

TABLE 1: PROPOSED CATCHMENTS MAXIMUM FLOW RATES					
CATCHMENT REF	AREA (Ha)	CALCULATION METHOD	FLOW RATE - 1:1 YEAR STORM EVENT	FLOW RATE - 1:30 YEAR STORM EVENT	FLOW RATE - 1:100 YEAR + 40% CC STORM EVENT
CATCHMENT PC (LOWER GROUND CP)	0.332	50% BROWNFIELD OF THE EXISTING 1-YEAR STORM EVENT AREA EC (25%)	7.0	7.0	7.0
REFER TO DRAWINGS HRD-CUR-XX-00-DR-C-92-621 & 622 FOR DETAILS OF EXISTING AND PROPOSED CATCHMENTS					

INFORMATION PROVIDED BY THE CCTV SURVEY DID NOT PROVIDE CONFIRMATION WHERE SOUTH WATERCOURSE IS LOCATED

FOR EXISTING DRAINAGE REFER TO DRAWING NUMBER: HRD-CUR-XX-00-DR-C-92-510

PROPOSED SERVICES SHOULD BE LOCATED OUTSIDE PROPOSED DRAINAGE

RESIDUAL HAZARD REGISTER		
HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS.		
HAZARD REF No.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	RESIDUAL HAZARD
	DEEP EXCAVATION	DEEP EXCAVATION MORE THEN 3M NEAR EXISTING CULVERT AND BRICK WALL

LEGEND

SITE BOUNDARY

PROPOSED DRAINAGE

PROPOSED SURFACE WATER DRAIN

PRIVATE SURFACE WATER DIVERSION

GATIC CHANNEL C250 (UNLESS NOTED D400)

