



Catholic Church Diocese of Maitland Newcastle

## Operational Waste Management Plan

Stage 1- Catherine McAuley Catholic College

December 2020

ENGINEERING  
PLANNING  
PROJECT MANAGEMENT  
SURVEYING  
CERTIFICATION

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Checked	LW
Approved	BM

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1	Draft	26/11/2020	
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This report is for development application purposes only and is not to be relied upon for construction purposes. The waste calculations included in the report are an estimate only, based on the plans and documents supplied by the client and waste generation guidelines from Council, the EPA and other third parties. This report is a guideline only and should not be used as a basis for feasibility studies, safety procedures, operational costs, demolition / construction estimates or bills of quantities. Should waste generation be higher than expected, the site manager shall make appropriate adjustments to accommodate additional waste. Any equipment recommended in this report shall be assessed by the supplier and site manager to determine it is fit for the intended purpose.



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## Appendices

Appendix A – Waste Management Site Plan

## 1 Author and Project Details

### AUTHOR DETAILS

Name	Barker Ryan Stewart
Address	Studio 5, 78 York Street, East Gosford
Phone number(s)	02 4325 5255
Email	coast@brs.com.au

### DEVELOPMENT DETAILS

Project Details	Stage 1 - Catherine McAuley Catholic College
Address of Development	2 Kingfisher Close, Medowie; and 507 Medowie Road, Medowie
Description of development	Stage 1: Early Education Centre (40 children), high school (one building accommodating interim occupation of 270 students) and chapel.

This development achieves the waste objectives set out in the DCP. The details on this form are the provisions and intentions for minimising waste relating to this project. All records demonstrating lawful disposal of waste will be retained and kept readily accessible for inspection by regulatory authorities such as council, OEH or WorkCover NSW.

Contact Name	Ben Miller
Date	26/11/2020

## 2 Purpose of Report

This report has been prepared to address the following condition of Development Consent as detailed below:

### Operational Waste Management Plan

- E23. Prior to the issue of an Occupation Certificate, the Applicant must prepare a Waste Management Plan for the development and submit it to the Principal Certifying Authority. The Waste Management Plan must:
- (a) detail the type and quantity of waste to be generated during operation of the development;
  - (b) describe the handling, storage and disposal of all waste streams generated on site, consistent with the *Protection of the Environment Operations Act 1997*, *Protection of the Environment Operations (Waste) Regulation 2014* and the *Waste Classification Guideline* (Department of Environment, Climate Change and Water, 2009);
  - (c) detail the materials to be reused or recycled, either on or off site; and
  - (d) include the Management and Mitigation Measures included in Part 10.13 of the EIS and as modified in the Response to Submissions.

### Operational Waste Storage and Processing

- E24. Prior to the issue of an Occupation Certificate, the Applicant must obtain agreement from Council for the design of the operational waste storage area where waste removal is undertaken by Council.

### 3 Council Requirements

As Port Stephens Council do not provide waste management objectives within the Port Stephens Development Control Plan 2014, this WMP has been prepared having regard for the specific waste management objectives of the NSW Waste Avoidance and Resource Recovery Strategy 2014- 21 Guidelines, which are:

- *Avoid and reduce waste generation;*
- *Increase recycling;*
- *Divert more waste from landfill;*
- *Manage problem wastes better;*
- *Reduce litter; and*
- *Reduce illegal dumping*

Further the Environment Protection Authority (EPA) and other Council's guidelines have been used to guide waste generation rates and options for waste management and collection.

### 4 Demolition and Construction

Demolition and construction waste generation has been addressed in the approved WMP prepared by Barker Ryan Stewart dated 16/04/2019 as part of the original development application.

### 5 Ongoing Operation

#### 5.1 Waste Generation

The tables below show the expected waste generation from Stage 1 of the development.

As Port Stephens Council do not have waste generation rates for school developments within their DCP, the waste generation rates were taken from Randwick City Council Waste Management Guidelines as they provide a comprehensive range of uses and rates.

Waste for the school has been determined on a per student basis of 0.5L per student per day (recycling) and 1.5L per student per day (general waste). This does not account for waste generated by teachers however so an allowance has been provided to ensure the bins can accommodate total waste generated.

Waste associated with the Chapel building has been determined on a per square metre basis utilising Randwick Council guidelines for places of worship. Note the chapel will service an interim Stage 1 number of visitors/ students therefore the inclusion of the entire GFA represents a conservative estimate of waste requirements.

