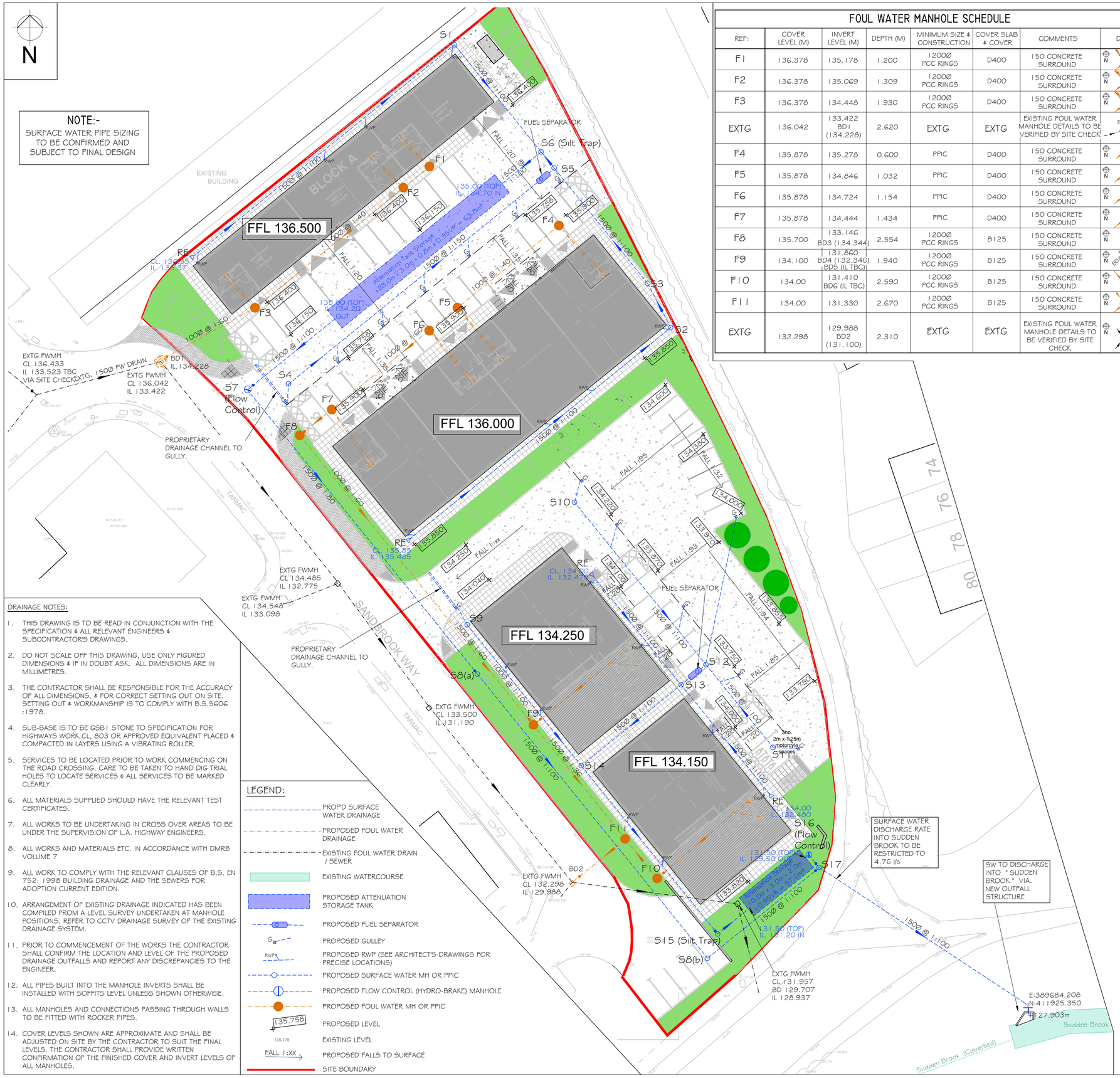

FOUL WATER MANHOLE SCHEDULE

REF:	COVER LEVEL (M)	INVERT LEVEL (M)	DEPTH (M)	MINIMUM SIZE & CONSTRUCTION	COVER SLAB & COVER	COMMENTS	DIAG.
F1	136.378	135.178	1.200	1200Ø PCC RINGS	D400	150 CONCRETE SURROUND	
F2	136.378	135.069	1.309	1200Ø PCC RINGS	D400	150 CONCRETE SURROUND	
F3	136.378	134.448	1.930	1200Ø PCC RINGS	D400	150 CONCRETE SURROUND	
EXTG	136.042	133.422 BD1 (134.228)	2.620	EXTG	EXTG	EXISTING FOUL WATER MANHOLE DETAILS TO BE VERIFIED BY SITE CHECK	BD1
F4	135.878	135.278	0.600	PPIC	D400	150 CONCRETE SURROUND	
F5	135.878	134.846	1.032	PPIC	D400	150 CONCRETE SURROUND	
F6	135.878	134.724	1.154	PPIC	D400	150 CONCRETE SURROUND	
F7	135.878	134.444	1.434	PPIC	D400	150 CONCRETE SURROUND	
F8	135.700	133.146 BD3 (134.344)	2.554	1200Ø PCC RINGS	B125	150 CONCRETE SURROUND	BD3
F9	134.100	131.860 BD4 (132.340) BD5 (IL TBC)	1.940	1200Ø PCC RINGS	B125	150 CONCRETE SURROUND	BD4 BD5
F10	134.00	131.410 BD6 (IL TBC)	2.590	1200Ø PCC RINGS	B125	150 CONCRETE SURROUND	BD6
F11	134.00	131.330	2.670	1200Ø PCC RINGS	B125	150 CONCRETE SURROUND	
EXTG	132.298	129.988 BD2 (131.100)	2.310	EXTG	EXTG	EXISTING FOUL WATER MANHOLE DETAILS TO BE VERIFIED BY SITE CHECK	BD2

SURFACE WATER MANHOLE SCHEDULE

REF:	COVER LEVEL (M)	INVERT LEVEL (M)	DEPTH (M)	MINIMUM SIZE & CONSTRUCTION	COVER SLAB & COVER	COMMENTS	DIAG.
