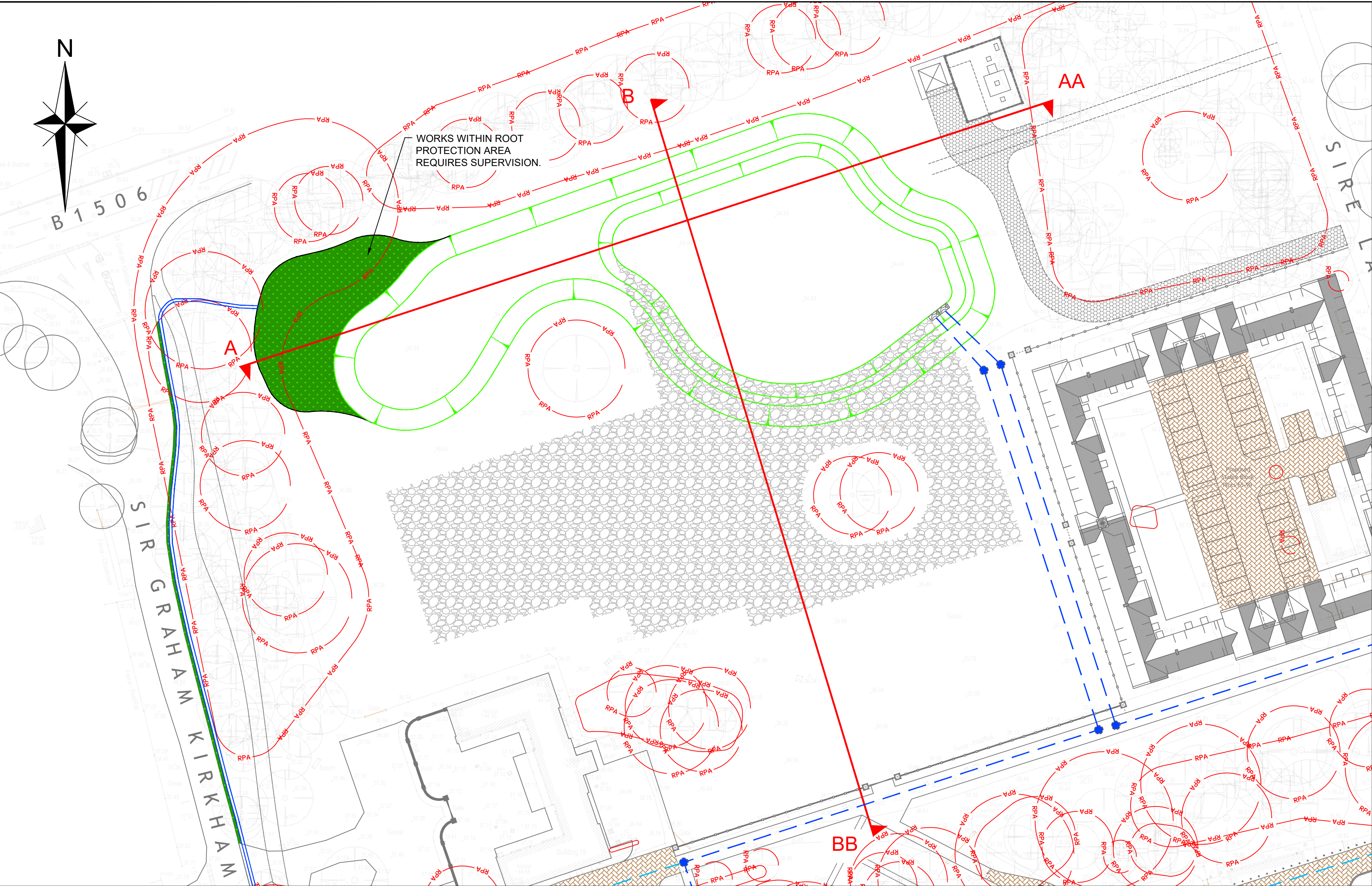




INFILTRATION BASIN

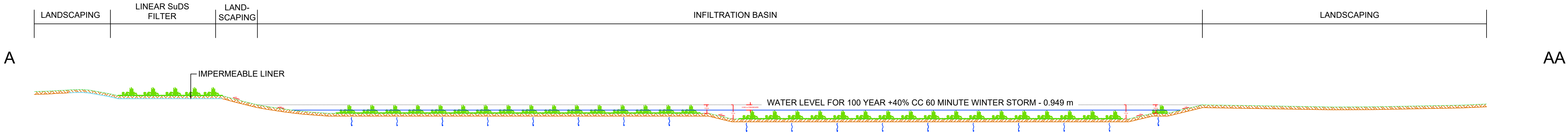
Side slopes - 1 in 4
Total depth of feature - 1.5 m
Number of stages - 2
Depth of stages - 0.9 m and 1.5 m
Transition between stages - 1.5 m wide flat "shelf"
Long term water presence - none proposed
Surveillance - gateway feature, also overlooked by housing
Inlets - Gabion protection
Outlet - infiltration
Entry prevention strategy required - no, side slopes and depths of water in accordance with C753

Optional items:
Knee rail (to help identify the location)
Information board (explaining the function of the basin)

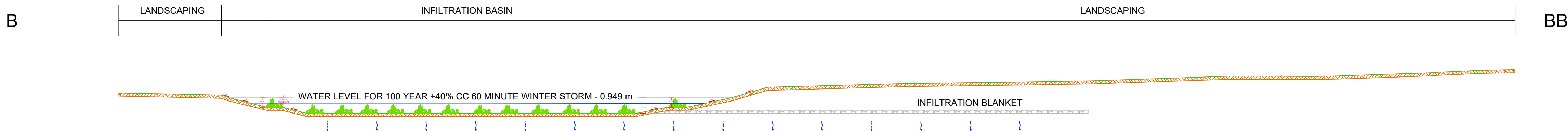
KEY

- PERMEABLE PAVING
- PERMEABLE ASPHALT
- SURFACE WATER MANHOLE
- SURFACE WATER PIPE
- PERFORATED PIPE
- DRAINAGE RILL
- INFILTRATION BASIN
- INFILTRATION BLANKET 300mm DEEP
- GABION DEBRIS FILTER
- LINEAR SuDS FILTER
- FILTER STRIP
- ROOT PROTECTION AREA

NOTES



TYPICAL SECTION THROUGH BASIN A-AA



TYPICAL SECTION THROUGH BASIN B-BB

P04	AMENDED TO SUIT REVISED LAYOUT	-	D.L.	-	MAY 25
P03	AMENDED SUIT REVISED LAYOUT	-	A.H.	-	FEB 25
P02	AMENDED TO SUIT REVISED LAYOUT	-	A.H.	-	FEB 25
P01	AMENDED TO SUIT WH APPARATUS PLAN	-	A.H.	-	18.02.25

REV	DESCRIPTION	DE	DR	CH	DATE
-	DESIGNED BY	-	DRAWN BY	-	CHECKED BY
-	-	-	A.H.	-	-

SCALE @ A1 SIZE	DATE
D.N.S.	JANUARY 2025

PROJECT TITLE
LANWADES WOODLAND PARK

DRAWING TITLE
TYPICAL SECTIONS THROUGH INFILTRATION BASIN - FULL

CLIENT
LOCHAILORT KENTFORD Ltd

cannon
CONSULTING ENGINEERS

Cambridge House, Lanwades Business Park, Kentford, Newmarket, CB8 7PN
Tel: 01638 555107
www.cannonce.co.uk
info@cannonce.co.uk

DRAWING NUMBER	REV.
ZF261 - PL - SK - 300	P04

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	500.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
HW2			34.066		569722.225	266432.129	1.500
S98	0.032	5.00	50.915	1200	569707.249	266007.360	1.125
S99			50.595	1200	569701.656	266020.352	1.200
S100	0.018	5.00	50.600	1200	569705.801	266030.407	1.270
S101	0.007	5.00	50.400	1200	569720.724	266035.589	1.240
S102	0.020	5.00	50.300	1200	569729.894	266037.943	1.200
S103	0.022	5.00	50.000	1350	569751.992	266040.822	1.375
S104	0.014	5.00	49.700	1350	569776.964	266040.863	1.275
S105	0.009	5.00	49.500	1350	569790.841	266040.485	1.275
S106	0.002	5.00	49.400	1350	569797.916	266036.967	1.275
S107	0.080	5.00	49.100	1350	569802.014	266044.016	1.275
S108	0.005	5.00	48.200	1350	569802.186	266067.231	1.275
S109	0.015	5.00	48.000	1350	569804.986	266075.571	2.125
S110			47.115	1350	569809.887	266094.269	1.279
S111	0.081	5.00	45.900	1500	569818.269	266118.942	1.500
S112	0.015	5.00	46.200	1500	569845.922	266119.119	1.966
S113	0.006	5.00	45.900	1500	569856.102	266121.412	1.728
S114	0.009	5.00	45.700	1500	569864.419	266125.515	1.584
S115	0.031	5.00	45.400	1500	569872.785	266132.547	1.500
S116	0.008	5.00	45.100	1500	569878.782	266141.012	1.500
S117	0.028	5.00	44.800	1500	569882.226	266149.613	1.500
S118	0.014	5.00	44.600	1500	569883.726	266158.976	1.500
S119	0.006	5.00	44.350	1500	569883.309	266167.054	1.500
S120	0.022	5.00	44.100	1500	569881.262	266175.176	1.500
S121	0.005	5.00	43.500	1500	569877.312	266187.213	1.500
S122	0.041	5.00	43.100	1500	569875.251	266193.346	1.500
S123	0.008	5.00	41.400	1500	569864.928	266226.499	1.500
S124	0.011	5.00	40.950	1500	569859.562	266236.973	1.500
S125	0.006	5.00	40.500	1500	569848.675	266244.885	1.500
S126	0.008	5.00	40.200	1500	569851.507	266252.923	1.500
S127	0.015	5.00	40.000	1500	569850.494	266262.009	1.500
S128	0.013	5.00	39.500	1500	569845.078	266277.870	1.500
S129	0.047	5.00	39.100	1500	569832.918	266289.309	1.699
S130	0.008	5.00	37.000	1500	569816.835	266342.853	1.650
S131	0.017	5.00	36.210	1500	569824.201	266355.039	1.650
S132	0.027	5.00	35.300	2400	569816.483	266379.587	1.791
S133	0.346	5.00	35.860	2400	569752.163	266359.341	2.643
S134			33.800	2400	569731.954	266422.697	1.158
S135	0.031	5.00	50.810	1200	569724.551	266013.034	1.125
S136			50.637	1200	569720.574	266024.095	1.125

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S137	0.048	5.00	50.040	1200	569721.934	266056.318	1.125
S138			50.250	1200	569728.673	266040.529	1.125
S137A			49.050	1200	569716.902	266062.459	1.875
S139	0.038	5.00	50.900	1200	569742.308	266009.137	1.125
S140			50.345	1200	569739.094	266032.307	1.125
S141	0.034	5.00	50.450	1200	569758.699	266014.157	1.125
S142			50.080	1200	569758.693	266033.688	1.125
S143	0.029	5.00	50.300	1200	569776.571	266015.736	1.125
S144			49.800	1200	569776.474	266033.809	1.125
S145	0.031	5.00	50.300	1200	569791.591	266013.940	1.125
S146			49.600	1200	569797.662	266031.107	1.125
S147	0.019	5.00	48.200	1350	569688.030	266074.309	1.350
S147A	0.033	5.00	47.900	1350	569716.635	266074.923	1.350
S148	0.088	5.00	47.550	1200	569745.015	266075.533	1.350
S149	0.047	5.00	44.600	1200	569807.450	266157.425	1.125
S150	0.175	5.00	44.200	1500	569803.640	266170.759	2.450
S151	0.057	5.00	43.600	1200	569796.558	266191.987	1.125
S152	0.154	5.00	41.500	1200	569800.382	266224.903	1.200
S153	0.049	5.00	40.850	1350	569823.324	266232.039	1.275
S154	0.031	5.00	40.700	1350	569838.429	266236.737	1.425
S155	0.003	5.00	40.650	1350	569844.947	266240.192	1.394
S156	0.049	5.00	39.350	1200	569809.939	266274.183	1.125
S157			40.950	1200	569821.963	266236.416	1.125
S158	0.229	5.00	39.900	1500	569755.106	266264.505	1.500
S159	0.080	5.00	39.100	1500	569809.428	266281.821	1.500
S160A	0.042	5.00	39.100	1200	569715.976	266288.441	1.350
S160B			39.200	1200	569728.023	266294.192	1.539
S160C			39.050	1200	569735.153	266295.420	1.437
S160	0.065	5.00	38.900	1200	569740.316	266298.912	1.350
S161	0.102	5.00	38.000	1200	569751.711	266322.557	1.800
S162	0.010	5.00	37.800	1200	569739.000	266330.491	1.200
S163	0.032	5.00	41.400	1200	569918.961	266219.787	1.125
S164	0.005	5.00	41.350	1200	569927.284	266220.667	1.125
S165	0.032	5.00	41.300	1200	569937.171	266223.363	1.211
S166			41.250	1200	569954.234	266228.141	1.232
S167	0.014	5.00	41.100	1200	569959.364	266229.433	1.200
S168	0.084	5.00	40.850	1200	569970.626	266234.024	1.200
S169	0.029	5.00	39.000	1200	569958.142	266276.377	1.200
S170	0.015	5.00	38.650	1200	569953.823	266283.898	1.200
S171	0.007	5.00	38.200	1350	569946.393	266291.449	1.275
S172	0.022	5.00	38.050	1350	569941.022	266296.907	1.275

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S173	0.078	5.00	37.900	1350	569937.632	266303.145	1.275
S174	0.090	5.00	37.300	1350	569930.748	266325.076	2.849
S175	0.006	5.00	36.400	1350	569920.193	266358.705	2.019
S176	0.005	5.00	36.250	1500	569917.070	266364.144	2.522
S177	0.065	5.00	36.100	1500	569911.140	266365.232	2.384
S178	0.012	5.00	35.800	1500	569874.696	266353.280	2.161
S179	0.022	5.00	36.000	1500	569860.969	266353.566	2.388
S180	0.009	5.00	35.600	1500	569830.976	266369.547	2.056
S181	0.026	5.00	41.000	1200	569899.162	266230.781	1.125
S182	0.039	5.00	40.150	1200	569893.843	266247.694	1.200
S183	0.047	5.00	39.100	1200	569882.910	266281.536	1.200
S184			38.580	1200	569874.893	266304.710	1.200
S185	0.070	5.00	38.500	1200	569871.760	266314.427	1.200
S186			36.150	1200	569861.547	266346.673	1.200
S187	0.027	5.00	39.100	1200	569919.553	266253.367	1.125
S188	0.006	5.00	38.900	1200	569934.577	266258.694	1.175
S189			38.800	1200	569929.549	266273.997	1.171
S190	0.030	5.00	38.700	1200	569928.338	266280.641	1.200
S191	0.007	5.00	38.500	1200	569938.689	266284.040	1.125
S192	0.024	5.00	38.900	1200	569942.645	266260.791	1.125
S193	0.066	5.00	39.400	1200	569895.019	266269.890	1.425
S194	0.043	5.00	36.200	1200	569947.081	266352.086	1.350
S195	0.025	5.00	37.200	1200	569952.710	266332.082	2.474
S196			37.400	1200	569940.167	266328.081	2.753
S197	0.047	5.00	35.600	1200	569947.720	266377.425	1.350
S198			36.200	1200	569919.606	266368.752	2.146
Junction 1			50.150		569738.300	266039.038	1.194
Junction 2			49.900		569758.681	266040.833	1.329
S1	0.036	5.00	51.900	1200	569693.644	265987.272	1.125
S2	0.008	5.00	52.836	1200	569671.324	265967.100	2.241
S3	0.021	5.00	53.000	1200	569664.258	265965.779	2.448
S4	0.004	5.00	52.845	1200	569659.663	265970.021	2.405
S5			52.403	1200	569655.344	265984.061	2.023
S6	0.062	5.00	52.300	1200	569654.028	265988.258	1.938
S7	0.030	5.00	50.700	1200	569684.791	266016.496	1.200
S8	0.019	5.00	50.300	1200	569690.655	266025.584	1.200
S9	0.010	5.00	49.900	1200	569692.129	266033.724	1.200
S10	0.036	5.00	49.500	1200	569691.212	266044.245	1.200
S11	0.036	5.00	48.900	1200	569685.239	266058.562	1.200
S12			48.200	1200	569676.084	266070.212	1.200
S13	0.037	5.00	47.800	1350	569672.145	266077.787	1.350
S14	0.009	5.00	46.700	1350	569668.227	266099.200	1.350
S15	0.011	5.00	46.100	1350	569665.373	266110.831	1.350
S16	0.005	5.00	45.800	1350	569660.670	266117.924	1.350
S17	0.005	5.00	45.500	1350	569654.528	266123.192	1.378
S18	0.018	5.00	45.100	1350	569650.373	266129.188	1.350

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S19	0.015	5.00	43.600	1500	569641.670	266159.999	1.697
S20	0.003	5.00	42.100	1500	569632.186	266197.964	1.650
S21	0.004	5.00	41.900	1500	569632.239	266204.527	1.650
S22	0.008	5.00	41.800	1500	569638.686	266207.495	1.650
S23	0.012	5.00	41.500	1500	569653.121	266206.789	1.650
S24	0.024	5.00	41.350	1500	569665.896	266207.721	1.650
S25	0.050	5.00	41.050	1800	569689.747	266215.221	1.650
S26	0.045	5.00	40.950	1800	569716.528	266223.642	1.650
S27			40.700	2025	569708.769	266249.438	3.650
S28	0.123	5.00	40.850	1800	569705.170	266256.527	3.816
S29			39.250	1800	569691.639	266299.641	2.306
S30	0.015	5.00	39.055	1800	569686.726	266302.745	2.123
S31	0.030	5.00	37.070	1800	569676.329	266335.295	1.800
S32			35.860	1800	569749.162	266358.558	1.800
S33			34.550	1800	569729.000	266421.683	1.800
S34	0.043	5.00	52.100	1200	569635.087	265985.197	1.125
S35	0.004	5.00	51.900	1200	569628.916	265992.284	1.125
S36	0.004	5.00	51.800	1200	569627.954	266000.695	1.200
S37	0.037	5.00	51.600	1200	569632.049	266008.521	1.200
S38	0.028	5.00	50.500	1200	569649.320	266026.657	1.200
S39	0.042	5.00	50.100	1200	569653.776	266033.387	1.200
S40	0.019	5.00	48.500	1350	569665.380	266062.580	1.799
S36D	0.021	5.00	53.000	1200	569559.508	265990.528	1.050
S36C	0.014	5.00	52.770	1200	569570.838	265996.535	1.125
S36B	0.032	5.00	52.420	1200	569585.881	266000.083	1.200
S36A	0.008	5.00	52.000	1200	569619.680	266002.347	1.200
S41	0.030	5.00	48.750	1200	569632.443	266062.879	1.125
S42	0.043	5.00	48.100	1200	569637.114	266073.403	1.200
S45	0.084	5.00	50.626	1200	569605.023	266014.426	1.125
S46	0.158	5.00	49.750	1200	569592.689	266050.698	1.200
S47	0.031	5.00	45.050	1200	569563.589	266136.276	1.050
S48	0.008	5.00	44.700	1350	569583.761	266143.718	1.275
S50	0.022	5.00	43.888	1350	569600.923	266149.532	1.350
S51	0.007	5.00	43.700	1350	569611.280	266152.891	1.350
S52	0.018	5.00	43.600	1500	569619.197	266154.068	1.425
S53			43.600	1500	569632.488	266156.556	1.452
S54	0.039	5.00	45.150	1200	569641.119	266128.036	1.125
S55	0.050	5.00	47.200	1200	569616.504	266094.589	1.125
S56	0.042	5.00	47.100	1200	569623.200	266107.761	1.125
S57	0.008	5.00	45.900	1200	569646.372	266114.998	1.125
S58			45.500	1200	569651.500	266119.636	1.125
S59	0.087	5.00	45.500	1200	569796.882	266118.921	1.200
S60	0.004	5.00	45.700	1200	569746.807	266119.039	1.605
S61	0.007	5.00	45.450	1350	569741.275	266120.945	2.317
S62	0.012	5.00	45.000	1350	569739.155	266130.612	1.908

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S63	0.085	5.00	44.200	1350	569737.861	266148.334	1.350
S64	0.005	5.00	42.500	1350	569727.863	266181.615	1.877
S65	0.060	5.00	42.000	1350	569728.988	266189.707	1.411
S66	0.011	5.00	41.400	1350	569731.889	266205.632	1.669
S67	0.032	5.00	41.200	1350	569722.069	266211.829	1.508
S68	0.046	5.00	44.750	1200	569686.573	266142.289	1.125
S69	0.009	5.00	45.124	1200	569691.921	266127.237	1.594
S70	0.007	5.00	45.260	1200	569700.137	266121.993	1.788
S71	0.040	5.00	45.382	1200	569709.372	266119.613	2.042
S72	0.002	5.00	45.400	1200	569736.166	266119.614	2.170
S73	0.030	5.00	44.600	1200	569772.257	266158.504	1.050
S74	0.029	5.00	42.700	1200	569763.631	266167.315	1.275
S75	0.042	5.00	42.095	1200	569756.634	266187.721	1.350
S76			42.600	1200	569735.381	266181.197	1.933
S77	0.085	5.00	41.250	1350	569780.854	266218.185	1.350
S78	0.008	5.00	41.600	1350	569742.511	266205.898	1.834
S79	0.062	5.00	43.700	1200	569681.085	266150.296	1.125
S80	0.041	5.00	42.940	1200	569674.027	266177.447	1.125
S81			41.550	1200	569666.621	266202.854	1.125
S82	0.074	5.00	41.375	1200	569754.894	266223.226	1.125
S83			40.200	1200	569744.208	266256.759	1.200
S84	0.086	5.00	40.200	1500	569736.383	266258.504	2.498
S89	0.068	5.00	41.410	1200	569660.558	266214.654	1.125
S90			39.500	1200	569649.441	266249.450	1.200
S91	0.038	5.00	39.500	1200	569648.075	266253.782	1.219
S92	0.040	5.00	39.400	1200	569642.178	266272.743	1.199
S93			39.200	1200	569641.462	266283.386	1.200
S94	0.078	5.00	38.800	1200	569642.508	266296.018	1.200
Junction 3			37.660		569634.265	266321.860	1.500
S95	0.010	5.00	39.775	1200	569629.410	266260.393	1.050
S96			39.650	1200	569639.861	266260.030	1.050
Junction 4			39.450		569645.634	266261.631	1.202
S97	0.253	5.00	38.400	1500	569613.821	266315.330	1.953
Dummy 1			33.800	1200			1.234
R1	0.006	5.00	41.600		569633.917	266212.065	0.200
R2	0.002	5.00	41.400		569630.513	266214.561	0.200
R3	0.016	5.00	41.300		569629.524	266217.756	0.200
R4	0.014	5.00	40.100		569621.211	266252.183	0.200
R5	0.022	5.00	39.600		569617.173	266267.821	0.200
R6	0.033	5.00	38.500		569607.470	266305.304	0.200
R7	0.029	5.00	37.600		569599.465	266336.605	0.200

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
R8	0.007	5.00	36.500		569587.454	266384.131	0.200
R9	0.017	5.00	36.230		569586.217	266394.305	0.200
R10	0.004	5.00	36.010		569587.434	266408.650	0.200
R11	0.014	5.00	35.960		569587.124	266415.257	0.200
R12	0.030	5.00	35.590		569584.442	266431.374	0.200
R13			35.560		569587.356	266434.025	0.200
R14			35.220		569601.654	266432.809	0.200

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S98	S99	14.145	0.600	49.790	49.470	0.320	44.2	150	5.16	185.7
1.001	S99	S100	10.876	0.600	49.395	49.330	0.065	167.3	225	5.34	183.6
1.002	S100	S101	15.797	0.600	49.330	49.235	0.095	166.3	225	5.60	180.5
1.003	S101	S102	9.467	0.600	49.160	49.100	0.060	157.8	300	5.72	179.0
1.004	S102	Junction 1	8.477	0.600	49.100	48.956	0.144	58.9	300	5.79	178.2
1.005	Junction 1	S103	13.808	0.600	48.956	48.725	0.231	59.8	300	5.90	176.7
1.006	S103	Junction 2	6.689	0.600	48.625	48.571	0.054	123.9	375	5.97	176.1
1.007	Junction 2	S104	18.283	0.600	48.571	48.425	0.146	125.2	375	6.16	174.3
1.008	S104	S105	13.882	0.600	48.425	48.225	0.200	69.4	375	6.27	173.1
1.009	S105	S106	7.901	0.600	48.225	48.125	0.100	79.0	375	6.33	172.4
1.010	S106	S107	8.154	0.600	48.125	47.825	0.300	27.2	375	6.37	172.0
1.011	S107	S108	23.216	0.600	47.825	46.925	0.900	25.8	375	6.48	170.8
1.012	S108	S109	8.797	0.600	46.925	45.950	0.975	9.0	375	6.50	170.2
1.013	S109	S110	19.330	0.600	45.875	45.836	0.039	495.6	450	6.86	164.3
1.014	S110	S111	26.058	0.600	45.836	44.550	1.286	20.3	450	6.95	163.2
1.015	S111	S112	27.654	0.600	44.400	44.234	0.166	166.6	600	7.20	160.8
1.016	S112	S113	10.435	0.600	44.234	44.172	0.062	168.3	600	7.29	159.9
1.017	S113	S114	9.274	0.600	44.172	44.116	0.056	165.6	600	7.37	159.1

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	1.517	26.8	21.5	0.975	0.975	0.032	0.0	102	1.682
1.001	1.008	40.1	21.2	0.975	1.045	0.032	0.0	116	1.022
1.002	1.011	40.2	32.6	1.045	0.940	0.050	0.0	154	1.123
1.003	1.249	88.3	56.9	0.940	0.900	0.088	0.0	175	1.324
1.004	2.053	145.1	69.6	0.900	0.894	0.108	0.0	146	2.031
1.005	2.037	144.0	93.2	0.894	0.975	0.146	0.0	176	2.162
1.006	1.626	179.6	106.9	1.000	0.954	0.168	0.0	208	1.693
1.007	1.617	178.6	127.2	0.954	0.900	0.202	0.0	235	1.751
1.008	2.177	240.4	153.3	0.900	0.900	0.245	0.0	218	2.302
1.009	2.040	225.3	158.3	0.900	0.900	0.254	0.0	233	2.202
1.010	3.487	385.1	178.4	0.900	0.900	0.287	0.0	179	3.422
1.011	3.579	395.3	226.5	0.900	0.900	0.367	0.0	204	3.697
1.012	6.061	669.4	228.8	0.900	1.675	0.372	0.0	151	5.507
1.013	0.906	144.1	341.4	1.675	0.829	0.575	0.0	450	0.918
1.014	4.532	720.7	339.1	0.829	0.900	0.575	0.0	217	4.462
1.015	1.884	532.6	381.2	0.900	1.366	0.656	0.0	377	2.039
1.016	1.874	529.8	387.8	1.366	1.128	0.671	0.0	383	2.038
1.017	1.889	534.2	389.3	1.128	0.984	0.677	0.0	382	2.053

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.018	S114	S115	10.929	0.600	44.116	43.900	0.216	50.6	600	7.43	158.5
1.019	S115	S116	10.374	0.600	43.900	43.600	0.300	34.6	600	7.47	158.1
1.020	S116	S117	9.265	0.600	43.600	43.300	0.300	30.9	600	7.50	157.8
1.021	S117	S118	9.482	0.600	43.300	43.100	0.200	47.4	600	7.55	157.4
1.022	S118	S119	8.089	0.600	43.100	42.850	0.250	32.4	600	7.58	157.0
1.023	S119	S120	8.376	0.600	42.850	42.600	0.250	33.5	600	7.61	156.7
1.024	S120	S121	12.669	0.600	42.600	42.000	0.600	21.1	600	7.65	156.3
1.025	S121	S122	6.470	0.600	42.000	41.600	0.400	16.2	600	7.67	156.2
1.026	S122	S123	34.723	0.600	41.600	39.900	1.700	20.4	600	7.78	155.1
1.027	S123	S124	11.769	0.600	39.900	39.450	0.450	26.2	600	7.82	154.7
1.028	S124	S125	13.458	0.600	39.450	39.000	0.450	29.9	600	7.87	154.3
1.029	S125	S126	8.522	0.600	39.000	38.700	0.300	28.4	600	7.90	154.0
1.030	S126	S127	9.142	0.600	38.700	38.500	0.200	45.7	600	7.94	153.6
1.031	S127	S128	16.760	0.600	38.500	38.000	0.500	33.5	600	8.01	153.1
1.032	S128	S129	16.695	0.600	38.000	37.551	0.449	37.2	600	8.08	152.4
1.033	S129	S130	55.907	0.600	37.401	35.350	2.051	27.3	750	8.25	150.7
1.034	S130	S131	14.239	0.600	35.350	34.560	0.790	18.0	750	8.29	150.3
1.035	S131	S132	25.733	0.600	34.560	33.526	1.034	24.9	750	8.36	149.5
1.036	S132	S133	67.431	0.600	33.526	33.217	0.309	218.2	750	8.96	138.4
1.037	S133	S134	66.501	0.600	33.217	32.642	0.575	115.7	750	9.38	135.0
1.038	S134	HW2	13.550	0.600	32.642	32.566	0.076	178.3	750	9.49	134.2
28.003	S48	S50	18.120	0.600	43.425	42.613	0.812	22.3	375	5.90	176.8
2.000	S135	S136	11.754	0.600	49.685	49.512	0.173	67.9	225	5.12	186.1
2.001	S136	S101	11.495	0.600	49.512	49.235	0.277	41.5	225	5.22	185.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.018	3.428	969.3	393.0	0.984	0.900	0.686	0.0	265	3.256
1.019	4.150	1173.3	409.7	0.900	0.900	0.717	0.0	244	3.797
1.020	4.392	1241.8	413.5	0.900	0.900	0.725	0.0	238	3.969
1.021	3.542	1001.5	428.3	0.900	0.900	0.753	0.0	274	3.412
1.022	4.290	1213.1	435.2	0.900	0.900	0.767	0.0	248	3.952
1.023	4.216	1192.1	437.8	0.900	0.900	0.773	0.0	251	3.908
1.024	5.314	1502.6	449.1	0.900	0.900	0.795	0.0	224	4.673
1.025	6.074	1717.3	451.6	0.900	0.900	0.800	0.0	209	5.161
1.026	5.403	1527.8	627.8	0.900	0.900	1.120	0.0	267	5.151
1.027	4.774	1349.7	630.6	0.900	0.900	1.128	0.0	288	4.695
1.028	4.463	1262.0	635.2	0.900	0.900	1.139	0.0	301	4.472
1.029	4.580	1294.9	769.2	0.900	0.900	1.382	0.0	334	4.767
1.030	3.608	1020.0	771.6	0.900	0.900	1.390	0.0	392	3.946
1.031	4.215	1191.8	777.4	0.900	0.900	1.405	0.0	354	4.476
1.032	4.001	1131.4	781.0	0.900	0.949	1.418	0.0	368	4.299
1.033	5.371	2373.0	992.9	0.949	0.900	1.823	0.0	338	5.146
1.034	6.609	2919.7	1113.5	0.900	0.900	2.050	0.0	320	6.186
1.035	5.622	2483.8	1116.8	0.900	1.024	2.067	0.0	352	5.479
1.036	1.890	1670.0	1539.5	1.024	1.893	3.078	0.0	572	2.128
1.037	2.601	2298.2	1670.5	1.893	0.408	3.424	0.0	476	2.823
1.038	2.092	1848.8	1660.6	0.408	0.750	3.424	0.0	559	2.350
28.003	3.849	425.1	179.5	0.900	0.900	0.281	0.0	170	3.690
2.000	1.589	63.2	20.8	0.900	0.900	0.031	0.0	89	1.432
2.001	2.036	81.0	20.7	0.900	0.940	0.031	0.0	78	1.715

