

Parramatta East Public School Upgrade 30-32 Brabyn Street, North Parramatta NSW Stormwater Management Report

22-107 | 27 February 2025 | Revision F

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Document control

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1.0 Executive Summary

This Stormwater Management Report has been prepared for the upgrade of Parramatta East Public School (PEPS) at 30-32 Brabyn Street, North Parramatta, commissioned by the NSW Department of Education. The upgrade aims to replace outdated facilities and meet the growing educational demands of the Collet Park precinct and the broader North Parramatta area. The report assesses the stormwater management aspects of the activity to ensure compliance with regulatory requirements and to mitigate potential environmental impacts.

The proposed activity includes:

- Construction of a new three-story school building (Block R), upgraded playgrounds, a new carpark, and a formalized waste storage area.
- Refurbishment of existing buildings and removal of structures no longer fit for purpose.

The site spans approximately 1.7 hectares and features a slope from north to south. The stormwater management system is designed in accordance with the City of Parramatta (CoP) Development Control Plan 2023, addressing water management, flood risks, and environmental quality standards. Key measures include:

- **Flood Management:** The site is not affected by mainstream flooding, with minor overland flow managed via grassed swales and an engineered drainage system.
- **Stormwater Drainage Network:** A below-ground pit and pipe network collects runoff, directing it to the rainwater and OSD tanks.
- **Rainwater Tank:** A 20kL rainwater tank is proposed to collect clean roof stormwater for re-use.
- **OSD Tank:** A 170m³ On-Site Detention (OSD) tank to limit post-development peak stormwater discharge rates to pre-development rates.
- **Water Quality Improvement:** Treatment devices, including an Ocean Protect stormfilter, achieve high pollutant reduction levels.
- **Sediment and Erosion Control:** Measures such as silt fences and sediment traps will be implemented during construction.

Mitigation measures are incorporated to address potential risks, including local flooding, erosion, and pollution. The proposed system limits stormwater discharge rates to pre-development levels, ensuring minimal impact on the local environment and downstream council assets.

In conclusion, the proposed stormwater management strategy effectively addresses flooding, water quality, and environmental concerns. It complies with regulatory requirements and supports sustainable development while minimizing risks to the community and the environment.

2.0 Introduction

This Stormwater Management Report has been prepared by Woolacotts on behalf of the NSW Department of Education to assess the potential environmental impacts that could arise from the Parramatta East Public School (PEPS) upgrade (the Activity) at 30-32 Brabyn Street, North Parramatta (the site). The activities are proposed by the NSW Department of Education to meet the growth in educational demand in Collet Park precinct, and the broader North Parramatta area.

This report has been prepared to provide input into the stormwater management aspects of the proposed activity.

3.0 Summary of The Activity

The activity comprises upgrades to PEPS to provide replacement teaching facilities in place of the existing temporary and permanent facilities that are no longer fit for purpose, involving the following works:

- Site preparation and required earthworks;
- Demolition of existing Buildings C, D, E and F, and associated structures including adjacent ramps and walkways;
- Construction of the following:
 - A new 3-storey school building (referred to as Block R) including teaching spaces, library/administration, and staff/student amenities;
 - Upgrade of soft and hard landscape and playground areas;
 - A new at-grade parking area;
 - Formalised waste area, with access being retained from Gaggin Street;
 - Public Domain Works with upgrades to the pedestrian access south of the school, and new kiss and ride zone on Albert Street East;
 - Entrance and School logo signage along the Northern Albert Street East frontage of Block R;
- Refurbishment works to existing buildings;
- Removal of trees as required and retention where possible; and
- Installation and augmentation of services and infrastructure as required.

Refer to the Review of Environmental Factors prepared by Ethos Urban for a full description of works.

4.0 Site Description

The site is located at Brabyn Street within the City of Parramatta Local Government Area. Parramatta East Public School is located in the suburb of North Parramatta, within the City of Parramatta Local Government Area (LGA). The site is approximately 1.5km northeast of the Parramatta CBD, and 24km west of the Sydney CBD.

The site currently comprises a single lot to make up Parramatta East Public School, referred to as Lot 100, DP1312418, and the land is owned by the Minister for Education and Early Learning.

The site has an area of approximately 1.782Ha, is of an irregular shape, and is bounded by Brabyn Street to the West, Albert Street East to the North, and Gaggin Street/Webb Street to the East. The project area is contained within the site and represents where the proposed works will be undertaken,

with an area of approximately 1.492Ha.

An aerial image of the site and project area is shown at Figure 1 below.



Figure 1 – Aerial Image of The Site
(SOURCE DOCUMENT: *Nearmap*).

5.0 Significance of Environmental Impacts

Based on the identification of potential issues, and an assessment of the nature and extent of the impacts of the proposed activity, it is determined that:

- The extent and nature of potential impacts are low and will not have significant impact on the locality, community and/or the environment.
- Potential impacts can be appropriately mitigated or managed to ensure that there is minimal impact on the locality, community and/or the environment.

6.0 Existing Conditions

The School contains a number of existing buildings along the northern boundary, eastern boundary, and western boundary, a number of demountable teaching spaces in the southwest corner of the site, and an existing car park at the southwest corner of the School. There is a large existing paved sports court in the northern part of the School and it is surrounded by the existing buildings within the site. Refer to Figure 2 below for the existing site plan.

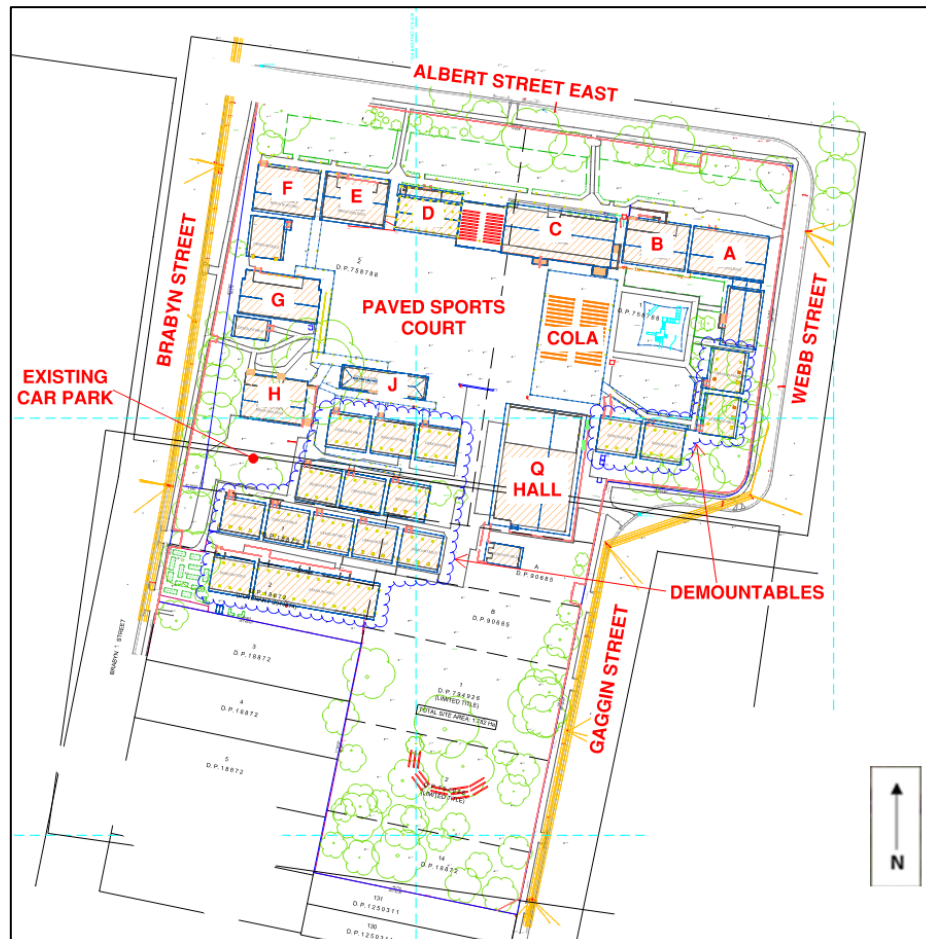


Figure 2 – Existing Site Plan

(Source: Digital Survey Solutions Utility Mapping, Job Reference: A2545, Drawing No. A2545-Detail, Sheet 1 of 3)

The site slopes from the north towards the south at a grade of approximately 5%-6%.

The proposed activity involves the demolition of existing buildings, the removal of existing demountable teaching spaces, the construction of a new building (Block R), a new staff carpark, a new waste storage area, and associated landscape areas. The proposed activity also includes refurbishing existing buildings. Refer to Figure 3 below for the proposed site plan.

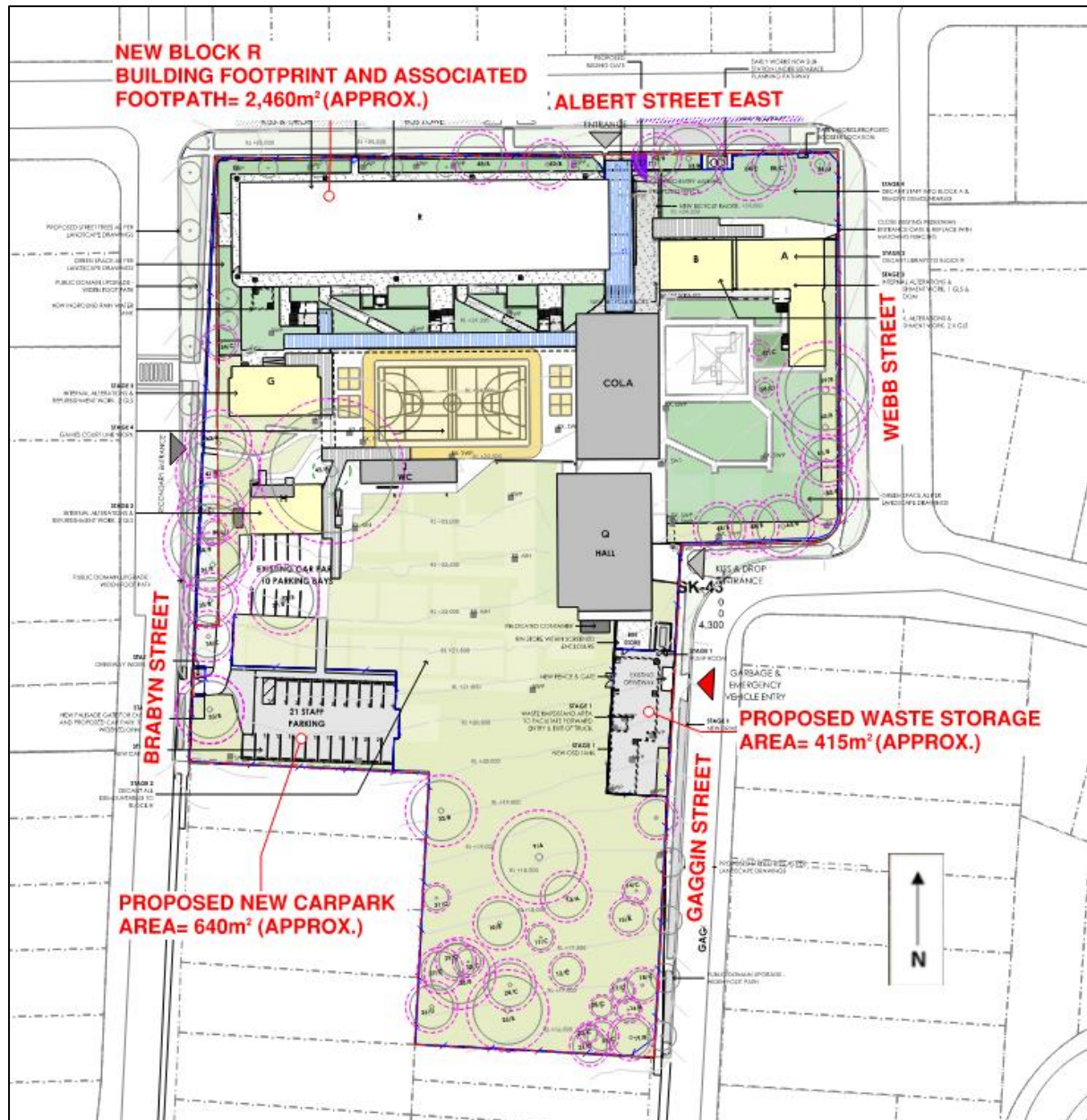


Figure 3 – Proposed Site Plan

(Source: JHD Architects, Job No. 1291, Sheet No. PEPS-JDH-ZZ-XX-DR-A-0012, Revision B)

8.0 Stormwater Management

As the School is located within the City of Parramatta (CoP) Local Government Area (LGA), it will be assessed under the CoP Development Control Plan (DCP) 2023 and other CoP planning documents. The CoP DCP 2023 and other planning documents contain a range of stormwater management conditions for new activities including requirements for flooding, on-site detention, water quality, water efficiency, and sediment and erosion control.

