



Infrastructure Management  
Parramatta Eels  
Centre of Excellence,  
Kellyville Park

Revision	Date	Description	Author/s	Reviewer
P1	01/10/2021	Preliminary	LM	LM
0	28/02/2022	Final	LM	LM
1	25/07/2022	Final	SR	LM

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## 1 Executive Summary

### 1.1 Executive summary statement

The main utility services of Water, Gas, Sewer and Electrical infrastructure is being actively resolved for the project and the live enquiries are outlined in the following sections below.

Electricity – Authority Connections				
Item	Description	Notes	Actions	Recommendations / Status
2.1	Existing Substation (No.:54566)	the existing substation to remain		Upgraded to 760amps per phase 3 phase.  *PTC Received for the load increase, Feb 2022
2.2	Existing pillar	To remain	Upgrade to the existing incoming cables	
2.3	Existing MSB	Upgrade/modifications to existing MSB	Upgrade to the existing MSB	
Communications				
Item	Existing Service	Notes	Actions	Recommendations / Status
2.4	Telstra exchange tower	Axicom has approved the design.	NIL	Communications contact person email: <a href="mailto:Vikash.Verma@team.telstra.com">Vikash.Verma@team.telstra.com</a> <a href="mailto:Paul.farrell@axicom.com.au">Paul.farrell@axicom.com.au</a>
2.5	Existing incoming communication lead-in		Disconnect and removed the existing communications. New separate communication lead-in to be apply.	
Water				
Item	Existing Service	Notes	Actions	Recommendations / Status
3.1	Stone Mason Drive – 200mm DICL	New 100mm metered supply to building via new tapping	Application to be made to Sydney Water. Pressure and Flow is adequate to service project.	New tapping to be provided to new building.
3.2	Stone Mason Drive – 200mm OPVC	New 150mm supply t serve Hydrant and potable services	Application to be made to Sydney Water. Pressure and Flow is adequate to service project.	New tapping to be provided to new building.
Sewer				
Item	Existing Service	Notes	Actions	Recommendations / Status
4.1	Private drive off Kennedy Avenue	New 100mm mains on site to be combination of graded and pumped system	Application to be made to Sydney Water for connection	Asset Protection report (Peg out) being undertaken to existing onsite Authority sewer, additional survey information required and is underway  Section 73 ongoing, building plan approval ongoing (Asset protection report required – on going)

Gas				
Item	Existing Service	Notes	Actions	Recommendations / Status
5.1	210kPa medium pressure 110mm diameter main in Stone Mason Drive		New tapping to be made Application to Jemena for connection to be made pending final gas loads	Make new tapping. Size TBC subject to final gas load requirement

The information within this report has assumed optimal use of available site information whilst also considering the Building Code of Australia, relevant Australian Standards and Codes, client driven design guidance, best practice industry guidelines.

## 2 Introduction

### 2.1 Project Description

The proposed development will provide state of the art facilities which enable physical recreation opportunities in conjunction with improved facilities for staff, players and existing users of the site. The proposed development will be integrated with the existing recreational landscape of the site and complement the upgrades to the existing playing fields being undertaken by Council. The proposed development is defined as a Recreation facility (major), and includes the following components:

- Construction of high-performance Centre of Excellence in the north east of the site adjacent to Training Field 2:
  - Elite level gymnasium.
  - Medical and rehabilitation facilities.
  - Aquatic recovery and rehabilitation pools.
  - Lecture theatre and meeting rooms.
  - Player education and study areas.
  - Administration offices for the Parramatta Eels.
  - New female facilities including a dedicated female change room, cubicle toilets and showers.
  - Balcony and terrace area.
  - End of Trip Facilities and bicycle parking.
  - Refuse Area.
- Construction of a Community Facility, including a grandstand with approximately 1,500 seats in the centre of the site adjacent to the Main Playing Field 3:
  - Unisex changerooms and amenities.
  - Referee changeroom and amenities.
  - First Aid/Medical room.
  - Community gymnasium.
  - Café/kiosk.
  - Concourse terrace.
  - Multipurpose community function room with kitchen and amenities.
  - Refuse Area.
  - Bicycle parking.
- Solar arrays will be included on the roof of both the Centre of Excellence and Community Facility.
- Additional 40 car parking spaces for the proposed facility to operate in conjunction with existing at grade car parking already constructed by Council.
- Additional landscaping throughout the development footprint.
- Removal of a small number of trees internal to the site, however noting perimeter trees will be retained where not affected by the proposed building footprints.
- Hours of operation for the Centre of Excellence and Community Facility are 5:00am to 12:00am, however the following key times are likely:
  - Centre of Excellence: 7.00am - 7.00pm
  - Community Facility: 7.00am - 10.00pm

### 2.2 Overview

This Infrastructure Management Plan has been prepared by erbas™ on behalf of HB Arch for Parramatta Eels and Hills Shire Council (the applicant) in support of State Significant Development application (SSD-2445295) for Parramatta Eels Centre for Excellence and Community facility at Kellyville Park (the site).

