R148

R158

Former St. Patrick's Church
- Protected Structure

Cemetery

Burial Ground

THIS AREA ENCLOSED WI
AND FORMER PROTECTE
DOES NOT FORM PART O

Boycetown
Court

Proposed swale to intercept and treat 1.4 has road and paved areas.21m3 treatment required. 24.0m3 storage volume provided.

Proposed swale to intercept and treat 0.5 has roof and paved areas. 7.5m3 treatment required. 11.0m3 treatment storage volume provided.

Proposed permeable pavement to intercept and treat 0.1 has roof and paved areas. 15.0m3 required. 16.0m3 storage volume provided

Proposed permeable pavement to intercept and treat 0.2 has roof road and paved areas. 30m3 treatment storage required. 30.0m3 provided

Proposed swale to intercept and treat 2.0 has road and paved areas.30m3 treatment required. 31.0m3 storage volume provided.

Proposed permeable pavement to intercept and treat 0.17 has roof and paved areas. 25m3 treatment storage required. 28.0m3 provided

Proposed permeable pavement to intercept and treat 0.06 has roof and paved areas. 9.0m3 required. 13.0m3 storage volume provided

Bioretention area equivalent to 4.8m³ interception storage capacity for 320m² of road @ 15mm. Tree pit boxes dimensions 35m² x 0.5m deep with 30% void. Tree pit boxes to be installed with an impermeable liner and under drain

Proposed permeable pavement to intercept and treat 0.25 has roof and paved areas. 38m3 treatment storage required. 50.0m3 provided

Proposed permeable pavement to intercept and treat 0.25 has roof and paved areas. 38m3 treatment storage required. 48.0m3 provided

Proposed permeable pavement to intercept and treat 0.06 has roof and paved areas. 15.0m3 required. 22.0m3 storage volume provided

Proposed permeable pavement and Bioretention areas to intercept and treat 0.61 has spine road and paved areas. 91.0m3 required. 82.0m3 permeable pavement and 9.0m3 of bioretention storage volume provided

Proposed permeable to intercept and treat 0.63 has roof, road and paved areas. 96.0m3 required. 86.0m3 permeable pavement and 12.0m3 bioretention storage provided

Proposed permeable to intercept and treat 0.25 has roof. road and paved areas. 38.0m3 required. 52.0m3 permeable pavement storage provided

Proposed permeable to intercept and treat 0.63 has spine roof. road and paved areas. 96.0m3 required. 144.0m3 permeable pavement storage provided

Proposed permeable to intercept and treat 0.18 has roof. road and paved areas. 27.0m3 required. 35.0m3 permeable pavement storage provided

Proposed permeable to intercept and treat 0.56 has spine roof. road and paved areas. 84.0m3 required. 91.0m3 permeable pavement storage provided

Proposed permeable to intercept and treat 0.58 has roof. road and paved areas. 87.0m3 required. 93.0m3 permeable pavement storage provided

Proposed permeable to intercept and treat 0.29 has roof, road and paved areas. 44.0m3 required. 27.0m3 permeable pavement and 19.0m3 bioretention storage provided

Bioretention area equivalent to 26m³ or filter strip. Treatment storage capacity for 1725m² of road @ 15mm. Bioretention dimensions 118.0m² x 0.75m deep. Bioretention with an impermeable liner and under drain

Proposed permeable pavement to intercept and treat 0.25 has roof and paved areas. 38m3 treatment storage required. 51.0m3 provided

BLOCK A
152 TO 183 UNIT

BLOCK B
184 TO 206 UNIT

BLOCK C
207 TO 230 UNIT

BLOCK D
231 TO 240 UNIT

BLOCK E
241 TO 248 UNIT

Bio Retention Areas

Permeable Pavements

Bins

Bikes

ESB

UNDER CONSTRUCTION
ADJOINING APPROVED SHD APPLICATION (Ref.:ABP-306826-20)

NOTES:

SUDS PROPOSALS TO BE IMPLEMENTED IN ACCORDANCE WITH CIRIA 697.

PROPOSED SUDS FEATURES:

SWALES

SWALES TO BE 500MM WIDE AT BASE,
250MM DEEP WITH 1:3 SIDE SLOPES

BIORETENTION AREAS

BIORETENTION AREAS TO BE 750MM DEPTH WITH 0.3 VOIDS RATIO.
BIORETENTION TO BE INSTALLED WITH IMPERMEABLE LINER.

PERMEABLE PAVING

PERMEABLE PAVEMENTS TO BE 400MM DEPTH WITH 0.3 VOIDS RATIO.
PERMEABLE PAVEMENT TO BE TYPE C WITH IMPERMEABLE LINER.

TOTAL IMPERMEABLE AREAS FROM ALL
ROOF, ROADS AND PAVED SURFACES = 53,560m2

INTERCEPTION VOLUME BASED ON 5MM DEPTH RAINFALL = 267.8m3

TREATMENT VOLUME BASED ON 15MM DEPTH RAINFALL = 803m3

TOTAL INTERCEPTION / TREATMENT VOLUME PROVIDED = 1071.2m3

NOTE: ALL SUDS FEATURES SERVE THEIR RESPECTIVE
CATCHMENT / IMPERMEABLE AREAS.

S037

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NOTES
1. For setting out refer to Architect's drawings.
2. This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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Rev. No.	Date	REVISION NOTE	Drn. By	Chkd. By
P1	02.09.2022	ISSUED FOR PLANNING	JS	OS

Architect	Paul Byrne Architects
Project	Kilcock West SHD 2 Boycetown, Kilcock, Co. Kildare.
Title	Proposed Sustainable Drainage System Layout
Dwg. No.	S037-CSC-XX-XX-DR-C-0108

Date	Drn by	Chkd by	Aprvd by	Scale	Revision
FEB 2021	AB	OS	OS	1:500 @ A0	P1

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Health & Safety OHSAS 18001:2007