The CoP planning documents and Australian standards relating to stormwater management are as follows:

- CoP DCP 2023, Section 5.1 – Water Management
- CoP Floodplain Risk Management Policy
- CoP Stormwater Disposal Policy
- CoP Development Engineering Design Guidelines 2018 (DEDG 2018)
- CoP DTSU Stormwater & OSD documentation checklist
- UPRCT OSD Handbook 3rd/4th Edition
- AS3500.3-2021 Plumbing and drainage, Part 3: stormwater drainage
- Australian Rainfall and Runoff
- Managing Urban Stormwater – Soils and Construction Volume 1, 4th Edition

8.1 Flooding

The Parramatta River Flood Study (Reference number: 59916074/304600102, dated 13th June 2024) shows that the site is not impacted by riverine flooding from the Probable Maximum Flood (PMF) event (*Note: The PMF is the largest flood that could conceivably occur at a particular location. The PMF defines the extent of the floodplain*). Riverine flooding occurs when heavy rainfall causes the water levels in a river to rise and escape the main channel. Refer to Figure 4 below for the PMF extent near the site.

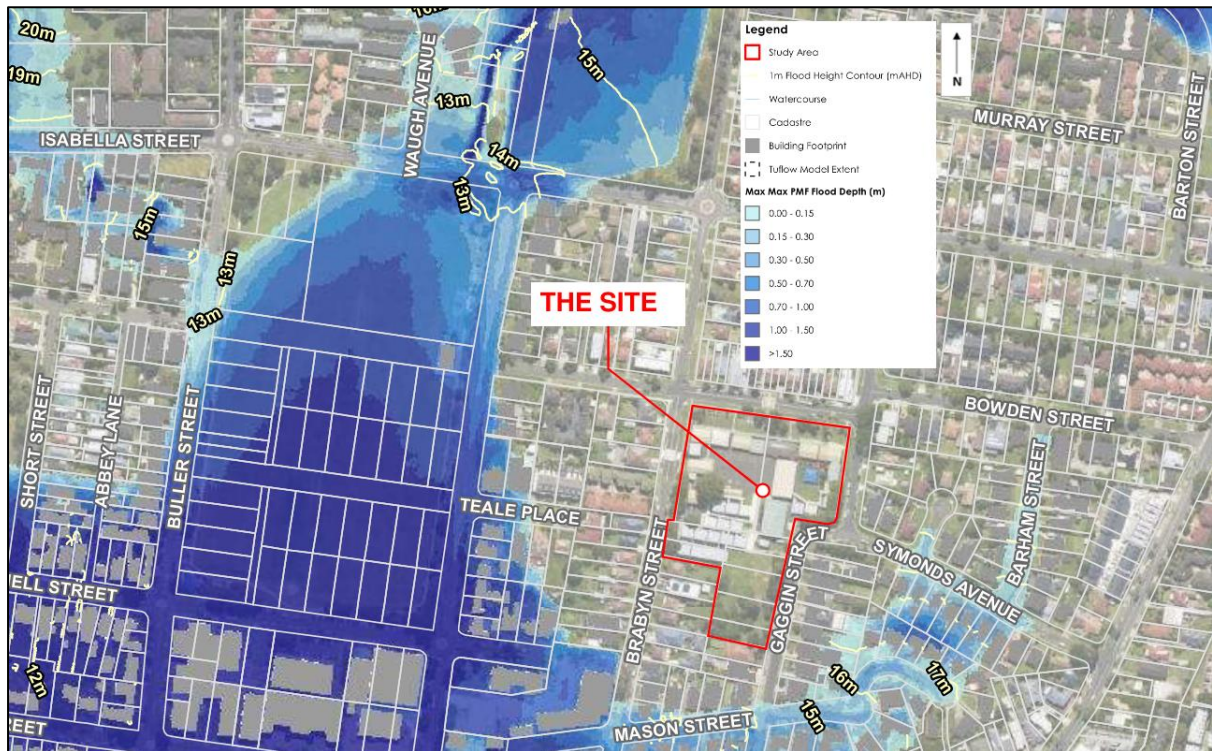


Figure 4 – Probable Maximum Flood Extent

(Source: The Parramatta River Flood Study (Reference number: 59916074/304600102, dated 13th June 2024))

Upon review of the existing topographic information around the proposed site, the site is not impacted by overland flow flooding from the upstream catchments of the site. Refer to Figure 5 below for the overland flow path plan.

The proposed new activity may be affected by minor local overland flow and overland flow paths have been provided to divert stormwater to the downstream pit/pipe network before discharging into the Council drainage system.

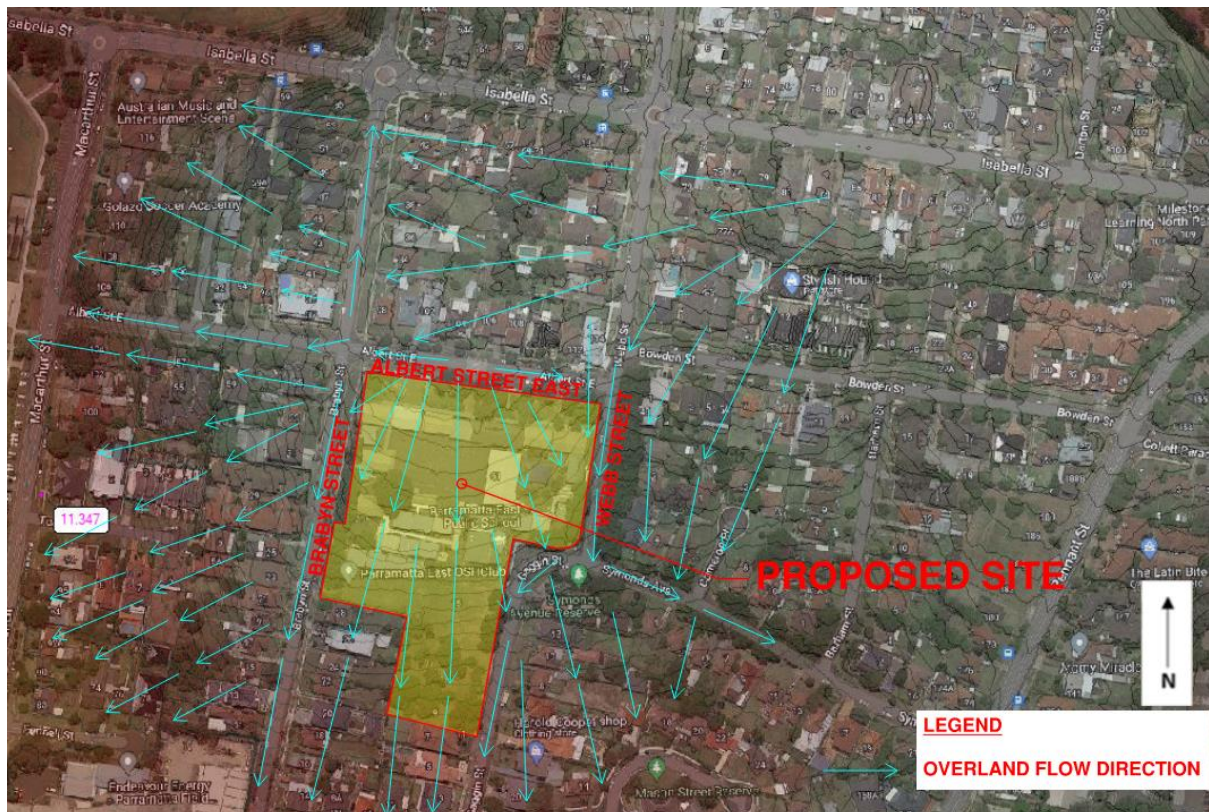


Figure 5 – Overland Flow Path Plan

8.2 Stormwater Drainage Network

The proposed stormwater drainage network for the site consists of a below-ground pit and pipe network collecting runoff from the roof, paved areas and landscape areas. This network has been sized for the 1% AEP storm event.

The roof area is directed to a below ground 20KL rainwater tank located in the garden area at the southwest corner of the new Block R building. Overflow from the rainwater tank discharges via a stormwater pipe to an On-site Detention (OSD) tank located in the new waste storage area at the southeast side of the site.

The OSD tank contains water quality devices that treat the stormwater runoff before it is discharged into the Council's street drainage system at the street kerb on the eastern side of Gaggin Street.

8.3 On-Site Detention (OSD) / Rainwater Tank

As part of the planning process, we engaged with the local Council to ensure compliance with the OSD requirements specific to this project. Our discussions with the Council confirmed that OSD is required for new commercial / industrial developments, and public buildings. Therefore, an on-site stormwater detention system is proposed for the proposed activity.

As a direct connection to the council kerb and gutter is proposed, On-Site Detention (OSD) storage, Permissible Site Discharge (PSD) and water quality targets need to comply with the CoP Development Engineering Design Guidelines 2018 (DEDG 2018).

The site is in the Toongabbie Creek & Brickfield Creek catchment based on DEDG 2018, Figure 4 – OSD Catchment of former Parramatta City area. The total area of the proposed activity within the site

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is approximately 3,515m². OSD storage and PSD requirements for the proposed activity are based on the Toongabbie Creek & Brickfield Creek catchment for the 1% AEP storm event, shown in Table 1 of (DEDG 2018). These are:

- OSD Storage = 165.2m³
- PSD = 28.12L/s

Refer to Appendix B for the OSD Catchment Plan.

An OSD tank of 170m³ is proposed within the new waste storage area at the southeastern side of the School. The OSD tank has a 114mm diameter orifice to meet the PSD requirements. The outlet of the OSD tank discharges to the kerb at Gaggin Street. The stormwater discharge rate to the kerb at Gaggin Street will be less than PSD and 30L/s. Refer to Appendix A – Civil Works Drawings for further information.

A minimum 20kL below-ground rainwater tank is proposed for reuse. This tank will be located within the garden area at southwest corner of the new Block R building. All the roof areas will be directed to the rainwater tank. Roof guttering, downpipes and associated pipework are to be sized for the 1% AEP storm event.

In the event of a blockage to the outlet of the OSD system, the grate is designed to surcharge and convey flows towards Gaggin Street.

The total impervious area bypassing the OSD system is less than 10% of the proposed activity area. Refer to the OSD Catchment Plan Sketch in Appendix B.

8.4 Water Quality

Stormwater treatment is required for all new commercial and industrial developments. This will require water quality modelling and a combination of primary, secondary and tertiary treatment devices.

Section 5.1.2 of CoP Development Control Plan (DCP) 2023 outlines water quality requirements for all new commercial, industrial, and other non-residential developments with direct stormwater connection to the council's assets. These requirements are summarised below:

- 45% reduction in Total Nitrogen (TN)
- 65% reduction in Total Phosphorus (TP)
- 85% reduction in Total Suspended Solids (TSS)
- 90% reduction in Gross Pollutants

The proposed stormwater drainage system has been designed to incorporate treatment devices that ensure the quality of discharged water meets the requirements outlined above. These treatment devices include gross pollutant traps, a rainwater tank, an OSD tank, and secondary treatment devices.

The proposed 20m³ rainwater tank allows for water re-use, reducing the volume of stormwater runoff entering Council's drainage system.

The OSD tank manages excess runoff generated by newly constructed impervious areas. The OSD's outlet restricts the outflow of runoff leaving the site.

Details of the catchment areas input values are outlined in Figure 6.