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
7.000	S138	S137	17.167	0.600	49.125	48.915	0.210	81.7	225	5.20	185.2
7.001	S137	S137A	7.939	0.600	48.915	47.925	0.990	8.0	225	5.23	184.9
7.002	S137A	S147A	12.467	0.600	47.175	46.775	0.400	31.2	225	5.31	183.8
3.000	S139	S140	23.392	0.600	49.775	49.220	0.555	42.1	225	5.19	185.3
3.001	S140	Junction 1	6.778	0.600	49.220	49.031	0.189	35.9	225	5.24	184.7
4.000	S141	S142	19.531	0.600	49.325	48.955	0.370	52.8	225	5.18	185.4
4.001	S142	Junction 2	7.145	0.600	48.955	48.721	0.234	30.5	225	5.23	184.8
5.000	S143	S144	18.073	0.600	49.175	48.675	0.500	36.1	225	5.14	185.9
5.001	S144	S104	7.071	0.600	48.675	48.575	0.100	70.7	225	5.21	185.0
6.000	S145	S146	18.209	0.600	49.175	48.475	0.700	26.0	225	5.12	186.2
6.001	S146	S106	5.866	0.600	48.475	48.275	0.200	29.3	225	5.16	185.7
8.000	S147	S147A	28.612	0.600	46.850	46.550	0.300	95.4	450	5.23	184.9
7.003	S147A	S148	28.387	0.600	46.550	46.200	0.350	81.1	450	5.52	179.9
7.004	S148	S109	59.971	0.600	46.200	45.875	0.325	184.5	450	6.19	168.0
10.000	S149	S150	13.868	0.600	43.475	42.125	1.350	10.3	225	5.06	186.9
9.001	S150	S122	75.089	0.600	41.750	41.600	0.150	500.6	600	6.39	171.4
9.000	S151	S150	22.378	0.600	42.475	42.125	0.350	63.9	225	5.23	184.9

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
7.000	1.447	57.5	32.1	0.900	0.900	0.048	0.0	120	1.484
7.001	4.649	184.8	32.1	0.900	0.900	0.048	0.0	63	3.502
7.002	2.352	93.5	31.9	1.650	0.900	0.048	0.0	90	2.130
3.000	2.020	80.3	25.4	0.900	0.900	0.038	0.0	87	1.795
3.001	2.191	87.1	25.4	0.900	0.894	0.038	0.0	83	1.908
4.000	1.804	71.7	22.8	0.900	0.900	0.034	0.0	87	1.603
4.001	2.376	94.5	22.7	0.900	0.954	0.034	0.0	75	1.967
5.000	2.183	86.8	19.5	0.900	0.900	0.029	0.0	73	1.773
5.001	1.557	61.9	19.4	0.900	0.900	0.029	0.0	87	1.383
6.000	2.575	102.4	20.9	0.900	0.900	0.031	0.0	69	2.038
6.001	2.424	96.4	20.8	0.900	0.900	0.031	0.0	71	1.945
8.000	2.082	331.1	12.7	0.900	0.900	0.019	0.0	59	1.021
7.003	2.259	359.2	65.0	0.900	0.900	0.100	0.0	129	1.731
7.004	1.493	237.5	114.1	0.900	1.675	0.188	0.0	220	1.480
10.000	4.106	163.2	31.7	0.900	1.850	0.047	0.0	67	3.207
9.001	1.081	305.7	172.8	1.850	0.900	0.279	0.0	323	1.113
9.000	1.638	65.1	38.1	0.900	1.850	0.057	0.0	123	1.699

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
11.000	S152	S153	24.026	0.600	40.300	39.650	0.650	37.0	300	5.15	185.7
11.001	S153	S154	15.819	0.600	39.575	39.350	0.225	70.3	375	5.28	184.3
11.002	S154	S155	7.377	0.600	39.275	39.256	0.019	388.3	450	5.40	182.9
11.003	S155	S125	5.994	0.600	39.256	39.150	0.106	56.5	450	5.43	182.4
12.000	S158	S159	57.015	0.600	38.400	37.600	0.800	71.3	600	5.33	183.7
12.001	S159	S129	24.655	0.600	37.600	37.551	0.049	503.2	600	5.71	177.0
13.000	S157	S156	39.635	0.600	39.825	38.225	1.600	24.8	225	5.25	184.6
13.001	S156	S159	7.655	0.600	38.225	37.975	0.250	30.6	225	5.30	184.0
14.000_1	S160A	S160B	13.349	0.600	37.750	37.661	0.089	150.0	450	5.13	185.5
14.001_1	S160B	S160C	7.235	0.600	37.661	37.613	0.048	150.7	450	5.21	184.4
14.002	S160C	S160	6.233	0.600	37.613	37.550	0.063	98.9	450	5.26	183.6
14.000	S160	S161	26.248	0.600	37.550	36.350	1.200	21.9	450	5.36	186.0
14.001	S161	S130	68.213	0.600	36.200	35.500	0.700	97.4	600	5.82	176.3
15.000	S162	S161	14.984	0.600	36.600	36.500	0.100	149.8	300	5.19	184.8
16.000	S163	S164	8.369	0.600	40.275	40.225	0.050	167.4	225	5.14	185.9
16.001	S164	S165	10.248	0.600	40.225	40.164	0.061	168.0	225	5.31	183.9
16.002	S165	S166	17.719	0.600	40.089	40.018	0.071	249.6	300	5.61	180.4
16.003	S166	S167	5.290	0.600	40.018	39.900	0.118	44.8	300	5.64	179.9
16.004	S167	S168	12.162	0.600	39.900	39.650	0.250	48.6	300	5.73	178.8

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
11.000	2.594	183.3	103.4	0.900	0.900	0.154	0.0	161	2.669
11.001	2.163	238.9	135.2	0.900	0.975	0.203	0.0	203	2.229
11.002	1.025	163.1	154.7	0.975	0.944	0.234	0.0	352	1.159
11.003	2.707	430.6	156.2	0.944	0.900	0.237	0.0	187	2.499
12.000	2.887	816.2	152.0	0.900	0.900	0.229	0.0	174	2.232
12.001	1.079	304.9	229.0	0.900	0.949	0.358	0.0	389	1.179
13.000	2.639	104.9	32.7	0.900	0.900	0.049	0.0	86	2.334
13.001	2.373	94.3	32.6	0.900	0.900	0.049	0.0	91	2.159
14.000_1	1.657	263.6	28.2	0.900	1.089	0.042	0.0	98	1.093
14.001_1	1.653	263.0	28.0	1.089	0.987	0.042	0.0	98	1.090
14.002	2.044	325.0	27.9	0.987	0.900	0.042	0.0	88	1.270
14.000	4.361	693.6	71.9	0.900	1.200	0.107	0.0	97	2.867
14.001	2.467	697.5	139.5	1.200	0.900	0.219	0.0	181	1.947
15.000	1.282	90.6	6.7	0.900	1.200	0.010	0.0	55	0.758
16.000	1.008	40.1	21.5	0.900	0.900	0.032	0.0	117	1.025
16.001	1.006	40.0	24.6	0.900	0.911	0.037	0.0	128	1.056
16.002	0.990	70.0	45.0	0.911	0.932	0.069	0.0	175	1.049
16.003	2.354	166.4	44.9	0.932	0.900	0.069	0.0	106	2.006
16.004	2.259	159.7	53.6	0.900	0.900	0.083	0.0	119	2.041

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
16.005	S168	S169	44.155	0.600	39.650	37.800	1.850	23.9	300	5.96	176.1
16.006	S169	S170	8.673	0.600	37.800	37.450	0.350	24.8	300	6.01	175.6
16.007	S170	S171	10.594	0.600	37.450	37.000	0.450	23.5	300	6.06	175.0
16.008	S171	S172	7.658	0.600	36.925	36.775	0.150	51.1	375	6.11	174.4
16.009	S172	S173	7.100	0.600	36.775	36.625	0.150	47.3	375	6.16	173.9
16.010	S173	S174	22.986	0.600	36.625	34.676	1.949	11.8	375	6.23	172.5
16.011	S174	S175	35.247	0.600	34.451	34.381	0.070	503.5	600	6.77	170.5
16.012	S175	S176	6.272	0.600	34.381	33.878	0.503	12.5	600	6.79	170.1
16.013	S176	S177	6.029	0.600	33.728	33.716	0.012	502.4	750	6.87	164.7
16.014	S177	S178	38.354	0.600	33.716	33.639	0.077	498.1	750	7.38	158.8
16.015	S178	S179	13.730	0.600	33.639	33.612	0.027	508.5	750	7.57	156.8
16.016	S179	S180	33.985	0.600	33.612	33.544	0.068	499.8	750	8.02	153.5
16.017	S180	S132	17.631	0.600	33.544	33.509	0.035	503.7	750	8.26	152.7
22.000	S181	S182	17.730	0.600	39.875	39.025	0.850	20.9	225	5.10	186.4
22.001	S182	S183	35.564	0.600	38.950	37.900	1.050	33.9	300	5.32	183.8
22.002	S183	S184	24.522	0.600	37.900	37.380	0.520	47.2	300	5.50	181.6
22.003	S184	S185	10.210	0.600	37.380	37.300	0.080	127.6	300	5.62	180.2
22.004	S185	S186	33.825	0.600	37.300	34.950	2.350	14.4	300	5.76	178.6
22.005	S186	S179	6.917	0.600	34.950	34.079	0.871	7.9	300	5.78	178.3
17.000	S187	S188	15.940	0.600	37.975	37.775	0.200	79.7	225	5.18	185.4
17.001	S188	S189	16.108	0.600	37.725	37.629	0.096	167.8	225	5.45	182.2
17.002	S189	S190	6.753	0.600	37.629	37.575	0.054	125.1	225	5.54	181.1

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
16.005	3.231	228.4	106.3	0.900	0.900	0.167	0.0	144	3.176
16.006	3.171	224.1	124.4	0.900	0.900	0.196	0.0	160	3.249
16.007	3.253	230.0	133.4	0.900	0.900	0.211	0.0	164	3.370
16.008	2.541	280.6	238.2	0.900	0.900	0.378	0.0	267	2.837
16.009	2.639	291.5	251.4	0.900	0.900	0.400	0.0	270	2.952
16.010	5.300	585.4	298.0	0.900	2.249	0.478	0.0	189	5.321
16.011	1.078	304.8	391.9	2.249	1.419	0.636	0.0	600	1.088
16.012	6.919	1956.4	394.7	1.419	1.772	0.642	0.0	181	5.475
16.013	1.241	548.4	413.1	1.772	1.634	0.694	0.0	488	1.357
16.014	1.247	550.8	435.6	1.634	1.411	0.759	0.0	506	1.375
16.015	1.234	545.1	436.9	1.411	1.638	0.771	0.0	511	1.364
16.016	1.245	549.9	540.9	1.638	1.306	0.975	0.0	610	1.407
16.017	1.240	547.7	543.0	1.306	1.041	0.984	0.0	615	1.401
22.000	2.877	114.4	17.5	0.900	0.900	0.026	0.0	59	2.099
22.001	2.710	191.6	43.2	0.900	0.900	0.065	0.0	96	2.203
22.002	2.295	162.2	73.5	0.900	0.900	0.112	0.0	142	2.240
22.003	1.390	98.3	72.9	0.900	0.900	0.112	0.0	193	1.518
22.004	4.165	294.4	117.5	0.900	0.900	0.182	0.0	132	3.938
22.005	5.611	396.6	117.3	0.900	1.621	0.182	0.0	112	4.913
17.000	1.466	58.3	18.1	0.900	0.900	0.027	0.0	86	1.295
17.001	1.006	40.0	37.5	0.950	0.946	0.057	0.0	174	1.139
17.002	1.168	46.4	37.3	0.946	0.900	0.057	0.0	153	1.295

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
17.003	S190	S191	10.895	0.600	37.500	37.375	0.125	87.2	300	5.65	179.8
17.004	S191	S171	10.689	0.600	37.375	37.000	0.375	28.5	300	5.71	179.1
18.000	S192	S188	8.336	0.600	37.775	37.725	0.050	166.7	225	5.14	185.9
19.000	S193	S190	35.011	0.600	37.975	37.575	0.400	87.5	225	5.42	182.6
20.000	S194	S195	20.781	0.600	34.850	34.726	0.124	167.6	450	5.22	183.5
20.001	S195	S196	13.166	0.600	34.726	34.647	0.079	166.7	450	5.36	180.9
20.002	S196	S174	9.887	0.600	34.647	34.601	0.046	214.9	450	5.48	178.9
21.000	S197	S198	29.421	0.600	34.250	34.054	0.196	150.1	450	5.30	181.8
21.001	S198	S176	5.260	0.600	34.054	34.028	0.026	202.3	450	5.36	180.7
23.000	S1	S2	30.085	0.600	50.775	50.595	0.180	167.1	225	5.50	181.7
23.001	S2	S3	7.188	0.600	50.595	50.552	0.043	167.2	225	5.62	180.2
23.002	S3	S4	6.254	0.600	50.552	50.515	0.037	169.0	225	5.72	179.0
23.003	S4	S5	14.689	0.600	50.440	50.380	0.060	244.8	300	5.96	176.1
23.004	S5	S6	4.398	0.600	50.380	50.362	0.018	244.3	300	6.04	175.2
23.005	S6	S7	41.758	0.600	50.362	49.500	0.862	48.4	300	6.35	171.8
23.006	S7	S8	10.816	0.600	49.500	49.100	0.400	27.0	300	6.40	171.2
23.007	S8	S9	8.272	0.600	49.100	48.700	0.400	20.7	300	6.44	170.7
23.008	S9	S10	10.561	0.600	48.700	48.300	0.400	26.4	300	6.50	170.1
23.009	S10	S11	15.513	0.600	48.300	47.700	0.600	25.9	300	6.59	169.2
23.010	S11	S12	14.817	0.600	47.700	47.000	0.700	21.2	300	6.66	168.4
23.011	S12	S13	8.538	0.600	47.000	46.600	0.400	21.3	300	6.70	167.9

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
17.003	1.685	119.1	99.4	0.900	0.825	0.153	0.0	211	1.878
17.004	2.956	208.9	103.6	0.825	0.900	0.160	0.0	149	2.949
18.000	1.010	40.1	16.1	0.900	0.950	0.024	0.0	99	0.955
19.000	1.398	55.6	43.6	1.200	0.900	0.066	0.0	151	1.544
20.000	1.567	249.3	28.5	0.900	2.024	0.043	0.0	102	1.054
20.001	1.572	250.0	44.5	2.024	2.303	0.068	0.0	128	1.200
20.002	1.382	219.9	44.0	2.303	2.249	0.068	0.0	136	1.089
21.000	1.657	263.5	30.9	0.900	1.696	0.047	0.0	103	1.125
21.001	1.425	226.7	30.7	1.696	1.772	0.047	0.0	111	1.008
23.000	1.008	40.1	23.6	0.900	2.016	0.036	0.0	124	1.049
23.001	1.008	40.1	28.7	2.016	2.223	0.044	0.0	141	1.094
23.002	1.003	39.9	42.0	2.223	2.105	0.065	0.0	200	1.127
23.003	1.000	70.7	43.9	2.105	1.723	0.069	0.0	171	1.052
23.004	1.001	70.8	43.7	1.723	1.638	0.069	0.0	171	1.052
23.005	2.264	160.0	81.3	1.638	0.900	0.131	0.0	151	2.273
23.006	3.035	214.5	99.6	0.900	0.900	0.161	0.0	144	2.983
23.007	3.472	245.4	111.0	0.900	0.900	0.180	0.0	142	3.389
23.008	3.071	217.1	116.8	0.900	0.900	0.190	0.0	157	3.125
23.009	3.104	219.4	138.2	0.900	0.900	0.226	0.0	173	3.275
23.010	3.432	242.6	159.5	0.900	0.900	0.262	0.0	178	3.654
23.011	3.417	241.6	159.0	0.900	0.900	0.262	0.0	178	3.638

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
23.012	S13	S14	21.768	0.600	46.450	45.350	1.100	19.8	450	6.78	166.9
23.013	S14	S15	11.976	0.600	45.350	44.750	0.600	20.0	450	6.82	166.4
23.014	S15	S16	8.511	0.600	44.750	44.450	0.300	28.4	450	6.86	165.9
23.015	S16	S17	8.092	0.600	44.450	44.122	0.328	24.7	450	6.89	165.5
23.016	S17	S18	7.295	0.600	44.122	43.750	0.372	19.6	450	6.92	165.2
23.017	S18	S19	32.017	0.600	43.750	42.203	1.547	20.7	450	7.04	163.8
23.018	S19	S20	39.132	0.600	41.903	40.450	1.453	26.9	750	7.16	148.3
23.019	S20	S21	6.563	0.600	40.450	40.250	0.200	32.8	750	7.18	148.0
23.020	S21	S22	7.097	0.600	40.250	40.150	0.100	71.0	750	7.22	147.6
23.021	S22	S23	14.452	0.600	40.150	39.850	0.300	48.2	750	7.28	147.0
23.022	S23	S24	12.809	0.600	39.850	39.700	0.150	85.4	750	7.35	146.3
23.023	S24	S25	25.002	0.600	39.700	39.400	0.300	83.3	750	7.48	145.0
23.024	S25	S26	28.074	0.600	39.400	39.300	0.100	280.7	750	7.76	142.9
23.025	S26	S27	26.938	0.600	39.300	37.050	2.250	12.0	750	7.82	141.6
23.026	S27	S28	7.950	0.600	37.050	37.034	0.016	496.9	750	7.92	141.5
23.027	S28	S29	45.187	0.600	37.034	36.944	0.090	502.1	750	8.53	137.1
23.028	S29	S30	5.811	0.600	36.944	36.932	0.012	484.3	750	8.61	136.6
23.029	S30	S31	34.170	0.600	36.932	35.420	1.512	22.6	750	8.70	135.9
23.030	S31	S32	76.458	0.600	35.270	34.060	1.210	63.2	900	9.03	133.4
23.031	S32	S33	66.267	0.600	34.060	32.750	1.310	50.6	900	9.28	131.5
23.032	S33	HW2	12.454	0.600	32.750	32.566	0.184	67.7	900	9.33	142.9
24.000	S34	S35	9.397	0.600	50.975	50.775	0.200	47.0	225	5.08	186.6
24.001	S35	S36	8.466	0.600	50.775	50.675	0.100	84.7	225	5.18	185.4

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
23.012	4.586	729.3	376.4	0.900	0.900	0.624	0.0	229	4.618
23.013	4.566	726.2	380.7	0.900	0.900	0.633	0.0	232	4.618
23.014	3.828	608.8	386.1	0.900	0.900	0.644	0.0	261	4.041
23.015	4.106	653.0	388.2	0.900	0.928	0.649	0.0	250	4.273
23.016	4.607	732.7	450.2	0.928	0.900	0.754	0.0	255	4.830
23.017	4.484	713.1	457.0	0.900	0.947	0.772	0.0	262	4.744
23.018	5.404	2387.4	618.5	0.947	0.900	1.154	0.0	259	4.577
23.019	4.894	2162.3	618.8	0.900	0.900	1.157	0.0	273	4.252
23.020	3.324	1468.5	619.3	0.900	0.900	1.161	0.0	339	3.190
23.021	4.037	1783.6	621.0	0.900	0.900	1.169	0.0	304	3.692
23.022	3.029	1338.2	624.4	0.900	0.900	1.181	0.0	360	2.980
23.023	3.066	1354.7	685.4	0.900	0.900	1.308	0.0	378	3.075
23.024	1.665	735.5	701.3	0.900	0.900	1.358	0.0	591	1.880
23.025	8.112	3583.7	1025.5	0.900	2.900	2.004	0.0	273	7.048
23.026	1.248	551.5	1106.6	2.900	3.066	2.164	0.0	750	1.259
23.027	1.242	548.6	1133.2	3.066	1.556	2.287	0.0	750	1.253
23.028	1.265	558.7	1129.0	1.556	1.373	2.287	0.0	750	1.276
23.029	5.901	2606.8	1130.6	1.373	0.900	2.302	0.0	345	5.700
23.030	3.945	2509.5	1359.1	0.900	0.900	2.819	0.0	472	4.019
23.031	4.410	2805.7	1339.7	0.900	0.900	2.819	0.0	438	4.364
23.032	3.811	2424.4	1455.8	0.900	0.600	2.819	0.0	504	3.975
24.000	1.913	76.1	29.0	0.900	0.900	0.043	0.0	96	1.787
24.001	1.422	56.5	31.5	0.900	0.900	0.047	0.0	120	1.459

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
24.002	S36	S37	8.833	0.600	50.600	50.400	0.200	44.2	300	5.73	184.5
24.003	S37	S38	25.044	0.600	50.400	49.300	1.100	22.8	300	5.86	182.7
24.004	S38	S39	8.071	0.600	49.300	48.900	0.400	20.2	300	5.90	182.2
24.005	S39	S40	31.415	0.600	48.900	46.776	2.124	14.8	300	6.02	180.4
24.006	S40	S13	16.644	0.600	46.701	46.525	0.176	94.6	375	6.17	178.4
24.000_1	S36D	S36C	12.824	0.600	51.950	51.720	0.230	55.8	150	5.16	185.7
24.001_1	S36C	S36B	15.456	0.600	51.645	51.295	0.350	44.2	225	5.29	184.1
24.002_1	S36B	S36A	33.875	0.600	51.220	50.800	0.420	80.7	300	5.61	180.3
24.003_1	S36A	S36	8.437	0.600	50.800	50.600	0.200	42.2	300	5.67	179.6
25.000	S41	S42	11.514	0.600	47.625	46.975	0.650	17.7	225	5.06	186.9
25.001	S42	S40	30.267	0.600	46.900	46.776	0.124	244.1	300	5.57	180.8
27.002	S45	S46	38.312	0.600	49.501	48.625	0.876	43.7	225	5.32	181.8
27.003	S46	S47	78.775	0.600	48.550	44.075	4.475	17.6	300	5.67	177.5
27.004	S47	S48	25.432	0.600	44.000	43.425	0.575	44.2	375	5.83	176.0
27.007	S50	S51	10.888	0.600	42.538	42.350	0.188	57.9	450	5.97	174.0
27.008	S51	S52	8.004	0.600	42.350	42.250	0.100	80.0	450	6.03	173.2
27.009	S52	S53	13.522	0.600	42.175	42.148	0.027	500.8	525	6.26	170.7
27.010	S53	S19	9.806	0.600	42.148	42.128	0.020	490.3	525	6.42	168.9
28.000	S54	S53	29.797	0.600	44.025	42.523	1.502	19.8	150	5.22	185.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
24.002	2.372	167.7	84.0	0.900	0.900	0.126	0.0	150	2.374
24.003	3.309	233.9	107.6	0.900	0.900	0.163	0.0	143	3.241
24.004	3.515	248.5	125.8	0.900	0.900	0.191	0.0	151	3.524
24.005	4.108	290.4	151.9	0.900	1.424	0.233	0.0	154	4.156
24.006	1.863	205.8	209.5	1.424	0.900	0.325	0.0	317	2.106
24.000_1	1.350	23.8	14.1	0.900	0.900	0.021	0.0	83	1.404
24.001_1	1.973	78.5	23.3	0.900	0.900	0.035	0.0	84	1.727
24.002_1	1.752	123.8	43.7	0.900	0.900	0.067	0.0	123	1.604
24.003_1	2.427	171.6	48.7	0.900	0.900	0.075	0.0	109	2.096
25.000	3.123	124.2	20.3	0.900	0.900	0.030	0.0	61	2.315
25.001	1.002	70.8	47.7	0.900	1.424	0.073	0.0	181	1.073
27.002	1.983	78.8	55.2	0.900	0.900	0.084	0.0	139	2.142
27.003	3.764	266.1	155.2	0.900	0.675	0.242	0.0	165	3.905
27.004	2.730	301.6	173.6	0.675	0.900	0.273	0.0	204	2.821
27.007	2.675	425.5	190.5	0.900	0.900	0.303	0.0	210	2.603
27.008	2.274	361.6	194.0	0.900	0.900	0.310	0.0	235	2.313
27.009	0.994	215.1	202.3	0.900	0.927	0.328	0.0	407	1.123
27.010	1.005	217.5	224.0	0.927	0.947	0.367	0.0	450	1.133
28.000	2.271	40.1	26.1	0.975	0.927	0.039	0.0	88	2.415

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
26.000	S55	S56	14.776	0.600	46.075	45.975	0.100	147.8	225	5.23	184.8
26.001	S56	S57	24.276	0.600	45.975	44.775	1.200	20.2	225	5.37	183.2
26.002	S57	S58	6.914	0.600	44.775	44.375	0.400	17.3	225	5.40	182.8
26.003	S58	S17	4.671	0.600	44.375	44.347	0.028	166.8	225	5.48	181.8
31.000	S59	S60	50.075	0.600	44.300	44.095	0.205	244.3	300	5.83	177.6
31.001	S60	S61	5.851	0.600	44.095	44.071	0.024	243.8	300	5.93	176.5
30.005	S61	S62	9.897	0.600	43.133	43.092	0.041	241.4	375	6.26	172.8
30.006	S62	S63	17.769	0.600	43.092	42.850	0.242	73.4	375	6.40	171.2
30.007	S63	S64	34.750	0.600	42.850	40.698	2.152	16.1	375	6.53	169.6
30.008	S64	S65	8.170	0.600	40.623	40.589	0.034	240.3	450	6.63	169.3
30.009	S65	S66	16.187	0.600	40.589	39.731	0.858	18.9	450	6.69	167.6
30.010	S66	S67	11.612	0.600	39.731	39.692	0.039	297.7	450	6.85	166.8
30.011	S67	S26	13.048	0.600	39.692	39.600	0.092	141.8	450	6.98	166.0
30.000	S68	S69	15.974	0.600	43.625	43.530	0.095	168.1	225	5.26	184.4
30.001	S69	S70	9.747	0.600	43.530	43.472	0.058	168.1	225	5.43	182.5
30.002	S70	S71	9.537	0.600	43.472	43.415	0.057	167.3	225	5.58	180.6
30.003	S71	S72	26.794	0.600	43.340	43.230	0.110	243.6	300	6.03	175.3
30.004	S72	S61	5.280	0.600	43.230	43.208	0.022	240.0	300	6.12	174.4
32.000	S73	S63	35.868	0.600	43.550	43.075	0.475	75.5	150	5.52	181.4

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
26.000	1.073	42.7	33.4	0.900	0.900	0.050	0.0	150	1.183
26.001	2.922	116.2	60.9	0.900	0.900	0.092	0.0	116	2.954
26.002	3.162	125.7	66.1	0.900	0.900	0.100	0.0	116	3.197
26.003	1.009	40.1	65.7	0.900	0.928	0.100	0.0	225	1.028
31.000	1.001	70.8	55.8	0.900	1.305	0.087	0.0	201	1.105
31.001	1.002	70.8	58.0	1.305	1.079	0.091	0.0	207	1.114
30.005	1.162	128.3	126.1	1.942	1.533	0.202	0.0	304	1.316
30.006	2.116	233.7	132.4	1.533	0.975	0.214	0.0	203	2.180
30.007	4.527	500.0	201.7	0.975	1.427	0.329	0.0	165	4.291
30.008	1.307	207.8	247.8	1.427	0.961	0.405	0.0	450	1.323
30.009	4.697	747.0	281.7	0.961	1.219	0.465	0.0	191	4.381
30.010	1.173	186.5	343.0	1.219	1.058	0.569	0.0	450	1.188
30.011	1.705	271.1	360.6	1.058	0.900	0.601	0.0	450	1.727
30.000	1.005	40.0	30.7	0.900	1.369	0.046	0.0	148	1.105
30.001	1.005	40.0	36.3	1.369	1.563	0.055	0.0	168	1.134
30.002	1.008	40.1	40.5	1.563	1.742	0.062	0.0	188	1.143
30.003	1.003	70.9	64.6	1.742	1.870	0.102	0.0	226	1.131
30.004	1.010	71.4	65.5	1.870	1.942	0.104	0.0	228	1.141
32.000	1.158	20.5	19.7	0.900	0.975	0.030	0.0	119	1.315

