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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.

BY	DRAWING No. & REFERENCE	DATE
SURVEY	JEG2660 COLLINS_AVE_TOPO_290923_20	29.09.2023
ARCH	SHB4-CAD-222-M2-COA-AP-SITEWORKS	15.04.2024
LS ARCH	SHB4-CAD-DR-MAL-1-P1-0001_REV_0	17.04.2024

**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 = 88.236m<sup>2</sup>  
 BOTTOM AREA OF BASIN AT 1:100YR STORM WATER = 20.451m<sup>2</sup>  
 AVERAGE AREA = 54.344m<sup>2</sup>  
 1:100YR STORM VOLUME PROVIDED = 54.344m<sup>2</sup> x 0.6m = 32.606m<sup>3</sup>  
 1:100YR STORM VOLUME REQUIRED = 28.499m<sup>3</sup>

REFER TO DRAWING 151 FOR SECTION

**PROPOSED DETENTION BASIN "AREA 2"**

LEVELS CHECK  
 LOWEST FFL = 48.175-0.5m FREEBOARD = 47.675m  
 PERMITTED 1:100 YEAR WATER LEVEL = 47.675m

SIDE SLOPE = 1:3  
 TOP OF EMBANKMENT = 48.000  
 PERMITTED 1:100 YEAR WATER LEVEL = 47.675m  
 i.e. 325mm FREEBOARD  
 LEVEL AT BASE OF POND = 47.175m

TOP AREA OF BASIN AT 1:100YR STORM WATER = 62.700m<sup>2</sup>  
 BOTTOM AREA OF BASIN AT 1:100YR STORM WATER = m<sup>2</sup>  
 AVERAGE AREA = m<sup>2</sup>  
 1:100YR STORM VOLUME PROVIDED = m<sup>2</sup> x 0.50m = 32.197m<sup>3</sup>  
 1:100YR STORM VOLUME REQUIRED = 12.123m<sup>3</sup>

**ATTENUATION SYSTEM**

SC740  
 AREA OF DIG AT BASE OF SYSTEM 171m<sup>2</sup>  
 1:100YR STORM VOLUME PROVIDED = 112.60m<sup>3</sup>  
 1:100YR STORM VOLUME REQUIRED = 103.894m<sup>3</sup>

SEE DRAWING 152 FOR TANK DETAILS

**LEGEND**

- EXISTING SURFACE DRAINAGE LINE
- EXISTING SURFACE MANHOLE
- EXISTING SURFACE ARMSTRONG JUNCTION
- EXISTING SURFACE ROAD GULLY
- PROPOSED SURFACE DRAINAGE LINE
- PROPOSED SURFACE MANHOLE
- PROPOSED 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
- GREEN ROOF OVER BLUE ROOF

**DRAINAGE NOTES**

REFER TO DWG. 130 FOR DRAINAGE NOTES

REV	DESCRIPTION	DATE	BY	CHK
3	ISSUED FOR PLANNING	23.07.24	KA	DW
2	RED LINE SITE BOUNDARY REVISED	25.04.24	KD	DW
1	SITE LAYOUT REVISED TO SUIT LATEST ARCH LAYOUT AND COMMENTS	19.04.24	KD	DW
0	ISSUED FOR INFORMATION	27.03.24	KA	PB

**P3 - PLANNING**

**MOR**  
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CLIENT  
**DUBLIN CITY COUNCIL**

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

DRG. NAME  
**SUDS LAYOUT**

JOB REF	SHEET	SCALE	DATE	BY	ENG	APP	REV.
23006	A1	1:500	OCT2023	KA	KA	PB	3

DRG. NO.  
**SHB4-CAD-DR-MOR-CS-P3-150**