Waste associated with the early learning centre has been determined on a per child basis guided by the following:

- 0-2 years 1L per child per day (recycling) and 7L per child per day (general waste); and
- 3-5 years 1L per child per day (recycling) and 1.5L per child per day (general waste).

This is based on experience with other early learning centres and associated waste management.



DCP REQUIREMENTS	RECYCLABLES	GENERAL WASTE	GREEN WASTE
High School - 270 Students (Block A)			
Amount generated (L per day)	135L	405L	Green waste will be reused on site or removed in the following bins provided: <b>2 x 1,100L</b>
Amount generated (L per week)	675L based on a 5 day week	2,025L based on a 5 day week	
Waste bins to be provided - High School	1 x 1,100L 2 x 240L (Food/ Organic) Removed weekly	2 x 1,100L Removed weekly	
Early Learning Centre - 40 Children (20 x 0-2 years and 20 x 3-5 years) (Block Q)			
Amount generated (L per day)	40L	170L	Green waste will be reused on site or removed with the green waste bins provided for the high school.
Amount generated (L per week)	200L based on a 5 day week	850L based on a 5 day week	
Waste bins to be provided - ELC	1 x 360L Removed weekly	1 x 1,100L Removed weekly	
Chapel - 762m <sup>2</sup> (Block B)			
Amount generated (L per day)	76.2L	381L	Green waste will be reused on site or removed with the green waste bins provided for the high school.
Amount generated (L per week)	152.4L based on usage of the facility 2 days per week	762L based on usage of the facility 2 days per week at full capacity	
Waste bins to be provided - Chapel	1 x 360L Removed weekly	2 x 360L Removed weekly Note the chapel will operate at a reduced capacity until further stages are completed therefore 720L bin volume will comfortably accommodate general waste generation associated with Stage 1.	

## 5.2 Waste Storage & Management

WASTE STORAGE and MANAGEMENT REQUIREMENTS	
Area for storage of bins	Block A, B and Q - bins will be stored external to the buildings within separate waste storage areas, refer to Appendix A for confirmation of locations. Storage areas have been designed to facilitate manoeuvring of bins to assist with kerbside collection.
Green Waste	2 x 1100L bins will be stored adjacent to Block A to service Stage 1. Other blocks will have access to these bins as required. As detailed above, any additional green waste will be reused on site as mulch or removed by a landscaping contractor as required or.
Food / Organic Waste	2 x 240L bins for food/ organic waste will be provided at Block A. Other blocks will have access to these bins as required.

WASTE STORAGE and MANAGEMENT REQUIREMENTS	
Specialised Waste	Specialised waste associated with science, woodwork, metalwork and art will be managed and disposed of separately within future stages as required by the EPA and other safety guidelines.
Bulky Waste	The school will be responsible for the disposal of waste that is too bulky to fit within their bins. Although this scenario is unlikely due to the large size of the waste and recycling bins, a specialised contractor or Groundsman can dispose to a recognised waste facility if required.
Floor area required for manoeuvrability	The storage areas have been designed to accommodate bins of the proposed size. This area incorporates sufficient room for safe bin lifting (with the use of a mechanical bin lift) and collection.
Height required for manoeuvrability	Provides sufficient overhead clearance, for bin lifters to transfer waste to larger bins and for manoeuvring by tugs or other vehicles to collection point.
Path of travel to bin collection points	<p><b>Block A</b> - path of travel is clear from storage area to the collection point in the main car park.</p> <p><b>Block B</b> - path of travel is clear from the storage area to the collection point in the main car park.</p> <p><b>Block Q</b> - path of travel is clear from the storage area to the collection point at the front of the building.</p>
Comment	<p><b>Recycle:</b> This development will provide adequate recycling bins to meet the minimum recycle requirements.</p> <p><b>General Waste:</b> This development will generally provide adequate waste bins to meet the minimum waste requirements. Provision of chapel waste will be slightly under the required bin numbers for occupancy of the entire building, however the chapel will function at approximately half capacity within Stage 1 and provided bin volume will be sufficient to service the building.</p>

