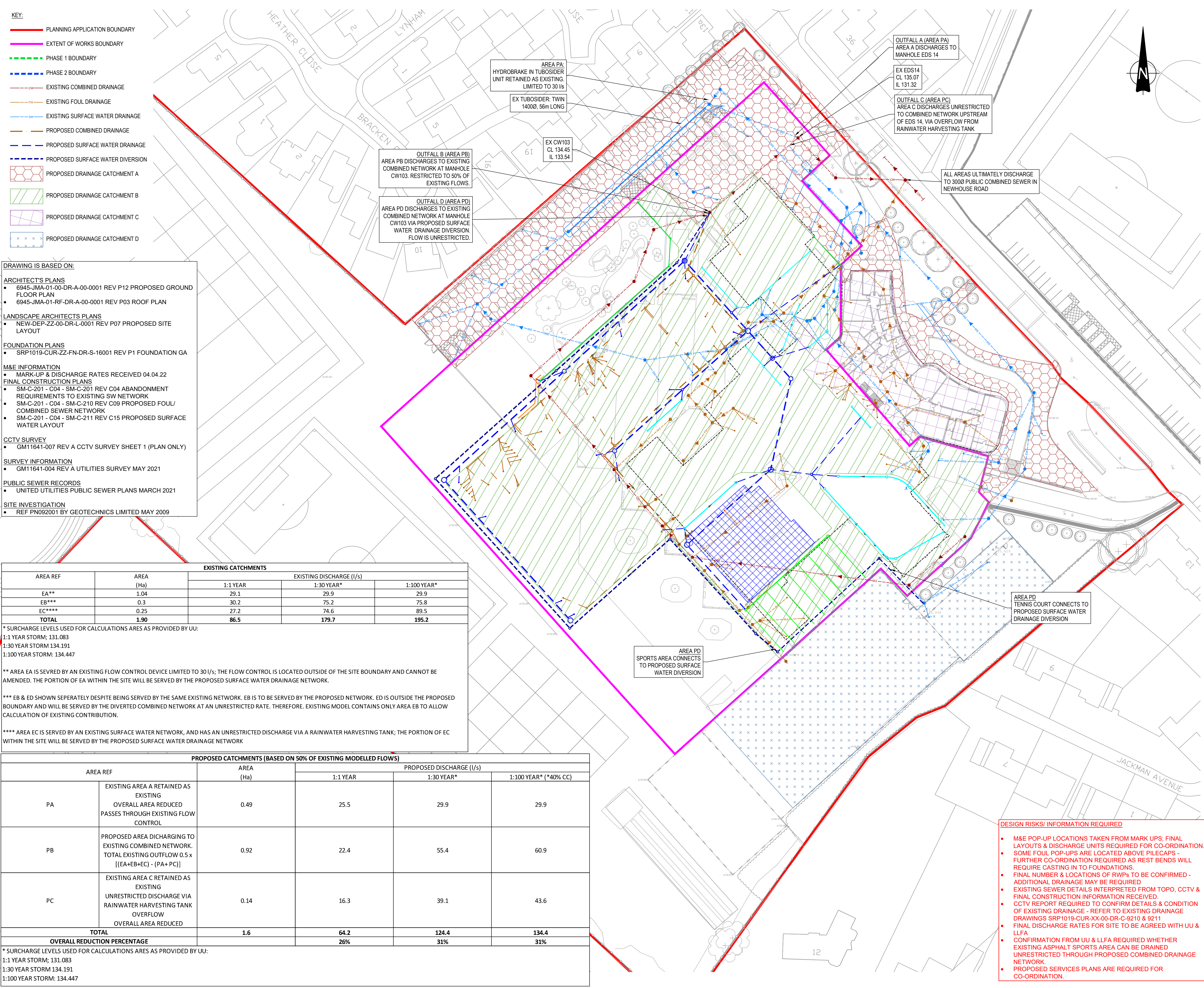




DRAWING IS BASED ON:

ARCHITECT'S PLANS

- 6945-JMA-01-00-DR-A-00-0001 REV P12 PROPOSED GROUND FLOOR PLAN
- 6945-JMA-01-RF-DR-A-00-0001 REV P03 ROOF PLAN

LANDSCAPE ARCHITECTS PLANS

- NEW-DEP-ZZ-00-DR-L-0001 REV P07 PROPOSED SITE LAYOUT

FOUNDATION PLANS

- SRP1019-CUR-ZZ-FN-DR-S-16001 REV P1 FOUNDATION GA

M&E INFORMATION

- MARK-UP & DISCHARGE RATES RECEIVED 04.04.22
- FINAL CONSTRUCTION PLANS
- SM-C-201 - C04 - SM-C-201 REV C04 ABANDONMENT REQUIREMENTS TO EXISTING SW NETWORK
- SM-C-201 - C04 - SM-C-210 REV C09 PROPOSED FOUL/ COMBINED SEWER NETWORK
- SM-C-201 - C04 - SM-C-211 REV C15 PROPOSED SURFACE WATER LAYOUT

CCTV SURVEY

- GM11641-007 REV A CCTV SURVEY SHEET 1 (PLAN ONLY)

SURVEY INFORMATION

- GM11641-004 REV A UTILITIES SURVEY MAY 2021

PUBLIC SEWER RECORDS

- UNITED UTILITIES PUBLIC SEWER PLANS MARCH 2021

SITE INVESTIGATION

- REF PN092001 BY GEOTECHNICS LIMITED MAY 2009

AREA REF	AREA (Ha)	EXISTING DISCHARGE (l/s)		
		1:1 YEAR	1:30 YEAR*	1:100 YEAR*
EA**	1.04	29.1	29.9	29.9
EB***	0.3	30.2	75.2	75.8
EC****	0.25	27.2	74.6	89.5
TOTAL	1.90	86.5	179.7	195.2

* SURCHARGE LEVELS USED FOR CALCULATIONS ARE AS PROVIDED BY UU:
1:1 YEAR STORM: 131.083
1:30 YEAR STORM 134.191
1:100 YEAR STORM: 134.447

** AREA EA IS SEVED BY AN EXISTING FLOW CONTROL DEVICE LIMITED TO 30 l/s; THE FLOW CONTROL IS LOCATED OUTSIDE OF THE SITE BOUNDARY AND CANNOT BE AMENDED. THE PORTION OF EA WITHIN THE SITE WILL BE SERVED BY THE PROPOSED SURFACE WATER DRAINAGE NETWORK.

