



1 IN 30 YEAR: 1.1/s
1 IN 100 YEAR: 1.4/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
34m³ - 55m³

ACUTE HOSPITAL TO BE
RETAINED THEREFORE NO
CHANGES TO THE DRAINAGE
NETWORK ARE PROPOSED FOR
THIS AREA

TOTAL AREA: 0.14ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.14ha
GREENFIELD 2.3/s
1 IN 1 YEAR: 2.0/s
1 IN 30 YEAR: 2.8/s
1 IN 100 YEAR: 4.7/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
42m³ - 68m³

TOTAL AREA: 5.024ha
ASSUME 70% IMPERMEABLE AREA
DRAINAGE AREA: 3.517ha
QBAR 19.8/s
1 IN 1 YEAR: 17.2/s
1 IN 30 YEAR: 33.5/s
1 IN 100 YEAR: 41.1/s
ESTIMATED STORAGE
2087m³ - 2950m³

GMMH
REQUESTED FLOW 248l/s
Connection to Masterplan
drainage or direct to the UU
network is considered.

TOTAL AREA: 1.42ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 1.42ha
QBAR 8 l/s
1 IN 1 YEAR: 7.0/s
1 IN 30 YEAR: 13.6/s
1 IN 100 YEAR: 16.7/s
ESTIMATED STORAGE
842m³ - 1191m³

TOTAL AREA: 0.92ha
ASSUME 40% IMPERMEABLE AREA
DRAINAGE AREA: 0.368ha
QBAR 5.2/s
1 IN 1 YEAR: 4.5/s
1 IN 30 YEAR: 8.8/s
1 IN 100 YEAR: 10.8/s
ESTIMATED STORAGE
545m³ - 771m³

TOTAL AREA: 0.944ha
ASSUME 100%
IMPERMEABLE AREA
DRAINAGE AREA: 0.944ha
QBAR 5.3/s
1 IN 1 YEAR: 4.6/s
1 IN 30 YEAR: 9.0/s
1 IN 100 YEAR: 11.1/s
ESTIMATED STORAGE
561m³ - 792m³

TOTAL AREA: 0.39ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.39ha
GREENFIELD 2.2/s
1 IN 1 YEAR: 1.9/s
1 IN 30 YEAR: 3.7/s
1 IN 100 YEAR: 4.6/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
179m³ - 259m³

TOTAL AREA: 0.2ha

DUE TO LEVELS THIS AREA NEEDS
TO DRAIN TO UU SEWER AT
RESTRICTED RATE: 5/s

MSCP
REQUESTED FLOW 5l/s
GREENFIELD RATE

TOTAL AREA: 0.29ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.29ha
GREENFIELD 1.6/s
1 IN 1 YEAR: 1.4/s
1 IN 30 YEAR: 2.8/s
1 IN 100 YEAR: 3.4/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
119m³ - 176m³

TOTAL AREA: 0.75ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.75ha
GREENFIELD 4.2/s
1 IN 1 YEAR: 3.7/s
1 IN 30 YEAR: 7.2/s
1 IN 100 YEAR: 8.8/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
423m³ - 600m³

TOTAL AREA: 0.23ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.23ha
GREENFIELD 1.3/s
1 IN 1 YEAR: 1.1/s
1 IN 30 YEAR: 2.2/s
1 IN 100 YEAR: 2.7/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
86m³ - 130m³

TOTAL AREA: 0.29ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.29ha
GREENFIELD 1.6/s
1 IN 1 YEAR: 1.4/s
1 IN 30 YEAR: 2.7/s
1 IN 100 YEAR: 3.3/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
119m³ - 176m³

TOTAL AREA: 0.40ha
ASSUME 100% IMPERMEABLE AREA
DRAINAGE AREA: 0.40ha
GREENFIELD 2.3/s
1 IN 1 YEAR: 2.0/s
1 IN 30 YEAR: 2.8/s
1 IN 100 YEAR: 4.7/s
RESTRICTED RATE: 5/s
ESTIMATED STORAGE
185m³ - 268m³

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- FOR GENERAL NOTES REFER TO DRAWING.
- CONTRACTOR TO ENSURE REQUIRED FORMATION LEVELS ARE ACHIEVED AND ANY EXISTING PILES ENCOUNTER SHOULD BE REMOVED.

--- Indicative Surface Water
--- Indicative Highway Water

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION UNUSUAL SIGNIFICANT HAZARDS

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT. IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

CONSTRUCTION
1. CONTRACTOR TO ENSURE SITE IS SCANNED FOR EXISTING SERVICES THAT MAY BE ON SITE.
2. CONTRACTOR TO ASSESS FOR GROUND CONTAMINATION.
3. CONTRACTOR TO ENSURE SUITABLE MEASURES ARE TAKEN DURING ANY EXCAVATIONS/TEMPORARY WORKS.
4. A SUITABLE TRAFFIC MANAGEMENT PLAN SHOULD BE IN PLACE FOR DURATION OF WORKS.
NOTE: CURTIN'S ARE NOT LIABLE FOR ANY OF THE ABOVE.

MAINTENANCE / CLEANING
1. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED, THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS SHOULD BE FOLLOWED.
2. THE RECOMMENDED INSPECTIONS OF OPERATIONS AND FREQUENCIES ARE TYPICAL ONLY AND SHOULD BE MORE FREQUENT INITIALLY TO ENSURE THAT THERE ARE NO UNFORESEEN ISSUES WITH THE OPERATION AND THEN ADJUSTED TO SUIT THE SITE REQUIREMENTS.

DECOMMISSIONING / DEMOLITION
1. N/A
2.
3.

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Rev:	Description:	Date:	By:	Chkd:



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Status: ISSUED FOR CO-ORDINATION

S1

Project: North Manchester General Hospital

Orig Title: Masterplan Drainage - River option
Sheet 2 of 2

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	04/12/20	DE	DE	AR

Scale: 1:1000	Project No:	Originator:	Zone:	Level:	Type:	Discipline:	Category / Number:	Rev:
	NMGH - CUR - ZZ						72102	-P01

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