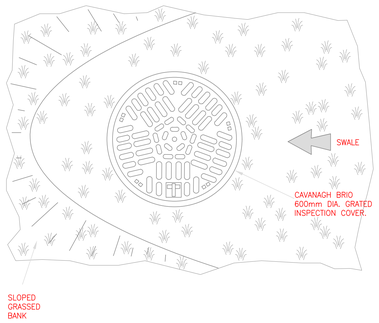
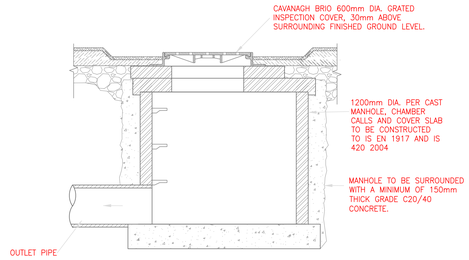
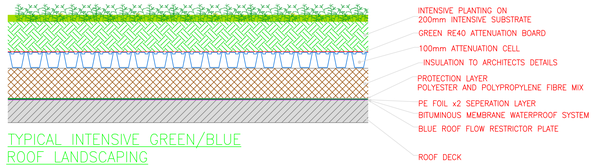


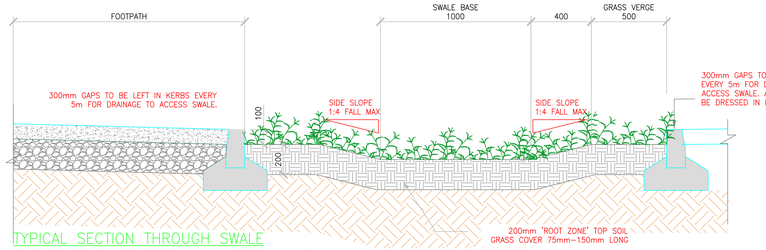
GRATED MANHOLE PLAN DETAIL D.
SCALE: N.T.S.



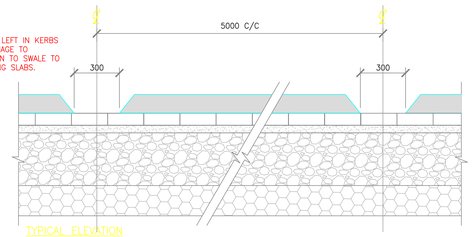
GRATED MANHOLE INLET CHAMBER – CROSS–SECTION
SCALE: N.T.S.



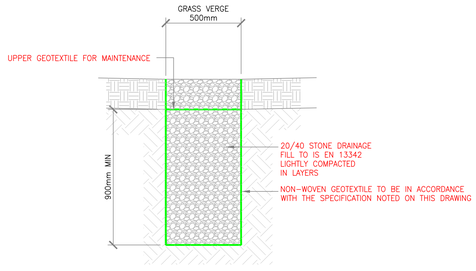
TYPICAL INTENSIVE GREEN/BLUE ROOF LANDSCAPING
SCALE 1:20



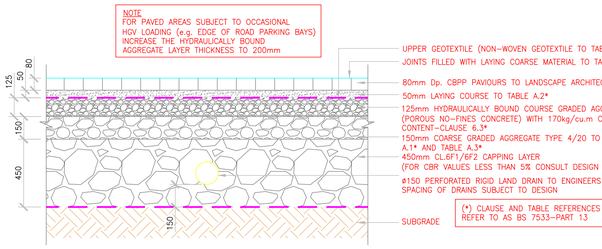
TYPICAL SECTION THROUGH SWALE TAKING DRAINAGE FROM A HARDSTANDING AREA
SCALE 1:20



