MEMORANDUM

Project:	5 Parkview Drive, Sydney Olympic Park – Flood Risk Assessment			Project No:	S18312
To:	Copy:	Name:	Organisation:	Facsimile:	
☒	☐	Alex Fil	Data Exchange		
☒	☐	Sedat Erol	Knight Frank Town Planning		
☐	☐				
From:	Josh Nadiroglu		Date: 27 November 2018	Total Pages:	40

Subject:	Flood Risk Assessment

If you do not receive all pages, or some are unclear, please advise immediately

Background

BG&E Pty Limited (BG&E) has been engaged by The Data Exchange Network (DXN) to prepare a Flood Risk Assessment to accompany a Development Application (DA) to be lodged with the Sydney Olympic Park Authority (SOPA), in support of the proposed works at 5 Parkview Drive, Sydney Olympic Park.

The proposed works consist of alterations and additions to the existing warehouse / office buildings at the site for use as a Data Centre and associated offices. The existing office areas of the building shall be refitted to cater for the requirements of the proposed Data Centre use. The existing warehouse shall be used as the server storage areas (the data hall). Prefabricated server containers shall be installed within the data hall, with chillers above. External plant proposed to be located outside the data hall (north-eastern corner of the building) includes up to eleven (11) cooling tower units to service the server containers, to be installed in stages. External plant proposed to be located within the south-western carpark of the site includes up to seven (7) backup power generators, to be installed in stages. Typically, there would be 10-15 staff members employed at the facility.

Figure 1 – Subject Site and Locality Plan (source: SIX Maps)

Sydney *Office*—

Level 2, 8 Windmill Street, Sydney NSW 2000
P / +61 2 9770 3300 *E* / info@bgeeng.com
bgeeng.com—

BG&E Pty Limited
ABN / 67 150 804 603

The proposed development works consists of:

- Up to 7 x Diesel Backup Generators, to be installed externally;
- Up to 11 x Cooling Tower Units, to be installed externally;
- General repair and upgrade works of the existing building, with the existing building footprint remaining the same.

A plan of the development prepared by POC+P architects is attached. (Attachment C).

This Flood Risk Assessment has been prepared by BG&E in support of the development application (DA) and:

- Describes flood behaviour in the vicinity of the site;
- Outlines SOPA requirements for flood risk management;
- Describes how the proposed development satisfies these conditions; and
- Recommends flood risk management measures.

Documentation relied upon

This Flood Impact Assessment has been based on the below information:

-Section 10.7 Certificate

Section 10.7 Certificate (formerly known as a Section 149 Certificate) issued by the City of Parramatta Council on 18 January 2018 (Attachment A).

-Topographical survey

Realserve Topographical Survey of the site. Date of survey 06/02/2018 (Attachment B).

-LiDAR data

Recent LiDAR data (dated 2013-04-11, Sydney, 2 km x 2 km tile, 1 metre Resolution) from ELVIS – Elevation and Depth Foundation Spatial Data has been used. The data used has an accuracy of 0.3 m (95% Confidence Interval) vertical and 0.8 m (95% Confidence Interval) horizontal. This data has been used for a general understanding of flood behaviour around the site.

-Architectural Drawings for DA application

Architectural drawings provided by POC+P architects dated as 19/11/2018 (Attachment C).

-Structural Drawings

Proposed layout and structural details of cooling towers and generators are provided by Pi Consulting dated as 26/10/2018 (Attachment D).

-Flood Study

SOPA has completed the "Review of Stormwater Impacts Bennelong Pond" (September, 2011) which defines the flooding in the vicinity of the project site. This report has been obtained from SOPA and has been used in this assessment. Flood Maps based on this study are provided in Attachment E.

Assumptions and limitations

The existing building extents/footprints remains the same and the proposed works has none-to-minimal interaction with the 100 year ARI flood extents, therefore it is believed that modelling is not required at this stage. This assessment is based on available information at the time of assessing the site constraints.

Flood Behaviour

Overland Flow

As noted above, SOPA's *Review of Stormwater Impacts Bennelong Pond (September, 2011)* defines the flooding in the vicinity of the project site.

Based on the SOPA flood report, the site is affected by the 100 year ARI overland flooding (including smaller ARIs, e.g. 5 year ARI). Two overland flow paths identified from flood mapping traverse the property lot. Existing baseline case 100 year ARI maximum flood depths and velocities have been overlayed with the proposed development layout in Attachment E.

The southern portion of the site is affected by the 100 year ARI overland flooding (Overland flow path-1) with maximum flood depths of 0.1-0.3 m, flood velocities up to 0.8 m/s as interpreted from the colour coding legend provided in the original maps (Figure 2).

Overland flow path-2 located at the north-eastern portion of the site with maximum flood depths of 0.1-0.2 m, flood velocities up to 0.5 m/s (Figure 2).

The SOPA flood report has used TUFLOW software for flood modelling which utilised a direct rainfall on grid approach within the study area with 1x1 m model cell size. This means that rainfall has been applied to every cell inside the model boundary. This approach might create localised artificial water ponding in several areas and usually requires refining of results to remove any localised artificial areas disconnected from main flow paths. The local ponding around the edge of the building perimeter is likely to be removed if model refining were to be applied. Also model results show a local ponding on the building, in TUFLOW approach buildings are usually blocked to allow flood water go around the perimeter. The building blocks might not be used or this is probably caused by automated filtering of LiDAR data (LiDAR data is usually processed/filtered to remove buildings, vegetation etc.). These localised areas are minor compared to the scale of the study and are unlikely to affect flood behaviour at the site or surrounding.

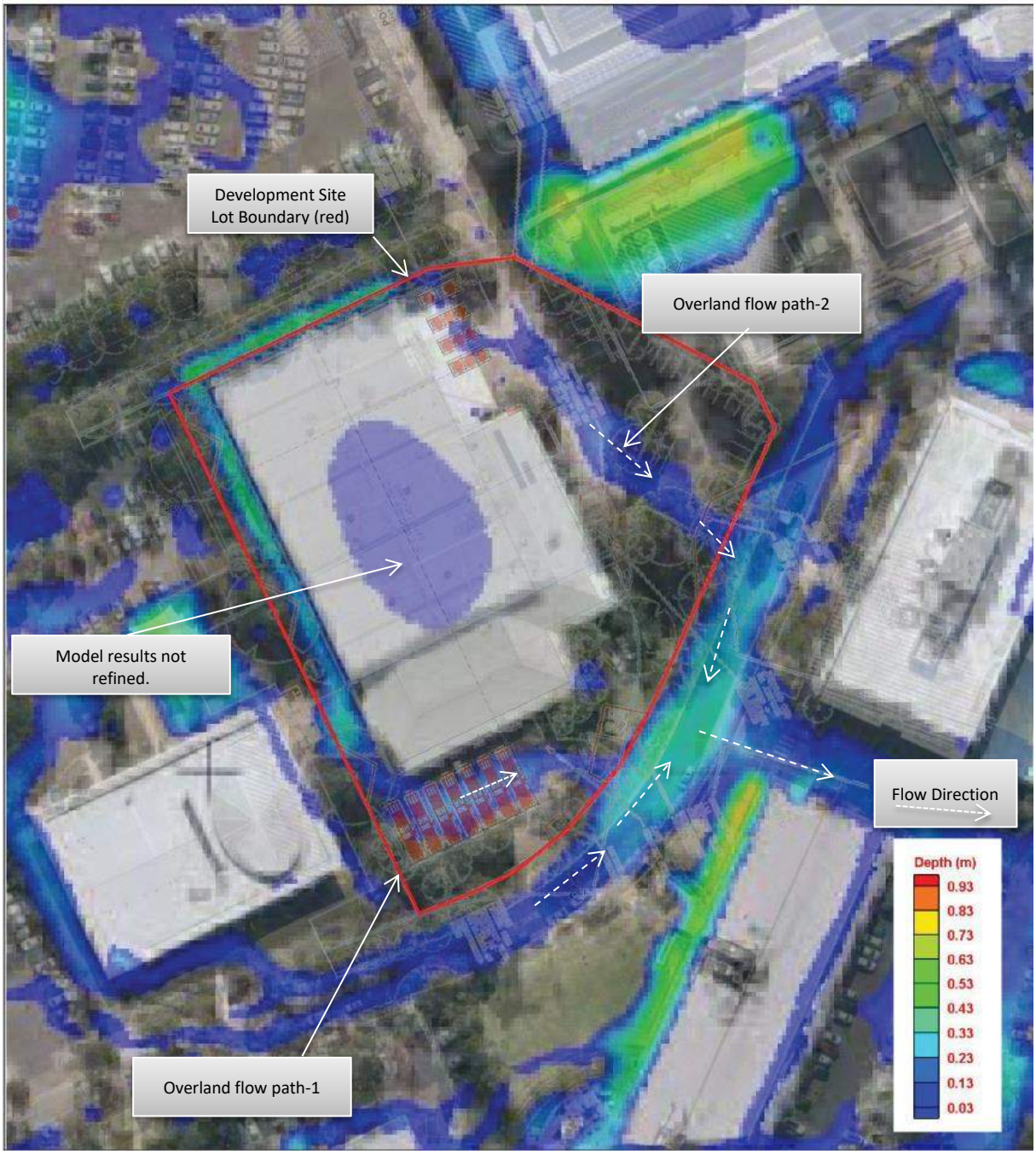


Figure 2 – Review of Stormwater Impacts Bennelong Pond (September, 2011) (source: SOPA)

Mainstream/River Flooding

SOPA directs flood certificate queries to Parramatta City Council, as the site is located within the Parramatta City Council Local Government Area. BG&E contacted Council to request any flood certificates for the site. Parramatta City Council officers informed BG&E that flood / drainage data is not available for this area in Council's database.

Lot boundary area (the site in Figure 3) is positioned at the top of the catchments draining to Parramatta River, Powells and Haslams Creeks based on topographical elevations of the site. The site elevation is located between 10 to 14 m AHD. Powells Creek, Haslams Creek and Parramatta River are further downstream of the site (Figure 3). Bennelong Pond which could be considered as being close to the site is still at lower levels (1-2 m AHD i.e. more than 10 m below the area of interest).

Based on the above information and limited Council data, BG&E assumes that the site is not affected by mainstream flooding.

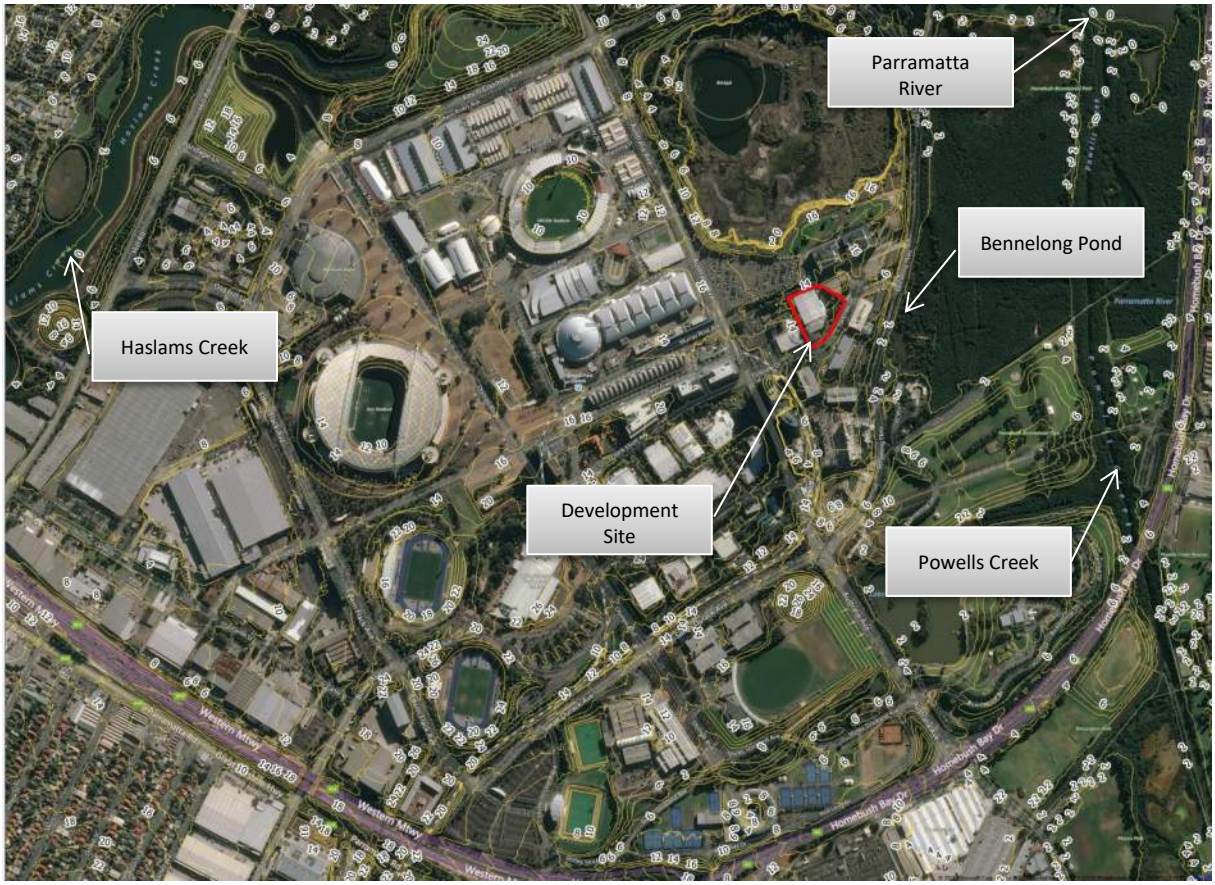


Figure 3: Creeks/watercourses surrounding site (Source: Bing Maps)

Sea Level Rise Scenarios

The Section 10.7 Certificate suggests to refer to projected sea level rise scenario maps provided on http://www.ozcoasts.org.au/climate/Map_images/Sydney/mapLevel2.jsp.

Climate change scenarios have been assessed and mapped by CoastAdapt which was developed by NCCARF (National Climate Change Adaptation Facility) with funding from the Australian Government through the Department of the Environment and Energy.

Based on these maps, the worst case climate change scenario is RCP8.5 (Representative Concentration Pathway – 8.5 implies very high concentration of greenhouse gases). During this worst case, the site is not affected by sea level rise (Figure 4).

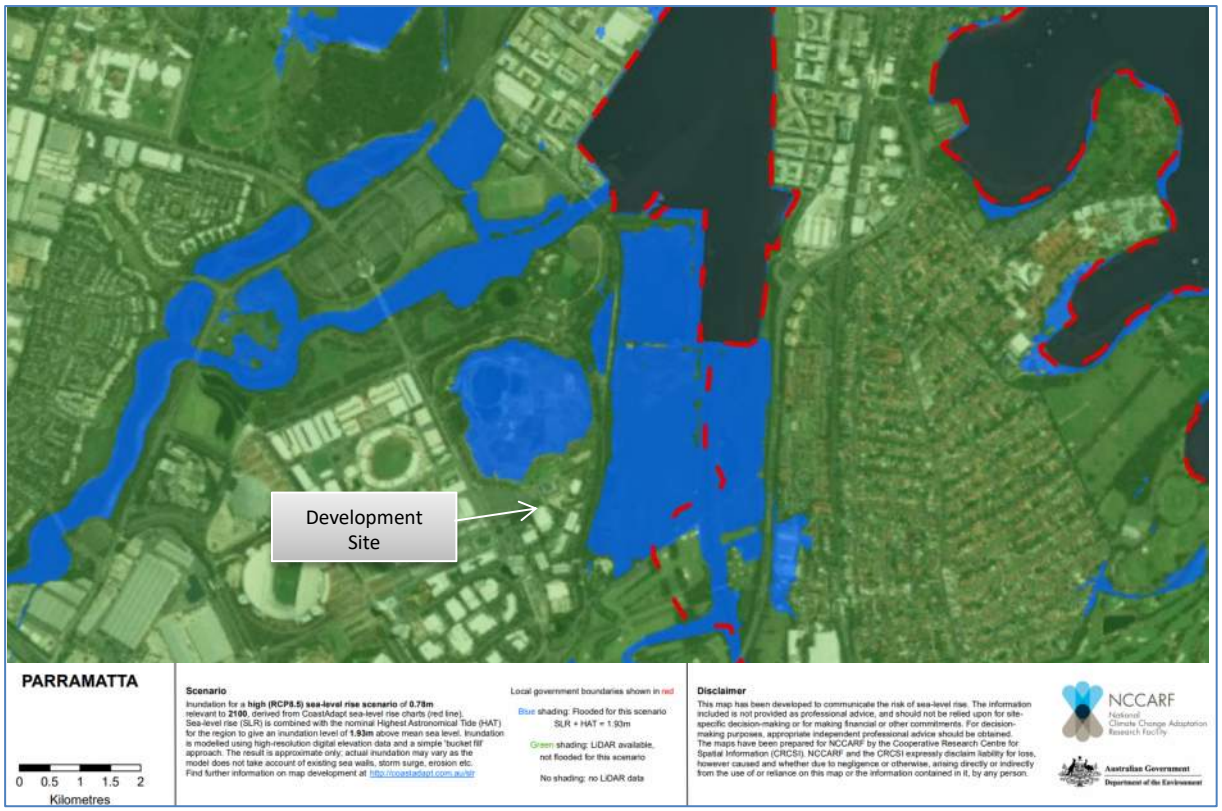


Figure 4: Sea Level Rise Map (RCP8.5-Worst Case Scenario)
Source: https://coastadapt.com.au/sites/default/files/inundation- maps/HIGH2100/Inundation_PARRAMATTA_HIGH2100_HAT_1.93.pdf

Flood Risk Management Policy and Flood Planning Levels

According to the section 10.7 Certificate provided for the site, there are no development control plans applying to the land. The *SOPA Master Plan 2030 (2018 Review)* applies to the site however, provides no flood related development controls.

