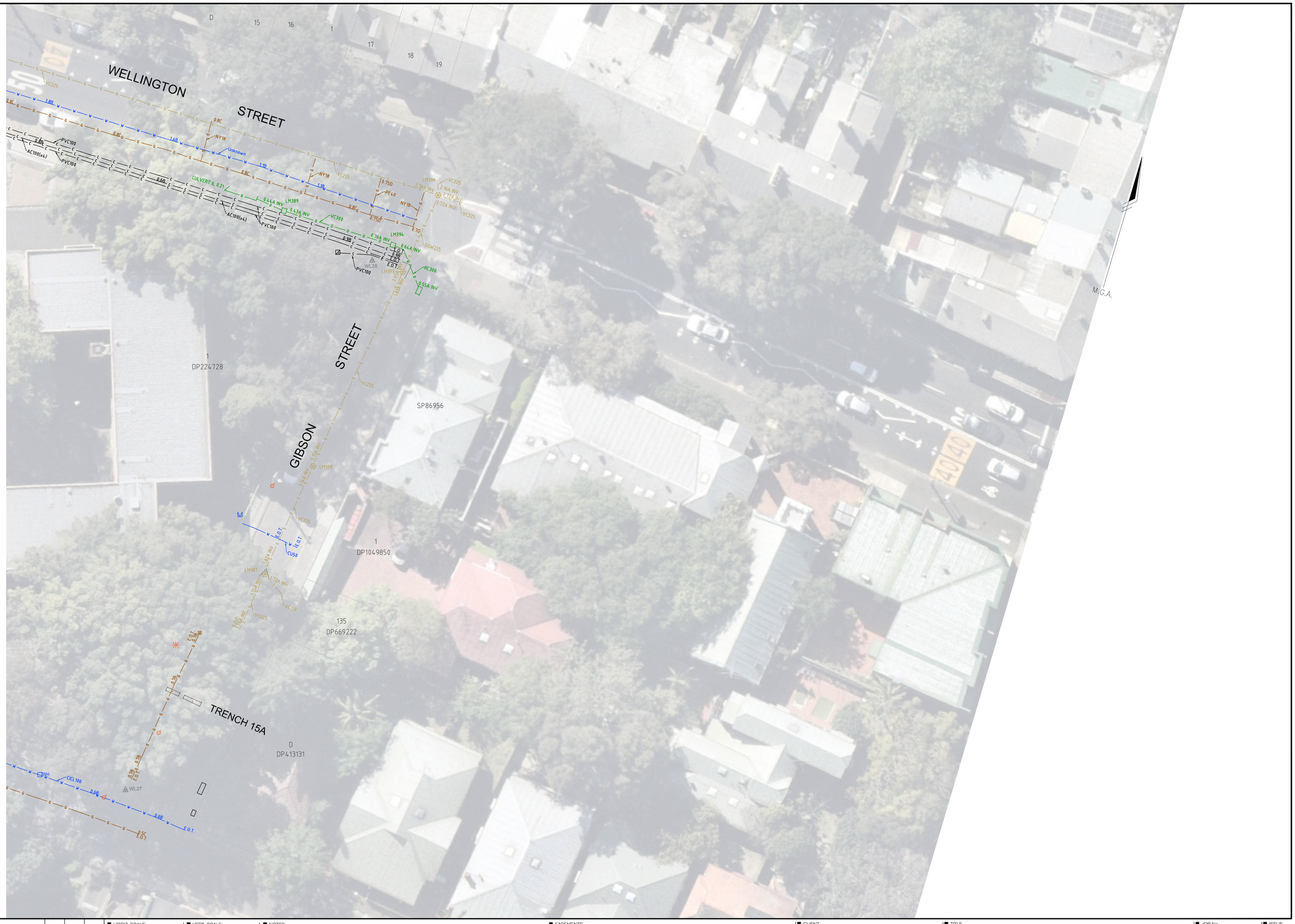
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

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EOP	END OF PIPE
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EOS	END OF SCOPE
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RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
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FOW	FULL OF WATER
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UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



REVISIONS						
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG, Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 11 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1111

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
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COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
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- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
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- MANHOLE COVER
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- HYDRANT
- METER
- STOP VALVE
- TAP
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- SIGN POST
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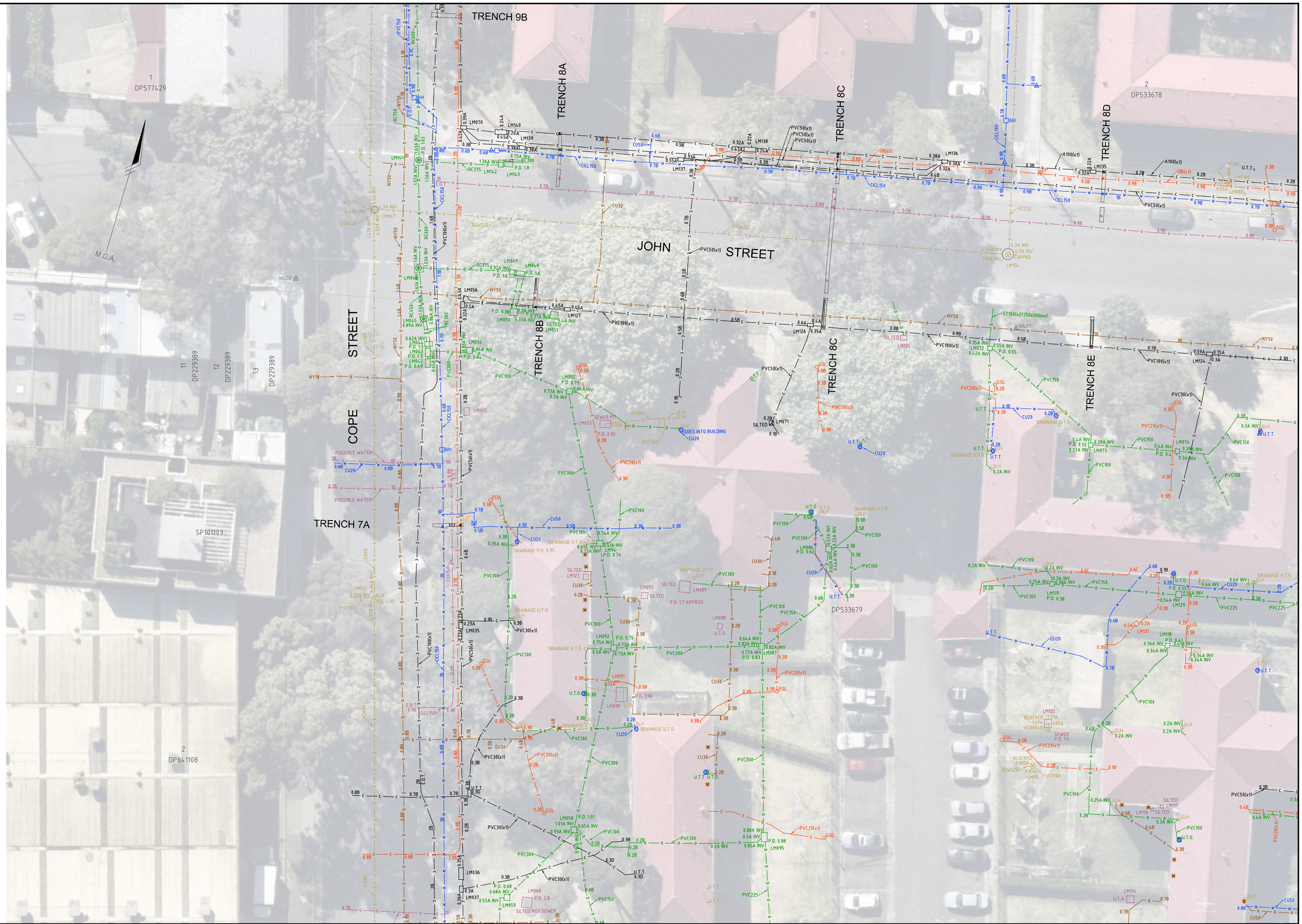
MISCELLANEOUS
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4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

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- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS	DATE OF SURVEY: NOV 2024
DRAWN: LMB	DATE OF PLAN: 11.02.2025
CHECKED: TC	DATE LAST SAVED: 03.07.2025
APPROVED: GE	DATE APPROVED: 11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 12 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1112

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
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- TRAFFIC SIGNAL DETECTOR

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- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY

TRENCH 11B
TRENCH 8G
TRENCH 8F
TRENCH JS01
TRENCH 8H
TRENCH JS02
TRENCH JS05
TRENCH JS04
TRENCH JS03
TRENCH 1A
JOHN STREET
GEORGE STREET
MEAD STREET
DP533678
DP533680
DP77168
DP606576
M.G.A.

REVISIONS					
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	03.07.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 13 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1113

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
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- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
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WATER
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- HYDRANT
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- INLET TO SUMP
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- SUBSOIL DRAIN FLUSH POINT
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- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

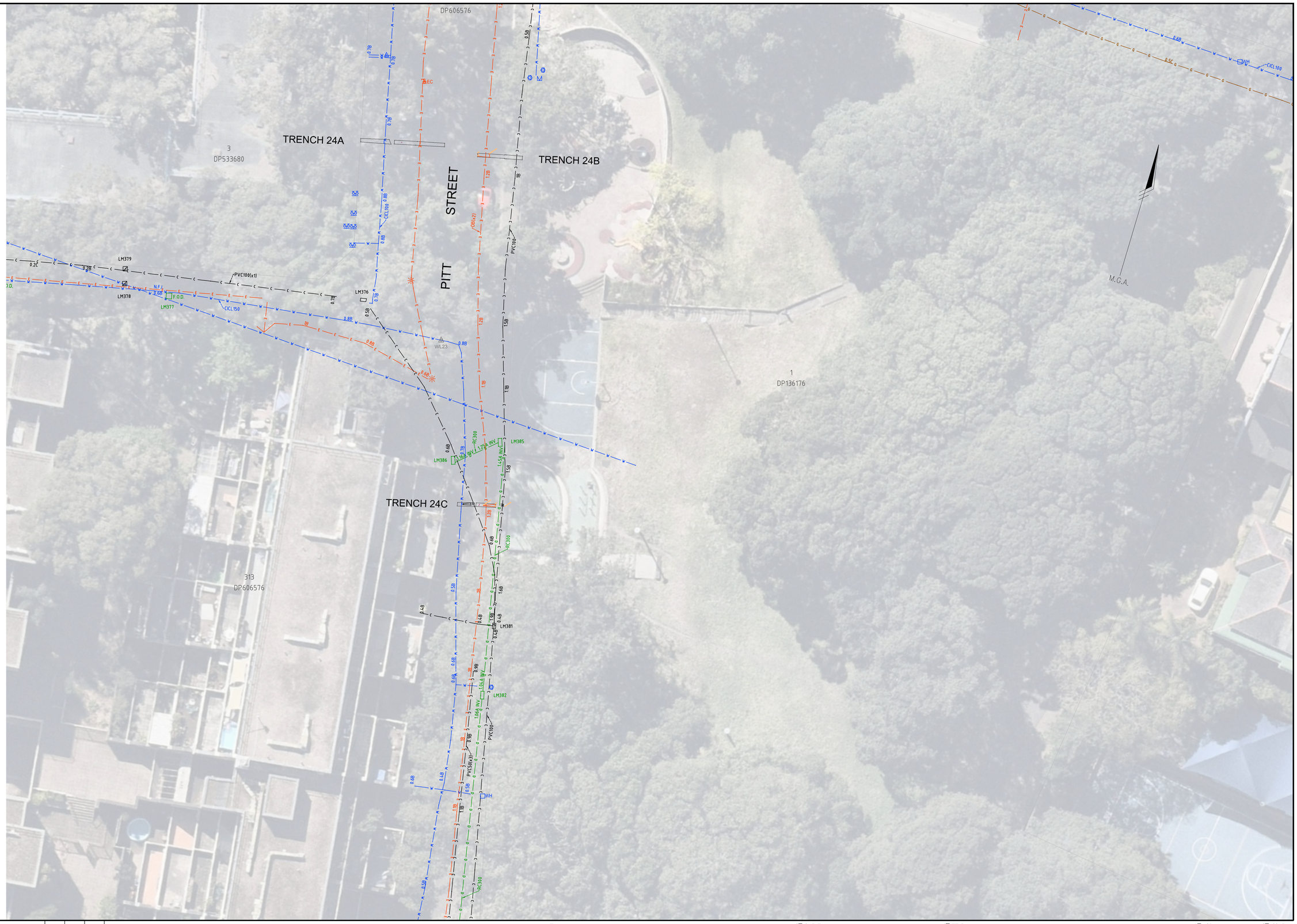
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



