

SURFACE WATER NETWORK								
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)	MANHOLE COVERS TYPE
S1	1350	Type C	44.519	43.390	0.904	474520.504	169372.356	D400
S2	1350	Type C	44.798	43.289	1.284	474517.186	169355.871	E600
S3	1350	Type C	44.778	42.979	1.424	474490.737	169351.863	E600
S4	1350	Type C	44.069	42.440	1.254	474455.258	169340.542	E600
S5	1350	Type C	44.183	42.400	1.408	474456.283	169337.134	D400
S7	1200 x 900	Type D	44.246	42.825	1.196	474452.548	169349.558	D400
S9 (Control)	1350	Type C	43.800	42.114	1.461	474494.844	169322.429	D400
S10	1350	Type C	43.500	41.910	1.365	474517.046	169308.586	D400
S11	1350	Type C	42.815	41.540	1.050	474534.288	169273.303	D400
S12	1350	Type C	42.420	41.352	0.843	474561.603	169284.269	D400
S13	1350	Type C	42.093	41.120	0.748	474583.517	169252.312	D400
S15	1500	Type C	45.005	43.150	1.255	474230.238	169201.447	E600
S16	1500	Type B	45.550	43.057	1.893	474262.537	169264.255	E600
S17	1500	Type B	45.526	42.980	1.946	474288.073	169287.807	E600
S18	1350	Type B	45.500	42.970	2.080	474296.371	169282.628	D400
S19 (Control)	1500	Type C	44.394	42.900	1.269	474323.847	169290.214	D400
S22	1200 x 900	Type D	45.221	43.450	1.546	474345.163	169328.217	D400
S23	1200	Type B	45.221	43.300	1.696	474329.721	169319.568	D400
S24	1200 x 900	Type D	45.200	43.770	1.430	474352.012	169319.380	D400
S25	1200 x 900	Type D	44.823	43.480	1.193	474386.247	169329.626	D400
S26	1200 x 900	Type D	44.750	43.430	1.170	474390.742	169331.052	D400
S27	1200 x 900	Type D	44.746	43.690	1.056	474389.792	169316.898	D400
S28	1200 x 900	Type D	44.800	43.650	1.150	474394.542	169318.034	D400
S29	1200 x 900	Type D	44.335	43.350	0.985	474428.603	169328.606	D400
S30	1200 x 900	Type D	44.300	43.200	1.100	474440.214	169332.256	D400
S31	1350	Type C	41.919	40.119	1.425	474689.305	169130.997	D400
S32	1200	Type B	41.969	40.069	1.525	474681.349	169125.560	D400
S34 (Control)	1350	Type C	41.500	40.000	1.275	474709.840	169054.804	D400
S36	1200 x 900	Type D	43.600	41.880	1.420	474581.044	169374.671	D400
S36a	1200 x 900	Type D	43.085	42.430	0.655	474624.310	169376.223	D400
S37	1200 x 900	Type D	45.082	44.400	0.682	474324.945	169299.554	D400
S38	1200 x 900	Type D	43.457	41.855	1.302	474584.550	169384.517	D400
S38a	1200 x 900	Type D	44.065	42.580	1.335	474543.570	169387.325	D400
S39	1350	Type C	43.183	41.463	1.420	474653.551	169394.427	D400
S40	1200	Type B	43.364	41.400	1.664	474656.688	169385.722	D400
S41 (Control)	1350	Type C	42.300	40.720	1.275	474684.271	169383.503	D400
S42	1200 x 900	Type D	45.500	43.850	1.500	474333.387	169380.572	D400
S43	1200 x 900	Type D	44.740	43.050	1.540	474487.020	169346.084	D400
S44	1200 x 900	Type D	44.604	43.450	1.004	474521.585	169348.394	D400
S45	1200 x 900	Type D	45.025	43.950	1.075	474493.031	169366.243	D400
S46	1200 x 900	Type D	44.115	42.850	1.265	474541.625	169359.892	D400
S48	1350	Type B	45.720	42.970	2.300	474274.571	169266.333	D400