The Section 10.7 Certificate of the site states that, Council has adopted a policy covering the entire City of Parramatta to restrict development of any land by reason of the likelihood of flooding. However, as Sydney Olympic Park was until 12 May 2016, within the former Auburn City Council Local Government Area (now Cumberland Council), we understand that this policy does not yet apply to properties previously located in neighbouring local Council areas.

SOPA Stormwater Management & Water Sensitive Urban Design Policy (October, 2016) sets out the requirements for stormwater management associated with development design. We understand that all development design and construction within SOPA has to comply with this policy.

- private developments which alters and/or adds more than 150 m^2 of impervious area and/or developments which result in an addition of gross floor area of more than 150m^2. The policy requirements are to be applied to the whole site area (BG&E interprets it is not applicable to this site).
- public infrastructure and public asset developments which alters and/or adds more than 150 m^2 of impervious area. The policy requirements for public Stormwater Management & Water Sensitive Design Policy October 2016 infrastructure and assets is to be applied to the area of altered or new assets only (BG&E interprets it is not applicable to this site).
- Developments smaller than those outlined above are still required to meet the intent of the policy. These developments are to adopt the principles outlined in the Sydney Olympic Park

Authority's Environmental Guidelines as well as water sensitive design principles. All works are to minimise runoff, maximise treatment of stormwater by directing stormwater to landscape based treatment systems, maximise capture and reuse of runoff and ensure there is no impact on receiving waters during construction.

The proposed alterations around the site do not add more than 150 m^2 of impervious areas and the existing building foot print remains unchanged.

As the policy states, all habitable floor levels should have 0.5 m above public drainage infrastructure, creeks and channels and 0.3 m above internal overland flow paths.

As outlined in Floodplain Development Manual (April, 2005) new development needs to be assessed to ensure it will not significantly impact on existing development, such as:

- blocking by fill of, or building on floodways;
- removing areas for flood storage within the floodplain, due to filling or levees; or
- increasing the amount of impervious area in a catchment which, without appropriate management, increases the overall volume and peak runoff from the area.

Flood risk management

The two overland flow paths traversing the site have been mapped with proposed works outside the existing building (Figure 5 & Attachment E).

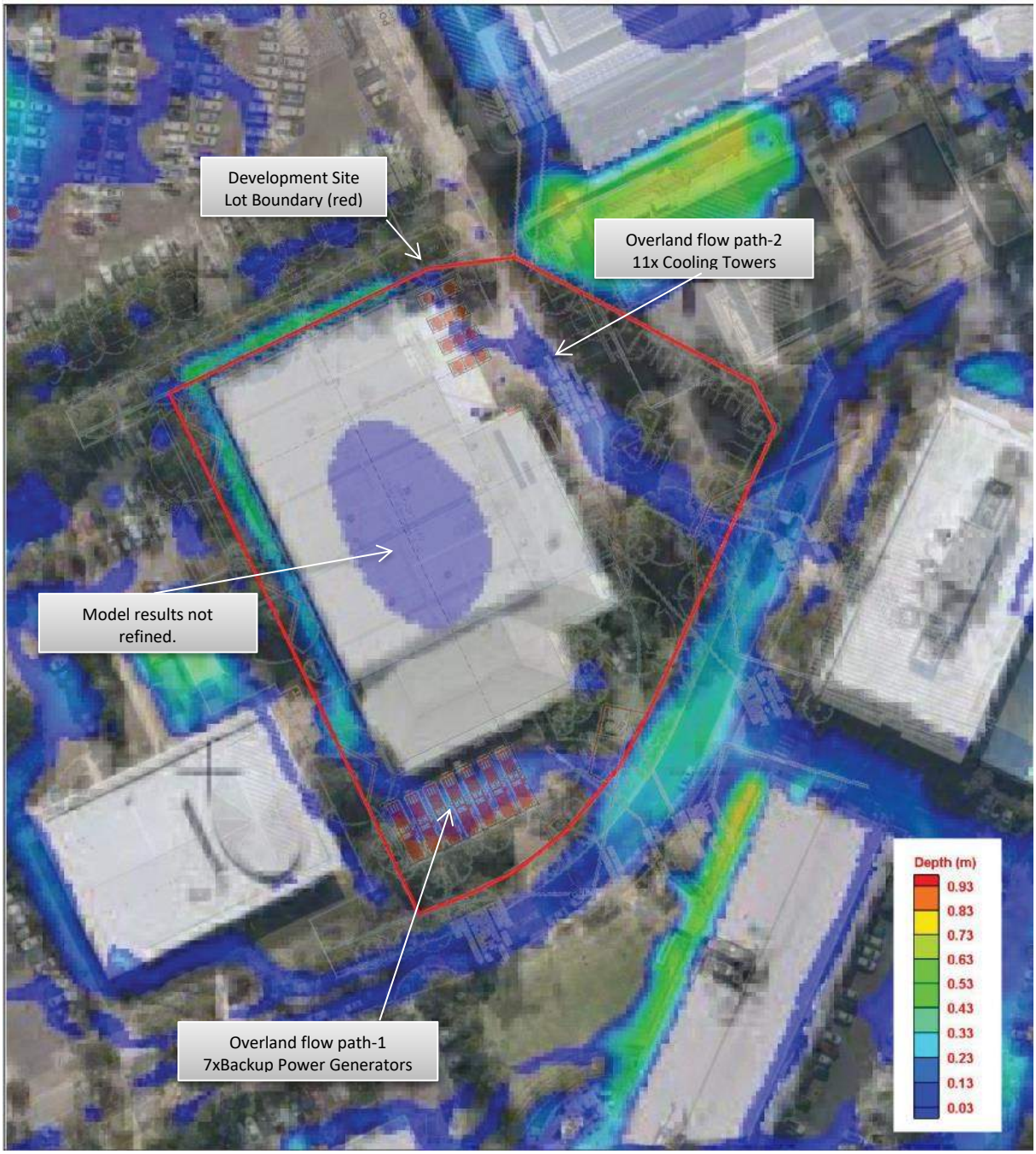


Figure 5 – Overland Flow Paths affecting the site
Review of Stormwater Impacts Bennelong Pond (September, 2011) (source: SOPA)

- **Backup Power Generators**

Up to 7 x Backup Power Generators proposed at the southern portion of the site (Overland flow path-1) are to be placed on a concrete foundation. Proposed layout and foundation details provided in Attachment D.

This foundation design would allow the flood waters to flow through between the concrete foundations without diverting the flood waters elsewhere or adversely altering flood storage. The foundations are to be located outside the overland flow area. The top of the concrete foundation shall be at 13.60 m AHD in all sections. Existing ground levels vary from 12.2 to 12.8 m AHD. The

flood depths at this location are 0.1 to 0.3 m. The top of concrete foundation will provide a freeboard of at least 0.5 m above the 100 year ARI flood level. According to SOPA requirements, 0.5 m of freeboard is required above public drainage infrastructure.

The proposed walkway (perforated cable tray) is to be located at 13.60 m AHD level. Perforated cable tray stairs will also allow floodwaters to flow through with minimum disturbance.

The site is only affected by local overland flooding, therefore rare flood events - greater than the 100 year ARI event (such as 200, 500 year ARIs or Probable Maximum Flood) are likely to be contained within the 0.5 m freeboard.

The existing ground level surface will be kept unchanged and stormwater network in this area (100 mm to 300 mm pipes as shown on drawings) including the pits will be kept as existing.

- **Cooling Towers**

Up to 11 x Cooling Towers proposed at the north-eastern portion of the site (Overland flow path-2) are also to be placed on foundations. The cooling towers are to be mounted approximately 3.4 m above the ground level. The overland flow depths at this location are around 0.2 m and the existing ground levels are between 13.1 -13.4 m AHD, the cooling towers located approximately at 16.4 m AHD which is above the 100 year ARI flood level and provides more than 0.5 m of freeboard. The cooling towers consist of a steel panel tank that is located under each cooling tower. The plinth height above the concrete foundation would be 0.25 m which means the steel panel tanks would be above the 100 year flood level.

The cooling towers have minimal interaction with the 100 year ARI flood extent. The area of interaction is 9 m^2 and volume of flood removed by this interaction is likely to be 2.7 m^3 (0.3 x 9). This amount of loss in flood storage interpreted as negligible would not change the flood regime and hydraulics.

- **Fencing**

The boundary fencing proposed around the development area are of a palisade design to avoid blocking the flood waters and to allow for water to flow through the site. Fencing details are provided in Attachment C – Architectural drawings.

Flood Modelling Results – Flood Levels

The southern end of the site is affected by overland flooding with depths of 0.1 m – 0.3 m, flood velocities up to 0.8 m/s. The north-eastern portion of the site where the generators are sitting would be affected by overland flooding with depths up to 0.1 m – 0.2 m, flood velocities up to 0.5 m/s.

Conclusion

- The proposed external equipment works at the site have been designed to be above the 100 year ARI flood level plus 0.5 m freeboard.
- The proposed fencing has adopted palisade design to avoid blocking the flood waters.
- The proposed works within the existing overland flow paths at the site would not adversely interact with existing flood extent, and provide a permeable support to raise the external equipment to allow floodwater to pass through the site.

Enclosed:

- Attachment- A- Section 10.7 certificate (formerly known as Section 149)
- Attachment- B Topographical survey
- Attachment- C Architectural Drawings
- Attachment- D Structural Drawings
- Attachment- E 100 year ARI - Flood Maps

MEMORANDUM

ATTACHMENT A

Section 10.7 certificate

PLANNING CERTIFICATE

CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979 as amended

Certificate No: 2018/251

Fee: $133.00

Issue Date: 18 January 2018

Receipt No: 5146044

Applicant Ref: 541838.01:79354

DESCRIPTION OF LAND

Address: 5 Parkview Drive
SYDNEY OLYMPIC PARK NSW 2127

Lot Details: Lot 70 DP 818981

SECTION A

The following Environmental Planning Instrument to which this certificate relates applies to the land:

State Environmental Planning Policy (State Significant Precincts) 2005.

For the purpose of **Section 149(2)** it is advised that as the date of this certificate the abovementioned land is affected by the matters referred to as follows:

City of Parramatta Council ABN 49 907 174 773
126 Church Street, Parramatta PO Box 32, Parramatta NSW 2124
P 02 9806 5050 F 02 9806 5917 www.cityofparramatta.nsw.gov.au

The land is zoned: MD SEPP (State Significant Precincts) 2005

State Environmental Planning Policy (State Significant Precincts) 2005
The land is excluded land under Auburn Local Environmental Plan 2010. The land zoning and land use provisions of State Environmental Planning Policy (State Significant Precincts) 2005 apply to the land.

The State Environmental Planning Policy (State Significant Precincts) 2005 may be obtained via the internet from www.legislation.nsw.gov.au or by contacting NSW Department of Planning.

SECTION B
State Policies and Regional Environmental Plans
The land is affected by State Environmental Planning Policies and Regional Environmental Plans as detailed in Annexure "B1".

Draft Local Environmental Plan
The land is not affected by a Draft Local Environmental Plan which has been placed on Public Exhibition and has not yet been published.

Development Control Plan
There are no development control plans applying to the land.

The Minister for Planning has issued directions that provisions of an EPI do not apply to certain Part 4 development where a concept plan has been approved under Part 3A.

Development Contribution Plan
The land is not affected by the Auburn Council Development Contributions Plan 2007.

Heritage Item/Heritage Conservation Area
The land has not been identified as containing an item of environmental heritage significance under the provisions of State Environmental Planning Policy (State Significant Precincts) 2005.

The land is not located within a Heritage Conservation Area under the provisions of State Environmental Planning Policy (State Significant Precincts) 2005.

The land is located within an Environmental Conservation Area under the provisions of State Environmental Planning Policy (State Significant Precincts) 2005.

Road Widening
The land is not affected by road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993.
(b) Any Environmental Planning Instrument.
(c) Any Resolution of Council.

Land Reservation Acquisition
The land is not affected by Land Reservation Acquisition in the State Environmental Planning Policy (State Significant Precincts) 2005.

Site Compatibility Certificate (Seniors Housing, Infrastructure and Affordable Rental Housing)At the date of issue of this certificate Council is not aware of any

a. Site compatibility certificate (affordable rental housing),
a. Site compatibility certificate (infrastructure) or site compatibility certificate (schools or TAFE establishments),
b. Site compatibility certificate (seniors housing)

in respect to the land issued pursuant to the Environmental Planning & Assessment Amendment (Site Compatibility Certificates) Regulation 2009 (NSW).

Contamination
The land is not affected by any of the matters contained in Clause 59(2) as amended in the Contaminated Land Management Act 1997 – as listed

(a) that the land to which the certificate relates is significantly contaminated land
(b) that the land to which the certificate relates is subject to a management order
(c) that the land to which the certificate relates is the subject of an approved voluntary management proposal
(d) that the land to which the certificate relates is subject to an ongoing maintenance order

The land is affected by the matters contained in Clause 59(2) (e) as amended in the Contaminated Land Management Act 1997 – as listed.

Council has been furnished with a site audit statement by a site auditor in relation to this site and advises:
(e) that the land to which the certificate relates is the subject of a site audit statement

Tree Preservation
The land is excluded land under Auburn Local Environmental Plan 2010 and the applicant should refer to State Environmental Planning Policy (State Significant Precincts) 2005 on www.legislation.nsw.gov.au.

Council has not been notified of an order under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.

Coastal Protection
The land is not affected by Section 38 or 39 of the Coastal Protection Act 1979.

Has an order been made under Part 4D of the Coastal Protection Act 1979 in relation to temporary coastal protection works (within the meaning of the Act) on the land (or on public land adjacent to that land)?
NO

Has Council been notified under section 55x of the Coastal Protection Act 1979 that temporary coastal protection works (within the meaning of the Act) have been placed on the land (or on public land adjacent to that land)?
NO

Has the owner (or any previous owner) of the land been consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act)?
NO

Council Policy
The land is excluded land under Auburn Local Environmental Plan 2010 and the applicant should refer to State Environmental Planning Policy (State Significant Precincts) 2005 on www.legislation.nsw.gov.au.

The land is not affected by a policy that has been adopted by Council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence or any other risk.

Council has adopted a policy covering the entire City of Parramatta to restrict development of any land by reason of the likelihood of flooding.

Council has adopted by resolution a policy on contaminated land that applies to all land within the City of Parramatta. The Policy will restrict the development of the land if the circumstances set out in the policy prevail. A copy of the policy is available on Councils website at www.cityofparramatta.nsw.gov.au or from the Customer Service Centre

Council has not been notified of any policies adopted by other public authorities that restrict development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence or other risk.

Council has been notified that the Department of Planning has adopted the New South Wales Coastal Planning Guideline: Adapting to Sea Level Rise (August 2010). The guideline can be viewed at www.planning.nsw.gov.au.

The applicant should also refer to projected sea level rise low, medium and high scenario maps on
http://www.ozcoasts.org.au/climate/Map_images/Sydney/mapLevel2.jsp for further information.

Mine Subsidence
The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District.

Bushfire Land
The land is not bushfire prone land.

Threatened Species
The Environment Agency Head with responsibility for the Biodiversity Conservation Act 2017 has not advised Council that the land includes or comprises an area of outstanding biodiversity value.

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

This does not constitute a Complying Development Certificate under section 85 of the EP&A Act

This information only addresses matters raised in **Clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1)(c3) and 1.19** of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

It is your responsibility to ensure that you comply with the general requirements of the State Environmental Planning Policy (Exempt and Complying Codes) 2008. Failure to comply with these provisions may mean that a Complying Development Certificate issued under the provisions of State Environmental Planning Policy (Exempt and Complying Codes) 2008 is invalid.

3. Complying Development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

Housing Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Rural Housing Code

(1) or (2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Housing Alterations Code and Industrial Alterations Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

General Development Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Commercial and Industrial (New Buildings and Additions) Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Subdivisions Code

(1) or (2)
Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Demolition Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Fire Services Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

Container Recycling Facilities Code

(1) or
(2) Refer to State Environmental Planning Policy (State Significant Precincts) 2005.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

(3) Council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land when a land based restriction applies to the land, but it may not apply to all of the land.

SPECIAL NOTES

The land is excluded land under Auburn Local Environmental Plan 2010 and the applicant should refer to State Environmental Planning Policy (State Significant Precincts) 2005 on www.legislation.nsw.gov.au.

Applicants for Sections 149 Certificates are advised that Council does not hold sufficient information to fully detail the effect of any encumbrances on the title of the subject land. The information available to Council is provided on the basis that neither Council nor its servants hold out advice or warrant to you in any way its accuracy, nor shall Council or its servants, be liable for any negligence in the preparation of that information. Further information should be sought from relevant Statutory Departments.

SECTION C
The following additional information is issued under Section 149(5)
Pursuant to S149(5) the Council supplies information as set out below on the basis that the Council takes no responsibility for the accuracy of the information. The information if material should be independently checked by the applicant.

The land is located within Sydney Olympic Park and is affected by the Sydney Olympic Park Authority Act, 2001.

This information is based on data available to the Council. It is provided on the basis that neither Council nor its servants hold out advice or warrant to you in any way its accuracy, nor shall the Council or its servants, be liable for any negligence in the preparation of that information.

Note: Advisory Information regarding Loose-Fill asbestos Insulation
Research undertaken by the Loose-Fill Asbestos Insulation Taskforce has determined that there is a potential for loose-fill asbestos insulation to be found in residential dwellings constructed prior to 1980 in 28 local government areas including the City of Parramatta.