REVISIONS						
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542

4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE

DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 03.07.2025
DATE APPROVED: 11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 14 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1114

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
- PIT CHAMBER

ABBREVIATIONS

IL	INVERT LEVEL
EOP	END OF PIPE
EOT	END OF TRACE
EOL	END OF LINE
EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
UTL	UNABLE TO LOCATE
NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
CONC	CONCRETE
CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

REVISIONS

■ HORIZ. SCALE: 1:200 @ A1

■ VERT. SCALE: @ A1

■ COORDINATES: MGA 2020

■ DATUM: AHD

■ ORIGIN: PM59542

■ ORIGIN: PM59542

4 2 0 4 8 12

SCALE IN METRES AT ORIGINAL REDUCTION RATIO

■ NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

■ EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
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- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

■ CLIENT: FERRYCARRIG / Stockland

■ SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
■ DRAWN:	LMB	DATE OF PLAN:	11.02.2025
■ CHECKED:	TC	DATE LAST SAVED:	03.07.2025
■ APPROVED:	GE	DATE APPROVED:	11.02.2025

■ TITLE

EXISTING BELOW GROUND SERVICES PLAN SHEET 15 WATERLOO ESTATE RENEWEL (SOUTH)

■ DRAWING No PR-SU1115

■ JOB No SYD-374169

■ ISSUE P3

■ SIZE A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
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- OPTICAL FIBRE JUNCTION BOX
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- TELEPHONE BOX POINT
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- PIPELINE MARKER - HIGH PRESSURE
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- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

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- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
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CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

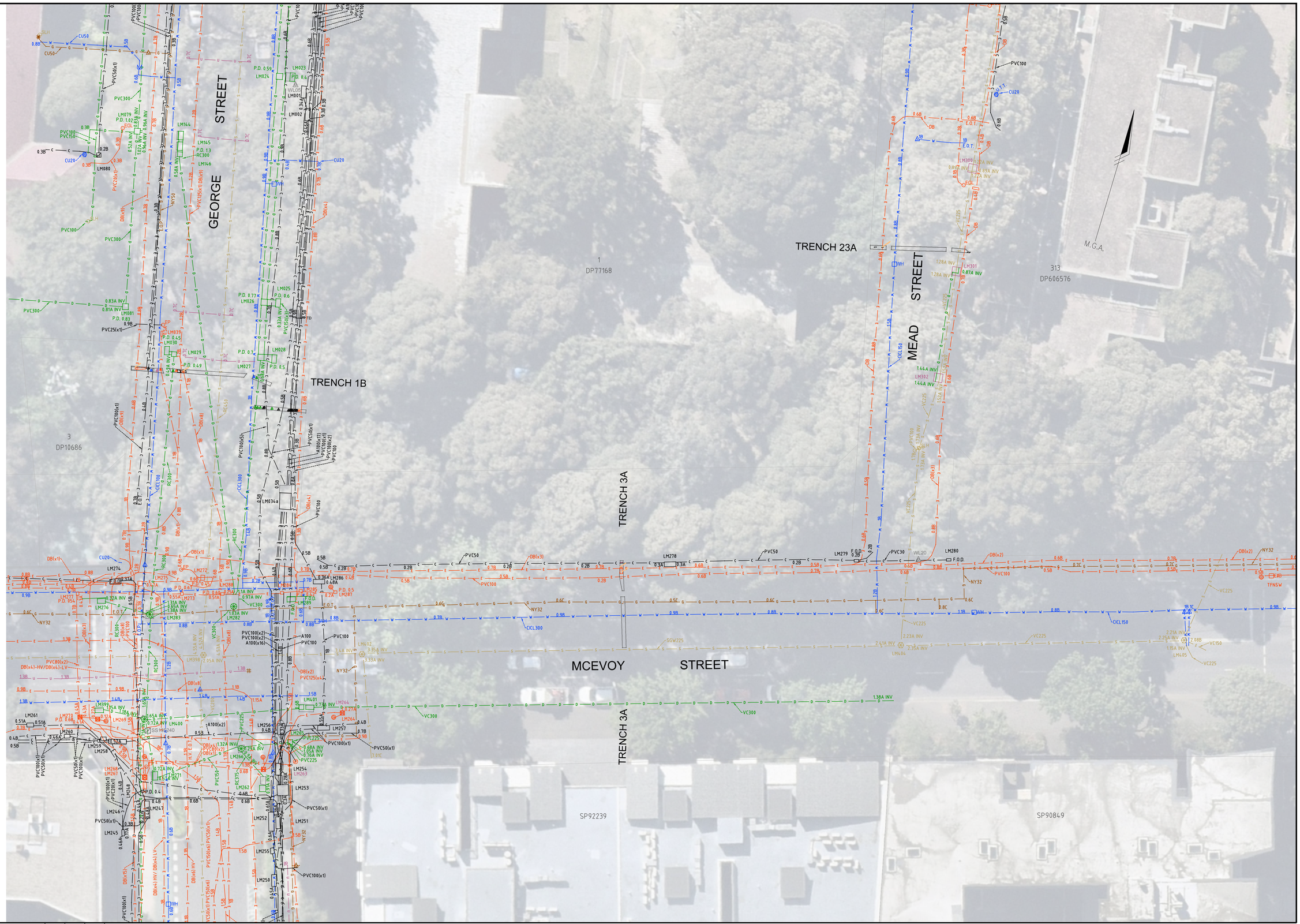
MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- UNIDENTIFIED SERVICE
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ABBREVIATIONS

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EOP	END OF PIPE
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REVISIONS					
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
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HORIZ. SCALE: 1:200 @ A1
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4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

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- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 03.07.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 16 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1116

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
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- CABLE MANHOLE
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- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE
- LIGHT WITH OUTREACH
- LINE-UNDERGROUND
- EDGE OF ELECTRICAL BANK
- LINE-MINOR TRANSMISSION
- LINE-MAJOR TRANSMISSION

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC LIGHT WITH OUTREACH
- TRAFFIC SIGNAL DETECTOR

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD 1.1 m BY 1.1 m MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT
- COMMUNICATIONS CONDUIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT
- HIGH PRESSURE GAS PIPELINE
- LOW PRESSURE GAS PIPELINE

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP
- WATER HOUSE CONNECTION
- WATER MAIN

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE
- SEWER MAIN
- SEWER HOUSE CONNECTION

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- TOP OF CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET
- BOX CULVERT
- DRAINAGE PIPE

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
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ABBREVIATIONS

IL	INVERT LEVEL
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EOS	END OF SCOPE
NA	NOT ACCESSIBLE
RS	ROD STOP
PD	PIT DEPTH
DOC	DEPTH OF CHAMBER
FOD	FULL OF DEBRIS
FOW	FULL OF WATER
NPV	NO PIPE VISIBLE
UTD	UNABLE TO DEPTH
UTO	UNABLE TO OPEN
UTT	UNABLE TO TRACE
UTA	UNABLE TO ACCESS
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NFI	NO FURTHER INFORMATION

MATERIALS

AC	ASBESTOS CONCRETE
CI	CAST IRON
CICL	CAST IRON CEMENT LINED
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CU	COPPER
DICL	DUCTILE IRON CEMENT LINED
EW	EARTHENWARE
GI	GALVANISED IRON
NY	NYLON
PVC	POLYVINYL CHLORIDE
RC	REINFORCED CONCRETE
SGW	SALT GLAZED WARE
SST	STAINLESS STEEL
ST	STEEL
VC	VITRIFIED CLAY



REVISIONS					
P3	3.07.2025	GAS MAIN AMENDED ON SHEET 13 & EASEMENTS ADDED	LMB	TC	GE
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 03.07.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 17 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1117

JOB No: SYD-374169

ISSUE: P3

SIZE: A1

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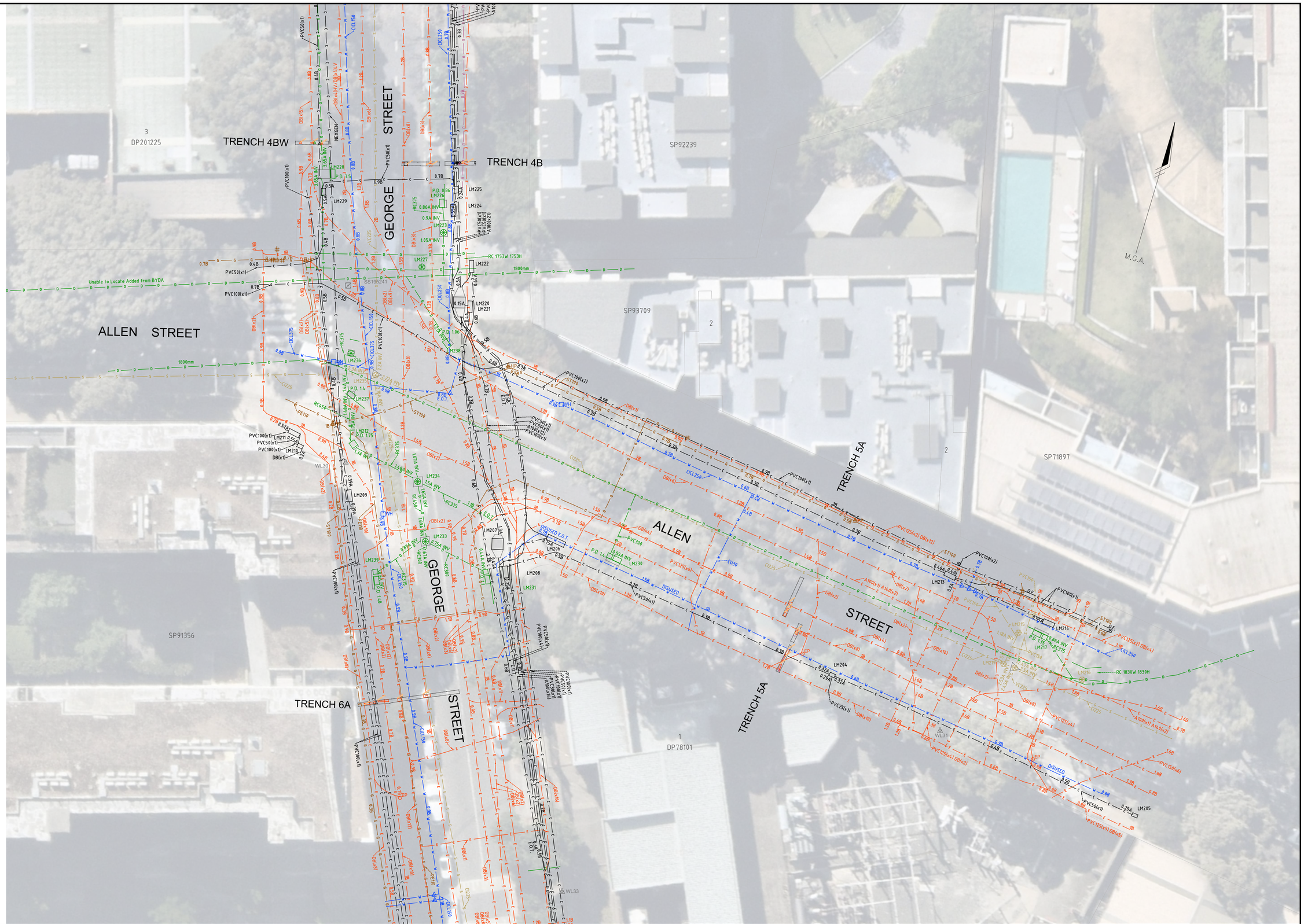
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REVISIONS					
P2	28.02.2025	UTILITIES ADDED AND SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

