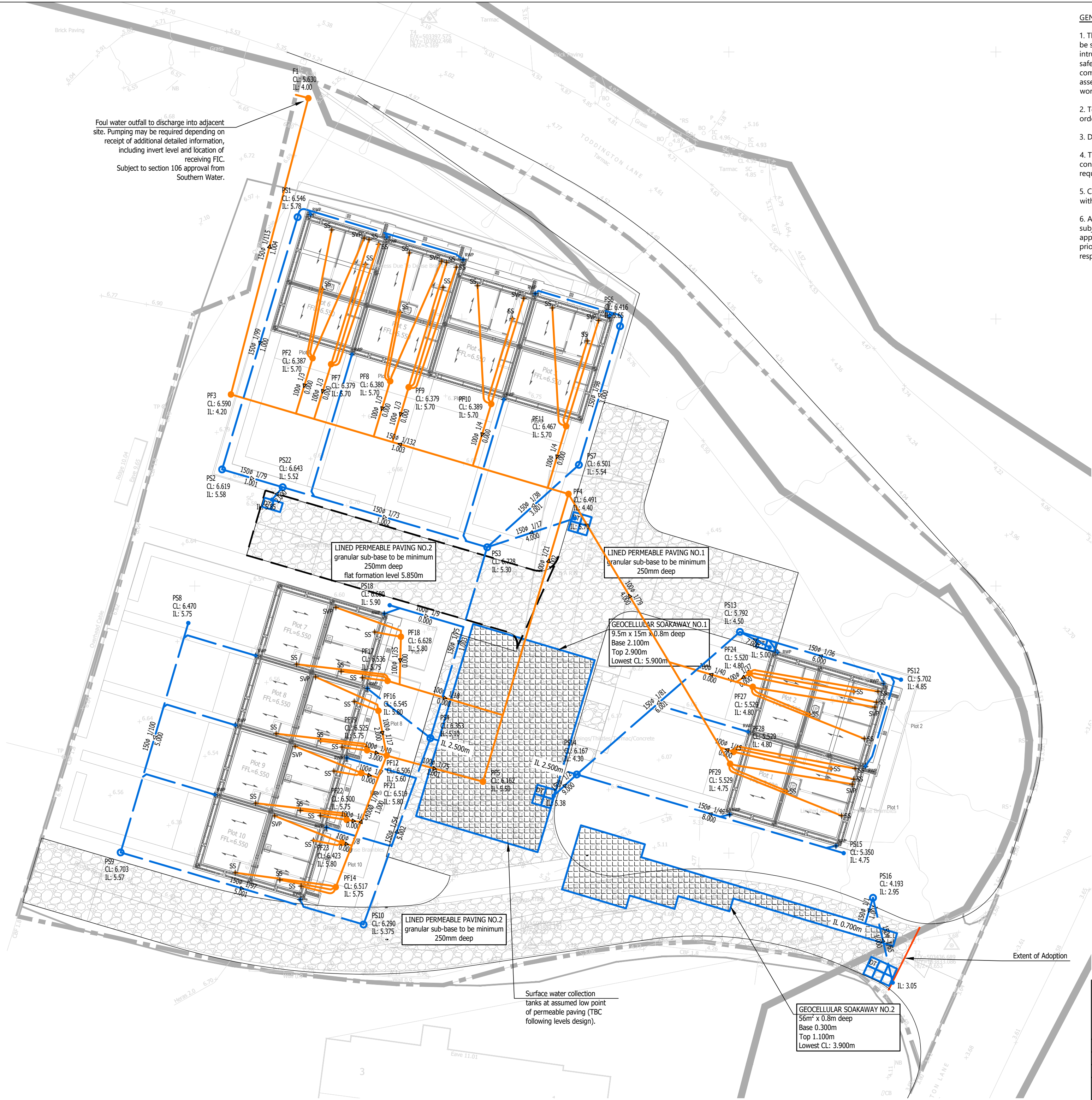


PHASE: 0 (PRIVATE)

MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
PS1	450ø	Type E	B125	6.546	5.780	0.616	503387.699	103887.629
PS2	450ø	Type E	B125	6.619	5.580	0.889	503382.046	103868.735
PS3	450ø	Type E	B125	6.728	5.300	1.278	503401.900	103862.904
PS4	450ø	Type E	D400	6.353	5.100	1.103	503397.649	103848.612
PS6	450ø	Type E	B125	6.416	5.650	0.616	503411.852	103879.461
PS7	450ø	Type E	B125	6.501	5.540	0.811	503408.769	103869.078
PS8	180ø	Type E		6.470	5.750	0.570	503379.514	103857.231
PS9	450ø	Type E		6.703	5.570	0.983	503374.445	103840.050
PS10	450ø	Type E	D400	6.290	5.375	0.765	503392.639	103834.651
PS12	180ø	Type E	B125	5.702	4.850	0.702	503432.896	103852.987
PS13	450ø	Type E	D400	5.792	4.500	1.142	503420.831	103856.564
PS14	450ø	Type E		6.167	4.300	1.717	503408.610	103845.886
PS15	180ø	Type E		5.350	4.750	0.450	503428.603	103839.996
PS16	450ø	Type E		4.193	2.950	1.093	503430.799	103836.652
PS18	180ø	Type E	B125	6.680	5.900	0.680	503394.600	103858.564
PS19	180ø	Type E	D400	6.038	5.380	0.508	503406.879	103844.287
PS20	180ø	Type E	D400	3.727	3.050	0.527	503432.271	103830.296
PS21	180ø	Type E	D400	6.357	5.700	0.507	503408.472	103865.071
PS22	450ø	Type E	B125	6.643	5.520	0.973	503386.583	103867.403
PS23	180ø	Type E	D400	6.502	5.850	0.502	503385.790	103866.469
PS24	180ø	Type E	D400	5.662	5.000	0.512	503423.057	103855.413
F1	450ø	Type E		5.630	4.000	1.480	503388.506	103896.534
PF2	450ø	Type E		6.387	5.700	0.587	503388.824	103877.069
PF3	450ø	Unknown		6.590	4.200	2.240	503382.709	103874.350
PF4	450ø	Type E	B125	6.491	4.400	1.941	503407.992	103866.893
PF5	450ø	Type E	D400	6.162	5.500	0.562	503401.582	103845.344
PF7	450ø	Type E	B125	6.379	5.700	0.579	503390.211	103876.616
PF8	450ø	Type E		6.380	5.700	0.580	503394.635	103875.344
PF9	450ø	Type E	B125	6.379	5.700	0.579	503396.022	103874.891
PF10	450ø	Type E		6.389	5.700	0.589	503402.204	103873.638
PF11	450ø	Type E		6.467	5.700	0.667	503407.812	103871.974
PF12	450ø	Type E		6.506	5.600	0.806	503394.374	103847.301
PF14	450ø	Type E		6.517	5.750	0.667	503390.562	103837.453
PF16	450ø	Type E		6.545	5.800	0.645	503393.755	103850.657
PF17	450ø	Type E		6.536	5.750	0.686	503394.442	103852.897
PF18	450ø	Type E		6.628	5.800	0.728	503395.439	103856.202
PF19	450ø	Type E		6.525	5.750	0.675	503392.911	103847.693
PF21	450ø	Type E		6.519	5.800	0.619	503392.477	103845.999
PF22	450ø	Type E		6.500	5.750	0.650	503391.381	103842.489
PF23	450ø	Type E		6.423	5.800	0.523	503391.018	103840.774
PF24	450ø	Type E	B125	5.520	4.800	0.620	503421.557	103853.464
PF27	450ø	Type E		5.529	4.800	0.629	503421.791	103852.453
PF28	450ø	Type E	B125	5.529	4.800	0.629	503420.362	103847.584
PF29	450ø	Type E		5.529	4.750	0.679	503420.094	103846.686



GENERAL NOTES

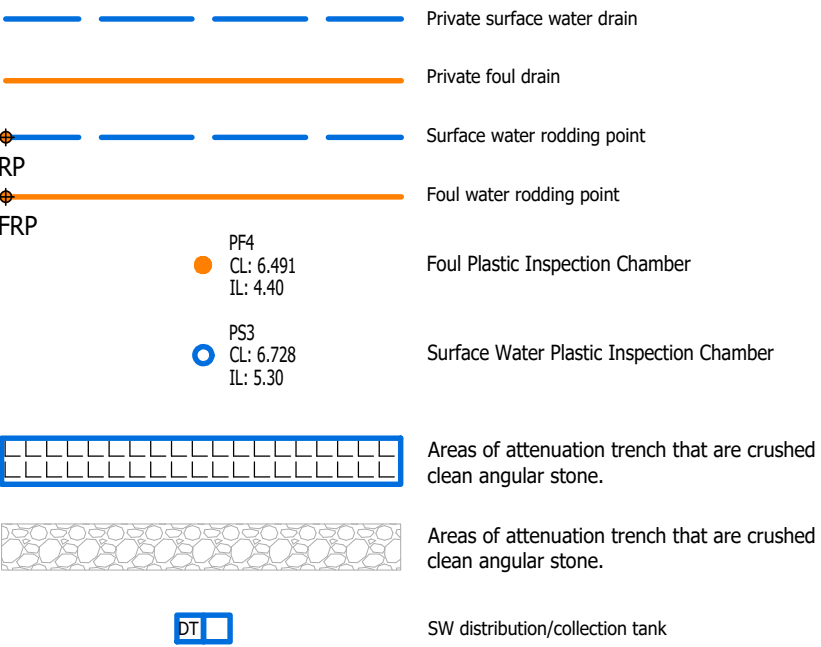
1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations , record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. any discrepancies shall be notified to gta prior to works commencing.
2. Tender or billing drawings shall not be used for construction or the ordering of materials.
3. Do not scale. All dimensions and levels to be site confirmed.
4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
5. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