Some residential homes located in the City of Parramatta may contain loose-fill asbestos insulation, for example in the roof space. NSW Fair Trading maintains a Register of homes that are affected by loose-fill asbestos insulation.

You should make your own enquiries as to the age of the buildings on the land to which this certificate relates and, if it contains a building constructed prior to 1980, the council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants.

Please Contact NSW Fair Trading for further information.

This information has been provided pursuant to section 149(5) of the Environmental Planning and Assessment Act, 1979 as amended.

ANNEXURE "B1"

Issued pursuant to Section 149 of the Environmental Planning and Assessment Act 1979. Note:The following information is supplied in respect of Section 149 and embodies the requirements of Department of Planning Circular No. A2 dated 17 March 1989 and the Ministerial Notification dated 15 December 1986.

STATE ENVIRONMENTAL PLANNING POLICY NO.1 - Development Standards

STATE ENVIRONMENTAL PLANNING POLICY NO.19 - Bushland in Urban Areas

STATE ENVIRONMENTAL PLANNING POLICY NO.21 – Caravan Parks

STATE ENVIRONMENTAL PLANNING POLICY NO. 30 - Intensive Agriculture

STATE ENVIRONMENTAL PLANNING POLICY NO.33 - Hazardous and Offensive Development

STATE ENVIRONMENTAL PLANNING POLICY NO. 50—Canal Estate Development

STATE ENVIRONMENTAL PLANNING POLICY NO.55 - Remediation of Land

STATE ENVIRONMENTAL PLANNING POLICY NO. 62—Sustainable Aquaculture

STATE ENVIRONMENTAL PLANNING POLICY NO.64 - Advertising and Signage

STATE ENVIRONMENTAL PLANNING POLICY NO.65 – Design Quality of Residential Flat Development.

STATE ENVIRONMENTAL PLANNING POLICY NO.70 – Affordable Housing (Revised Schemes)

STATE ENVIRONMENTAL PLANNING POLICY – (Housing for Seniors or People with a Disability) 2004

STATE ENVIRONMENTAL PLANNING POLICY – (Building Sustainability Index: BASIX) 2004

STATE ENVIRONMENTAL PLANNING POLICY – (State Significant Precincts) 2005

STATE ENVIRONMENTAL PLANNING POLICY – (Mining, Petroleum Production and Extractive Industries) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Miscellaneous Consent Provisions) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Infrastructure) 2007

STATE ENVIRONMENTAL PLANNING POLICY (Exempt and Complying Development Codes) 2008

STATE ENVIRONMENTAL PLANNING POLICY (Affordable Rental Housing) 2009

STATE ENVIRONMENTAL PLANNING POLICY (State and Regional Development) 2011

STATE ENVIRONMENTAL PLANNING POLICY (Vegetation in Non-Rural Areas) 2017

STATE ENVIRONMENTAL PLANNING POLICY (Educational Establishments and Child Care Facilities) 2017

SYDNEY REGIONAL ENVIRONMENTAL PLAN – (Sydney Harbour Catchment) 2005

DRAFT STATE ENVIRONMENTAL PLANNING POLICY (Competition) 2010

DRAFT STATE ENVIRONMENTAL PLANNING POLICY TO AMEND STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006 – Amendment to include the Greater Parramatta Priority Growth Area as a Growth Centre

DRAFT STATE ENVIRONMENTAL PLANNING POLICY– Environment

N.B. All enquiries as to the application of Draft, State and Regional Environmental Planning Policies should be directed to The Department of Planning and Infrastructure – 23-33 Bridge Street Sydney NSW 2000.

Greg Dyer
Chief Executive Officer

per

dated 18 January 2018

ATTACHMENT B

Topographical survey

GENERAL NOTES

THESE NOTES ARE AN INTEGRAL PART OF THIS PLAN. THE INFORMATION SHOWN ON THIS PLAN OR IN THE ASSOCIATED CAD FILE IS SUPPLIED ON THE CONDITION THAT THESE GENERAL NOTES ARE ALWAYS SHOWN\KEPT ON ANY COPY OR EXTRACT OF THE HARD COPY\DATA FILE.

LEVELS ARE BASED ON AUSTRALIAN HEIGHT DATUM (AHD) THE ORIGIN OF WHICH IS SSM 125313 RL 10.118 AHD (SOURCE: SCIMS 06-02-18).

CONTOURS HAVE BEEN INTERPOLATED FROM SPOT HEIGHTS TAKEN AND ARE AN APPROXIMATION OF THE TOPOGRAPHY.

THE BOUNDARIES AS SHOWN HAVE BEEN ESTABLISHED FROM SURVEY MEASUREMENTS TO MARKS & MONUMENTS RECORDED ON EXISTING REGISTERED SURVEY PLANS OF THE SUBJECT & ADJOINING LANDS & REPRESENT TITLE DIMENSIONS.

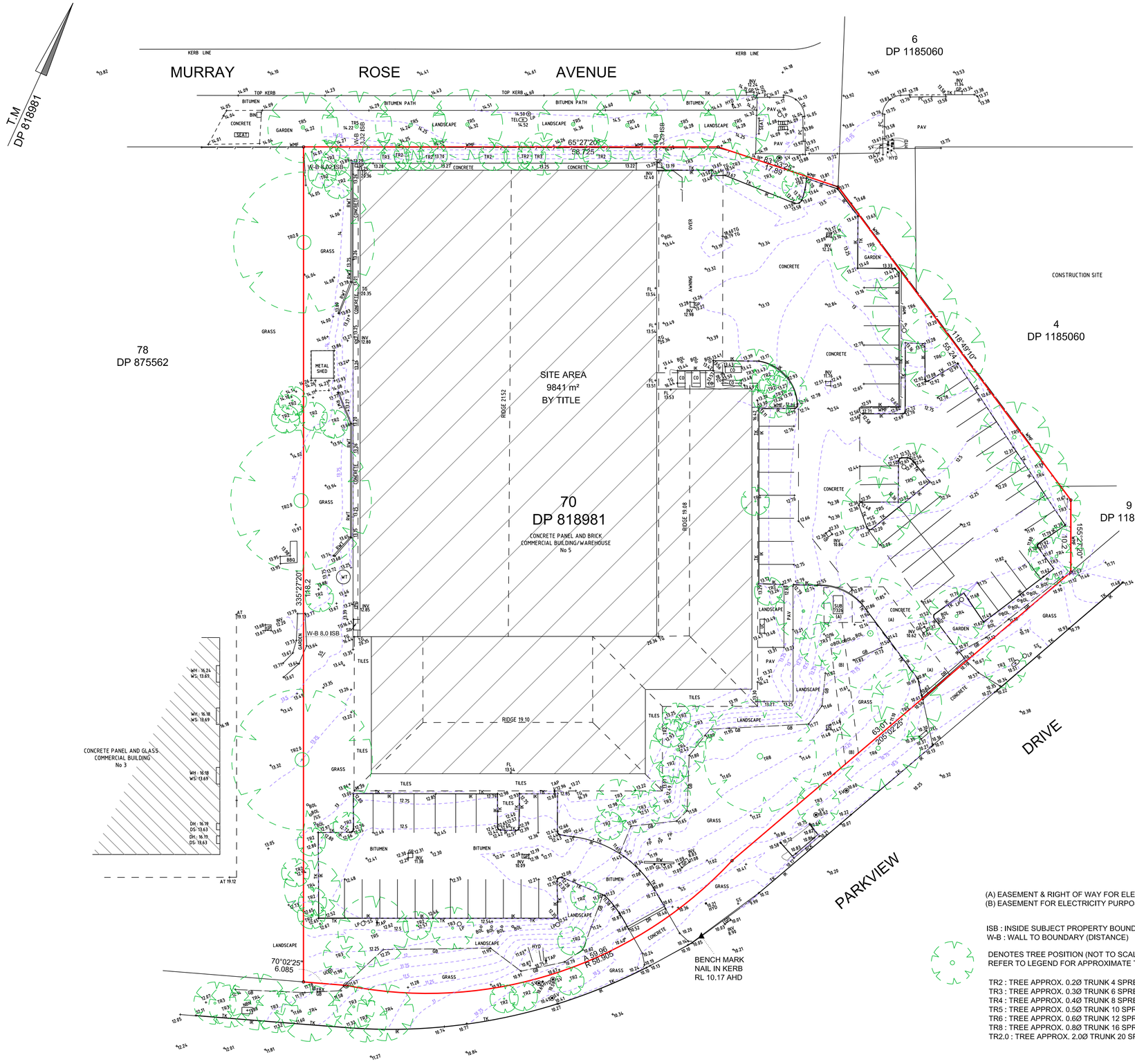
THE BOUNDARIES SHOULD BE MARKED &/OR SURVEY SETOUT MARKS PLACED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORK, PARTICULARLY IF BOUNDARY SETBACKS ARE CRITICAL.

THE LOCATION OF EASEMENTS HAVE BEEN COMPILED & PLOTTED FROM PLANS & RECORDS OBTAINED FROM N.S.W LRS.

THE LOCATION OF ADJOINING BUILDING FEATURES HAVE BEEN OBTAINED WHERE VISIBLE FROM THE SUBJECT PROPERTY. ANY ADDITIONAL INFORMATION REQUIRED IS SUBJECT TO ADDITIONAL SURVEY & ACCESS BEING GRANTED TO ADJOINING PROPERTIES.

THE LOCATION & LEVELS OF BUILDING RIDGES AND ROOF FEATURES HAVE BEEN DETERMINED BY INDIRECT METHODS (WHERE VISIBLE) & ACCURATE TO APPROXIMATELY +/- 0.02m.

THE RECORDS OF THE SERVICE AUTHORITIES HAVE NOT BEEN INVESTIGATED. ONLY THOSE SERVICES VISIBLE / APPARENT AT THE TIME OF SURVEY HAVE BEEN SHOWN.



SCHEDULE ABBREVIATIONS

AT - AWNING TOP
BOL - BOLLARD
BBQ - BARBEQUE AREA
BG - BOOM GATE
CO - CONCRETE / PAD
DR - DRAIN
DS - DOOR SILL / THRESHOLD
DT - DOOR TOP
DR - DRAIN
EBX - ELECTRICITY BOX
FL - FLOOR LEVEL
FP - FLAG POLE
GB - GARDEN BORDER
GLT - GROUND LIGHT
GP - GRATED PIT
IK - INVERT OF KERB
INV - INVERT
LP - LIGHT POLE
NBN - NATIONAL BROADBAND PIT
PAV - PAVERS
PC - PEDESTRIAN CROSSING
RCK - ROCK RETAINING WALL
RW - RENDERED WALL
RWT - RETAINING WALL TOP
SS - STREET SIGN
SUB - SUBSTATION
SP - STANDING PLATFORM
SV - STOP VALVE
TEL - TELSTRA PIT
TG - TOP GUTTER HEIGHT (APPROX)
TK - TOP OF KERB
UC - UNKNOWN PIT / SERVICE
WMF - WIRE MESH FENCE
WH - WINDOW HEAD
WS - WINDOW SILL
WT - WATER TANK

(A) EASEMENT & RIGHT OF WAY FOR ELECTRICTY PURPOSES (VIDE DEALING U930283)
(B) EASEMENT FOR ELECTRICITY PURPOSES 2 WIDE (VIDE DEALING U930283)

ISB : INSIDE SUBJECT PROPERTY BOUNDARY
W-B : WALL TO BOUNDARY (DISTANCE)

DENOTES TREE POSITION (NOT TO SCALE).
REFER TO LEGEND FOR APPROXIMATE TREE SIZE.

TR2 : TREE APPROX. 0.2Ø TRUNK 4 SPREAD & HEIGHT
TR3 : TREE APPROX. 0.3Ø TRUNK 6 SPREAD & HEIGHT
TR4 : TREE APPROX. 0.4Ø TRUNK 8 SPREAD & HEIGHT
TR5 : TREE APPROX. 0.5Ø TRUNK 10 SPREAD & HEIGHT
TR6 : TREE APPROX. 0.6Ø TRUNK 12 SPREAD & HEIGHT
TR8 : TREE APPROX. 0.8Ø TRUNK 16 SPREAD & HEIGHT
TR2.0 : TREE APPROX. 2.0Ø TRUNK 20 SPREAD & HEIGHT

David McCulloch
Registered surveyor (Surveyor ID: 125)

0 5 10 20
SCALE 1:300

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DATE	REV	COMMENTS

PLAN PREPARED FOR:

J GODDARD & CO PTY LTD

DATUM : A.H.D	SCALE : 1:300 @ A1; 1: 600 @ A3	DATE : 06-02-2018
ORIGIN OF LEVELS : SSM 125313	LOCALITY : SYDNEY OLYMPIC PARK	SURVEY : MM
CONTOUR INTERVAL : 0.25 m	L.G.A. : PARRAMATTA	DRAWN : MM
SHEET No. 1 OF 1	REF : 66226MM	CHECKED : AK

DESCRIPTION:

PLAN OF IDENTIFICATION SURVEY AND SELECT FEATURES & LEVELS

LOT 70 IN DP 818981
No. 5, PARKVIEW DRIVE, SYDNEY OLYMPIC PARK, NSW

ATTACHMENT C

Architectural Drawings

SGI AUSTRALIA

ROOF BARRIER SUBJECT TO CDC CONSENT

CARPARK

B 12

NEW GENERATORS x7 INSTALLED IN STAGES WITH ACOUSTIC AND VISUAL SCREEN

W DRIVE

A 10

5–7 PARKVIEW DRIVE DATA EXCHANGE

MURRAY ROSE AVENUE

UPGRADE SPRINKLER

LOADING BAY

VG01

NEW LOADING BAY

NEW KIOSK SUBSTATIONS AUSGRID NOTE: GRATED PIT RELOCATION?

GEN. + RECYCLING WASTE BINS

NEW EVAPORATIVE COOLERS x11 INSTALLED IN STAGES

CARPARK

Shared area with a single bollard of 1300mm height As per diagram AS2890.6

VG03

NEW ACCESS DRIVEWAY + KERB + GUTTER

ACCESSIBLE ACCESS WAY + SCREEN SUBJECT TO CDC CONSENT

PARKVIEW DRIVE

PG01

VG02

NEW SLIDING VEHICLE GATE

NEW 2.4M HIGH SECURITY PERIMETER FENCE

BUILDING IDENTIFICATION PANEL

AUSTRALIAN COLLEGE OF PHYSICAL EDUCATION

DEVELOPMENT 4 MURRAY ROSE

LION

LEGEND

SOPA 2030 MASTER PLAN BNDRY

PROPOSED WORKS

FOR DA DRAFT
FOR DISCUSSION ONLY

Notes
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Drawings are to be read in conjunction with all contract documents.
Use figured dimensions only. Do not scale from drawings.
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The completion of the issue details checked and authorised section is confirmation of the status of the drawing. The drawing shall not be used for construction purposes unless endorsed "For Construction" and authorised accordingly.

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patrick@pocp.com.au
ACN 086 693 781

PROJECT
5–7 PARKVIEW DRIVE, SYDNEY OLYMPIC PARK, NSW 2127

DRAWING TITLE
SITE PLAN PROPOSED

SCALE
1:500 @ A3

CHECKED/AUTHORISED
Nominated Architect :
Patrick O'Carrigan FRAIA NSWARB # 5025
INITIAL/SIGNATURE

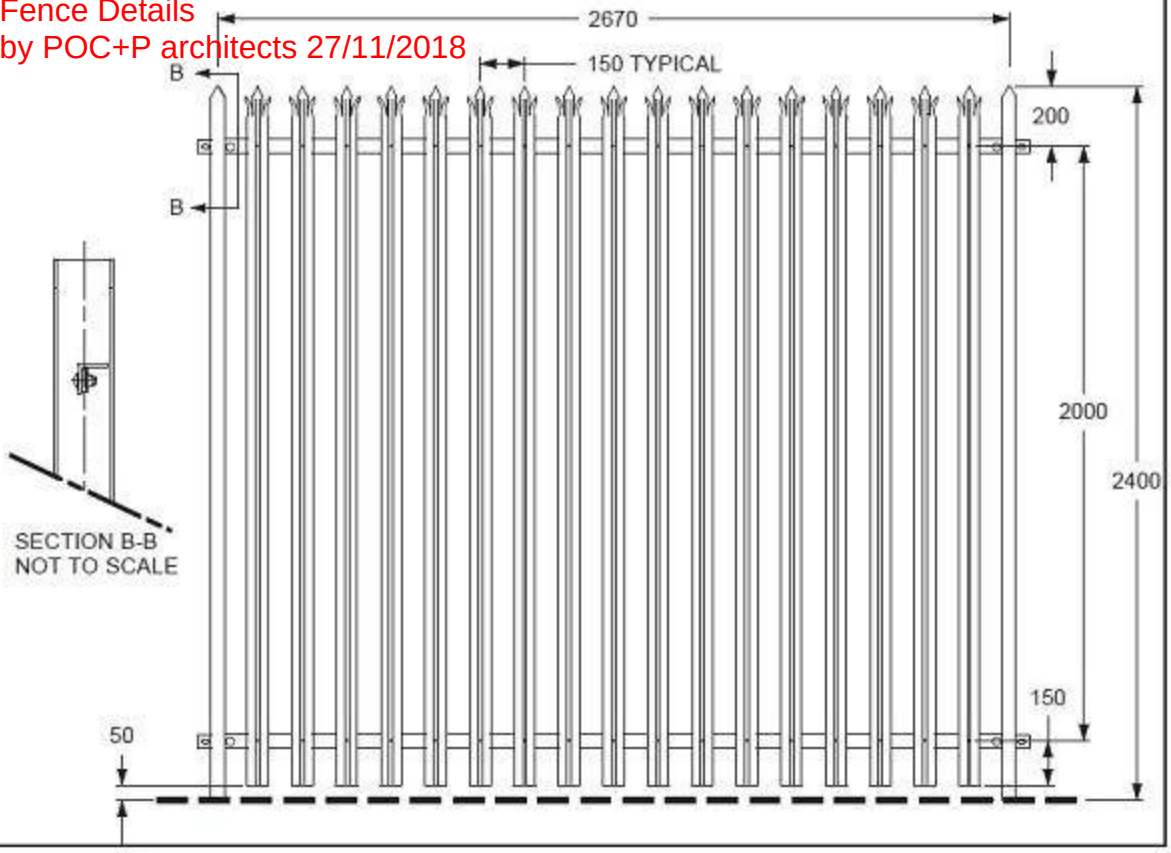
NORTH
TN

REVISIONS

ISSUE	DESCRIPTION	DATE
E	FOR DA TO SOPA	
D	FOR CONSULTANTS	19/11/2018
C	FOR DA REVIEW	02/10/2018
B	FOR PRE–DA	18/09/2018
A	PRELIMINARY	13/09/2018