Application Number	SSD-2445295
Project Name	Eels Centre of Excellence and Community Sports Hub, Kellyville
Location	Kellyville Memorial Park, 8 Memorial Avenue, Kellyville Lot 60/DP 10702, Lot 1/DP 167626, Lot 10/DP 266847, Lot 123/DP 1113075 and Lot 1006/DP 1132611 within The Hills Shire Council Local Government Area
Applicant	Parramatta National Rugby League Club Limited
Date of Issue	18/08/2021

The report shows compliance with item 23 (Infrastructure and Utilities).

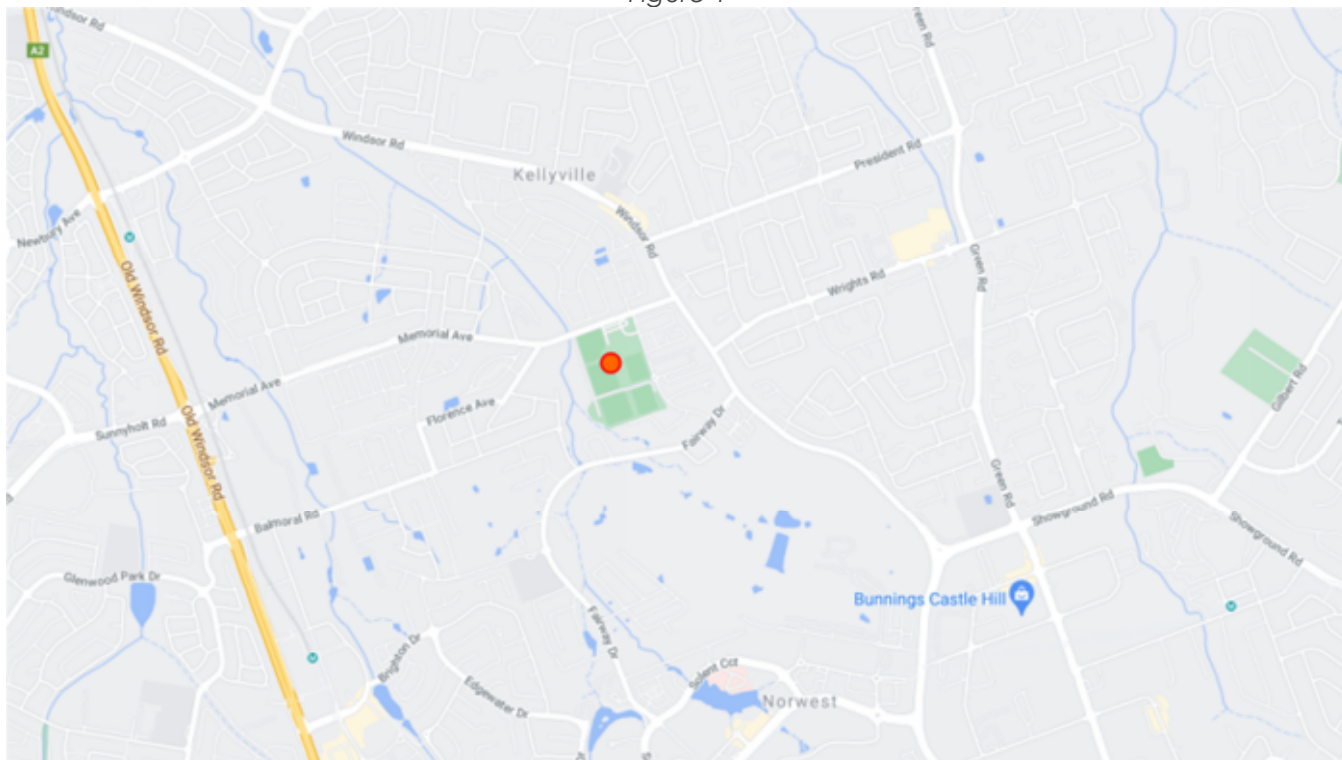
## 2.3 Site Description

The site is located at Kellyville Park, in the suburb of Kellyville, within The Hills Shire Local Government Area (LGA) situated towards its southwestern corner.

The site is located in proximity to the Balmoral Road Sports Hub, less than 1km south west of the site. Further to this, the site is located approximately 3.5km north east of the Westlink M7 tollway.

The site's locational context is shown in **Figure 1** below.

Figure 1



Locational context of the site

The site comprises a dual allotment of land with a total area of 127,070m<sup>2</sup>, and development of the Center of Excellence will occur within the northern allotment, having an area of 76,262m<sup>2</sup>. The site is currently owned by Hills Shire Council and it is legally described as Lot 1 DP167535 & Lot 60 DP10702. The site is bounded between Memorial Avenue to the North, Stone Mason Drive to the East, McKellar Court to the South and council parkland to the West. An aerial image of the site is shown in **Figure 2**.