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VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1100 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS	DATE OF SURVEY: NOV 2024
DRAWN: LMB	DATE OF PLAN: 11.02.2025
CHECKED: TC	DATE LAST SAVED: 02.03.2025
APPROVED: GE	DATE APPROVED: 11.02.2025

TITLE: EXISTING BELOW GROUND SERVICES PLAN SHEET 19 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1119

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
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TRAFFIC CONTROL
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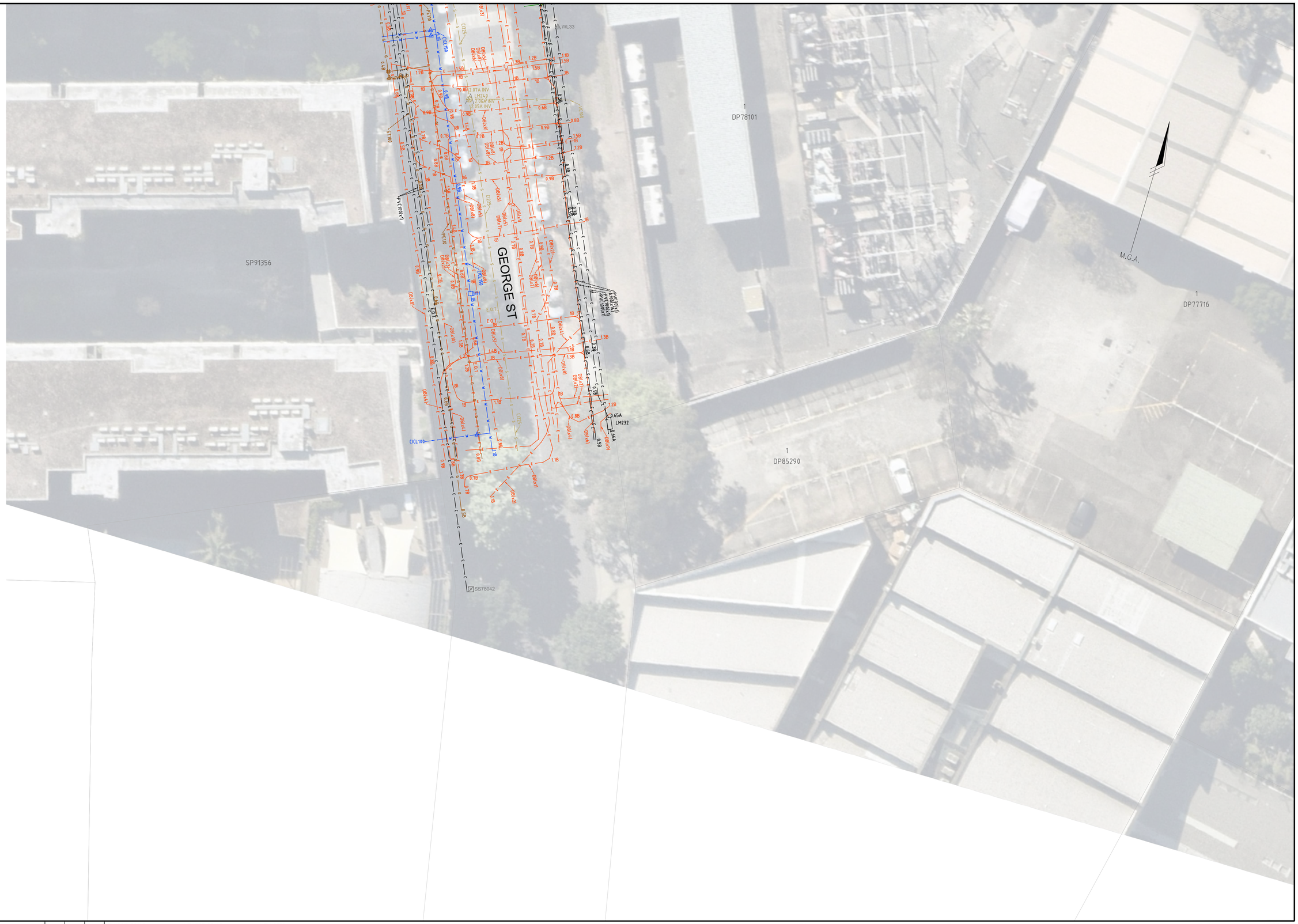
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SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

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SEE OVERALL PLAN PR-SU1100 FOR SURVEY CONTROL

CLIENT: FERRYCARRIG Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	02.03.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING BELOW GROUND SERVICES PLAN SHEET 20 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1120

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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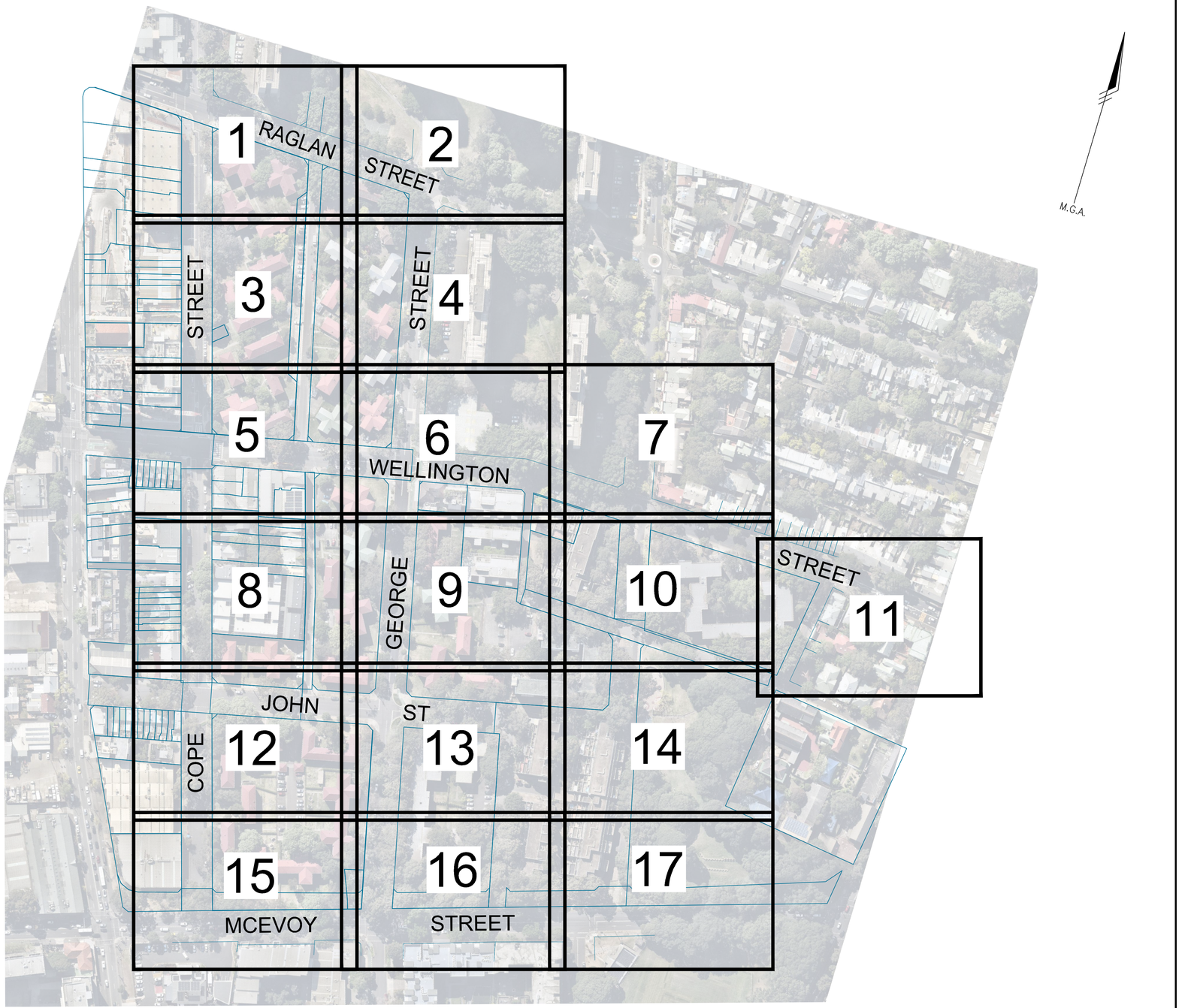
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PROJECT CONTROL SCHEDULE