PLOT DATE 20/11/2018
DRAWN EF
PROJECT NO. 171102
ISSUE D
DRAWING NO. 06

Fence Details
by POC+P architects 27/11/2018



ATTACHMENT D

Structural Drawings

DXN-S1: 5 PARKVIEW DRIVE

STRUCTURAL ARRANGEMENT

Drawing	Drawing Title	Revision	Date
009	COOLING TOWER DETAILS & SECTIONS PART 2	A	26/10/18
008	COOLING TOWER DETAILS & SECTIONS PART 1	A	26/10/18
007	COOLING TOWER ARRAGEMENT & LAYOUTS	A	26/10/18
006	GENERATOR CANOPY STRUCTURE	B	26/10/18
005	GENERATOR WALKWAY & STEEL DETAILS	C	26/10/18
004	GENERATOR CONCRETE DETAILS & SECTIONS	C	26/10/18
003	GENERATOR LAYOUT & ARRANGEMENT	C	26/10/18
002	PROPOSED LAYOUTS & STRUCTURAL SCOPE	B	26/10/18
001	EXISTING SITE LOCATION	A	26/10/18
000	TITLE PAGE	C	26/10/18

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Drawn	SP	OCT '18
Designed	SP	OCT '18
Checked	AP	OCT '18
CPEng Approval	AP	OCT '18

Signature

Client THE DATA EXCHANGE NETWORK

Scale AS SHOWN A3

DATA EXCHANGE
BEST BUILT TO SERVICE THE FUTURE

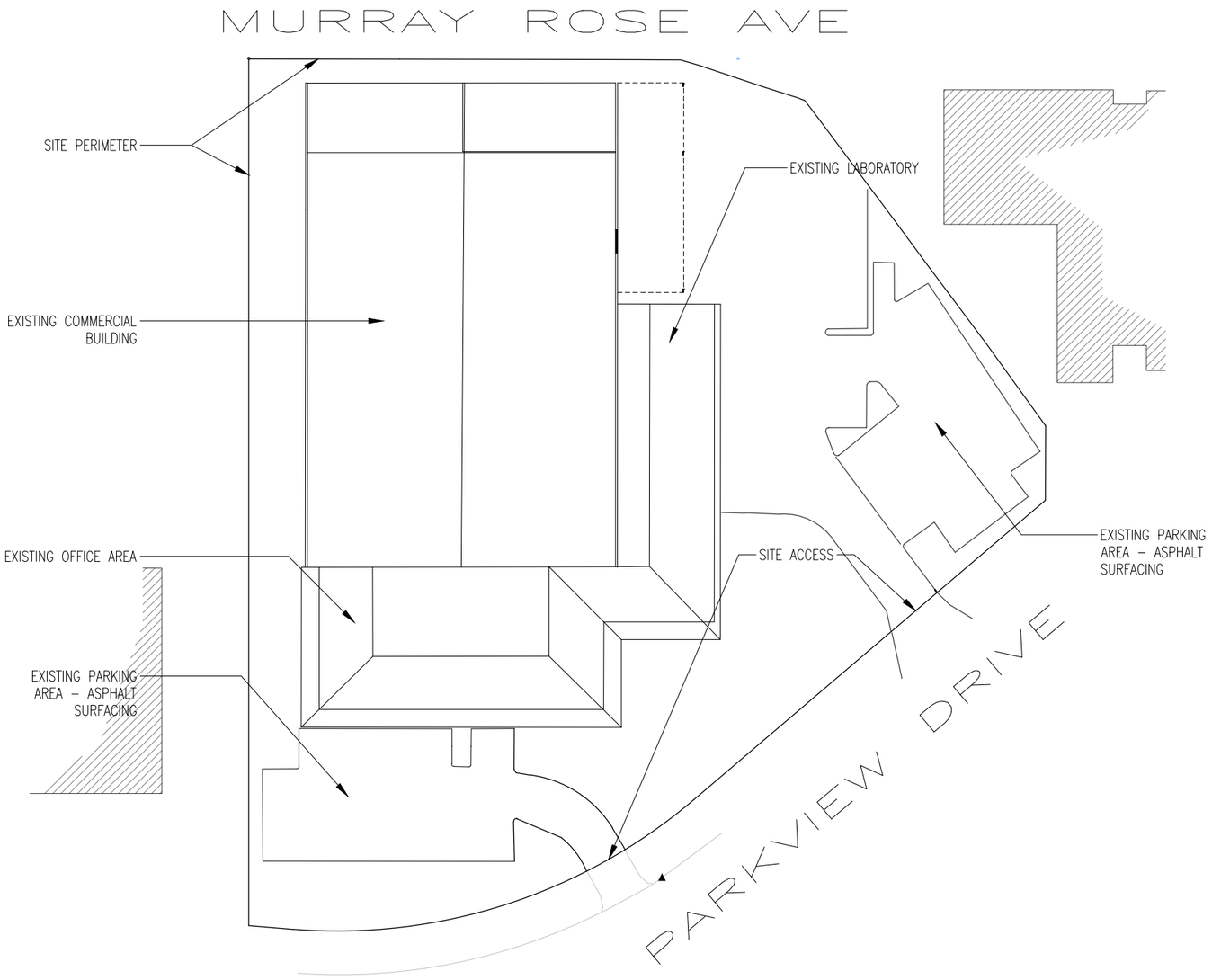
NOTE:

CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE
DO NOT SCALE THESE DRAWINGS

Project STRUCTURAL ARRANGEMENT
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

Drawing No
S001-00-000

Revision C



EXISTING LAYOUT

NTS

N

SITE LOCATION

NTS

NOTE:
- FOR SITE SURVEY SEE REALSERVE SURVEY DRAWINGS
- FOR DETAILED EXISTING SITE PLAN AND PROPOSED WORKS SEE POC–P ARCHITECTURAL LAYOUTS

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PLAN OF IDENTIFICATION SURVEY – REALSERVE	6.02.2018	A	FOR DISCUSSION	SP	OCT'18	SP
Reference Drawings		Rev.	Revision	Name	Date	Approved

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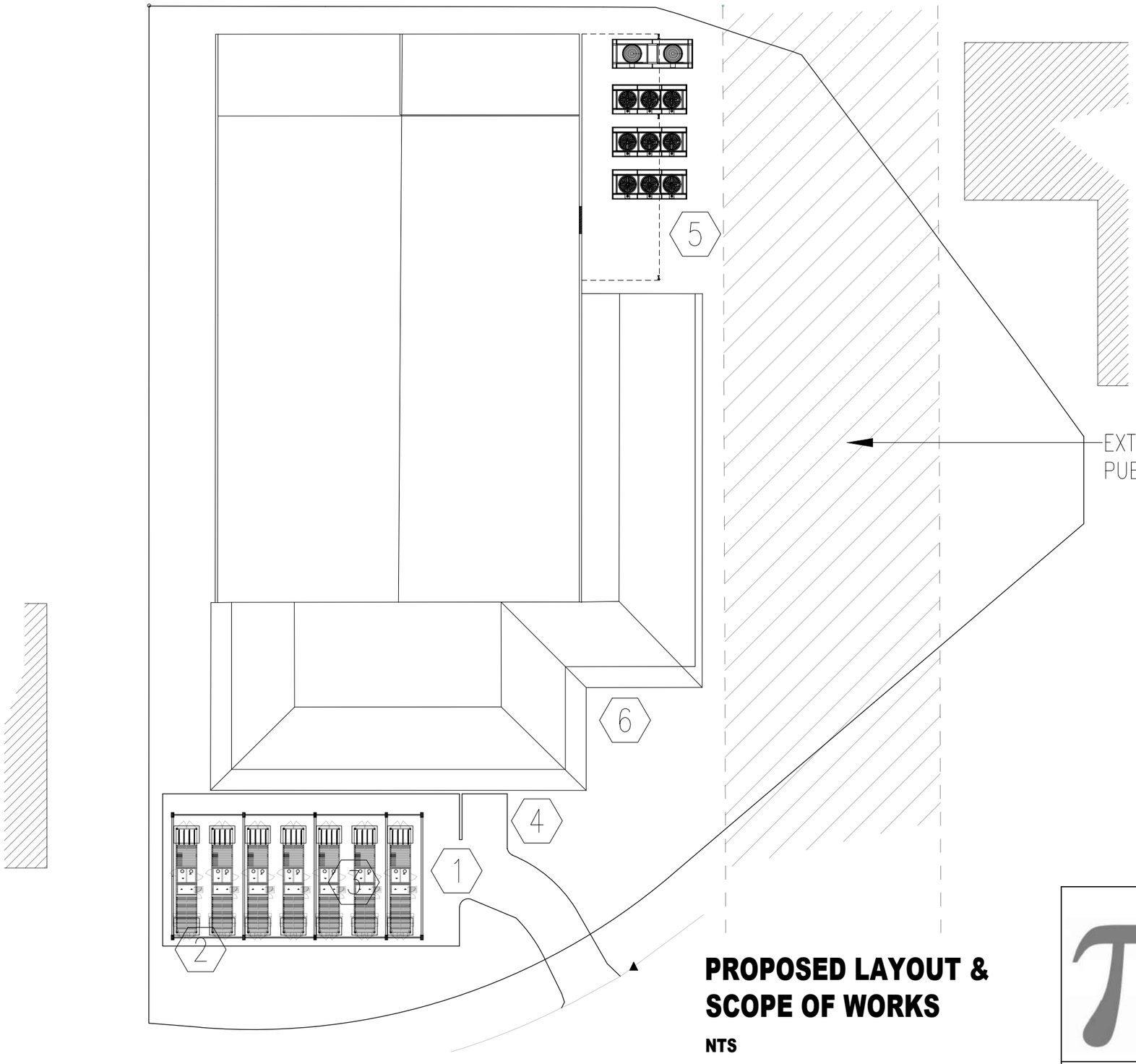
Project DXN-S1
5 PARKVIEW DR
SYDNEY OLYMPIC PARK
AUSTRALIA

Drawing No S001-00-001

Revision A



SCOPE OF WORKS		
NO	DESCRIPTION	DRAWING REFERENCE
1	EXTERNAL CONCRETE PAVEMENT	S001-00-003, 004
2	NEW GENERATORS & FOUNDATIONS	S001-00-003, 004, 005
3	NEW GENERATOR CANOPY ENCLOSURE	S001-00-006
4	NEW LOADING BAY AND ACCESS ROAD	S001-00-003, 004
5	COOLING TOWERS STRUCTURE & FOUNDATIONS	S001-00-007, 008, 009
6	NEW CONCRETE PERIMETER WALKWAY	S001-00-010

NOTE:
- FOR SITE SURVEY SEE REALSERVE SURVEY DRAWINGS
- FOR DETAILED EXISTING SITE PLAN AND PROPOSED WORKS SEE POC-P ARCHITECTURAL LAYOUTS

PROPOSED LAYOUT & SCOPE OF WORKS

NTS

Reference Drawings		Rev.	Revision	Name	Date	Approved
.	.	.	.	.	.	.
.	.	.	.	.	.	.
		.	.	.	.	.
.	.	B	DRAWING REVISED	SP	NOV'18	SP
PLAN OF IDENTIFICATION SURVEY – REALSERVE	6.02.2018	A	FOR DISCUSSION	SP	OCT'18	SP

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Project DXN-S1
5 PARKVIEW DR
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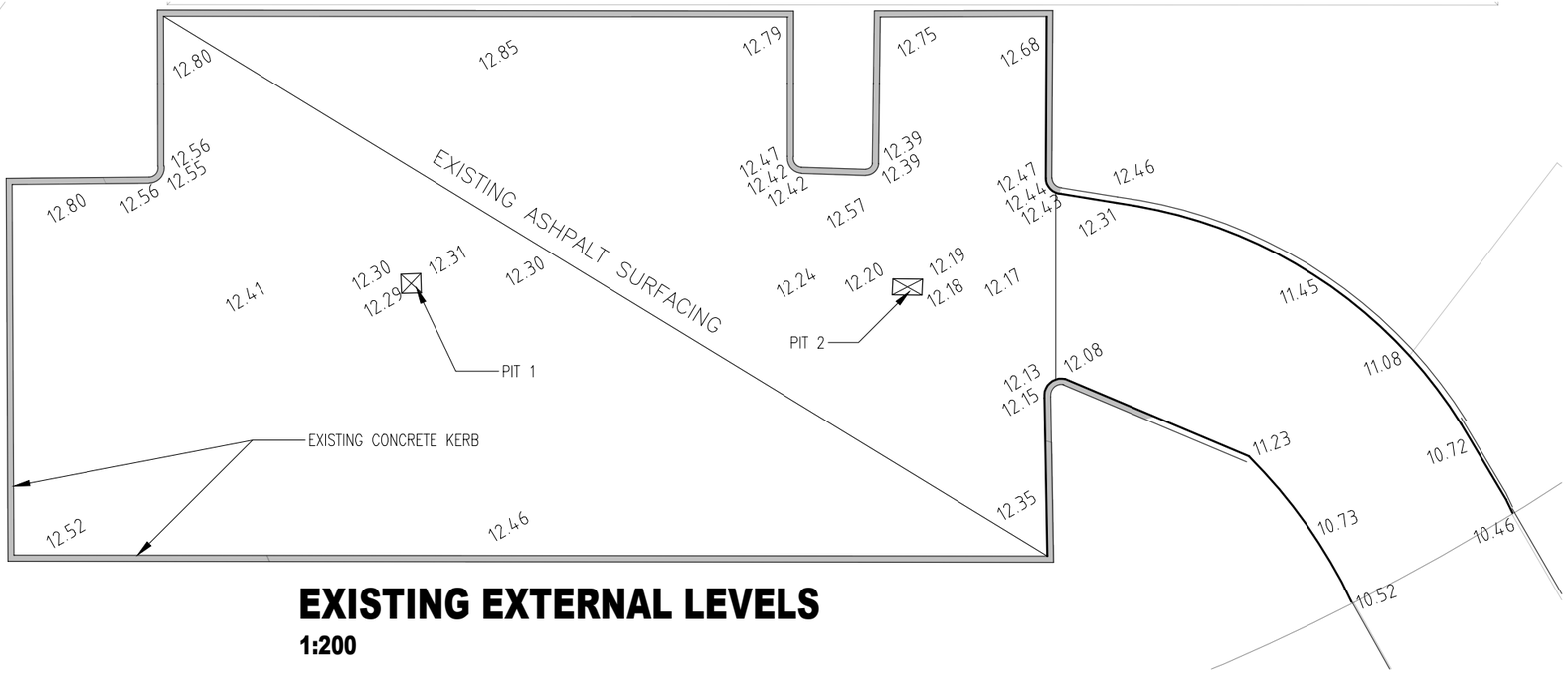
Drawing No S001-00-002

