THIS DRAWING HAS BEEN DEVELOPED BASED ON THE INFORMATION CURRENTLY AVAILABLE AND IS SUBJECT TO CHANGE FOLLOWING DETAILED DESIGN AND FOLLOWING RECEIPT /CONFIRMATION OF FURTHER INFORMATION, AS FOLLOWS:-

1. POP-UP LOCATIONS ARE BASED ON PRELIMINARY MEP INFORMATION. FINAL POP UP POSITIONS AND RAINWATER PIPE POSITIONS SUBJECT TO FINAL ARCHITECTURAL AND MEP LAYOUTS.
2. EXISTING DRAINAGE TO BE GRUBBED OUT / DIVERTED OR MAINTAINED AS NECESSARY, TO BE REVIEWED AND CONFIRMED FOLLOWING RECEIPT OF CCTV SURVEY INFORMATION. APPLICATIONS REQUIRED TO BE APPROVED BY UNITED UTILITIES.
3. SETTING OUT OF INTERNAL AND EXTERNAL SERVICES SUBJECT TO RECEIPT OF FINAL MEP SERVICES LAYOUT.
4. CONFIRMATION OF PROPOSED FOUNDATIONS AND SLAB EDGE DETAILS.
5. SPORTS PITCH BUILD UPS ARE INDICATIVE ONLY AND ARE TO BE CONFIRMED BY THE SPECIALIST CONTRACTOR.
6. MUGA PITCH AND PERMEABLE BUILD UPS / DEPTHS ARE SUBJECT CHANGE FOLLOWING FINAL DETAILED DESIGN CALCULATIONS.
7. ATTENUATION TANK SIZE SUBJECT TO CHANGE FOLLOWING FINAL DETAILED DESIGN CALCULATIONS.
8. FINAL APPROVAL FROM UNITED UTILITIES OF AN ALLOWABLE DISCHARGE RATE OF 105l/s.
9. RECEIPT OF FINAL LANDSCAPE PROPOSALS, INCLUDING A DETAILED LEVELS STRATEGY.
10. RECEIPT OF FINAL ARCHITECTURAL LAYOUTS.
11. RECEIPT OF CCTV SURVEY AND SI REPORT.

AREA 1 - NORTHWEST

EXISTING OFF-SITE DRAINAGE FROM THIS AREA, CROSSING INTO SITE, IS TO BE MAINTAINED AND/OR DIVERTED ACCORDINGLY TO RETAIN ITS CONNECTION TO THE ADOPTED NETWORK AT ITS EXISTING DISCHARGE RATE, AS AGREED WITH UU. SCHEME PROPOSALS ARE NOT CURRENTLY INDICATED AND ARE SUBJECT TO RECEIPT OF A FULL CCTV SURVEY.

HYDE ROAD

PERMEABLE SURFACE
AREA 490m²
0.4m DEEP STORAGE LAYER
STORAGE 50m³
(30% VOID RATIO ASSUMED)