FOUL SEWER NETWORK								
MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)	MANHOLE COVER TYPE
F1	1200	Type A	45.859	42.167	3.467	474269.296	169287.223	D400
F2	1200	Type A	45.623	42.117	3.281	474273.213	169279.619	E600
F3	1200	Type A	45.315	41.865	3.225	474308.346	169302.876	E600
F4	1200	Type A	44.789	40.884	3.680	474371.328	169321.597	E600
F5	1200	Type A	44.260	39.905	4.130	474433.680	169340.117	E600
F6	1200	Type A	44.501	39.255	5.022	474475.828	169353.267	E600
F7	1500	Type A	44.341	38.300	5.516	474523.824	169369.651	D400
F8	1500	Type A	43.813	38.247	5.041	474547.611	169381.123	E600
F9	1500	Type A	43.042	38.058	4.459	4746642.100	169383.957	E600
F9A	1200	Type A	42.979	38.260	4.719	474631.625	169371.574	E600
F10	1500	Type A	42.675	38.004	4.146	474665.268	169394.392	D400
F11	1500	Type A	42.443	37.931	3.988	474697.133	169412.673	D400
F12	1200	Type A	44.159	40.099	3.910	474437.941	169322.781	D400
F13	1350	Type C	41.423	40.240	0.808	474611.393	169182.939	D400
F14	1350	Type B	42.275	38.900	3.000	474636.581	169200.691	D400
F15	1350	Type A	42.552	38.774	3.403	474604.070	169246.881	D400
F16	1350	Type A	42.903	38.604	3.924	474557.804	169307.940	D400
F17	1350	Type A	43.542	38.536	4.631	474541.143	169333.741	D400
F19	1200	Type A	44.394	38.975	5.194	474513.104	169391.877	D400
F21	1200	Type B	41.952	39.517	2.285	474667.890	169153.441	D400
F22	1500	Type A	42.377	37.833	4.018	474735.500	169442.403	D400
F23	1500	Type A	42.192	37.781	3.886	474759.188	169454.212	D400
F24	1500	Type A	41.845	37.720	3.600	474788.326	169461.532	D400
F25	1500	Type A	41.590	37.669	3.396	474814.027	169462.220	D400
F26	1500	Type A	41.361	37.617	3.219	474839.336	169456.359	D400
F27	1500	Type A	41.158	37.559	3.074	474865.450	169444.386	D400
F28	1500	Type A	41.065	37.503	3.037	474887.290	169426.258	D400
F29	1500	Type A	40.996	37.451	3.020	474902.445	169405.526	D400
F30	1500	Type A	41.482	37.388	3.569	474919.135	169378.713	D400
F31	1500	Type B Special	40.738	37.322	2.891	474943.985	169356.873	D400
F32	1500	Type B Special	40.569	37.242	2.803	474981.008	169341.391	D400
F33	1500	Type B Special	40.561	37.178	2.859	475012.761	169337.769	D400
F34	1500	Type B Special	40.582	37.118	2.939	475042.283	169341.692	D400
F35	1500	Type A	40.606	37.033	3.048	475081.332	169358.541	D400
F36	1500	Type A	40.585	36.962	3.098	475113.428	169373.625	D400
F37	1500	Type A	40.844	36.869	3.450	475137.447	169413.538	D400
F38	1500	Type A	40.975	36.771	3.678	475162.585	169455.312	D400
F39	1500	Type A	40.979	36.734	3.720	475164.852	169474.012	D400
F40	1500	Type A	41.316	36.680	4.111	475173.165	169499.693	D400
F41	1500	Type A	41.154	36.646	3.983	475157.253	169504.844	D400
F42 (Inlet)	1500	Type A	41.063	36.625	3.913	475158.095	169515.549	D400

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GENERAL NOTES:

- Do not scale.
- Refer to all other Project Drawings.
- All adoptable drainage works to be constructed as detailed in the Code For Adoptions Sector Guidance in relation to the adoption of sewerage assets by sewerage companies in England published by Water UK or as stipulated in Thames Water's local practise document accompanying this guidance'.
- All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
- Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
- The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
- All drainage ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below;
 - Carriageways and Roads - E600/D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
 - Gardens/Landscaping - A15
- All sewer pipes, up to, and including 300mm are to be vitrified clay to BS EN295. All sewer pipes 375mm diameter and above to concrete pipes to BS EN1916.
- All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
- All bedding shall be Class S unless noted otherwise.
- All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
- Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
- Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
- All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
- The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
- Construction details subject to refinement through detailed design/technical approval process.
- All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
- All sewers to be abandoned, must be surveyed to identify any lateral connections that are still live with any found to be reported to the Engineer.
- All existing drainage invert levels to be confirmed prior to commencement of work.

Manhole cover levels are derived from a 3D digital terrain model, final cover levels to suit finished surfaces onsite.

Manhole covers to be located wholly within one surface i.e grass or hard standing/road. Manhole covers are to be fully accessible to users.

P5	08/24	Manholes S20, S21, S35, S37a, S37b, S50, F18 & F20 removed. Manhole details added & updated to suit latest design.	AS	SM
P4	07/24	Manhole details updated following design update	LC	SM
P3	06/24	Missing manhole details added and minor amendments following further design team review	SM	LA
P2	05/24	Amended following design team review	LC	SM
P1	04/24	FIRST ISSUE	AS	SM
Rev	Date	Description	Drawn	Checked



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Client

UNIVERSITY OF READING

Project
THAMES VALLEY
SCIENCE PARK
PRIMARY INFRASTRUCTURE

Title
NHM ACCESS ROAD
MANHOLE SCHEDULES
SHEET 1

Status

Scale	NTS	Date	APRIL 2024	Drawn	AS	Checked	SM
Drawing No	HD065-506						Revision P5