Revision B

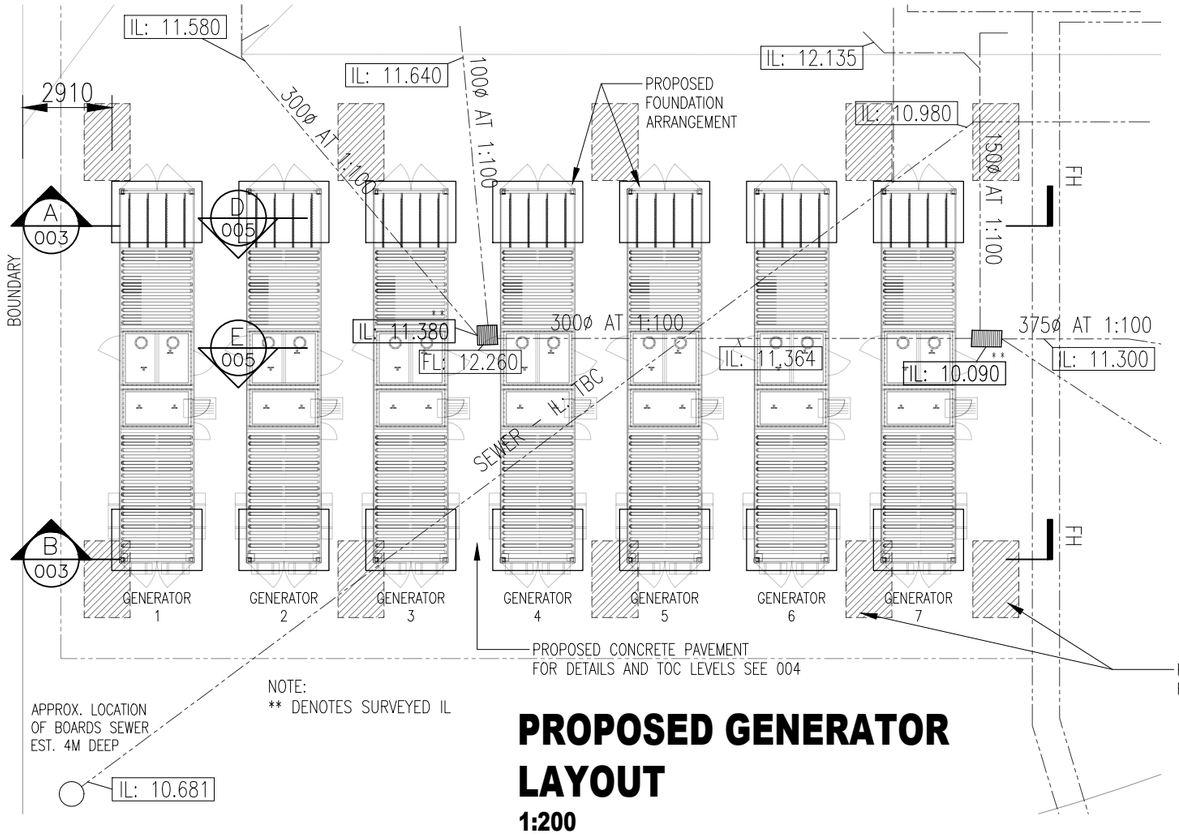


EXISTING EXTERNAL LEVELS

1:200

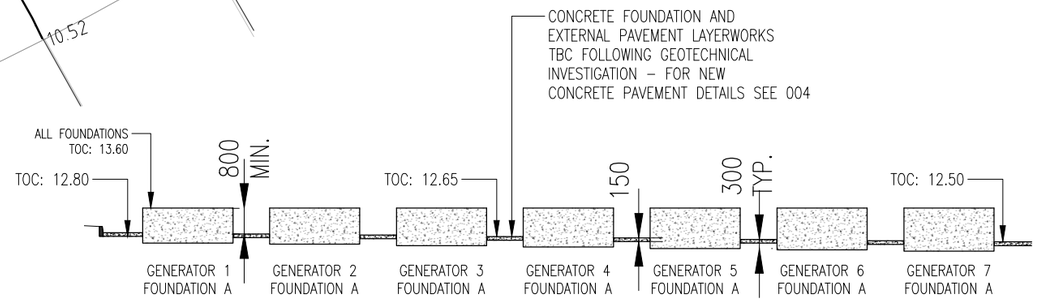
NOTE:

- GENERATORS NOT SHOWN IN SECTION A & B FOR CLARITY
- STEEL WALKWAY & SUPPORTS NOT SHOWN IN SECTION A & B FOR CLARITY
- NEW GENERATOR CANOPY NOT SHOWN FOR CLARITY
- FOR GENERATOR FOUNDATION LAYOUT AND DEPTHS SEE 004
- EXISTING TOC LEVELS AS PER REALSERV SURVEY DATE: 6/2/18
- FOR PROPOSED CONCRETE PAVEMENT LEVELS SEE 004
- ALL FOUNDATION TOC MINIMUM 800 ABOVE PAVEMENT TOC
- FINAL FOUNDING CONDITIONS TO BE CONFIRMED BY GEOTECH ENGINEER
- LOCATION AND DEPTH OF EXISTING SERVICES TO BE CONFIRMED ON SITE PRIOR TO EXCAVATIONS



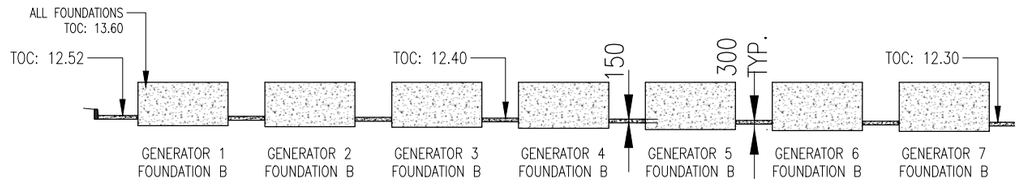
PROPOSED GENERATOR LAYOUT

1:200



SECTION A-A (003)

1:200



SECTION B-B (003)

1:200

Reference Drawings		Rev.	Revision	Name	Date	Approved
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.		C	PLINTH LOCATIONS REVISED	SP	NOV'18	SP
REALSERV SITE SURVEY	06/02/2018	B	REVISED FOR DISCUSSION	SP	NOV'18	SP
HYDRAULIC SERVICES SITE PLAN AS INSTALLED	133270-H-02	A	FOR DISCUSSION	SP	OCT'18	SP

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Designed	SP	OCT'18
Checked	SP	OCT'18
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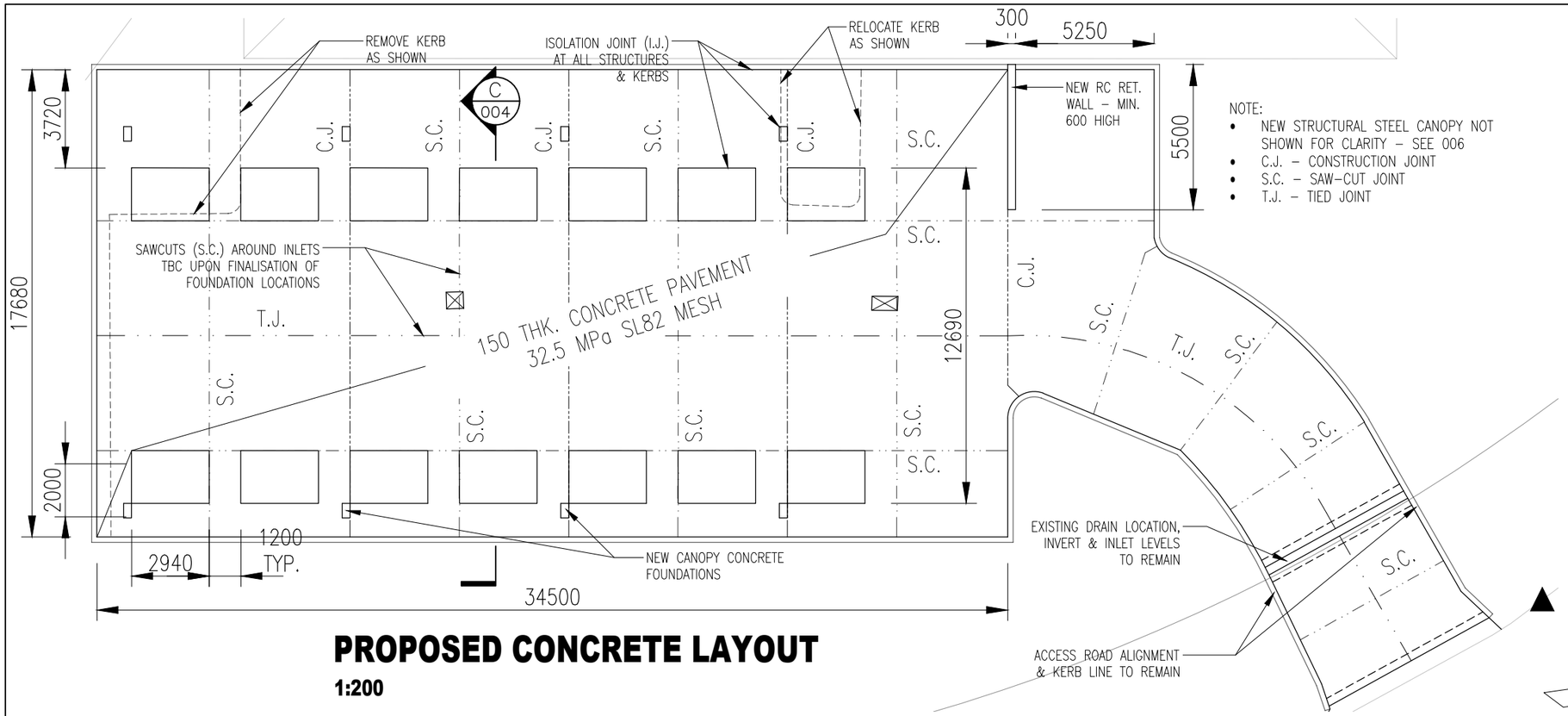
Scale AS SHOWN A3

Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

Drawing No S001-00-003

Revision C



PROPOSED CONCRETE LAYOUT

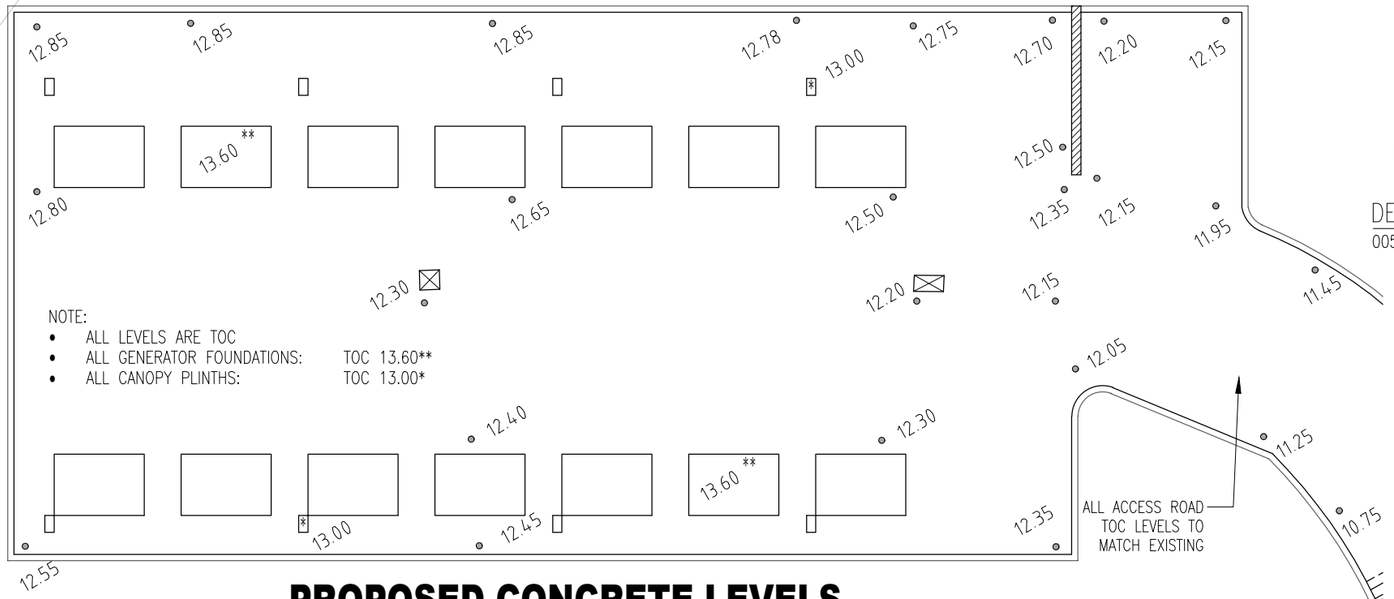
1:200

NOTE:
- NEW STRUCTURAL STEEL CANOPY NOT SHOWN FOR CLARITY – SEE 006
- C.J. – CONSTRUCTION JOINT
- S.C. – SAW–CUT JOINT
- T.J. – TIED JOINT

NOTE:
- GENERATOR PLINTH AND CANOPY FOUNDATION S.O.P. TBC BY SURVEYOR
- FOR STEEL WALKWAY DETAILS SEE 005
- FOR STRUCTURAL STEEL SUPPORT DETAILS SEE 005
- ALL CONCRETE FOUNDATIONS FOUNDED 300 BELOW PAVEMENT TOC LEVEL – FOUNDATION LAYERWORKS TBC BY GEOTECHNICAL INVESTIGATION
- ALL STRUCTURAL STEEL TO BE HD GALVANISED
- SCREEN AND ACOUSTIC BARRIERS FINAL LAYOUT, TYPE AND EXTENT TBC
- FOR CANOPY LAYOUT & DETAILS SEE 006
- NEW EXTERNAL CONCRETE PAVEMENT SURFACE LEVELS TO MATCH EXISTING
- FALLS TO MATCH EXISTING DRAINAGE

GENERATOR FOUNDATION HEIGHTS

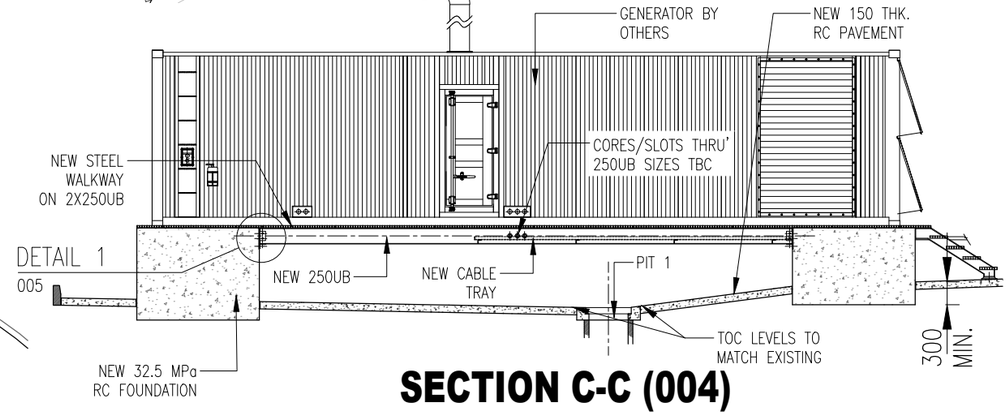
GEN.	A	B
1	1140	1410
2	1175	1450
3	1225	1470
4	1270	1500
5	1320	1540
6	1360	1570
7	1400	1600



NOTE:
- ALL LEVELS ARE TOC
- ALL GENERATOR FOUNDATIONS: TOC 13.60**
- ALL CANOPY PLINTHS: TOC 13.00*

PROPOSED CONCRETE LEVELS

1:200



SECTION C-C (004)

1:100

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.	.	.	.	.	.	.
.		C	LOADING BAYS ADDED	SP	NOV'18	SP
REALSERV SITE SURVEY	06/02/2018	B	GENERATOR CANOPY DETAILS ADDED	SP	NOV'18	SP
HYDRAULIC SERVICES SITE PLAN AS INSTALLED	133270–H–02	A	FOR DISCUSSION	SP	OCT'18	SP
Reference Drawings		Rev.	Revision	Name	Date	Approved

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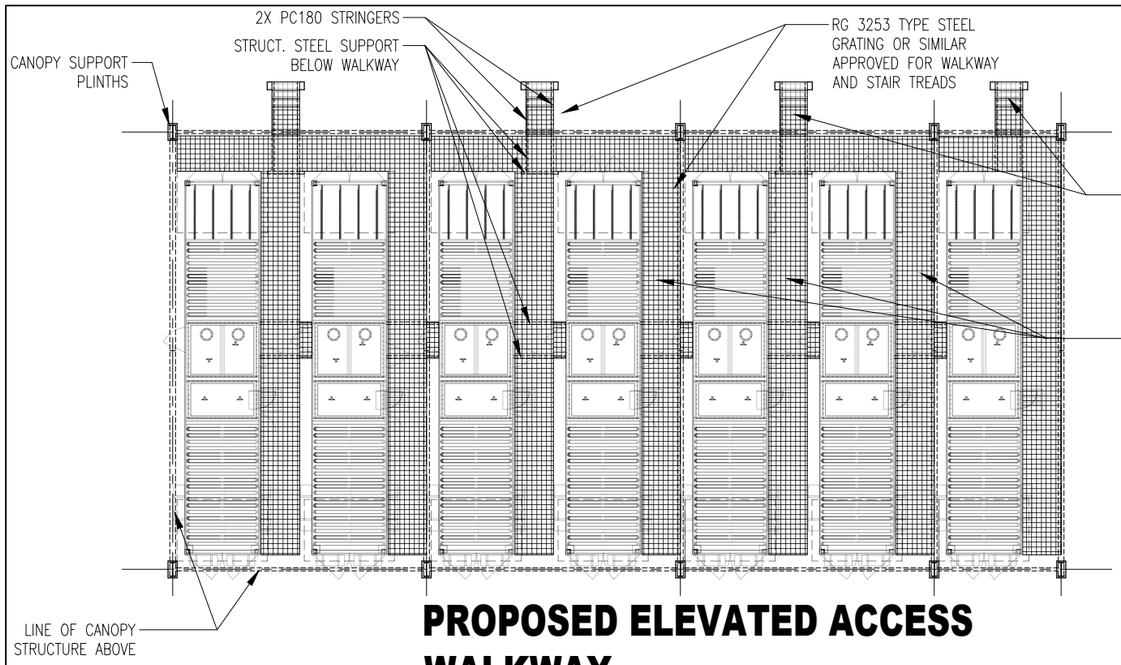
Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

