



SURFACE AND FOUL WATER TO COMBINE ON SITE BEFORE OUT FALLING TO UNITED UTILITIES COMBINED SEWER via EXISTING MANHOLE, LEVEL UNKOWN DUE TO LACK OF INFORMATION FROM UU ASSET MAPS. LEVELS TO BE CONFIRMED BY CONTRACTOR ON SITE BEFORE CONSTRUCTION. CONNECTION TO BE AGREED WITH UNITED UTILITIES VIA SECTION 106 APPLICATION.

SW HYDROBRAKE MANHOLE CHAMBER TO DISCHARGE TO A RATE OF 5L/S AS TO BE AGREED WITH UNITED UTILITIES AND LLFA.

AQUACELL OR OTHER APPROVED CELLULAR ATTENUATION TANK TO ATTENUATE SURFACE WATER DISCHARGE UP UNTIL AND INCLUDING 1 IN 100yr + 40% CC PERIOD.

APPROX VOLUME REQUIREMENT = 8.4m³
WIDTH = 3.0m
LENGTH = 3.5m
DEPTH = 0.8m
COVER LEVEL = 46.70 (min)
TOP OF TANK LEVEL = 46.00
INVERT LEVEL = 45.20

ABOVE GROUND FLOOR LEVEL SURFACE AND FOUL DOWN PIPES LIKELY TO BE UNDERSLUNG IN FALSE CEILING AT FIRST FLOOR LEVEL WHERE THEY WILL ROUTE AROUND TO A DOWN PIPE AND DROP DOWN UNDER GROUND FLOOR SLAB. CURRENT LOCATIONS TO BE CONFIRMED BY ARCHITECT.

NOTE:

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 ALL INVERT LEVELS ARE INDICATIVE 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 ABOVE GROUND FLOOR LEVEL FOUL & SURFACE WATER IS ASSUMED TO BE UNDERSLUNG IN FALSE CEILING AT GROUND FLOOR LEVEL AS TO BE DESIGNED BY ARCHITECT.

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

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

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 CATCH PIT
- PROPOSED SW HYDROBRAKE MANHOLE

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 MILLIMETRES 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.

DRAINAGE NOTES

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.

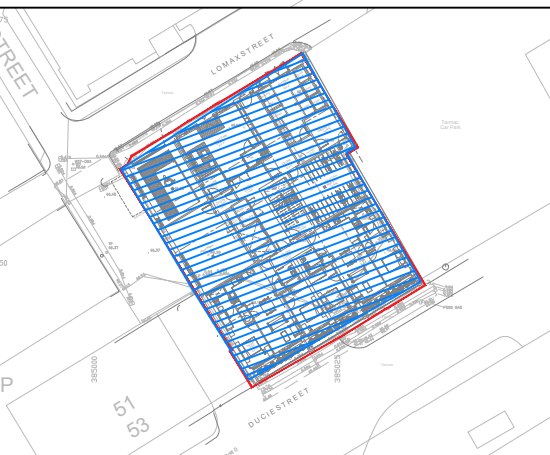
FFL SET TO OR ABOVE EXISTING GROUND LEVEL MITIGATING FLOOD RISK, SITE BOUNDARY DOES NOT PROVIDE ANY OVERLAND FLOWS NOR ARE ANY OFF SITE LEVELS TO BE CHANGED POSING NO RISK TO NEIGHBOURING PROPOERTIES.

P02	GP	Flood Risk/Overland Flow Note Added		13.01.22
P01	GP	First Issue		20.12.21
Rev	By	Description		Date
Revision Schedule				
Client		Private		
Status	S1	Purpose of Issue		Preliminary
Designed By		GP	Drawn By	GP
			Shape Project No.	2255
Sheet No.		C-0001		
Scale (@ A3)	1:200	Date	20.12.2021	Rev
				P02



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PROJECT
Ducie St
Manchester
TITLE
Drainage Strategy



PROPOSED IMPERMEABLE
AREA = 546m²