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
33.000	S74	S75	21.572	0.600	41.425	40.820	0.605	35.7	375	5.12	185.0
33.001	S75	S76	22.232	0.600	40.745	40.667	0.078	285.0	450	5.43	180.6
33.002	S76	S64	7.530	0.600	40.667	40.623	0.044	171.1	450	5.51	179.1
34.000	S77	S78	40.264	0.600	39.900	39.766	0.134	300.5	450	5.57	180.7
34.001	S78	S66	10.625	0.600	39.766	39.731	0.035	303.6	450	5.73	178.9
29.000	S79	S80	28.053	0.600	42.575	41.815	0.760	36.9	225	5.22	185.0
29.001	S80	S81	26.464	0.600	41.815	40.425	1.390	19.0	225	5.36	183.3
29.002	S81	S24	4.921	0.600	40.425	40.225	0.200	24.6	225	5.39	182.9
35.000	S82	S83	35.194	0.600	40.250	39.075	1.175	30.0	225	5.24	184.7
35.001	S83	S84	8.017	0.600	39.000	38.152	0.848	9.5	300	5.27	183.4
35.002	S84	S27	29.064	0.600	37.702	37.050	0.652	44.6	750	5.39	173.7
38.000	S89	S90	36.529	0.600	40.285	38.375	1.910	19.1	225	5.20	185.2
38.001	S90	S91	4.542	0.600	38.300	38.281	0.019	239.1	300	5.28	184.3
38.002	S91	Junction 4	8.220	0.600	38.281	38.248	0.033	249.1	300	5.42	182.6
38.003	Junction 4	S92	11.637	0.600	38.248	38.201	0.047	247.6	300	5.61	180.3
38.004	S92	S93	10.667	0.600	38.201	38.000	0.201	53.1	300	5.69	179.3
38.005	S93	S94	12.675	0.600	38.000	37.600	0.400	31.7	300	5.77	178.4
38.006	S94	Junction 3	27.125	0.600	37.600	36.460	1.140	23.8	300	5.91	176.8
39.000	S95	S96	10.457	0.600	38.725	38.600	0.125	83.7	150	5.16	185.7

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
33.000	3.042	336.0	19.4	0.900	0.900	0.029	0.0	60	1.682
33.001	1.199	190.7	46.3	0.900	1.483	0.071	0.0	151	0.996
33.002	1.551	246.7	46.0	1.483	1.427	0.071	0.0	131	1.197
34.000	1.167	185.7	55.5	0.900	1.384	0.085	0.0	168	1.025
34.001	1.161	184.7	60.1	1.384	1.219	0.093	0.0	176	1.042
29.000	2.160	85.9	41.5	0.900	0.900	0.062	0.0	110	2.142
29.001	3.012	119.8	68.2	0.900	0.900	0.103	0.0	122	3.107
29.002	2.648	105.3	68.1	0.900	0.900	0.103	0.0	132	2.813
35.000	2.399	95.4	49.4	0.900	0.900	0.074	0.0	115	2.418
35.001	5.142	363.4	49.0	0.900	1.748	0.074	0.0	74	3.631
35.002	4.198	1854.4	100.4	1.748	2.900	0.160	0.0	117	2.303
38.000	3.006	119.5	45.5	0.900	0.900	0.068	0.0	96	2.808
38.001	1.012	71.6	45.3	0.900	0.919	0.068	0.0	174	1.070
38.002	0.991	70.1	70.0	0.919	0.902	0.106	0.0	247	1.124
38.003	0.994	70.3	75.6	0.902	0.899	0.116	0.0	300	1.007
38.004	2.163	152.9	101.1	0.899	0.900	0.156	0.0	178	2.305
38.005	2.802	198.1	100.6	0.900	0.900	0.156	0.0	151	2.813
38.006	3.236	228.7	149.5	0.900	0.900	0.234	0.0	177	3.442
39.000	1.100	19.4	6.7	0.900	0.900	0.010	0.0	61	0.999

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
39.001	S96	Junction 4	5.991	0.600	38.600	38.398	0.202	29.7	150	5.21	185.1
40.000	S97	Junction 3	21.462	0.600	36.447	36.160	0.287	74.8	600	5.13	186.1
38.007	Junction 3	S31	44.157	0.600	36.160	35.570	0.590	74.8	600	6.17	170.3
Dummy Pipe	HW2	Dummy 1	1.000	0.600	32.566	32.566	0.000	0.0	150	9.51	139.9
41.000	R1	R2	4.221	0.015	41.400	41.200	0.200	21.1	200	5.02	187.3
41.001	R2	R3	3.345	0.015	41.200	41.100	0.100	33.5	200	5.04	187.1
41.002	R3	R4	35.416	0.015	41.100	39.900	1.200	29.5	200	5.25	184.6
41.003	R4	R5	16.151	0.015	39.900	39.400	0.500	32.3	200	5.35	183.4
41.004	R5	R6	38.719	0.015	39.400	38.300	1.100	35.2	200	5.60	180.5
41.005	R6	R7	32.308	0.015	38.300	37.400	0.900	35.9	200	5.81	178.0
41.006	R7	R8	49.020	0.015	37.400	36.300	1.100	44.6	200	6.16	173.9
41.007	R8	R9	10.249	0.015	36.300	36.030	0.270	38.0	200	6.23	173.1
41.008	R9	R10	14.397	0.015	36.030	35.810	0.220	65.4	200	6.36	171.7
41.009	R10	R11	6.614	0.015	35.810	35.760	0.050	132.3	200	6.44	170.8
41.010	R11	R12	16.339	0.015	35.760	35.390	0.370	44.2	200	6.56	169.5
41.011	R12	R13	3.939	0.015	35.390	35.360	0.030	131.3	200	6.60	169.0
41.012	R13	R14	14.350	0.015	35.360	35.020	0.340	42.2	200	6.70	166.9

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
39.001	1.855	32.8	6.7	0.900	0.902	0.010	0.0	46	1.463
40.000	2.818	796.7	170.2	1.353	0.900	0.253	0.0	187	2.265
38.007	2.817	796.4	299.7	0.900	0.900	0.487	0.0	255	2.627
Dummy Pipe	1.000	17.7	3156.5	1.350	1.084	6.243	0.0	0	∞
41.000	3.354	335.4	4.1	0.000	0.000	0.006	0.0	11	0.711
41.001	2.664	266.4	5.4	0.000	0.000	0.008	0.0	16	0.703
41.002	2.836	283.6	16.0	0.000	0.000	0.024	0.0	29	1.083
41.003	2.711	271.1	25.2	0.000	0.000	0.038	0.0	40	1.247
41.004	2.597	259.7	39.1	0.000	0.000	0.060	0.0	55	1.424
41.005	2.572	257.2	59.8	0.000	0.000	0.093	0.0	73	1.639
41.006	2.308	230.8	76.7	0.000	0.000	0.122	0.0	93	1.657
41.007	2.501	250.1	80.7	0.000	0.000	0.129	0.0	91	1.780
41.008	1.905	190.5	90.6	0.000	0.000	0.146	0.0	118	1.534
41.009	1.340	134.0	92.6	0.000	0.000	0.150	0.0	154	1.208
41.010	2.319	231.9	100.5	0.000	0.000	0.164	0.0	111	1.810
41.011	1.345	134.5	118.5	0.000	0.000	0.194	0.0	182	1.299
41.012	2.372	237.2	117.0	0.000	0.000	0.194	0.0	121	1.933

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	14.145	44.2	150	Circular	50.915	49.790	0.975	50.595	49.470	0.975
1.001	10.876	167.3	225	Circular	50.595	49.395	0.975	50.600	49.330	1.045
1.002	15.797	166.3	225	Circular	50.600	49.330	1.045	50.400	49.235	0.940
1.003	9.467	157.8	300	Circular	50.400	49.160	0.940	50.300	49.100	0.900
1.004	8.477	58.9	300	Circular	50.300	49.100	0.900	50.150	48.956	0.894
1.005	13.808	59.8	300	Circular	50.150	48.956	0.894	50.000	48.725	0.975
1.006	6.689	123.9	375	Circular	50.000	48.625	1.000	49.900	48.571	0.954
1.007	18.283	125.2	375	Circular	49.900	48.571	0.954	49.700	48.425	0.900
1.008	13.882	69.4	375	Circular	49.700	48.425	0.900	49.500	48.225	0.900
1.009	7.901	79.0	375	Circular	49.500	48.225	0.900	49.400	48.125	0.900
1.010	8.154	27.2	375	Circular	49.400	48.125	0.900	49.100	47.825	0.900
1.011	23.216	25.8	375	Circular	49.100	47.825	0.900	48.200	46.925	0.900
1.012	8.797	9.0	375	Circular	48.200	46.925	0.900	48.000	45.950	1.675
1.013	19.330	495.6	450	Circular	48.000	45.875	1.675	47.115	45.836	0.829
1.014	26.058	20.3	450	Circular	47.115	45.836	0.829	45.900	44.550	0.900
1.015	27.654	166.6	600	Circular	45.900	44.400	0.900	46.200	44.234	1.366
1.016	10.435	168.3	600	Circular	46.200	44.234	1.366	45.900	44.172	1.128
1.017	9.274	165.6	600	Circular	45.900	44.172	1.128	45.700	44.116	0.984
1.018	10.929	50.6	600	Circular	45.700	44.116	0.984	45.400	43.900	0.900
1.019	10.374	34.6	600	Circular	45.400	43.900	0.900	45.100	43.600	0.900
1.020	9.265	30.9	600	Circular	45.100	43.600	0.900	44.800	43.300	0.900
1.021	9.482	47.4	600	Circular	44.800	43.300	0.900	44.600	43.100	0.900
1.022	8.089	32.4	600	Circular	44.600	43.100	0.900	44.350	42.850	0.900
1.023	8.376	33.5	600	Circular	44.350	42.850	0.900	44.100	42.600	0.900
1.024	12.669	21.1	600	Circular	44.100	42.600	0.900	43.500	42.000	0.900

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S98	1200	Manhole	Adoptable	S99	1200	Manhole	Adoptable
1.001	S99	1200	Manhole	Adoptable	S100	1200	Manhole	Adoptable
1.002	S100	1200	Manhole	Adoptable	S101	1200	Manhole	Adoptable
1.003	S101	1200	Manhole	Adoptable	S102	1200	Manhole	Adoptable
1.004	S102	1200	Manhole	Adoptable	Junction 1		Junction	
1.005	Junction 1		Junction		S103	1350	Manhole	Adoptable
1.006	S103	1350	Manhole	Adoptable	Junction 2		Junction	
1.007	Junction 2		Junction		S104	1350	Manhole	Adoptable
1.008	S104	1350	Manhole	Adoptable	S105	1350	Manhole	Adoptable
1.009	S105	1350	Manhole	Adoptable	S106	1350	Manhole	Adoptable
1.010	S106	1350	Manhole	Adoptable	S107	1350	Manhole	Adoptable
1.011	S107	1350	Manhole	Adoptable	S108	1350	Manhole	Adoptable
1.012	S108	1350	Manhole	Adoptable	S109	1350	Manhole	Adoptable
1.013	S109	1350	Manhole	Adoptable	S110	1350	Manhole	Adoptable
1.014	S110	1350	Manhole	Adoptable	S111	1500	Manhole	Adoptable
1.015	S111	1500	Manhole	Adoptable	S112	1500	Manhole	Adoptable
1.016	S112	1500	Manhole	Adoptable	S113	1500	Manhole	Adoptable
1.017	S113	1500	Manhole	Adoptable	S114	1500	Manhole	Adoptable
1.018	S114	1500	Manhole	Adoptable	S115	1500	Manhole	Adoptable
1.019	S115	1500	Manhole	Adoptable	S116	1500	Manhole	Adoptable
1.020	S116	1500	Manhole	Adoptable	S117	1500	Manhole	Adoptable
1.021	S117	1500	Manhole	Adoptable	S118	1500	Manhole	Adoptable
1.022	S118	1500	Manhole	Adoptable	S119	1500	Manhole	Adoptable
1.023	S119	1500	Manhole	Adoptable	S120	1500	Manhole	Adoptable
1.024	S120	1500	Manhole	Adoptable	S121	1500	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.025	6.470	16.2	600	Circular	43.500	42.000	0.900	43.100	41.600	0.900
1.026	34.723	20.4	600	Circular	43.100	41.600	0.900	41.400	39.900	0.900
1.027	11.769	26.2	600	Circular	41.400	39.900	0.900	40.950	39.450	0.900
1.028	13.458	29.9	600	Circular	40.950	39.450	0.900	40.500	39.000	0.900
1.029	8.522	28.4	600	Circular	40.500	39.000	0.900	40.200	38.700	0.900
1.030	9.142	45.7	600	Circular	40.200	38.700	0.900	40.000	38.500	0.900
1.031	16.760	33.5	600	Circular	40.000	38.500	0.900	39.500	38.000	0.900
1.032	16.695	37.2	600	Circular	39.500	38.000	0.900	39.100	37.551	0.949
1.033	55.907	27.3	750	Circular	39.100	37.401	0.949	37.000	35.350	0.900
1.034	14.239	18.0	750	Circular	37.000	35.350	0.900	36.210	34.560	0.900
1.035	25.733	24.9	750	Circular	36.210	34.560	0.900	35.300	33.526	1.024
1.036	67.431	218.2	750	Twin Pipe	35.300	33.526	1.024	35.860	33.217	1.893
1.037	66.501	115.7	750	Twin Pipe	35.860	33.217	1.893	33.800	32.642	0.408
1.038	13.550	178.3	750	Twin Pipe	33.800	32.642	0.408	34.066	32.566	0.750
28.003	18.120	22.3	375	Circular	44.700	43.425	0.900	43.888	42.613	0.900
2.000	11.754	67.9	225	Circular	50.810	49.685	0.900	50.637	49.512	0.900
2.001	11.495	41.5	225	Circular	50.637	49.512	0.900	50.400	49.235	0.940
7.000	17.167	81.7	225	Circular	50.250	49.125	0.900	50.040	48.915	0.900
7.001	7.939	8.0	225	Circular	50.040	48.915	0.900	49.050	47.925	0.900
7.002	12.467	31.2	225	Circular	49.050	47.175	1.650	47.900	46.775	0.900
3.000	23.392	42.1	225	Circular	50.900	49.775	0.900	50.345	49.220	0.900
3.001	6.778	35.9	225	Circular	50.345	49.220	0.900	50.150	49.031	0.894

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.025	S121	1500	Manhole	Adoptable	S122	1500	Manhole	Adoptable
1.026	S122	1500	Manhole	Adoptable	S123	1500	Manhole	Adoptable
1.027	S123	1500	Manhole	Adoptable	S124	1500	Manhole	Adoptable
1.028	S124	1500	Manhole	Adoptable	S125	1500	Manhole	Adoptable
1.029	S125	1500	Manhole	Adoptable	S126	1500	Manhole	Adoptable
1.030	S126	1500	Manhole	Adoptable	S127	1500	Manhole	Adoptable
1.031	S127	1500	Manhole	Adoptable	S128	1500	Manhole	Adoptable
1.032	S128	1500	Manhole	Adoptable	S129	1500	Manhole	Adoptable
1.033	S129	1500	Manhole	Adoptable	S130	1500	Manhole	Adoptable
1.034	S130	1500	Manhole	Adoptable	S131	1500	Manhole	Adoptable
1.035	S131	1500	Manhole	Adoptable	S132	2400	Manhole	Adoptable
1.036	S132	2400	Manhole	Adoptable	S133	2400	Manhole	Adoptable
1.037	S133	2400	Manhole	Adoptable	S134	2400	Manhole	Adoptable
1.038	S134	2400	Manhole	Adoptable	HW2		Junction	
28.003	S48	1350	Manhole	Adoptable	S50	1350	Manhole	Adoptable
2.000	S135	1200	Manhole	Adoptable	S136	1200	Manhole	Adoptable
2.001	S136	1200	Manhole	Adoptable	S101	1200	Manhole	Adoptable
7.000	S138	1200	Manhole	Adoptable	S137	1200	Manhole	Adoptable
7.001	S137	1200	Manhole	Adoptable	S137A	1200	Manhole	Adoptable
7.002	S137A	1200	Manhole	Adoptable	S147A	1350	Manhole	Adoptable
3.000	S139	1200	Manhole	Adoptable	S140	1200	Manhole	Adoptable
3.001	S140	1200	Manhole	Adoptable	Junction 1		Junction	

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
4.000	19.531	52.8	225	Circular	50.450	49.325	0.900	50.080	48.955	0.900
4.001	7.145	30.5	225	Circular	50.080	48.955	0.900	49.900	48.721	0.954
5.000	18.073	36.1	225	Circular	50.300	49.175	0.900	49.800	48.675	0.900
5.001	7.071	70.7	225	Circular	49.800	48.675	0.900	49.700	48.575	0.900
6.000	18.209	26.0	225	Circular	50.300	49.175	0.900	49.600	48.475	0.900
6.001	5.866	29.3	225	Circular	49.600	48.475	0.900	49.400	48.275	0.900
8.000	28.612	95.4	450	Circular	48.200	46.850	0.900	47.900	46.550	0.900
7.003	28.387	81.1	450	Circular	47.900	46.550	0.900	47.550	46.200	0.900
7.004	59.971	184.5	450	Circular	47.550	46.200	0.900	48.000	45.875	1.675
10.000	13.868	10.3	225	Circular	44.600	43.475	0.900	44.200	42.125	1.850
9.001	75.089	500.6	600	Circular	44.200	41.750	1.850	43.100	41.600	0.900
9.000	22.378	63.9	225	Circular	43.600	42.475	0.900	44.200	42.125	1.850
11.000	24.026	37.0	300	Circular	41.500	40.300	0.900	40.850	39.650	0.900
11.001	15.819	70.3	375	Circular	40.850	39.575	0.900	40.700	39.350	0.975
11.002	7.377	388.3	450	Circular	40.700	39.275	0.975	40.650	39.256	0.944
11.003	5.994	56.5	450	Circular	40.650	39.256	0.944	40.500	39.150	0.900
12.000	57.015	71.3	600	Circular	39.900	38.400	0.900	39.100	37.600	0.900
12.001	24.655	503.2	600	Circular	39.100	37.600	0.900	39.100	37.551	0.949

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
4.000	S141	1200	Manhole	Adoptable	S142	1200	Manhole	Adoptable
4.001	S142	1200	Manhole	Adoptable	Junction 2		Junction	
5.000	S143	1200	Manhole	Adoptable	S144	1200	Manhole	Adoptable
5.001	S144	1200	Manhole	Adoptable	S104	1350	Manhole	Adoptable
6.000	S145	1200	Manhole	Adoptable	S146	1200	Manhole	Adoptable
6.001	S146	1200	Manhole	Adoptable	S106	1350	Manhole	Adoptable
8.000	S147	1350	Manhole	Adoptable	S147A	1350	Manhole	Adoptable
7.003	S147A	1350	Manhole	Adoptable	S148	1200	Manhole	Adoptable
7.004	S148	1200	Manhole	Adoptable	S109	1350	Manhole	Adoptable
10.000	S149	1200	Manhole	Adoptable	S150	1500	Manhole	Adoptable
9.001	S150	1500	Manhole	Adoptable	S122	1500	Manhole	Adoptable
9.000	S151	1200	Manhole	Adoptable	S150	1500	Manhole	Adoptable
11.000	S152	1200	Manhole	Adoptable	S153	1350	Manhole	Adoptable
11.001	S153	1350	Manhole	Adoptable	S154	1350	Manhole	Adoptable
11.002	S154	1350	Manhole	Adoptable	S155	1350	Manhole	Adoptable
11.003	S155	1350	Manhole	Adoptable	S125	1500	Manhole	Adoptable
12.000	S158	1500	Manhole	Adoptable	S159	1500	Manhole	Adoptable
12.001	S159	1500	Manhole	Adoptable	S129	1500	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
13.000	39.635	24.8	225	Circular	40.950	39.825	0.900	39.350	38.225	0.900
13.001	7.655	30.6	225	Circular	39.350	38.225	0.900	39.100	37.975	0.900
14.000_1	13.349	150.0	450	Circular	39.100	37.750	0.900	39.200	37.661	1.089
14.001_1	7.235	150.7	450	Circular	39.200	37.661	1.089	39.050	37.613	0.987
14.002	6.233	98.9	450	Circular	39.050	37.613	0.987	38.900	37.550	0.900
14.000	26.248	21.9	450	Circular	38.900	37.550	0.900	38.000	36.350	1.200
14.001	68.213	97.4	600	Circular	38.000	36.200	1.200	37.000	35.500	0.900
15.000	14.984	149.8	300	Circular	37.800	36.600	0.900	38.000	36.500	1.200
16.000	8.369	167.4	225	Circular	41.400	40.275	0.900	41.350	40.225	0.900
16.001	10.248	168.0	225	Circular	41.350	40.225	0.900	41.300	40.164	0.911
16.002	17.719	249.6	300	Circular	41.300	40.089	0.911	41.250	40.018	0.932
16.003	5.290	44.8	300	Circular	41.250	40.018	0.932	41.100	39.900	0.900
16.004	12.162	48.6	300	Circular	41.100	39.900	0.900	40.850	39.650	0.900
16.005	44.155	23.9	300	Circular	40.850	39.650	0.900	39.000	37.800	0.900
16.006	8.673	24.8	300	Circular	39.000	37.800	0.900	38.650	37.450	0.900
16.007	10.594	23.5	300	Circular	38.650	37.450	0.900	38.200	37.000	0.900
16.008	7.658	51.1	375	Circular	38.200	36.925	0.900	38.050	36.775	0.900
16.009	7.100	47.3	375	Circular	38.050	36.775	0.900	37.900	36.625	0.900
16.010	22.986	11.8	375	Circular	37.900	36.625	0.900	37.300	34.676	2.249
16.011	35.247	503.5	600	Circular	37.300	34.451	2.249	36.400	34.381	1.419
16.012	6.272	12.5	600	Circular	36.400	34.381	1.419	36.250	33.878	1.772
16.013	6.029	502.4	750	Circular	36.250	33.728	1.772	36.100	33.716	1.634
16.014	38.354	498.1	750	Circular	36.100	33.716	1.634	35.800	33.639	1.411

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
13.000	S157	1200	Manhole	Adoptable	S156	1200	Manhole	Adoptable
13.001	S156	1200	Manhole	Adoptable	S159	1500	Manhole	Adoptable
14.000_1	S160A	1200	Manhole	Adoptable	S160B	1200	Manhole	Adoptable
14.001_1	S160B	1200	Manhole	Adoptable	S160C	1200	Manhole	Adoptable
14.002	S160C	1200	Manhole	Adoptable	S160	1200	Manhole	Adoptable
14.000	S160	1200	Manhole	Adoptable	S161	1200	Manhole	Adoptable
14.001	S161	1200	Manhole	Adoptable	S130	1500	Manhole	Adoptable
15.000	S162	1200	Manhole	Adoptable	S161	1200	Manhole	Adoptable
16.000	S163	1200	Manhole	Adoptable	S164	1200	Manhole	Adoptable
16.001	S164	1200	Manhole	Adoptable	S165	1200	Manhole	Adoptable
16.002	S165	1200	Manhole	Adoptable	S166	1200	Manhole	Adoptable
16.003	S166	1200	Manhole	Adoptable	S167	1200	Manhole	Adoptable
16.004	S167	1200	Manhole	Adoptable	S168	1200	Manhole	Adoptable
16.005	S168	1200	Manhole	Adoptable	S169	1200	Manhole	Adoptable
16.006	S169	1200	Manhole	Adoptable	S170	1200	Manhole	Adoptable
16.007	S170	1200	Manhole	Adoptable	S171	1350	Manhole	Adoptable
16.008	S171	1350	Manhole	Adoptable	S172	1350	Manhole	Adoptable
16.009	S172	1350	Manhole	Adoptable	S173	1350	Manhole	Adoptable
16.010	S173	1350	Manhole	Adoptable	S174	1350	Manhole	Adoptable
16.011	S174	1350	Manhole	Adoptable	S175	1350	Manhole	Adoptable
16.012	S175	1350	Manhole	Adoptable	S176	1500	Manhole	Adoptable
16.013	S176	1500	Manhole	Adoptable	S177	1500	Manhole	Adoptable
16.014	S177	1500	Manhole	Adoptable	S178	1500	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
16.015	13.730	508.5	750	Circular	35.800	33.639	1.411	36.000	33.612	1.638
16.016	33.985	499.8	750	Circular	36.000	33.612	1.638	35.600	33.544	1.306
16.017	17.631	503.7	750	Circular	35.600	33.544	1.306	35.300	33.509	1.041
22.000	17.730	20.9	225	Circular	41.000	39.875	0.900	40.150	39.025	0.900
22.001	35.564	33.9	300	Circular	40.150	38.950	0.900	39.100	37.900	0.900
22.002	24.522	47.2	300	Circular	39.100	37.900	0.900	38.580	37.380	0.900
22.003	10.210	127.6	300	Circular	38.580	37.380	0.900	38.500	37.300	0.900
22.004	33.825	14.4	300	Circular	38.500	37.300	0.900	36.150	34.950	0.900
22.005	6.917	7.9	300	Circular	36.150	34.950	0.900	36.000	34.079	1.621
17.000	15.940	79.7	225	Circular	39.100	37.975	0.900	38.900	37.775	0.900
17.001	16.108	167.8	225	Circular	38.900	37.725	0.950	38.800	37.629	0.946
17.002	6.753	125.1	225	Circular	38.800	37.629	0.946	38.700	37.575	0.900
17.003	10.895	87.2	300	Circular	38.700	37.500	0.900	38.500	37.375	0.825
17.004	10.689	28.5	300	Circular	38.500	37.375	0.825	38.200	37.000	0.900
18.000	8.336	166.7	225	Circular	38.900	37.775	0.900	38.900	37.725	0.950
19.000	35.011	87.5	225	Circular	39.400	37.975	1.200	38.700	37.575	0.900
20.000	20.781	167.6	450	Circular	36.200	34.850	0.900	37.200	34.726	2.024
20.001	13.166	166.7	450	Circular	37.200	34.726	2.024	37.400	34.647	2.303
20.002	9.887	214.9	450	Circular	37.400	34.647	2.303	37.300	34.601	2.249
21.000	29.421	150.1	450	Circular	35.600	34.250	0.900	36.200	34.054	1.696
21.001	5.260	202.3	450	Circular	36.200	34.054	1.696	36.250	34.028	1.772

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
16.015	S178	1500	Manhole	Adoptable	S179	1500	Manhole	Adoptable
16.016	S179	1500	Manhole	Adoptable	S180	1500	Manhole	Adoptable
16.017	S180	1500	Manhole	Adoptable	S132	2400	Manhole	Adoptable
22.000	S181	1200	Manhole	Adoptable	S182	1200	Manhole	Adoptable
22.001	S182	1200	Manhole	Adoptable	S183	1200	Manhole	Adoptable
22.002	S183	1200	Manhole	Adoptable	S184	1200	Manhole	Adoptable
22.003	S184	1200	Manhole	Adoptable	S185	1200	Manhole	Adoptable
22.004	S185	1200	Manhole	Adoptable	S186	1200	Manhole	Adoptable
22.005	S186	1200	Manhole	Adoptable	S179	1500	Manhole	Adoptable
17.000	S187	1200	Manhole	Adoptable	S188	1200	Manhole	Adoptable
17.001	S188	1200	Manhole	Adoptable	S189	1200	Manhole	Adoptable
17.002	S189	1200	Manhole	Adoptable	S190	1200	Manhole	Adoptable
17.003	S190	1200	Manhole	Adoptable	S191	1200	Manhole	Adoptable
17.004	S191	1200	Manhole	Adoptable	S171	1350	Manhole	Adoptable
18.000	S192	1200	Manhole	Adoptable	S188	1200	Manhole	Adoptable
19.000	S193	1200	Manhole	Adoptable	S190	1200	Manhole	Adoptable
20.000	S194	1200	Manhole	Adoptable	S195	1200	Manhole	Adoptable
20.001	S195	1200	Manhole	Adoptable	S196	1200	Manhole	Adoptable
20.002	S196	1200	Manhole	Adoptable	S174	1350	Manhole	Adoptable
21.000	S197	1200	Manhole	Adoptable	S198	1200	Manhole	Adoptable
21.001	S198	1200	Manhole	Adoptable	S176	1500	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
23.000	30.085	167.1	225	Circular	51.900	50.775	0.900	52.836	50.595	2.016
23.001	7.188	167.2	225	Circular	52.836	50.595	2.016	53.000	50.552	2.223
23.002	6.254	169.0	225	Circular	53.000	50.552	2.223	52.845	50.515	2.105
23.003	14.689	244.8	300	Circular	52.845	50.440	2.105	52.403	50.380	1.723
23.004	4.398	244.3	300	Circular	52.403	50.380	1.723	52.300	50.362	1.638
23.005	41.758	48.4	300	Circular	52.300	50.362	1.638	50.700	49.500	0.900
23.006	10.816	27.0	300	Circular	50.700	49.500	0.900	50.300	49.100	0.900
23.007	8.272	20.7	300	Circular	50.300	49.100	0.900	49.900	48.700	0.900
23.008	10.561	26.4	300	Circular	49.900	48.700	0.900	49.500	48.300	0.900
23.009	15.513	25.9	300	Circular	49.500	48.300	0.900	48.900	47.700	0.900
23.010	14.817	21.2	300	Circular	48.900	47.700	0.900	48.200	47.000	0.900
23.011	8.538	21.3	300	Circular	48.200	47.000	0.900	47.800	46.600	0.900
23.012	21.768	19.8	450	Circular	47.800	46.450	0.900	46.700	45.350	0.900
23.013	11.976	20.0	450	Circular	46.700	45.350	0.900	46.100	44.750	0.900
23.014	8.511	28.4	450	Circular	46.100	44.750	0.900	45.800	44.450	0.900
23.015	8.092	24.7	450	Circular	45.800	44.450	0.900	45.500	44.122	0.928
23.016	7.295	19.6	450	Circular	45.500	44.122	0.928	45.100	43.750	0.900
23.017	32.017	20.7	450	Circular	45.100	43.750	0.900	43.600	42.203	0.947
23.018	39.132	26.9	750	Circular	43.600	41.903	0.947	42.100	40.450	0.900
23.019	6.563	32.8	750	Circular	42.100	40.450	0.900	41.900	40.250	0.900
23.020	7.097	71.0	750	Circular	41.900	40.250	0.900	41.800	40.150	0.900
23.021	14.452	48.2	750	Circular	41.800	40.150	0.900	41.500	39.850	0.900
23.022	12.809	85.4	750	Circular	41.500	39.850	0.900	41.350	39.700	0.900
23.023	25.002	83.3	750	Circular	41.350	39.700	0.900	41.050	39.400	0.900