MARK	MGA2020 COORDINATES		AHD71	TYPE	DESCRIPTION
	EASTING	NORTHING	RL		
PM59542	333556.526	6247616.285	15.138	PPMK	FD IN FOOTPATH
SS24976	334116.523	6247294.591	22.028	PSSM	FD IN TOP OF KERB INLET PIT LINTEL
SS53815	333813.114	6247488.45	16.641	PSSM	FD IN GUTTER
SS78042	333940.402	6247095.343	17.329	PSSM	FD IN FOOTPATH
SS97196	333984.252	6247398.896	23.771	PSSM	FD IN GUTTER
SS195240	333845.027	6247353.69	16.863	PSSM	FD IN TOP OF KERB
SS195241	333889.271	6247217.987	16.389	PSSM	FD IN TOP OF KERB
WL01	333767.868	6247480.177	16.202	PBLT	PL IN FOOTPATH
WL02	333688.246	6247462.506	15.281	PBLT	PL IN FOOTPATH
WL03	333792.232	6247568.121	16.715	PBLT	PL IN FOOTPATH
WL04	333888.694	6247523.984	21.234	PBLT	PL IN FOOTPATH
WL05	333840.342	6247428.458	16.442	PBLT	PL IN TOP OF KERB
WL06	333773.96	6247646.65	16.368	PBLT	PL IN FOOTPATH
WL07	333752.656	6247744.832	17.64	PBLT	PL IN FOOTPATH
WL08	333720.771	6247635.332	15.403	PBLT	PL IN PRAM RAMP
WL09	333658.041	6247622.08	14.704	PBLT	PL IN TOP OF KERB
WL10	333861.381	6247682.36	21.562	PBLT	PL IN TOP OF KERB
WL11	333695.464	6247740.381	16.314	PBLT	PL IN FOOTPATH
WL12	333674.072	6247829.248	17.061	PBLT	PL IN FOOTPATH
WL13	333735.06	6247827.892	18.351	PBLT	PL IN FOOTPATH
WL14	333591.886	6247852.612	16.483	PBLT	PL IN FOOTPATH
WL15	333625.608	6247739.979	15.438	PBLT	PL IN FOOTPATH
WL16	333679.929	6247551.279	14.478	PBLT	PL IN FOOTPATH
WL17	333746.794	6247565.732	15.78	PBLT	PL IN FOOTPATH
WL18	333752.094	6247344.277	17.69	PBLT	PL IN FOOTPATH
WL19	333727.425	6247390.936	16.623	PBLT	PL IN FOOTPATH
WL20	333923.164	6247396.947	19.331	PBLT	PL IN FOOTPATH
WL21	333899.98	6247465.467	20.501	PBLT	PL IN FOOTPATH
WL22	333987.378	6247471.881	27.246	PBLT	PL IN TOP OF KERB
WL23	333965.921	6247536.818	30.997	PBLT	PL IN TOP OF KERB
WL24	333961.765	6247596.007	32.184	PBLT	PL IN FOOTPATH
WL25	333879.535	6247600.948	21.976	PBLT	PL IN FOOTPATH
WL26	333945.248	6247661.288	26.349	PBLT	PL IN FOOTPATH
WL27	334053.682	6247593.86	42.143	PBLT	PL IN PRAM RAMP
WL28	334063.5	6247659.494	32.933	PBLT	FD IN PRAM RAMP
WL29	333880.766	6247295.222	17.841	PBLT	PL IN FOOTPATH
WL30	333894.649	6247198.767	16.111	PBLT	PL IN FOOTPATH
WL31	333967.535	6247188.738	17.362	PBLT	PL IN FOOTPATH
WL32	334075.389	6247171.787	19.783	PBLT	PL IN FOOTPATH
WL33	333931.787	6247159.234	17.085	PBLT	PL IN FOOTPATH
WL34	334131.598	6247462.063	30.207	PBLT	PL IN FOOTPATH



SHEET LAYOUT

EXPLANATORY NOTES:

1. THIS MODEL SHOULD BE VIEWED IN A CAD ENVIRONMENT TO INTERPRET THE 3D INFORMATION.
2. ANY ELECTRONIC FILE IS PROVIDED WITHOUT WARRANTY AND SHOULD BE USED ONLY IN CONJUNCTION WITH THE SUPPLIED PDF/IMAGE COPY OF THIS PLAN.
3. THESE NOTES ARE AN INTEGRAL PART OF THE DIGITAL DATA FILE AND SHOULD BE READ WITH THE DATA FILE AND MUST NOT BE REMOVED FROM THE DATA FILE.
4. UNDERGROUND SERVICES HAVE BEEN INVESTIGATED SEE UTILITIES INVESTIGATION DRAWING PR-SU1100 TO PR-SU1117.
5. IT REMAINS THE RESPONSIBILITY OF THOSE CONDUCTING PHYSICAL WORKS TO ENSURE AN UP-TO-DATE VERSION OF BEFORE YOU DIG AUSTRALIA PLANS IS CONSULTED AND AVAILABLE ON SITE.
6. ALL UTILITIES SHOULD TO BE POTHOLED TO VERIFY LOCATION AND DEPTH.
7. THIS SURVEY PLAN REPRESENTS THE LOCATION OF FEATURES THAT WERE ACCESSIBLE AT THE TIME OF SURVEY.
8. COPYRIGHT : © RPS AAP CONSULTING PTY LTD INFORMATION CONTAINED IN THIS DRAWING / FILE IS THE COPYRIGHT OF RPS AAP CONSULTING PTY LTD. COPYING OR USING THIS DATA IN WHOLE OR PART, IN ANY FORMAT, WITHOUT PERMISSION INFRINGES COPYRIGHT.
9. FOR REASONS OF PLAN PRESENTATION, NOT ALL OF THE INFORMATION CAN BE SHOWN ON THIS PLAN. PLEASE REFER TO ACCOMPANYING DIGITAL DATA FOR ALL SURVEY INFORMATION AND ATTRIBUTES.
10. THIS SURVEY IS ON MGA2020 PROJECT COORDINATES
11. CONTOURS ARE AN INDICATION OF LANDFORM AND SHOULD NOT BE TAKEN IN PREFERENCE TO SPOT LEVELS SHOWN.
12. CONTOUR INTERVAL SHOWN IS 1.0 MAJOR 0.2 MINOR
13. ADDITIONAL REDUCED LEVELS HAVE BEEN SET TO NON-PRINTABLE AND AVAILABLE IN THE CAD FILE.
14. BUILDING FOOTPRINTS SHOWN ARE AT GROUND LEVEL. FOOTPRINTS MAY DIFFER AT OTHER LEVELS.
15. OVERHEAD POWERLINES HAVE NOT BEEN SURVEYED. NO ATTEMPT HAS BEEN MADE TO LOCATE THE POSITION OR REDUCED LEVEL OF INDIVIDUAL CABLES
16. THE PROJECT CADASTRAL BOUNDARIES SHOWN ARE SACM LEVEL ACCURACY AND ACCURATE TO 100MM, FORMAL BOUNDARY RE-ESTABLISHMENT HAS NOT BEEN UNDERTAKEN. SURROUNDING BOUNDARIES ARE CADASTRAL DATABASE (DCDB) AND HAVE NOT BEEN VERIFIED BY SURVEY AND ARE FOR CONTEXT PURPOSES ONLY. BOUNDARIES HAVE NOT BEEN PEGGED AS PART OF THIS ENGAGEMENT.

REVISIONS

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE

HORIZ. SCALE: 1:1500 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
30 15 0 30 60 90
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES
EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN
SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE
SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland
SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE
DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 27.02.2025
DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC OVERALL PLAN WATERLOO ESTATE RENEWEL (SOUTH)
DRAWING No PR-SU1200

JOB No SYD-374169
ISSUE P2
SIZE A1

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LEGEND

ELECTRICAL
- CAB CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GL GARDEN LIGHT
- POLE - LIGHT
- PP POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC TRAFFIC SIGNAL CONTROLLER
- TSD TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- AP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- TEP STD MAIN PIT
- TB TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- GMH MANHOLE COVER
- METER
- GP PIPELINE MARKER
- HP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FH FIRE HYDRANT
- HYDRANT
- M METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE



REVISIONS						
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1 | VERT. SCALE: @ A1

COORDINATES: MGA 2020 | DATUM: AHD

ORIGIN: PM59542 | ORIGIN: PM59542

4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	27.02.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING TOPOGRAPHIC PLAN SHEET 1 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1201

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CAB CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GL GARDEN LIGHT
- POLE - LIGHT
- PP POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC TRAFFIC SIGNAL CONTROLLER
- TSD TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- AP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- TBP STD MAIN PIT
- TB TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MH MANHOLE COVER
- METER
- GP PIPELINE MARKER
- HP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- FH HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- I INLET TO SUMP
- IP INVERT OF PIPE
- JB CONCRETE JUNCTION BOX
- SF SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GAT GATIC COVER LID
- UP UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

M.G.A.

RAGLAN STREET

GEORGE STREET

1 DP1280794

1 DP225159

4 DP597698

1 DP538524

T700 T703 T709 T745 T480 T7 T481 T8 T9 T482 T661 T484 T483 T10 T485 T486 T11 T487 T488 T489 T753 T763 T765 T766 T761 T40 T521 T41 T662 T39 T522 T42 T43 T523 T520 T71 T70 T768 T69

LM430 LM416 LM428 LM415 LM414 LM413 LM412 LM411 WL13

GRASS CONCRETE FOOTPATH GARDEN COURTYARD DRIVEWAY PEDESTRIAN CROSSING BRICK BUILDING CONC PATH

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	27.02.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 2 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No PR-SU1202

JOB No SYD-374169

ISSUE P2

SIZE A1

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LEGEND

ELECTRICAL
- CB — CABLE JUNCTION BOX
- CMP — CABLE MANHOLE
- DFP — DISTRIBUTION FUSE POINT
- GL — GARDEN LIGHT
- POLE - LIGHT
- PP — POLE - POWER
- POLE - POWER & LIGHT
- PSP — POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC — TRAFFIC SIGNAL CONTROLLER
- TSD — TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP — TELEPHONE DISTRIBUTION PILLAR
- ABP — ABOVE GROUND JOINING POST
- OJB — OPTICAL FIBRE JUNCTION BOX
- OFP — OPTICAL FIBRE PIT
- STP — STD MAIN PIT
- TP — TELEPHONE BOX POINT
- TPL — TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MH — MANHOLE COVER
- METER
- GMP — PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