### 5.3 On-going Waste Removal Procedures

- The Groundsman will transport waste from classroom/ internal and play area bins to the respective waste storage areas external to school buildings.
- The Groundsman will be allocated the responsibility of transporting the bins from Building A, B and Q storage areas to the kerbside collection points.
- The general, recycled, food and green waste will then be collected by a private waste contractor from the designated collection points prior to the school operating hours as identified in Figure 1 and Appendix A. The out of school hours collection is to ensure no conflicts with parents, staff or students.
- The path of travel from waste storage areas to collection points is level with no obstructions by way of fencing, stairs or unsuitable kerb profile.
- Details of the waste storage and collection points are shown on the waste plan in Appendix A.
- **Maintenance:** Management and cleaners shall be responsible for the maintenance of bin storage areas, signage and the security of the storage areas.
- **Hygiene:**
  - The site manager / cleaners should provide regular bin cleaning. This should include a specialised filtration service to ensure pollutants are collected and appropriately disposed in accordance with EPA Guidelines. A specialised contractor can be employed if required in this regard.
  - A bin cleaning area has been provided.

## 5.4 Education

- Intelligible signage will be erected in the garbage storage areas to identify which bins should be used for different waste and recyclable materials in accordance with the Councils waste minimisation policy.
- The Groundsman and cleaners will be supplied with a copy of this waste management plan to inform them on the concepts of waste minimisation and recycling.
- The Groundsman and cleaners will monitor the waste areas and report to school / site management on any issues that require rectification.

## 6 Waste Collection

An extract from the Site Plan identifying waste storage areas and kerbside collection points is provided in Figure 1. Refer to Appendix A for further detail.

Waste vehicles will enter the site from Meadowie Road and collect bins from the kerb in the locations identified in Figure 1. The internal road network and turning facilities are capable of accommodating the private waste vehicles proposed to service the site.

