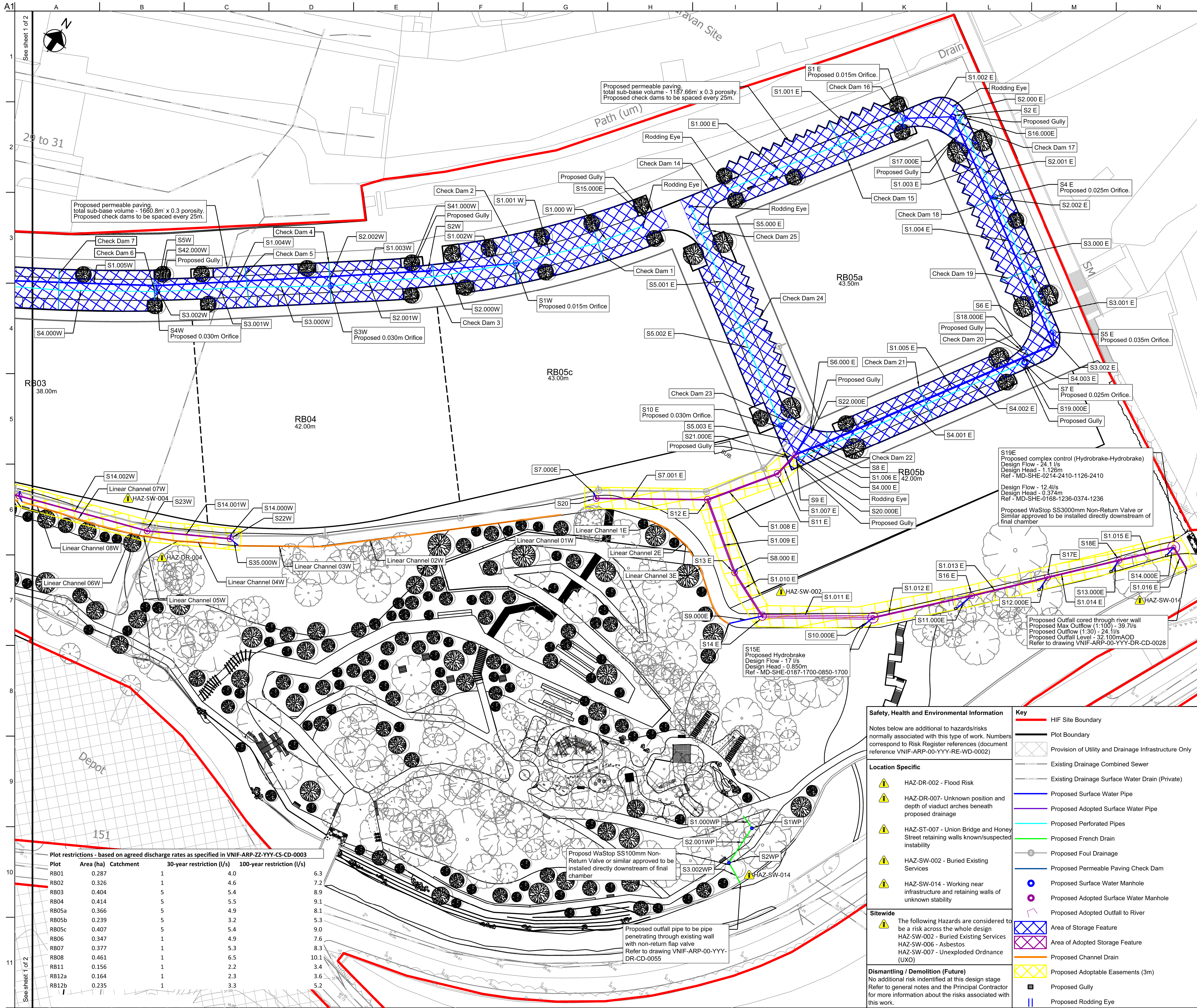




- Notes**
- All dimensions are in m, all levels in mAOD, unless specified otherwise.
 - This map is reproduced from Ordnance Survey Material with the permission of the Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office (c) Crown Copyright. License Number 100019568 (2021).
 - Layout is based on:
 - Landscape Architect masterplan drawing VNIF-PLA-ZZ-YYY-DR-L-1011 Rev P06 received 04/08/2022 by Plantit.
 - Topographical Survey drawing PS-2158-TS by Paragon Surveys dated September 2021.
 - Existing Drainage layout based on the following information:
 - Utility Search Map drawing 97079 undertaken by Atkins dated 24/06/2021.
 - For the Standard Drainage Specification refer to the "Design and Construction Guidance for foul and surface water sewers offered for adoption" - Rev 2.1 - dated 25th May 2021.
 - This drawing should be read with reference to Arup's full WS4 drawings and specifications.
 - Utilities have been drawn to PAS128 standard. The Located Service Classification table below gives a brief overview. For further details refer to document 'PAS 128:2014 Specification for underground utility detection, verification and location'.