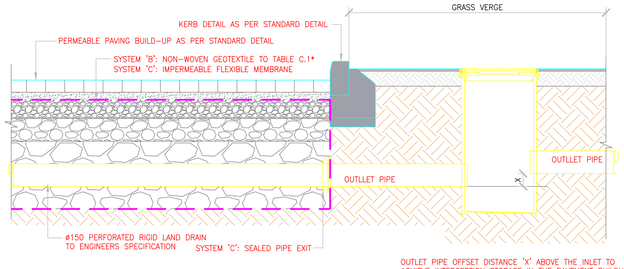
TYPICAL ELEVATION



TYPICAL SECTION THROUGH RAINGARDEN/BIORETENTION AREA
SCALE 1:20



PERMEABLE PAVING TO CAR PARKING BAYS
SCALE 1:20



TYPICAL PERMEABLE PAVING OUTLET DETAIL
SCALE 1:20

OUTLET PIPE OFFSET DISTANCE 'X' ABOVE THE INLET TO ACHIEVE INTERCEPTION STORAGE IN THE PAVEMENT BUILDUP
= 0.3xA WHERE A
= PERMANENT AREA
(ALLOWS FOR 30% VOIDS IN THE GRANULAR LAYER)

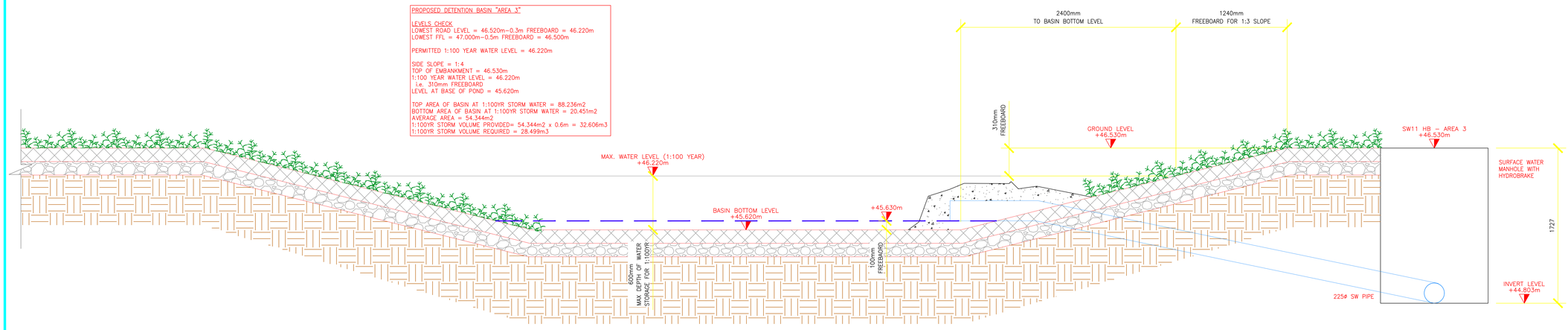
PROPOSED DETENTION BASIN "AREA 3"

LEVELS CHECK
LOWEST ROAD LEVEL = 46.520m–0.3m FREEBOARD = 46.220m
LOWEST FFL = 47.000m–0.5m FREEBOARD = 46.500m

PERMITTED 1:100 YEAR WATER LEVEL = 46.220m

SIDE SLOPE = 1:4
TOP OF EMBANKMENT = 46.530m
1:100 YEAR WATER LEVEL = 46.220m
i.e. 310mm FREEBOARD
LEVEL AT BASE OF POND = 45.620m

TOP AREA OF BASIN AT 1:100YR STORM WATER = 88.236m2
BOTTOM AREA OF BASIN AT 1:100YR STORM WATER = 20.451m2
AVERAGE AREA = 54.344m2
1:100YR STORM VOLUME PROVIDED= 54.344m2 x 0.6m = 32.606m3
1:100YR STORM VOLUME REQUIRED = 28.499m3



DETENTION BASIN AREA 3
SCALE 1:50

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

NOTES

REV	DESCRIPTION	DATE	BY	CHK
2	ISSUED FOR PLANNING	23.07.24	KA	DW
1	TITLE REVISED AND RE–ISSUED FOR INFORMATION	19.04.24	KA	DW
0	ISSUED FOR INFORMATION	22.03.24	KD	PB

STATUS
P3 – PLANNING

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CLIENT
DUBLIN CITY COUNCIL

JOB NAME
SOCIAL HOUSING PPP BUNDLE 4 (SHB4)
COLLINS AVENUE

DRG. NAME
SITE DEVELOPMENT DETAILS
SUDS DRAINAGE DETAILS

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV.
23006	A1	SHOWN	OCT'2023	KA	PB	PB	2

DRG. NO.
SHB4–CAD–DR–MOR–CS–P3–151