EXISTING MANHOLE AND INCOMING CONNECTIONS RETAINED, FURTHER CCTV INVESTIGATION TO BE CARRIED OUT TO CONFIRM CONNECTION

ROAD AND CAR PARK DRAINED VIA ROAD GULLIES AND PERMEABLE SURFACE

AREA DRAINED TO FILTER DRAIN

S2.1 CL 60.40 IL 58.90 1200Ø
S2.2 CL 60.50 IL 58.79 1200Ø
S2.3 CL 60.55 IL 58.65 1200Ø
S2.4 CL 60.60 IL 58.55 1200Ø
S1.6 CL 60.50 IL 59.00 450Ø CP PPIC
S1.8 CL 60.60 IL 58.22 450Ø RA PPIC
S1.7 CL 60.60 IL 58.39 450Ø RA PPIC
S1.5 CL 60.60 IL 58.69 450Ø RA PPIC
S1.4 CL 60.60 IL 58.95 450Ø RA PPIC
S1.3 CL 60.50 IL 59.18 450Ø RA PPIC
S1.2 CL 60.60 IL 59.50 450Ø CP PPIC
S1.1 CL 60.60 IL 59.60 CONTROL PPIC
S3.1 CL 61.30 IL 59.80 1200Ø
S3.2 CL 60.90 IL 59.18 1200Ø
S2.5 CL 60.60 IL 58.19 1200Ø
S4.1 CL 60.80 IL 59.30 1200Ø
S1.9 CL 60.60 IL 57.95 1800Ø
S6.1 CL 60.60 IL 59.60 450Ø CP PPIC
S5.1 CL 60.40 IL 58.90 1200Ø
S7.6 CL 60.60 IL 59.10 1500Ø
S7.7 CL 60.50 IL 58.80 1800Ø CP
S11.1 CL 60.80 IL 59.80 CONTROL PPIC
S11.2 CL 60.85 IL 59.70 450Ø CP PPIC
S10.2 CL 60.95 IL 59.80 450Ø CP PPIC
S10.1 CL 60.90 IL 59.90 CONTROL PPIC
S12.2 CL 60.60 IL 59.50 450Ø CP PPIC
S12.1 CL 60.60 IL 59.60 CONTROL PPIC
S1.12 CL 60.60 IL 57.50 1800Ø CONTROL
S1.10 CL 60.60 IL 57.61 1800Ø
S1.11 CL 60.55 IL 57.54 1500Ø CP
S13.2 CL 60.60 IL 59.63 450Ø PPIC
S13.1 CL 60.60 IL 59.85 450Ø PPIC
F1.1 CL 60.60 IL 59.55 450Ø PPIC
F1.2 CL 60.60 IL 59.85 450Ø PPIC
F1.3 CL 60.60 IL 59.85 450Ø PPIC
F1.4 CL 60.60 IL 59.85 450Ø PPIC
F1.5 CL 60.60 IL 59.21 450Ø RA PPIC
F1.6 CL 60.60 IL 59.85 450Ø PPIC
F1.7 CL 60.60 IL 59.85 450Ø PPIC
F1.8 CL 60.60 IL 58.85 450Ø RA PPIC
F1.9 CL 60.70 IL 59.95 450Ø PPIC
F1.10 CL 60.60 IL 58.49
F2.1 CL 60.60 IL 59.85 450Ø PPIC
F2.2 CL 60.60 IL 59.85 450Ø PPIC
F2.3 CL 60.60 IL 59.49 450Ø PPIC
F2.4 CL 60.60 IL 59.40 450Ø PPIC
DSW1 CL 60.70 IL 59.20 1200Ø
DSW2 CL 60.80 IL 58.74 1200Ø
Ex SWMH CL 61.99 IL 59.75
Ex FWMH CL 61.48 IL 58.48
BD = 59.00

PROVISION OF GREASE TRAPS AND THEIR LOCATION ARE TO BE ADVISED. SPECIFICATION TO BE PROVIDED BY SPECIALIST.

FFL 60.75
T.B.C

BELOW GROUND ATTENUATION TANK
AREA 10m x 17m
VOLUME 170m³
TANK IL 57.52

PROPOSED DISCHARGE RATE 105 l/s
FINAL APPROVAL WITH UU TO BE CONFIRMED (SEE NOTES 9)

PROPOSED ACO / Hauraton Channel

Access box

PERMEABLE SURFACE
AREA 700m²
0.4m DEEP STORAGE LAYER
STORAGE 84m³
(30% VOID RATIO ASSUMED)

PROPOSED PERMEABLE PAVEMENT OUTLET CONSISTING OF PERMAVOID RAINWATER DIFFUSER UNIT WITH CONNECTION TO SEL CONTROFLOW FLOW CONTROL CHAMBER WITH GUARDED ORIFICE, LIMTED TO 5 l/s PER MUGA PITCH.

EXISTING MANHOLE AND INCOMING CONNECTIONS RETAINED, FURTHER CCTV INVESTIGATION TO BE CARRIED OUT TO ASCERTAIN CONNECTION

TO SPORT
STANDARD
ELY. TO BE
BY OTHERS
HARGE 5l/s
REA 1050m²
AGE LAYER
RAGE 90m³
ASSUMED)
HOLE TO BE

- SITE BOUNDARY (5.3ha)
- PROPOSED SURFACE WATER DRAINAGE
- RWP — PROPOSED RAINWATER PIPE (RWP)
- PROPOSED FOUL WATER DRAINAGE
- FG / SVP — PROPOSED FLOOR GULLY (FG) / SOIL VENT PIPE (SVP)
- EXISTING PUBLIC SURFACE WATER NETWORK
- EXISTING PUBLIC FOUL WATER NETWORK
- PITCH DRAINAGE BY SPECIALIST
- PROPOSED FILTER DRAIN / RAIN GARDEN
- PROPOSED ACO / HAURATON CHANNEL
- PROPOSED ATTENUATION TANK
- PROPOSED PERMEABLE SURFACE WITH STORAGE
- PROPOSED MUGA PERMEABLE SURFACE WITH STORAGE
- SPORTS PITCHES & MUGA CONTRIBUTING AREAS
- RG — PROPOSED ROAD GULLY (FINAL LOCATIONS TO BE CONFIRMED FOLLOWING RECEIPT OF LEVELS STRATEGY DRAWINGS)

BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING.

ANY DRAWING ERRORS OR DIVERGENCES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW.