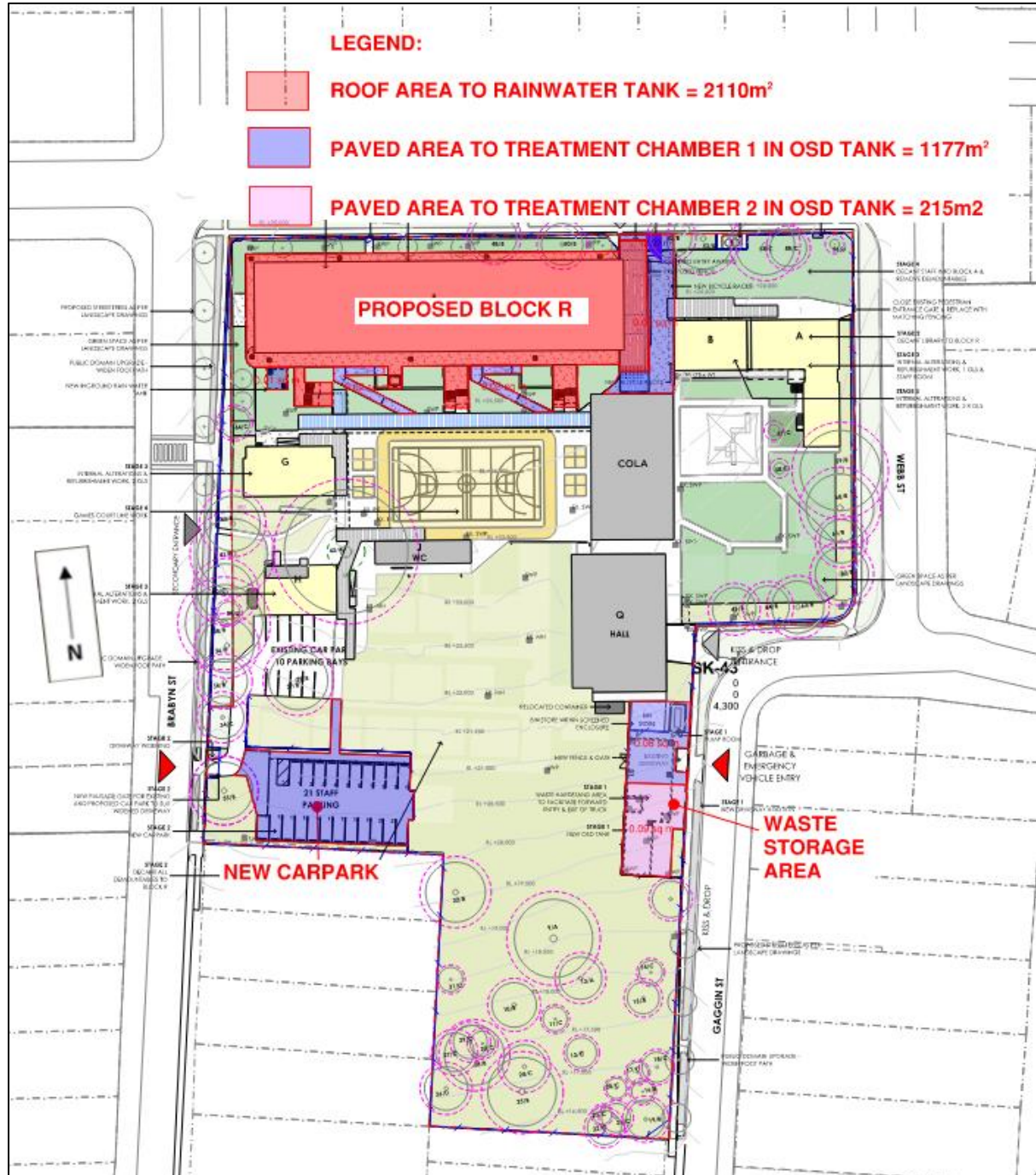


Figure 6. Roof and Non-roof Areas Utilised in MUSIC Model

A Model for Urban Stormwater Improvement Conceptualisation (MUSIC) has been developed as a conceptual design tool for the purpose of estimating generated pollution within the catchment area. The model has been used to demonstrate the performance of implemented stormwater quality improvement systems.

These treatment devices were modelled in MUSIC to determine the overall effectiveness of the proposed treatment train. The treatment rate achieved by the system is:

- Gross pollutants – 100% average annual load reduction
- Total suspended solids – 86.3% average annual load reduction
- Total Phosphorous – 79.4% average annual load reduction
- Total Nitrogen – 51.3% average annual load reduction

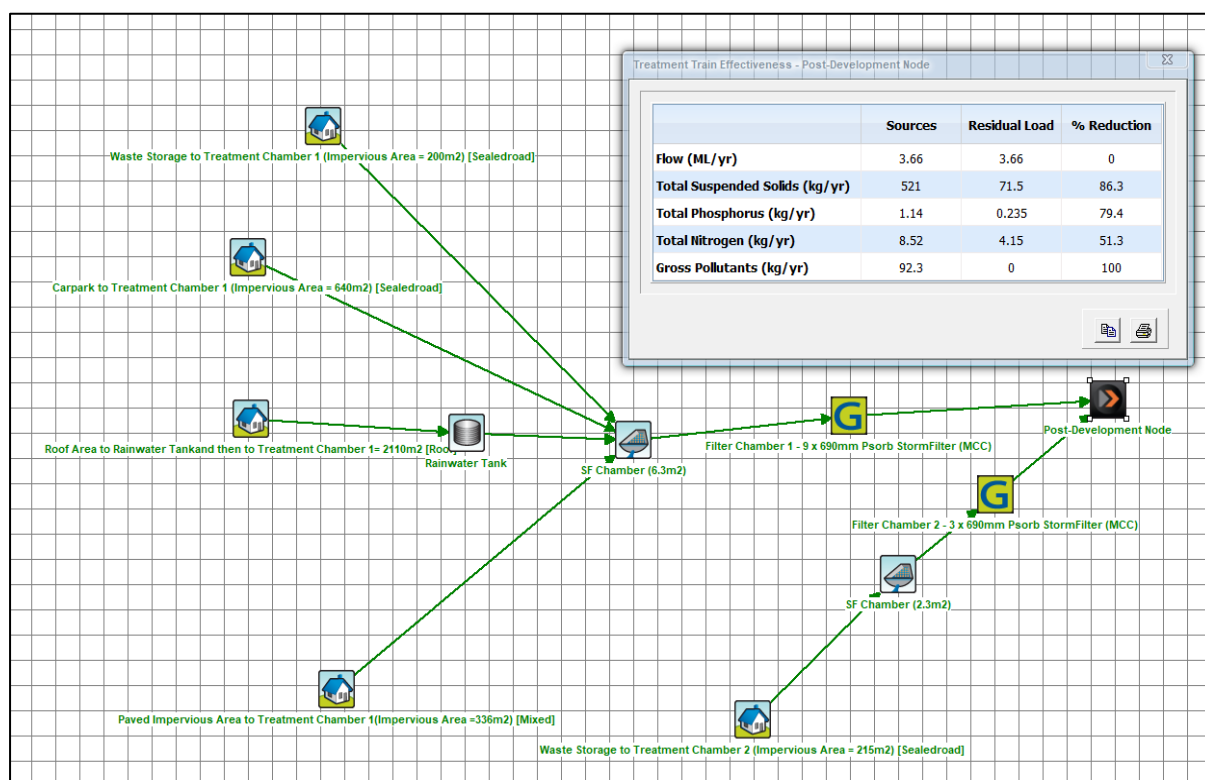


Figure 7: MUSIC Model Treatment Train

8.5 Sediment and Erosion Control

Erosion and sediment control measures will be provided during construction in accordance with the *Blue Book (Managing Urban Stormwater – Soils and Construction 4th Edition)*. Measures to be provided include.

- Silt fences on low side of site
- Construction exit
- Silt traps at new and existing pits.

Refer to Appendix A for erosion and sediment control plans and details.

9.0 Conclusion

The proposed stormwater management measures for the proposed site include a stormwater drainage network, rainwater tank, on-site detention, water quality treatment devices and grassed swales for overland flow.

The stormwater drainage network consists of a subsurface pit and pipe network to a rainwater tank/OSD tank. The OSD tank contains water quality treatment devices and discharges to the Council's kerb and gutter within Gaggin Street.

Overflow from roof areas in the event of a downpipe blockage is directed via surface flows to the OSD tank for all minor and major storm events.

Soil and water management measures will be provided in accordance with the "Blue Book" (*Managing Urban Stormwater – Soils and Construction*).

10.0 Mitigation Measures

Table 2.0 – Mitigation Measures			
Risk and Hazard	Impact	Mitigation Measure	Significance After Mitigation
Failure of on-site stormwater management system.	Flooding within the site and nuisance to the facility users. Polluted stormwater being discharged to natural waterways including rivers and ocean.	A stormwater asset maintenance manual shall be prepared prior to the issue of Occupation Certificate to maintain the on-site stormwater system regularly.	Not significant

Appendix A

Civil Works Drawings

PARRAMATTA EAST PUBLIC SCHOOL

30-32 BRABYN STREET, PARRAMATTA

GENERAL NOTES

- G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS, SPECIFICATIONS, AS1100 TECHNICAL DRAWING AND SYDNEY STREETS TECHNICAL SPECIFICATION (VERSION 4).
- G2 ANY DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G3 DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- G4 ANY SET OUT DIMENSIONS SHOWN ON THE DRAWING SHALL BE VERIFIED BY THE BUILDER.
- G5 DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN THE WORKS IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- G6 ALL WORK SHALL COMPLY WITH THE BUILDING CODE OF AUSTRALIA AND RELEVANT AUSTRALIAN STANDARD CODES.

EARLY PHYSICAL INVESTIGATIONS

- EP1 AT THE START OF THE WORKS, THE CONTRACTOR SHALL PHYSICALLY LOCATE ALL SERVICES AND POSSIBLE OBSTRUCTIONS TO THE PROPOSED STORMWATER DRAINAGE LINES. THE CONTRACTOR SHALL CONFIRM EXISTING PAVEMENT DEPTHS, AS WELL AS COVER DEPTHS OF EXISTING SERVICES TO ENSURE MINIMUM COVER IS MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE SUPERINTENDENT WITH MARKED UP DRAWINGS INDICATING THE LOCATION AND DEPTH OF THE ABOVE OBSTRUCTIONS.

EXISTING SERVICES NOTES

- ES1 ALL SERVICES SHOWN ON THE DRAWINGS HAVE BEEN COMPILED FROM INFORMATION SUPPLIED. NO GUARANTEE OF THEIR COMPLETENESS OR ACCURACY OF LOCATION CAN BE GIVEN.
- ES2 IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO RESEARCH AND LOCATE EXISTING SERVICES PRIOR TO ANY EXCAVATION WORKS. AT START OF PROJECT, IDENTIFY THE LOCATION, TYPE, SIZE AND LEVEL/COVER OF ALL SERVICES. ADVISE THE SUPERINTENDENT IMMEDIATELY OF ANY POTENTIAL CLASHES WITH PROPOSED WORKS.
- ES3 ANY EXISTING SERVICES INTENDED TO BE ALTERED ARE NOTED ON THE DRAWING.
- ES4 ALL SERVICE MARKERS AND OR COVERS EFFECTED BY LEVEL CHANGES OR BY PAVING ALIGNMENTS IN THE WORKS SHALL BE ADJUSTED OR RENEWED AS REQUIRED BY THE WORKS.
- ES5 THE CONTRACTOR IS TO MAKE CONTACT WITH ALL SERVICE AUTHORITY REPRESENTATIVES AT THE BEGINNING OF THE PROJECT TO ENSURE THAT UTILITY ADJUSTMENTS ARE DONE EARLY AND DO NOT DELAY THE PROJECT.