*** EB & ED SHOWN SEPERATELY DESPITE BEING SERVED BY THE SAME EXISTING NETWORK. EB IS TO BE SERVED BY THE PROPOSED NETWORK. ED IS OUTSIDE THE PROPOSED BOUNDARY AND WILL BE SERVED BY THE DIVERTED COMBINED NETWORK AT AN UNRESTRICTED RATE. THEREFORE. EXISTING MODEL CONTAINS ONLY AREA EB TO ALLOW CALCULATION OF EXISTING CONTRIBUTION.

**** AREA EC IS SERVED BY AN EXISTING SURFACE WATER NETWORK, AND HAS AN UNRESTRICTED DISCHARGE VIA A RAINWATER HARVESTING TANK; THE PORTION OF EC WITHIN THE SITE WILL BE SERVED BY THE PROPOSED SURFACE WATER DRAINAGE NETWORK

PROPOSED CATCHMENTS (BASED ON 50% OF EXISTING MODELLED FLOWS)					
AREA REF	EXISTING AREA A RETAINED AS EXISTING OVERALL AREA REDUCED PASSES THROUGH EXISTING FLOW CONTROL	AREA (Ha)	PROPOSED DISCHARGE (l/s)		
			1:1 YEAR	1:30 YEAR*	1:100 YEAR* (*40% CC)
PA	EXISTING AREA A RETAINED AS EXISTING OVERALL AREA REDUCED PASSES THROUGH EXISTING FLOW CONTROL	0.49	25.5	29.9	29.9
PB	PROPOSED AREA DICHARGING TO EXISTING COMBINED NETWORK. TOTAL EXISTING OUTFLOW 0.5 x [(EA+EB+EC) - (PA+PC)]	0.92	22.4	55.4	60.9
PC	EXISTING AREA C RETAINED AS EXISTING UNRESTRICTED DISCHARGE VIA RAINWATER HARVESTING TANK OVERFLOW OVERALL AREA REDUCED	0.14	16.3	39.1	43.6
TOTAL		1.6	64.2	124.4	134.4
OVERALL REDUCTION PERCENTAGE			26%	31%	31%

* SURCHARGE LEVELS USED FOR CALCULATIONS ARE AS PROVIDED BY UU:
1:1 YEAR STORM: 131.083
1:30 YEAR STORM 134.191
1:100 YEAR STORM: 134.447

GENERAL NOTES:

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 SRP1019-CUR-XX-XX-DR-C-9224

P04	REVISED WITH UPDATED SURCHARGED OUTFALL LEVELS	21.07.22	ATL	MW
P03	ISSUED FOR PLANNING - UPDATED BOUNDARIES	25.05.22	TH	MW
P02	ISSUED FOR PLANNING	20/05/22	ATL	MW
P01	ISSUED FOR COMMENT	13/04/22	ATL	MW
Rev:	Description:	Date:	By:	Chkd:



Merchant Exchange, 17-19 Whitworth St West, Manchester, M1 5WG
0161 235 2384
manchester@curtins.com
www.curtins.com

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Status: **SUITABLE FOR INTERNAL REVIEW / COMMENT** **S3**

Project: **NEWHOUSE ACADEMY**

Orig Title:

PROPOSED DRAINAGE CATCHMENTS

Drawn By	Designed By	Checked By
ATL	ATL	MW
Date	13/04/22	Scales @ A1
		1:250

Project No - Originator - Function - Spatial - Form - Discipline - Number

SRP1019 - CUR - XX - 00 - DR - C - 9215 P04

- DESIGN RISKS/ INFORMATION REQUIRED
- M&E POP-UP LOCATIONS TAKEN FROM MARK UPS; FINAL LAYOUTS & DISCHARGE UNITS REQUIRED FOR CO-ORDINATION.
 - SOME FOUL POP-UPS ARE LOCATED ABOVE PILECAPS - FURTHER CO-ORDINATION REQUIRED AS REST BENDS WILL REQUIRE CASTING IN TO FOUNDATIONS.
 - FINAL NUMBER & LOCATIONS OF RWPs TO BE CONFIRMED - ADDITIONAL DRAINAGE MAY BE REQUIRED.
 - EXISTING SEWER DETAILS INTERPRETED FROM TOPO, CCTV & FINAL CONSTRUCTION INFORMATION RECEIVED.
 - CCTV REPORT REQUIRED TO CONFIRM DETAILS & CONDITION OF EXISTING DRAINAGE - REFER TO EXISTING DRAINAGE DRAWINGS SRP1019-CUR-XX-00-DR-C-9210 & 9211
 - FINAL DISCHARGE RATES FOR SITE TO BE AGREED WITH UU & LLFA
 - CONFIRMATION FROM UU & LLFA REQUIRED WHETHER EXISTING ASPHALT SPORTS AREA CAN BE DRAINED UNRESTRICTED THROUGH PROPOSED COMBINED DRAINAGE NETWORK.
 - PROPOSED SERVICES PLANS ARE REQUIRED FOR CO-ORDINATION.