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
23.000	S1	1200	Manhole	Adoptable	S2	1200	Manhole	Adoptable
23.001	S2	1200	Manhole	Adoptable	S3	1200	Manhole	Adoptable
23.002	S3	1200	Manhole	Adoptable	S4	1200	Manhole	Adoptable
23.003	S4	1200	Manhole	Adoptable	S5	1200	Manhole	Adoptable
23.004	S5	1200	Manhole	Adoptable	S6	1200	Manhole	Adoptable
23.005	S6	1200	Manhole	Adoptable	S7	1200	Manhole	Adoptable
23.006	S7	1200	Manhole	Adoptable	S8	1200	Manhole	Adoptable
23.007	S8	1200	Manhole	Adoptable	S9	1200	Manhole	Adoptable
23.008	S9	1200	Manhole	Adoptable	S10	1200	Manhole	Adoptable
23.009	S10	1200	Manhole	Adoptable	S11	1200	Manhole	Adoptable
23.010	S11	1200	Manhole	Adoptable	S12	1200	Manhole	Adoptable
23.011	S12	1200	Manhole	Adoptable	S13	1350	Manhole	Adoptable
23.012	S13	1350	Manhole	Adoptable	S14	1350	Manhole	Adoptable
23.013	S14	1350	Manhole	Adoptable	S15	1350	Manhole	Adoptable
23.014	S15	1350	Manhole	Adoptable	S16	1350	Manhole	Adoptable
23.015	S16	1350	Manhole	Adoptable	S17	1350	Manhole	Adoptable
23.016	S17	1350	Manhole	Adoptable	S18	1350	Manhole	Adoptable
23.017	S18	1350	Manhole	Adoptable	S19	1500	Manhole	Adoptable
23.018	S19	1500	Manhole	Adoptable	S20	1500	Manhole	Adoptable
23.019	S20	1500	Manhole	Adoptable	S21	1500	Manhole	Adoptable
23.020	S21	1500	Manhole	Adoptable	S22	1500	Manhole	Adoptable
23.021	S22	1500	Manhole	Adoptable	S23	1500	Manhole	Adoptable
23.022	S23	1500	Manhole	Adoptable	S24	1500	Manhole	Adoptable
23.023	S24	1500	Manhole	Adoptable	S25	1800	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
23.024	28.074	280.7	750	Circular	41.050	39.400	0.900	40.950	39.300	0.900
23.025	26.938	12.0	750	Circular	40.950	39.300	0.900	40.700	37.050	2.900
23.026	7.950	496.9	750	Circular	40.700	37.050	2.900	40.850	37.034	3.066
23.027	45.187	502.1	750	Circular	40.850	37.034	3.066	39.250	36.944	1.556
23.028	5.811	484.3	750	Circular	39.250	36.944	1.556	39.055	36.932	1.373
23.029	34.170	22.6	750	Circular	39.055	36.932	1.373	37.070	35.420	0.900
23.030	76.458	63.2	900	Circular	37.070	35.270	0.900	35.860	34.060	0.900
23.031	66.267	50.6	900	Circular	35.860	34.060	0.900	34.550	32.750	0.900
23.032	12.454	67.7	900	Circular	34.550	32.750	0.900	34.066	32.566	0.600
24.000	9.397	47.0	225	Circular	52.100	50.975	0.900	51.900	50.775	0.900
24.001	8.466	84.7	225	Circular	51.900	50.775	0.900	51.800	50.675	0.900
24.002	8.833	44.2	300	Circular	51.800	50.600	0.900	51.600	50.400	0.900
24.003	25.044	22.8	300	Circular	51.600	50.400	0.900	50.500	49.300	0.900
24.004	8.071	20.2	300	Circular	50.500	49.300	0.900	50.100	48.900	0.900
24.005	31.415	14.8	300	Circular	50.100	48.900	0.900	48.500	46.776	1.424
24.006	16.644	94.6	375	Circular	48.500	46.701	1.424	47.800	46.525	0.900
24.000_1	12.824	55.8	150	Circular	53.000	51.950	0.900	52.770	51.720	0.900
24.001_1	15.456	44.2	225	Circular	52.770	51.645	0.900	52.420	51.295	0.900
24.002_1	33.875	80.7	300	Circular	52.420	51.220	0.900	52.000	50.800	0.900
24.003_1	8.437	42.2	300	Circular	52.000	50.800	0.900	51.800	50.600	0.900
25.000	11.514	17.7	225	Circular	48.750	47.625	0.900	48.100	46.975	0.900
25.001	30.267	244.1	300	Circular	48.100	46.900	0.900	48.500	46.776	1.424

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
23.024	S25	1800	Manhole	Adoptable	S26	1800	Manhole	Adoptable
23.025	S26	1800	Manhole	Adoptable	S27	2025	Manhole	Adoptable
23.026	S27	2025	Manhole	Adoptable	S28	1800	Manhole	Adoptable
23.027	S28	1800	Manhole	Adoptable	S29	1800	Manhole	Adoptable
23.028	S29	1800	Manhole	Adoptable	S30	1800	Manhole	Adoptable
23.029	S30	1800	Manhole	Adoptable	S31	1800	Manhole	Adoptable
23.030	S31	1800	Manhole	Adoptable	S32	1800	Manhole	Adoptable
23.031	S32	1800	Manhole	Adoptable	S33	1800	Manhole	Adoptable
23.032	S33	1800	Manhole	Adoptable	HW2		Junction	
24.000	S34	1200	Manhole	Adoptable	S35	1200	Manhole	Adoptable
24.001	S35	1200	Manhole	Adoptable	S36	1200	Manhole	Adoptable
24.002	S36	1200	Manhole	Adoptable	S37	1200	Manhole	Adoptable
24.003	S37	1200	Manhole	Adoptable	S38	1200	Manhole	Adoptable
24.004	S38	1200	Manhole	Adoptable	S39	1200	Manhole	Adoptable
24.005	S39	1200	Manhole	Adoptable	S40	1350	Manhole	Adoptable
24.006	S40	1350	Manhole	Adoptable	S13	1350	Manhole	Adoptable
24.000_1	S36D	1200	Manhole	Adoptable	S36C	1200	Manhole	Adoptable
24.001_1	S36C	1200	Manhole	Adoptable	S36B	1200	Manhole	Adoptable
24.002_1	S36B	1200	Manhole	Adoptable	S36A	1200	Manhole	Adoptable
24.003_1	S36A	1200	Manhole	Adoptable	S36	1200	Manhole	Adoptable
25.000	S41	1200	Manhole	Adoptable	S42	1200	Manhole	Adoptable
25.001	S42	1200	Manhole	Adoptable	S40	1350	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
27.002	38.312	43.7	225	Circular	50.626	49.501	0.900	49.750	48.625	0.900
27.003	78.775	17.6	300	Circular	49.750	48.550	0.900	45.050	44.075	0.675
27.004	25.432	44.2	375	Circular	45.050	44.000	0.675	44.700	43.425	0.900
27.007	10.888	57.9	450	Circular	43.888	42.538	0.900	43.700	42.350	0.900
27.008	8.004	80.0	450	Circular	43.700	42.350	0.900	43.600	42.250	0.900
27.009	13.522	500.8	525	Circular	43.600	42.175	0.900	43.600	42.148	0.927
27.010	9.806	490.3	525	Circular	43.600	42.148	0.927	43.600	42.128	0.947
28.000	29.797	19.8	150	Circular	45.150	44.025	0.975	43.600	42.523	0.927
26.000	14.776	147.8	225	Circular	47.200	46.075	0.900	47.100	45.975	0.900
26.001	24.276	20.2	225	Circular	47.100	45.975	0.900	45.900	44.775	0.900
26.002	6.914	17.3	225	Circular	45.900	44.775	0.900	45.500	44.375	0.900
26.003	4.671	166.8	225	Circular	45.500	44.375	0.900	45.500	44.347	0.928
31.000	50.075	244.3	300	Circular	45.500	44.300	0.900	45.700	44.095	1.305
31.001	5.851	243.8	300	Circular	45.700	44.095	1.305	45.450	44.071	1.079
30.005	9.897	241.4	375	Circular	45.450	43.133	1.942	45.000	43.092	1.533
30.006	17.769	73.4	375	Circular	45.000	43.092	1.533	44.200	42.850	0.975
30.007	34.750	16.1	375	Circular	44.200	42.850	0.975	42.500	40.698	1.427
30.008	8.170	240.3	450	Circular	42.500	40.623	1.427	42.000	40.589	0.961
30.009	16.187	18.9	450	Circular	42.000	40.589	0.961	41.400	39.731	1.219
30.010	11.612	297.7	450	Circular	41.400	39.731	1.219	41.200	39.692	1.058

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
27.002	S45	1200	Manhole	Adoptable	S46	1200	Manhole	Adoptable
27.003	S46	1200	Manhole	Adoptable	S47	1200	Manhole	Adoptable
27.004	S47	1200	Manhole	Adoptable	S48	1350	Manhole	Adoptable
27.007	S50	1350	Manhole	Adoptable	S51	1350	Manhole	Adoptable
27.008	S51	1350	Manhole	Adoptable	S52	1500	Manhole	Adoptable
27.009	S52	1500	Manhole	Adoptable	S53	1500	Manhole	Adoptable
27.010	S53	1500	Manhole	Adoptable	S19	1500	Manhole	Adoptable
28.000	S54	1200	Manhole	Adoptable	S53	1500	Manhole	Adoptable
26.000	S55	1200	Manhole	Adoptable	S56	1200	Manhole	Adoptable
26.001	S56	1200	Manhole	Adoptable	S57	1200	Manhole	Adoptable
26.002	S57	1200	Manhole	Adoptable	S58	1200	Manhole	Adoptable
26.003	S58	1200	Manhole	Adoptable	S17	1350	Manhole	Adoptable
31.000	S59	1200	Manhole	Adoptable	S60	1200	Manhole	Adoptable
31.001	S60	1200	Manhole	Adoptable	S61	1350	Manhole	Adoptable
30.005	S61	1350	Manhole	Adoptable	S62	1350	Manhole	Adoptable
30.006	S62	1350	Manhole	Adoptable	S63	1350	Manhole	Adoptable
30.007	S63	1350	Manhole	Adoptable	S64	1350	Manhole	Adoptable
30.008	S64	1350	Manhole	Adoptable	S65	1350	Manhole	Adoptable
30.009	S65	1350	Manhole	Adoptable	S66	1350	Manhole	Adoptable
30.010	S66	1350	Manhole	Adoptable	S67	1350	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
30.011	13.048	141.8	450	Circular	41.200	39.692	1.058	40.950	39.600	0.900
30.000	15.974	168.1	225	Circular	44.750	43.625	0.900	45.124	43.530	1.369
30.001	9.747	168.1	225	Circular	45.124	43.530	1.369	45.260	43.472	1.563
30.002	9.537	167.3	225	Circular	45.260	43.472	1.563	45.382	43.415	1.742
30.003	26.794	243.6	300	Circular	45.382	43.340	1.742	45.400	43.230	1.870
30.004	5.280	240.0	300	Circular	45.400	43.230	1.870	45.450	43.208	1.942
32.000	35.868	75.5	150	Circular	44.600	43.550	0.900	44.200	43.075	0.975
33.000	21.572	35.7	375	Circular	42.700	41.425	0.900	42.095	40.820	0.900
33.001	22.232	285.0	450	Circular	42.095	40.745	0.900	42.600	40.667	1.483
33.002	7.530	171.1	450	Circular	42.600	40.667	1.483	42.500	40.623	1.427
34.000	40.264	300.5	450	Circular	41.250	39.900	0.900	41.600	39.766	1.384
34.001	10.625	303.6	450	Circular	41.600	39.766	1.384	41.400	39.731	1.219
29.000	28.053	36.9	225	Circular	43.700	42.575	0.900	42.940	41.815	0.900
29.001	26.464	19.0	225	Circular	42.940	41.815	0.900	41.550	40.425	0.900
29.002	4.921	24.6	225	Circular	41.550	40.425	0.900	41.350	40.225	0.900
35.000	35.194	30.0	225	Circular	41.375	40.250	0.900	40.200	39.075	0.900
35.001	8.017	9.5	300	Circular	40.200	39.000	0.900	40.200	38.152	1.748
35.002	29.064	44.6	750	Circular	40.200	37.702	1.748	40.700	37.050	2.900

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
30.011	S67	1350	Manhole	Adoptable	S26	1800	Manhole	Adoptable
30.000	S68	1200	Manhole	Adoptable	S69	1200	Manhole	Adoptable
30.001	S69	1200	Manhole	Adoptable	S70	1200	Manhole	Adoptable
30.002	S70	1200	Manhole	Adoptable	S71	1200	Manhole	Adoptable
30.003	S71	1200	Manhole	Adoptable	S72	1200	Manhole	Adoptable
30.004	S72	1200	Manhole	Adoptable	S61	1350	Manhole	Adoptable
32.000	S73	1200	Manhole	Adoptable	S63	1350	Manhole	Adoptable
33.000	S74	1200	Manhole	Adoptable	S75	1200	Manhole	Adoptable
33.001	S75	1200	Manhole	Adoptable	S76	1200	Manhole	Adoptable
33.002	S76	1200	Manhole	Adoptable	S64	1350	Manhole	Adoptable
34.000	S77	1350	Manhole	Adoptable	S78	1350	Manhole	Adoptable
34.001	S78	1350	Manhole	Adoptable	S66	1350	Manhole	Adoptable
29.000	S79	1200	Manhole	Adoptable	S80	1200	Manhole	Adoptable
29.001	S80	1200	Manhole	Adoptable	S81	1200	Manhole	Adoptable
29.002	S81	1200	Manhole	Adoptable	S24	1500	Manhole	Adoptable
35.000	S82	1200	Manhole	Adoptable	S83	1200	Manhole	Adoptable
35.001	S83	1200	Manhole	Adoptable	S84	1500	Manhole	Adoptable
35.002	S84	1500	Manhole	Adoptable	S27	2025	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
38.000	36.529	19.1	225	Circular	41.410	40.285	0.900	39.500	38.375	0.900
38.001	4.542	239.1	300	Circular	39.500	38.300	0.900	39.500	38.281	0.919
38.002	8.220	249.1	300	Circular	39.500	38.281	0.919	39.450	38.248	0.902
38.003	11.637	247.6	300	Circular	39.450	38.248	0.902	39.400	38.201	0.899
38.004	10.667	53.1	300	Circular	39.400	38.201	0.899	39.200	38.000	0.900
38.005	12.675	31.7	300	Circular	39.200	38.000	0.900	38.800	37.600	0.900
38.006	27.125	23.8	300	Circular	38.800	37.600	0.900	37.660	36.460	0.900
39.000	10.457	83.7	150	Circular	39.775	38.725	0.900	39.650	38.600	0.900
39.001	5.991	29.7	150	Circular	39.650	38.600	0.900	39.450	38.398	0.902
40.000	21.462	74.8	600	Circular	38.400	36.447	1.353	37.660	36.160	0.900
38.007	44.157	74.8	600	Circular	37.660	36.160	0.900	37.070	35.570	0.900
Dummy Pipe	1.000	0.0	150	Circular	34.066	32.566	1.350	33.800	32.566	1.084
41.000	4.221	21.1	200	Rill	41.600	41.400	0.000	41.400	41.200	0.000
41.001	3.345	33.5	200	Rill	41.400	41.200	0.000	41.300	41.100	0.000
41.002	35.416	29.5	200	Rill	41.300	41.100	0.000	40.100	39.900	0.000
41.003	16.151	32.3	200	Rill	40.100	39.900	0.000	39.600	39.400	0.000
41.004	38.719	35.2	200	Rill	39.600	39.400	0.000	38.500	38.300	0.000
41.005	32.308	35.9	200	Rill	38.500	38.300	0.000	37.600	37.400	0.000
41.006	49.020	44.6	200	Rill	37.600	37.400	0.000	36.500	36.300	0.000
41.007	10.249	38.0	200	Rill	36.500	36.300	0.000	36.230	36.030	0.000
41.008	14.397	65.4	200	Rill	36.230	36.030	0.000	36.010	35.810	0.000

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
38.000	S89	1200	Manhole	Adoptable	S90	1200	Manhole	Adoptable
38.001	S90	1200	Manhole	Adoptable	S91	1200	Manhole	Adoptable
38.002	S91	1200	Manhole	Adoptable	Junction 4		Junction	
38.003	Junction 4		Junction		S92	1200	Manhole	Adoptable
38.004	S92	1200	Manhole	Adoptable	S93	1200	Manhole	Adoptable
38.005	S93	1200	Manhole	Adoptable	S94	1200	Manhole	Adoptable
38.006	S94	1200	Manhole	Adoptable	Junction 3		Junction	
39.000	S95	1200	Manhole	Adoptable	S96	1200	Manhole	Adoptable
39.001	S96	1200	Manhole	Adoptable	Junction 4		Junction	
40.000	S97	1500	Manhole	Adoptable	Junction 3		Junction	
38.007	Junction 3		Junction		S31	1800	Manhole	Adoptable
Dummy Pipe	HW2		Junction		Dummy 1	1200	Manhole	Adoptable
41.000	R1		Junction		R2		Junction	
41.001	R2		Junction		R3		Junction	
41.002	R3		Junction		R4		Junction	
41.003	R4		Junction		R5		Junction	
41.004	R5		Junction		R6		Junction	
41.005	R6		Junction		R7		Junction	
41.006	R7		Junction		R8		Junction	
41.007	R8		Junction		R9		Junction	
41.008	R9		Junction		R10		Junction	

Pipeline Schedule

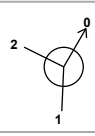
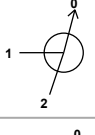
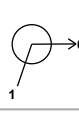
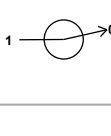
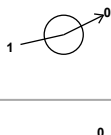
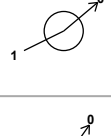
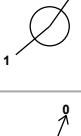
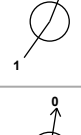
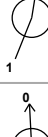
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
41.009	6.614	132.3	200	Rill	36.010	35.810	0.000	35.960	35.760	0.000
41.010	16.339	44.2	200	Rill	35.960	35.760	0.000	35.590	35.390	0.000
41.011	3.939	131.3	200	Rill	35.590	35.390	0.000	35.560	35.360	0.000
41.012	14.350	42.2	200	Rill	35.560	35.360	0.000	35.220	35.020	0.000

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
41.009	R10		Junction		R11		Junction	
41.010	R11		Junction		R12		Junction	
41.011	R12		Junction		R13		Junction	
41.012	R13		Junction		R14		Junction	

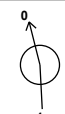
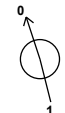
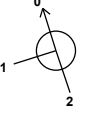
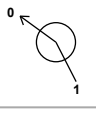
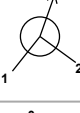
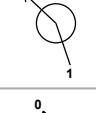
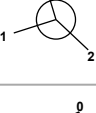
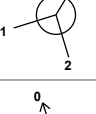
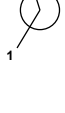
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
HW2	569722.225	266432.129	34.066	1.500		1	23.032	32.566	900	
						2	1.038	32.566	750	
						0	Dummy Pipe	32.566	150	
S98	569707.249	266007.360	50.915	1.125	1200		0	1.000	49.790	150
S99	569701.656	266020.352	50.595	1.200	1200		1	1.000	49.470	150
S100	569705.801	266030.407	50.600	1.270	1200	0	1.001	49.395	225	
						1	1.001	49.330	225	
S101	569720.724	266035.589	50.400	1.240	1200	0	1.002	49.330	225	
						1	2.001	49.235	225	
						2	1.002	49.235	225	
S102	569729.894	266037.943	50.300	1.200	1200	0	1.003	49.160	300	
						1	1.003	49.100	300	
						0	1.004	49.100	300	
S103	569751.992	266040.822	50.000	1.375	1350	1	1.005	48.725	300	
						0	1.006	48.625	375	
S104	569776.964	266040.863	49.700	1.275	1350	1	5.001	48.575	225	
						2	1.007	48.425	375	
						0	1.008	48.425	375	
S105	569790.841	266040.485	49.500	1.275	1350	1	1.008	48.225	375	
						0	1.009	48.225	375	

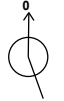
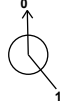
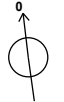
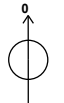
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S106	569797.916	266036.967	49.400	1.275	1350		1	6.001	48.275	225
							2	1.009	48.125	375
							0	1.010	48.125	375
S107	569802.014	266044.016	49.100	1.275	1350		1	1.010	47.825	375
							0	1.011	47.825	375
S108	569802.186	266067.231	48.200	1.275	1350		1	1.011	46.925	375
							0	1.012	46.925	375
S109	569804.986	266075.571	48.000	2.125	1350		1	7.004	45.875	450
							2	1.012	45.950	375
							0	1.013	45.875	450
S110	569809.887	266094.269	47.115	1.279	1350		1	1.013	45.836	450
							0	1.014	45.836	450
S111	569818.269	266118.942	45.900	1.500	1500		1	1.014	44.550	450
							0	1.015	44.400	600
S112	569845.922	266119.119	46.200	1.966	1500		1	1.015	44.234	600
							0	1.016	44.234	600
S113	569856.102	266121.412	45.900	1.728	1500		1	1.016	44.172	600
							0	1.017	44.172	600
S114	569864.419	266125.515	45.700	1.584	1500		1	1.017	44.116	600
							0	1.018	44.116	600
S115	569872.785	266132.547	45.400	1.500	1500		1	1.018	43.900	600
							0	1.019	43.900	600
S116	569878.782	266141.012	45.100	1.500	1500		1	1.019	43.600	600
							0	1.020	43.600	600
S117	569882.226	266149.613	44.800	1.500	1500		1	1.020	43.300	600
							0	1.021	43.300	600
S118	569883.726	266158.976	44.600	1.500	1500		1	1.021	43.100	600
							0	1.022	43.100	600

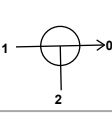
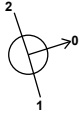
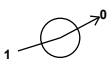
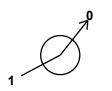
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S119	569883.309	266167.054	44.350	1.500	1500		1 1.022	42.850	600
S120	569881.262	266175.176	44.100	1.500	1500		0 1.023	42.850 42.600	600 600
S121	569877.312	266187.213	43.500	1.500	1500		0 1.024	42.600 42.000	600 600
S122	569875.251	266193.346	43.100	1.500	1500		1 2 1.025 1.025	42.000 41.600 41.600	600 600 600
S123	569864.928	266226.499	41.400	1.500	1500		0 1.026	41.600 39.900	600 600
S124	569859.562	266236.973	40.950	1.500	1500		0 1.027	39.900 39.450	600 600
S125	569848.675	266244.885	40.500	1.500	1500		1 2 1.028 1.028	39.150 39.000 39.000	450 600 600
S126	569851.507	266252.923	40.200	1.500	1500		0 1.029	39.000 38.700	600 600
S127	569850.494	266262.009	40.000	1.500	1500		0 1.030	38.700 38.500	600 600
S128	569845.078	266277.870	39.500	1.500	1500		0 1.031	38.500 38.000	600 600
S129	569832.918	266289.309	39.100	1.699	1500		1 2 1.032 1.032	37.551 37.551 37.401	600 600 750
S130	569816.835	266342.853	37.000	1.650	1500		1 2 1.033 1.033	35.500 35.350 35.350	600 750 750
S131	569824.201	266355.039	36.210	1.650	1500		0 1.034	35.350 34.560	750 750

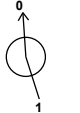
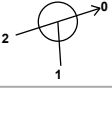
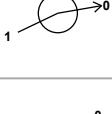
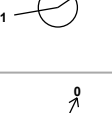
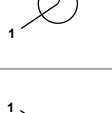
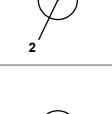
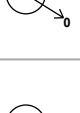
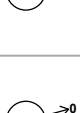
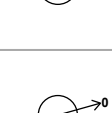
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S132	569816.483	266379.587	35.300	1.791	2400		1 16.017	33.509	750
							2 1.035	33.526	750
							0 1.036	33.526	750
S133	569752.163	266359.341	35.860	2.643	2400		1 1.036	33.217	750
							0 1.037	33.217	750
							1 1.037	32.642	750
S134	569731.954	266422.697	33.800	1.158	2400		1 1.038	32.642	750
							0 2.000	49.685	225
							1 2.000	49.512	225
S135	569724.551	266013.034	50.810	1.125	1200		0 2.001	49.512	225
							1 7.000	48.915	225
							0 7.001	48.915	225
S136	569720.574	266024.095	50.637	1.125	1200		1 7.001	47.925	225
							0 7.002	47.175	225
							1 7.002	47.175	225
S137	569721.934	266056.318	50.040	1.125	1200		0 3.000	49.775	225
							1 3.000	49.220	225
							0 3.001	49.220	225
S138	569728.673	266040.529	50.250	1.125	1200		0 4.000	49.325	225
							1 4.000	48.955	225
							0 4.001	48.955	225
S137A	569716.902	266062.459	49.050	1.875	1200		0 5.000	49.175	225
							1 5.000	49.175	225
							0 5.000	49.175	225
S139	569742.308	266009.137	50.900	1.125	1200		0 5.000	49.175	225
							1 5.000	49.175	225
							0 5.000	49.175	225
S140	569739.094	266032.307	50.345	1.125	1200		0 5.000	49.175	225
							1 5.000	49.175	225
							0 5.000	49.175	225
S141	569758.699	266014.157	50.450	1.125	1200		0 5.000	49.175	225
							1 5.000	49.175	225
							0 5.000	49.175	225
S142	569758.693	266033.688	50.080	1.125	1200		0 5.000	49.175	225
							1 5.000	49.175	225
							0 5.000	49.175	225
S143	569776.571	266015.736	50.300	1.125	1200		0 5.000	49.175	225
							1 5.000	49.175	225
							0 5.000	49.175	225

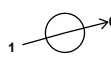
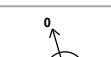
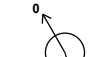
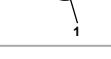
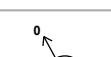
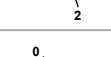
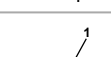
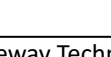
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S144	569776.474	266033.809	49.800	1.125	1200	 1	5.000	48.675	225
						0	5.001	48.675	225
S145	569791.591	266013.940	50.300	1.125	1200	 0	6.000	49.175	225
						0	6.000	48.475	225
S146	569797.662	266031.107	49.600	1.125	1200	 1	6.000	48.475	225
						0	6.001	48.475	225
S147	569688.030	266074.309	48.200	1.350	1350	 0	8.000	46.850	450
						0	8.000	46.550	450
S147A	569716.635	266074.923	47.900	1.350	1350	 1	7.002	46.775	225
						0	7.003	46.550	450
S148	569745.015	266075.533	47.550	1.350	1200	 1	7.003	46.200	450
						0	7.004	46.200	450
S149	569807.450	266157.425	44.600	1.125	1200	 0	10.000	43.475	225
						0	10.000	42.125	225
S150	569803.640	266170.759	44.200	2.450	1500	 2	9.000	42.125	225
						0	9.001	41.750	600
S151	569796.558	266191.987	43.600	1.125	1200	 0	9.000	42.475	225
						0	11.000	40.300	300
S153	569823.324	266232.039	40.850	1.275	1350	 1	11.000	39.650	300
						0	11.001	39.575	375
S154	569838.429	266236.737	40.700	1.425	1350	 1	11.001	39.350	375
						0	11.002	39.275	450
S155	569844.947	266240.192	40.650	1.394	1350	 1	11.002	39.256	450
						0	11.003	39.256	450

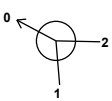
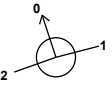
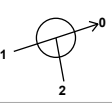
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S156	569809.939	266274.183	39.350	1.125	1200		1 13.000	38.225	225
S157	569821.963	266236.416	40.950	1.125	1200		0 13.001	38.225	225
S158	569755.106	266264.505	39.900	1.500	1500		0 13.000	39.825	225
S159	569809.428	266281.821	39.100	1.500	1500		0 12.000 1 13.001 2 12.000	38.400 37.975 37.600	600 225 600
S160A	569715.976	266288.441	39.100	1.350	1200		0 14.000_1	37.750	450
S160B	569728.023	266294.192	39.200	1.539	1200		1 14.000_1	37.661	450
S160C	569735.153	266295.420	39.050	1.437	1200		0 14.001_1 1 14.001_1	37.661 37.613	450 450
S160	569740.316	266298.912	38.900	1.350	1200		0 14.002 1 14.002	37.613 37.550	450 450
S161	569751.711	266322.557	38.000	1.800	1200		0 14.000 1 15.000 2 14.000	37.550 36.500 36.350	450 300 450
S162	569739.000	266330.491	37.800	1.200	1200		0 15.000	36.600	300
S163	569918.961	266219.787	41.400	1.125	1200		0 16.000	40.275	225
S164	569927.284	266220.667	41.350	1.125	1200		1 16.000	40.225	225
S165	569937.171	266223.363	41.300	1.211	1200		0 16.001 1 16.001	40.225 40.164	225 225
							0 16.002	40.089	300