Figure 2: Site aerial



## 2.4 Proposed Development

The proposal relates to a development application to facilitate the development of a Parramatta Eels Centre of Excellence at the Kellyville Park site. Specifically, the works that are proposed for the DA include:

- A two-storey Parramatta Eels centre of excellence consolidated administration and high-performance training centre, comprising a gymnasium, sports science and sports medicine facilities, business offices, player lounges, social spaces, a double height seating area, café and kitchen facilities, and retail stores.
- A two-storey community facility and grandstand area comprising of changing facilities, a community gym, a multi-purpose room, first aid centre, café and kitchen facilities and a retail tenancy;
- Two international Rugby League Compliant fields 116m long x 68m wide.
- Two additional international compliant Rugby League main playing fields, 116m long x 68m wide, including grandstand seating.
- Associated car parking, landscaping and public domain works; and
- Extension and augmentation of services and infrastructure as required.

## 2.5 Purpose

This Infrastructure Management Plan has been provided as part of the State Significant Development (SSD) submission to,

1. Assess the impacts of the development on existing utility infrastructure and service provider assets surrounding the site;
2. Identify any infrastructure upgrades required off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented;
3. Provide an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be co-ordinated, funded and delivered to facilitate the development.
4. Address the existing capacity of the site to service the proposed development and any extension or augmentation, property tenure or staging requirements for the provision of utilities, including arrangements for electrical network requirements, drinking water, waste water and re-cycled water and how the upgrades will be coordinated, funded and delivered on time and be maintained to facilitate the development
5. Identify the existing service infrastructure on the site or within the network which may be impacted by the construction and operation of the proposal and the measures to be implemented to address any impacts on this infrastructure.

## 2.6 Introductory information

The project is to be assessed under the NCC 2019 amdt.1 and is subject to ongoing assessments for compliance as design development is progressed. Below is a summary of the building classification in relation to NCC-BCA classifications by the building surveyor (Philip Chun's BCA markup received 26th August, 2021):

Area	Class
COE lower level – All areas except football department & sleeping area	9b
COE lower level – Football department	5
COE lower level – Sleeping area	3
COE upper level – All areas except Administration offices, Retail & FOH	9b
COE upper level – Administration offices	5
COE upper level – Retail & FOH	6

The proposed building has an effective height of 12.13m (less than 25m).

This report provides commentary to the extent of the statutory infrastructure available to the site for the project. The infrastructure and design strategies herein may change or be developed with further scope as the design progresses.

The consulted and/ or notified public authorities are as follows;

Electrical

Service Type	Authority	Application status	Application reference number	Comments
Communications	Telstra	In progress	N/A	Potential relocation of Telstra tower has been reviewed and is not required by Axicom. Axicom has approved the current design.  Contact: <a href="mailto:Vikash.Verma@team.telstra.com">Vikash.Verma@team.telstra.com</a> <a href="mailto:paul.farrell@axicom.com.au">paul.farrell@axicom.com.au</a>
	NBNCo	No yet submit the application		Submit during the DD stage.
Electrical	Endeavour	Application lodged on 11 June '21	Endeavour Energy Ref: UCL10961	Application with Endeavour Energy lodged on 11 June '21.  Endeavour Contact: Ravi Lal (02-98535626)  Response from Endeavour Energy received on 29 June '21, asking for the engagement of a Level 3 ASP to prepare and provide an electrical design to Endeavour Energy in the form of a proposed method of supply.  A fee proposal has been requested and obtained from AA Power Engineering (an ASP 3 consultant) and authorised to commence review in September 2021. Response is expected in October 2021 as to the capacity of the existing substation.  Endeavour Energy connection offer received 18.02.22, including PTC letter. No further works or fees required from the authority

## Hydraulic

Service Type	Authority	Retailer	Application status	Comments
Gas	Jemena	TBC	Not lodged yet	Not ready for lodgement yet
Section 73	Sydney Water	-	Not lodged yet	Not ready for lodgement yet. Development consent/conditions is required. Additional structural information requested by Sydney water has been provided on 25/07/22 for their further processing.
Pressure and flow	Sydney Water	-	Lodged	Pressure and flow suitable for development for both potable and non potable water supplies
Sewer & Water Connection	Sydney Water	-	Not lodged yet	Not ready for lodgement yet. Section 73 approval is required.
Inline pumping	Sydney Water	-	Not required	Pump is not required.
Fire dispensation	FRNSW	-	Not lodged yet	Not ready for lodgement yet

## 2.7 Limitations

The design approach for each of the building services disciplines is based upon preliminary planning solutions and layouts.

This report does not currently incorporate specific fire engineering solutions or identified constraints, which are yet to be determined by the project. Nor does it robustly consider the required fire services alternate solutions for the project.

This report does not incorporate any requirements of the project that may be imposed as part of any required development conditions resultant to this application.

The following methodology was used to develop the strategies herein;

- General commentary on the adequacy of plant and systems to meet a minimum performance requirement set out in the relevant standards and guidelines.
- Supply adequacy based on space standards recorded within the NCC (2019)

### 3 Services Design response to SEARs

The following table provides a summary response to the SEARs requirements.

