

THE SITE BOUNDARY ACCOUNTS FOR 2036 HOWEVER, OF THE EXISTING SITE, IT IS CONSIDERED THAT THE DEVELOPED AREA CONTRIBUTING TO CHANGES IN THE DRAINAGE CHARACTERISTICS OF THE EXISTING DRAINAGE SYSTEM ACCORDING TO THE DRAINAGE STRATEGY. THE DRAINAGE STRATEGY IS BASED ON THE ASSUMPTION THAT THE DRAINAGE STRATEGY WILL COMPLY WITH THE BELOW INCLUSIONS FOR ON-SITE SURFACE WATER MANAGEMENT AND MITIGATE FLOOD RISK OFF-SITE.

- PROPOSED DISCHARGE RATE IS TO RETAIN GREENFIELD RUNOFF RATES TO BE RESTRICTED TO Q<sub>95</sub> = 300.38 L/S
- INITIAL STORAGE VOLUME REQUIRED FOR THE MAIN SITE TO MANAGE STORM EVENTS UP TO AND INCLUDING THE 1:100 YEARS STORM EVENT WITH INCLUSION FOR 40% CLIMATE CHANGE IS ESTIMATED TO BE = 52.11mm
- ADD: THE TOTAL STORAGE ACCOMMODATED AS PART OF THE SITE WIDE STRATEGY THROUGH DETENTION BASINS BELOW GROUND STORAGE TANKS IS = 36.35mm

PROPOSED SURFACE WATER DRAINAGE STRATEGY IS BASED ON DISCHARGE RATE OF RESTRICTING EXISTING GREENFIELD RUNOFF TO Q<sub>95</sub> FOR THE PROPOSED DEVELOPMENT THROUGH THE USE OF ATTENUATION. IT IS NOT ANTICIPATED THAT THE STORAGE VOLUME IDENTIFIED ABOVE WOULD BE SUFFICIENT ON ITS OWN TO BE MANAGE WITHIN THE OVERALL SITE WIDE STORAGE AS SHOWN. IT WILL THEREFORE BE NECESSARY FOR THE REMAINING ATTENUATION TO BE PROVIDED WITHIN THE DEVELOPMENT PLOTS VIA SUSTAINABLE DRAINAGE MEASURES OF BOTH SOURCE CONTROL AND ATTENUATION TO ACHIEVE THE REMAINING SITE DISCHARGE AND STORAGE NEEDS, THE BELOW SUDS FEATURES ARE RECOMMENDED AS PART OF THE ON PLOT AND SITE WIDE DRAINAGE:

- DETENTION BASINS
- BELOW GROUND TANKS
- SUDS ATTENUATION
- SWALES
- FILTER TRENCHES
- BLUE/ GREEN ROOFS
- RAIN GARDENS
- OVERSIZED PIPES

FOR CONTINUATION SEE DRAWING RAM-XX-XX-DR-C-0101

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Notes

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES UNLESS OTHERWISE STATED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT AGREEMENTS AND CONDITIONS OF SALE, SPECIFICATIONS, AND DRAWINGS.
4. ALL DRAWING WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERAGE DESIGN GUIDANCE APPENDIX C' (FORMERLY KNOWN AS 'SEWERS FOR ADOPTION'), BUILDING REGULATIONS PART H AND CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY WHERE APPROPRIATE.
5. DRAWINGS HAVE BEEN PRODUCED BASED ON: PRIOR & PARTNERS - 'MASTERPLAN LAYOUT' - 2020/08. WOT SITE A DETAILED STUDIES OS BASE MAP

KEY:

- SITE BOUNDARY
- SURFACE WATER DRAIN
- SURFACE WATER MANHOLE
- PROPOSED ATTENUATION POND
- PROPOSED ATTENUATION POND (FILLED BY MECHANICAL MEANS)
- ATTENUATION TANK
- HEADWALL OUTFALL
- EXISTING MAIN RIVER OR DRAINARY WATERCOURSE
- FLOOD ZONE 2 EXTENT
- PHASE 1 BOUNDARY EXTENT - TO ADOPT DESIGN INFORMATION
- SUB-COMMENTS WITHIN PHASE 1 DESIGN BY ARCADIS

KEY PLAN



STAGE 2			
Rev	Description	Date	By
P04	DRAFT ISSUE	16.04	GG
P03	DRAFT ISSUE	05.03	GG
P02	DRAFT ISSUE	10.10	PMG
P01	DRAFT ISSUE	25.05	PMG

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SITE WIDE  
SURFACE WATER DRAINAGE  
GENERAL ARRANGEMENT  
SHEET 1

Project No:	Scale (B3):	Drawn:	Date:
620007949-001	1:2000	PMG	MAY 2023
Drawing No:			Rev:
RAM-XX-XX-DR-C-0100			P04