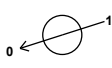
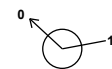
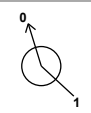
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S166	569954.234	266228.141	41.250	1.232	1200		1	16.002	40.018	300
							0	16.003	40.018	300
S167	569959.364	266229.433	41.100	1.200	1200		1	16.003	39.900	300
							0	16.004	39.900	300
S168	569970.626	266234.024	40.850	1.200	1200		1	16.004	39.650	300
							0	16.005	39.650	300
S169	569958.142	266276.377	39.000	1.200	1200		1	16.005	37.800	300
							0	16.006	37.800	300
S170	569953.823	266283.898	38.650	1.200	1200		1	16.006	37.450	300
							0	16.007	37.450	300
S171	569946.393	266291.449	38.200	1.275	1350		1	17.004	37.000	300
							2	16.007	37.000	300
							0	16.008	36.925	375
S172	569941.022	266296.907	38.050	1.275	1350		1	16.008	36.775	375
							0	16.009	36.775	375
S173	569937.632	266303.145	37.900	1.275	1350		1	16.009	36.625	375
							0	16.010	36.625	375
S174	569930.748	266325.076	37.300	2.849	1350		1	20.002	34.601	450
							2	16.010	34.676	375
							0	16.011	34.451	600
S175	569920.193	266358.705	36.400	2.019	1350		1	16.011	34.381	600
							0	16.012	34.381	600
S176	569917.070	266364.144	36.250	2.522	1500		1	21.001	34.028	450
							2	16.012	33.878	600
							0	16.013	33.728	750
S177	569911.140	266365.232	36.100	2.384	1500		1	16.013	33.716	750
							0	16.014	33.716	750
S178	569874.696	266353.280	35.800	2.161	1500		1	16.014	33.639	750
							0	16.015	33.639	750

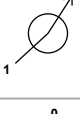
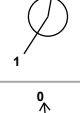
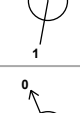
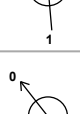
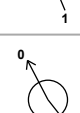
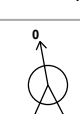
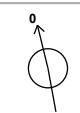
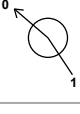
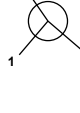
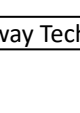
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S179	569860.969	266353.566	36.000	2.388	1500	 1	22.005	34.079	300
						2	16.015	33.612	750
						0	16.016	33.612	750
S180	569830.976	266369.547	35.600	2.056	1500	 1	16.016	33.544	750
						0	16.017	33.544	750
S181	569899.162	266230.781	41.000	1.125	1200				
S182	569893.843	266247.694	40.150	1.200	1200	 1	22.000	39.875	225
						0	22.001	38.950	300
S183	569882.910	266281.536	39.100	1.200	1200	 1	22.001	37.900	300
						0	22.002	37.900	300
S184	569874.893	266304.710	38.580	1.200	1200	 1	22.002	37.380	300
						0	22.003	37.380	300
S185	569871.760	266314.427	38.500	1.200	1200	 1	22.003	37.300	300
						0	22.004	37.300	300
S186	569861.547	266346.673	36.150	1.200	1200	 1	22.004	34.950	300
						0	22.005	34.950	300
S187	569919.553	266253.367	39.100	1.125	1200				
						0	17.000	37.975	225
S188	569934.577	266258.694	38.900	1.175	1200	 1	18.000	37.725	225
						2	17.000	37.775	225
						0	17.001	37.725	225
S189	569929.549	266273.997	38.800	1.171	1200	 1	17.001	37.629	225
						0	17.002	37.629	225
S190	569928.338	266280.641	38.700	1.200	1200	 1	19.000	37.575	225
						2	17.002	37.575	225
						0	17.003	37.500	300
S191	569938.689	266284.040	38.500	1.125	1200	 1	17.003	37.375	300
						0	17.004	37.375	300

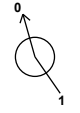
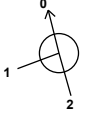
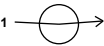
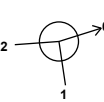
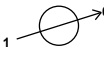
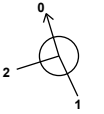
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S192	569942.645	266260.791	38.900	1.125	1200	 0	18.000	37.775	225
S193	569895.019	266269.890	39.400	1.425	1200	 0	19.000	37.975	225
S194	569947.081	266352.086	36.200	1.350	1200	 0	20.000	34.850	450
S195	569952.710	266332.082	37.200	2.474	1200	 1	20.000	34.726	450
						0	20.001	34.726	450
S196	569940.167	266328.081	37.400	2.753	1200	 1	20.001	34.647	450
						0	20.002	34.647	450
S197	569947.720	266377.425	35.600	1.350	1200	 0	21.000	34.250	450
S198	569919.606	266368.752	36.200	2.146	1200	 1	21.000	34.054	450
						0	21.001	34.054	450
Junction 1	569738.300	266039.038	50.150	1.194		 1	3.001	49.031	225
						2	1.004	48.956	300
						0	1.005	48.956	300
Junction 2	569758.681	266040.833	49.900	1.329		 1	4.001	48.721	225
						2	1.006	48.571	375
						0	1.007	48.571	375
S1	569693.644	265987.272	51.900	1.125	1200	 0	23.000	50.775	225
S2	569671.324	265967.100	52.836	2.241	1200	 1	23.000	50.595	225
						0	23.001	50.595	225
S3	569664.258	265965.779	53.000	2.448	1200	 1	23.001	50.552	225
						0	23.002	50.552	225
S4	569659.663	265970.021	52.845	2.405	1200	 1	23.002	50.515	225
						0	23.003	50.440	300

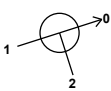
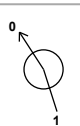
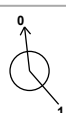
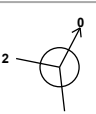
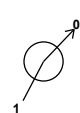
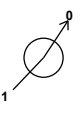
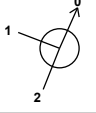
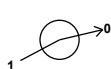
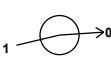
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S5	569655.344	265984.061	52.403	2.023	1200	 1	23.003	50.380	300
S6	569654.028	265988.258	52.300	1.938	1200	 1	23.004	50.380	300
S7	569684.791	266016.496	50.700	1.200	1200	 1	23.005	50.362	300
S8	569690.655	266025.584	50.300	1.200	1200	 1	23.006	49.500	300
S9	569692.129	266033.724	49.900	1.200	1200	 1	23.007	49.100	300
S10	569691.212	266044.245	49.500	1.200	1200	 1	23.008	48.700	300
S11	569685.239	266058.562	48.900	1.200	1200	 1	23.009	48.300	300
S12	569676.084	266070.212	48.200	1.200	1200	 1	23.010	47.700	300
S13	569672.145	266077.787	47.800	1.350	1350	 1	24.006	46.525	375
S14	569668.227	266099.200	46.700	1.350	1350	 1	23.011	46.600	300
S15	569665.373	266110.831	46.100	1.350	1350	 1	23.012	46.450	450
S16	569660.670	266117.924	45.800	1.350	1350	 1	23.013	45.350	450
S17	569654.528	266123.192	45.500	1.378	1350	 1	23.014	45.350	450
							23.015	44.750	450
							23.016	44.450	450
							26.003	44.347	225
							23.015	44.122	450
							23.016	44.122	450

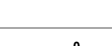
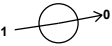
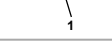
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S18	569650.373	266129.188	45.100	1.350	1350	 1	23.016	43.750	450
S19	569641.670	266159.999	43.600	1.697	1500	0	23.017	43.750	450
						 1	27.010	42.128	525
						2	23.017	42.203	450
S20	569632.186	266197.964	42.100	1.650	1500	0	23.018	41.903	750
						 1	23.018	40.450	750
S21	569632.239	266204.527	41.900	1.650	1500	0	23.019	40.450	750
						 1	23.019	40.250	750
S22	569638.686	266207.495	41.800	1.650	1500	0	23.020	40.250	750
						 1	23.020	40.150	750
S23	569653.121	266206.789	41.500	1.650	1500	0	23.021	40.150	750
						 1	23.021	39.850	750
S24	569665.896	266207.721	41.350	1.650	1500	0	23.022	39.850	750
						 1	29.002	40.225	225
S25	569689.747	266215.221	41.050	1.650	1800	2	23.022	39.700	750
						0	23.023	39.700	750
						 1	23.023	39.400	750
S26	569716.528	266223.642	40.950	1.650	1800	0	23.024	39.400	750
						 1	30.011	39.600	450
						2	23.024	39.300	750
S27	569708.769	266249.438	40.700	3.650	2025	0	23.025	39.300	750
						 1	35.002	37.050	750
						2	23.025	37.050	750
S28	569705.170	266256.527	40.850	3.816	1800	0	23.026	37.050	750
						 1	23.026	37.034	750
S29	569691.639	266299.641	39.250	2.306	1800	0	23.027	37.034	750
						 1	23.027	36.944	750
S30	569686.726	266302.745	39.055	2.123	1800	0	23.028	36.944	750
						 1	23.028	36.932	750
						0	23.029	36.932	750

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S31	569676.329	266335.295	37.070	1.800	1800		1	38.007	35.570	600
							2	23.029	35.420	750
							0	23.030	35.270	900
S32	569749.162	266358.558	35.860	1.800	1800		1	23.030	34.060	900
							0	23.031	34.060	900
S33	569729.000	266421.683	34.550	1.800	1800		1	23.031	32.750	900
							0	23.032	32.750	900
S34	569635.087	265985.197	52.100	1.125	1200					
							0	24.000	50.975	225
S35	569628.916	265992.284	51.900	1.125	1200		1	24.000	50.775	225
							0	24.001	50.775	225
S36	569627.954	266000.695	51.800	1.200	1200		1	24.001	50.675	225
							2	24.003_1	50.600	300
							0	24.002	50.600	300
S37	569632.049	266008.521	51.600	1.200	1200		1	24.002	50.400	300
							0	24.003	50.400	300
S38	569649.320	266026.657	50.500	1.200	1200		1	24.003	49.300	300
							0	24.004	49.300	300
S39	569653.776	266033.387	50.100	1.200	1200		1	24.004	48.900	300
							0	24.005	48.900	300
S40	569665.380	266062.580	48.500	1.799	1350		1	25.001	46.776	300
							2	24.005	46.776	300
							0	24.006	46.701	375
S36D	569559.508	265990.528	53.000	1.050	1200					
							0	24.000_1	51.950	150
S36C	569570.838	265996.535	52.770	1.125	1200		1	24.000_1	51.720	150
							0	24.001_1	51.645	225
S36B	569585.881	266000.083	52.420	1.200	1200		1	24.001_1	51.295	225
							0	24.002_1	51.220	300

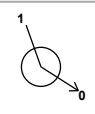
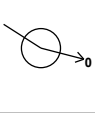
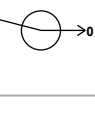
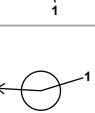
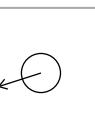
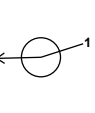
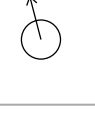
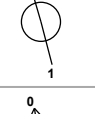
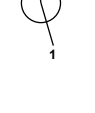
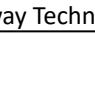
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S36A	569619.680	266002.347	52.000	1.200	1200		1 24.002_1	50.800	300
							0 24.003_1	50.800	300
S41	569632.443	266062.879	48.750	1.125	1200		0 25.000	47.625	225
S42	569637.114	266073.403	48.100	1.200	1200		1 25.000	46.975	225
							0 25.001	46.900	300
S45	569605.023	266014.426	50.626	1.125	1200		0 27.002	49.501	225
S46	569592.689	266050.698	49.750	1.200	1200		1 27.002	48.625	225
							0 27.003	48.550	300
S47	569563.589	266136.276	45.050	1.050	1200		1 27.003	44.075	300
							0 27.004	44.000	375
S48	569583.761	266143.718	44.700	1.275	1350		1 27.004	43.425	375
							0 28.003	43.425	375
S50	569600.923	266149.532	43.888	1.350	1350		1 28.003	42.613	375
							0 27.007	42.538	450
S51	569611.280	266152.891	43.700	1.350	1350		1 27.007	42.350	450
							0 27.008	42.350	450
S52	569619.197	266154.068	43.600	1.425	1500		1 27.008	42.250	450
							0 27.009	42.175	525
S53	569632.488	266156.556	43.600	1.452	1500		1 28.000	42.523	150
							2 27.009	42.148	525
S54	569641.119	266128.036	45.150	1.125	1200		0 27.010	42.148	525
							0 28.000	44.025	150
S55	569616.504	266094.589	47.200	1.125	1200		0 26.000	46.075	225

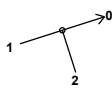
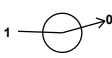
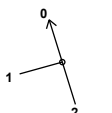
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S56	569623.200	266107.761	47.100	1.125	1200		1 26.000	45.975	225
S57	569646.372	266114.998	45.900	1.125	1200		0 26.001 1 26.001	45.975 44.775	225 225
S58	569651.500	266119.636	45.500	1.125	1200		0 26.002 1 26.002	44.775 44.375	225 225
S59	569796.882	266118.921	45.500	1.200	1200		0 31.000 1 31.000	44.300 44.095	300 300
S60	569746.807	266119.039	45.700	1.605	1200		0 31.001 2 30.004	44.095 43.208	300 300
S61	569741.275	266120.945	45.450	2.317	1350		0 30.005 1 30.005	43.133 43.092	375 375
S62	569739.155	266130.612	45.000	1.908	1350		0 30.006 1 32.000 2 30.006	43.092 43.075 42.850	375 150 375
S63	569737.861	266148.334	44.200	1.350	1350		0 30.007 1 33.002 2 30.007	42.850 40.623 40.698	375 450 375
S64	569727.863	266181.615	42.500	1.877	1350		0 30.008 1 30.008	40.623 40.589	450 450
S65	569728.988	266189.707	42.000	1.411	1350		0 30.009 1 34.001 2 30.009	40.589 39.731 39.731	450 450 450
S66	569731.889	266205.632	41.400	1.669	1350		0 30.010 1 30.010	39.731 39.692	450 450
S67	569722.069	266211.829	41.200	1.508	1350		0 30.011 0 30.000	39.692 43.625	450 225
S68	569686.573	266142.289	44.750	1.125	1200				

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S69	569691.921	266127.237	45.124	1.594	1200		1	30.000	43.530	225
							0	30.001	43.530	225
S70	569700.137	266121.993	45.260	1.788	1200		1	30.001	43.472	225
							0	30.002	43.472	225
S71	569709.372	266119.613	45.382	2.042	1200		1	30.002	43.415	225
							0	30.003	43.340	300
S72	569736.166	266119.614	45.400	2.170	1200		1	30.003	43.230	300
							0	30.004	43.230	300
S73	569772.257	266158.504	44.600	1.050	1200					
							0	32.000	43.550	150
S74	569763.631	266167.315	42.700	1.275	1200					
							0	33.000	41.425	375
S75	569756.634	266187.721	42.095	1.350	1200		1	33.000	40.820	375
							0	33.001	40.745	450
S76	569735.381	266181.197	42.600	1.933	1200		1	33.001	40.667	450
							0	33.002	40.667	450
S77	569780.854	266218.185	41.250	1.350	1350					
							0	34.000	39.900	450
S78	569742.511	266205.898	41.600	1.834	1350		1	34.000	39.766	450
							0	34.001	39.766	450
S79	569681.085	266150.296	43.700	1.125	1200					
							0	29.000	42.575	225
S80	569674.027	266177.447	42.940	1.125	1200		1	29.000	41.815	225
							0	29.001	41.815	225
S81	569666.621	266202.854	41.550	1.125	1200		1	29.001	40.425	225
							0	29.002	40.425	225

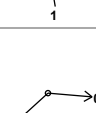
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S82	569754.894	266223.226	41.375	1.125	1200		0	35.000	40.250	225
S83	569744.208	266256.759	40.200	1.200	1200		1	35.000	39.075	225
S84	569736.383	266258.504	40.200	2.498	1500		0	35.001	39.000	300
S89	569660.558	266214.654	41.410	1.125	1200		1	35.001	38.152	300
S90	569649.441	266249.450	39.500	1.200	1200		0	35.002	37.702	750
S91	569648.075	266253.782	39.500	1.219	1200		0	38.000	40.285	225
S92	569642.178	266272.743	39.400	1.199	1200		1	38.000	38.375	225
S93	569641.462	266283.386	39.200	1.200	1200		0	38.001	38.300	300
S94	569642.508	266296.018	38.800	1.200	1200		1	38.001	38.281	300
Junction 3	569634.265	266321.860	37.660	1.500			0	38.002	38.281	300
S95	569629.410	266260.393	39.775	1.050	1200		1	38.003	38.201	300
S96	569639.861	266260.030	39.650	1.050	1200		0	38.004	38.201	300
Junction 4	569645.634	266261.631	39.450	1.202			1	38.005	38.000	300
							2	38.005	38.000	300
							0	38.006	37.600	300
							1	40.000	36.160	600
							2	38.006	36.460	300
							0	38.007	36.160	600
							0	39.000	38.725	150
							1	39.000	38.600	150
							0	39.001	38.600	150
							1	39.001	38.398	150
							2	38.002	38.248	300
							0	38.003	38.248	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S97	569613.821	266315.330	38.400	1.953	1500					
						0	40.000	36.447	600	
Dummy 1			33.800	1.234	1200		1 Dummy Pipe	32.566	150	
R1	569633.917	266212.065	41.600	0.200						
						0	41.000	41.400	200	
R2	569630.513	266214.561	41.400	0.200			1	41.000	41.200	200
						0	41.001	41.200	200	
R3	569629.524	266217.756	41.300	0.200			1	41.001	41.100	200
						0	41.002	41.100	200	
R4	569621.211	266252.183	40.100	0.200			1	41.002	39.900	200
						0	41.003	39.900	200	
R5	569617.173	266267.821	39.600	0.200			1	41.003	39.400	200
						0	41.004	39.400	200	
R6	569607.470	266305.304	38.500	0.200			1	41.004	38.300	200
						0	41.005	38.300	200	
R7	569599.465	266336.605	37.600	0.200			1	41.005	37.400	200
						0	41.006	37.400	200	
R8	569587.454	266384.131	36.500	0.200			1	41.006	36.300	200
						0	41.007	36.300	200	
R9	569586.217	266394.305	36.230	0.200			1	41.007	36.030	200
						0	41.008	36.030	200	
R10	569587.434	266408.650	36.010	0.200			1	41.008	35.810	200
						0	41.009	35.810	200	
R11	569587.124	266415.257	35.960	0.200			1	41.009	35.760	200
						0	41.010	35.760	200	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
R12	569584.442	266431.374	35.590	0.200			1 41.010	35.390	200
							0 41.011	35.390	200
R13	569587.356	266434.025	35.560	0.200			1 41.011	35.360	200
							0 41.012	35.360	200
R14	569601.654	266432.809	35.220	0.200			1 41.012	35.020	200

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	10080	Check Discharge Volume	x

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
30	35	5	0
100	0	0	0
100	40	5	0

Node R14 Offline Weir Control

Flap Valve	x	Invert Level (m)	35.020	Discharge Coefficient	0.590
Loop to Node	HW2	Width (m)	3.000		

Node HW2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.47160	Safety Factor	1.5	Invert Level (m)	32.566
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	31

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	1520.5	1520.5	0.600	1930.4	1520.5	0.601	2827.0	2827.0	1.500	3856.9	2827.0

Node HW2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.47160	Safety Factor	1.5	Invert Level (m)	32.566
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	101

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	3598.7	3598.7	0.300	3598.7	3598.7	0.301	0.0	3598.7

Node S197 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	35.170	Slope (1:X)	49.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	2	Depth (m)	0.300
Safety Factor	2.0	Width (m)	9.733	Inf Depth (m)	
Porosity	0.30	Length (m)	32.000		