Number	Initiated by	Comments	Response
23	SEARs	Assess of the impacts of the development on existing utility infrastructure and service provider assets surrounding the site.	Each of the major supplying utilities have been consulted for the development. There is no major infrastructure traversing the site requiring relocation as a consequence of current planning.
23	SEARs	Identify any infrastructure upgrades required off-site to facilitate the development and any arrangements to ensure that the upgrades will be implemented on time and be maintained.	<p>Each of the supply authorities have processed the initial applications made as part of the development planning.</p> <p>A new electrical substation may be required and is in the planning process with an accredited ASP3 designer.</p> <p>The sewer and water supplies are adequate for the site and a further feasibility assessment is underway to anticipate the Section 73 application that will be required for the future planning conditions.</p> <p>Gas is currently connected to the site.</p>
23	SEARs	Provide an infrastructure delivery and staging plan, including a description of how infrastructure requirements would be coordinated, funded and delivered to facilitate the development.	The reporting herein provide a description of how infrastructure requirements are be coordinated, funded and delivered to facilitate the development and also elaborates how the connections are anticipated to be executed for the project site.

## **4      Hydraulic Services**

### **4.1    Scope of Services**

The scope of works for hydraulic services for the proposed development will include the provision of the following major components:

- Domestic cold water supply.
- Domestic hot water system.
- Sanitary plumbing and drainage.
- Stormwater drainage.
- Rainwater harvesting system.
- Gas supply.

### **4.2    Proposed Services**

#### **4.2.1 Domestic Cold Water**

Cold water services are available to the site. The water authority for the area is Sydney Water with an existing 200DICL main under Stone Mason Drive.

A new 65mm Potable water tapping, backflow prevention device and meter assembly is proposed to serve the domestic cold-water requirements of the facility.

A new 150mm Recycled water tapping, meter, backflow prevention device and booster assembly are proposed to serve the Fire Hydrant system and Rainwater top up, supplementing Sanitary flushing, general washdown and garden irrigation requirements of the facility.

Pressure and flow results have been received and show sufficient pressure and flow to provide both Potable water and Recycled water to serve the site.

Potable water is to be used for Domestic water reticulation.

Pressure and flow results received show sufficient pressure and flow in the Potable water main to not require onsite potable water tanks or pumps.

Recycled water is to be used for Fire Hydrant and Fire hose reel services.

Pressure and flow statements received show sufficient pressure and flow in the Recycled water main to not require on site Fire tanks or pumps

Pressure and flow statements are valid for a period of twelve (12) months from the time of issue, Pressure and Flow statements in this document are valid at the time of preparation.

Additional Pressure and Flow statements should be obtained prior to the expiration of the current results.

All design to be compliant with AS3500.1.

Figure 3.0 below shows the proposed connection points for the following

- Sydney water – Potable Water connection
- Sydney Water – Recycled Water connection
- Sydney Water – Wastewater connection





## 4.3 Potable Water Pressure and Flow Statement



### Statement of Available Pressure and Flow

Michael Slatter  
15 Atchison Street  
St Leonards, 2065

Attention: Michael Slatter

Date: 14/09/2021

Pressure & Flow Application Number: 1218376  
Your Pressure Inquiry Dated: 2021-08-19  
Property Address: Memorial Avenue, Kellyville 2155

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

#### ASSUMED CONNECTION DETAILS

Street Name: Stone Mason Drive	Side of Street: East
Distance & Direction from Nearest Cross Street	20 metres North from Abbotsford Road
Approximate Ground Level (AHD):	71 metres
Nominal Size of Water Main (DN):	200 mm

#### EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	99 metre head
Minimum Pressure	74 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	74
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	5	76
	10	76
	15	75
	20	75
	26	74
	30	74
	40	73
	50	71
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main)	5	74
	10	74
	15	74
	20	73
	26	72
	30	72
	40	70
	50	69
Maximum Permissible Flow	62	66

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

[swtapin@sydneywater.com.au](mailto:swtapin@sydneywater.com.au)

Sydney Water Corporation ABN 49 776 225 038  
1 Smith St Parramatta 2150 | PO Box 399 Parramatta 2124 | DX 14 Sydney | T 13 20 92 | [www.sydneywater.com.au](http://www.sydneywater.com.au)  
Delivering essential and sustainable water services for the benefit of the community

#### 4.4 Recycled Water Pressure and Flow Statement



### Statement of Available Pressure and Flow

Michael Slatter  
15 Atchison Street  
St Leonards, 2065

Attention: Michael Slatter

Date: 06/12/2021

Pressure & Flow Application Number: 1293149

Your Pressure Inquiry Dated: 2021-11-15

Property Address: Kellyville Park Memorial Avenue Kellyville NSW

The expected maximum and minimum pressures available in the water main given below relate to modelled existing demand conditions, either with or without extra flows for emergency fire fighting, and are not to be construed as availability for normal domestic supply for any proposed development.