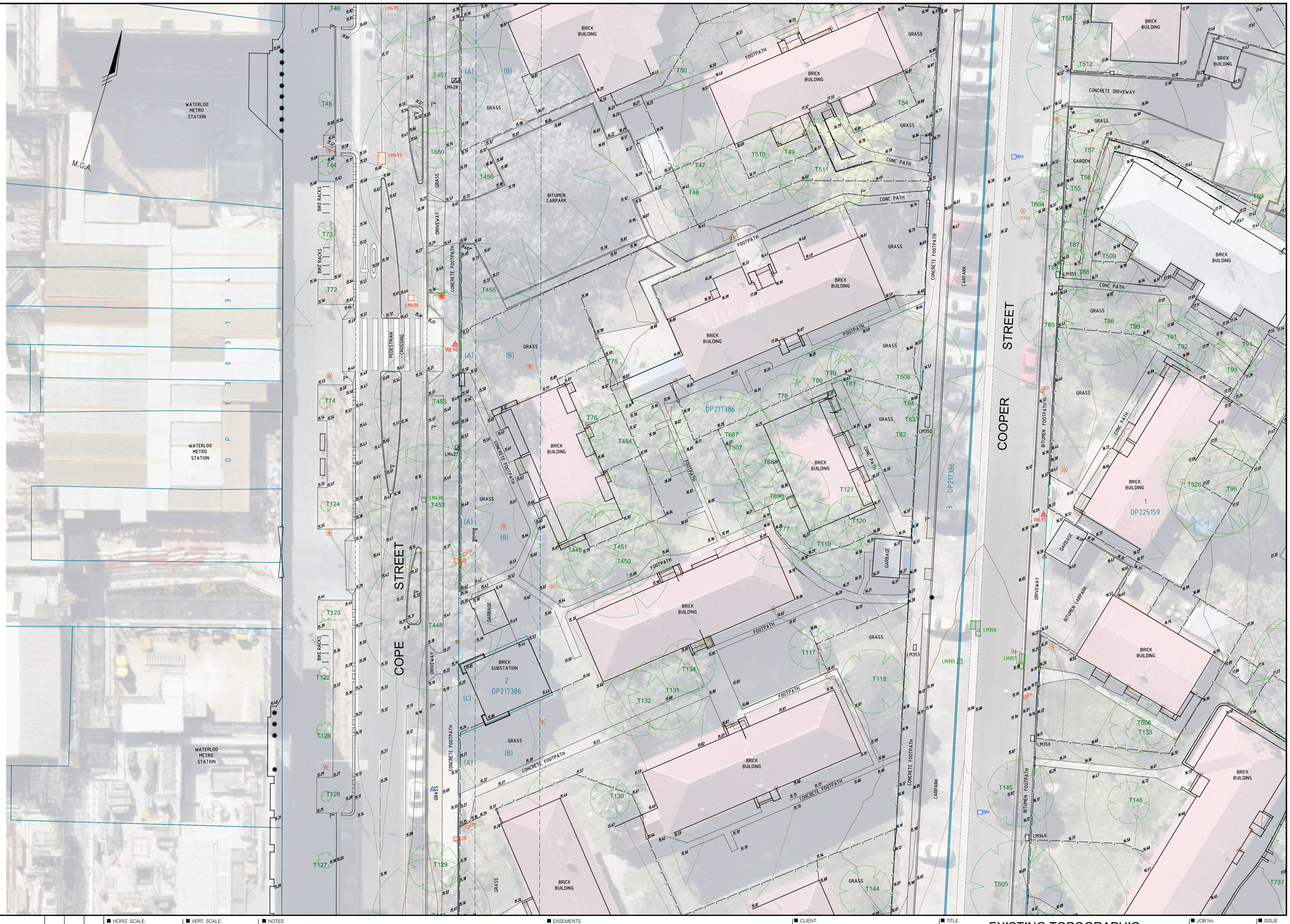
WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYD — HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MH — MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- IT — INLET TO SUMP
- INVERT OF PIPE
- JB — CONCRETE JUNCTION BOX
- SD — SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL — FLOOR LEVEL
- CB — CORNER OF BUILDING
- PARKING METER
- AC — AIR-CONDITIONER

MISCELLANEOUS
- GATIC — GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE



REVISIONS						
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	27.02.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE: EXISTING TOPOGRAPHIC PLAN SHEET 3 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1203

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CAB — CABLE JUNCTION BOX
- CMP — CABLE MANHOLE
- DFP — DISTRIBUTION FUSE POINT
- GLP — GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC — TRAFFIC SIGNAL CONTROLLER
- TSD — TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP — TELEPHONE DISTRIBUTION PILLAR
- ASP — ABOVE GROUND JOINING POST
- OJB — OPTICAL FIBRE JUNCTION BOX
- OFP — OPTICAL FIBRE PIT
- TSP — STD MAIN PIT
- TP — TELEPHONE BOX POINT
- TPL — TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- GMH — MANHOLE COVER
- METER
- GDP — PIPELINE MARKER
- GHP — PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYD — HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL — FLOOR LEVEL
- CB — CORNER OF BUILDING
- PARKING METER
- AC — AIR-CONDITIONER

MISCELLANEOUS
- GAT — GATIC COVER LID
- UP — UNIDENTIFIED POLE
- UP — UNIDENTIFIED SERVICE PIT
- TREE

M.G.A.

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

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VERT. SCALE: @ A1
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DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 27.02.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE: EXISTING TOPOGRAPHIC PLAN SHEET 4 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1204

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CAB — CABLE JUNCTION BOX
- CMP — CABLE MANHOLE
- DFP — DISTRIBUTION FUSE POINT
- GL — GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC — TRAFFIC SIGNAL CONTROLLER
- TSD — TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP — TELEPHONE DISTRIBUTION PILLAR
- AJP — ABOVE GROUND JOINING POST
- OJB — OPTICAL FIBRE JUNCTION BOX
- OFP — OPTICAL FIBRE PIT
- STP — STD MAIN PIT
- TBP — TELEPHONE BOX POINT
- TPL — TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MH — MANHOLE COVER
- METER
- GP — PIPELINE MARKER
- HP — PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYD — HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VP — VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- IT — INLET TO SUMP
- IP — INVERT OF PIPE
- CB — CONCRETE JUNCTION BOX
- SF — SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL — FLOOR LEVEL
- CB — CORNER OF BUILDING
- PARKING METER
- AC — AIR-CONDITIONER

MISCELLANEOUS
- GATIC — GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT

TREE



REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 27.02.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 5 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1205

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER
- AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

M.G.A.

REVISIONS						
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS | DATE OF SURVEY: NOV 2024
DRAWN: LMB | DATE OF PLAN: 11.02.2025
CHECKED: TC | DATE LAST SAVED: 27.02.2025
APPROVED: GE | DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 6 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1206

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CJB CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GL GARDEN LIGHT
- POLE - LIGHT
- PP POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC TRAFFIC SIGNAL CONTROLLER
- TSD TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- AJP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- SMP STD MAIN PIT
- TB TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- GMH MANHOLE COVER
- METER
- GP PIPELINE MARKER
- HP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- FH HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VP VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- IL INLET TO SUMP
- IN INVERT OF PIPE
- JB CONCRETE JUNCTION BOX
- SD SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GAT GATIC COVER LID
- UP UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

M.G.A.

WELLINGTON STREET

DP549940 · DP635663 · DP1173109 · DP544207

T172 T612 T173 T613 T825 T615 T616 T617 T169 T170 T165 T164 T614 T809 T619 T618 T167 T166 T168 T620

GARDEN · CONCRETE FOOTPATH · BRICK BUILDING · BRICK BUILDINGS · CHILD CARE CENTRE INACCESSIBLE · GRASS · MULCH · DRIVEWAY · LANE

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1 · VERT. SCALE: @ A1

COORDINATES: MGA 2020 · DATUM: AHD

ORIGIN: PM59542 · ORIGIN: PM59542

4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS

(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
(B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
(C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
(D) CROSS EASEMENTS
(E) EASEMENT FOR OVERHANG 1 FT WIDE
(F) RIGHT OF WAY
(G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG · Stockland

SURVEY: RPS · DATE OF SURVEY: NOV 2024
DRAWN: LMB · DATE OF PLAN: 11.02.2025
CHECKED: TC · DATE LAST SAVED: 27.02.2025
APPROVED: GE · DATE APPROVED: 11.02.2025

TITLE

EXISTING TOPOGRAPHIC PLAN SHEET 7 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No PR-SU1207

JOB No SYD-374169 · ISSUE P2 · SIZE A1

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LEGEND

ELECTRICAL
- CAB CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GLT GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- AGP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- STP STD MAIN PIT
- TP TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- GMH MANHOLE COVER
- METER
- GDP PIPELINE MARKER
- GHP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYD HYDRANT
- M METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VPT VENT PIPE
- LMP LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GAT GATIC COVER LID
- UP UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE



REVISIONS						
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS

(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
(B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
(C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
(D) CROSS EASEMENTS
(E) EASEMENT FOR OVERHANG 1 FT WIDE
(F) RIGHT OF WAY
(G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG, Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 27.02.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE

EXISTING TOPOGRAPHIC PLAN SHEET 8 WATERLOO ESTATE RENEWEL (SOUTH)

JOB No: SYD-374169
ISSUE: P2
DRAWING No: PR-SU1208
SIZE: A1

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LEGEND

ELECTRICAL
- CAB CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GL GARDEN LIGHT
- POLE - LIGHT
- PP POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC TRAFFIC SIGNAL CONTROLLER
- TSD TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- ABP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- STP STD MAIN PIT
- TB TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- GMH MANHOLE COVER
- METER
- GP PIPELINE MARKER
- GHP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- IN INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
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CHECKED:	TC	DATE LAST SAVED:	27.02.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 9 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No PR-SU1209

JOB No SYD-374169

ISSUE P2

SIZE A1

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LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

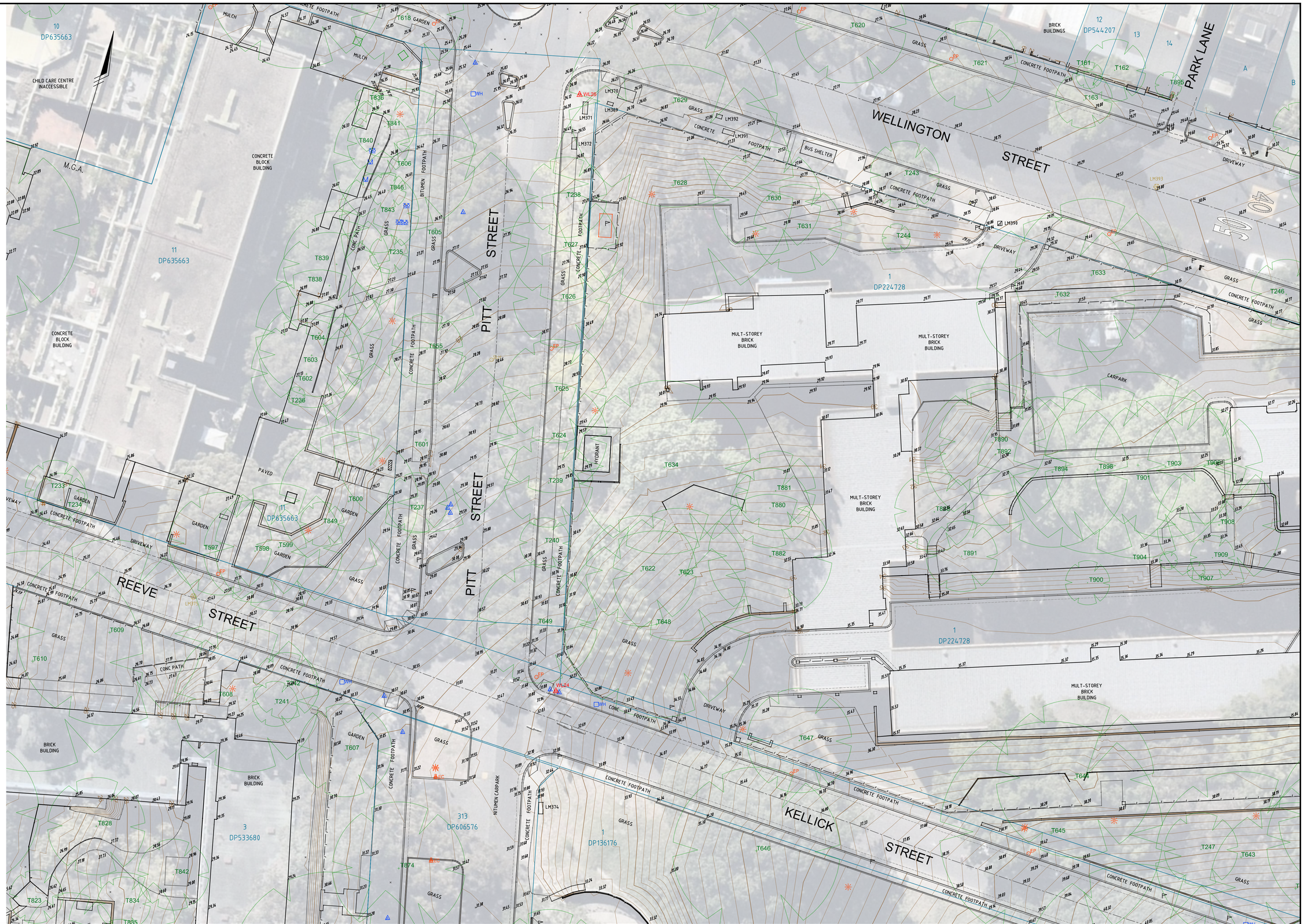
WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER
- AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE



REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES
EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN
SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE
SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
(B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
(C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
(D) CROSS EASEMENTS
(E) EASEMENT FOR OVERHANG 1 FT WIDE
(F) RIGHT OF WAY
(G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG Stockland
SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE
DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 27.02.2025
DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 10 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No PR-SU1210
JOB No SYD-374169
ISSUE P2
SIZE A1

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P:\604-SYD-374169 Waterloo South Redevelopment\03 RPS Data\02 Drafting\PR-SU1200[P2]_Existing Topographic Overall Plan.dwg

LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER
- AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

M.G.A.