DRAINAGE NOTES

- D1 ALL WORKS SHALL BE IN ACCORDANCE WITH SYDNEY STREETS TECHNICAL SPECIFICATIONS (VERSION 4).
- D2 FOR PIPE DIAMETERS NOT EXCEEDING 150mm, USE:
- SEWER GRADE UPVC TO AS 1260
- D3 FOR PIPE DIAMETERS EXCEEDING 150mm, USE:
- CLASS 4 REINFORCED CONCRETE PIPE TO AS 4058
- D4 PVC PIPES SHALL BE SOLVENT WELDED. ALL OTHER PIPES SHALL BE RUBBER RING JOINTED UNLESS NOTED OTHERWISE.
- D5 UNLESS SPECIFIED OTHERWISE, BACKFILL TO BE UNDERTAKEN IN ACCORDANCE WITH THE CITY'S TECHNICAL SPECIFICATION.
- D6 LOADS ON PIPES DURING CONSTRUCTION SHALL NOT EXCEED THE REQUIREMENT OF AS 3725, OR THE RECOMMENDATIONS OF THE PIPE MANUFACTURER.
- D7 TRENCH WIDTHS SHALL BE IN ACCORDANCE WITH THE CITY'S TECHNICAL SPECIFICATION.
- D8 AT START OF PROJECT, PRIOR TO INSTALLATION OF ANY STORMWATER, CONFIRM LEVELS OF EXISTING STORMWATER AND OTHER SERVICES. IMMEDIATELY ADVISE THE SUPERINTENDENT OF ANY DISCREPANCIES OR CLASHES.
- D9 PROVIDE STEP IRONS WHERE PIT IS DEEPER THAN 1.0m AT 300mm CENTRES. TO BE INSTALLED IN ACCORDANCE WITH AS 3500.
- D10 MAKE GOOD ROAD PAVEMENT FOLLOWING INSTALLATION OF NEW STORMWATER PITS AND PIPES.
- D11 PITS TO BE FOUNDED ON NATURAL GROUND WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 150 kPa.

ASPHALTIC CONCRETE PAVEMENT NOTES

- AC1 SUB BASECOURSE MATERIAL SHALL BE DGS 40 MATERIAL COMPLYING WITH R.M.S. FORM QA3051.
- AC2 BASECOURSE MATERIAL SHALL BE DGB 20 MATERIAL COMPLYING WITH R.M.S. FORM QA3051.
- AC3 ASPHALTIC CONCRETE SURFACING SHALL BE SUPPLIED AND LAID IN ACCORDANCE WITH R.M.S. SPECIFICATION R116 & AS 2150 ASPHALTIC PAVING - GUIDE TO GOOD PRACTICE.

DRAWING LIST

PEPS-WCE-00-00-DR-C-0001	KEY PLAN, STANDARD NOTES AND LEGEND
PEPS-WCE-00-00-DR-C-0010	CIVIL WORKS PLAN - SHEET 1
PEPS-WCE-00-00-DR-C-0011	CIVIL WORKS PLAN - SHEET 2
PEPS-WCE-00-00-DR-C-0100	CIVIL WORKS DETAILS - SHEET 1
PEPS-WCE-00-00-DR-C-0101	CIVIL WORKS DETAILS - SHEET 2
PEPS-WCE-00-00-DR-C-0201	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1
PEPS-WCE-00-00-DR-C-0202	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2
PEPS-WCE-00-00-DR-C-0203	EROSION AND SEDIMENT CONTROL DETAILS
PEPS-WCE-00-00-DR-C-0301	RAISED PEDESTRIAN CROSSING PLAN
PEPS-WCE-00-00-DR-C-0401	CUT AND FILL PLAN

STORMWATER DRAINAGE DESIGN SUMMARY

OSD TANK CATCHMENT INFORMATION

TOTAL PROPOSED DEVELOPMENT AREA = 3515m²
PROPOSED DEVELOPMENT AREA DIRECTING TO OSD TANK = 3515m²
PROPOSED DEVELOPMENT AREA BYPASSING OSD TANK = 0m²
PERCENTAGE OF PROPOSED DEVELOPMENT AREA BYPASSING OSD TANK = 0%

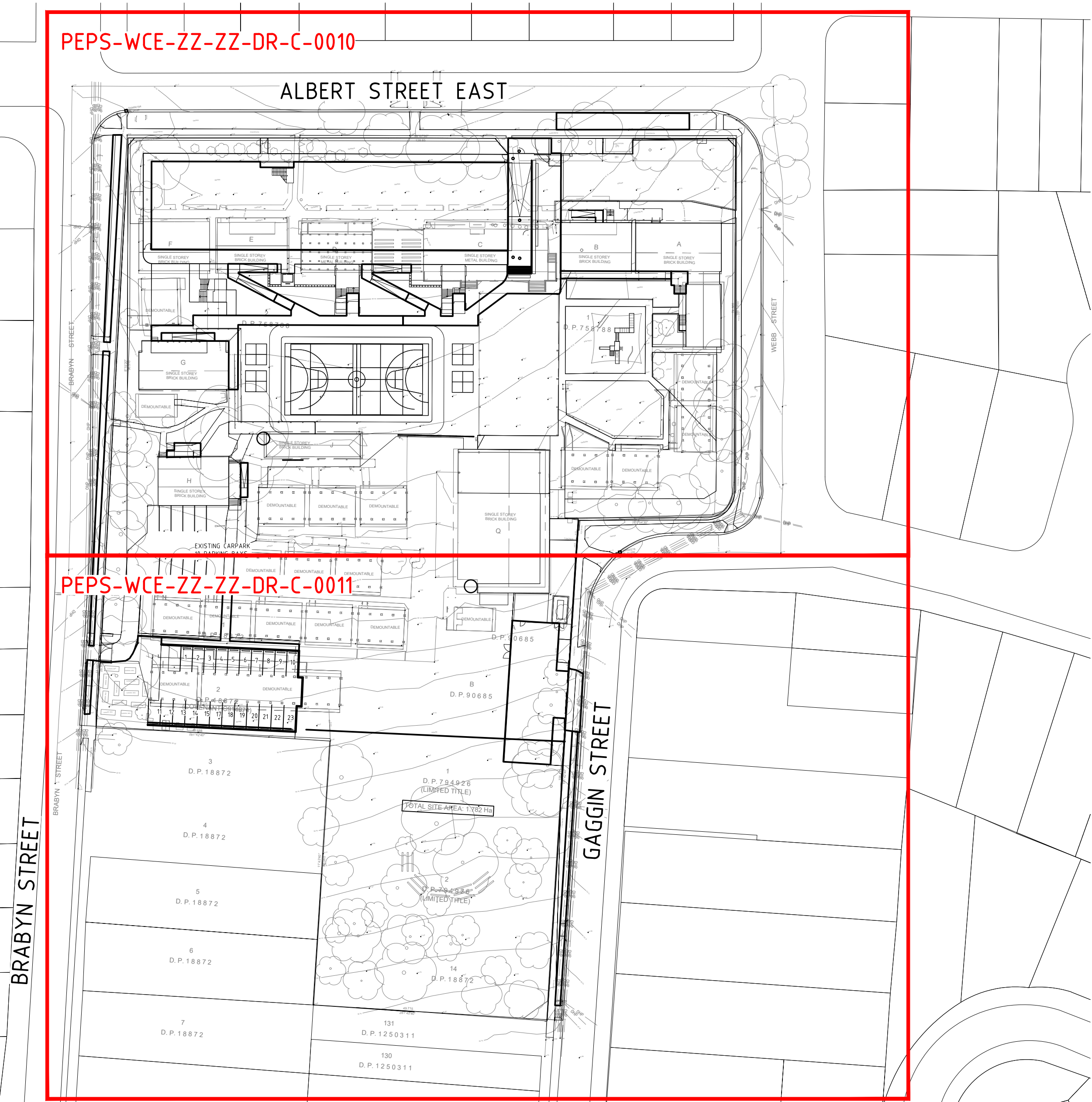
OSD REQUIREMENTS

SITE STORAGE = 470m³ PER HECTARE OF PROPOSED DEVELOPMENT AREA
PERMISSIBLE SITE DISCHARGE = 80l/s PER HECTARE OF PROPOSED DEVELOPMENT AREA
REFER TO THE CITY OF PARRAMATTA COUNCIL DEVELOPMENT ENGINEERING DESIGN GUIDELINES 2018, SECTION 2, TABLE 1.

OSD VOLUME REQUIRED FOR 3515m² OF PROPOSED DEVELOPMENT AREA = 165.2m³
PERMISSIBLE SITE DISCHARGE FOR 3515m² OF PROPOSED DEVELOPMENT AREA = 28.12l/s

OSD TANK SUMMARY

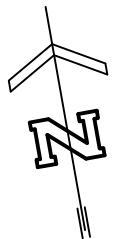
OSD VOLUME PROVIDED = 170m³
ORIFICE DIAMETER = 114mm
CENTRE OF ORIFICE = RL 18.21
MAXIMUM OSD TOP WATER LEVEL = RL 19.30
MAXIMUM SITE DISCHARGE = 28.12l/s



KEY PLAN

No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	23.10.24	RE-ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

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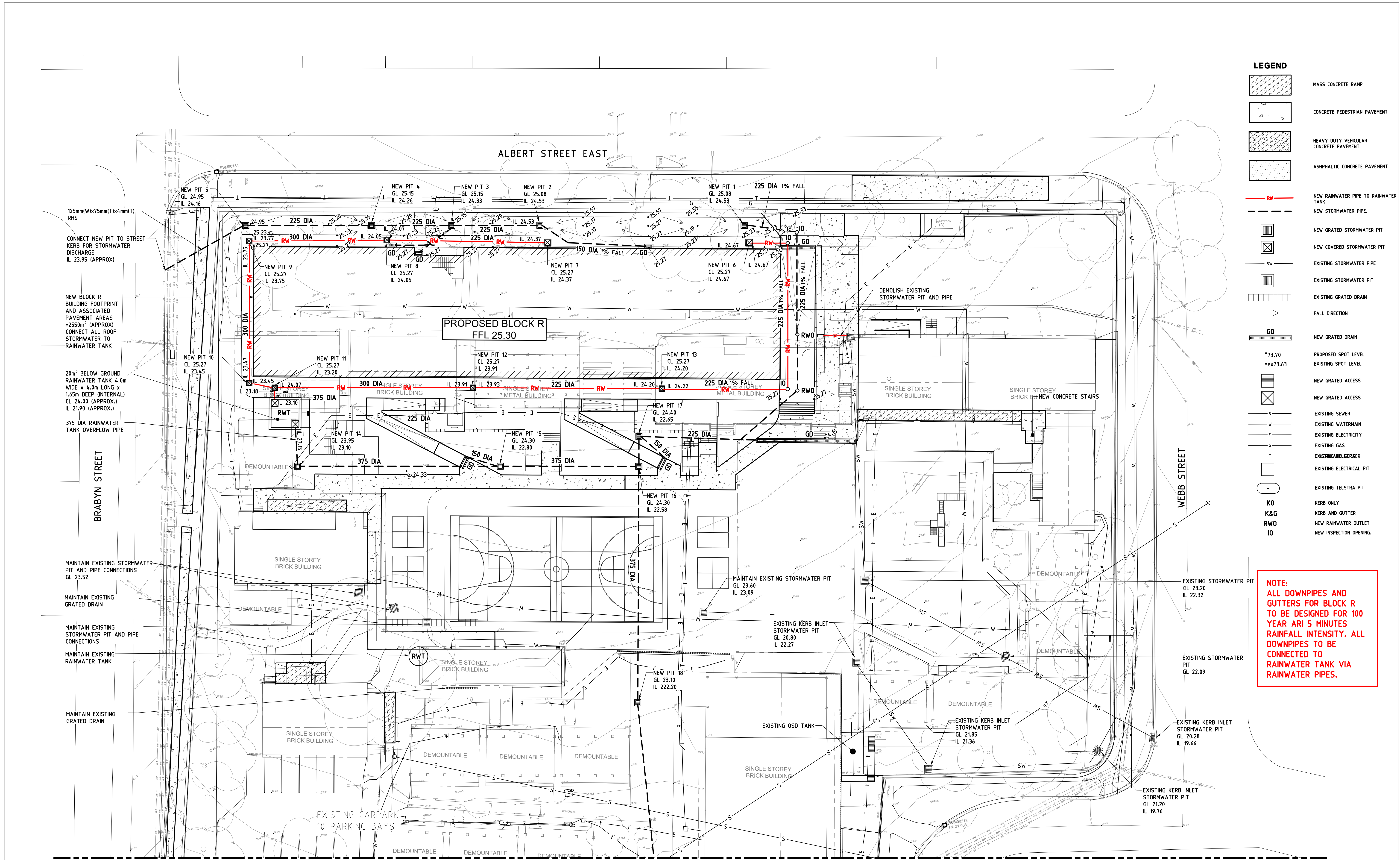
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30-32 BRABYN STREET, PARRAMATTA
NSW 2150

