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THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, SPECIFICATIONS AND THE PRELIMINARY HEALTH & SAFETY PLAN.

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE. DO NOT SCALE DIMENSIONS.

THE CONTRACTOR SHALL CHECK ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED TO THIS OFFICE IN WRITING.

NOTES

BY	DRAWING No. & REFERENCE	DATE
ARCH	SHB5-CSD-DR-MOR-M-P3-1002	14.05.2024
IS ARCH	SHB5-CSD-DR-MAL-L-P1-0100	06.02.2024

DRAINAGE LEGEND

- PROPOSED SURFACE DRAINAGE LINE
- PROPOSED SURFACE MANHOLE
- PROPOSED SURFACE ARMSTRONG JUNCTION
- PROPOSED SURFACE ROAD GULLY
- - - EXISTING SURFACE DRAINAGE LINE
- EXISTING SURFACE MANHOLE
- EXISTING SURFACE ARMSTRONG JUNCTION
- EXISTING SURFACE ROAD GULLY
- PROPOSED TREE PIT
- ▨ PERMEABLE PAVING
- ▨ SWALE AREA
- GRATED MANHOLE
- RAIN GARDEN AREA
- PERMEABLE PAVING UNDERDRAIN 150#
- SWALE/ RAIN GARDEN UNDERDRAIN 150#
- TREE PIT UNDERDRAIN 150#
- DROPPED KERB AT 5m C/C
- INSPECTION CHAMBER
- STANDARD ROOF
- GREEN ROOF OVER BLUE ROOF

ATTENUATION VOLUME INFORMATION URBAN CENTRE AREA

LEVELS CHECK
 LOWEST ROAD LEVEL = 58.970m
 1:100YR WATER LEVEL i.e. 300mm FREEBOARD = 58.670m
 LOWEST FFL = 59.170m
 1:100YR WATER LEVEL i.e. 500mm FREEBOARD = 59.170m
 LET THE 1:100YR WATER LEVEL = 58.670m

DETENTION BASIN
 SIDE SLOPE 1:3
 TOP OF EMBANKMENT = 59.65m
 (LEVELS VARY AROUND THE COURTYARD – FOR CALCULATION PURPOSES USING THE MANHOLE COVER LEVEL GOING INTO THE DETENTION BASIN)
 1:100YR WATER LEVEL = 58.670m i.e. 980mm FREEBOARD FROM 1:100YR WATER LEVEL
 500mm DEPTH FOR WATER STORAGE
 BASIN BOTTOM LEVEL = 58.17m

TOP AREA OF BASIN AT 1:100YR STORM WATER = 264.283m²
BOTTOM AREA OF BASIN AT 1:100YR STORM WATER = 165.861m²
AVERAGE AREA = 215.072m²
1:100YR STORM VOLUME PROVIDED = 215.072m² x 0.50m = 107.536m³
1:100YR STORM VOLUME REQUIRED = 80.640m³

GREEN/BLUE ROOF ATTENUATION VOLUME
TOTAL GREEN/ BLUE ROOF AREA = 1425m²
STORAGE LAYER = 0.1m DEEP
VOID RATIO = 95%
STORAGE VOLUME PROVIDED = 143.450m³
STORAGE VOLUME REQUIRED = 24.536m³

4	CONNECTION TO FUTURE LINK ROAD DRAINAGE SHOWN FOR CLARITY	28.06.24	KD	DW
3	SITE LAYOUT REVISED TO SUIT NEW ARCHITECT'S LAYOUT DRAWING	29.05.24	SL	DW
2	DRAINAGE REVISED TO SUIT NEW ROAD LEVELS	04.04.24	KA	PB
1	SITE LAYOUT REVISED TO SUIT NEW ARCHITECT SITE LAYOUT	20.03.24	KA	PB
0	ISSUED FOR INFORMATION	14.03.24	KA	PB
REV	DESCRIPTION	DATE	BY	CHK

STATUS

P3 – PLANNING

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CLIENT

SOUTH DUBLIN COUNTY COUNCIL

JOB NAME

SOCIAL HOUSING PPP BUNDLE 4&5 –
 KISHOGHE, LUCAN

DRG. NAME

SUDS LAYOUT

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV.
23006	A1	1:500	SEPT'2023	KA	KA	PB	4

DRG. NO.

SHB5-CSD-DR-MOR-CS-P3-150