Located Service Classification	
Type	Category
Type A Verification - Visual identification	Category 1
Type B Detection - Typically GPR and RAS techniques are used	Category 2
Type C Site Investigation - Physical surface features identified	Category 3
Type D Desktop utility records search	Category 4

- Despite Arup's best efforts to accurately display all information, the information is provided for general guidance only and, prior to any construction works being undertaken, site investigation works shall be carried out.
- A connection point has been provided for each plot within the HIF Boundary at a minimum depth of 2.0m to plot level (assuming FFL will be 0.5m above plot levels) as agreed with WSP.
 - Drainage construction materials:
 - Drainage pipes - Polypropylene and PVC in accordance with BS 13476
 - Manholes - Precast Concrete
 - Inspection Chambers - Polypropylene in accordance with BS 1758
 - As RB09/10 are outside the HIF Red Line Boundary, it has been agreed that a connection to the River Irk will be provided/constructed as part of the Plot construction. Discharge rates have been agreed as part of the HIF delivery.
 - For all schedules, refer to drawings VNIF-ARP-00-YYY-DR-CD-0009 and VNIF-ARP-00-YYY-DR-CD-0054.
 - For pipe abandonments and diversions, refer to drawing VNIF-ARP-00-YYY-DR-CU-1010 - 12 and schedule VNIF-ARP-00-YYY-SH-CU-0001.

P01	17/12/21		DH	RG	RG	---
P02	01/02/22		DH	RG	RG	---
P03	17/02/22	Amended for Planning Comments	DH	DH	RG	---
P04	28/02/22		DH	DH	RG	---
P05	21/03/22	Updated for Costing	ES	RG	RG	---
P06	05/04/22	Updated for Costing	DH	DH	RG	---
P07	14/07/22	WS4 Issue to BAM	DH	DH	RG	---
P08	08/08/22	Issued for Technical Approval	ES	DH	RG	---
P09	10/10/22	Full WS4 Issue	ES	DH	RG	---
P10	20/10/22	Issued for Full WS4	ES	DH	RG	---
Rev	Date	Description	By	Chkd	Appd	Auth

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Client

MANCHESTER CITY COUNCIL

bam nuttall

Project Title

Victoria North HIF Infrastructure & Enabling Works

Drawing Title

Proposed Surface Water Drainage General Arrangement Sheet 2 of 2

Scale at A1: 1:500

Arup Job No: 282022-00

Role: Civil - Drainage

Suitability: S4 - Issued for Construction Approval

Rev	By	ES	Chkd	DH	Appd	RG	---
P10	Date	19/10/22	Date	20/10/22	Date	20/10/22	---

Name: **VNIF - ARP - 00 - YYY - DR - CD - 0011**

Project Originator Volume Location Type Role Number

Safety, Health and Environmental Information

Notes below are additional to hazards/risks normally associated with this type of work. Numbers correspond to Risk Register references (document reference VNIF-ARP-00-YYY-RE-WD-0002)

Location Specific

- HAZ-DR-002 - Flood Risk
- HAZ-DR-007 - Unknown position and depth of viaduct arches beneath proposed drainage
- HAZ-ST-007 - Union Bridge and Honey Street retaining walls known/suspected instability
- HAZ-SW-002 - Buried Existing Services
- HAZ-SW-014 - Working near infrastructure and retaining walls of unknown stability

Siteside

The following Hazards are considered to be a risk across the whole design

- HAZ-SW-002 - Buried Existing Services
- HAZ-SW-006 - Asbestos
- HAZ-SW-007 - Unexploded Ordnance (UXO)

Dismantling / Demolition (Future)

No additional risk identified at this design stage. Refer to general notes and the Principal Contractor for more information about the risks associated with this work.

Key

- HIF Site Boundary
- Plot Boundary
- Provision of Utility and Drainage Infrastructure Only
- Existing Drainage Combined Sewer
- Existing Drainage Surface Water Drain (Private)
- Proposed Surface Water Pipe
- Proposed Adopted Surface Water Pipe
- Proposed Perforated Pipes
- Proposed French Drain
- Proposed Foul Drainage
- Proposed Permeable Paving Check Dam
- Proposed Surface Water Manhole
- Proposed Adopted Surface Water Manhole
- Proposed Adopted Outfall to River
- Area of Storage Feature
- Area of Adopted Storage Feature
- Proposed Channel Drain
- Proposed Adoptable Easements (3m)
- Proposed Gully
- Proposed Rodding Eye

Plot restrictions - based on agreed discharge rates as specified in VNIF-ARP-ZZ-YYY-CS-CD-0003					
Plot	Area (ha)	Catchment	30-year restriction (l/s)	100-year restriction (l/s)	
RB01	0.287	1	4.0	6.3	
RB02	0.326	1	4.6	7.2	
RB03	0.404	5	5.4	8.9	
RB04	0.414	5	5.5	9.1	
RB05a	0.366	5	4.9	8.1	
RB05b	0.239	5	3.2	5.3	
RB05c	0.407	5	5.4	9.0	
RB06	0.347	1	4.9	7.6	
RB07	0.377	1	5.3	8.3	
RB08	0.461	1	6.5	10.1	
RB11	0.156	1	2.2	3.4	
RB12a	0.164	1	2.3	3.6	
RB12b	0.235	1	3.3	5.2	