SPECIFICATION NOTES

1. ALL DRAINAGE SHALL BE CONSTRUCTED AND COMMISSIONED IN ACCORDANCE WITH BS EN 295 & BS EN752, BUILDING REGULATIONS DOC. H AND ANY PARTICULAR REQUIREMENTS OF THE BUILDING CONTROL OFFICER.
2. DRAIN BEDDING IS TO BE PROVIDED AS D200.1 and D200.2 AS SHOWN ON THE DRAINAGE DETAILS SHEETS.
3. 'EFFECTIVE COVER' IS THE MINIMUM DEPTH OF COVER OVER THE PIPE CROWN AT ANY TIME DURING THE CONSTRUCTION PROCESS.
4. ALL CONCRETE PIPEWORK, MANHOLES AND FITTINGS SHALL BE TO BS 5911 (ALL RELEVANT PARTS). ALL CONCRETE PIPEWORK TO BE TO HIGH STRENGTH
5. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES/SEWERS, INVERT LEVELS, PIPE SIZES & ORIENTATION SHALL BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.
6. WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE ST4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINTS.
7. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORK AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO OVERSITE FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.
8. ALL PRIVATE DRAINAGE PIPEWORK SHALL BE PVCu. ALL ADOPTED DRAINAGE TO BE VC. ALL UNDERBUILDING DRAINS TO BE LAID AT A GRADIENT OF 1:40
9. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 600mm TO FORM A ROCKER PIPE.

10. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, LINTELS ARE TO BE PROVIDED.
11. WHERE PIPELINES PASS WITHIN 1m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH
12. 450mm DIA. INSPECTION CHAMBERS (FIC/SIC) MAY BE USED:
 - WITH 350mm REDUCED OPENING WHERE THE DEPTH FROM COVER TO INVERT EXCEEDS 1000mm.
- 300mm DIA. POLYPROPYLENE ACCESS CHAMBERS (FAC/SAC) MAY BE USED
 - WHERE THE DEPTH FROM COVER TO INVERT DOES NOT EXCEED 600mm AND WHERE THE PIPE SIZE DOES NOT EXCEED 100mm DIA.
13. STEEL COVERS WITHIN PROPERTY BOUNDARIES SHALL BE:
 - (UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)
 - ON PRIVATE DRIVEWAYS: FACTA GRADE B (BS EN ISO 1461: 1999)
 - ON PRIVATE PATHWAYS, VERGES OR ON GARDENS: FACTA GRADE A (BS EN ISO 1461: 1999)
- DUCTILE IRON COVERS OUTSIDE PROPERTY BOUNDARIES SHALL BE:
 - (UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE)
 - ON ACCESS ROADS AND CAR PARKS: GRADE D400 (BS EN 124:1994)
 - ON SHARED PATHWAYS, VERGES: GRADE A15 (BS EN 124:1994)
14. COVER LEVELS SHOWN 'CL' AND INVERT LEVELS SHOWN 'IL' ARE IN METRES ABOVE ORDNANCE DATUM.
15. ALL DRAINS TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE
16. ALL DRAINS MARKED 'FWS' OR 'SWS' ARE PROPOSED ADOPTED SEWERS AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERS FOR ADOPTION, 7TH EDITION'

KEY



DESIGN NOTES

1. STORAGE DESIGN BASED ON 1 IN 100 YR STORM + 45%.
2. DRAIN POINTS AND LOCATIONS CURRENTLY INDICATIVE ONLY.
3. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
4. EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.
5. APPROVAL TO BE GAINED FROM SOUTHERN WATER FOR CONNECTIONS TO SEWERS AND DISCHARGE RATES.
6. ALL GRANULAR SUB-BASE TO USE INFILTRATION RATE 5.98x10⁻⁶m/s TAKEN FROM AVIRON SOIL INFILTRATION TESTING REPORT, SEPT' 2025.
7. ALL SOAKAWAYS POSITIONED 5m FROM BUILDING EDGES, AND 2.5m FROM SITE BOUNDARY.