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES
EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN
SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE
SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
(B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
(C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
(D) CROSS EASEMENTS
(E) EASEMENT FOR OVERHANG 1 FT WIDE
(F) RIGHT OF WAY
(G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland
SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE
DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 27.02.2025
DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 11 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1211

JOB No: SYD-374169
ISSUE: P2
SIZE: A1

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LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER
- AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

JOHN STREET

COOPER ST

COPE STREET

M.G.A.

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 27.02.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE: EXISTING TOPOGRAPHIC PLAN SHEET 12 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1212

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CBX CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GLT GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC TRAFFIC SIGNAL CONTROLLER
- TSD TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- AP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- TP STD MAIN PIT
- TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MH MANHOLE COVER
- METER
- GP PIPELINE MARKER
- HP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FH FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MH MANHOLE COVER
- VP VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GCV GATIC COVER LID
- UNIDENTIFIED POLE
- UP UNIDENTIFIED SERVICE PIT
- TREE

JOHN STREET
GEORGE STREET
MEAD STREET
DP533678
DP533680
DP606576
DP77168
BRICK BUILDING
MULT-STOREY CONCRETE BLOCK BUILDING
M.G.A.

No.	DATE	REVISION DETAILS	DRAWN	CHK	APP
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE

REVISIONS

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS

(A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
(B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
(C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
(D) CROSS EASEMENTS
(E) EASEMENT FOR OVERHANG 1 FT WIDE
(F) RIGHT OF WAY
(G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 27.02.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE: EXISTING TOPOGRAPHIC PLAN SHEET 13 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1213

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CAB CABLE JUNCTION BOX
- CMP CABLE MANHOLE
- DFP DISTRIBUTION FUSE POINT
- GL GARDEN LIGHT
- POLE - LIGHT
- PP POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TSC TRAFFIC SIGNAL CONTROLLER
- TSD TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TDP TELEPHONE DISTRIBUTION PILLAR
- AGP ABOVE GROUND JOINING POST
- OJB OPTICAL FIBRE JUNCTION BOX
- OFP OPTICAL FIBRE PIT
- TSP STD MAIN PIT
- TB TELEPHONE BOX POINT
- TPL TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- GMH MANHOLE COVER
- METER
- GPP PIPELINE MARKER
- GHP PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FH FIRE HYDRANT
- HYD HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MH MANHOLE COVER
- VP VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- IT INLET TO SUMP
- IN INVERT OF PIPE
- CJB CONCRETE JUNCTION BOX
- SD SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FL FLOOR LEVEL
- CB CORNER OF BUILDING
- PARKING METER
- AC AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

REVISIONS						
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE

DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 27.02.2025
DATE APPROVED: 11.02.2025

TITLE: EXISTING TOPOGRAPHIC PLAN SHEET 14 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1214

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER
- AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE



REVISIONS						
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS
DRAWN: LMB
CHECKED: TC
APPROVED: GE

DATE OF SURVEY: NOV 2024
DATE OF PLAN: 11.02.2025
DATE LAST SAVED: 27.02.2025
DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 15 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1215

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CABLE JUNCTION BOX (CJB)
- CABLE MANHOLE (CMP)
- DISTRIBUTION FUSE POINT (DFP)
- GARDEN LIGHT (GDL)
- POLE - LIGHT
- POLE - POWER (PP)
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL (TCS)
- TRAFFIC SIGNAL CONTROLLER (TSC)
- TRAFFIC SIGNAL DETECTOR (TSD)
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR (TDP)
- ABOVE GROUND JOINING POST (AGJP)
- OPTICAL FIBRE JUNCTION BOX (OJB)
- OPTICAL FIBRE PIT (OFP)
- STD MAIN PIT (STD)
- TELEPHONE BOX POINT (TB)
- TELEPHONE POLE (TPL)
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER (GMH)
- METER
- PIPELINE MARKER (GMP)
- PIPELINE MARKER - HIGH PRESSURE (GMP HP)
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT (FH)
- METER (WM)
- STOP VALVE (SV)
- TAP

SEWER
- MANHOLE COVER (SMH)
- VENT PIPE (SVP)
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE (DMH)
- GULLY PIT POINT (GPP)
- INLET TO SUMP (ITS)
- INVERT OF PIPE (IP)
- CONCRETE JUNCTION BOX (CJB)
- SUBSOIL DRAIN FLUSH POINT (SDFP)
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL (FL)
- CORNER OF BUILDING (CB)
- PARKING METER
- AIR-CONDITIONER (AC)

MISCELLANEOUS
- GATIC COVER LID (GCL)
- UNIDENTIFIED POLE (UP)
- UNIDENTIFIED SERVICE PIT (USP)
- TREE

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG / Stockland

SURVEY: RPS — DATE OF SURVEY: NOV 2024
DRAWN: LMB — DATE OF PLAN: 11.02.2025
CHECKED: TC — DATE LAST SAVED: 27.02.2025
APPROVED: GE — DATE APPROVED: 11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 16 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1216

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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LEGEND

ELECTRICAL
- CABLE JUNCTION BOX
- CABLE MANHOLE
- DISTRIBUTION FUSE POINT
- GARDEN LIGHT
- POLE - LIGHT
- POLE - POWER
- POLE - POWER & LIGHT
- POWER SERVICE PILLAR
- TRANSFORMER CABINET CENTRE

TRAFFIC CONTROL
- TRAFFIC CONTROL SIGNAL
- TRAFFIC SIGNAL CONTROLLER
- TRAFFIC SIGNAL DETECTOR
- TRAFFIC SIGNAL JUNCTION BOX

COMMUNICATIONS
- TELEPHONE DISTRIBUTION PILLAR
- ABOVE GROUND JOINING POST
- OPTICAL FIBRE JUNCTION BOX
- OPTICAL FIBRE PIT
- STD MAIN PIT
- TELEPHONE BOX POINT
- TELEPHONE POLE
- TELEPHONE SINGLE CONCRETE PIT
- TELEPHONE TRIPLE CONCRETE PIT
- TELEPHONE TWIN CONCRETE PIT

GAS
- MANHOLE COVER
- METER
- PIPELINE MARKER
- PIPELINE MARKER - HIGH PRESSURE
- VALVE BOX
- VENT PIPE
- TEST POINT

WATER
- AIR VALVE
- EARTH TERMINAL
- FIRE HYDRANT
- HYDRANT
- METER
- STOP VALVE
- TAP

SEWER
- MANHOLE COVER
- VENT PIPE
- LAMPHOLE

DRAINAGE / STORMWATER
- DRAINAGE JUNCTION MANHOLE
- GULLY PIT POINT
- INLET TO SUMP
- INVERT OF PIPE
- CONCRETE JUNCTION BOX
- SUBSOIL DRAIN FLUSH POINT
- KERB INLET

CULTURAL
- SIGN POST
- LARGE SIGN
- BOLLARD
- FLOOR LEVEL
- CORNER OF BUILDING
- PARKING METER
- AIR-CONDITIONER

MISCELLANEOUS
- GATIC COVER LID
- UNIDENTIFIED POLE
- UNIDENTIFIED SERVICE PIT
- TREE

MULTI-STOREY CONCRETE BLOCK BUILDING
313 DP606576
1 DP136176
2 DP136177
MCEVOY STREET
PAVED
GRASS
CONCRETE FOOTPATH
STAIRS
T859 T857 T862 T861 T863 T864 T865 T866 T869 T868 T871 T420 T421 T418 T887 T902 T889 T893 T415 T910 T416 T417 T911 T912 T426 T428 T429 T433 T427
WL22 LM383 LM384 LM397 LM409 LM281 LM406 LM407 SS97196
TFNSW EJB
M.G.A.

REVISIONS					
P2	28.02.2025	ADDITIONAL SURVEY ADDED. SHEET LAYOUT AMENDED	LMB	TC	GE
P1	11.02.2025	INITIAL ISSUE	LMB	TC	GE
No.	DATE	REVISION DETAILS	DRAWN	CHK	APP

HORIZ. SCALE: 1:200 @ A1
VERT. SCALE: @ A1
COORDINATES: MGA 2020
DATUM: AHD
ORIGIN: PM59542
ORIGIN: PM59542
4 2 0 4 8 12
SCALE IN METRES AT ORIGINAL REDUCTION RATIO

NOTES

EXPLANATORY NOTES ON OVERALL PLAN PR-SU1200 ARE APPLICABLE TO ALL SHEETS ON THIS PLAN

SEE SHEET 18 PLAN PR-SU1218 FOR TREE SCHEDULE

SEE OVERALL PLAN PR-SU1200 FOR SURVEY CONTROL

EASEMENTS
- (A) EASEMENT FOR ROCK ANCHORS 1.9 WIDE
- (B) EASEMENTS FOR ROCK ANCHORS VARIABLE WIDTH
- (C) EASEMENTS FOR ROCK ANCHORS 1.25 AND 1.9 WIDE
- (D) CROSS EASEMENTS
- (E) EASEMENT FOR OVERHANG 1 FT WIDE
- (F) RIGHT OF WAY
- (G) EASEMENT FOR GAS MAIN

CLIENT: FERRYCARRIG Stockland

SURVEY:	RPS	DATE OF SURVEY:	NOV 2024
DRAWN:	LMB	DATE OF PLAN:	11.02.2025
CHECKED:	TC	DATE LAST SAVED:	27.02.2025
APPROVED:	GE	DATE APPROVED:	11.02.2025

TITLE
EXISTING TOPOGRAPHIC PLAN SHEET 17 WATERLOO ESTATE RENEWEL (SOUTH)