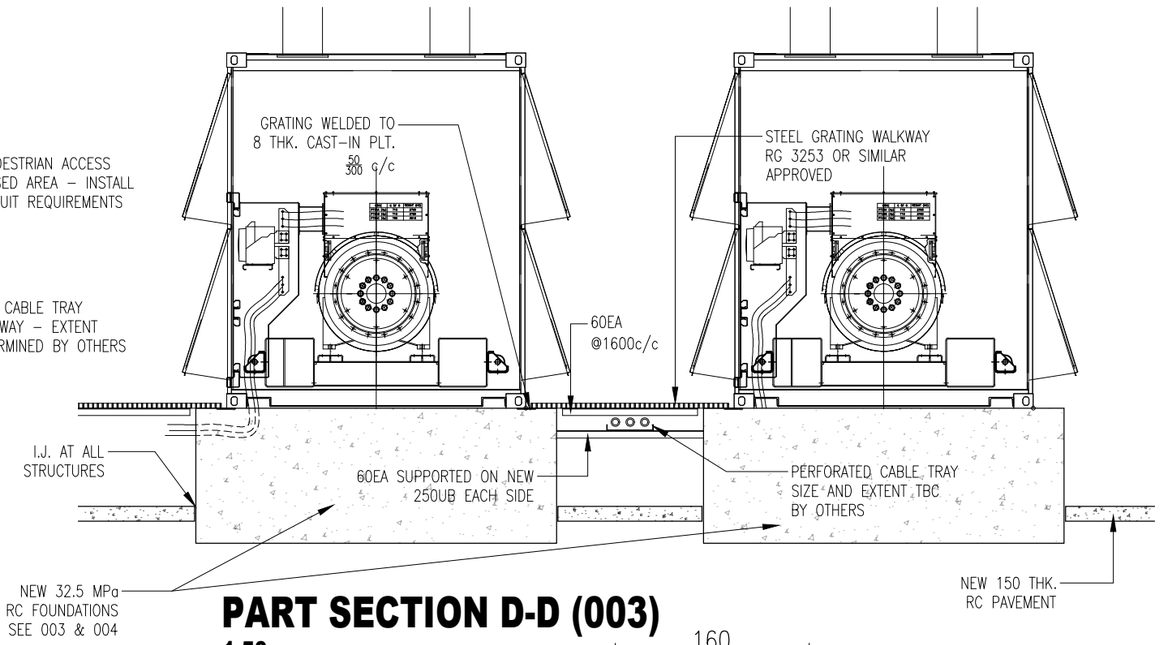
Drawing No S001-00-004

Revision C



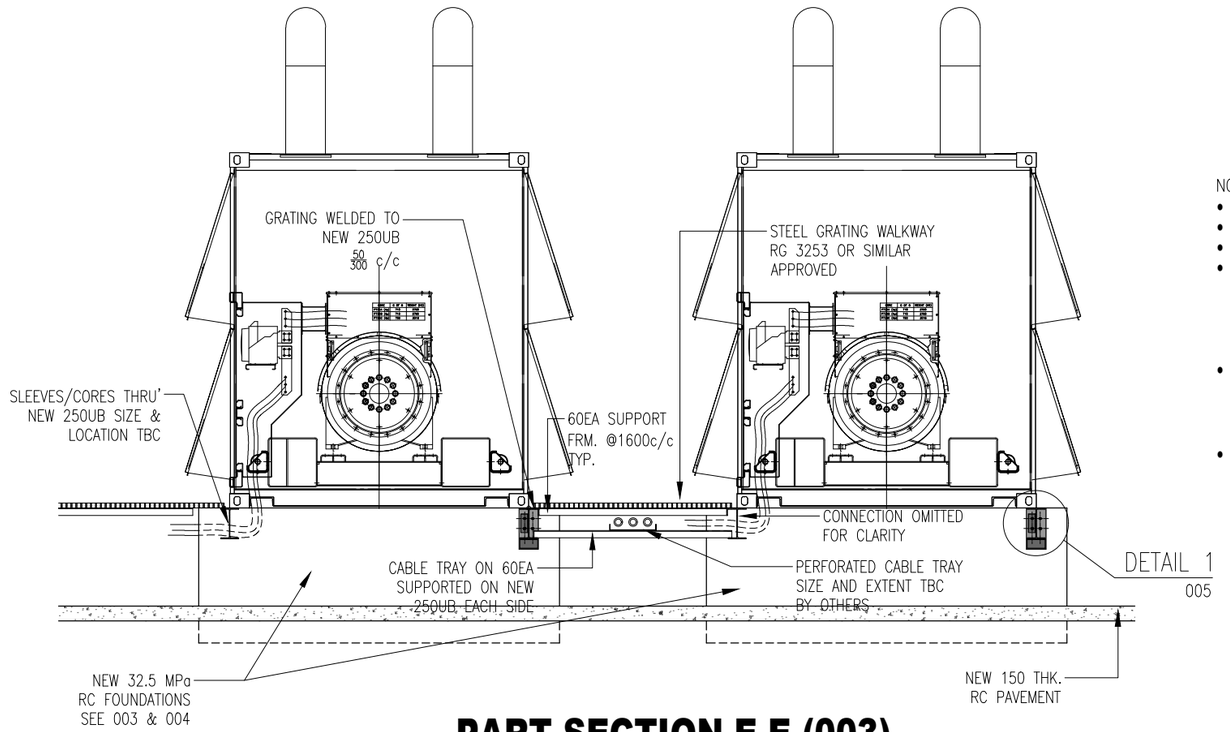
PROPOSED ELEVATED ACCESS WALKWAY

1:200



PART SECTION D-D (003)

1:50

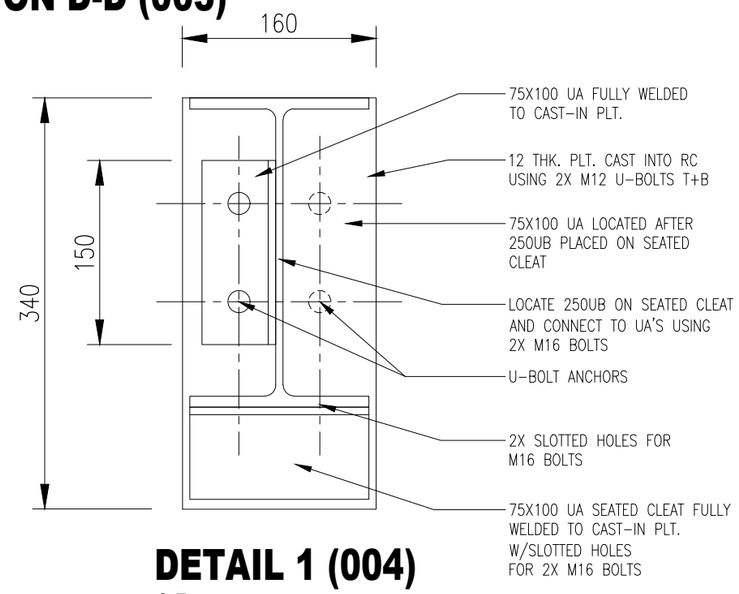


PART SECTION E-E (003)

1:50

NOTE:

- ALL STEEL TO BE HD GALVANISED
- ALL BOLTS GRADE 8.8
- ALL WELDS MINIMUM 6mm
- 250UB SUPPORT BEAMS TO BE LOCATED ON SEATED CLEATS AND AGAINST CAST-IN PLT & WELDED ANGLE – PLACE 2ND UA AFTER 250UB IN PLACE
- GENERATOR SUPPLIER TO CONFIRM REQUIRED SLEEVES/CONDUITS FOR CABLES – NOTE SUBMERGED CONDITION
- CANOPY COLUMNS & ENCLOSURE NOT SHOWN FOR CLARITY



DETAIL 1 (004)

1:5

Reference Drawings		Rev.	Revision	Name	Date	Approved
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.		C	ACCESS WALKWAY REVISED	SP	NOV'18	SP
REALSERV SITE SURVEY	06/02/2018	B	WALKWAY REVISED	SP	NOV'18	SP
HYDRAULIC SERVICES SITE PLAN AS INSTALLED	133270-H-02	A	FOR DISCUSSION	SP	OCT'18	SP

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Designed	SP	OCT'18
Checked	SP	OCT'18
CPEng Approval	AP	OCT'18

Signature

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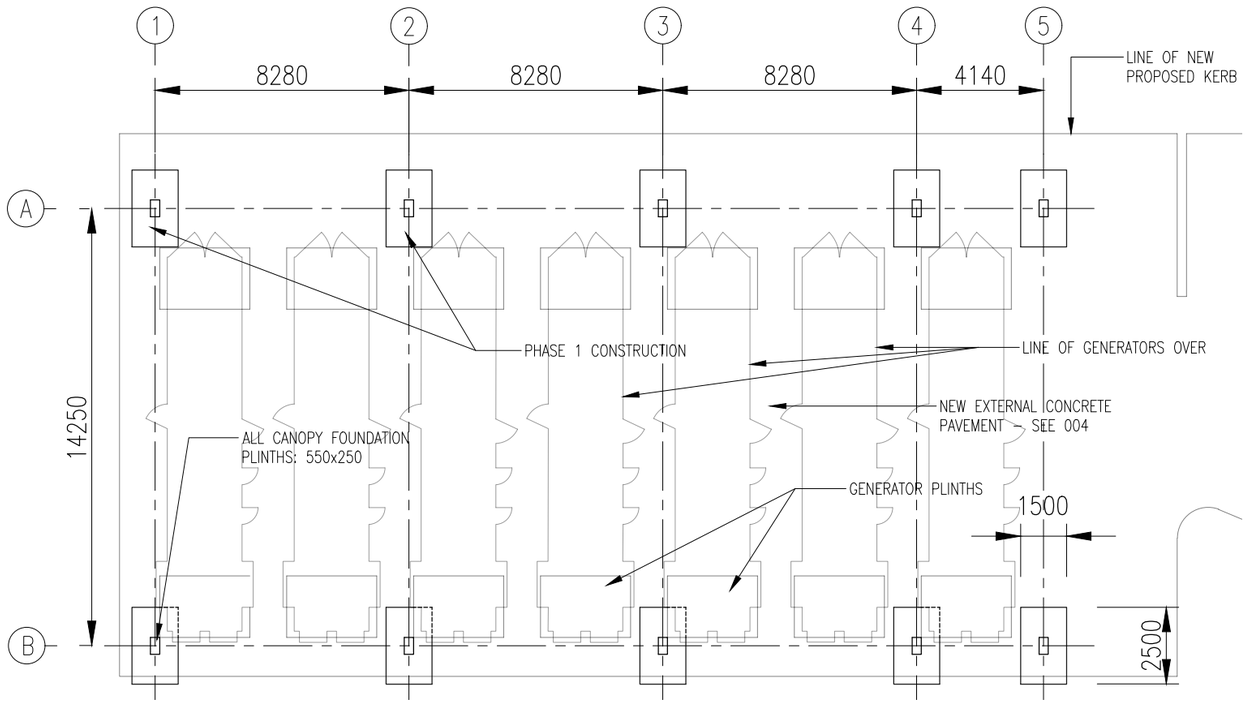
Scale AS SHOWN A3

Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

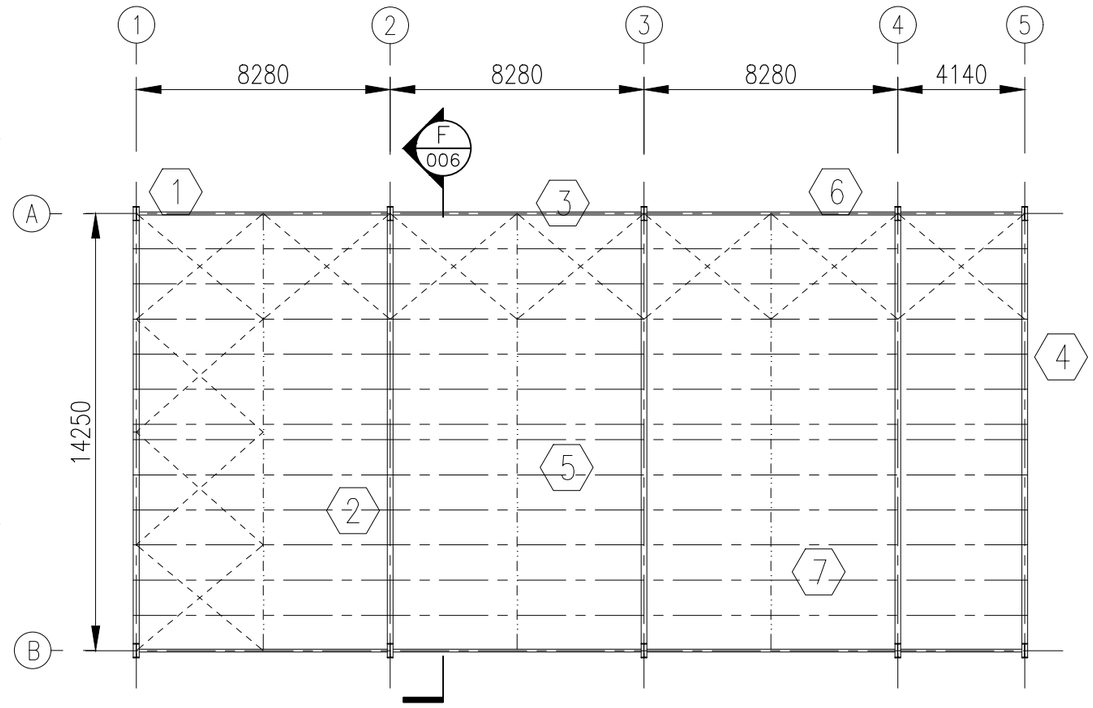
Drawing No S001-00-005

Revision C



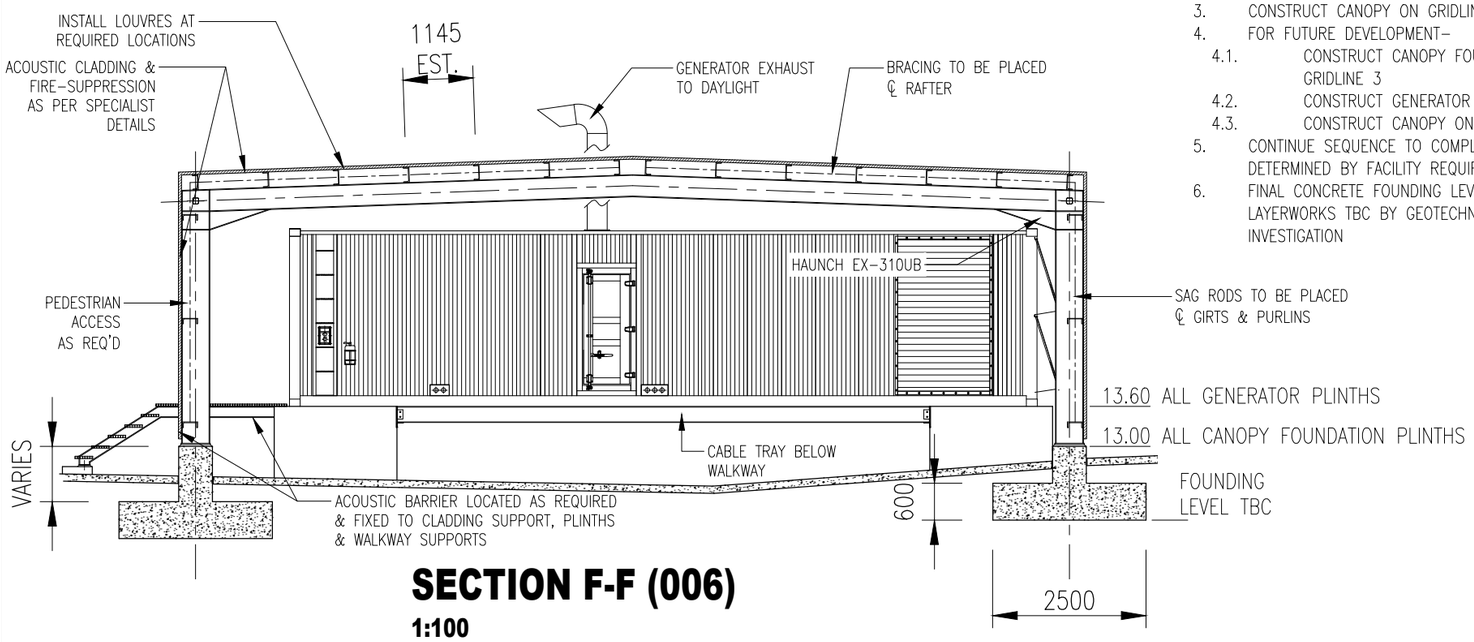
PROPOSED FOUNDATION LAYOUT

1:200



GENERATOR CANOPY GENERAL ARRANGEMENT

1:200



SECTION F-F (006)

1:100

PROPOSED CONSTRUCTION SEQUENCE:

1. CONSTRUCT CANOPY FOUNDATIONS ON GRIDLINES 1 & 2
2. CONSTRUCT GENERATOR FOUNDATIONS 1 & 2
3. CONSTRUCT CANOPY ON GRIDLINES 1 & 2
4. FOR FUTURE DEVELOPMENT–
   - 4.1. CONSTRUCT CANOPY FOUNDATIONS ON GRIDLINE 3
   - 4.2. CONSTRUCT GENERATOR PLINTH 3 & 4
   - 4.3. CONSTRUCT CANOPY ON GRIDLINE 3
5. CONTINUE SEQUENCE TO COMPLETION AS DETERMINED BY FACILITY REQUIREMENTS
6. FINAL CONCRETE FOUNDING LEVEL AND LAYERWORKS TBC BY GEOTECHNICAL INVESTIGATION

CANOPY GA		
NO	DESCRIPTION	MEMBER
1	COLUMN	410UB
2	RAFTER	360UB
3	EAVES BEAM	100SHS
4	GABLE COLUMNS	100SHS
5	PURLINS & GIRTS	250PFC
6	ROOF BRACING	75x75EA
7	SAG RODS & HANGERS	50x50EA
8	CLADDING SUPPORT	310UB

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REALSERV SITE SURVEY	06/02/2018	B	CANOPY REVISED	SP	NOV'18	SP
HYDRAULIC SERVICES SITE PLAN AS INSTALLED	133270-H-02	A	FOR DISCUSSION	SP	OCT'18	SP
Reference Drawings		Rev.	Revision	Name	Date	Approved