KEY PLAN, STANDARD
NOTES AND LEGEND

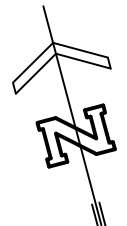
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	02.10.24	02.10.24		02.10.24
Job number	22-107	Drawing number	PEPS-WCE-00-00-DR-C-0001	Amendment
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No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	11.10.24	ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

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FOR CONTINUATION REFER TO DRAWING C-0011



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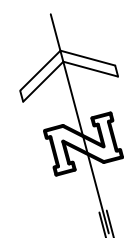
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30-32 BRABYN STREET, PARRAMATTA
NSW 2150

CIVIL WORKS PLAN
SHEET 1

Date	OCTOBER 2024	Approved	Verified	Prepared
Scale @ A1	1:250	JC	JH	CR
		02.10.24	02.10.24	02.10.24
Job number	22-107	Drawing number	PEPS-WCE-00-00-DR-C-0010	Amendment
				C

No.	Date	Description	Ver.	Appr
A	02.10.24	ISSUED FOR DA	JH	JC
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CIVIL WORKS PLAN
SHEET 2

Date	OCTOBER 2024
Scale @ A1	1:250

Job number	22-107
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Approved JC 02.10.24	Verified JH 02.10.24	Prepared CR 02.10.24
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Drawing number	Amendment
00-00-DR-C-0011	C

OSD TANK TO BE
STRUCTURALLY
DESIGNED DURING THE
DETAILED DESIGN STAGE

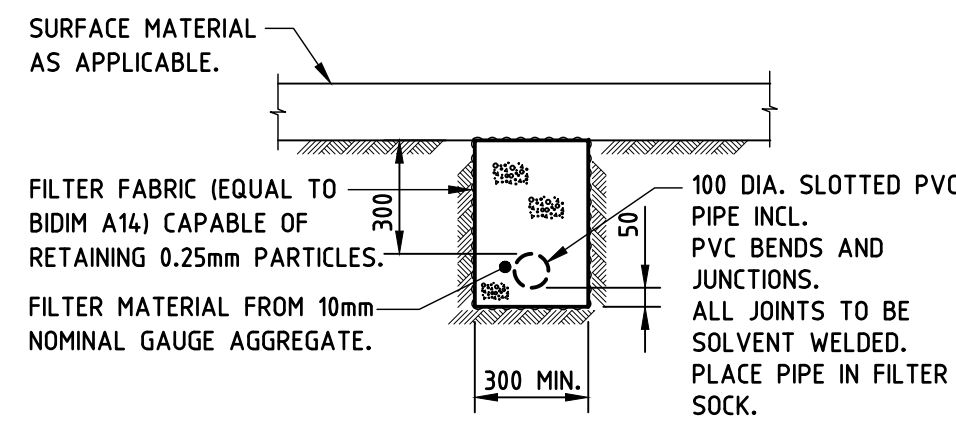


NOT FOR
CONSTRUCTION

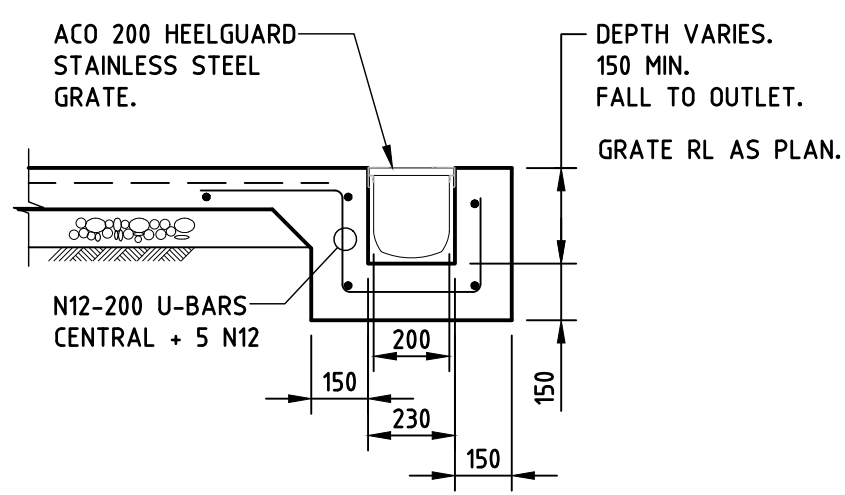
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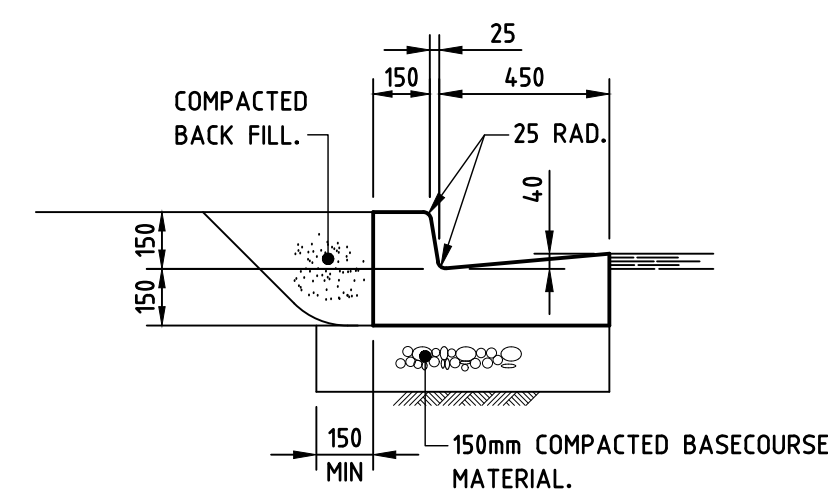
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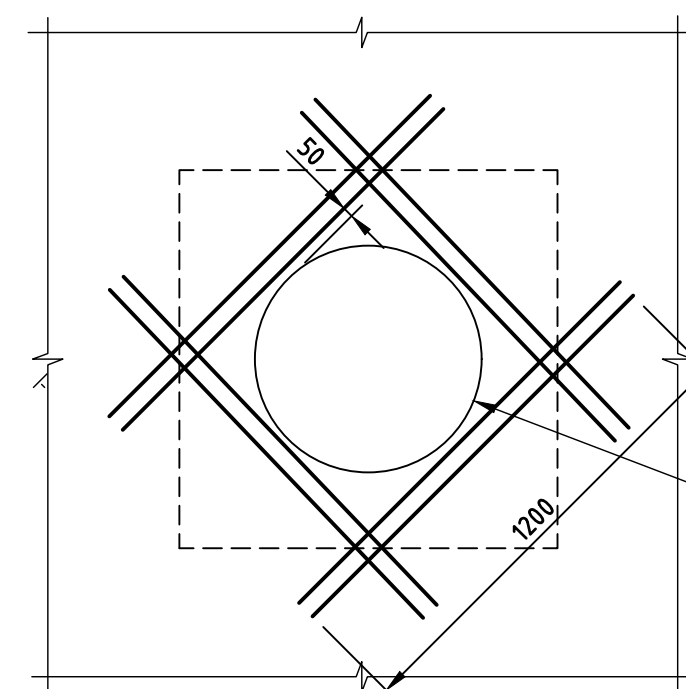
SUBSOIL DRAIN



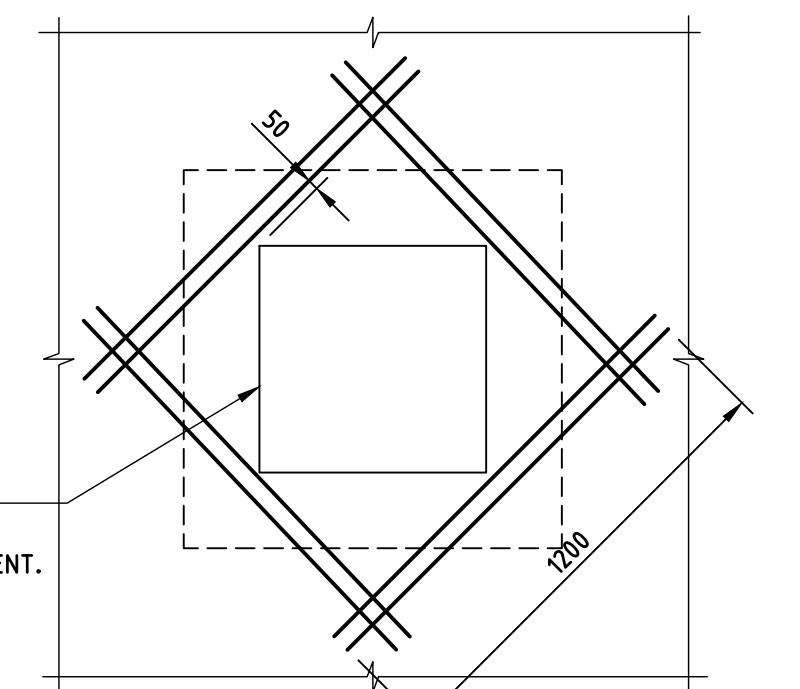
GRADED DRAIN DETAIL



KERB & GUTTER (K&G)