#### ASSUMED CONNECTION DETAILS

Street Name: Stone Mason Drive	Side of Street: East
Distance & Direction from Nearest Cross Street	9 metres North from Kennedy Avenue
Approximate Ground Level (AHD):	73 metres
Nominal Size of Water Main (DN):	200 mm – <b>Recycled Water</b>

#### EXPECTED WATER MAIN PRESSURES AT CONNECTION POINT

Normal Supply Conditions	
Maximum Pressure	57 metre head
Minimum Pressure	52 metre head

WITH PROPERTY FIRE PREVENTION SYSTEM DEMANDS	Flow l/s	Pressure head m
Fire Hose Reel Installations (Two hose reels simultaneously)	0.66	51
Fire Hydrant / Sprinkler Installations (Pressure expected to be maintained for 95% of the time)	5	53
	10	52
	15	51
	20	50
	26	48
	30	46
	40	41
Fire Installations based on peak demand (Pressure expected to be maintained with flows combined with peak demand in the water main)	5	51
	10	50
	15	49
	20	47
	26	45
	30	43
	40	37
Maximum Permissible Flow	42	36

(Please refer to reverse side for Notes)

For any further inquiries regarding this application please email :

[swtapin@sydneywater.com.au](mailto:swtapin@sydneywater.com.au)

Sydney Water Corporation ABN 49 776 225 038

1 Smith St Parramatta 2150 | PO Box 399 Parramatta 2124 | DX 14 Sydney | T 13 20 92 | [www.sydneywater.com.au](http://www.sydneywater.com.au)

Delivering essential and sustainable water services for the benefit of the community

#### **4.5 Domestic Hot Water**

Separate centralised gas hot water systems are proposed for the Centre of Excellence and Community Facilities. The hot water plant is to be a gas instantaneous manifolded system with storage (to be sized as designs progress). A hot water circulation loop in the ceiling space will move hot water to each wet area.

Thermostatic mixing valves (TMVs) will be provided to temper the hot water temperature down to 45°C at all locations where water will contact the skin, basins, baths, showers.

Chilled/boiling water unit (BWU) is proposed for tea points/kitchenettes/staff areas. Tapware will be fitted to/adjacent sinks with the heating/cooling units below the sink.

All design to be compliant with AS3500.1 and AS3500.4.

#### **4.6 Sewer Infrastructure**

An existing Sydney Water sewer drains runs between the existing cricket grounds and baseball diamond, parallel to Kennedy Avenue. Due to the existing invert of the sewer infrastructure and proposed levels of the new facilities, sewer will not be able to fall out of the site via gravity and sewer pumping will be required.

The sewer pump system is proposed to comprise of dual pumps to provide redundancy in the event of one pump failing. If both pumps fail, an interlocking system can be provided connecting the control panel to solenoid valves which can shut off the water supply to each building.

Grease interceptor traps will be required for the proposed kitchen areas in each building.

All design to be compliant with AS3500.2.

#### **4.7 Stormwater Drainage**

Siphonic stormwater drainage to the roofed areas is proposed due to the large catchment areas for each building.

A portion of the roof stormwater can be collected to the rainwater tanks with the remaining to the inground civil infrastructure. A first flush diversion system is recommended to reduce dirt and debris entering the rainwater tanks.

Roof design to accommodate 1:100 year storm event with full overflow capacity.

#### **4.8 Rainwater Harvesting System**

An inground rainwater tank will be provided as required by ESD report for each building.

Stored rainwater from rainwater tanks can be treated and reticulated to toilets and landscaping areas as requested.

#### **4.9 Gas Infrastructure**

Gas services are available to the site. The gas authority for the area is Jemena and there is a 110mm medium pressure (210kPa) gas main located under Stone Mason Drive.

A new site gas tapping and meter assembly is proposed.

All gas load demands for hot water, cooking and mechanical plant shall be confirmed during detailed design phase.

## **5 Fire Protection Services**

### **5.1 Scope of Services**

The scope of works for fire protection services for the proposed development will include the provision of the following major components:

- Fire hydrants and hose reels.
- Portable fire extinguishers and blankets.
- Fire detection and occupant warning system.

Fire protection is to be provided from the Authority Recycled water main via an new 150mm connection form Kennedy Drive.

### **5.2 Proposed Services**

#### **5.2.1 Fire Hydrants**

Fire hydrants will be provided externally and be located a minimum of 10m away from any building to provide a compliant fire hydrant system to AS2419.1.

The current design proposal is to avoid having internal hydrants and to provide external hydrants only pending the provision of the pressure and flow of the street infrastructure.

Compliant hydrant coverage will be provided with 60m hose coverage from external hydrants with minimum 1m hose into the room. should the proposed location of external hydrant be unacceptable, either or both of the following options may be required:

- additional external fire hydrants
- provision of internal hydrants (note that internal hydrants have a 30m hose length only)

Dispensation from FRNSW may be required for external hydrants located 50m from any hardstand and if there's any pressure and coverage shortfall subject to final positioning of the fire hydrants.

A new fire hydrant booster assembly will be provided at the Kennedy Avenue carpark entrance.

#### **5.2.1 Fire Tanks and Pumps**

Pressure and Flow information received from Sydney Water provides sufficient pressure and flow within the Authority Recycled water main to not require onsite Fire tanks or pumps.

Details of pressure and flow can be found in section 4 – Hydraulic services.