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	HW2	25	32.645	0.079	869.5	207.1478	0.0000	OK
15 minute summer	S98	10	49.838	0.048	5.5	0.0537	0.0000	OK
15 minute summer	S99	10	49.452	0.057	5.5	0.0648	0.0000	OK
15 minute summer	S100	11	49.403	0.073	8.5	0.0822	0.0000	OK
15 minute summer	S101	11	49.248	0.088	14.9	0.0997	0.0000	OK
15 minute summer	S102	11	49.175	0.075	18.3	0.0843	0.0000	OK
15 minute summer	S103	11	48.735	0.110	28.5	0.1574	0.0000	OK
15 minute summer	S104	11	48.538	0.113	41.6	0.1621	0.0000	OK
15 minute summer	S105	11	48.350	0.125	43.2	0.1788	0.0000	OK
15 minute summer	S106	11	48.224	0.099	48.7	0.1414	0.0000	OK
15 minute summer	S107	11	47.935	0.110	61.9	0.1576	0.0000	OK
15 minute summer	S108	11	47.002	0.077	62.7	0.1097	0.0000	OK
15 minute summer	S109	11	46.103	0.228	96.6	0.3266	0.0000	OK
15 minute summer	S110	11	45.951	0.115	95.5	0.1652	0.0000	OK
15 minute summer	S111	11	44.598	0.198	107.9	0.3500	0.0000	OK
15 minute summer	S112	12	44.447	0.213	109.4	0.3770	0.0000	OK
15 minute summer	S113	12	44.373	0.201	111.2	0.3553	0.0000	OK
15 minute summer	S114	12	44.273	0.157	112.8	0.2772	0.0000	OK
15 minute summer	S115	12	44.045	0.145	117.3	0.2560	0.0000	OK
15 minute summer	S116	12	43.742	0.142	118.7	0.2507	0.0000	OK
15 minute summer	S117	12	43.464	0.164	122.6	0.2905	0.0000	OK
15 minute summer	S118	12	43.252	0.152	124.6	0.2684	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	HW2	Dummy Pipe	Dummy 1	5.5	0.643	0.310	0.0085	3.6
30 minute summer	HW2	Infiltration		132.8				
30 minute summer	HW2	Infiltration		314.3				
15 minute summer	S98	1.000	S99	5.5	1.167	0.203	0.0661	
15 minute summer	S99	1.001	S100	5.4	0.575	0.135	0.1030	
15 minute summer	S100	1.002	S101	8.5	0.789	0.211	0.1698	
15 minute summer	S101	1.003	S102	15.0	0.971	0.170	0.1461	
15 minute summer	S102	1.004	Junction 1	18.3	1.205	0.126	0.1292	
15 minute summer	S103	1.006	Junction 2	28.6	1.036	0.159	0.1844	
15 minute summer	S104	1.008	S105	41.7	1.388	0.173	0.4172	
15 minute summer	S105	1.009	S106	43.2	1.568	0.192	0.2182	
15 minute summer	S106	1.010	S107	48.7	1.947	0.126	0.2042	
15 minute summer	S107	1.011	S108	61.9	2.897	0.157	0.5000	
15 minute summer	S108	1.012	S109	62.7	2.548	0.094	0.2571	
15 minute summer	S109	1.013	S110	95.5	1.717	0.662	1.0897	
15 minute summer	S110	1.014	S111	94.9	3.089	0.132	0.8009	
15 minute summer	S111	1.015	S112	107.2	1.264	0.201	2.3462	
15 minute summer	S112	1.016	S113	110.4	1.280	0.208	0.9001	
15 minute summer	S113	1.017	S114	111.6	1.585	0.209	0.6554	
15 minute summer	S114	1.018	S115	113.1	2.041	0.117	0.6059	
15 minute summer	S115	1.019	S116	117.6	2.280	0.100	0.5349	
15 minute summer	S116	1.020	S117	118.8	2.099	0.096	0.5252	
15 minute summer	S117	1.021	S118	122.7	2.073	0.123	0.5619	
15 minute summer	S118	1.022	S119	124.6	2.199	0.103	0.4587	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S119	12	43.005	0.155	125.4	0.2734	0.0000	OK
15 minute summer	S120	12	42.729	0.129	128.4	0.2287	0.0000	OK
15 minute summer	S121	12	42.130	0.130	128.9	0.2294	0.0000	OK
15 minute summer	S122	12	41.738	0.138	177.7	0.2440	0.0000	OK
15 minute summer	S123	12	40.067	0.167	179.1	0.2957	0.0000	OK
15 minute summer	S124	12	39.620	0.170	180.3	0.3000	0.0000	OK
15 minute summer	S125	12	39.203	0.203	216.5	0.3589	0.0000	OK
15 minute summer	S126	12	38.930	0.230	217.7	0.4059	0.0000	OK
15 minute summer	S127	12	38.694	0.194	219.6	0.3425	0.0000	OK
15 minute summer	S128	12	38.204	0.204	221.2	0.3600	0.0000	OK
15 minute summer	S129	12	37.577	0.176	283.5	0.3114	0.0000	OK
15 minute summer	S130	12	35.539	0.189	318.4	0.3340	0.0000	OK
15 minute summer	S131	12	34.744	0.184	319.8	0.3246	0.0000	OK
15 minute summer	S132	12	33.809	0.300	479.6	1.3578	0.0000	OK
15 minute summer	S133	12	33.464	0.247	519.9	1.1177	0.0000	OK
15 minute summer	S134	13	32.906	0.264	520.9	1.1963	0.0000	OK
15 minute summer	S135	10	49.731	0.046	5.4	0.0525	0.0000	OK
15 minute summer	S136	10	49.552	0.040	5.4	0.0455	0.0000	OK
15 minute summer	S137	10	48.949	0.034	8.2	0.0380	0.0000	OK
15 minute summer	S138	10	49.189	0.064	8.3	0.0718	0.0000	OK
15 minute summer	S137A	10	47.221	0.046	8.2	0.0525	0.0000	OK
15 minute summer	S139	10	49.819	0.044	6.6	0.0501	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S119	1.023	S120	125.4	2.463	0.105	0.4273	
15 minute summer	S120	1.024	S121	128.2	2.871	0.085	0.5660	
15 minute summer	S121	1.025	S122	128.7	2.766	0.075	0.3029	
15 minute summer	S122	1.026	S123	178.0	3.157	0.116	1.9620	
15 minute summer	S123	1.027	S124	178.8	2.761	0.132	0.7624	
15 minute summer	S124	1.028	S125	180.0	2.452	0.143	1.0049	
15 minute summer	S125	1.029	S126	216.6	2.367	0.167	0.7802	
15 minute summer	S126	1.030	S127	217.6	2.450	0.213	0.8130	
15 minute summer	S127	1.031	S128	219.4	2.694	0.184	1.3654	
15 minute summer	S128	1.032	S129	219.9	2.881	0.194	1.2758	
15 minute summer	S129	1.033	S130	282.8	3.419	0.119	4.6286	
15 minute summer	S130	1.034	S131	317.5	3.728	0.109	1.2128	
15 minute summer	S131	1.035	S132	319.4	2.736	0.129	3.0301	
15 minute summer	S132	1.036	S133	478.2	1.735	0.286	18.7684	
15 minute summer	S133	1.037	S134	520.9	1.967	0.227	17.6132	
15 minute summer	S134	1.038	HW2	520.8	4.082	0.282	2.0375	
15 minute summer	S135	2.000	S136	5.4	1.003	0.085	0.0628	
15 minute summer	S136	2.001	S101	5.3	1.129	0.065	0.0537	
15 minute summer	S137	7.001	S137A	8.2	2.285	0.044	0.0284	
15 minute summer	S138	7.000	S137	8.2	1.311	0.143	0.1105	
15 minute summer	S137A	7.002	S147A	8.1	1.417	0.087	0.0714	
15 minute summer	S139	3.000	S140	6.5	1.220	0.082	0.1256	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S140	10	49.263	0.043	6.5	0.0483	0.0000	OK
15 minute summer	S141	10	49.370	0.045	5.9	0.0511	0.0000	OK
15 minute summer	S142	10	48.994	0.039	5.8	0.0438	0.0000	OK
15 minute summer	S143	10	49.211	0.036	5.0	0.0412	0.0000	OK
15 minute summer	S144	10	48.720	0.045	5.0	0.0511	0.0000	OK
15 minute summer	S145	10	49.210	0.035	5.4	0.0396	0.0000	OK
15 minute summer	S146	10	48.513	0.038	5.4	0.0429	0.0000	OK
15 minute summer	S147	10	46.881	0.031	3.3	0.0448	0.0000	OK
15 minute summer	S147A	11	46.616	0.066	17.0	0.0939	0.0000	OK
15 minute summer	S148	11	46.309	0.109	31.8	0.1231	0.0000	OK
15 minute summer	S149	10	43.510	0.035	8.1	0.0394	0.0000	OK
15 minute summer	S150	11	41.910	0.160	48.1	0.2833	0.0000	OK
15 minute summer	S151	10	42.535	0.060	9.9	0.0683	0.0000	OK
15 minute summer	S152	10	40.380	0.080	26.7	0.0901	0.0000	OK
15 minute summer	S153	10	39.678	0.103	34.9	0.1470	0.0000	OK
15 minute summer	S154	10	39.417	0.142	40.0	0.2038	0.0000	OK
15 minute summer	S155	10	39.362	0.106	40.4	0.1524	0.0000	OK
15 minute summer	S156	10	38.273	0.048	8.4	0.0540	0.0000	OK
15 minute summer	S157	10	39.868	0.043	8.5	0.0486	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S140	3.001	Junction 1	6.5	1.267	0.074	0.0346	
15 minute summer	S141	4.000	S142	5.8	1.147	0.082	0.0997	
15 minute summer	S142	4.001	Junction 2	5.8	1.300	0.061	0.0318	
15 minute summer	S143	5.000	S144	5.0	1.016	0.057	0.0887	
15 minute summer	S144	5.001	S104	4.9	0.902	0.079	0.0384	
15 minute summer	S145	6.000	S146	5.4	1.287	0.052	0.0758	
15 minute summer	S146	6.001	S106	5.3	1.254	0.055	0.0248	
15 minute summer	S147	8.000	S147A	3.2	0.356	0.010	0.2711	
15 minute summer	S147A	7.003	S148	16.9	0.794	0.047	0.6207	
15 minute summer	S148	7.004	S109	31.4	0.586	0.132	3.3030	
15 minute summer	S149	10.000	S150	8.1	2.111	0.049	0.0530	
15 minute summer	S150	9.001	S122	47.0	0.938	0.154	4.0061	
15 minute summer	S151	9.000	S150	9.7	1.164	0.150	0.1874	
15 minute summer	S152	11.000	S153	26.4	1.819	0.144	0.3493	
15 minute summer	S153	11.001	S154	34.6	1.493	0.145	0.3674	
15 minute summer	S154	11.002	S155	39.9	1.119	0.245	0.2642	
15 minute summer	S155	11.003	S125	40.1	1.561	0.093	0.1548	
15 minute summer	S156	13.001	S159	8.3	1.412	0.088	0.0450	
15 minute summer	S157	13.000	S156	8.4	1.478	0.080	0.2262	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S158	10	38.488	0.088	39.7	0.1551	0.0000	OK
15 minute summer	S159	11	37.783	0.183	61.3	0.3228	0.0000	OK
15 minute summer	S160A	10	37.803	0.053	7.3	0.0595	0.0000	OK
15 minute summer	S160B	10	37.715	0.054	7.2	0.0605	0.0000	OK
15 minute summer	S160C	11	37.662	0.049	7.1	0.0552	0.0000	OK
15 minute summer	S160	10	37.601	0.051	18.4	0.0575	0.0000	OK
15 minute summer	S161	11	36.294	0.094	37.5	0.1060	0.0000	OK
15 minute summer	S162	11	36.629	0.029	1.7	0.0327	0.0000	OK
15 minute summer	S163	10	40.335	0.060	5.5	0.0675	0.0000	OK
15 minute summer	S164	10	40.288	0.063	6.4	0.0712	0.0000	OK
15 minute summer	S165	10	40.174	0.085	11.7	0.0957	0.0000	OK
15 minute summer	S166	11	40.076	0.058	11.6	0.0662	0.0000	OK
15 minute summer	S167	11	39.962	0.062	14.0	0.0697	0.0000	OK
15 minute summer	S168	11	39.721	0.071	28.2	0.0798	0.0000	OK
15 minute summer	S169	11	37.884	0.084	32.9	0.0953	0.0000	OK
15 minute summer	S170	11	37.537	0.087	35.5	0.0980	0.0000	OK
15 minute summer	S171	11	37.068	0.143	64.0	0.2043	0.0000	OK
15 minute summer	S172	11	36.921	0.146	67.7	0.2087	0.0000	OK
15 minute summer	S173	11	36.723	0.098	80.7	0.1409	0.0000	OK
15 minute summer	S174	11	34.678	0.227	107.3	0.3249	0.0000	OK
15 minute summer	S175	11	34.489	0.108	108.7	0.1541	0.0000	OK
15 minute summer	S176	11	34.009	0.281	117.6	0.4957	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S158	12.000	S159	39.2	0.872	0.048	2.7804	
15 minute summer	S159	12.001	S129	60.1	0.925	0.197	1.6048	
15 minute summer	S160A	14.000_1	S160B	7.2	0.691	0.027	0.1395	
15 minute summer	S160B	14.001_1	S160C	7.1	0.722	0.027	0.0715	
15 minute summer	S160C	14.002	S160	7.2	0.756	0.022	0.0591	
15 minute summer	S160	14.000	S161	18.1	1.882	0.026	0.2527	
15 minute summer	S161	14.001	S130	36.9	1.336	0.053	1.8829	
15 minute summer	S162	15.000	S161	1.7	0.500	0.019	0.0509	
15 minute summer	S163	16.000	S164	5.5	0.624	0.136	0.0732	
15 minute summer	S164	16.001	S165	6.2	0.716	0.156	0.0896	
15 minute summer	S165	16.002	S166	11.6	0.909	0.166	0.2289	
15 minute summer	S166	16.003	S167	11.7	1.169	0.070	0.0530	
15 minute summer	S167	16.004	S168	14.0	1.224	0.088	0.1398	
15 minute summer	S168	16.005	S169	28.1	1.956	0.123	0.6356	
15 minute summer	S169	16.006	S170	33.0	2.001	0.147	0.1432	
15 minute summer	S170	16.007	S171	35.6	2.248	0.155	0.1679	
15 minute summer	S171	16.008	S172	64.1	1.643	0.229	0.2990	
15 minute summer	S172	16.009	S173	67.8	2.181	0.233	0.2223	
15 minute summer	S173	16.010	S174	80.8	3.650	0.138	0.5091	
15 minute summer	S174	16.011	S175	107.7	1.679	0.353	2.3239	
15 minute summer	S175	16.012	S176	108.8	3.102	0.056	0.2489	
15 minute summer	S176	16.013	S177	117.1	0.818	0.214	0.8742	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S177	12	33.983	0.267	127.8	0.4710	0.0000	OK
15 minute summer	S178	12	33.940	0.301	127.2	0.5310	0.0000	OK
15 minute summer	S179	12	33.914	0.302	156.7	0.5342	0.0000	OK
15 minute summer	S180	12	33.855	0.311	158.2	0.5500	0.0000	OK
15 minute summer	S181	10	39.906	0.031	4.5	0.0349	0.0000	OK
15 minute summer	S182	10	38.999	0.049	11.3	0.0552	0.0000	OK
15 minute summer	S183	10	37.969	0.069	19.2	0.0778	0.0000	OK
15 minute summer	S184	11	37.475	0.095	19.0	0.1077	0.0000	OK
15 minute summer	S185	11	37.367	0.067	30.7	0.0762	0.0000	OK
15 minute summer	S186	11	35.012	0.062	30.7	0.0698	0.0000	OK
15 minute summer	S187	10	38.019	0.044	4.7	0.0497	0.0000	OK
15 minute summer	S188	10	37.803	0.078	9.8	0.0888	0.0000	OK
15 minute summer	S189	11	37.705	0.076	9.7	0.0856	0.0000	OK
15 minute summer	S190	11	37.603	0.103	25.9	0.1169	0.0000	OK
15 minute summer	S191	11	37.454	0.079	27.2	0.0890	0.0000	OK
15 minute summer	S192	10	37.824	0.049	4.2	0.0550	0.0000	OK
15 minute summer	S193	10	38.045	0.070	11.4	0.0787	0.0000	OK
15 minute summer	S194	10	34.902	0.052	7.4	0.0592	0.0000	OK
15 minute summer	S195	10	34.794	0.068	11.6	0.0773	0.0000	OK
15 minute summer	S196	11	34.721	0.074	11.4	0.0841	0.0000	OK
15 minute summer	S197	10	34.304	0.054	8.1	0.0606	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S177	16.014	S178	125.2	0.857	0.227	5.8467	
15 minute summer	S178	16.015	S179	125.7	0.760	0.231	2.2712	
15 minute summer	S179	16.016	S180	157.0	0.927	0.286	5.7558	
15 minute summer	S180	16.017	S132	156.5	0.929	0.286	2.9717	
15 minute summer	S181	22.000	S182	4.5	1.386	0.039	0.0570	
15 minute summer	S182	22.001	S183	11.1	1.147	0.058	0.3483	
15 minute summer	S183	22.002	S184	19.0	1.223	0.117	0.3836	
15 minute summer	S184	22.003	S185	19.0	1.236	0.194	0.1582	
15 minute summer	S185	22.004	S186	30.7	2.769	0.104	0.3759	
15 minute summer	S186	22.005	S179	30.8	3.161	0.078	0.0676	
15 minute summer	S187	17.000	S188	4.6	0.868	0.080	0.0851	
15 minute summer	S188	17.001	S189	9.7	0.813	0.243	0.1930	
15 minute summer	S189	17.002	S190	9.8	0.883	0.211	0.0748	
15 minute summer	S190	17.003	S191	26.0	1.440	0.218	0.1972	
15 minute summer	S191	17.004	S171	27.2	1.957	0.130	0.1488	
15 minute summer	S192	18.000	S188	4.2	0.453	0.104	0.0775	
15 minute summer	S193	19.000	S190	11.1	1.089	0.200	0.3588	
15 minute summer	S194	20.000	S195	7.3	0.581	0.029	0.2636	
15 minute summer	S195	20.001	S196	11.4	0.718	0.046	0.2114	
15 minute summer	S196	20.002	S174	11.5	0.707	0.052	0.1734	
15 minute summer	S197	21.000	S198	8.0	0.689	0.031	0.3435	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S198	11	34.115	0.061	8.0	0.0694	0.0000	OK
15 minute summer	Junction 1	11	49.043	0.087	24.8	0.0000	0.0000	OK
15 minute summer	Junction 2	11	48.685	0.114	34.3	0.0000	0.0000	OK
15 minute summer	S1	10	50.834	0.059	6.2	0.0667	0.0000	OK
15 minute summer	S2	11	50.667	0.072	7.5	0.0814	0.0000	OK
15 minute summer	S3	11	50.639	0.087	10.9	0.0986	0.0000	OK
15 minute summer	S4	11	50.526	0.086	11.6	0.0978	0.0000	OK
15 minute summer	S5	11	50.467	0.087	11.7	0.0981	0.0000	OK
15 minute summer	S6	11	50.438	0.076	21.9	0.0857	0.0000	OK
15 minute summer	S7	11	49.576	0.076	26.9	0.0863	0.0000	OK
15 minute summer	S8	11	49.176	0.076	30.0	0.0857	0.0000	OK
15 minute summer	S9	11	48.782	0.082	31.7	0.0929	0.0000	OK
15 minute summer	S10	11	48.388	0.088	37.6	0.0996	0.0000	OK
15 minute summer	S11	11	47.790	0.090	43.5	0.1016	0.0000	OK
15 minute summer	S12	11	47.096	0.096	43.5	0.1091	0.0000	OK
15 minute summer	S13	11	46.570	0.120	104.6	0.1718	0.0000	OK
15 minute summer	S14	11	45.475	0.125	106.2	0.1787	0.0000	OK
15 minute summer	S15	11	44.900	0.150	108.0	0.2140	0.0000	OK
15 minute summer	S16	11	44.594	0.144	108.8	0.2063	0.0000	OK
15 minute summer	S17	11	44.274	0.152	126.6	0.2174	0.0000	OK
15 minute summer	S18	11	43.886	0.136	129.6	0.1943	0.0000	OK
15 minute summer	S19	11	42.044	0.141	193.7	0.2489	0.0000	OK
15 minute summer	S20	11	40.643	0.193	193.7	0.3407	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S198	21.001	S176	8.0	0.652	0.035	0.0645	
15 minute summer	Junction 1	1.005	S103	24.9	1.513	0.173	0.2272	
15 minute summer	Junction 2	1.007	S104	34.4	1.224	0.193	0.5142	
15 minute summer	S1	23.000	S2	6.1	0.644	0.153	0.2869	
15 minute summer	S2	23.001	S3	7.4	0.590	0.185	0.0903	
15 minute summer	S3	23.002	S4	10.9	0.817	0.275	0.0838	
15 minute summer	S4	23.003	S5	11.7	0.694	0.165	0.2470	
15 minute summer	S5	23.004	S6	11.7	0.770	0.165	0.0677	
15 minute summer	S6	23.005	S7	21.9	1.564	0.137	0.5850	
15 minute summer	S7	23.006	S8	26.9	1.921	0.125	0.1515	
15 minute summer	S8	23.007	S9	30.0	2.032	0.122	0.1223	
15 minute summer	S9	23.008	S10	31.7	1.931	0.146	0.1735	
15 minute summer	S10	23.009	S11	37.6	2.153	0.171	0.2710	
15 minute summer	S11	23.010	S12	43.5	2.338	0.179	0.2760	
15 minute summer	S12	23.011	S13	43.5	2.413	0.180	0.1541	
15 minute summer	S13	23.012	S14	104.7	3.003	0.144	0.7589	
15 minute summer	S14	23.013	S15	106.2	2.601	0.146	0.4900	
15 minute summer	S15	23.014	S16	108.0	2.407	0.177	0.3820	
15 minute summer	S16	23.015	S17	108.8	2.398	0.167	0.3672	
15 minute summer	S17	23.016	S18	126.6	2.902	0.173	0.3183	
15 minute summer	S18	23.017	S19	129.3	3.346	0.181	1.2371	
15 minute summer	S19	23.018	S20	193.2	2.655	0.081	2.8669	
15 minute summer	S20	23.019	S21	192.0	1.934	0.089	0.6544	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S21	11	40.474	0.224	192.7	0.3953	0.0000	OK
15 minute summer	S22	12	40.338	0.188	193.8	0.3321	0.0000	OK
15 minute summer	S23	12	40.077	0.227	196.3	0.4009	0.0000	OK
15 minute summer	S24	12	39.923	0.223	216.1	0.3948	0.0000	OK
15 minute summer	S25	12	39.682	0.282	224.6	0.7171	0.0000	OK
15 minute summer	S26	12	39.450	0.150	329.2	0.3816	0.0000	OK
15 minute summer	S27	12	37.548	0.498	352.9	1.6041	0.0000	OK
15 minute summer	S28	12	37.490	0.456	366.5	1.1605	0.0000	OK
15 minute summer	S29	13	37.334	0.390	363.2	0.9918	0.0000	OK
15 minute summer	S30	13	37.134	0.202	387.1	0.5139	0.0000	OK
15 minute summer	S31	12	35.531	0.261	432.7	0.6651	0.0000	OK
15 minute summer	S32	13	34.303	0.243	435.0	0.6192	0.0000	OK
15 minute summer	S33	13	33.018	0.268	440.6	0.6830	0.0000	OK
15 minute summer	S34	10	51.023	0.048	7.4	0.0543	0.0000	OK
15 minute summer	S35	10	50.836	0.061	8.1	0.0687	0.0000	OK
15 minute summer	S36	11	50.679	0.079	21.3	0.0890	0.0000	OK
15 minute summer	S37	11	50.469	0.069	27.5	0.0785	0.0000	OK
15 minute summer	S38	11	49.380	0.080	32.2	0.0903	0.0000	OK
15 minute summer	S39	11	48.976	0.076	39.2	0.0864	0.0000	OK
15 minute summer	S40	11	46.844	0.143	54.8	0.2043	0.0000	OK
15 minute summer	S36D	10	51.990	0.040	3.6	0.0458	0.0000	OK
15 minute summer	S36C	10	51.688	0.043	6.0	0.0485	0.0000	OK
15 minute summer	S36B	10	51.283	0.063	11.4	0.0713	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S21	23.020	S22	192.7	1.971	0.131	0.6963	
15 minute summer	S22	23.021	S23	194.7	1.966	0.109	1.4337	
15 minute summer	S23	23.022	S24	197.4	1.778	0.148	1.4223	
15 minute summer	S24	23.023	S25	217.8	1.673	0.161	3.2618	
15 minute summer	S25	23.024	S26	226.2	2.161	0.307	2.9973	
15 minute summer	S26	23.025	S27	329.5	1.842	0.092	5.0222	
15 minute summer	S27	23.026	S28	349.8	1.184	0.634	2.3476	
15 minute summer	S28	23.027	S29	363.2	1.420	0.662	11.5510	
15 minute summer	S29	23.028	S30	385.8	2.392	0.690	0.9485	
15 minute summer	S30	23.029	S31	363.9	4.058	0.140	3.0653	
15 minute summer	S31	23.030	S32	435.0	3.015	0.173	11.0333	
15 minute summer	S32	23.031	S33	440.6	2.974	0.157	9.8253	
15 minute summer	S33	23.032	HW2	440.7	5.985	0.182	1.0674	
15 minute summer	S34	24.000	S35	7.4	0.999	0.097	0.0696	
15 minute summer	S35	24.001	S36	8.0	0.970	0.141	0.0698	
15 minute summer	S36	24.002	S37	21.3	1.582	0.127	0.1193	
15 minute summer	S37	24.003	S38	27.6	2.021	0.118	0.3419	
15 minute summer	S38	24.004	S39	32.3	2.219	0.130	0.1174	
15 minute summer	S39	24.005	S40	39.3	2.850	0.135	0.4337	
15 minute summer	S40	24.006	S13	55.0	1.517	0.267	0.6040	
15 minute summer	S36D	24.000_1	S36C	3.6	0.954	0.150	0.0480	
15 minute summer	S36C	24.001_1	S36B	5.9	1.148	0.075	0.0797	
15 minute summer	S36B	24.002_1	S36A	11.3	1.143	0.091	0.3358	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S36A	11	50.856	0.056	12.7	0.0636	0.0000	OK
15 minute summer	S41	10	47.657	0.032	5.2	0.0364	0.0000	OK
15 minute summer	S42	11	46.986	0.086	12.6	0.0976	0.0000	OK
15 minute summer	S45	10	49.567	0.066	14.5	0.0746	0.0000	OK
15 minute summer	S46	10	48.630	0.080	41.6	0.0905	0.0000	OK
15 minute summer	S47	10	44.105	0.105	46.1	0.1185	0.0000	OK
15 minute summer	S48	11	43.514	0.089	47.4	0.1274	0.0000	OK
15 minute summer	S50	11	42.654	0.116	51.3	0.1653	0.0000	OK
15 minute summer	S51	11	42.482	0.132	52.6	0.1894	0.0000	OK
15 minute summer	S52	11	42.376	0.201	55.7	0.3549	0.0000	OK
15 minute summer	S53	11	42.341	0.193	62.2	0.3409	0.0000	OK
15 minute summer	S54	10	44.067	0.042	6.8	0.0477	0.0000	OK
15 minute summer	S55	10	46.147	0.072	8.7	0.0812	0.0000	OK
15 minute summer	S56	10	46.032	0.057	15.9	0.0650	0.0000	OK
15 minute summer	S57	10	44.831	0.056	17.2	0.0632	0.0000	OK
15 minute summer	S58	10	44.488	0.113	17.1	0.1281	0.0000	OK
15 minute summer	S59	10	44.394	0.094	15.1	0.1061	0.0000	OK
15 minute summer	S60	11	44.199	0.104	15.6	0.1175	0.0000	OK
15 minute summer	S61	11	43.268	0.135	34.3	0.1938	0.0000	OK
15 minute summer	S62	11	43.199	0.107	36.3	0.1533	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S36A	24.003_1	S36	12.7	1.070	0.074	0.1006	
15 minute summer	S41	25.000	S42	5.2	1.523	0.042	0.0391	
15 minute summer	S42	25.001	S40	12.4	0.754	0.175	0.4965	
15 minute summer	S45	27.002	S46	14.3	1.497	0.181	0.3650	
15 minute summer	S46	27.003	S47	40.8	2.741	0.153	1.1736	
15 minute summer	S47	27.004	S48	46.1	2.051	0.153	0.5722	
15 minute summer	S48	28.003	S50	47.7	2.488	0.112	0.3471	
15 minute summer	S50	27.007	S51	51.4	1.450	0.121	0.3864	
15 minute summer	S51	27.008	S52	52.7	1.422	0.146	0.3005	
15 minute summer	S52	27.009	S53	55.7	0.754	0.259	0.9994	
15 minute summer	S53	27.010	S19	61.9	0.958	0.285	0.6341	
15 minute summer	S54	28.000	S53	6.7	1.670	0.167	0.1193	
15 minute summer	S55	26.000	S56	8.6	0.917	0.202	0.1394	
15 minute summer	S56	26.001	S57	15.8	2.020	0.136	0.1900	
15 minute summer	S57	26.002	S58	17.1	1.255	0.136	0.0957	
15 minute summer	S58	26.003	S17	17.0	0.912	0.423	0.0870	
15 minute summer	S59	31.000	S60	14.9	0.756	0.211	0.9994	
15 minute summer	S60	31.001	S61	15.5	0.766	0.219	0.1187	
15 minute summer	S61	30.005	S62	34.3	1.113	0.267	0.3056	
15 minute summer	S62	30.006	S63	36.1	1.654	0.154	0.3915	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S63	11	42.933	0.083	55.2	0.1191	0.0000	OK
15 minute summer	S64	11	40.795	0.172	67.4	0.2463	0.0000	OK
15 minute summer	S65	11	40.685	0.096	76.8	0.1374	0.0000	OK
15 minute summer	S66	12	39.968	0.237	91.6	0.3390	0.0000	OK
15 minute summer	S67	12	39.898	0.206	96.1	0.2946	0.0000	OK
15 minute summer	S68	10	43.695	0.070	8.0	0.0793	0.0000	OK
15 minute summer	S69	10	43.610	0.080	9.5	0.0903	0.0000	OK
15 minute summer	S70	11	43.556	0.084	10.6	0.0950	0.0000	OK
15 minute summer	S71	11	43.444	0.104	17.2	0.1173	0.0000	OK
15 minute summer	S72	11	43.341	0.111	17.7	0.1260	0.0000	OK
15 minute summer	S73	11	43.602	0.052	5.2	0.0583	0.0000	OK
15 minute summer	S74	10	41.457	0.032	5.0	0.0363	0.0000	OK
15 minute summer	S75	10	40.821	0.076	12.2	0.0854	0.0000	OK
15 minute summer	S76	11	40.796	0.129	12.1	0.1460	0.0000	OK
15 minute summer	S77	10	39.983	0.083	14.7	0.1191	0.0000	OK
15 minute summer	S78	12	39.969	0.203	15.7	0.2911	0.0000	OK
15 minute summer	S79	10	42.629	0.054	10.7	0.0606	0.0000	OK
15 minute summer	S80	10	41.873	0.058	17.7	0.0657	0.0000	OK
15 minute summer	S81	10	40.495	0.070	17.6	0.0794	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S63	30.007	S64	55.2	2.754	0.110	0.7078	
15 minute summer	S64	30.008	S65	66.9	1.691	0.322	0.3285	
15 minute summer	S65	30.009	S66	76.6	1.454	0.103	0.8797	
15 minute summer	S66	30.010	S67	91.8	1.182	0.492	0.9014	
15 minute summer	S67	30.011	S26	96.9	1.481	0.357	0.8542	
15 minute summer	S68	30.000	S69	7.9	0.685	0.198	0.1848	
15 minute summer	S69	30.001	S70	9.4	0.723	0.234	0.1268	
15 minute summer	S70	30.002	S71	10.7	0.825	0.266	0.1232	
15 minute summer	S71	30.003	S72	17.4	0.767	0.245	0.6079	
15 minute summer	S72	30.004	S61	17.6	0.794	0.247	0.1172	
15 minute summer	S73	32.000	S63	5.1	0.957	0.248	0.1903	
15 minute summer	S74	33.000	S75	4.9	1.105	0.015	0.0964	
15 minute summer	S75	33.001	S76	12.1	0.537	0.063	0.6093	
15 minute summer	S76	33.002	S64	11.5	0.262	0.047	0.3510	
15 minute summer	S77	34.000	S78	14.3	0.465	0.077	1.7939	
15 minute summer	S78	34.001	S66	15.3	0.235	0.083	0.8189	
15 minute summer	S79	29.000	S80	10.6	1.387	0.124	0.2148	
15 minute summer	S80	29.001	S81	17.6	1.888	0.147	0.2468	
15 minute summer	S81	29.002	S24	17.4	1.802	0.165	0.0477	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S82	10	40.306	0.056	12.8	0.0635	0.0000	OK
15 minute summer	S83	10	39.040	0.040	12.6	0.0453	0.0000	OK
15 minute summer	S84	10	37.764	0.062	27.5	0.1102	0.0000	OK
15 minute summer	S89	10	40.333	0.048	11.8	0.0543	0.0000	OK
15 minute summer	S90	10	38.402	0.102	11.6	0.1154	0.0000	OK
15 minute summer	S91	10	38.390	0.109	18.1	0.1237	0.0000	OK
15 minute summer	S92	11	38.293	0.092	26.4	0.1043	0.0000	OK
15 minute summer	S93	11	38.077	0.077	26.5	0.0872	0.0000	OK
15 minute summer	S94	11	37.686	0.086	39.5	0.0968	0.0000	OK
15 minute summer	Junction 3	11	36.290	0.130	82.4	0.0000	0.0000	OK
15 minute summer	S95	10	38.757	0.032	1.7	0.0359	0.0000	OK
15 minute summer	S96	11	38.624	0.024	1.7	0.0268	0.0000	OK
15 minute summer	Junction 4	11	38.356	0.108	19.7	0.0000	0.0000	OK
15 minute summer	S97	10	36.541	0.094	43.8	0.1662	0.0000	OK
30 minute summer	Dummy 1	25	32.634	0.068	5.5	0.0000	0.0000	OK
15 minute summer	R1	10	41.405	0.005	1.0	0.0000	0.0000	OK
15 minute summer	R2	11	41.207	0.007	1.3	0.0000	0.0000	OK
15 minute summer	R3	10	41.113	0.013	4.1	0.0000	0.0000	OK
15 minute summer	R4	11	39.917	0.017	6.4	0.0000	0.0000	OK
15 minute summer	R5	11	39.423	0.023	10.0	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S82	35.000	S83	12.6	1.656	0.132	0.2681	
15 minute summer	S83	35.001	S84	12.6	2.346	0.035	0.0430	
15 minute summer	S84	35.002	S27	27.2	0.772	0.015	4.7375	
15 minute summer	S89	38.000	S90	11.6	1.903	0.097	0.2234	
15 minute summer	S90	38.001	S91	11.5	0.522	0.161	0.1007	
15 minute summer	S91	38.002	Junction 4	18.0	0.782	0.257	0.1889	
15 minute summer	S92	38.004	S93	26.5	1.626	0.173	0.1741	
15 minute summer	S93	38.005	S94	26.6	1.725	0.134	0.1954	
15 minute summer	S94	38.006	Junction 3	39.6	2.430	0.173	0.4426	
15 minute summer	Junction 3	38.007	S31	82.5	1.858	0.104	1.9621	
15 minute summer	S95	39.000	S96	1.7	0.763	0.088	0.0235	
15 minute summer	S96	39.001	Junction 4	1.7	0.969	0.052	0.0105	
15 minute summer	Junction 4	38.003	S92	19.7	0.962	0.281	0.2391	
15 minute summer	S97	40.000	Junction 3	43.6	1.226	0.055	0.7802	
15 minute summer	R1	41.000	R2	1.0	0.350	0.003	0.0120	
15 minute summer	R2	41.001	R3	1.3	0.275	0.005	0.0160	
15 minute summer	R3	41.002	R4	4.0	0.547	0.014	0.2607	
15 minute summer	R4	41.003	R5	6.3	0.629	0.023	0.1624	
15 minute summer	R5	41.004	R6	10.0	0.742	0.038	0.5213	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	R6	11	38.331	0.031	15.5	0.0000	0.0000	OK
15 minute summer	R7	11	37.439	0.039	20.3	0.0000	0.0000	OK
15 minute summer	R8	11	36.338	0.038	21.3	0.0000	0.0000	OK
15 minute summer	R9	11	36.078	0.048	23.7	0.0000	0.0000	OK
15 minute summer	R10	12	35.872	0.062	24.2	0.0000	0.0000	OK
15 minute summer	R11	12	35.806	0.046	26.2	0.0000	0.0000	OK
15 minute summer	R12	12	35.462	0.072	30.9	0.0000	0.0000	OK
15 minute summer	R13	12	35.412	0.052	30.5	0.0000	0.0000	OK
15 minute summer	R14	12	35.051	0.031	30.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	R6	41.005	R7	15.5	0.889	0.060	0.5622	
15 minute summer	R7	41.006	R8	20.1	1.049	0.087	0.9403	
15 minute summer	R8	41.007	R9	20.9	0.973	0.084	0.2208	
15 minute summer	R9	41.008	R10	23.5	0.857	0.123	0.3949	
15 minute summer	R10	41.009	R11	24.0	0.897	0.179	0.1771	
15 minute summer	R11	41.010	R12	26.1	0.890	0.113	0.4795	
15 minute summer	R12	41.011	R13	30.5	0.983	0.227	0.1224	
15 minute summer	R13	41.012	R14	30.7	1.464	0.129	0.3007	
15 minute summer	R14	Weir	HW2	30.8				14.5

