PROPOSED IMPERMEABLE AREA = 1,044m²

SURFACE WATER EXCEEDANCE ROUTES

DRAINAGE KEY

- EXISTING UU COMBINED SEWER
- PROPOSED PRIVATE FOUL WATER SEWER
- PROPOSED PRIVATE SURFACE WATER SEWER
- PROPOSED COMBINED SEWER
- PROPOSED PRIVATE 300Ø FW PPIC
- PROPOSED PRIVATE 300Ø SW PPIC
- PROPOSED PRIVATE 450Ø FW PPIC UNLESS OTHERWISE STATED
- PROPOSED PRIVATE 450Ø SW PPIC UNLESS OTHERWISE STATED
- PROPOSED PRIVATE 600Ø SW PPIC
- PROPOSED PRIVATE CATCH PIT 600Ø
- PROPOSED SW HYDROBRAKE MANHOLE 1200Ø
- PROPOSED SW GULLY

DRAINAGE NOTES:

ALL DRAINAGE PROPOSALS ARE INDICATED FOR INDICATIVE PURPOSES ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION.

FURTHER CLARIFICATION REQUIRED REGARDING LOCATION OF SVP AND RWP LOCATIONS BY ARCHITECT PRIOR TO DETAILED DESIGN.

CURRENTLY INVERT LEVELS ARE SUBJECT TO CHANGE FOR THE DRAINAGE DESIGN PENDING FINALISED FINISH FLOOR LEVEL. FURTHER INVESTIGATIONAL WORKS ARE REQUIRED TO DETERMINE DEPTHS AT THE OUTFALL LOCATIONS BEFORE THE DESIGN CAN BE CONFIRMED.

ALL UNDER GROUND LEVEL DRAINAGE LOCATIONS INDICATIVE PENDING DOWN PIPE LOCATION CONFIRMATION BY ARCHITECT AND FINALISED STRUCTURAL DESIGN.

ALL INDICATED SURFACE WATER SEWERS ARE 100mm IN DIAMETER UNLESS OTHERWISE STATED.

ALL FOUL WATER SEWERS ARE 100mm IN DIAMETER UNLESS OTHERWISE STATED.

ALL MANHOLE AND SEWER TRENCH WORKS SHOULD COMPLY WITH PART H OF THE BUILDING REGULATIONS.

FFL TO BE SET TO OR ABOVE EXISTING GROUND LEVEL MITIGATING FLOOD RISK. SITE BOUNDARY DOES NOT PROVIDE ANY OVERLAND FLOWS NOR ARE ANY OFF SITE LEVELS TO BE CHANGED POSING NO RISK TO NEIGHBORING PROPERTIES.

ALL PPIC'S WITHIN PRIVATE SHARED DRIVEWAY TO HAVE C250 150 CONCRETE SURROUND LIDS.

INTERNAL OUTFALL DRAINAGE FROM PICK UP POINTS TO FIRST PPIC/MH CHAMBER TO HAVE MINIMUM GRADIENT OF 1 IN 40 AND TO BE CHECKED WITHIN FOUNDATION DESIGN PROCESS.

DRIVEWAY DRAINAGE TO BE PROVIDED AT DETAILED DESIGN STAGE.

GENERAL NOTES

THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.

ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS AND WHERE APPLICABLE LOCAL AUTHORITIES REQUIREMENTS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY SERVICE/UTILITY APPARATUS IN THE VICINITY OF THE WORKS BEFORE DRAINAGE INSTALLATION HAS COMMENCED, SHAPE WILL ACCEPT NO CLAIMS WHATSOEVER IN RESPECT OF ANY LOSSES OR DAMAGE CAUSED IN RESPECT OF SUCH APPARATUS.

BELOW GROUND GEO-CELLULAR STORAGE DETAILS

DESIGN BASED ON IMPERMEABLE AREA OF 0.140ha (AS MEASURED FROM ARCHITECTS LAYOUT DRAWING REF. 1227_A_DR_007-D-Proposed Site Plan Opt 02).

INVERT LEVEL:	78.80M AOD
DEPTH OF TANK:	0.8M
TOP OF TANK LEVEL:	79.60M AOD
COVER LEVEL:	80.35M
PLAN AREA:	35M² (DIMENSIONS = 10m (L) x 3.5m (W))

MAX VOLUME 28M³ TO ACCOMMODATE STORAGE FOR 1 IN 100 YEAR RETURN PERIOD STORM EVENT WITH A 40% CLIMATE CHANGE ALLOWANCE.
100 YEAR WATER LEVEL: 79.586M AOD

APPROPRIATE MANAGEMENT COMPANY TO BE APPOINTED FOR MAINTENANCE.

HYDROBRAKE CONTROL CHAMBER
CL = 80.50m
IL = 78.65m
MANHOLE SIZE = 1200Ø
DISCHARGE RATE = 5.0L/S.
DESIGN HEAD = 1.45m
REF = MD-SHE-0099-5000-1450-5000

A DISCHARGE RATE OF 5.0L/S HAS BEEN AGREED WITH UU AS PER THE PRE-DEVELOPMENT ENQUIRY. REF - 03251318.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND CONFIRM THE CONDITION OF THE EXISTING COMBINED SEWER ONSITE TO THE EXISTING OFFSITE COMBINED NETWORK PRIOR TO CONSTRUCTION. SHAPE WILL ACCEPT NO CLAIMS WHATSOEVER IN RESPECT OF ANY LOSSES OR DAMAGE CAUSED IN RESPECT OF SUCH APPARATUS.

SURFACE AND FOUL WATER TO COMBINE ONSITE PRIOR TO DISCHARGING TO THE EXISTING UNITED UTILITIES COMBINED NETWORK VIA EXISTING ON-SITE MANHOLE. CONNECTION TO BE AGREED WITH UNITED UTILITIES VIA A PART 1 S106 APPLICATION.
LEVEL OF EXISTING CONNECTION POINT TO BE CHECKED AND CONFIRMED ON SITE BY CONTRACTOR.

UU 1401
CL: 81.04
IL: 74.37

UU 2400
CL: 77.52
IL: 71.93

THIS DRAWING IS SUBJECT TO SECTION 106 APPROVAL FROM UNITED UTILITIES AND IS NOT TO BE USED FOR CONSTRUCTION.

P03	ZJ	Drainage strategy notes updated	11/01/2023
P02	ZJ	Drainage strategy updated	19/12/2022
P01	ZJ	First issue	13/12/2022
Rev	By	Description	Date

Revision Schedule

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PROJECT: Plant Hill Blackley Manchester

TITLE: Preliminary Drainage Strategy

Client: Irwell Valley Homes

Status: -

Purpose of Issue: Preliminary

Designed By: ZJ

Drawn By: ZJ

Shape Project No.: 2109

Sheet No.: C-0001

Scale (@ A1): 1:200

Date: 08/12/2022

Rev: P03

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