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Drawn	SP	OCT'18
Designed	SP	OCT'18
Checked	SP	OCT'18
CPEng Approval	AP	OCT'18

Signature

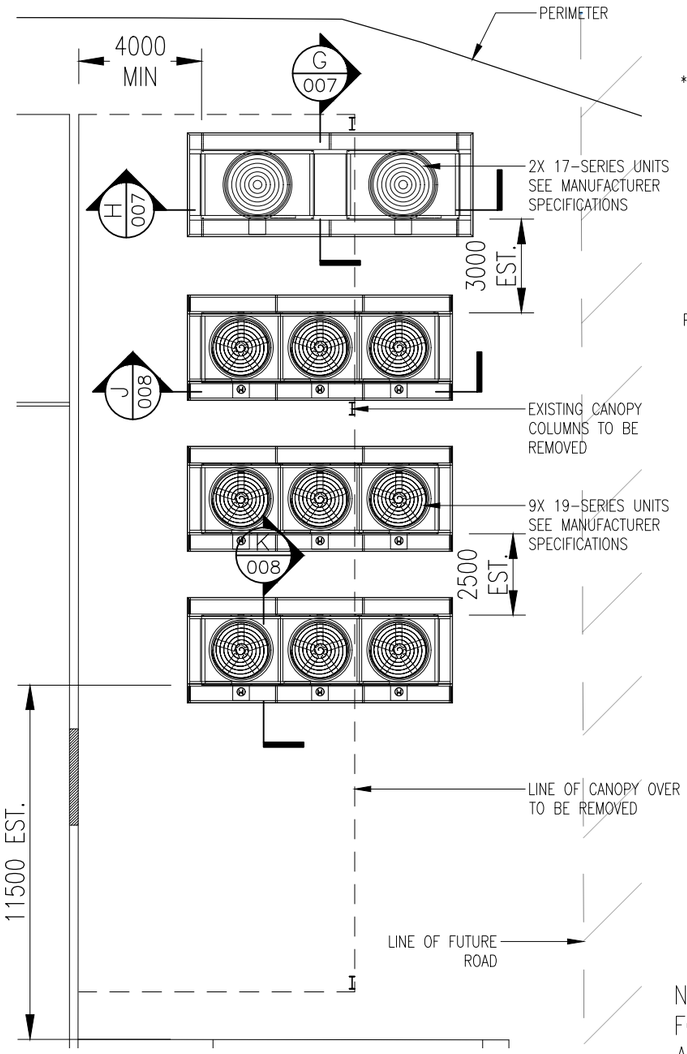
Client THE DATA EXCHANGE NETWORK LTD

Scale AS SHOWN A3

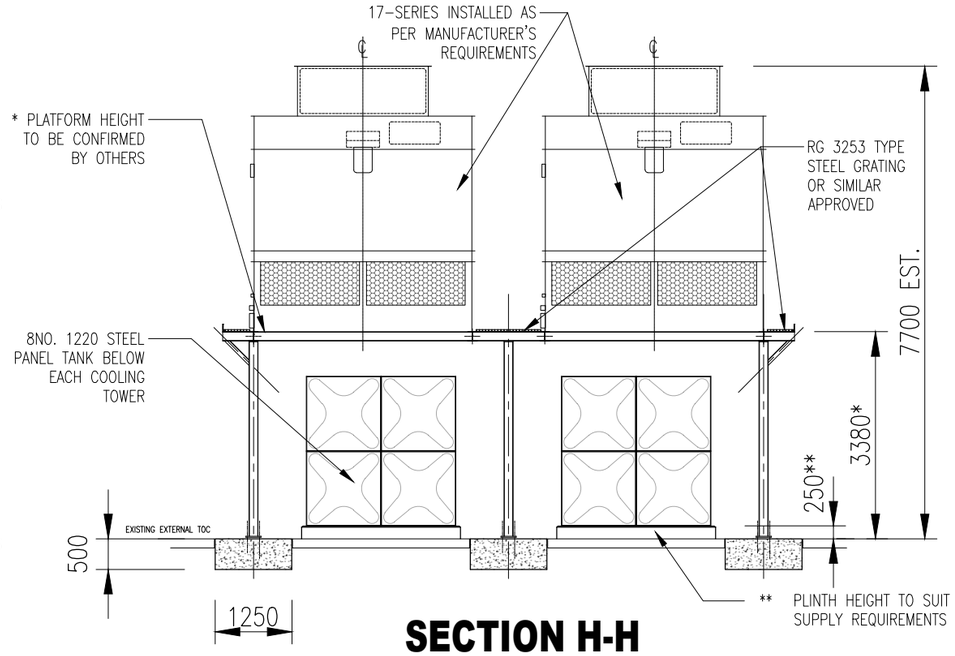
Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

Drawing No S001-00-006

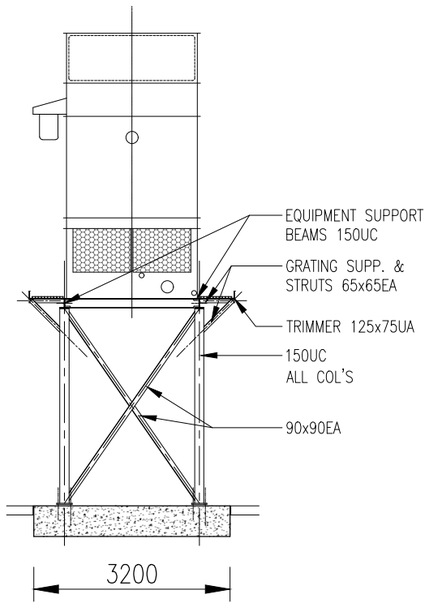
Revision B



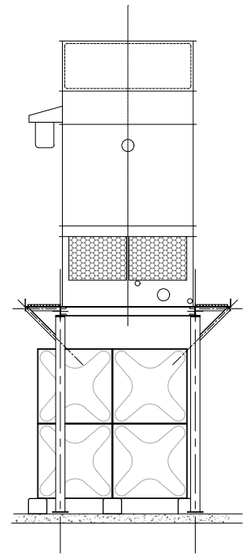
PROPOSED COOLING TOWER LAYOUT
1:200



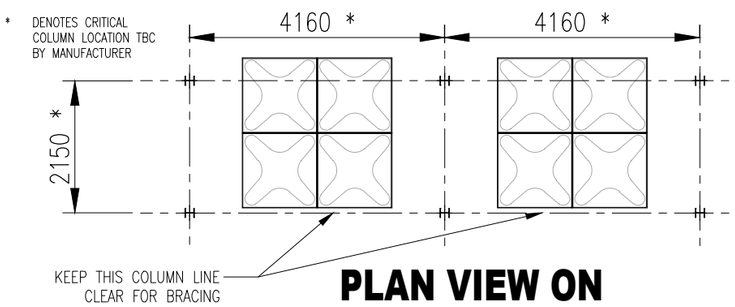
SECTION H-H
1:100



SECTION G-G
1:100

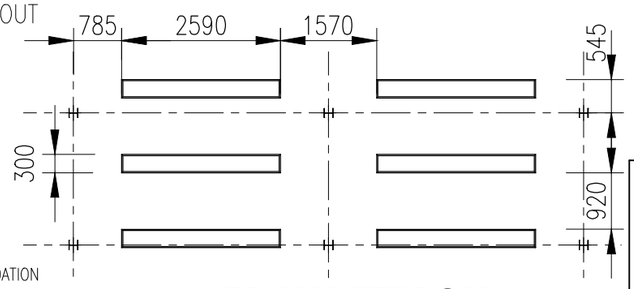


ELEVATION ON TOWER
1:100

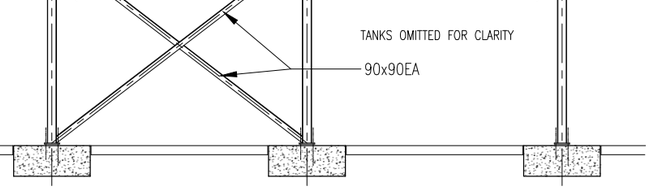


PLAN VIEW ON TANKS
1:100

NOTE:
FOR PLATFORM BEAM
ARRANGEMENT &
FOUNDATION LAYOUT
SEE 008



PLAN VIEW ON PLINTHS
1:100



PARTIAL VIEW ON FRAME
1:100

NOTES:
1. COOLING TOWER LOCATIONS STRICTLY ACCORDING TO MANUFACTURERS REQUIREMENTS
2. EQUIPMENT DIMENSIONS & ARRANGEMENT AS PER MANUFACTURER
3. ACCESS PLATFORM EXTENT AND HEIGHT REQUIREMENTS AS PER MANUFACTURER
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5. WATER SUPPLY & SERVICES BY OTHERS
6. EXISTING EXTERNAL CONCRETE PAVEMENT TOC LEVELS TO BE CONFIRMED PRIOR TO CONSTRUCTION – FOUNDATION LEVELS MAY BE REVISED TO SUIT
7. DEMOLISH EXISTING CONCRETE PAVEMENT FOR FOUNDATION EXCAVATIONS – WHERE POSSIBLE, PLACE NEW WATER TANK PLINTHS ON EXISTING CONCRETE PAVEMENT
8. FOUNDATION LAYERWORKS: TO BE CONFIRMED BY GEOTECHNICAL INSPECTION
9. NEW FOUNDATION TOC TO BE SLOPED TO ALLOW SURFACE WATER RUN-OFF – PROVIDE ISOLATION JOINTS AT INTERFACE WITH EXISTING CONCRETE PAVEMENT

Reference Drawings		Rev.	Revision	Name	Date	Approved
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REALSERV SITE SURVEY	06/02/2018	.	.	.	.	.
HYDRAULIC SERVICES SITE PLAN AS INSTALLED	133270-H-02	A	FOR DISCUSSION	SP	OCT'18	SP

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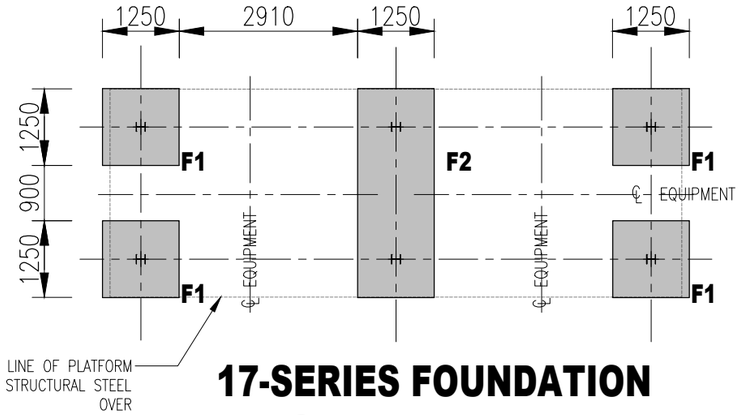
Client THE DATA EXCHANGE NETWORK LTD

Scale AS SHOWN A3

Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

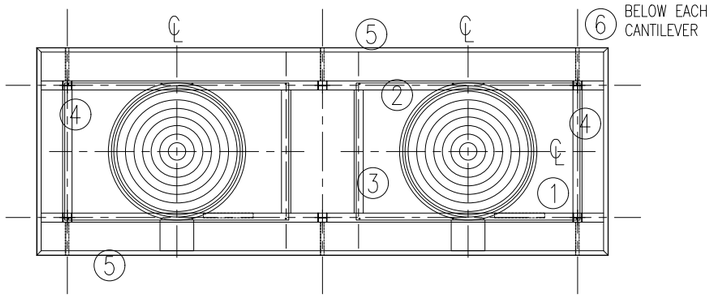
Drawing No
S001-00-007

Revision A



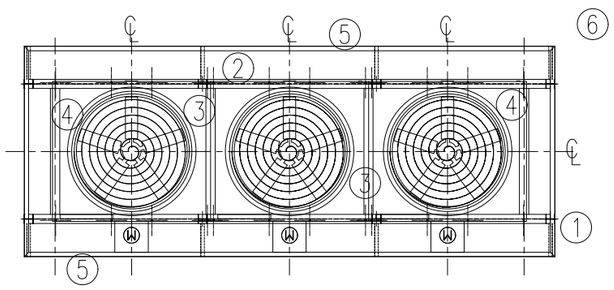
17-SERIES FOUNDATION LAYOUT

1:100



17-SERIES PLATFORM GENERAL ARRANGEMENT

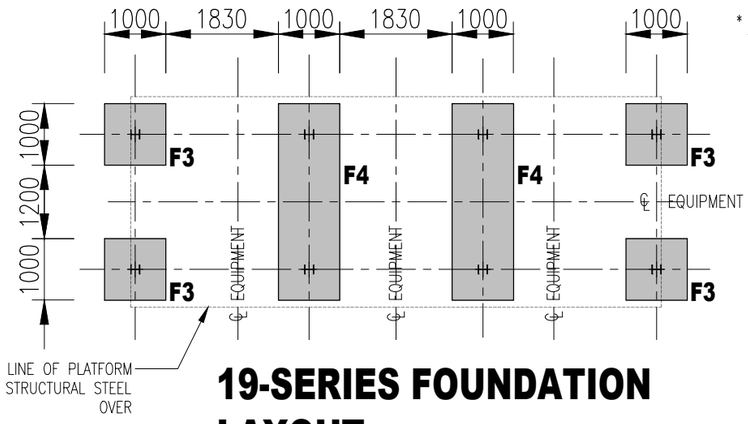
1:100



19-SERIES PLATFORM GENERAL ARRANGEMENT

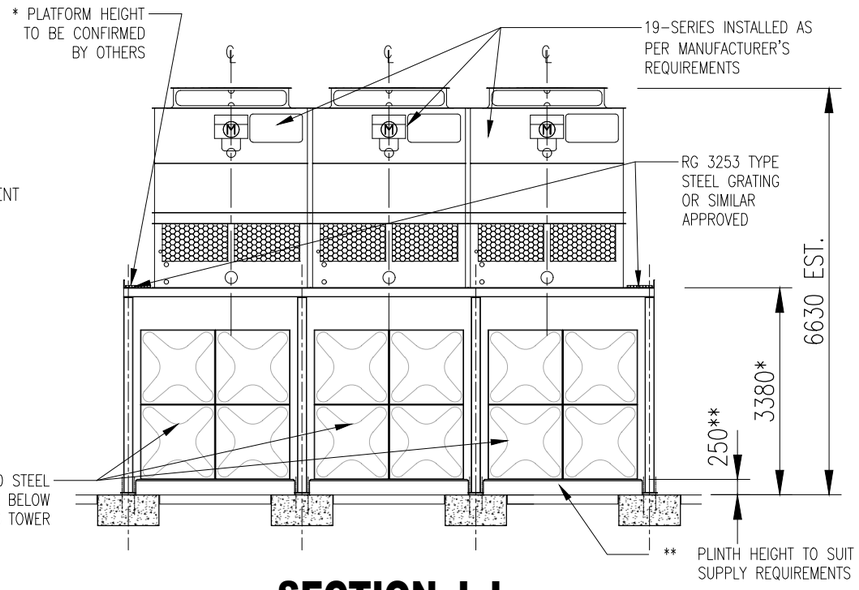
1:100

	BEAM LEGEND	
NO	DESCRIPTION	SECTION
1	COLUMNS	150 UC
2	MAIN SUPPORT BEAM	150 UC
3	CENTRAL TRANSVERSE BEAM	150 UC
4	EDGE TRANSVERSE BEAM	150 UC
5	EDGE TRIMMER/KICKFLAT	125x75 UA
6	DIAGONAL STRUTS	65x65 EA
	VERT. BRACING (17-SERIES)	90x90 EA
	VERT. BRACING (19-SERIES)	75x75 EA



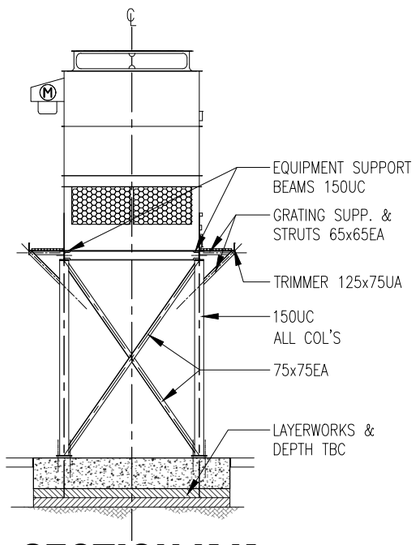
19-SERIES FOUNDATION LAYOUT

1:100



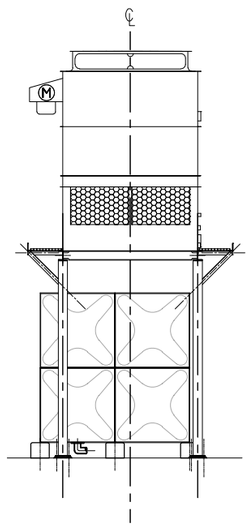
SECTION J-J

1:100



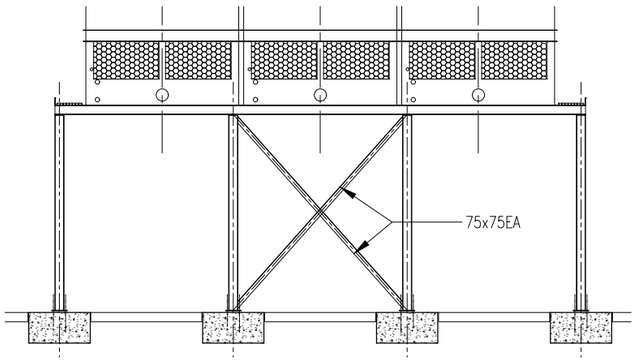
SECTION K-K

1:100



ELEVATION ON TOWER

1:100



PARTIAL VIEW ON FRAME

1:100

NOTES:

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REALSERV SITE SURVEY	06/02/2018	.	.	.	.	.
HYDRAULIC SERVICES SITE PLAN AS INSTALLED	133270-H-02	A	FOR DISCUSSION	SP	OCT'18	SP

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CPEng Approval	AP	OCT'18

Signature

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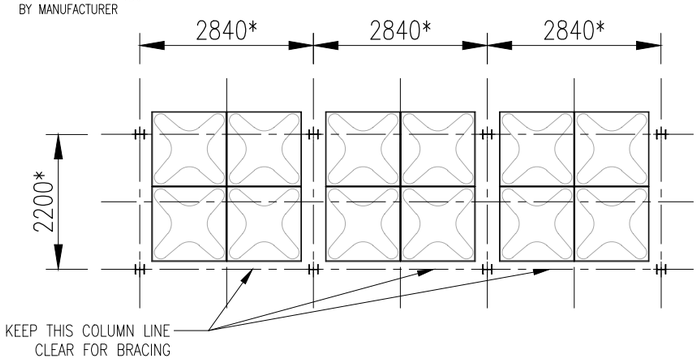
Scale AS SHOWN A3

Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

Drawing No S001-00-008

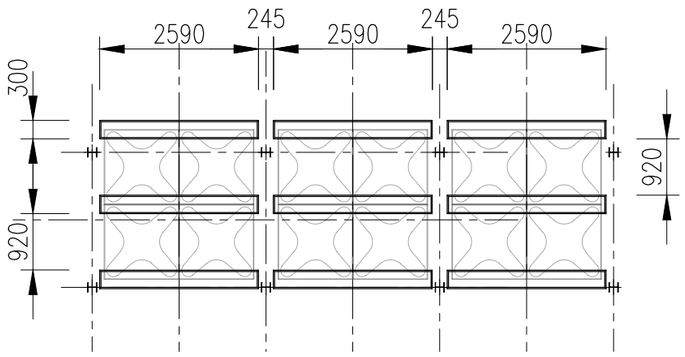
Revision A

* DENOTES CRITICAL COLUMN LOCATION TBC BY MANUFACTURER



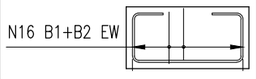
19-SERIES WATER TANK LAYOUT

1:100

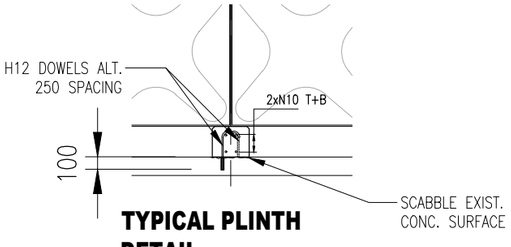


19-SERIES WATER TANK LAYOUT

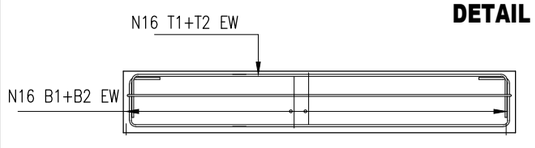
1:100



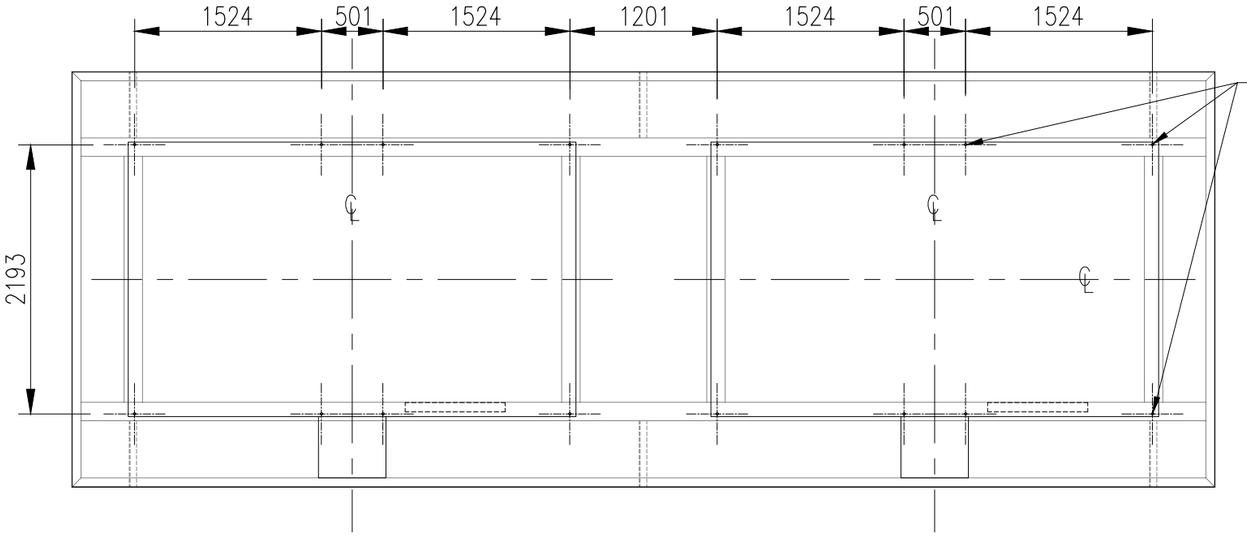
TYPICAL CORNER FOUND'N REINF'T



TYPICAL PLINTH DETAIL

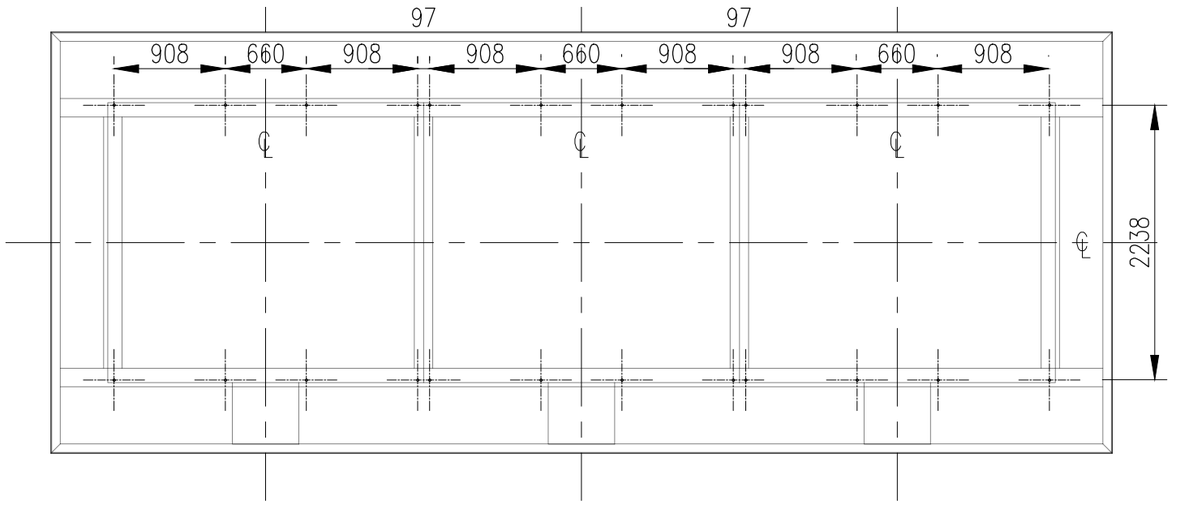


TYPICAL MID REINF'T



17-SERIES CONNECTION LAYOUT

1:50



19-SERIES CONNECTION LAYOUT

1:50

GENERAL NOTES:

1. ALL CONCRETE TO BE GRADE 32 MPa MIN.
2. CONTRACTOR TO ENSURE TOC FOUNDATIONS LEVEL TO RECEIVE TANK PANELS
3. TOC LEVELS OF NEW CONCRETE FOUNDATIONS MAY VARY TO SUIT EXTERNAL CONCRETE PAVEMENT TOC LEVELS
4. ALL REINFORCEMENT TO CONFORM TO AS/NZS 4671 & TO BE GRADE 500
5. ALL COVER TO REINFORCEMENT BELOW GROUND TO BE 60mm
6. BEARING TO BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE
7. ALL BOLTS GR. 8.8, SIZE M16
8. BOLT SPACING AND LOCATION TO BE CONFIRMED PRIOR TO PLACING EQUIPMENT
9. ENSURE SUPPORT BEAMS ARE LEVEL – NO PACKING PERMITTED BETWEEN EQUIPMENT BASE & SUPPORT BEAMS
10. FINAL CORROSION PROTECTION AS PER MANUFACTURER'S SPEC.
11. ALL CAP PLT'S AND END PLT'S TO BE MIN. 8 THK.
12. BASE PLT'S TO BE 16 THK. & PLACED ON 30 THK. GROUT
13. ALL COL'S TO BE CONNECTED USING M16/8.8
14. ALL WATER TANK PLINTHS TO BE CENTRALLY LOCATED BELOW PANEL JOINTS AND LEVELLED PRIOR TO INSTALLING TANKS

Reference Drawings		Rev.	Revision	Name	Date	Approved
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REALSERV SITE SURVEY	06/02/2018	.	.	.	.	.
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Scale AS SHOWN A3

Project DXN-S1
5 PARKVIEW DRIVE
SYDNEY OLYMPIC PARK
AUSTRALIA

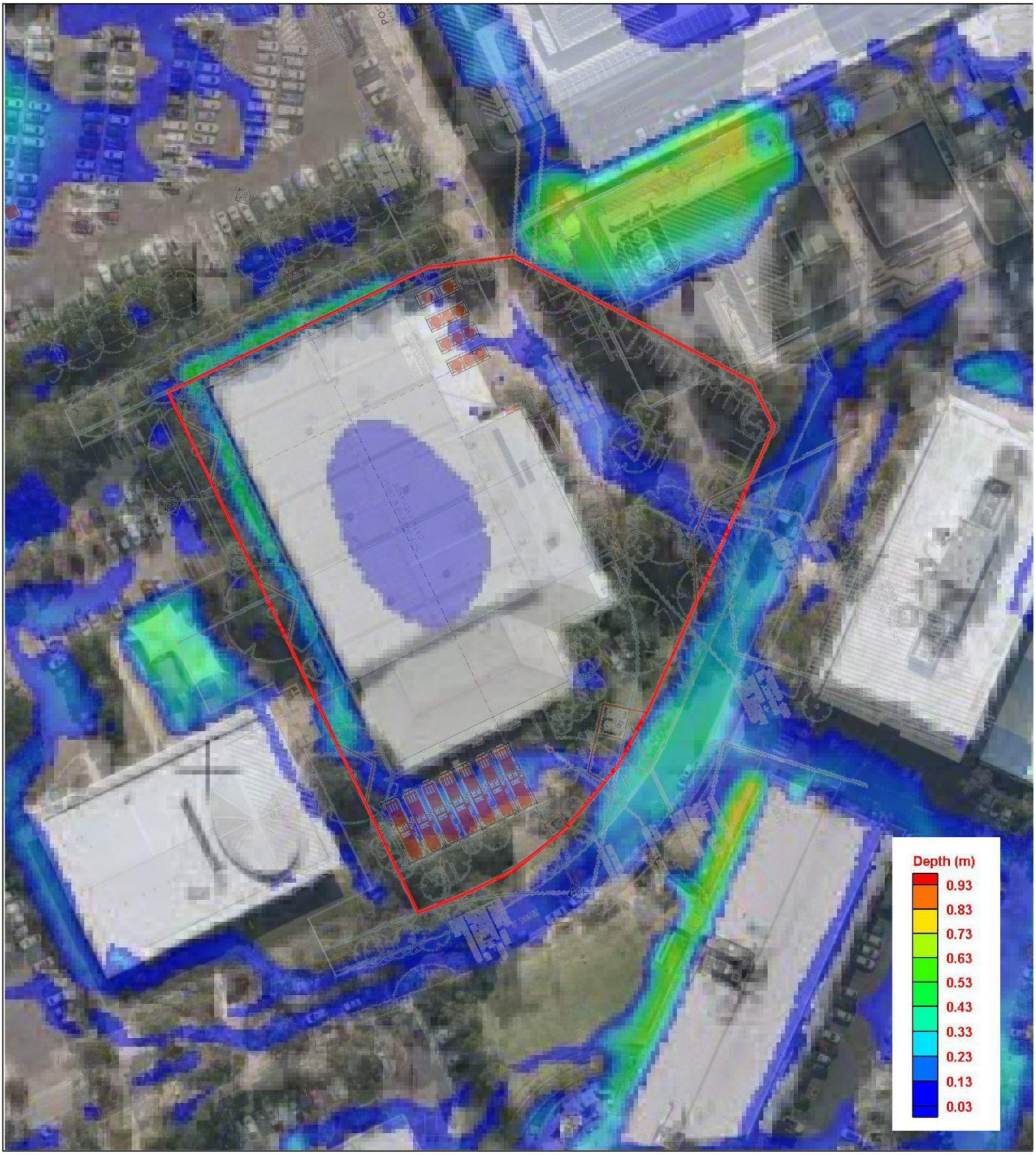
Drawing No S001-00-009

Revision A

ATTACHMENT E

100 year ARI - Flood Maps

5 Parkview Drive, Sydney Olympic Park - Flood Depth



Legend

Cadastre Boundary

ACKNOWLEDGEMENT

BG&E

DRAWN BO	DATE 27/11/2018
REVIEWED JN	PROJECT S18312
APPROVED JN	DATUM GDA 1994 MGA Zone 56

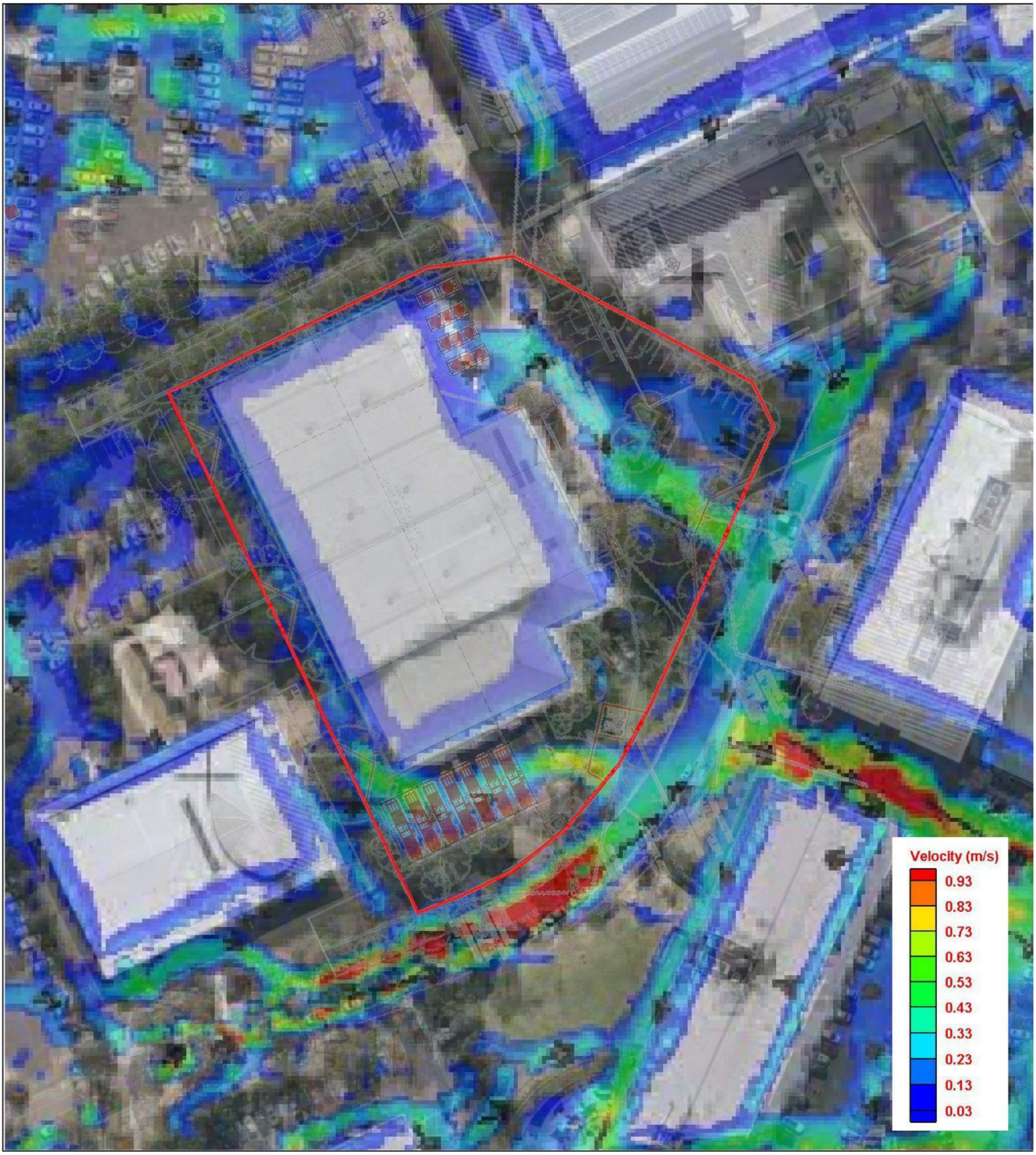
SCALE 1:800

N

7 0 7 14 21 28 m

//bgesydfs01/projects/BGE/SYD/S18312/220 Calcs/GIS/QGIS/26_11_2018_Flood_Mapping.qgs

5 Parkview Drive, Sydney Olympic Park - Flood Velocity



Legend

Cadastre Boundary

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SCALE 1:800

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