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	HW2	29	32.999	0.433	2626.1	1046.2750	0.0000	SURCHARGED
15 minute summer	S98	10	49.879	0.089	15.9	0.1001	0.0000	OK
15 minute summer	S99	10	49.504	0.109	15.8	0.1229	0.0000	OK
15 minute summer	S100	10	49.464	0.134	24.6	0.1520	0.0000	OK
15 minute summer	S101	10	49.321	0.161	42.9	0.1816	0.0000	OK
15 minute summer	S102	10	49.238	0.138	52.6	0.1560	0.0000	OK
15 minute summer	S103	11	48.833	0.208	81.7	0.2983	0.0000	OK
15 minute summer	S104	11	48.646	0.220	119.5	0.3155	0.0000	OK
15 minute summer	S105	11	48.462	0.237	124.4	0.3395	0.0000	OK
15 minute summer	S106	11	48.316	0.191	140.4	0.2739	0.0000	OK
15 minute summer	S107	11	48.027	0.202	178.6	0.2890	0.0000	OK
15 minute summer	S108	11	47.067	0.142	181.3	0.2025	0.0000	OK
15 minute summer	S109	11	46.332	0.457	279.8	0.6543	0.0000	SURCHARGED
15 minute summer	S110	12	46.039	0.203	273.9	0.2911	0.0000	OK
15 minute summer	S111	11	44.793	0.393	312.6	0.6939	0.0000	OK
15 minute summer	S112	11	44.651	0.417	320.0	0.7366	0.0000	OK
15 minute summer	S113	11	44.546	0.374	321.3	0.6613	0.0000	OK
15 minute summer	S114	11	44.415	0.299	324.5	0.5288	0.0000	OK
15 minute summer	S115	11	44.178	0.278	338.0	0.4906	0.0000	OK
15 minute summer	S116	11	43.880	0.280	340.5	0.4947	0.0000	OK
15 minute summer	S117	11	43.618	0.318	352.3	0.5627	0.0000	OK
15 minute summer	S118	12	43.397	0.297	357.6	0.5247	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute summer	HW2	Dummy Pipe	Dummy 1	60.1	3.412	3.399	0.0174	113.2
30 minute summer	HW2	Infiltration		132.8				
30 minute summer	HW2	Infiltration		314.3				
15 minute summer	S98	1.000	S99	15.8	1.519	0.588	0.1468	
15 minute summer	S99	1.001	S100	15.6	0.715	0.390	0.2377	
15 minute summer	S100	1.002	S101	24.4	1.029	0.606	0.3737	
15 minute summer	S101	1.003	S102	42.8	1.228	0.484	0.3312	
15 minute summer	S102	1.004	Junction 1	52.5	1.523	0.362	0.2923	
15 minute summer	S103	1.006	Junction 2	81.9	1.290	0.456	0.4249	
15 minute summer	S104	1.008	S105	120.1	1.705	0.499	0.9776	
15 minute summer	S105	1.009	S106	124.7	1.916	0.553	0.5136	
15 minute summer	S106	1.010	S107	140.6	2.404	0.365	0.4770	
15 minute summer	S107	1.011	S108	178.9	3.638	0.452	1.1435	
15 minute summer	S108	1.012	S109	181.3	2.668	0.271	0.6524	
15 minute summer	S109	1.013	S110	273.9	2.271	1.900	2.2011	
15 minute summer	S110	1.014	S111	274.1	3.675	0.380	2.0387	
15 minute summer	S111	1.015	S112	312.9	1.547	0.588	5.5918	
15 minute summer	S112	1.016	S113	318.5	1.619	0.601	2.0546	
15 minute summer	S113	1.017	S114	320.2	1.975	0.599	1.5081	
15 minute summer	S114	1.018	S115	324.0	2.431	0.334	1.4640	
15 minute summer	S115	1.019	S116	336.7	2.638	0.287	1.3298	
15 minute summer	S116	1.020	S117	340.4	2.436	0.274	1.3008	
15 minute summer	S117	1.021	S118	352.1	2.425	0.352	1.3787	
15 minute summer	S118	1.022	S119	358.6	2.594	0.296	1.1183	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S119	12	43.144	0.294	360.9	0.5201	0.0000	OK
15 minute summer	S120	12	42.840	0.240	370.4	0.4247	0.0000	OK
15 minute summer	S121	12	42.254	0.254	373.4	0.4495	0.0000	OK
15 minute summer	S122	11	41.849	0.249	520.5	0.4396	0.0000	OK
15 minute summer	S123	12	40.234	0.334	522.3	0.5899	0.0000	OK
15 minute summer	S124	12	39.806	0.356	530.2	0.6285	0.0000	OK
15 minute summer	S125	12	39.451	0.451	635.4	0.7974	0.0000	OK
15 minute summer	S126	12	39.181	0.481	641.9	0.8492	0.0000	OK
15 minute summer	S127	12	38.899	0.399	649.7	0.7049	0.0000	OK
15 minute summer	S128	12	38.413	0.413	656.9	0.7300	0.0000	OK
15 minute summer	S129	12	37.719	0.318	838.6	0.5619	0.0000	OK
15 minute summer	S130	12	35.721	0.371	938.6	0.6562	0.0000	OK
15 minute summer	S131	12	34.928	0.368	952.5	0.6504	0.0000	OK
15 minute summer	S132	12	34.083	0.574	1409.7	2.5973	0.0000	OK
15 minute summer	S133	12	33.705	0.488	1544.3	2.2065	0.0000	OK
15 minute summer	S134	13	33.140	0.498	1532.0	2.2531	0.0000	OK
15 minute summer	S135	10	49.766	0.081	15.4	0.0918	0.0000	OK
15 minute summer	S136	10	49.580	0.068	15.3	0.0768	0.0000	OK
15 minute summer	S137	10	48.974	0.059	23.7	0.0663	0.0000	OK
15 minute summer	S138	10	49.237	0.112	23.9	0.1272	0.0000	OK
15 minute summer	S137A	10	47.257	0.082	23.6	0.0931	0.0000	OK
15 minute summer	S139	10	49.852	0.077	18.9	0.0866	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S119	1.023	S120	361.8	2.981	0.303	1.0171	
15 minute summer	S120	1.024	S121	371.4	3.391	0.247	1.3876	
15 minute summer	S121	1.025	S122	374.3	3.387	0.218	0.7226	
15 minute summer	S122	1.026	S123	519.2	3.837	0.340	4.7008	
15 minute summer	S123	1.027	S124	525.9	3.154	0.390	1.9716	
15 minute summer	S124	1.028	S125	532.6	2.740	0.422	2.7008	
15 minute summer	S125	1.029	S126	638.8	2.720	0.493	1.9999	
15 minute summer	S126	1.030	S127	643.8	2.909	0.631	2.0155	
15 minute summer	S127	1.031	S128	651.8	3.212	0.547	3.4014	
15 minute summer	S128	1.032	S129	659.4	3.653	0.583	3.0056	
15 minute summer	S129	1.033	S130	842.3	4.266	0.355	11.0418	
15 minute summer	S130	1.034	S131	945.9	4.377	0.324	3.0778	
15 minute summer	S131	1.035	S132	955.1	3.351	0.385	7.2784	
15 minute summer	S132	1.036	S133	1409.5	2.180	0.844	44.0910	
15 minute summer	S133	1.037	S134	1532.0	2.506	0.667	40.6637	
15 minute summer	S134	1.038	HW2	1525.0	4.677	0.825	5.6249	
15 minute summer	S135	2.000	S136	15.3	1.336	0.242	0.1349	
15 minute summer	S136	2.001	S101	15.2	1.352	0.188	0.1374	
15 minute summer	S137	7.001	S137A	23.6	3.045	0.128	0.0616	
15 minute summer	S138	7.000	S137	23.7	1.717	0.413	0.2406	
15 minute summer	S137A	7.002	S147A	23.5	1.878	0.251	0.1561	
15 minute summer	S139	3.000	S140	18.8	1.616	0.234	0.2718	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S140	10	49.294	0.074	18.8	0.0836	0.0000	OK
15 minute summer	S141	10	49.403	0.078	16.9	0.0885	0.0000	OK
15 minute summer	S142	10	49.022	0.067	16.8	0.0757	0.0000	OK
15 minute summer	S143	10	49.237	0.062	14.4	0.0697	0.0000	OK
15 minute summer	S144	10	48.755	0.080	14.3	0.0910	0.0000	OK
15 minute summer	S145	10	49.234	0.059	15.4	0.0671	0.0000	OK
15 minute summer	S146	10	48.542	0.067	15.3	0.0758	0.0000	OK
15 minute summer	S147	10	46.902	0.051	9.5	0.0737	0.0000	OK
15 minute summer	S147A	10	46.662	0.112	49.3	0.1597	0.0000	OK
15 minute summer	S148	11	46.390	0.190	92.5	0.2148	0.0000	OK
15 minute summer	S149	10	43.535	0.060	23.4	0.0680	0.0000	OK
15 minute summer	S150	11	42.032	0.282	138.5	0.4982	0.0000	OK
15 minute summer	S151	10	42.584	0.109	28.4	0.1231	0.0000	OK
15 minute summer	S152	10	40.444	0.144	76.7	0.1634	0.0000	OK
15 minute summer	S153	10	39.765	0.190	100.5	0.2723	0.0000	OK
15 minute summer	S154	11	39.550	0.275	115.4	0.3930	0.0000	OK
15 minute summer	S155	11	39.486	0.230	114.1	0.3289	0.0000	OK
15 minute summer	S156	10	38.311	0.086	24.2	0.0974	0.0000	OK
15 minute summer	S157	10	39.898	0.073	24.4	0.0829	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S140	3.001	Junction 1	18.6	1.607	0.214	0.0828	
15 minute summer	S141	4.000	S142	16.8	1.519	0.234	0.2162	
15 minute summer	S142	4.001	Junction 2	16.7	1.746	0.176	0.0682	
15 minute summer	S143	5.000	S144	14.3	1.336	0.165	0.1946	
15 minute summer	S144	5.001	S104	14.2	1.191	0.229	0.0843	
15 minute summer	S145	6.000	S146	15.3	1.681	0.150	0.1662	
15 minute summer	S146	6.001	S106	15.2	1.653	0.158	0.0540	
15 minute summer	S147	8.000	S147A	9.4	0.480	0.028	0.5803	
15 minute summer	S147A	7.003	S148	48.8	1.057	0.136	1.3308	
15 minute summer	S148	7.004	S109	91.4	0.788	0.385	6.6572	
15 minute summer	S149	10.000	S150	23.3	2.835	0.143	0.1140	
15 minute summer	S150	9.001	S122	135.1	1.206	0.442	9.0269	
15 minute summer	S151	9.000	S150	28.1	1.535	0.431	0.4096	
15 minute summer	S152	11.000	S153	76.1	2.385	0.415	0.7669	
15 minute summer	S153	11.001	S154	100.0	1.845	0.419	0.9052	
15 minute summer	S154	11.002	S155	112.6	1.404	0.690	0.6741	
15 minute summer	S155	11.003	S125	113.2	1.803	0.263	0.5751	
15 minute summer	S156	13.001	S159	24.0	1.848	0.254	0.0993	
15 minute summer	S157	13.000	S156	24.2	1.930	0.231	0.4984	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S158	10	38.548	0.148	114.0	0.2611	0.0000	OK
15 minute summer	S159	11	37.923	0.323	176.7	0.5706	0.0000	OK
15 minute summer	S160A	10	37.841	0.091	20.9	0.1024	0.0000	OK
15 minute summer	S160B	10	37.754	0.093	20.8	0.1048	0.0000	OK
15 minute summer	S160C	10	37.698	0.085	20.6	0.0967	0.0000	OK
15 minute summer	S160	10	37.636	0.086	52.8	0.0976	0.0000	OK
15 minute summer	S161	10	36.361	0.161	108.1	0.1817	0.0000	OK
15 minute summer	S162	10	36.649	0.049	5.0	0.0549	0.0000	OK
15 minute summer	S163	10	40.386	0.111	15.9	0.1255	0.0000	OK
15 minute summer	S164	10	40.339	0.114	18.3	0.1293	0.0000	OK
15 minute summer	S165	10	40.237	0.148	34.0	0.1674	0.0000	OK
15 minute summer	S166	10	40.126	0.108	33.7	0.1218	0.0000	OK
15 minute summer	S167	10	40.011	0.111	40.5	0.1258	0.0000	OK
15 minute summer	S168	10	39.773	0.123	82.1	0.1389	0.0000	OK
15 minute summer	S169	10	37.961	0.161	95.9	0.1821	0.0000	OK
15 minute summer	S170	10	37.609	0.159	102.4	0.1794	0.0000	OK
15 minute summer	S171	11	37.224	0.299	183.5	0.4285	0.0000	OK
15 minute summer	S172	11	37.060	0.285	194.5	0.4079	0.0000	OK
15 minute summer	S173	11	36.803	0.178	231.9	0.2554	0.0000	OK
15 minute summer	S174	11	34.846	0.395	308.1	0.5651	0.0000	OK
15 minute summer	S175	11	34.600	0.219	312.6	0.3132	0.0000	OK
15 minute summer	S176	12	34.322	0.594	330.7	1.0503	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S158	12.000	S159	113.0	1.129	0.138	5.9075	
15 minute summer	S159	12.001	S129	174.7	1.261	0.573	3.4176	
15 minute summer	S160A	14.000_1	S160B	20.8	0.900	0.079	0.3081	
15 minute summer	S160B	14.001_1	S160C	20.6	0.928	0.078	0.1605	
15 minute summer	S160C	14.002	S160	20.4	0.980	0.063	0.1312	
15 minute summer	S160	14.000	S161	52.5	2.552	0.076	0.5398	
15 minute summer	S161	14.001	S130	109.1	1.688	0.156	5.0252	
15 minute summer	S162	15.000	S161	4.9	0.679	0.054	0.1078	
15 minute summer	S163	16.000	S164	15.8	0.795	0.394	0.1662	
15 minute summer	S164	16.001	S165	18.1	0.943	0.452	0.1967	
15 minute summer	S165	16.002	S166	33.7	1.179	0.482	0.5081	
15 minute summer	S166	16.003	S167	33.6	1.451	0.202	0.1229	
15 minute summer	S167	16.004	S168	40.4	1.598	0.253	0.3093	
15 minute summer	S168	16.005	S169	81.5	2.486	0.357	1.4489	
15 minute summer	S169	16.006	S170	95.1	2.498	0.424	0.3308	
15 minute summer	S170	16.007	S171	102.5	2.376	0.446	0.4994	
15 minute summer	S171	16.008	S172	184.1	1.998	0.656	0.7055	
15 minute summer	S172	16.009	S173	194.9	2.727	0.669	0.5026	
15 minute summer	S173	16.010	S174	232.2	4.653	0.397	1.1515	
15 minute summer	S174	16.011	S175	309.8	2.142	1.016	5.1040	
15 minute summer	S175	16.012	S176	311.7	2.987	0.159	0.9820	
15 minute summer	S176	16.013	S177	326.6	0.971	0.596	2.2350	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S177	12	34.299	0.583	357.5	1.0297	0.0000	OK
15 minute summer	S178	12	34.255	0.616	352.7	1.0881	0.0000	OK
15 minute summer	S179	12	34.223	0.611	440.3	1.0790	0.0000	OK
15 minute summer	S180	12	34.149	0.605	444.9	1.0698	0.0000	OK
15 minute summer	S181	10	39.927	0.052	12.9	0.0593	0.0000	OK
15 minute summer	S182	10	39.032	0.082	32.2	0.0931	0.0000	OK
15 minute summer	S183	10	38.022	0.122	55.4	0.1375	0.0000	OK
15 minute summer	S184	10	37.551	0.171	54.9	0.1937	0.0000	OK
15 minute summer	S185	10	37.417	0.117	89.2	0.1328	0.0000	OK
15 minute summer	S186	10	35.064	0.114	88.8	0.1284	0.0000	OK
15 minute summer	S187	10	38.050	0.075	13.4	0.0847	0.0000	OK
15 minute summer	S188	10	37.873	0.148	28.0	0.1677	0.0000	OK
15 minute summer	S189	11	37.770	0.141	27.6	0.1589	0.0000	OK
15 minute summer	S190	10	37.693	0.193	74.3	0.2179	0.0000	OK
15 minute summer	S191	11	37.516	0.141	77.5	0.1597	0.0000	OK
15 minute summer	S192	10	37.880	0.105	11.9	0.1193	0.0000	OK
15 minute summer	S193	10	38.103	0.128	32.9	0.1450	0.0000	OK
15 minute summer	S194	10	34.939	0.089	21.4	0.1002	0.0000	OK
15 minute summer	S195	11	34.856	0.130	33.8	0.1475	0.0000	OK
15 minute summer	S196	11	34.851	0.204	32.8	0.2309	0.0000	OK
15 minute summer	S197	10	34.339	0.089	23.4	0.1005	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S177	16.014	S178	347.0	0.997	0.630	14.4589	
15 minute summer	S178	16.015	S179	352.8	0.916	0.647	5.2916	
15 minute summer	S179	16.016	S180	441.4	1.154	0.803	12.9958	
15 minute summer	S180	16.017	S132	444.1	1.210	0.811	6.5460	
15 minute summer	S181	22.000	S182	12.8	1.873	0.112	0.1212	
15 minute summer	S182	22.001	S183	32.0	1.518	0.167	0.7546	
15 minute summer	S183	22.002	S184	54.9	1.607	0.338	0.8375	
15 minute summer	S184	22.003	S185	54.5	1.632	0.555	0.3425	
15 minute summer	S185	22.004	S186	88.8	3.628	0.302	0.8447	
15 minute summer	S186	22.005	S179	89.2	4.051	0.225	0.1826	
15 minute summer	S187	17.000	S188	13.3	1.029	0.228	0.2247	
15 minute summer	S188	17.001	S189	27.6	1.029	0.689	0.4328	
15 minute summer	S189	17.002	S190	27.8	1.144	0.598	0.1638	
15 minute summer	S190	17.003	S191	74.1	1.845	0.622	0.4377	
15 minute summer	S191	17.004	S171	77.7	1.961	0.372	0.4764	
15 minute summer	S192	18.000	S188	11.7	0.528	0.292	0.1918	
15 minute summer	S193	19.000	S190	32.3	1.427	0.581	0.7937	
15 minute summer	S194	20.000	S195	21.4	0.742	0.086	0.6149	
15 minute summer	S195	20.001	S196	32.8	0.818	0.131	0.7107	
15 minute summer	S196	20.002	S174	33.4	0.701	0.152	0.7813	
15 minute summer	S197	21.000	S198	23.2	0.858	0.088	1.7430	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S198	12	34.324	0.270	23.2	0.3050	0.0000	OK
15 minute summer	Junction 1	11	49.114	0.158	70.9	0.0000	0.0000	OK
15 minute summer	Junction 2	11	48.783	0.212	98.3	0.0000	0.0000	OK
15 minute summer	S1	10	50.879	0.104	17.9	0.1172	0.0000	OK
15 minute summer	S2	11	50.746	0.151	21.7	0.1710	0.0000	OK
15 minute summer	S3	11	50.723	0.171	31.4	0.1934	0.0000	OK
15 minute summer	S4	11	50.600	0.160	33.4	0.1807	0.0000	OK
15 minute summer	S5	11	50.536	0.156	33.6	0.1768	0.0000	OK
15 minute summer	S6	11	50.496	0.134	63.1	0.1513	0.0000	OK
15 minute summer	S7	11	49.640	0.140	77.5	0.1589	0.0000	OK
15 minute summer	S8	11	49.242	0.142	86.8	0.1611	0.0000	OK
15 minute summer	S9	11	48.855	0.155	91.6	0.1753	0.0000	OK
15 minute summer	S10	11	48.465	0.165	108.8	0.1870	0.0000	OK
15 minute summer	S11	11	47.870	0.170	126.1	0.1921	0.0000	OK
15 minute summer	S12	11	47.190	0.190	126.4	0.2152	0.0000	OK
15 minute summer	S13	11	46.671	0.221	303.0	0.3164	0.0000	OK
15 minute summer	S14	11	45.595	0.245	307.6	0.3508	0.0000	OK
15 minute summer	S15	11	45.057	0.307	313.3	0.4389	0.0000	OK
15 minute summer	S16	11	44.749	0.299	316.0	0.4276	0.0000	OK
15 minute summer	S17	11	44.433	0.311	367.1	0.4454	0.0000	OK
15 minute summer	S18	11	44.007	0.257	375.8	0.3673	0.0000	OK
15 minute summer	S19	11	42.151	0.248	563.0	0.4374	0.0000	OK
15 minute summer	S20	11	40.857	0.407	564.8	0.7194	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S198	21.001	S176	23.8	0.745	0.105	0.5497	
15 minute summer	Junction 1	1.005	S103	71.3	1.981	0.495	0.4967	
15 minute summer	Junction 2	1.007	S104	98.9	1.504	0.554	1.2023	
15 minute summer	S1	23.000	S2	17.7	0.796	0.441	0.6904	
15 minute summer	S2	23.001	S3	21.4	0.703	0.533	0.2183	
15 minute summer	S3	23.002	S4	31.5	1.045	0.791	0.1883	
15 minute summer	S4	23.003	S5	33.6	0.892	0.475	0.5526	
15 minute summer	S5	23.004	S6	33.7	1.023	0.476	0.1484	
15 minute summer	S6	23.005	S7	63.3	2.019	0.396	1.3102	
15 minute summer	S7	23.006	S8	77.8	2.382	0.363	0.3532	
15 minute summer	S8	23.007	S9	86.9	2.495	0.354	0.2881	
15 minute summer	S9	23.008	S10	91.7	2.398	0.423	0.4040	
15 minute summer	S10	23.009	S11	109.0	2.695	0.497	0.6276	
15 minute summer	S11	23.010	S12	126.4	2.863	0.521	0.6538	
15 minute summer	S12	23.011	S13	126.6	3.041	0.524	0.3550	
15 minute summer	S13	23.012	S14	303.3	3.660	0.416	1.8039	
15 minute summer	S14	23.013	S15	308.1	3.024	0.424	1.2177	
15 minute summer	S15	23.014	S16	313.6	2.765	0.515	0.9653	
15 minute summer	S16	23.015	S17	316.2	2.767	0.484	0.9254	
15 minute summer	S17	23.016	S18	367.3	3.486	0.501	0.7673	
15 minute summer	S18	23.017	S19	376.1	4.323	0.527	2.7857	
15 minute summer	S19	23.018	S20	563.4	3.053	0.236	7.2529	
15 minute summer	S20	23.019	S21	562.3	2.186	0.260	1.6879	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S21	11	40.692	0.442	564.2	0.7818	0.0000	OK
15 minute summer	S22	11	40.538	0.388	566.9	0.6853	0.0000	OK
15 minute summer	S23	11	40.308	0.458	570.8	0.8097	0.0000	OK
15 minute summer	S24	11	40.150	0.450	629.3	0.7947	0.0000	OK
15 minute summer	S25	12	39.903	0.503	649.5	1.2813	0.0000	OK
15 minute summer	S26	12	39.582	0.282	933.4	0.7179	0.0000	OK
15 minute summer	S27	12	38.258	1.208	1005.1	3.8924	0.0000	SURCHARGED
15 minute summer	S28	12	38.072	1.037	1060.7	2.6404	0.0000	SURCHARGED
15 minute summer	S29	12	37.600	0.656	1063.3	1.6706	0.0000	OK
15 minute summer	S30	12	37.314	0.382	1068.7	0.9711	0.0000	OK
15 minute summer	S31	12	35.761	0.491	1292.5	1.2502	0.0000	OK
15 minute summer	S32	12	34.522	0.462	1295.4	1.1766	0.0000	OK
15 minute summer	S33	13	33.211	0.461	1293.7	1.1736	0.0000	OK
15 minute summer	S34	10	51.063	0.088	21.4	0.0991	0.0000	OK
15 minute summer	S35	10	50.886	0.111	23.3	0.1257	0.0000	OK
15 minute summer	S36	10	50.746	0.145	61.6	0.1646	0.0000	OK
15 minute summer	S37	10	50.522	0.122	79.7	0.1382	0.0000	OK
15 minute summer	S38	10	49.452	0.152	93.2	0.1716	0.0000	OK
15 minute summer	S39	11	49.029	0.129	113.6	0.1458	0.0000	OK
15 minute summer	S40	11	46.983	0.282	158.4	0.4032	0.0000	OK
15 minute summer	S36D	10	52.023	0.073	10.5	0.0831	0.0000	OK
15 minute summer	S36C	10	51.720	0.075	17.4	0.0852	0.0000	OK
15 minute summer	S36B	10	51.329	0.109	33.1	0.1233	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S21	23.020	S22	563.1	2.258	0.383	1.7742	
15 minute summer	S22	23.021	S23	565.1	2.222	0.317	3.6964	
15 minute summer	S23	23.022	S24	568.5	2.065	0.425	3.5701	
15 minute summer	S24	23.023	S25	626.7	2.135	0.463	7.3558	
15 minute summer	S25	23.024	S26	643.8	2.798	0.875	6.5354	
15 minute summer	S26	23.025	S27	947.2	2.719	0.264	7.9661	
15 minute summer	S27	23.026	S28	1012.7	2.301	1.836	3.4990	
15 minute summer	S28	23.027	S29	1063.3	2.421	1.938	19.1762	
15 minute summer	S29	23.028	S30	1062.8	3.270	1.902	1.8410	
15 minute summer	S30	23.029	S31	1066.5	5.200	0.409	7.1738	
15 minute summer	S31	23.030	S32	1295.4	3.800	0.516	26.0680	
15 minute summer	S32	23.031	S33	1293.7	3.956	0.461	21.6735	
15 minute summer	S33	23.032	HW2	1286.4	7.239	0.531	2.8042	
15 minute summer	S34	24.000	S35	21.3	1.261	0.280	0.1589	
15 minute summer	S35	24.001	S36	23.1	1.268	0.408	0.1542	
15 minute summer	S36	24.002	S37	61.3	2.028	0.366	0.2686	
15 minute summer	S37	24.003	S38	79.3	2.538	0.339	0.7850	
15 minute summer	S38	24.004	S39	93.0	2.878	0.374	0.2609	
15 minute summer	S39	24.005	S40	113.2	3.018	0.390	1.2679	
15 minute summer	S40	24.006	S13	158.8	1.931	0.772	1.3661	
15 minute summer	S36D	24.000_1	S36C	10.4	1.260	0.436	0.1058	
15 minute summer	S36C	24.001_1	S36B	17.2	1.537	0.220	0.1733	
15 minute summer	S36B	24.002_1	S36A	32.9	1.460	0.265	0.7630	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S36A	10	50.905	0.105	36.9	0.1186	0.0000	OK
15 minute summer	S41	10	47.677	0.052	14.9	0.0592	0.0000	OK
15 minute summer	S42	10	47.056	0.156	36.2	0.1766	0.0000	OK
15 minute summer	S45	10	49.621	0.120	41.8	0.1356	0.0000	OK
15 minute summer	S46	10	48.693	0.143	119.9	0.1616	0.0000	OK
15 minute summer	S47	10	44.192	0.192	133.6	0.2166	0.0000	OK
15 minute summer	S48	10	43.585	0.160	137.0	0.2285	0.0000	OK
15 minute summer	S50	11	42.770	0.232	147.3	0.3316	0.0000	OK
15 minute summer	S51	11	42.629	0.279	151.1	0.3987	0.0000	OK
15 minute summer	S52	11	42.548	0.373	160.3	0.6591	0.0000	OK
15 minute summer	S53	11	42.494	0.346	179.5	0.6106	0.0000	OK
15 minute summer	S54	10	44.100	0.075	19.4	0.0854	0.0000	OK
15 minute summer	S55	10	46.205	0.130	24.9	0.1465	0.0000	OK
15 minute summer	S56	10	46.075	0.100	45.6	0.1129	0.0000	OK
15 minute summer	S57	10	44.887	0.112	49.4	0.1261	0.0000	OK
15 minute summer	S58	10	44.625	0.250	49.0	0.2826	0.0000	SURCHARGED
15 minute summer	S59	10	44.472	0.172	43.3	0.1947	0.0000	OK
15 minute summer	S60	11	44.284	0.189	44.8	0.2142	0.0000	OK
15 minute summer	S61	11	43.380	0.247	98.6	0.3532	0.0000	OK
15 minute summer	S62	11	43.288	0.196	104.4	0.2799	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S36A	24.003_1	S36	36.6	1.320	0.213	0.2354	
15 minute summer	S41	25.000	S42	14.9	1.726	0.120	0.1144	
15 minute summer	S42	25.001	S40	35.8	0.846	0.506	1.3326	
15 minute summer	S45	27.002	S46	41.2	1.972	0.523	0.8014	
15 minute summer	S46	27.003	S47	118.2	3.640	0.444	2.5580	
15 minute summer	S47	27.004	S48	133.0	2.636	0.441	1.2878	
15 minute summer	S48	28.003	S50	136.6	3.134	0.321	0.7977	
15 minute summer	S50	27.007	S51	147.8	1.600	0.347	1.0089	
15 minute summer	S51	27.008	S52	151.8	1.440	0.420	0.8583	
15 minute summer	S52	27.009	S53	160.8	1.021	0.747	2.1282	
15 minute summer	S53	27.010	S19	179.8	1.328	0.827	1.3258	
15 minute summer	S54	28.000	S53	19.2	2.208	0.478	0.2592	
15 minute summer	S55	26.000	S56	24.7	1.216	0.579	0.3002	
15 minute summer	S56	26.001	S57	45.4	2.481	0.391	0.4443	
15 minute summer	S57	26.002	S58	49.0	1.449	0.390	0.2053	
15 minute summer	S58	26.003	S17	48.7	1.243	1.214	0.1740	
15 minute summer	S59	31.000	S60	42.8	0.973	0.605	2.2011	
15 minute summer	S60	31.001	S61	44.6	1.036	0.630	0.2518	
15 minute summer	S61	30.005	S62	98.7	1.460	0.770	0.6681	
15 minute summer	S62	30.006	S63	104.6	2.160	0.447	0.8613	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S63	11	42.994	0.144	159.4	0.2057	0.0000	OK
15 minute summer	S64	11	40.942	0.319	195.5	0.4564	0.0000	OK
15 minute summer	S65	11	40.768	0.179	229.2	0.2561	0.0000	OK
15 minute summer	S66	12	40.297	0.566	263.7	0.8095	0.0000	SURCHARGED
15 minute summer	S67	12	40.155	0.463	274.6	0.6629	0.0000	SURCHARGED
15 minute summer	S68	10	43.757	0.132	22.9	0.1497	0.0000	OK
15 minute summer	S69	10	43.687	0.157	27.2	0.1779	0.0000	OK
15 minute summer	S70	11	43.633	0.161	30.2	0.1826	0.0000	OK
15 minute summer	S71	11	43.539	0.199	49.6	0.2255	0.0000	OK
15 minute summer	S72	11	43.435	0.205	50.5	0.2318	0.0000	OK
15 minute summer	S73	10	43.646	0.096	14.9	0.1090	0.0000	OK
15 minute summer	S74	10	41.477	0.052	14.4	0.0592	0.0000	OK
15 minute summer	S75	11	40.949	0.204	35.2	0.2308	0.0000	OK
15 minute summer	S76	11	40.942	0.275	33.7	0.3114	0.0000	OK
15 minute summer	S77	12	40.309	0.409	42.3	0.5858	0.0000	OK
15 minute summer	S78	12	40.301	0.535	41.6	0.7659	0.0000	SURCHARGED
15 minute summer	S79	10	42.670	0.095	30.9	0.1074	0.0000	OK
15 minute summer	S80	10	41.917	0.102	51.1	0.1151	0.0000	OK
15 minute summer	S81	10	40.562	0.137	50.8	0.1547	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S63	30.007	S64	159.6	2.848	0.319	1.9931	
15 minute summer	S64	30.008	S65	200.7	2.232	0.966	0.7306	
15 minute summer	S65	30.009	S66	221.7	1.803	0.297	1.7575	
15 minute summer	S66	30.010	S67	259.9	1.640	1.393	1.8398	
15 minute summer	S67	30.011	S26	274.0	1.834	1.011	1.9364	
15 minute summer	S68	30.000	S69	22.7	0.840	0.567	0.4306	
15 minute summer	S69	30.001	S70	26.7	0.893	0.668	0.2926	
15 minute summer	S70	30.002	S71	30.3	1.054	0.755	0.2737	
15 minute summer	S71	30.003	S72	49.6	0.983	0.700	1.3532	
15 minute summer	S72	30.004	S61	50.7	1.079	0.710	0.2478	
15 minute summer	S73	32.000	S63	14.5	1.242	0.708	0.4201	
15 minute summer	S74	33.000	S75	14.3	1.361	0.043	0.4597	
15 minute summer	S75	33.001	S76	33.7	0.575	0.177	1.9062	
15 minute summer	S76	33.002	S64	33.5	0.337	0.136	0.8350	
15 minute summer	S77	34.000	S78	39.7	0.557	0.214	6.2379	
15 minute summer	S78	34.001	S66	52.3	0.357	0.283	1.6835	
15 minute summer	S79	29.000	S80	30.7	1.842	0.358	0.4677	
15 minute summer	S80	29.001	S81	50.8	2.379	0.424	0.5646	
15 minute summer	S81	29.002	S24	50.4	2.273	0.479	0.1090	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S82	10	40.350	0.100	36.8	0.1126	0.0000	OK
15 minute summer	S83	10	39.070	0.070	36.4	0.0792	0.0000	OK
15 minute summer	S84	12	38.265	0.563	79.1	0.9942	0.0000	OK
15 minute summer	S89	10	40.366	0.081	33.9	0.0921	0.0000	OK
15 minute summer	S90	10	38.504	0.204	33.7	0.2313	0.0000	OK
15 minute summer	S91	10	38.489	0.208	52.2	0.2348	0.0000	OK
15 minute summer	S92	10	38.374	0.173	76.2	0.1952	0.0000	OK
15 minute summer	S93	11	38.142	0.142	75.8	0.1609	0.0000	OK
15 minute summer	S94	10	37.754	0.154	114.2	0.1743	0.0000	OK
15 minute summer	Junction 3	10	36.388	0.228	238.5	0.0000	0.0000	OK
15 minute summer	S95	10	38.780	0.055	5.0	0.0627	0.0000	OK
15 minute summer	S96	10	38.640	0.040	4.9	0.0447	0.0000	OK
15 minute summer	Junction 4	10	38.446	0.198	56.8	0.0000	0.0000	OK
15 minute summer	S97	10	36.615	0.168	125.9	0.2976	0.0000	OK
15 minute summer	Dummy 1	14	32.708	0.142	53.7	0.0000	0.0000	OK
15 minute summer	R1	10	41.409	0.009	3.0	0.0000	0.0000	OK
15 minute summer	R2	10	41.213	0.013	4.0	0.0000	0.0000	OK
15 minute summer	R3	10	41.124	0.024	12.0	0.0000	0.0000	OK
15 minute summer	R4	10	39.933	0.033	18.8	0.0000	0.0000	OK
15 minute summer	R5	11	39.445	0.045	29.5	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S82	35.000	S83	36.4	2.203	0.382	0.5815	
15 minute summer	S83	35.001	S84	36.3	3.115	0.100	0.1354	
15 minute summer	S84	35.002	S27	80.2	0.997	0.043	11.5457	
15 minute summer	S89	38.000	S90	33.7	2.203	0.282	0.6680	
15 minute summer	S90	38.001	S91	33.3	0.647	0.466	0.2343	
15 minute summer	S91	38.002	Junction 4	51.9	1.023	0.740	0.4171	
15 minute summer	S92	38.004	S93	75.8	2.032	0.496	0.3987	
15 minute summer	S93	38.005	S94	76.2	2.198	0.385	0.4393	
15 minute summer	S94	38.006	Junction 3	113.9	3.205	0.498	0.9644	
15 minute summer	Junction 3	38.007	S31	237.4	2.483	0.298	4.2236	
15 minute summer	S95	39.000	S96	4.9	1.033	0.254	0.0503	
15 minute summer	S96	39.001	Junction 4	4.9	1.265	0.150	0.0258	
15 minute summer	Junction 4	38.003	S92	56.4	1.244	0.803	0.5318	
15 minute summer	S97	40.000	Junction 3	125.4	1.554	0.157	1.7503	
15 minute summer	R1	41.000	R2	3.0	0.535	0.009	0.0236	
15 minute summer	R2	41.001	R3	4.0	0.425	0.015	0.0312	
15 minute summer	R3	41.002	R4	11.8	0.821	0.042	0.5091	
15 minute summer	R4	41.003	R5	18.5	0.942	0.068	0.3167	
15 minute summer	R5	41.004	R6	29.0	1.099	0.112	1.0265	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	R6	11	38.361	0.061	45.3	0.0000	0.0000	OK
15 minute summer	R7	11	37.478	0.078	58.9	0.0000	0.0000	OK
15 minute summer	R8	11	36.377	0.077	62.6	0.0000	0.0000	OK
15 minute summer	R9	11	36.130	0.100	70.6	0.0000	0.0000	OK
15 minute summer	R10	11	35.939	0.129	72.5	0.0000	0.0000	OK
15 minute summer	R11	11	35.854	0.094	79.0	0.0000	0.0000	OK
15 minute summer	R12	11	35.543	0.153	93.1	0.0000	0.0000	OK
15 minute summer	R13	11	35.467	0.107	92.9	0.0000	0.0000	OK
15 minute summer	R14	11	35.085	0.065	92.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	R6	41.005	R7	45.1	1.300	0.175	1.1209	
15 minute summer	R7	41.006	R8	59.3	1.532	0.257	1.8959	
15 minute summer	R8	41.007	R9	62.5	1.417	0.250	0.4524	
15 minute summer	R9	41.008	R10	70.6	1.234	0.371	0.8245	
15 minute summer	R10	41.009	R11	72.4	1.298	0.540	0.3690	
15 minute summer	R11	41.010	R12	78.9	1.275	0.340	1.0107	
15 minute summer	R12	41.011	R13	92.9	1.427	0.691	0.2565	
15 minute summer	R13	41.012	R14	92.8	2.152	0.391	0.6189	
15 minute summer	R14	Weir	HW2	92.7				41.8