DRAWING No: PR-SU1217

JOB No: SYD-374169

ISSUE: P2

SIZE: A1

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TREE SCHEDULE

ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height	ID	Trunk Dia	Spread	Height
T1	0.1	2	3	T103	0.1	4	5	T205	0.1	4	4	T307	1.0	12	19	T409	1.2	19	28	T511	0.5	11	11	T613	1.0	20	23	T715	0.2	5	6	T817	0.7	17	16
T2	0.1	1	3	T104	0.1	4	5	T206	0.3	2	3	T308	0.8	12	10	T410	0.6	10	19	T512	0.8	12	12	T614	1.3	13	17	T716	0.2	5	9	T818	0.9	11	10
T3	0.4	8	18	T105	0.3	9	7	T207	0.4	3	6	T309	1.3	18	21	T411	1.0	13	26	T513	0.3	10	13	T615	1.4	39	24	T717	0.2	3	6	T819	0.7	14	10
T4	0.3	6	11	T106	0.4	7	7	T208	1.8	22	20	T310	1.1	19	22	T412	0.7	13	28	T514	0.3	11	18	T616	1.0	21	24	T718	0.6	17	20	T820	1.2	17	18
T5	0.4	8	17	T107	0.5	6	9	T209	0.6	8	14	T311	0.9	16	27	T413	0.1	2	5	T515	2.1	31	27	T617	1.6	24	24	T719	0.1	2	4	T821	0.8	16	18
T6	0.2	5	4	T108	0.3	6	6	T210	0.2	9	10	T312	0.3	7	8	T414	0.1	2	4	T516	0.3	16	12	T618	0.9	13	16	T720	0.1	7	5	T822	0.2	7	10
T7	0.2	5	8	T109	0.4	7	5	T211	0.4	7	9	T313	0.3	6	7	T415	1.6	21	20	T517	0.5	12	11	T619	1.2	20	15	T721	0.1	3	9	T823	0.3	6	9
T8	0.3	5	9	T110	0.4	8	6	T212	0.4	8	7	T314	0.5	10	19	T416	0.9	13	15	T518	0.3	13	10	T620	1.0	13	17	T722	0.7	10	12	T824	0.4	15	12
T9	0.5	8	18	T111	0.3	10	7	T213	0.4	12	11	T315	0.3	8	7	T417	1.0	14	16	T519	0.2	5	10	T621	0.6	10	12	T723	0.2	8	8	T825	1.0	26	22
T10	0.3	10	7	T112	0.2	4	7	T214	0.4	6	6	T316	0.5	11	20	T418	0.8	14	23	T520	1.9	38	25	T622	0.3	13	18	T724	0.2	7	7	T826	1.1	20	22
T11	0.2	3	7	T113	0.5	7	7	T215	0.2	4	6	T317	0.5	5	21	T419	0.9	14	18	T521	1.0	18	22	T623	0.9	15	20	T725	0.2	6	6	T827	0.2	7	9
T12	0.1	1	2	T114	0.5	10	9	T216	0.1	4	5	T318	0.5	7	21	T420	1.0	14	20	T522	0.9	20	22	T624	0.2	12	10	T726	0.2	5	6	T828	0.6	11	16
T13	<0.1	2	4	T115	0.4	10	11	T217	0.2	9	14	T319	0.3	7	14	T421	0.7	12	18	T523	1.5	18	26	T625	0.3	12	13	T727	0.1	3	3	T829	0.9	19	22
T14	<0.1	2	3	T116	16.8	17	20	T218	0.2	8	5	T320	0.2	7	10	T422	0.8	11	19	T524	0.4	11	17	T626	0.4	11	11	T728	0.2	8	9	T830	0.8	10	16
T15	0.1	2	3	T117	0.4	5	15	T219	0.2	7	17	T321	0.4	6	10	T423	0.9	9	19	T525	0.5	14	14	T627	0.3	12	12	T729	0.2	5	7	T831	0.8	11	15
T16	0.1	2	3	T118	0.4	7	12	T220	0.2	8	6	T322	0.4	13	18	T424	0.4	5	21	T526	0.2	11	9	T628	0.9	27	24	T730	0.4	7	10	T832	0.2	5	8
T17	0.8	0	2	T119	0.3	7	8	T221	0.2	7	7	T323	0.7	17	19	T425	0.7	14	15	T527	0.7	11	13	T629	1.0	24	23	T731	0.1	2	5	T833	0.2	3	9
T18	0.1	1	3	T120	0.4	6	8	T222	0.2	10	9	T324	0.2	5	9	T426	0.6	11	12	T528	0.4	12	7	T630	0.5	12	19	T732	0.2	5	6	T834	0.2	6	12
T19	0.7	6	5	T121	0.2	2	3	T223	0.3	9	10	T325	0.8	16	20	T427	0.2	4	7	T529	0.4	11	7	T631	0.7	10	18	T733	0.2	6	8	T835	0.5	12	17
T20	0.3	8	9	T122	<0.1	1	3	T224	0.6	8	15	T326	0.2	6	6	T428	0.1	2	3	T530	0.4	13	11	T632	1.0	18	21	T734	1.0	17	20	T836	0.2	3	6
T21	0.4	8	12	T123	0.1	1	3	T225	0.3	7	6	T327	0.2	6	9	T429	0.2	3	8	T531	0.7	11	13	T633	0.8	17	21	T735	0.2	2	7	T837	0.3	6	16
T22	0.4	9	12	T124	0.1	1	3	T226	0.2	8	6	T328	0.4	8	7	T430	0.2	5	7	T532	0.3	14	13	T634	0.8	20	20	T736	0.2	6	9	T838	0.4	12	21
T23	0.5	8	12	T125	0.1	2	3	T227	0.5	9	7	T329	0.9	18	19	T431	0.1	4	5	T533	0.8	19	12	T635	0.6	12	13	T737	0.1	1	3	T839	0.6	12	22
T24	0.4	8	12	T126	<0.1	1	3	T228	0.4	8	16	T330	0.5	6	7	T432	0.1	5	9	T534	0.4	10	9	T636	1.3	19	23	T738	0.2	3	4	T840	0.4	7	19
T25	0.6	8	11	T127	0.1	2	3	T229	0.2	7	7	T331	0.5	10	15	T433	0.1	3	7	T535	0.5	11	10	T637	1.0	31	18	T739	0.8	15	18	T841	0.3	7	20
T26	0.2	4	5	T128	0.1	1	3	T230	0.5	4	11	T332	0.4	5	9	T434	0.8	13	16	T536	0.4	12	11	T638	1.5	24	20	T740	0.1	4	6	T842	0.4	8	13
T27	0.1	2	2	T129	0.2	6	7	T231	0.5	10	11	T333	0.3	7	11	T435	2.0	15	13	T537	0.5	13	11	T639	0.8	17	23	T741	0.1	2	4	T843	0.5	9	22
T28	0.3	8	5	T130	0.4	5	8	T232	0.1	2	4	T334	0.2	6	9	T436	0.8	17	18	T538	0.3	6	7	T640	1.1	15	18	T742	0.2	7	9	T844	0.9	17	24
T29	0.3	5	6	T131	0.5	9	11	T233	0.3	7	18	T335	0.3	8	10	T437	0.8	13	18	T539	1.1	20	23	T641	1.4	19	22	T743	0.4	7	9	T845	0.3	5	9
T30	0.1	2	2	T132	0.3	8	9	T234	0.4	6	18	T336	0.3	7	9	T438	1.1	20	21	T540	0.8	17	23	T642	1.2	18	22	T744	0.1	11	9	T846	0.1	4	7
T31	0.2	7	5	T133	0.2	3	6	T235	0.1	4	7	T337	0.7	9	3	T439	1.2	12	16	T541	0.8	10	18	T643	0.7	19	22	T745	0.8	14	14	T847	0.3	7	13
T32	0.1	1	2	T134	0.2	6	8	T236	0.2	2	4	T338	0.6	11	19	T440	0.5	14	9	T542	0.6	12	18	T644	0.7	18	21	T746	0.3	10	10	T848	0.1	3	7
T33	0.2	3	3	T135	0.4	5	7	T237	0.2	7	10	T339	0.8	13	11	T441	7.8	24	20	T543	1.0	16	22	T645	1.0	25	20	T747	0.2	10	9	T849	0.3	5	8
T34	0.1	3	4	T136	0.3	5	9	T238	0.2	9	8	T340	0.9	20	12	T442	1.1	18	21	T544	0.4	11	10	T646	1.3	19	19	T748	0.4	8	9	T850	0.1	3	7
T35	0.2	2	1	T137	1.1	10	11	T239	0.2	10	10	T341	0.7	7	8	T443	0.5	10	16	T545	1.0	11	13	T647	0.4	12	11	T749	0.1	3	8	T851	0.1	3	7
T36	0.5	5	6	T138	0.5	3	5	T240	0.1	6	7	T342	0.8	11	21	T444	0.3	12	18	T546	1.0	12	11	T648	0.7	21	18	T750	0.3	7	11	T852	0.7	12	21
T37	0.3	7	8	T139	0.1	1	3	T241	0.4	5	6	T343	0.5	7	6	T445	0.4	10	18	T547	0.8	15	17	T649	0.7	13	18	T751	0.8	12	18	T853	0.4	13	21
T38	0.3	6	8	T140	<0.1	1	3	T242	0.4	8	10	T344	0.8	7	10	T446	0.7	14	11	T548	0.9	11	16	T650	1.2	25	21	T752	0.1	2	2	T854	0.2	3	5
T39	0.2	10	10	T141	0.1	2	3	T243	0.2	8	10	T345	0.5	8	6	T447	0.5	14	16	T549	0.8	15	16	T651	1.4	13	18	T753	0.4	9	21	T855	0.3	8	10
T40	0.1	3	4	T142	0.4	7	6	T244	0.7	3	13	T346	0.6	9	20	T448	1.2	16	17	T550	0.8	19	21	T652	1.0	19	22	T754	0.5	7	12	T856	0.3	9	11
T41	0.1	2	4	T143	0.3	3	2	T245	0.8	9	11	T347	0.5	11	14	T449	0.3	10	10	T551	1.0	12	11	T653	0.1	3	7	T755	0.1	4	7	T857	0.3	3	78
T42	0.3	7	6	T144	0.4	6	9	T246	0.2	8	11	T348	0.8	11	15	T450	0.5	12	10	T552	1.1	22	24	T654	0.3	9	8	T756	0.2	5	8	T858	0.3	7	16
T43	0.4	8	10	T145	0.3	8	6	T247	0.9	8	21	T349	0.3	5	9	T451	0.4	10	10	T553	0.6	14	21	T655	0.2	2	3	T757	0.2	4	9	T859	0.1	2	9
T44	0.1	2	3	T146	0.3	5	4	T248	0.5	7	17	T350	0.6	11	14	T452	1.3	14	16	T554	0.8	16	14	T656	0.2	8	7	T758	0.3	4	6	T860	0.3	5	7
T45	0.1	2	3	T147	0.3	8	8	T249	0.2	3	5	T351	0.2	4	8	T453	0.6	13	17	T555	1.0	27	24	T657	0.5	4	4	T759	0.3	6	8	T861	0.1	2	12
T46	<0.1	1	3	T148	0.3	6	6	T250	0.3	3	3	T352	0.6	12	15	T454	0.4	10	9	T556	1.1	12	22	T658	0.5	9	9	T760	0.1	2	4	T862	0.2	3	11
T47	0.4	5	8	T149	0.3	10	6	T251	0.7	9	23	T353	0.8	15	17	T455	0.5	11	8	T557	1.1	12	13	T659	0.4	5	20	T761	0.3	10	8	T863	0.2	3	11
T48	0.4	6	7	T150	0.5	10	18	T252	0.2	2	12	T354	0.2	6	6	T456	1.1	29	19	T558	0.5	11	17	T660	0.2	5	8	T762	0.2	6	8	T864	0.2	2	11