CATCHPIT

HYDROBRAKE

BACKDROP

ACCESS BOX

OUTLET BOX

UNITED UTILITIES RECORDS UUPS-ORD-76950 ALL UU ASSETS ARE SHOWN INDICATIVELY

UU FOUL WATER SEWER

UU SURFACE WATER

SEWER WATERCOURSE

PRIVATE SURFACE WATER

PRIVATE FOUL

PRIVATE COMBINED

8M EASEMENT BASED ON SEWER FOR ADOPTION 6TH EDITION

OIL INTERCEPTOR

ATTENUATION TANK

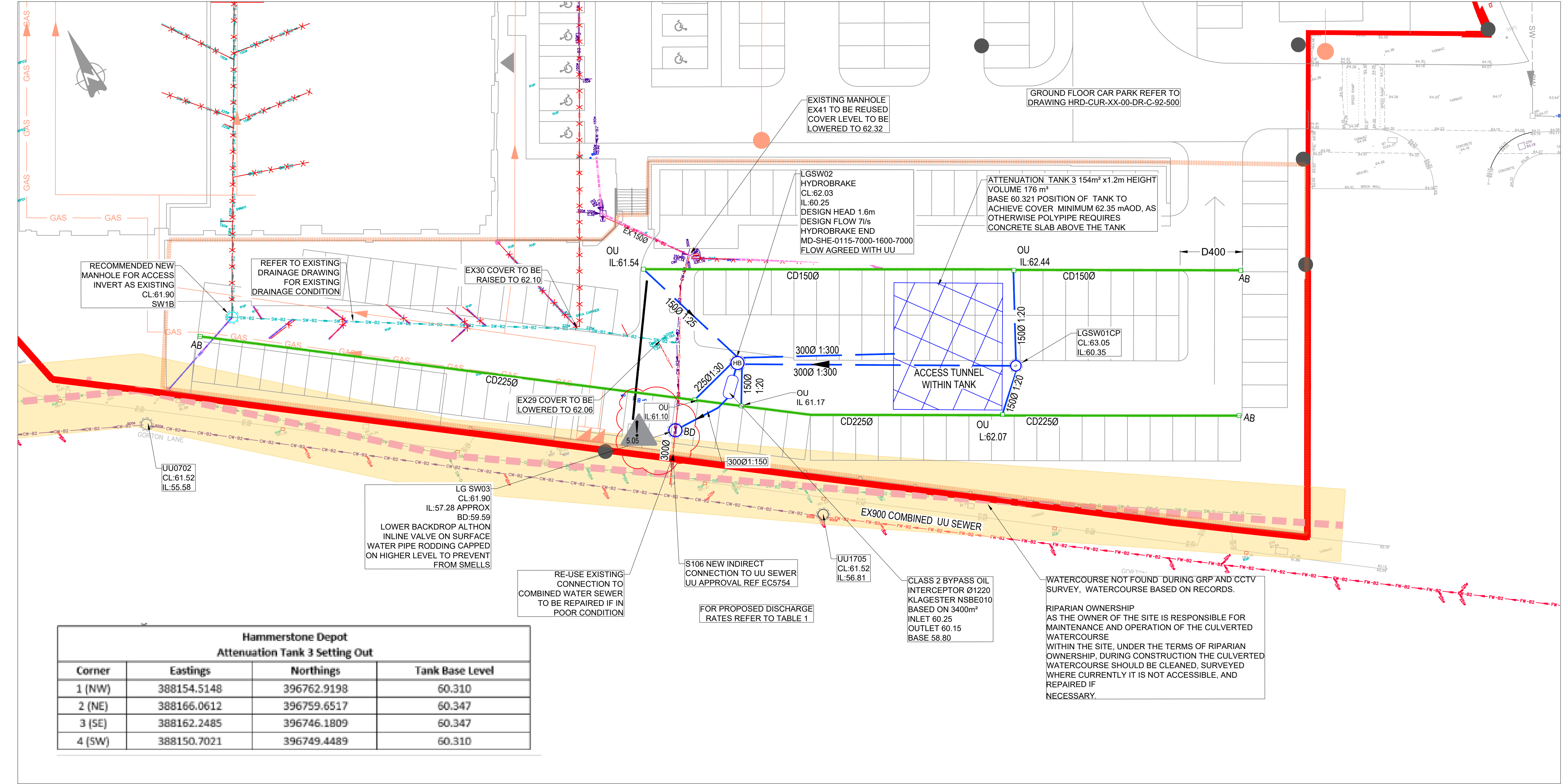
PROPOSED SERVICES

- GENERAL NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN. ALL EXISTING SEWERS, CONNECTIONS, PIPE SIZES AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS TO ENSURE CONNECTIVITY. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
 - DO NOT SCALE THIS DRAWING. ALL DETAILS AND DIMENSIONS ARE TO BE CHECKED BY THE CONTRACTOR. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
 - ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
 - WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THIS DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION. IF NO SURVEY IS AVAILABLE, IT IS ADVISED TO OBTAIN ONE PRIOR TO COMMENCEMENT OF WORKS.
 - ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORK.
 - ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS. THESE ARE TO BE CONFIRMED ONCE A DETAILED CAPACITY CHECK HAS BEEN UNDERTAKEN AT A LATER DESIGN STAGE.
 - OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.
 - FOR FULL DRAINAGE NOTES REFER TO HRD-CUR-XX-ZZ-DR-C-92-502
- DRAWING BASED ON:
TOPOGRAPHICAL SURVEY BY SEP S15724-T
GPR SURVEY BY SEP S17480-U DEC 2018 JUNE 2018
CCTV SURVEY BY SEP DRAINAGE SURVEYS LTD DEC 2018 AND AUG 2020
UU RECORDS UUPS-ORD-76950

PROPOSED SITE PLAN GA
HRD-FRA-00-XX-SK-A-90-9006 REV C02

SIPHONIC DRAINAGE
STORMSAVER 05.07.22
SAPOFLOW SIPHON SYSTEM 29.06.22

Lower Ground Surface Water																	
MH REF	CL (mAOD)	IL (mAOD)	DEPTH TO SOFFIT (m)	DS PIPE DIA (mm)	MH DIA (mm)	MH TYPE	CATCHPIT	COVER SIZE (mm)	COVER CLASS	COVER TYPE	RECESSED	RESTRICTED ACCESS	BACK DROP	Back drop IL (mAOD)	COMMENTS	EASTING	NORTHING
Lower Ground Surface Water																	
LGSW01	63.05	60.35	2.55	150	1200	TYPE B	Y	600X600	D400	SINGLE SEALED	N	N	N	N/A	CATCHPIT MIN SUMP DEPTH 300mm	388165.024	396750.481
LGSW02	62.03	60.25	1.48	300	1500	HYDROBRAKE CHAMBER	N	1200X675	D400			N	N	N/A	REFER TO HYDROBRAKE DETAILS FOR SUMP DEPTH	388135.490	396758.968
LGSW03	61.90	57.28	4.32	300	1500	TYPE A2	N	600X600	C250			N	Y	59.59	MANHOLE TO BE CONSTRUCTED ON EXISTING DRAIN. *INVERT LEVEL INTERPOLATED FROM CCTV SURVEY - TBC ON SITE	388126.901	396753.635
SW1B	61.90	60.30	1.38*	225	1500*	TYPE C*	N	1200X675*	D400			N	N			388083.112	396778.715
EX29	62.06	EXISTING MANHOLE COVER ADJUSTED TO SUIT PROPOSED LEVELS						600X600	C250			N	N	N/A		388127.742	396763.677
EX30	62.10							600X600	C250			N	N	N/A		388119.157	396767.106
EX41	62.32							600X600	C250			N	N	N/A		388133.251	396771.833



C06	LG SW03 AMENDED IN LINE WITH ON SITE INFORMATION	14.07.23	ATL	ATL
C05	LG SW03 MOVED FOLLOWING ADDITIONAL SURVEY	3.07.23	MW	MW
C04	ATTENUATION TANK AMENDED TO SUIT REVISED REQUIREMENTS	27.06.23	ATL	MW
C03	TANK RELOCATED TO ACHIEVE COVER RECOMMENDED BY POLYPIPE	24.10.22	MW	MW
C02	OIL INTERCEPTOR BASED ADDED	19.08.22	MW	MW
C01	CONSTRUCTION ISSUE	22.07.22	ATL	MW
P08	DRAINAGE NOTE ADDED	25.04.22	ATL	MW
P07	MAIN BUILDING DRAINAGE AMENDED	25.03.22	ATL	MW
P06	STAGE 4 UPDATED	05/08/21	MW	MW
P05	ISSUED FOR STAGE 4	09/04/21	MW	MW
P04	UPDATED TO COMMENTS FOR COSTING	23/03/21	MW	MW
P03	ISSUED FO STAGE 3- UPDATED SITE PLAN	02/12/20	MW	MW
P02	ISSUED FOR STAGE 3	18/11/20	MW	MW
P01	ISSUED FOR STAGE 3	29.01.19	MW	CG
Rev:	Description:	Date:	By:	Chkd:

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

Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer
Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kentish • Leeds • Liverpool • London • Manchester • Nottingham

Status:

Project:

Dig Title:

PROPOSED LOWER FLOOR DRAINAGE

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
068065	A1	29.01.19	MW	MW	CG

Scale: 1:250

Project Code:	Originator:	Zone:	Level:	Type:	Discipline:	Category / Number:	Rev:
HRD	- CUR	- XX	- 00	- DR	- C	- 92-501	-C06