S1	136.35	134.94	1.41	PPIC	B125	150 CONCRETE SURROUND	
S2	135.85	135.05	0.80	PPIC	B125	150 CONCRETE SURROUND	
S3	135.85	134.98	0.87	PPIC	B125	150 CONCRETE SURROUND	
S4	135.88	135.090	0.79	PPIC	D400	150 CONCRETE SURROUND	
S5	135.88	134.79	1.09	PPIC	D400	150 CONCRETE SURROUND	
S6	136.03	134.76 134.46 (SUMP)	1.57	PCC OR BRICK	D400	SILT TRAP 150 CONC. SURROUND	
S7	135.80	132.854 134.054 BD1	2.946	1800Ø PCC RINGS	D400	FLOW CONTROL MH (HYDRO-BRAKE) 150 CONCRETE SURROUND	BD1
S8(a)	133.80	130.902 132.380 BD2	2.898	1800Ø PCC RINGS	B125	150 CONCRETE SURROUND	BD2
S8(b)	131.80	130.426	1.374	PPIC	D400	150 CONCRETE SURROUND	
S9	134.100	132.366	1.734	PPIC	B125	150 CONCRETE SURROUND	
S10	133.985	132.609	1.376	PPIC	D400	150 CONCRETE SURROUND	
S11	133.87	132.478	1.392	PPIC	D400	150 CONCRETE SURROUND	
S12	133.875	132.339	1.536	PPIC	D400	150 CONCRETE SURROUND	
S13	134.00	132.298	1.702	1500Ø PCC RINGS	D400	150 CONCRETE SURROUND	
S14	134.00	132.131	1.869	1200Ø RINGS	B125	150 CONCRETE SURROUND	
S15	132.50	131.253 BD3 131.85	1.247	PCC OR BRICK	B125	SILT TRAP 150 CONC. SURROUND	BD3
S16	132.50	129.49	3.01	1500Ø PCC RINGS	B125	FLOW CONTROL MH (HYDRO-BRAKE) 150 CONCRETE SURROUND	
S17	131.70	128.240 BD4 129.470 BD5 130.240	3.46	1800Ø PCC RINGS	B125	150 CONCRETE SURROUND	BD4 BD5