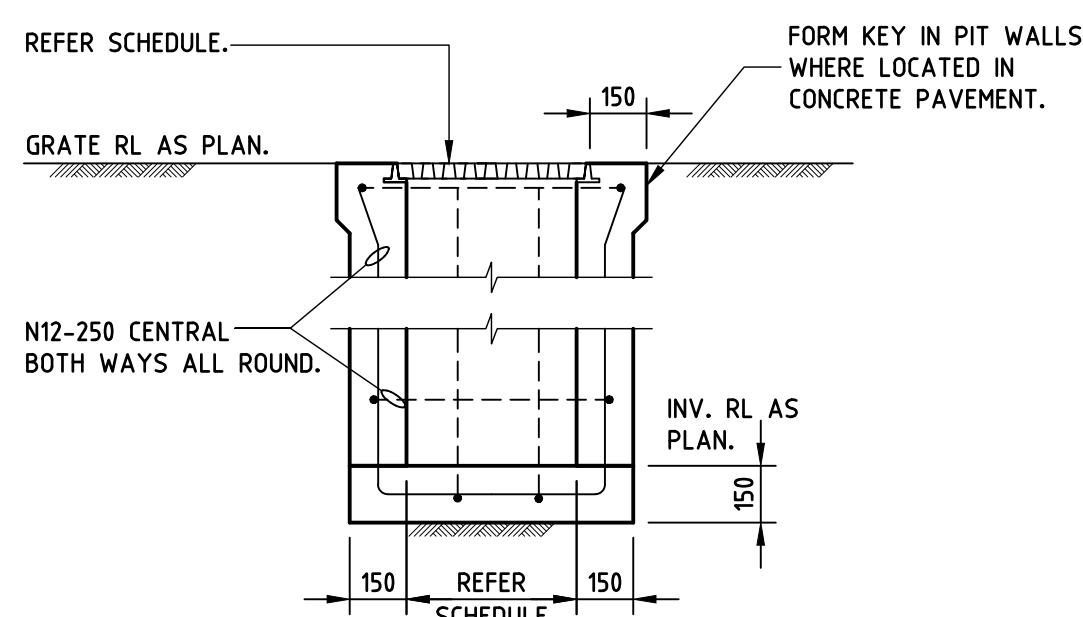


BASE SLAB - REINFORCING DETAIL
DETAIL FOR CIRCULAR PENETRATIONS

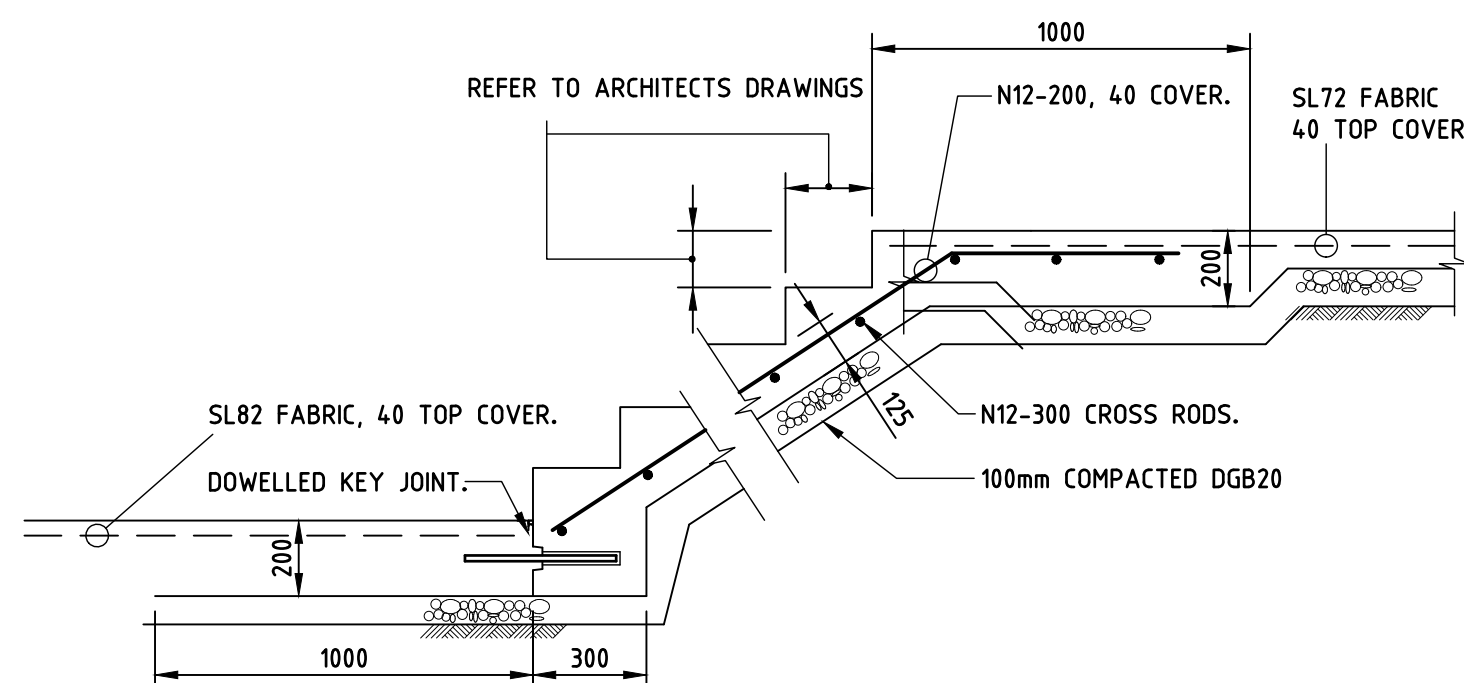


BASE SLAB - REINFORCING DETAIL
DETAIL FOR SQUARE PENETRATIONS

TYPICAL CONCRETE PAVEMENT PENETRATION DETAILS



PIT TYPICAL DETAIL
NOTE: ALL COVERS TO BE INFILL
TYPE TO MATCH SURROUNDING
PAVEMENT IN TYPE AND COLOUR.
ALL GRATES IN PEDESTRIAN AREAS
TO BE HEELGAUD STYLE,
COMPLIANT WITH AS1428



TYPICAL STAIR DETAIL

No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	23.10.24	RE-ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

NOT FOR
CONSTRUCTION

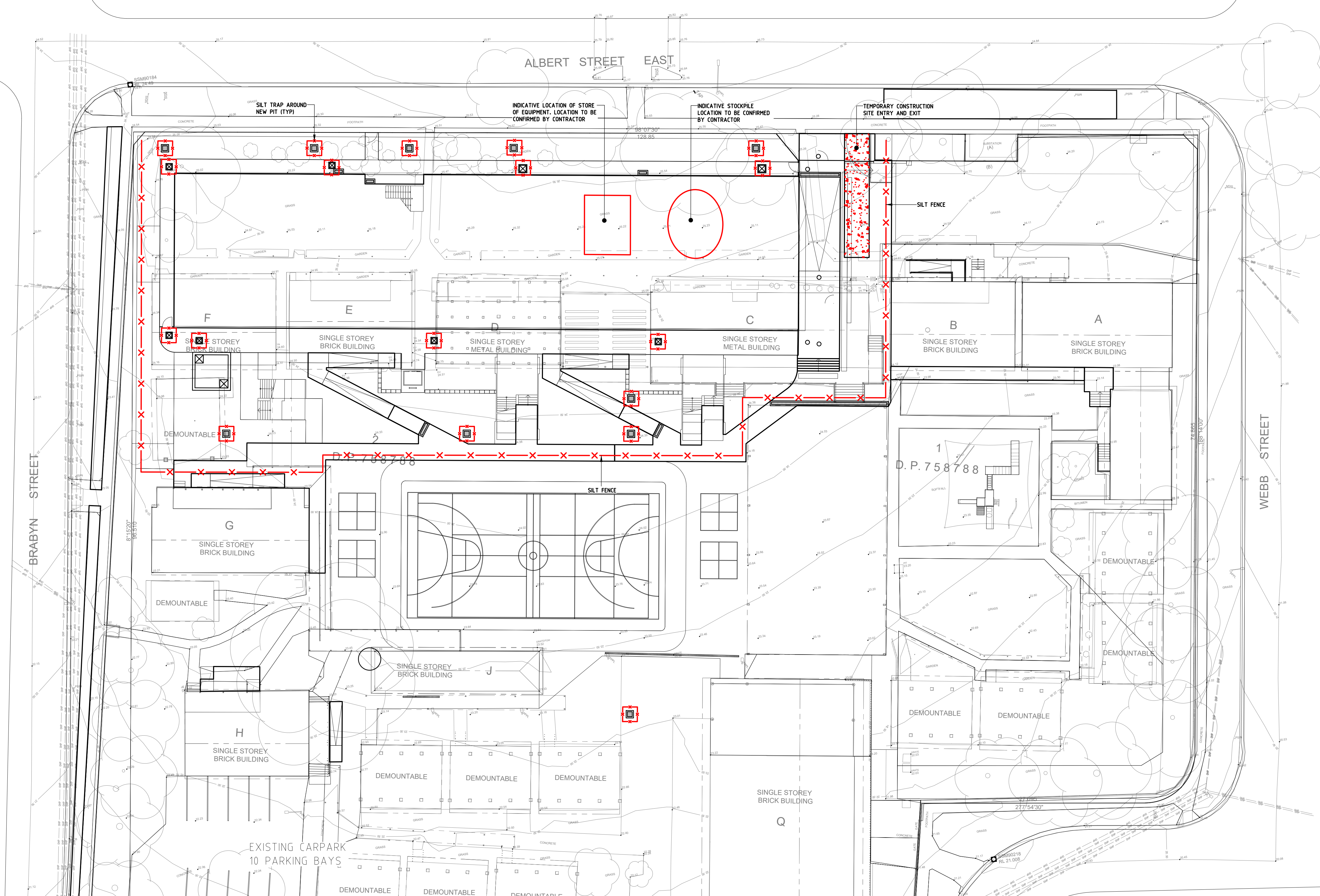
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SYDNEY NSW 2000

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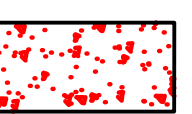
PARRAMATTA EAST PUBLIC SCHOOL
30-32 BRABYN STREET, PARRAMATTA
NSW 2150

CIVIL WORKS DETAILS
SHEET 2

Date	OCTOBER 2024	Approved	Verified	Prepared
Scale @ A1	1:20	JC	JH	CR
Job number	22-107	Drawing number	PEPS-WCE-00-00-DR-C-0101	Amendment
				C



LEGEND

 TEMPORARY CONSTRUCTION SITE ENTRY/EXIT. REFER DETAIL.

 SILT FENCE. REFER DETAIL.

 SILT TRAP

PROVIDE SILT FENCE TO LOW SIDE OF AREA OF WORKS (TYP). LOCATION TO BE ADAPTED ONSITE TO SUIT CONSTRUCTION STAGING AS REQUIRED. REFER TO DETAIL.

PROVIDE SEDIMENT TRAP AROUND ALL EXISTING STORMWATER PITS AND NEW STORMWATER PITS FOR ENTIRE DURATION OF WORKS.

No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	11.10.24	ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

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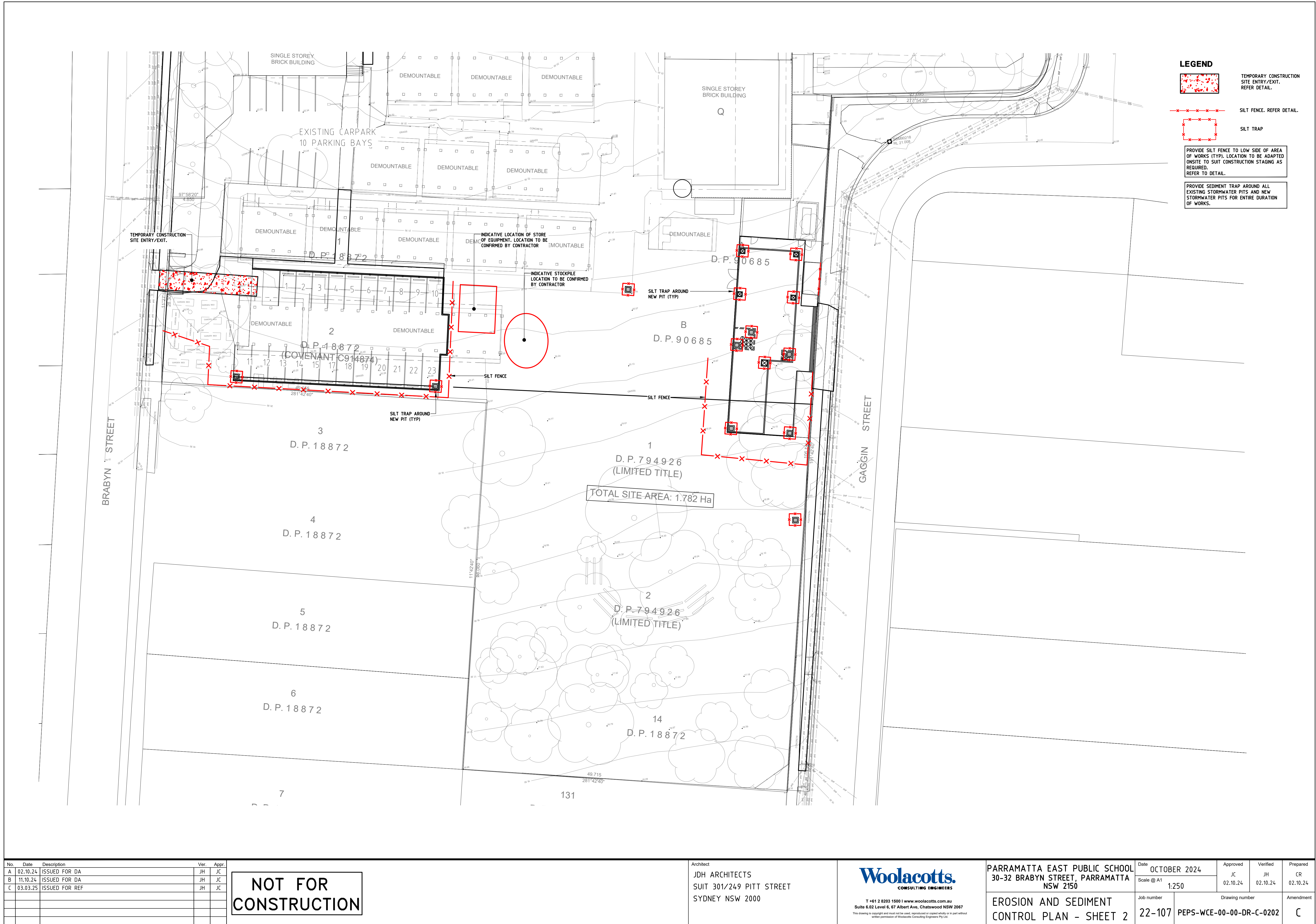
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EROSION AND SEDIMENT
CONTROL PLAN - SHEET 1

Date	OCTOBER 2024	Approved	Verified	Prepared
Scale @ A1	1:250	JC	JH	CR
Job number	22-107	Drawing number	PEPS-WCE-00-00-DR-C-0201	Amendment
				C