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
2. THIS DRAWING IS BASED ON:
   2.1. TOPOGRAPHICAL SURVEY DWG FILE REF. 20D0510-001 TO 004 DATED JULY 2020 BY SURVEY OPERATIONS
   2.2. FULL UTILITIES SURVEY DWG FILE REF. 0620-ARC-13319 DATED 06/07/2020 BY SITE VISION SURVEYS
   2.3. PROPOSED SITE PLAN DWG FILE REF. "009433-SPA-01-XX-DR-L-910001" REVISION P02. RECEIVED ON 17/03/2021 BY SPACE ARCHITECTS
   2.4. LEVEL 00 GA DWG FILE REF. "009433-SPA-01-00-DR-A-010001" REVISION P06. RECEIVED ON 17/03/2021 BY SPACE ARCHITECTS
   2.5. UNITED UTILITIES RECORD MAP, UU REF. UUPS-ORD-175605 DATED 22/07/2020 (pdf)

A FULL CCTV SURVEY IS REQUIRED TO BE CARRIED OUT TO CONFIRM ALL ON SITE, AND ANY OFFSITE DRAINAGE ENCROACHING/CROSSING THE SITE. UNKNOWN EXISTING DRAINAGE MIGHT BE PRESENT, WHICH IS NOT CURRENTLY INDICATED ON THIS DRAWING.

3. BEFORE STARTING ANY WORKS, CONTRACTOR TO CHECK INVERT LEVELS AND POSITIONS OF EXISTING DRAINS, SEWERS, INSPECTIONS CHAMBERS AND MANHOLES AGAINST INFORMATION SHOWN ON THIS DRAWING, ENGINEER TO BE INFORMED IF FOUND DIFFERENT TO NOTED.
4. ROCKER PIPES ARE TO BE PROVIDED AT ALL CONCRETE CASED INTERFACES.
5. ALL DRAIN POINTS AND MANHOLE LOCATIONS/INVERT LEVELS/DIMENSIONS ARE TO BE CONFIRMED, SUBJECT TO DESIGN DEVELOPMENT.
6. EXTERNAL DRAINAGE OUTSIDE BUILDING FOOTPRINT: CLASS Z CONCRETE SURROUND TO BE PROVIDED FOR PIPES WITH COVER LESS THAN 1.2 m ABOVE THE CROWN OF THE PIPE FOR ROADS AND 0.6 m FOR SOFT AND PEDESTRIAN AREAS ONLY AND UNDER ALL FOUNDATIONS AND WHERE PIPES LAID WITHIN 1 m OF FOUNDATIONS.
7. SURFACE WATER: DESIGNED TO ACCOMMODATE 1in1, 1in30 AND 1in100 + 40% CC CRITICAL STORM EVENTS. SURFACE.
8. DESIGN SUBJECT TO CHANGE FOLLOWING:
   8.1. APPROVAL PROCESS WITH LOCAL AUTHORITIES AND WATER COMPANY
   8.2. CONFIRMATION OF INFILTRATION TEST
   8.3. HYDRAULIC MODELING
9. DRAINAGE DESIGN STRATEGY AND DISCHARGE RATES ARE TO BE APPROVED BY THE LOCAL AUTHORITIES (MANCHESTER CITY COUNCIL / LOCAL FLOOD AUTHORITY AND UNITED UTILITIES) AND THUS SUBJECT TO CHANGE.
10. CONNECTIONS TO EXISTING PUBLIC SEWER IN ACCORDANCE WITH UNITED UTILITIES REQUIREMENTS, TO BE APPROVED / AGREED WITH THE WATER AUTHORITY. FURTHER CCTV INVESTIGATION TO BE CARRIED OUT TO CONFIRM ALL EXISTING LEVELS AND CONDITION AND ASSESS FEASIBILITY OF REUSING EXISTING CONNECTIONS. ALL EXISTING DRAINAGE LEVELS, ESPECIALLY WHERE NEW MANHOLES ON EXISTING RUNS OR NEW CONNECTIONS TO EXISTING MANHOLES ARE PROPOSED, ARE TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE.
11. INFILTRATION: THE IS UNSUITABLE FOR INFILTRATION TECHNIQUES FOR SURFACE WATER MANAGEMENT DUE TO HIGH PERCHED GROUNDWATER, SOIL CONDITION AND PRESENCE OF MADE GROUND. TO BE CONFIRMED FOLLOWING RECEIPT OF TESTING RESULTS.
12. SURFACE WATER RUNOFF TREATMENT SUCH AS OIL SEPARATOR OR HYDRODYNAMIC VORTEX SEPARATOR (DOWNSTREAM DEFENDER) IS NOT DEEMED NECESSARY AT THIS STAGE BUT MAY BE REQUIRED BY THE LOCAL FLOOD AUTHORITY / UNITED UTILITIES.

WIP FOR PRICING PURPOSES ONLY

REVISION	DESCRIPTION	DRAWN	CHECKED	DATE
P01	Notes regarding offsite drainage revised.	LJ	DN	30/04/21
FIRST		NC	LJ	25/03/21

WIP

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PROJECT TITLE: BELLE VUE CO-OP ACADEMY

JOB NO	STATUS
P3001502	COMMERCIAL IN CONFIDENCE

DRAWING TITLE	SCALE
SITE WIDE DRAINAGE STRATEGY GENERAL ARRANGEMENT SHEET 1 OF 3	1:200@ A0
DRAWING NO	DATE
009433-BDP-01-ZZ-DR-C-520001	25/03/21
	REVISION P01