DRAINAGE NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL RELEVANT ENGINEERS & SUBCONTRACTORS DRAWINGS.
2. DO NOT SCALE OFF THIS DRAWING, USE ONLY FIGURED DIMENSIONS & IF IN DOUBT ASK. ALL DIMENSIONS ARE IN MILLIMETRES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS, & FOR CORRECT SETTING OUT ON SITE. SETTING OUT & WORKMANSHIP IS TO COMPLY WITH B.S.5606 :1978.
4. SUB-BASE IS TO BE GSB1 STONE TO SPECIFICATION FOR HIGHWAYS WORK CL, 803 OR APPROVED EQUIVALENT PLACED & COMPACTED IN LAYERS USING A VIBRATING ROLLER.
5. SERVICES TO BE LOCATED PRIOR TO WORK COMMENCING ON THE ROAD CROSSING. CARE TO BE TAKEN TO HAND DIG TRIAL HOLES TO LOCATE SERVICES & ALL SERVICES TO BE MARKED CLEARLY.
6. ALL MATERIALS SUPPLIED SHOULD HAVE THE RELEVANT TEST CERTIFICATES.
7. ALL WORKS TO BE UNDERTAKING IN CROSS OVER AREAS TO BE UNDER THE SUPERVISION OF L.A. HIGHWAY ENGINEERS.
8. ALL WORKS AND MATERIALS ETC. IN ACCORDANCE WITH DMRB VOLUME 7
9. ALL WORK TO COMPLY WITH THE RELEVANT CLAUSES OF B.S. EN 752: 1998 BUILDING DRAINAGE AND THE SEWERS FOR ADOPTION CURRENT EDITION.
10. ARRANGEMENT OF EXISTING DRAINAGE INDICATED HAS BEEN COMPILED FROM A LEVEL SURVEY UNDERTAKEN AT MANHOLE POSITIONS. REFER TO CCTV DRAINAGE SURVEY OF THE EXISTING DRAINAGE SYSTEM.
11. PRIOR TO COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL CONFIRM THE LOCATION AND LEVEL OF THE PROPOSED DRAINAGE OUTFALLS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
12. ALL PIPES BUILT INTO THE MANHOLE INVERTS SHALL BE INSTALLED WITH SOFFITS LEVEL UNLESS SHOWN OTHERWISE.
13. ALL MANHOLES AND CONNECTIONS PASSING THROUGH WALLS TO BE FITTED WITH ROCKER PIPES.
14. COVER LEVELS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE BY THE CONTRACTOR TO SUIT THE FINAL LEVELS. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF THE FINISHED COVER AND INVERT LEVELS OF ALL MANHOLES.

LEGEND:

- PROP'D SURFACE WATER DRAINAGE
- PROPOSED FOUL WATER DRAINAGE
- EXISTING FOUL WATER DRAIN / SEWER
- EXISTING WATERCOURSE
- PROPOSED ATTENUATION STORAGE TANK
- PROPOSED FUEL SEPARATOR
- PROPOSED GULLEY
- PROPOSED RWP (SEE ARCHITECT'S DRAWINGS FOR PRECISE LOCATIONS)
- PROPOSED SURFACE WATER MH OR PPIC
- PROPOSED FLOW CONTROL (HYDRO-BRAKE) MANHOLE
- PROPOSED FOUL WATER MH OR PPIC
- 135.758 PROPOSED LEVEL
- 135.178 EXISTING LEVEL
- FALL 1:XX PROPOSED FALLS TO SURFACE
- SITE BOUNDARY

DRAINAGE NOTES CONTINUED.....