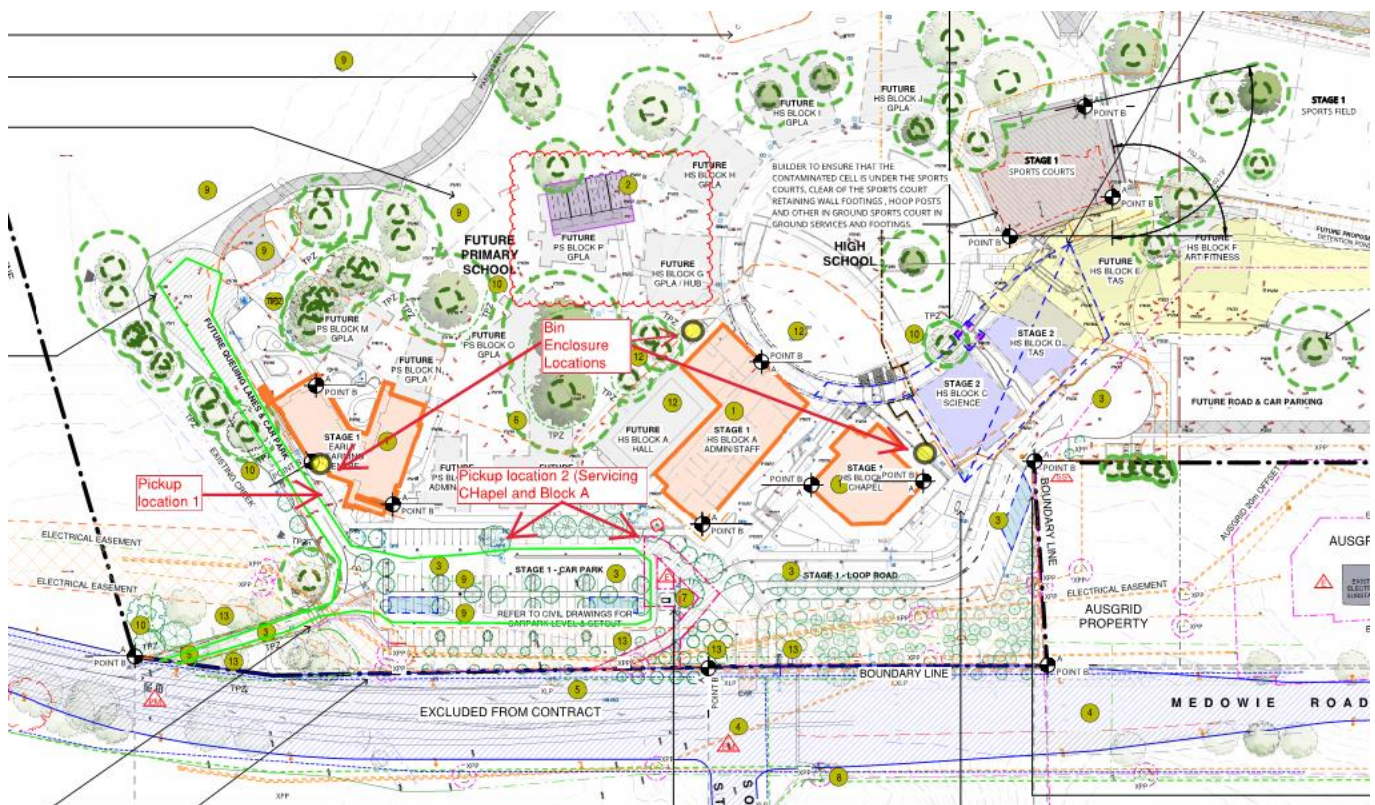


Figure 1: Extract from Site Waste Plan



## **Appendix A – Waste Management Site Plan**



SETOUT REFERENCE

BLOCK A

REFERENCE SHEET: 01\_0103  
SETOUT A1 = GRID B, 2  
SETOUT A2 = GRID H, 17

BLOCK B

REFERENCE SHEET: 01\_0201  
SETOUT B1 = F, 2  
SETOUT B2 = B, 6

BLOCK Q

REFERENCE SHEET: 03\_1703  
SETOUT Q1 = GRID E, 8  
SETOUT Q2 = GRID FF, 1A  
SETOUT Q3 = GRID DD, 2A

DETENTION POND TO CIVIL ENGINEERS DOCUMENTATION CONTRACTOR TO CREATE TEMPORARY STORMWATER POND IN THIS LOCATION DURING BULK EARTH WORKS

CONSTRUCT PERIMETER FIRE TRAIL TO CIVIL ENGINEERS DETAIL  
UNDERGROUND RETENTION TANK REFER CIVIL DOCUMENTATION

STAGE 1 STORMWATER REFER CIVIL DOCUMENTATION

SETOUT Q3

SETOUT Q2

SETOUT Q1

BOUNDARY CNR A - SETOUT Q1

BOUNDARY CNR A - SETOUT Q2

BOUNDARY CNR A - SETOUT Q3

BOUNDARY CNR A - SETOUT Q4

BOUNDARY CNR A - SETOUT Q5

BOUNDARY CNR A - SETOUT Q6

BOUNDARY CNR A - SETOUT Q7

BOUNDARY CNR A - SETOUT Q8

BOUNDARY CNR A - SETOUT Q9

BOUNDARY CNR A - SETOUT Q10

BOUNDARY CNR A - SETOUT Q11

BOUNDARY CNR A - SETOUT Q12

BOUNDARY CNR A - SETOUT Q13

BOUNDARY CNR A - SETOUT Q14

BOUNDARY CNR A - SETOUT Q15

BOUNDARY CNR A - SETOUT Q16

BOUNDARY CNR A - SETOUT Q17

BOUNDARY CNR A - SETOUT Q18

BOUNDARY CNR A - SETOUT Q19

BOUNDARY CNR A - SETOUT Q20

BOUNDARY CNR A - SETOUT Q21

BOUNDARY CNR A - SETOUT Q22

BOUNDARY CNR A - SETOUT Q23

BOUNDARY CNR A - SETOUT Q24

BOUNDARY CNR A - SETOUT Q25

BOUNDARY CNR A - SETOUT Q26

BOUNDARY CNR A - SETOUT Q27

BOUNDARY CNR A - SETOUT Q28

BOUNDARY CNR A - SETOUT Q29

BOUNDARY CNR A - SETOUT Q30

BOUNDARY CNR A - SETOUT Q31

BOUNDARY CNR A - SETOUT Q32

BOUNDARY CNR A - SETOUT Q33

BOUNDARY CNR A - SETOUT Q34

DRAWINGS COLOUR CODED  
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BUILDER TO CONFIRM ALL DETAILS, SETOUTS (FILE, BUILDING, ETC.), FALLS, DIMENSIONS & CONNECTIONS ON SITE PRIOR TO CONSTRUCTION

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1 SITE PLAN - OVERALL - STAGE 1

