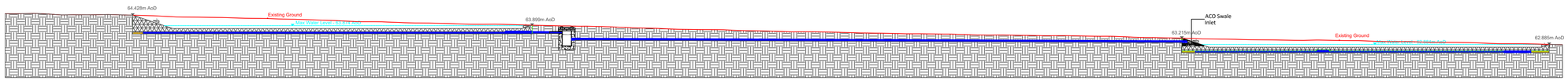
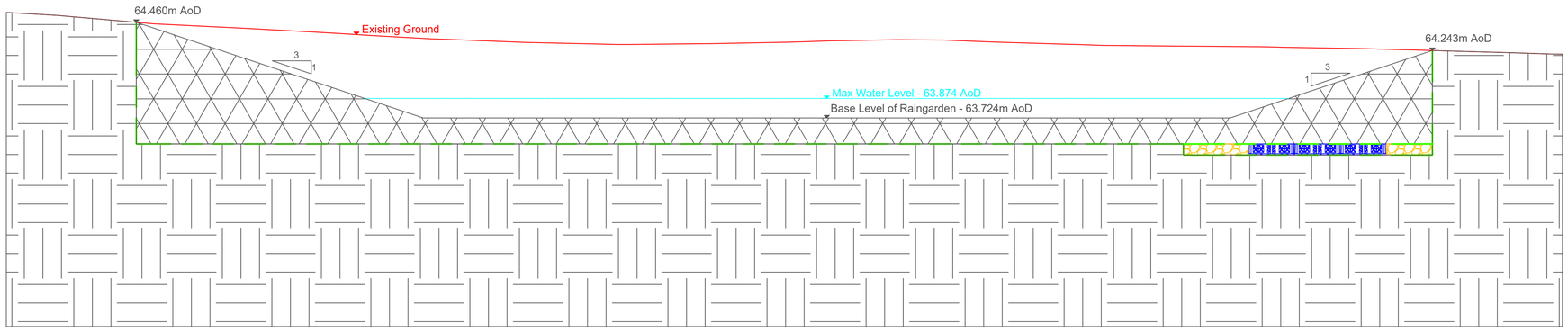


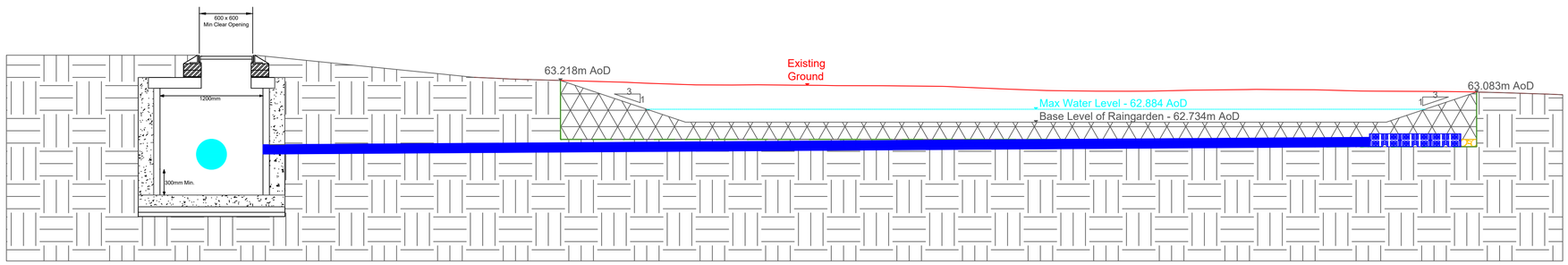
A | Raingarden Long Section 1

SCALE - 1:120



B | Raingarden A Cross Section

SCALE - 1:20



C | Raingarden B Cross Section

SCALE - 1:20

LINKED MODEL SCHEDULE

1. Side slopes of raingarden not to exceed 1in3 to final depth.
2. Permavoid to be installed in trench lower than growing medium.
3. Gravel surround to be installed up to 500mm around the permavoid at the same depth as the permavoid.
4. This drawing is to be read in conjunction with all relevant architects, engineers and specialist drawings.
5. Rainwater Management System design and construction to Engineers Specification.
6. All work is to be carried out in accordance with the latest edition of Building Regulations, BSI Codes of Practice and Local Authority requirements.
7. Stormwater attenuation/retention system shall be Permavoid pre-formed modular geocellular system with minimum 95% volumetric void ratio and minimum 52% effective perforated surface area. Units shall be manufactured with integral interlocking ties (Permaties) to maintain rigidity and minimise deflection.
8. Designs shall be based on sound structural calculations supported with clear laboratory test results and shall consider both collapse and unit deflection. Consideration shall also be given to the effect of unit deflection on the overlaying surface materials. Permanent dead loads (including lateral loads) from overlying surfacing or structural elements shall be based upon the construction drawings. Live loadings from vehicles and activities at the surface including maintenance shall be considered. Modular geo-cellular systems must be designed as structural components, using structural design theory in accordance with CIRIA Report C680.
9. Geocellular units to be encapsulated with geotextile and/or impermeable membrane in accordance with the Engineers specification. Units are to be installed in accordance with the manufacturer's recommendations.
10. The geocellular system shall be encapsulated with a geotextile suitable to provide separation and filtration between the geocellular layer and the overlying landscape finishes and shall also be compatible with and protect the underlying waterproof membrane system. The geotextile shall be laid with 300mm overlaps, and be applied to external surfaces of the Permavoid units as detailed on the Engineering drawing(s). Geotextile to be installed in accordance with the manufacturer's recommendations.
11. Permavoid units shall generally be laid with zero falls unless notes otherwise and laid on a prepared even formation that shall be free from undulations, sharp steps or protrusions. The formation shall achieve a maximum deflection of 5mm in 3.0m in any direction. The formation shall be inspected by the Engineer and installing contractor to ensue acceptability for the construction of Permavoid.
12. The installer shall ensure that all expected temporary construction loads have been considered as part of the structural design. Any load additional/unplanned to that considered as part of the structural design shall be immediately brought to the attention of the Engineer. All necessary precautions shall be taken to prevent the overloading of the geocellular structure.
13. All dimensions are in millimetres unless otherwise stated.
14. Do not scale from this drawing. If in doubt ask.
15. Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to to works proceeding on site.
16. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings are PRELIMINARY and NOT OR CONSTRUCTION.
17. At all times the works are to be executed in accordance with the requirements of the Health and Safety at Work Act 1974 and current CDM Regulations.
18. Copyright in this document belongs to The Environmental Protection Group Ltd & all rights in it are reserved by the owner.
19. No part of this drawing may be copied, transferred, or made available to users other than the original recipient, including electronically, without prior permission from The Environmental Protection Group Ltd.

STATUS	REV	DATE	DESCRIPTION	DSG | DRW | CHK | APP
S3	P02	22.09.25	Updates to outfall and Design	TR | TR | GH | PW
S3	P01	27.03.24	First issue	TR | TR | GH | PW

ALL REVISIONS

MAIN CONTRACTOR

CLIENT LOGO

KEY PLAN

ORIGINATOR

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PROJECT NAME: King George, Wokingham

DRAWING TITLE: King George Playing Field
Raingarden and French Drain Layout

SCALE @ A1	EPG REF	MODEL FILE NAME - REVISION
As Spec	J000055	-

FIRST ISSUE DATE	PROJECT STAGE	STATUS CODE
27/03/24	S3 - Suitale for Review & Comment	

PROJECT	ORIGINATOR	VOLUME	LEVEL	TYPE	ROLE	NUMBER	REV
0055	EPG	XX	GF	DR	Y	000100	P02