No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	11.10.24	ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

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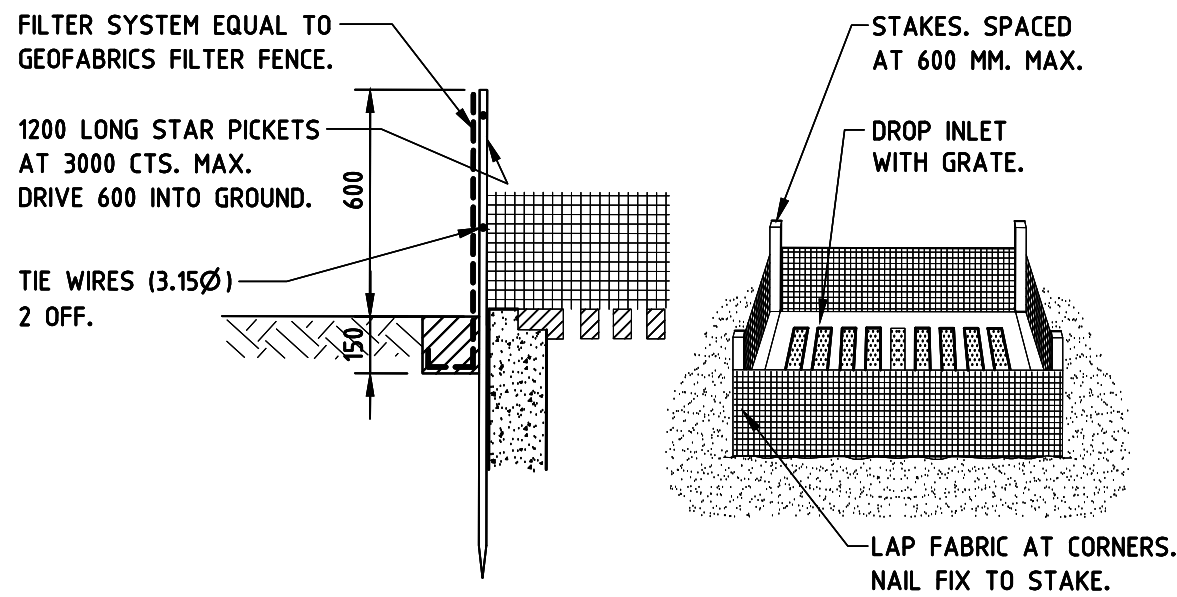
PARRAMATTA EAST PUBLIC SCHOOL
30-32 BRABYN STREET, PARRAMATTA
NSW 2150

Date
OCTOBER 2024
Scale @ A1
1:250

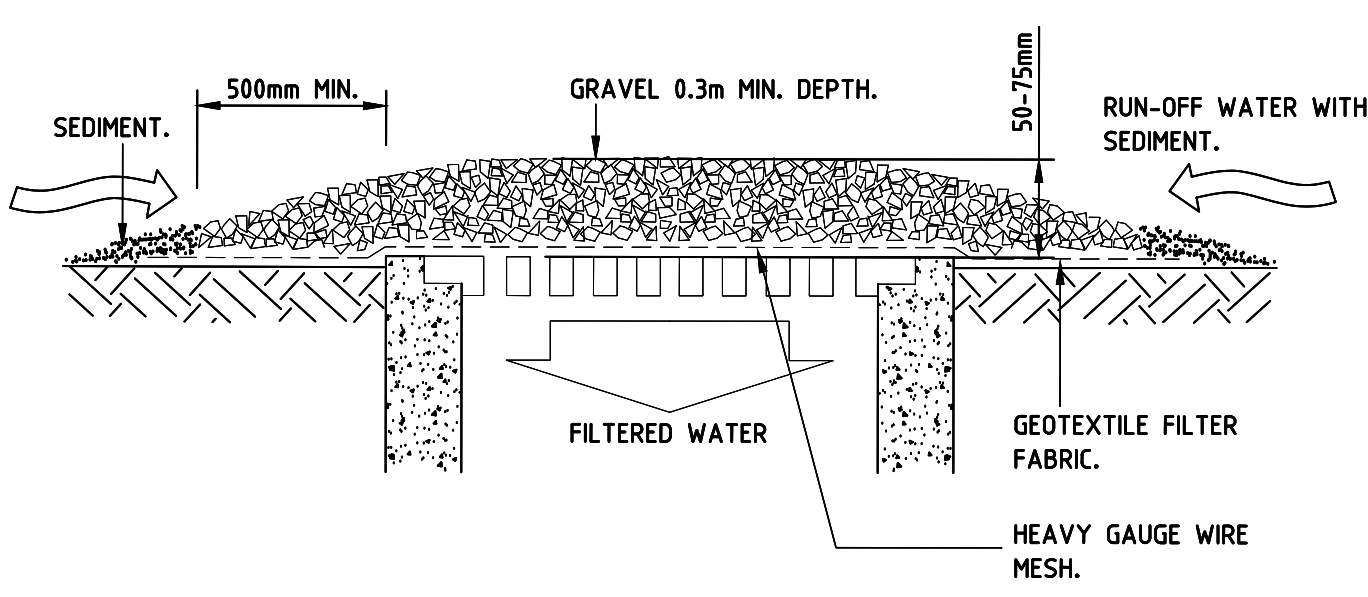
Approved	Verified	Prepared
JC	JH	CR
02.10.24	02.10.24	02.10.24

EROSION AND SEDIMENT
CONTROL PLAN - SHEET 2

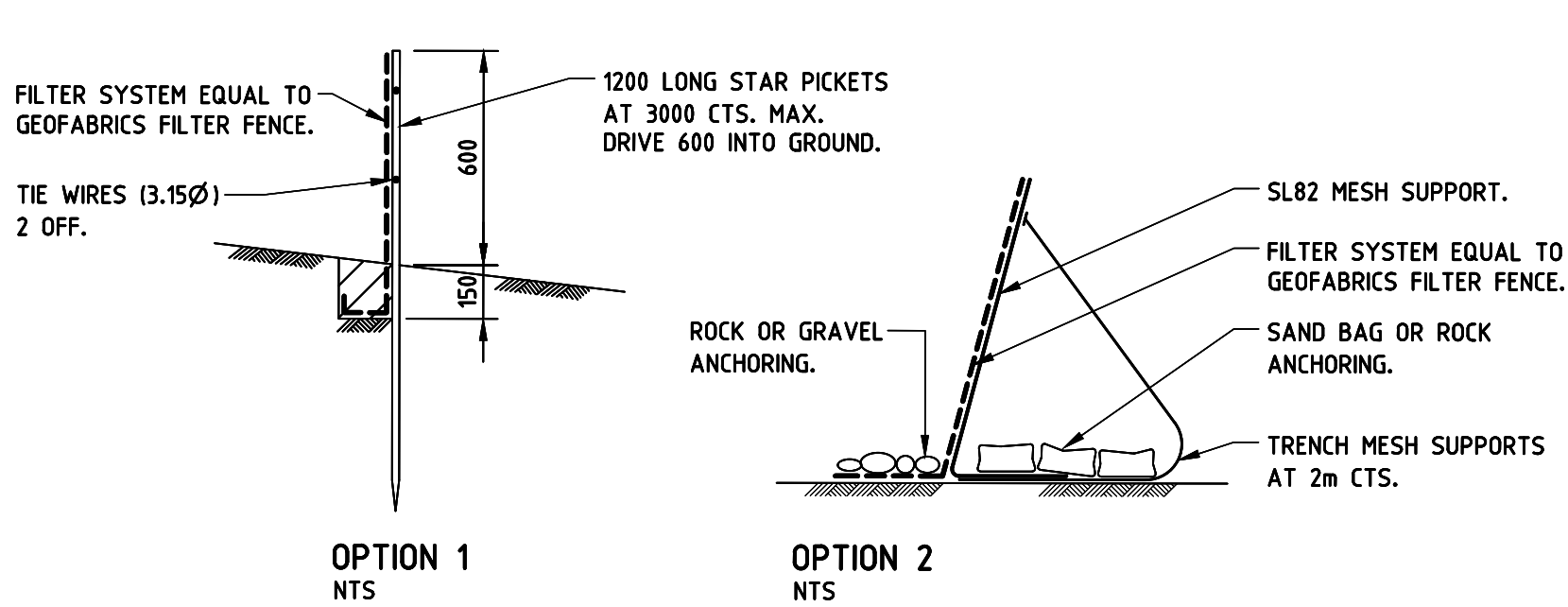
Job number	Drawing number	Amendment
22-107	PEPS-WCE-00-00-DR-C-0202	C



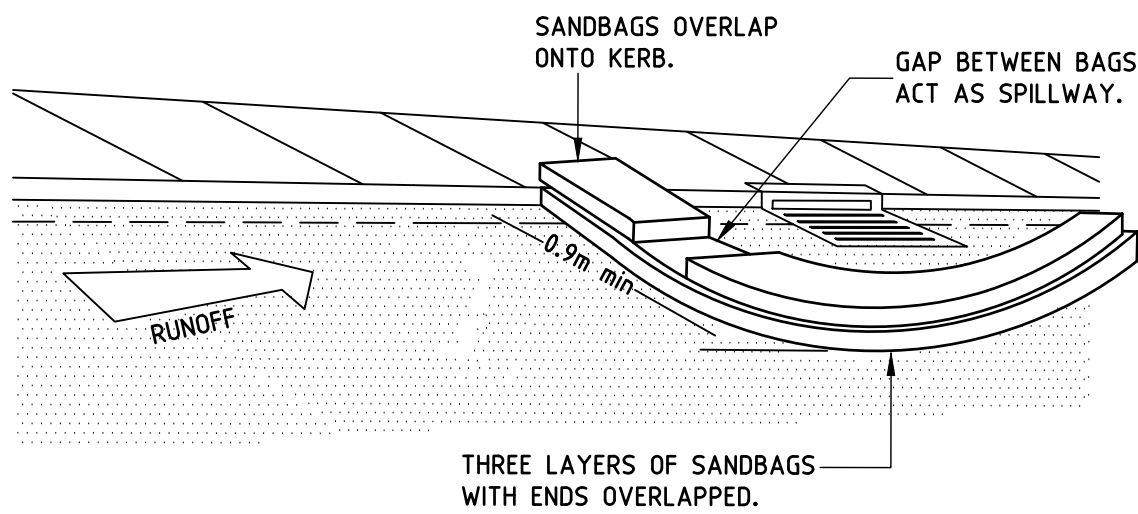
GEOFABRIC FILTER FABRIC DROP INLET SEDIMENT TRAP.
TO BE PROVIDED AT GRATED PITS WITHIN PVIOUS AREAS.



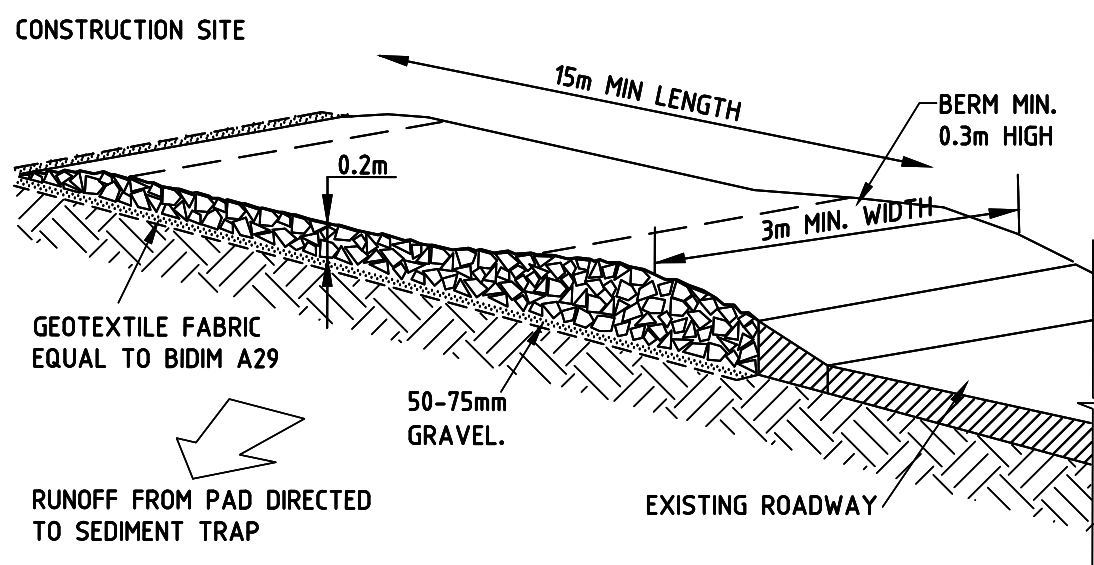
WIRE MESH AND GRAVEL DROP INLET SEDIMENT TRAP.
TO BE PROVIDED AT GRATED PITS WITHIN IMPERVIOUS AREAS.