#### **5.2.2 Hose Reels**

Fire hose reel will be provided to clause E1.4 of NCC2019. Fire hose reels are to be located max 4m away from an exit and will provide 36m hose coverage to all parts of the building with minimum 1m hose into the room.

#### **5.2.1 Fire Extinguishers and Blankets**

Fire extinguisher and Fire blankets to be provided to service the final design in accordance with AS2444.

#### **5.2.2 Fire Detection and Occupant Warning**

An analogue addressable fire detection control and indicating equipment (FDCIE) with external communication connection to monitoring by fire brigade is proposed for the new building.

Fire detection and occupant warning system will be designed to the requirements of AS1670.

The following interface is proposed for the FDCIE:

- Security system interface for release of electric locking devices to doors located along path of egress.
- Mechanical services switchboard interface for isolation of non-safety services plant and activation of smoke management systems.
- Building management system interface for notification of fire alarm.



### **5.3 Items To Be Further Discussed And/Or Addressed during the next phase of design.**

- Final location of the fire hydrants
- Requirements of fire sprinklers, subject to fire engineering or building surveyor requirements
- Interfacing of fire alarms and site wide systems

## 6 Electrical Services

### 6.1 Scope of Services

following major components:

- kiosk
- site main switchboard and main switchboard for each stage
- consumer main and submains cabling
- distribution switchboard
- communications system

### 6.2 Existing Electrical Distributor Infrastructure



Figure 4.0: Existing site infrastructure

The development area is served by kiosk (No.54566) located at Stone Mason Drive to be upgraded. The existing kiosk appears to be serving the car park and field lighting via underground cable in conduits. It is assumed that power to the temporary facilities located central to the site are being supplied by this transformer also.

#### 6.2.1 Existing kiosk

Existing kiosk to be upgraded.

Liaise and negotiate with the authority. Level 3 ASP consultant will be carried out the scope of authority upgrade design works now completed. Permission to Connection (PTC) letter received from Endeavour Energy, Feb 2022.





Figure 4.1: KIOSK along Stone Mason Drive



Figure 4.2: Existing electrical pillar along Stone Mason Drive(between the kiosk and Telstra Tower)

### 6.2.2 Existing main switch board

Existing main switchboard to be upgrade. Refer to drawing for detail.



Figure 4.3: Existing main switch board

### 6.2.3 Existing Telstra Tower



Figure 4.4: Telstra Tower

Existing Telstra to be removed and relocated to new proposed location. Refer to Axicom design drawing for detail.



### 6.3.1 Electrical Distributor Infrastructure

[illegible]

Figure 4.6: Site Infrastructure considerations

## Kiosk Requirements

Existing kiosk located along Stone Mason Drive to remain no upgrade required for the kiosk. Refer to Level 3 ASP consultant authority upgrade design work drawings for further detail. The new development requires a total demand of ~760 amps per phase three phase. \* refer to the authority connection offer letter received Feb 2022, in the Appendix-A below.

### Cabling infrastructure

New inground main consumer cabling from the kiosk to the pillar and MSB to be installed for the new load, currently 2 No sets of 300mm<sup>2</sup> cables are installed. A Level 2 Accredited Service Provider (ASP) is required to instal the new connection to the MSB. Refer to drawing for detail. 2-off new inground submain cable from the MSB to MDB. Refer to drawing for detail. New electrical pits as indicative on drawing.



### 6.3.2 Main Switchboard

Existing outdoor main switch board (MSB) located along Stone Mason Drive (middle of the site- side of Facility Entry Plaza/ Between stage 1 "Community Facility and Grandstand" and stage 2 "Parramatta Eels COE"). Refer to the sitewide electrical drawing for the existing location.

### 6.3.3 Distribution Boards

2-off main distribution boards (MDB's) to be installed for each stage (1-off MDB for stage 1 "Community Facility and Grandstand" and 1-off MDB for stage 2 "Parramatta Eels COE")

