

SURFACE WATER DRAINAGE STRATEGY:

THE SITE BOUNDARY ACCOUNTS FOR 203ha HOWEVER, OF THE EXISTING SITE, IT IS
CONSIDERED THAT THE DEVELOPED AREA CONTRIBUTING TO CHANGES IN THE
DRAINING CHARACTERISTICS OF THE EXISTING GREENFIELD SITE ACCOUNTS FOR A
TOTAL AREA OF 107ha. EXISTING WATERCOURSE DETAILS, LOCATION AND LEVELS TO
BE CONFIRMED BY FURTHER SITE INVESTIGATIONS TO AID WITH DESIGN FOR
DISCHARGE CONNECTIONS. NO DITCHES OR WATERCOURSES HAVE BEEN IDENTIFIED
AS REQUIRING DIVERSION AS PART OF THE DEVELOPMENT PROPOSALS.

PROPOSED SURFACE WATER DRAINAGE STRATEGY IS BASED ON DISCHARGE RATE OF
RESTRICTING EXISTING GREEN FIELD RUNOFF TO Qbar FOR THE PROPOSED
INITIAL STORAGE VOLUME REQUIRED FOR THE MAIN SITE TO MANAGE STORM
EVENTS UP TO AND INCLUDING THE 1:100 YEARS STORM EVENT WITH THE
INCLUSION FOR 40% CLIMATE CHANGE IS ESTIMATED TO BE = 52,113m³
ADD: THE TOTAL STORAGE ACCOMMODATED AS PART OF THE SITE WIDE
STRATEGY THROUGH DETENTION BASINS/ BELOW GROUND STORAGE TANKS IS
= 36,985m³

DEVELOPMENT THROUGH THE USE OF ATTENUATION. IT IS NOT ANTICIPATED THAT THE STORAGE VOLUME IDENTIFIED ABOVE WOULD BE SUFFICIENT ON ITS OWN TO BE MANAGED 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
- MUGA ATTENUATION
- SWALES
- FILTER TRENCHES
- BLUE/ GREEN ROOFS
- RAIN GARDENS
- OVERSIZED PIPES

A map of the River Mole in West Molesey, Surrey. The river flows from the bottom right towards the top left, with a sharp bend near the center. A blue dashed line with arrows indicates a path along the riverbank. A red line with a red dot marks a specific location. A blue arrow points to a bridge labeled 'B'. The river is labeled 'River Mole'.

DETENTION BASIN PLAN AREA = 1380m²
ESTIMATED VOLUME = 1720m³
EFFECTIVE DEPTH = 1.7m (300mm FREEBOARD)

Neighbourhood Park
2280m²

DETENTION BASIN PLAN AREA = 395m²
ESTIMATED VOLUME = 365m³
EFFECTIVE DEPTH = 1.7m (300mm FREEBOARD)

SW GW

A technical line drawing of a ship's hull section. A thick grey line represents the hull's outer edge. A horizontal red line, labeled 'Transverse bulkhead', runs across the middle. A vertical grey line, labeled 'Longitudinal structure', extends from the bottom up towards the top right. A blue shaded area is located at the bottom left, and a blue rectangular box is at the top right. A small circular hole is visible in the hull's side near the bottom.

DETENTION BASIN PLAN AREA = 2240m²
ESTIMATED VOLUME = 2750m³
EFFECTIVE DEPTH = 1.7m (300mm FREEBOARD)

- SURFACE WATER DRAIN POINTS CONNECTING INTO SITE WIDE NETWORK SUBJECT TO FURTHER CONFIRMATION AND DETAILED DESIGN DEVELOPMENT
- PROPOSED ONSITE UTILITY SERVICES ARE LIMITED DUE TO THE GREENFIELD NATURE OF THE SITE. COORDINATION WITH EXISTING AND PROPOSED SERVICES TO BE UNDERTAKEN DURING DETAILED DESIGN.
- THE DRAINAGE STRATEGY IS SUBJECT TO WEST SUSSEX COUNTY COUNCIL

'LFA' AND ENVIRONMENT AGENCY APPROVAL PRIOR TO CONSTRUCTION.
FURTHER COORDINATION REQUIRED WITH FINAL TREE LOCATIONS AND
DETAILS TO AVOID CLASHES WITH BELOW GROUND DRAINAGE.
SURFACE WATER DRAINAGE DESIGN HAS BEEN DEVELOPED BASED ON
EXISTING SITE TOPOGRAPHY. THE SURFACE WATER DRAINAGE STRATEGY
TO BE FURTHER REVIEWED AND COORDINATED AS THE SITE LEVEL DESI-
DEVELOPS.

FOR CONTINUATION SEE DRAWING RAM-XX-XX-DR-C-0100

IS
GN

! BE COORDINATED AND INCLUDED WITHIN PHASE 1 DESIGN.

EFFECTIVE DEPTH = 1.7m (300mm)
FREEBOARD

DETENTION BASIN PLAN AREA = 1.770m²
ESTIMATED VOLUME = 145m³
EFFECTIVE DEPTH = 1.2m (300mm)
FREEBOARD

SCALE 1:2000

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|---|-------------------------------|----------------------|--------------------------|--|--|
| SITE WIDE SURFACE WATER DRAINAGE GENERAL ARRANGEMENT SHEET 2 | | | | | |
| Project No: 1620007949-001 | Scale (@A1): 1:2000 | Drawn: PMG | Date: MAY.2023 | www.ramboll.co.uk | |
| Drawing No: RAM-XX-XX-DR-C-0101 | Rev: P04 | | | | |

| WEST OF IFIELD | | | | | | STAGE 2 |
|----------------|-------------|------------|-----|-----|-----|---------|
| Rev | Description | Date | By | Chk | App | TA |
| P03 | DRAFT ISSUE | 05.03.2025 | GG | DS | | PMG |
| P02 | DRAFT ISSUE | 10.10.2023 | PMG | DS | | |
| P01 | DRAFT ISSUE | 25.05.2023 | MS | | | |

This detailed map shows a city area with a focus on urban planning and infrastructure. A large industrial facility is highlighted with a black hatched pattern. A blue rectangular area is outlined with a thick black border, indicating a specific study or planning zone. The map includes a network of roads, a river, and a major highway. A large black arrow in the top right points to the right, labeled with a bold 'N' (North). The map is a draft issue, as indicated by the text 'DRAFT ISSUE' in the top left corner.

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Notes

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE MILLIMETRES U.N.O.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
4. ALL DRAINAGE WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERAGE SECTOR 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 - 230208_W01_SITE A DETAILED STUDIES
 - OS BASE MAP

KEY:

- SITE BOUNDARY** (Red line)
- SW** (Blue arrow)
- SURFACE WATER DRAIN** (Blue line)
- SURFACE WATER MANHOLE** (Blue circle)
- PROPOSED ATTENUATION POND** (Blue oval with diagonal hatching)
- PROPOSED ATTENUATION POND (FILLED BY MECHANICAL MEANS)** (Blue oval)
- ATTENUATION TANK** (Blue grid)
- HEADWALL OUTFALL** (Blue arrow)
- EXISTING MAIN RIVER/ ORDINARY WATERCOURSE** (Blue curved line)
- PHASE 1 BOUNDARY EXTENT - TO ARCADIS DESIGN INFORMATION** (Red dashed line)
- SUB-CATCHMENTS WITHIN PHASE 1 DESIGN BY ARCADIS** (Green dashed line)

KEY PLAN

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