T49	0.5	8	11	T151	0.5	4	17	T253	0.3	2	11	T355	0.5	7	10	T457	0.5	13	14	T559	0.7	15	18	T661	0.2	5	8	T763	0.3	5	9	T865	0.1	3	11
T50	0.5	4	6	T152	0.4	4	18	T254	0.3	6	7	T356	0.2	4	9	T458	0.9	16	18	T560	0.7	14	20	T662	0.2	10	10	T764	0.3	7	5	T866	0.2	3	12
T51	0.6	9	15	T153	0.3	8	7	T255	0.9	8	6	T357	0.3	9	10	T459	0.6	13	8	T561	1.0	22	25	T663	0.8	11	22	T765	0.8	13	14	T867	0.5	10	18
T52	0.2	6	15	T154	0.3	8	6	T256	1.1	6	14	T358	0.3	8	13	T460	0.8	19	15	T562	0.9	17	16	T664	0.5	4	11	T766	0.6	19	20	T868	0.1	3	9
T53	0.3	6	13	T155	0.4	9	9	T257	0.5	9	14	T359	1.0	21	19	T461	0.9	17	20	T563	1.2	17	26	T665	0.7	14	21	T767	1.4	21	17	T869	1.1	9	13
T54	0.3	8	8	T156	0.3	8	9	T258	0.2	6	7	T360	0.2	7	8	T462	0.9	17	17	T564	1.0	20	26	T666	0.1	3	7	T768	0.8	16	21	T870	0.2	12	9
T55	0.4	7	11	T157	0.3	9	9	T259	0.3	7	7	T361	0.7	16	14	T463	1.6	31	26	T565	0.6	17	22	T667	0.3	6	7	T769	0.4	5	11	T871	0.3	10	10
T56	0.2	9	10	T158	0.3	8	6	T260	0.3	7	9	T362	0.5	6	13	T464	0.9	15	24	T566	0.5	10	8	T668	0.2	6	9	T770	1.1	14	21	T872	1.0	22	25
T57	0.4	9	9	T159	0.8	7	9	T261	1.2	10	11	T363	0.4	8	10	T465	0.3	11	18	T567	0.5	12	9	T669	0.2	7	10	T771	0.6	8	20	T873	0.2	7	11
T58	0.3	7	7	T160	0.7	10	22	T262	0.4	9	17	T364	0.5	10	14	T466	0.7	13	19	T568	0.5	11	9	T670	0.3	3	14	T772	0.4	8	5	T874	0.9	15	18
T59	0.2	7	8	T161	0.2	3	7	T263	0.3	7	14	T365	0.5	4	12	T467	0.9	16	24	T569	0.4	12	8	T671	0.2	7	8	T773	0.6	7	11	T875	1.0	19	22
T60	0.2	8	11	T162	0.3	7	8	T264	0.1	1	2	T366	0.1	2	7	T468	0.7	18	21	T570	0.0	13	15	T672	0.2	7	8	T774	0.5	9	18	T876	1.0	13	21
T61	0.5	9	8	T163	0.6	6	11	T265	0.4	7	8	T367	0.2	4	7	T469	0.6	11	20	T571	0.7	15	12	T673	0.8	14	13	T775	1.0	24	22	T877	0.2	5	6
T62	0.5	7	8	T164	0.4	8	16	T266	0.2	5	9	T368	0.8	22	20	T470	0.3	17	18	T572	0.9	17	14	T674	0.2	6	13	T776	0.5	16	20	T878	0.5	12	11
T63	0.3	8	8	T165	0.2	8	11	T267	0.2	5	8	T369	0.5	8	12	T471	0.4	11	23	T573	0.3	13	11	T675	0.1	2	3	T777	0.5	9	18	T879	0.1	4	6
T64	0.5	9	10	T166	0.4	8	13	T268	0.6	5	24	T370	1.1	15	11	T472	0.4	10	20	T574	0.6	16	22	T676	0.4	7	9	T778	0.2	6	10	T880	0.6	9	20
T65	0.3	8	9	T167	0.2	7	14	T269	0.6	8	21	T371	0.8	11	18	T473	1.0	17	27	T575	0.7	20	22	T677	0.6	11	14	T779	0.7	8	17	T881	0.6	9	22
T66	0.5	6	12	T168	0.8	8	20	T270	0.2	7	10	T372	0.4	10	14	T474	0.8	10	27	T576	0.6	17	19	T678	0.1	3	6	T780	0.5	9	13	T882	0.6	14	20
T67	0.3	9	16	T169	0.3	6	7	T271	0.5	6	12	T373	0.5	11	10	T475	1.2	24	26	T577	1.4	16	26	T679	0.3	13	11	T781	0.2	6	10	T883	1.5	25	24
T68	0.6	6	14	T170	0.4	4	4	T272	0.3	7	11	T374	0.9	13	26	T476	1.5	11	24	T578	0.9	11	18	T680	0.3	13	11	T782	0.6	10	12	T884	0.3	10	11
T69	0.3	6	11	T171	0.2	2	3	T273	0.3	6	9	T375	0.4	9	11	T477	0.7	19	25	T579	0.6	12	12	T681	0.7	16	14	T783	0.6	8	8	T885	1.1	15	26
T70	0.5	6	15	T172	0.1	2	3	T274	0.3	5	16	T376	0.5	14	23	T478	0.5	20	25	T580	1.5	11	18	T682	0.6	7	23	T784	1.1	23	25	T886	1.4	20	27
T71	0.7	6	17	T173	0.2	2	3	T275	0.3	9	15	T377	0.4	10	16	T479	0.6	16	22	T581	1.2	12	18	T683	0.6	10	19	T785	6.0	21	6	T887	2.0	28	27
T72	<0.1	0	3	T174	0.5	7	7	T276	0.4	7	19	T378	0.6	11	15	T480	0.5	20	21	T582	0.5	14	13	T684	0.4	3	15	T786	0.8	11	20	T888	0.4	9	22
T73	0.1	2	4	T175	0.7	10	13	T277	0.5	14	12	T379	0.4	12	14	T481	0.6	13	23	T583	0.7	18	23	T685	0.5	8	6	T787	0.6	7	19	T889	0.7	19	15
T74	0.1	1	2	T176	0.3	7	8	T278	0.2	5	10	T380	0.6	12	19	T482	0.6	14	21	T584	1.5	24	24	T686	0.6	14	21	T788	0.2	7	6	T890	0.6	12	24
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T76	0.1	4	6	T178	0.2	5	11	T280	0.6	9	13	T382	0.9	16	26	T484	0.7	14	20	T586	0.6	12	13	T688	0.3	5	5	T790	0.3	4	6	T892	0.7	16	23
T77	0.1	8	10	T179	0.3	9	9	T281	0.5	7	13	T383	1.0	16	24	T485	0.8	13	23	T587	0.3	6	8	T689	0.2	7	9	T791	0.3	5	8	T893	1.5	24	23
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T79	0.3	7	11	T181	0.3	7	9	T283	0.6	9	16	T385	0.5	10	19	T487	0.3	8	18	T589	0.8	11	17	T691	0.1	3	4	T793	0.1	4	5	T895	0.2	3	3
T80	0.3	8	8	T182	0.3	8	10	T284	0.5	10	17	T386	1.0	13	25	T488	0.4	7	19	T590	1.3	30	23	T692	0.1	2	3	T794	0.1	3	6	T896	0.8	22	21
T81	0.2	6	6	T183	0.3	5	5	T285	1.0	7	9	T387	1.0	16	22	T489	0.3	6	19	T591	1.2	24	28	T693	0.1	3	5	T795	0.2	2	3	T897	1.9	21	18
T82	0.6	9	7	T184	0.2	4	5	T286	0.1	2	5	T388	0.5	10	11	T490	1.1	26	23	T592	1.4	32	28	T694	0.4	11	11	T796	0.2	6	5	T898	0.5	19	18
T83	0.1	1	3	T185	0.2	5	5	T287	0.6	6	20	T389	0.6	13	11	T491	0.5	10	18	T593	1.3	21	25	T695	0.6	21	16	T797	0.1	5	6	T899	2.3	28	22
T84	0.1	3	3	T186	0.4	9	6	T288	0.6	5	20	T390	0.2	6	8	T492	1.2	20	20	T594	0.5	18	16	T696	0.4	9	14	T798	0.6	11	18	T900	0.2	5	4
T85	0.4	6	6	T187	0.3	5	6	T289	0.7	8	15	T391	0.2	5	6	T493	0.4	6	8	T595	0.5	12	13	T697	0.2	4	5	T799	0.1	6	8	T901	0.5	21	20
T86	0.4	10	9	T188	0.2	5	6	T290	1.0	16	22	T392	0.9	14	26	T494	0.6	19	18	T596	0.7	20	23	T698	0.3	10	11	T800	0.7	11	23	T902	1.3	24	23
T87	0.5	4	11	T189	0.6	6	7	T291	0.6	9	18	T393	0.7	15	24	T495	1.0	19	24	T597	0.6	12	22	T699	0.2	4	10	T801	0.7	14	23	T903	0.4	16	19
T88	0.3	5	10	T190	0.8	7	6	T292	1.2	8	19	T394	0.6	7	23	T496	0.6	11	9	T598	0.7	12	23	T700	0.4	7	8	T802	0.2	4	5	T904	0.1	2	5
T89	0.2	4	5	T191	0.3	10	9	T293	1.0	17	23	T395	1.2	17	26	T497	0.8	14	13	T599	0.7	14	23	T701	0.1	5	4	T803	0.9	23	27	T905	0.5	6	9
T90	0.3	3	7	T192	0.4	9	12	T294	0.8	17	26	T396	1.0	12	26	T498	0.6	11	11	T600	0.6	16	23	T702	0.3	8	13	T804	0.3	6	13	T906	0.6	13	22
T91	0.6	8	8	T193	0.6	9	9	T295	0.5	10	13	T397	0.9	10	25	T499	0.3	7	7	T601	1.1	21	27	T703	0.4	7	7	T805	0.1	2	4	T907	0.1	2	6
T92	0.1	7	7	T194	0.3	3	8	T296	0.6	10	15	T398	0.4	4	18	T500	0.7	17	15	T602	0.6	13	22	T704	0.2	6	8	T806	0.4	8	13	T908	0.6	14	22
T93	0.5	7	9	T195	0.3	4	7	T297	0.6	11	12	T399	0.5	16	26	T501	1.3	26	20	T603	0.3	12	23	T705	0.7	13	20	T807	0.3	12	15	T909	0.3	5	10
T94	0.1	5	6	T196	0.5	5	8	T298	1.2	20	25	T400	0.7	27	26	T502	0.9	13	14	T604	0.7	14	23	T706	0.2	5	4	T808	0.2	4	3	T910	1.5	15	15
T95	0.3	10	10	T197	0.1	2	4	T299	0.7	13	13	T401	0.4	3	15	T503	0.6	10	13	T605	1.1	21	24	T707	0.2	9	9	T809	0.3	6	12	T911	1.7	19	20
T96	0.2	14	7	T198	0.8	10	11	T300	1.2	18	14	T402	0.9	17	27	T504	0.5	12	9	T606	0.7	16	22	T708	0.3	17	14	T810	0.1	2	2	T912	1.6	24	19
T97	0.

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We acknowledge the Traditional Custodians of the lands
on which we work and pay respect to Elders past and present.