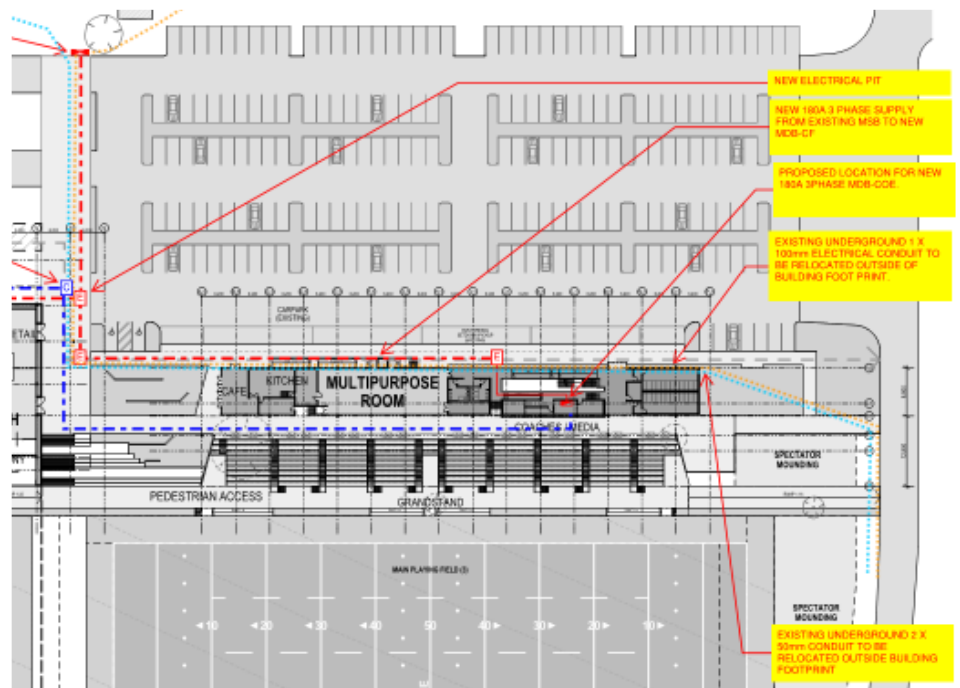


Figure 4.7: Stage 1 Cable routes and preliminary capacities

#### Stage 1 "Community Facility and Grandstand"

- New main distribution board (MDB) to be installed in proposed location, wired back to the MSB
- New adjustable ~180 amps 3 phase MCB
- Additional distribution boards will be provided for areas such as kitchen, café and specialist areas. All additional distribution boards will be wired back to the MDB.

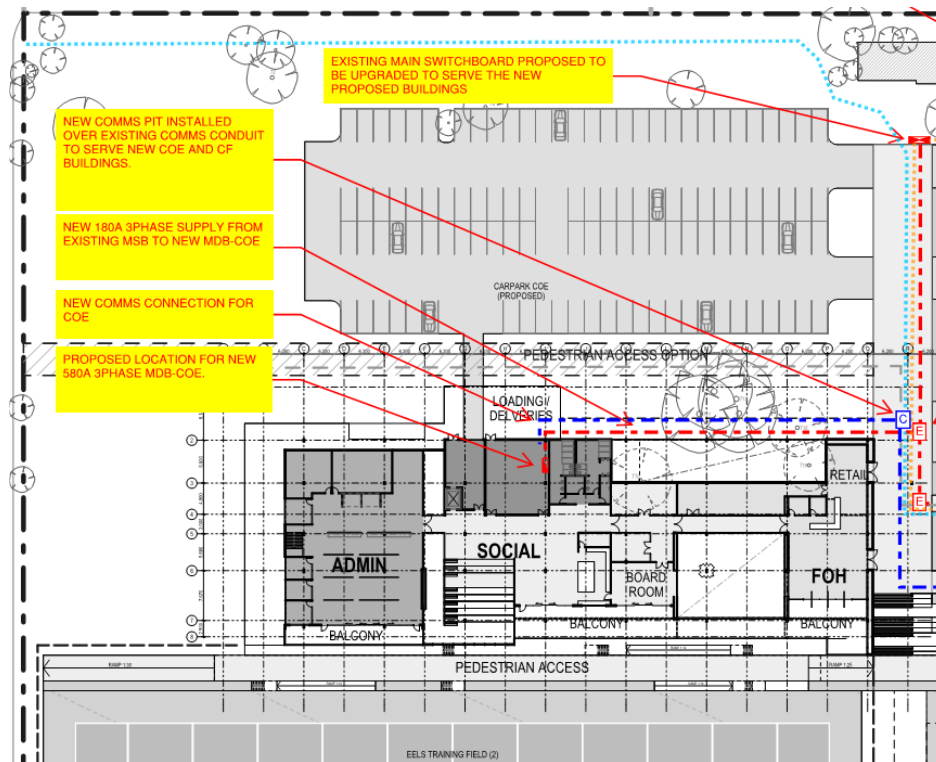


Figure 4.8: Stage 2 Cable routes and preliminary capacities

## Stage 2 “Parramatta Eels COE”

- New main distribution board (MDB) to be installed in proposed location, wired back to the MSB
- New adjustable ~580 amps 3 phase MCB
- Additional distribution boards will be provided for areas such as kitchen, café and specialist areas. All additional distribution boards will be wired back to the MDB.