SCALE 1 : 1000

NOTES - STAGE 1

- REFER TO THE DETAILED SURVEY PLAN (PREPARED BY PARKER SCANLON PTY LTD DATED 26.07.2019), FOR EXISTING LEVELS, BOUNDARIES, VEGETATION, SITE SERVICES, SITE EASEMENTS, BUILDINGS & INFRASTRUCTURE.
- REFER TO CIVIL ENGINEER'S DOCUMENTATION FOR REQUIRED BENCHMARK LEVELS AND EXTENT OF CUT/FILL, SEDIMENTATION & EROSION CONTROL PLANS, STORMWATER PLANS, STORMWATER MANAGEMENT PLAN, AND THE PROPOSED ROADWORKS & DRAINAGE PLANS.
- REFER TO THE TRAFFIC IMPACT ASSESSMENT REPORT PREPARED BY SECA SOLUTION DATED 08.04.2019.
- REFER TO THE BUSHFIRE ASSESSMENT REPORT (PREPARED BY NEWCASTLE BUSHFIRE CONSULTING ON THE 04.03.2019), FOR SITE ASSESSMENT, SITE SERVICES, SETBACKS, ATTACK LEVELS, EMERGENCY PROCEDURES & ACCESS.
- REFER TO HISTORICAL HERITAGE ASSESSMENT REPORT AND CULTURAL HERITAGE MANAGEMENT PLAN (PREPARED BY BIOSIS), FOR HISTORICAL CONTEXT, ABORIGINAL PAST, ARCHAEOLOGICAL ASSESSMENT AND LEVELS OF SIGNIFICANCE.
- REFER TO THE ARBORICULTURAL IMPACT ASSESSMENT REPORT (PREPARED BY JOSEPH PIDUTTI CONSULTING ARBORIST DATED 05.12.2017), FOR SITE INVESTIGATIONS, LIMITATIONS, TREE PRESERVATIONS & IMPACTS OF THE DEVELOPMENTS.
- REFER TO THE BIODIVERSITY DEVELOPMENT ASSESSMENT REPORT AND VEGETATION MANAGEMENT PLAN (PREPARED BY BIOSIS), FOR LANDSCAPE CONTEXT, NATIVE VEGETATION, IMPACT PRESENTATION, AND BIODIVERSITY CREDITS.
- REFER TO THE GEOTECHNICAL INVESTIGATION REPORT (PREPARED BY VALLEY CIVILAB DATED 20.11.2017), FOR SITE INVESTIGATIONS, SUBSURFACE CONDITIONS, SITE CLASSIFICATION, LABORATORY TESTS, EARTHWORKS, ACID SULFATE SOILS, AND LIMITATIONS.
- REFER TO THE ELECTRICAL ENGINEER'S DOCUMENTATION FOR SITE AND BLOCK SPECIFIC ELECTRICAL DESIGN, POWER, AV AND LIGHTING
- REFER TO THE HYDRAULIC ENGINEER'S DOCUMENTATION FOR SITE HYDRAULIC DESIGN, INCLUDING SEWER, WATER, GAS SUPPLY AND WASTE.
- REFER TO THE LANDSCAPE ARCHITECT'S DOCUMENTATION FOR LANDSCAPE DESIGN PRINCIPLES, PLANTING STRATEGY, PLANTING PALETTE, ACCESS & CIRCULATION, WAY FINDING & ENTRY SIGNAGE, MATERIALS & FINISHES, DETAILED LANDSCAPE PLANS & SECTIONS.
- REFER TO CONTAMINATION ASSESSMENT & REMEDIATION ACTION PLAN (PREPARED BY VALLEY CIVILAB), FOR SITE INVESTIGATION, HAZARDOUS MATERIAL AUDIT, GROUNDWATER, ACID SULFATE SOILS AND SOIL ASSESSMENTS, AND REMOVAL OF CONTAMINATION ACTION PLAN.
- REFER TO THE FLOOD RISK & IMPACT ASSESSMENT REPORT (PREPARED BY BMT WBM PTY LTD DATED 05.03.2018), FOR FLOOD IMPACTS, AND EMERGENCY MANAGEMENT.
- REFER TO IMPACT ASSESSMENT REPORT (PREPARED BY KEY INSIGHTS PTY LTD DATED FEBRUARY 2018), FOR COMMUNITY PROFILE, FINDINGS AND ANALYSIS.
- PREPARATION OF SITE MANAGEMENT PLANS ARE REQUIRED AS PART OF THE CONDITIONS OF CONSENT. THESE INCLUDE AND ARE NOT LIMITED TO:
- REMEDIATION ACTION PLAN
  - ABORIGINAL CULTURAL HERITAGE ASSESSMENT (COORDINATION ON SITE ONLY)
  - ARCHAEOLOGICAL REPORT (COORDINATION ON SITE ONLY)
  - CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN
  - ECOLOGICAL MANAGEMENT PLAN
  - VEGETATION MANAGEMENT PLAN
  - ACID SULFATE SOIL MANAGEMENT PLAN
  - CULTURAL HERITAGE MANAGEMENT PLAN
  - STORMWATER MANAGEMENT PLAN
  - OPERATIONS AND MAINTENANCE PLAN
- REFER TO THE ENVIRONMENTAL IMPACT STATEMENT (EIS).
- REFER TO THE LEVEL 3 ASP ELECTRICAL ENGINEERS DOCUMENTATION FOR INFORMATION REGARDING KIOSK LOCATIONS, SITE POWER, AUSGRID CONNECTION AND RELOCATION OF EXISTING SERVICES AND MAXIMUM POWER DEMANDS