15. THE CONTRACTOR SHALL CONTROL ACCURATE LINE AND LEVEL OF PIPE LAYING BY USE OF AN OPTICAL LASER.
16. THE CONTRACTOR SHALL PROTECT THE PIPELINE FROM TEMPORARY CONSTRUCTION LOADS WHICH MAY BE IN EXCESS OF THE SERVICE LOADS.
17. PIPEWORK AND PIPE BEDDING SHALL COMPLY WITH THE DETAILS INDICATED ON THE DRAWINGS UNLESS OTHERWISE STATED:
18. PIPEWORK WITH LESS THAN 600mm COVER FROM FINISHED LEVEL, IN AREAS OF VEHICULAR LOADING, SHALL BE PROTECTED WITH A 150mm C20 CONCRETE SURROUND. FLEXIBLE JOINTS SHALL BE MAINTAINED AT EACH PIPE JOINT BY THE USE OF COMPRESSIVE SHEET CUT TO FIT THE PIPE PROFILE.
19. TRENCHES IN AREAS RECEIVING VEHICULAR LOADING SHALL BE BACKFILLED WITH 6F2 GRANULAR FILL.
20. TRENCHES WITHIN 1m OF LOAD BEARING WALLS SHOULD BE FILLED WITH CONCRETE AT LEAST TO THE LEVEL OF THE UNDERSIDE OF THE FOUNDATION. WHERE THE DISTANCE IS MORE THAN 1m FROM THE WALL, THE CONCRETE FILL SHOULD BE TO A LEVEL BELOW THE UNDERSIDE OF THE FOUNDATION EQUAL TO THE DISTANCE FROM THE WALL TO THE NEARSIDE OF THE TRENCH LESS 150mm.
21. SOFT SPOTS IN THE TRENCH FORMATION SHALL BE REMOVED AND REPLACED WITH 6F2 IN LAYERS & COMPACTED IN LAYERS OF 150mm MAX.
22. UNLESS NOTED OTHERWISE MANHOLE COVERS, CHANNEL GRATINGS AND ROAD GRATINGS SHALL BE DUCTILE IRON TO BSEN 124 BLACK COATED AS FOLLOWS: -
    HIGHWAYS CLASS D400
    CAR PARKS CLASS C250
    LANDSCAPED AREAS CLASS B125 OR A15
23. MANHOLE COVERS SHALL HAVE A BADGE TO INDICATE FOUL OR STORM WATER.
24. THE CONTRACTOR SHALL REGULATE EXISTING COVERS AND FRAMES TO THE PROPOSED LEVELS INDICATED.
25. TWO SETS OF MANHOLE LIFTING KEYS SHALL BE HANDED OVER TO THE CLIENT ON COMPLETION OF THE WORKS.
26. LATERAL CONNECTIONS IN BETWEEN MANHOLE RUNS SHALL BE FORMED BY USING PURPOSE MADE JUNCTION FITTINGS. BEND FITTINGS SHALL BE PROVIDED WHERE APPROPRIATE TO DIRECT THE FLOW INTO MAIN RUNS.

REV.	DESCRIPTION	DRAWN	APPROVED	DATE
B	BELMOUTH INDICATED TO ENTRANCE TO LOWER SITE, AS PER, UPDATED ARCHITECT'S PLAN	GS	GS	11.24
A	SOAK-A-WAY OPTION OMITED AND ATTENUATION INTRODUCED WITH DISCHARGE INTO WATERCOURSE; MH SCHEDULES REVISED; SITE LAYOUT TO SOUTH SIDE AMENDED AND GENERAL UPDATE TO LEGEND	GS	GS	10.24

STATUS

PLANNING

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client
NORTHERN TRUST CO. LTD.

project
SANDBROOK PARK, ROCHDALE
PHASE 2

title
INDICATIVE DRAINAGE LAYOUT

drawn SNG	checked GS	drawing number	
date 15.01.24	date	2023-110-C001	B
scale 1:250 @ A0	A1		