SILT FENCE DETAILS
TO BE PLACED AROUND LOW SIDE OF PROPERTY BOUNDARY AND AROUND STORMWATER INLET STRUCTURES TO PREVENT SOIL WASHING OFF SITE.



TYPICAL SANDBAG KERB INLET SEDIMENT TRAP
TO BE LOCATED AROUND EXISTING KERB INLET PIT



TEMPORARY CONSTRUCTION ENTRY/EXIT
TO BE LOCATED AT VEHICLE EXIT FROM SITE

No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	03.03.25	ISSUED FOR REF	JH	JC

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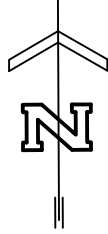
PARRAMATTA EAST PUBLIC SCHOOL
30-32 BRABYN STREET, PARRAMATTA
NSW 2150
EROSION AND SEDIMENT
CONTROL DETAILS

Date	OCTOBER 2024	Approved	Verified	Prepared
Scale @ A1	1:20	JC	JH	CR
02.10.24	02.10.24	02.10.24	02.10.24	02.10.24
Job number	22-107	Drawing number	PEPS-WCE-00-00-DR-C-0203	Amendment
				B



No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	23.10.24	RE-ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

NOT FOR
CONSTRUCTION

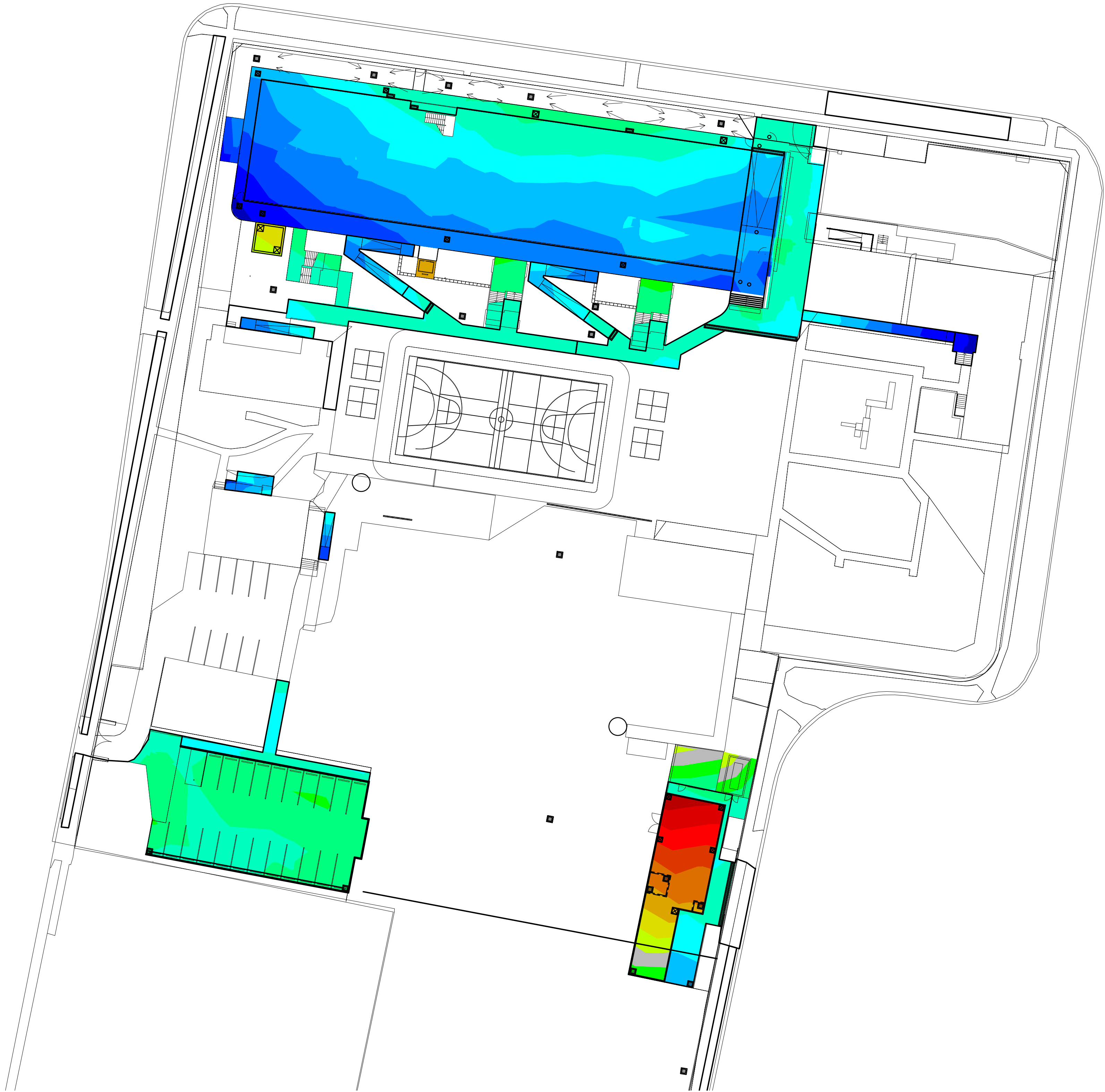


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PARRAMATTA EAST PUBLIC SCHOOL 30-32 BRABYN STREET, PARRAMATTA NSW 2150	Date OCTOBER 2024	Approved JC 02.10.24	Verified JH 02.10.24	Prepared CR 02.10.24
		Scale @ A1 1:250		
RAISED PEDESTRIAN CROSSING PLAN	Job number 22-107	Drawing number PEPS-WCE00-00-DR-C-0301	Amendment C	



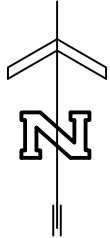
Levels Table			
No.	Min. Level	Max. Level	Colour
1	-3.000	-2.800	Dark Red
2	-2.800	-2.600	Red
3	-2.600	-2.400	Red-Orange
4	-2.400	-2.200	Orange
5	-2.200	-2.000	Orange-Yellow
6	-2.000	-1.800	Yellow-Orange
7	-1.800	-1.600	Yellow
8	-1.600	-1.400	Light Yellow
9	-1.400	-1.200	Yellow-Green
10	-1.200	-1.000	Green-Yellow
11	-1.000	-0.800	Green
12	-0.800	-0.600	Light Green
13	-0.600	-0.400	Green
14	-0.400	-0.200	Light Green
15	-0.200	0.000	Light Blue
16	0.000	0.200	Blue
17	0.200	0.400	Dark Blue
18	0.400	0.600	Very Dark Blue
19	0.600	0.800	Dark Blue
20	0.800	1.000	Very Dark Blue

CUT AND FILL SUMMARY

CUT FACTOR	FILL FACTOR	CUT VOLUME	FILL VOLUME	NET VOLUME
1.1	1.0	1164.37m ³	348.60m ³	815.77m ³ (CUT)

No.	Date	Description	Ver.	Appr.
A	02.10.24	ISSUED FOR DA	JH	JC
B	18.10.24	ISSUED FOR DA	JH	JC
C	03.03.25	ISSUED FOR REF	JH	JC

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CONSTRUCTION



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30-32 BRABYN STREET, PARRAMATTA
NSW 2150

CUT AND FILL PLAN

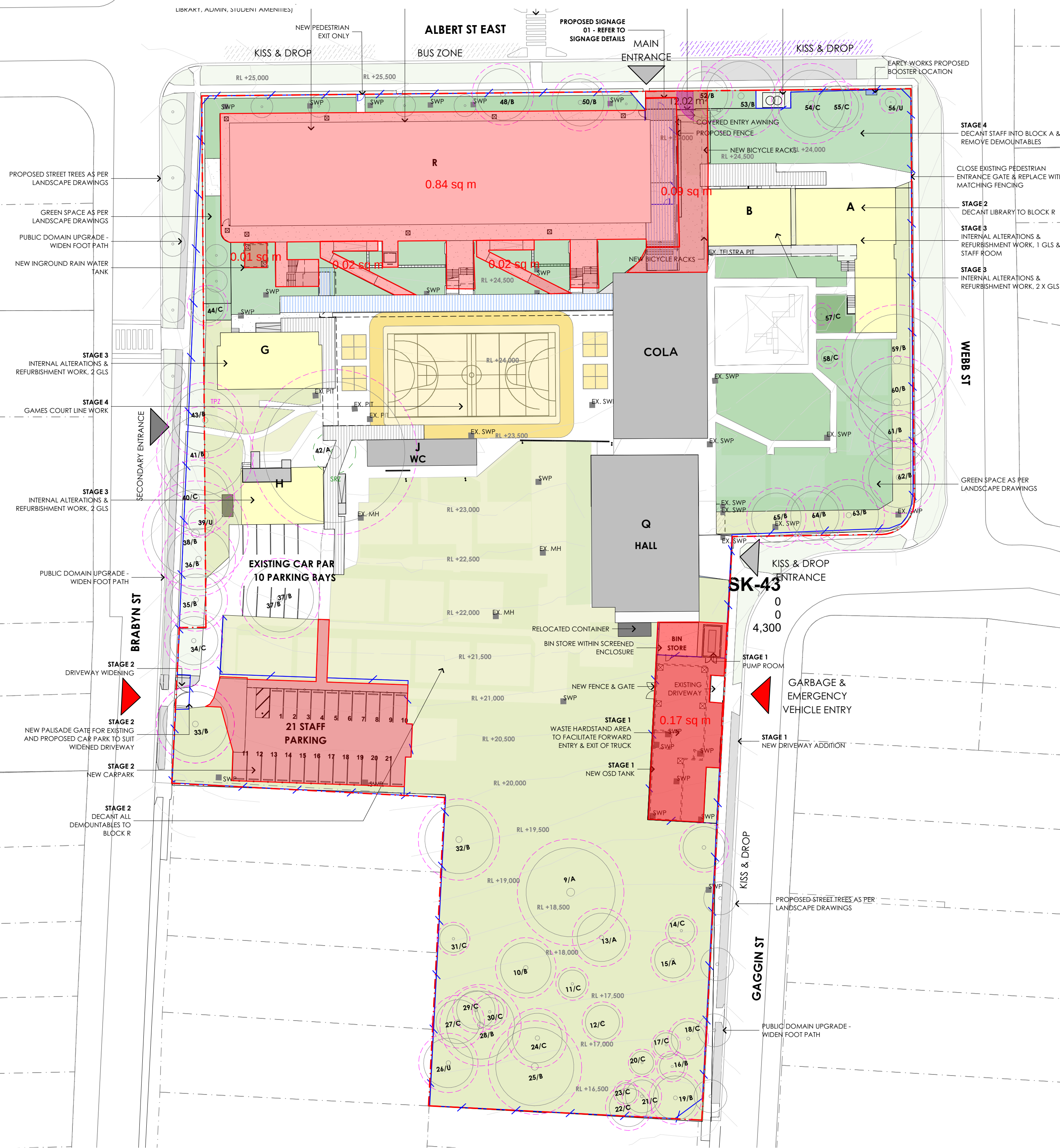
Date	OCTOBER 2024	Approved	Verified	Prepared
Scale @ A1	1:400	JC	JH	CR
02.10.24	02.10.24	02.10.24	02.10.24	02.10.24
Job number	22-107	Drawing number	PEPS-WCE-00-00-DR-C-0401	Amendment
				C

Appendix B

OSD Catchment Plan

LEGEND:

AREA DRAINING TO OSD TANK = 3,515m²



WOOLACOTTS CONSULTING ENGINEERS
PARRAMATTA EAST PUBLIC SCHOOL
22-107_OSD CATCHMENT PLAN SKETCH_REVISION [B]
DATE : 27.02.2025