### ▪ Communications Service Provider Infrastructure – NBN Co and Telstra

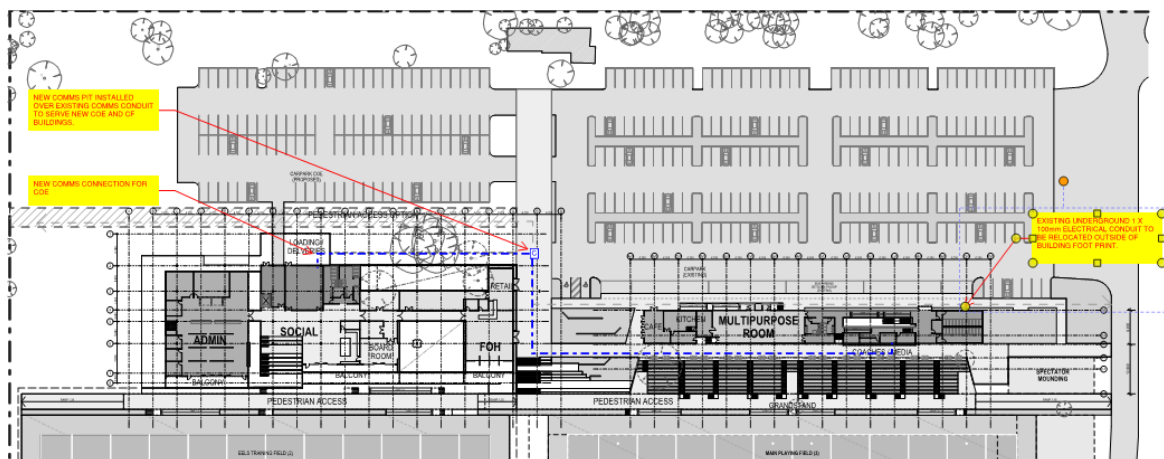


Figure 4.9: Stage 2 Cable routes

Separated new incoming communications (NBNCo and Telstra) for the site (stage 1 and stage 2). Refer to the drawing for detail.

Telstra/NBNCo lead-in cables connected from the communications pit along Memorial Avenue via underground white conduits and pits (Telstra/NBNCo approved).

Cabling and communications outlets (passive only) will be installed throughout the building. Refer to drawing for detail.

The active equipment will be provided by client/ICT.

## **6.4      APPENDIX A - Permission to connect (PTC) / connection offer letter**

18 February 2022



**Endeavour Energy Ref: UCL10961**

Parramatta National Rugby League Club  
PO Box 1750  
NORTH PARRAMATTA NSW 2666

## **CONNECTION OFFER – BASIC CONNECTION SERVICE**

Dear Sir/Madam

### **UCL10961 – LOT DP MEMORIAL DRIVE, KELLYVILLE**

Thank you for your application providing information for the proposed new connection of load at the above location.

The attached Permission to Connect letter gives approval for connection of the total approved load of **763 amps per phase** to Endeavour Energy's low voltage network in accordance with the Terms and Conditions of the published Model Standing Offer for a LV Basic Connection Service.

This Permission to Connect is effective from **18 February 2022** and is valid for a period of twelve months.

You or your electrician will need to contact a Level 2 Accredited Service Provider (ASP) to install a service and connect your installation to our network.

A list of Level 2 ASPs is available at the Energy NSW website:

<https://energysaver.nsw.gov.au/households/you-and-energy-providers/installing-or-altering-your-electricity-service> or can be obtained via phone (02) 8275 1960.

When the service work is undertaken by the appointed ASP, they must submit Notification of Service Works (NOSW) and the Certificate of Compliance for Electrical Works (CCEW) within 2 days. An audit fee is applicable as detailed in the Network Price List. This fee will be charged to your ASP in accordance with the terms and conditions relevant to the connection offer.

Please contact your retailer to arrange for the installation of metering and establish an appropriate electricity tariff.

Please note that this letter does not allow release of plans from the Constituent Council or from your Private Certifier.

Endeavour Energy will pass the basic connection offer fee as detailed in our Price List to your retailer who may invoice you directly.

Should you have any enquiries regarding your application please contact the undersigned.

Yours faithfully,

A handwritten signature in black ink, appearing to read "R. Lal".

Ravi Lal | Contestable Works Engineer | Ph: 98535626  
Email: cwtech@endeavourenergy.com.au

# **PERMISSION TO CONNECT**

## ***New Connection***



**Date: 18 February 2022**

**Ref: UCL10961**

**NMI: 4311351029**

Applicant (Name)      Parramatta National Rugby League Club

Proposed Location:    Lot DP Memorial Drive  
                                 KELLYVILLE

### **Connection Requirements:**

Permission to Connect to the Endeavour Energy network is given for the address shown above.

The Permission to Connect is for the load applied for by the Applicant subject to the following conditions:

- Total approved load of **763 amps per phase**
- Connection of **three phase**

### **The nominated Endeavour Energy asset connection point/s:**

☒ **Substation nos. 54566**

Changes to any of the above conditions will require specific approval from Endeavour Energy.

**Date issued: 18 February 2022**

This Permission to Connect is for the single point of connection included in your application.

This Permission to Connect must be returned to Endeavour Energy by your ASP with the Notice of Service Work (NOSW) and all other required documents within 2 days of connecting the installation.

Ravi Lal  
Contestable Works Engineer  
Ph: 98535626  
Email: [cwtech@endeavourenergy.com.au](mailto:cwtech@endeavourenergy.com.au)



### **Sydney**

Level 1,  
15 Atchison Street  
St Leonards NSW 2065  
+612 9437 1022

### **Melbourne**

Level 3,  
116 Hardware Street  
Melbourne VIC 3000  
+613 9111 2290

### **Manila**

Suite 2403, Union Bank Plaza  
Meralco Avenue Ortigas Centre  
Pasig City Philippines 1605

[general@erbas.com.au](mailto:general@erbas.com.au) | [erbas.com.au](http://erbas.com.au) | [erbasSUSTAIN.com.au](http://erbasSUSTAIN.com.au)



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