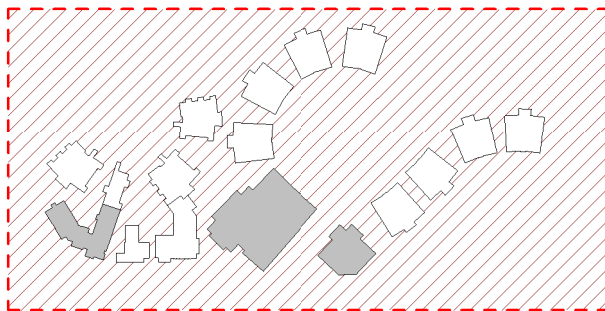
SCOPE OF WORKS - STAGE 1

1. PROPOSED STAGE 1 BLOCK A, B AND Q BUILDINGS AND ASSOCIATED SERVICES, LANDSCAPING AND CIVIL WORKS. REFER TO ARCHITECTURAL AND CONSULTANT DOCUMENTATION.
2. **NOTE DELETED**
3. STAGE 1 CAR PARK AND ASSOCIATED WORKS. REFER TO CIVIL ENGINEERS DOCUMENTATION.
4. ROAD WORKS UPGRADE NOT PART OF SCOPE. REFER TO CIVIL, ELECTRICAL, HYDRAULIC, ARBORIST, LEVEL 3 ASP, SURVEYOR, AND ECOLOGICAL DOCUMENTATION FOR SITE COORDINATION.
5. SITE VEHICLE ENTRY TO CAR PARK AND BUS DROP OFF.
6. **NOTE DELETED**
7. ELECTRICAL KIOSK SUBSTATION TO BE INSTALLED (ALSO LOCATION OF FUTURE KIOSK) REFER TO ELECTRICAL ENGINEERS DOCUMENTATION.
8. EXISTING HIGH VOLTAGE SWITCH METER TO BE RELOCATED. REFER TO LEVEL 3 ASP ELECTRICAL DOCUMENTATION.
9. DETENTION POND OR TANK, STORMWATER LINES & INTEGRATED PITS TO CIVIL ENGINEERS DOCUMENTATION.
10. DEMARCATION OF ENVIRONMENTAL SENSITIVE AREAS SUCH AS THE CREEK RIPARIAN SETBACK, & TREE PROTECTION ZONES.
11. **NOTE DELETED**
12. STAGE 1 HIGH SCHOOL PLAY SPACE.
13. ENTRY FENCE AND SIGNAGE. REFER TO LANDSCAPE ARCHITECT DETAILS.

SITE LEGEND - GENERAL

- EXISTING STRUCTURE
- EXTENT OF STAGE 1 WORKS
- EXTENT OF STAGE 2 WORKS
- EXISTING POWER POLE WITH 2.1M CONSTRUCTION CLEARANCE
- FUTURE WORKS
- POWER LINES
- TREE PROTECTION ZONE (TPZ)
- WORKS EXCLUDED FROM SCOPE
- AUSGRID EARTHING SETBACKS FROM INTERNAL AUSGRID FENCE. 4M, 20M & 85M. REFER TO SAFE EARTH ASSESSMENT.

LOCATION PLAN



SITE LEGEND - TREES

- EXISTING TREE - REFER TO ARBORIST, BUSHFIRE & VEGETATION REPORTS. TO BE RETAINED AND PROTECTED.
- HOLLOW BEARING TREE - REFER TO ARBORIST, BUSHFIRE & VEGETATION REPORTS. TO BE RETAINED AND PROTECTED.
- DEMOLISHED TREE - REFER TO ARBORIST, BUSHFIRE & VEGETATION REPORTS.
- NEW TREE - REFER TO LANDSCAPE DRAWINGS FOR FULL DETAILS.

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