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	HW2	32	33.268	0.702	3076.2	1653.0360	0.0000	SURCHARGED

15 minute summer	S98	10	49.905	0.115	22.6	0.1303	0.0000	OK
15 minute summer	S99	10	49.537	0.142	22.3	0.1606	0.0000	OK
15 minute summer	S100	11	49.504	0.174	34.8	0.1970	0.0000	OK
15 minute summer	S101	11	49.361	0.201	60.6	0.2279	0.0000	OK
15 minute summer	S102	11	49.275	0.175	74.2	0.1978	0.0000	OK
15 minute summer	S103	11	48.897	0.272	115.8	0.3894	0.0000	OK
15 minute summer	S104	11	48.718	0.293	169.3	0.4186	0.0000	OK
15 minute summer	S105	11	48.532	0.307	176.1	0.4389	0.0000	OK
15 minute summer	S106	11	48.372	0.247	198.8	0.3528	0.0000	OK
15 minute summer	S107	11	48.073	0.248	252.7	0.3551	0.0000	OK
15 minute summer	S108	11	47.137	0.212	256.7	0.3040	0.0000	OK
15 minute summer	S109	11	46.590	0.715	383.0	1.0232	0.0000	SURCHARGED
15 minute summer	S110	12	46.079	0.243	375.3	0.3478	0.0000	OK
15 minute summer	S111	12	44.913	0.513	425.5	0.9056	0.0000	OK
15 minute summer	S112	12	44.766	0.532	430.5	0.9396	0.0000	OK
15 minute summer	S113	12	44.636	0.464	439.1	0.8196	0.0000	OK
15 minute summer	S114	12	44.491	0.375	447.1	0.6631	0.0000	OK
15 minute summer	S115	12	44.251	0.351	466.8	0.6198	0.0000	OK
15 minute summer	S116	12	43.960	0.360	473.3	0.6360	0.0000	OK
15 minute summer	S117	12	43.705	0.405	489.7	0.7157	0.0000	OK
15 minute summer	S118	12	43.477	0.377	497.4	0.6664	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	HW2	Dummy Pipe	Dummy 1	83.3	4.735	4.716	0.0174	235.1
30 minute winter	HW2	Infiltration		132.8				
30 minute winter	HW2	Infiltration		314.3				
15 minute summer	S98	1.000	S99	22.3	1.617	0.834	0.1953	
15 minute summer	S99	1.001	S100	22.1	0.742	0.551	0.3223	
15 minute summer	S100	1.002	S101	34.5	1.107	0.859	0.4922	
15 minute summer	S101	1.003	S102	60.7	1.306	0.688	0.4399	
15 minute summer	S102	1.004	Junction 1	74.5	1.616	0.514	0.3906	
15 minute summer	S103	1.006	Junction 2	116.1	1.344	0.647	0.5782	
15 minute summer	S104	1.008	S105	170.0	1.801	0.707	1.3101	
15 minute summer	S105	1.009	S106	176.3	2.023	0.783	0.6846	
15 minute summer	S106	1.010	S107	198.9	2.596	0.517	0.6287	
15 minute summer	S107	1.011	S108	253.3	3.660	0.641	1.6457	
15 minute summer	S108	1.012	S109	254.5	2.604	0.380	0.7683	
15 minute summer	S109	1.013	S110	375.3	2.698	2.604	2.3753	
15 minute summer	S110	1.014	S111	374.8	3.639	0.520	2.9205	
15 minute summer	S111	1.015	S112	422.2	1.629	0.793	7.1963	
15 minute summer	S112	1.016	S113	435.8	1.744	0.822	2.5977	
15 minute summer	S113	1.017	S114	442.1	2.101	0.828	1.9438	
15 minute summer	S114	1.018	S115	449.8	2.527	0.464	1.9481	
15 minute summer	S115	1.019	S116	468.9	2.702	0.400	1.8029	
15 minute summer	S116	1.020	S117	474.2	2.509	0.382	1.7552	
15 minute summer	S117	1.021	S118	489.7	2.518	0.489	1.8438	
15 minute summer	S118	1.022	S119	496.7	2.706	0.409	1.4851	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S119	12	43.217	0.367	500.0	0.6487	0.0000	OK
15 minute summer	S120	12	42.898	0.298	511.4	0.5265	0.0000	OK
15 minute summer	S121	12	42.317	0.317	513.4	0.5606	0.0000	OK
15 minute summer	S122	11	41.900	0.300	708.1	0.5309	0.0000	OK
15 minute summer	S123	12	40.386	0.486	717.2	0.8591	0.0000	OK
15 minute summer	S124	12	40.136	0.686	721.1	1.2119	0.0000	SURCHARGED
15 minute summer	S125	12	39.822	0.822	859.8	1.4532	0.0000	SURCHARGED
15 minute summer	S126	12	39.453	0.753	863.8	1.3307	0.0000	SURCHARGED
15 minute summer	S127	12	39.029	0.529	871.6	0.9348	0.0000	OK
15 minute summer	S128	12	38.529	0.529	878.1	0.9346	0.0000	OK
15 minute summer	S129	12	37.784	0.383	1130.5	0.6763	0.0000	OK
15 minute summer	S130	12	35.811	0.461	1270.0	0.8151	0.0000	OK
15 minute summer	S131	12	35.051	0.491	1281.9	0.8680	0.0000	OK
15 minute summer	S132	12	34.356	0.847	1902.2	3.8335	0.0000	SURCHARGED
15 minute summer	S133	12	33.865	0.648	2101.6	2.9310	0.0000	OK
15 minute summer	S134	12	33.286	0.644	2107.8	2.9140	0.0000	OK
15 minute summer	S135	10	49.784	0.099	21.9	0.1122	0.0000	OK
15 minute summer	S136	10	49.594	0.082	21.8	0.0927	0.0000	OK
15 minute summer	S137	10	48.986	0.071	33.7	0.0806	0.0000	OK
15 minute summer	S138	10	49.264	0.139	33.9	0.1570	0.0000	OK
15 minute summer	S137A	10	47.276	0.101	33.5	0.1144	0.0000	OK
15 minute summer	S139	10	49.868	0.093	26.8	0.1050	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S119	1.023	S120	499.2	3.115	0.419	1.3414	
15 minute summer	S120	1.024	S121	510.6	3.512	0.340	1.8421	
15 minute summer	S121	1.025	S122	512.7	3.590	0.299	0.9411	
15 minute summer	S122	1.026	S123	712.8	3.898	0.467	6.6732	
15 minute summer	S123	1.027	S124	715.0	3.156	0.530	3.0971	
15 minute summer	S124	1.028	S125	720.0	2.773	0.571	3.7908	
15 minute summer	S125	1.029	S126	859.4	3.051	0.664	2.4005	
15 minute summer	S126	1.030	S127	863.3	3.069	0.846	2.4900	
15 minute summer	S127	1.031	S128	870.9	3.311	0.731	4.4086	
15 minute summer	S128	1.032	S129	878.6	3.818	0.777	3.7927	
15 minute summer	S129	1.033	S130	1134.1	4.450	0.478	14.2540	
15 minute summer	S130	1.034	S131	1272.5	4.426	0.436	4.1979	
15 minute summer	S131	1.035	S132	1281.5	3.372	0.516	9.5946	
15 minute summer	S132	1.036	S133	1910.3	2.238	1.144	56.9411	
15 minute summer	S133	1.037	S134	2107.8	2.613	0.917	53.6489	
15 minute summer	S134	1.038	HW2	2115.2	4.720	1.144	10.0388	
15 minute summer	S135	2.000	S136	21.8	1.459	0.345	0.1758	
15 minute summer	S136	2.001	S101	21.7	1.351	0.268	0.2069	
15 minute summer	S137	7.001	S137A	33.5	3.327	0.181	0.0801	
15 minute summer	S138	7.000	S137	33.7	1.855	0.586	0.3131	
15 minute summer	S137A	7.002	S147A	33.3	2.045	0.357	0.2033	
15 minute summer	S139	3.000	S140	26.7	1.750	0.332	0.3564	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S140	10	49.311	0.091	26.7	0.1029	0.0000	OK
15 minute summer	S141	10	49.420	0.095	24.0	0.1080	0.0000	OK
15 minute summer	S142	10	49.035	0.080	23.9	0.0902	0.0000	OK
15 minute summer	S143	10	49.249	0.074	20.5	0.0836	0.0000	OK
15 minute summer	S144	10	48.780	0.105	20.4	0.1182	0.0000	OK
15 minute summer	S145	10	49.247	0.072	21.9	0.0811	0.0000	OK
15 minute summer	S146	10	48.556	0.081	21.8	0.0913	0.0000	OK
15 minute summer	S147	10	46.911	0.061	13.4	0.0869	0.0000	OK
15 minute summer	S147A	12	46.687	0.137	69.9	0.1960	0.0000	OK
15 minute summer	S148	11	46.716	0.516	131.5	0.5837	0.0000	SURCHARGED
15 minute summer	S149	10	43.548	0.073	33.2	0.0823	0.0000	OK
15 minute summer	S150	11	42.098	0.348	196.3	0.6145	0.0000	OK
15 minute summer	S151	10	42.611	0.136	40.2	0.1535	0.0000	OK
15 minute summer	S152	10	40.480	0.180	108.7	0.2034	0.0000	OK
15 minute summer	S153	12	39.960	0.385	143.0	0.5505	0.0000	SURCHARGED
15 minute summer	S154	12	39.881	0.606	162.6	0.8678	0.0000	SURCHARGED
15 minute summer	S155	12	39.851	0.595	159.9	0.8521	0.0000	SURCHARGED
15 minute summer	S156	10	38.331	0.106	34.4	0.1204	0.0000	OK
15 minute summer	S157	10	39.913	0.088	34.6	0.0998	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S140	3.001	Junction 1	26.4	1.653	0.304	0.1258	
15 minute summer	S141	4.000	S142	23.9	1.670	0.333	0.2794	
15 minute summer	S142	4.001	Junction 2	23.7	1.731	0.251	0.1263	
15 minute summer	S143	5.000	S144	20.4	1.434	0.235	0.2655	
15 minute summer	S144	5.001	S104	20.1	1.169	0.325	0.1557	
15 minute summer	S145	6.000	S146	21.8	1.843	0.213	0.2155	
15 minute summer	S146	6.001	S106	21.7	1.760	0.225	0.0840	
15 minute summer	S147	8.000	S147A	13.3	0.535	0.040	0.7429	
15 minute summer	S147A	7.003	S148	69.4	1.116	0.193	2.8270	
15 minute summer	S148	7.004	S109	124.5	0.814	0.524	9.5020	
15 minute summer	S149	10.000	S150	33.1	3.109	0.203	0.1476	
15 minute summer	S150	9.001	S122	191.4	1.302	0.626	11.6558	
15 minute summer	S151	9.000	S150	39.8	1.661	0.611	0.5359	
15 minute summer	S152	11.000	S153	108.4	2.521	0.591	1.2474	
15 minute summer	S153	11.001	S154	140.7	1.850	0.589	1.7448	
15 minute summer	S154	11.002	S155	157.8	1.436	0.968	1.1688	
15 minute summer	S155	11.003	S125	153.2	1.918	0.356	0.9497	
15 minute summer	S156	13.001	S159	34.0	2.005	0.360	0.1299	
15 minute summer	S157	13.000	S156	34.4	2.092	0.328	0.6520	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S158	10	38.576	0.176	161.6	0.3118	0.0000	OK
15 minute summer	S159	11	37.995	0.395	250.8	0.6987	0.0000	OK
15 minute summer	S160A	10	37.860	0.110	29.6	0.1239	0.0000	OK
15 minute summer	S160B	10	37.773	0.112	29.4	0.1269	0.0000	OK
15 minute summer	S160C	10	37.717	0.104	29.2	0.1175	0.0000	OK
15 minute summer	S160	10	37.654	0.104	74.9	0.1172	0.0000	OK
15 minute summer	S161	10	36.387	0.187	153.4	0.2119	0.0000	OK
15 minute summer	S162	10	36.658	0.058	7.1	0.0657	0.0000	OK
15 minute summer	S163	10	40.416	0.141	22.6	0.1589	0.0000	OK
15 minute summer	S164	10	40.368	0.143	25.9	0.1618	0.0000	OK
15 minute summer	S165	10	40.271	0.182	48.2	0.2055	0.0000	OK
15 minute summer	S166	10	40.153	0.135	47.9	0.1521	0.0000	OK
15 minute summer	S167	10	40.038	0.138	57.4	0.1559	0.0000	OK
15 minute summer	S168	10	39.800	0.150	116.4	0.1693	0.0000	OK
15 minute summer	S169	11	38.012	0.212	136.2	0.2397	0.0000	OK
15 minute summer	S170	11	37.716	0.266	144.9	0.3004	0.0000	OK
15 minute summer	S171	11	37.470	0.545	257.9	0.7794	0.0000	SURCHARGED
15 minute summer	S172	11	37.200	0.425	272.7	0.6085	0.0000	SURCHARGED
15 minute summer	S173	11	36.837	0.212	325.2	0.3037	0.0000	OK
15 minute summer	S174	12	34.965	0.514	433.4	0.7359	0.0000	OK
15 minute summer	S175	12	34.749	0.368	433.3	0.5272	0.0000	OK
15 minute summer	S176	12	34.725	0.997	444.6	1.7616	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S158	12.000	S159	160.3	1.231	0.196	7.5675	
15 minute summer	S159	12.001	S129	247.6	1.406	0.812	4.3380	
15 minute summer	S160A	14.000_1	S160B	29.4	0.972	0.112	0.4042	
15 minute summer	S160B	14.001_1	S160C	29.2	1.000	0.111	0.2114	
15 minute summer	S160C	14.002	S160	29.0	1.062	0.089	0.1719	
15 minute summer	S160	14.000	S161	74.5	2.810	0.107	0.6958	
15 minute summer	S161	14.001	S130	153.1	1.737	0.220	7.4759	
15 minute summer	S162	15.000	S161	7.0	0.751	0.077	0.1391	
15 minute summer	S163	16.000	S164	22.4	0.851	0.560	0.2205	
15 minute summer	S164	16.001	S165	25.6	1.021	0.640	0.2574	
15 minute summer	S165	16.002	S166	47.9	1.271	0.683	0.6664	
15 minute summer	S166	16.003	S167	47.5	1.538	0.286	0.1644	
15 minute summer	S167	16.004	S168	57.2	1.728	0.358	0.4057	
15 minute summer	S168	16.005	S169	115.7	2.627	0.506	1.9432	
15 minute summer	S169	16.006	S170	134.5	2.516	0.600	0.5169	
15 minute summer	S170	16.007	S171	144.6	2.352	0.629	0.7225	
15 minute summer	S171	16.008	S172	257.9	2.338	0.919	0.8447	
15 minute summer	S172	16.009	S173	272.7	2.866	0.936	0.6198	
15 minute summer	S173	16.010	S174	325.4	4.525	0.556	1.7303	
15 minute summer	S174	16.011	S175	429.3	2.203	1.408	7.7291	
15 minute summer	S175	16.012	S176	407.4	2.981	0.208	1.4524	
15 minute summer	S176	16.013	S177	438.9	1.014	0.800	2.6535	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S177	12	34.692	0.976	475.2	1.7249	0.0000	SURCHARGED
15 minute summer	S178	12	34.611	0.972	472.2	1.7167	0.0000	SURCHARGED
15 minute summer	S179	12	34.561	0.949	599.3	1.6773	0.0000	SURCHARGED
15 minute summer	S180	12	34.442	0.898	604.4	1.5876	0.0000	SURCHARGED
15 minute summer	S181	10	39.938	0.063	18.3	0.0712	0.0000	OK
15 minute summer	S182	10	39.049	0.099	45.7	0.1116	0.0000	OK
15 minute summer	S183	10	38.052	0.152	78.6	0.1718	0.0000	OK
15 minute summer	S184	10	37.594	0.214	77.9	0.2418	0.0000	OK
15 minute summer	S185	10	37.446	0.146	126.6	0.1654	0.0000	OK
15 minute summer	S186	9	35.082	0.132	125.8	0.1494	0.0000	OK
15 minute summer	S187	9	38.064	0.089	19.1	0.1012	0.0000	OK
15 minute summer	S188	11	37.933	0.208	39.8	0.2354	0.0000	OK
15 minute summer	S189	11	37.828	0.199	38.8	0.2254	0.0000	OK
15 minute summer	S190	11	37.763	0.263	104.7	0.2969	0.0000	OK
15 minute summer	S191	11	37.607	0.232	108.7	0.2624	0.0000	OK
15 minute summer	S192	11	37.942	0.167	16.9	0.1890	0.0000	OK
15 minute summer	S193	10	38.139	0.164	46.6	0.1858	0.0000	OK
15 minute summer	S194	10	34.954	0.104	30.3	0.1175	0.0000	OK
15 minute summer	S195	12	34.974	0.248	47.7	0.2806	0.0000	OK
15 minute summer	S196	12	34.970	0.323	51.7	0.3654	0.0000	OK
15 minute summer	S197	12	34.777	0.527	33.2	0.5966	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S177	16.014	S178	466.3	1.060	0.847	16.8804	
15 minute summer	S178	16.015	S179	475.7	1.081	0.873	6.0429	
15 minute summer	S179	16.016	S180	599.4	1.362	1.090	14.9575	
15 minute summer	S180	16.017	S132	605.8	1.377	1.106	7.7598	
15 minute summer	S181	22.000	S182	18.2	2.062	0.159	0.1564	
15 minute summer	S182	22.001	S183	45.4	1.632	0.237	0.9946	
15 minute summer	S183	22.002	S184	77.9	1.733	0.480	1.0972	
15 minute summer	S184	22.003	S185	77.3	1.768	0.787	0.4483	
15 minute summer	S185	22.004	S186	125.8	4.018	0.427	1.0677	
15 minute summer	S186	22.005	S179	126.5	4.245	0.319	0.3457	
15 minute summer	S187	17.000	S188	19.2	1.007	0.330	0.3487	
15 minute summer	S188	17.001	S189	38.8	1.054	0.969	0.6088	
15 minute summer	S189	17.002	S190	38.8	1.172	0.835	0.2451	
15 minute summer	S190	17.003	S191	104.1	1.861	0.874	0.6747	
15 minute summer	S191	17.004	S171	108.7	1.983	0.520	0.6889	
15 minute summer	S192	18.000	S188	16.3	0.525	0.406	0.2918	
15 minute summer	S193	19.000	S190	46.1	1.474	0.830	1.1437	
15 minute summer	S194	20.000	S195	30.1	0.760	0.121	1.2152	
15 minute summer	S195	20.001	S196	51.7	0.810	0.207	1.3917	
15 minute summer	S196	20.002	S174	62.8	0.705	0.286	1.2818	
15 minute summer	S197	21.000	S198	58.8	0.897	0.223	4.6616	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S198	12	34.736	0.682	58.8	0.7709	0.0000	SURCHARGED
15 minute summer	Junction 1	11	49.155	0.199	100.5	0.0000	0.0000	OK
15 minute summer	Junction 2	11	48.848	0.277	139.3	0.0000	0.0000	OK
15 minute summer	S1	10	50.903	0.128	25.4	0.1444	0.0000	OK
15 minute summer	S2	11	50.820	0.225	30.7	0.2549	0.0000	SURCHARGED
15 minute summer	S3	11	50.782	0.230	44.3	0.2605	0.0000	SURCHARGED
15 minute summer	S4	11	50.642	0.202	47.1	0.2280	0.0000	OK
15 minute summer	S5	11	50.575	0.194	47.2	0.2200	0.0000	OK
15 minute summer	S6	11	50.527	0.165	89.0	0.1861	0.0000	OK
15 minute summer	S7	11	49.677	0.177	109.4	0.1999	0.0000	OK
15 minute summer	S8	11	49.281	0.181	122.5	0.2049	0.0000	OK
15 minute summer	S9	11	48.899	0.199	129.4	0.2250	0.0000	OK
15 minute summer	S10	11	48.513	0.213	153.8	0.2408	0.0000	OK
15 minute summer	S11	11	47.922	0.222	178.3	0.2512	0.0000	OK
15 minute summer	S12	11	47.255	0.255	178.7	0.2883	0.0000	OK
15 minute summer	S13	11	46.728	0.278	428.4	0.3985	0.0000	OK
15 minute summer	S14	11	45.690	0.340	435.8	0.4859	0.0000	OK
15 minute summer	S15	11	45.226	0.476	439.7	0.6813	0.0000	SURCHARGED
15 minute summer	S16	11	44.873	0.423	439.4	0.6053	0.0000	OK
15 minute summer	S17	11	44.547	0.425	509.7	0.6081	0.0000	OK
15 minute summer	S18	11	44.077	0.327	520.5	0.4674	0.0000	OK
15 minute summer	S19	11	42.206	0.303	784.5	0.5354	0.0000	OK
15 minute summer	S20	11	40.985	0.535	786.1	0.9461	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S198	21.001	S176	72.4	0.759	0.320	0.8334	
15 minute summer	Junction 1	1.005	S103	101.0	2.136	0.702	0.6527	
15 minute summer	Junction 2	1.007	S104	140.1	1.560	0.784	1.6406	
15 minute summer	S1	23.000	S2	25.1	0.823	0.627	0.9402	
15 minute summer	S2	23.001	S3	30.2	0.759	0.753	0.2858	
15 minute summer	S3	23.002	S4	44.4	1.175	1.113	0.2287	
15 minute summer	S4	23.003	S5	47.2	0.961	0.667	0.7247	
15 minute summer	S5	23.004	S6	47.3	1.118	0.668	0.1933	
15 minute summer	S6	23.005	S7	89.2	2.157	0.557	1.7270	
15 minute summer	S7	23.006	S8	109.7	2.505	0.512	0.4739	
15 minute summer	S8	23.007	S9	122.7	2.608	0.500	0.3890	
15 minute summer	S9	23.008	S10	129.6	2.515	0.597	0.5442	
15 minute summer	S10	23.009	S11	154.1	2.819	0.702	0.8486	
15 minute summer	S11	23.010	S12	178.7	2.976	0.737	0.8870	
15 minute summer	S12	23.011	S13	179.1	3.197	0.742	0.4734	
15 minute summer	S13	23.012	S14	429.7	3.744	0.589	2.5179	
15 minute summer	S14	23.013	S15	432.3	3.059	0.595	1.7172	
15 minute summer	S15	23.014	S16	436.0	2.814	0.716	1.3323	
15 minute summer	S16	23.015	S17	437.5	2.863	0.670	1.2530	
15 minute summer	S17	23.016	S18	508.4	3.608	0.694	1.0151	
15 minute summer	S18	23.017	S19	519.4	4.589	0.728	3.6265	
15 minute summer	S19	23.018	S20	784.1	3.116	0.328	9.8400	
15 minute summer	S20	23.019	S21	781.3	2.241	0.361	2.2869	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S21	11	40.822	0.572	784.0	1.0113	0.0000	OK
15 minute summer	S22	12	40.664	0.514	787.5	0.9077	0.0000	OK
15 minute summer	S23	12	40.462	0.612	796.0	1.0811	0.0000	OK
15 minute summer	S24	12	40.300	0.600	874.6	1.0601	0.0000	OK
15 minute summer	S25	12	40.097	0.697	902.3	1.7737	0.0000	OK
15 minute summer	S26	12	39.814	0.514	1314.2	1.3071	0.0000	OK
15 minute summer	S27	12	39.124	2.074	1407.6	6.6797	0.0000	SURCHARGED
15 minute summer	S28	12	38.763	1.729	1474.7	4.3990	0.0000	SURCHARGED
15 minute summer	S29	12	37.850	0.906	1474.6	2.3059	0.0000	SURCHARGED
15 minute summer	S30	12	37.403	0.471	1483.0	1.1996	0.0000	OK
15 minute summer	S31	12	35.890	0.620	1797.7	1.5782	0.0000	OK
15 minute summer	S32	12	34.643	0.583	1811.9	1.4846	0.0000	OK
15 minute summer	S33	13	33.317	0.567	1818.8	1.4430	0.0000	OK
15 minute summer	S34	10	51.085	0.110	30.3	0.1240	0.0000	OK
15 minute summer	S35	10	50.914	0.139	33.0	0.1570	0.0000	OK
15 minute summer	S36	10	50.783	0.183	87.2	0.2066	0.0000	OK
15 minute summer	S37	10	50.550	0.150	112.9	0.1701	0.0000	OK
15 minute summer	S38	10	49.494	0.194	132.2	0.2191	0.0000	OK
15 minute summer	S39	10	49.058	0.158	161.1	0.1784	0.0000	OK
15 minute summer	S40	11	47.180	0.479	222.3	0.6856	0.0000	SURCHARGED
15 minute summer	S36D	10	52.042	0.092	14.8	0.1035	0.0000	OK
15 minute summer	S36C	10	51.737	0.092	24.5	0.1036	0.0000	OK
15 minute summer	S36B	10	51.352	0.132	47.0	0.1496	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S21	23.020	S22	782.2	2.294	0.533	2.4179	
15 minute summer	S22	23.021	S23	789.4	2.240	0.443	5.1020	
15 minute summer	S23	23.022	S24	798.2	2.124	0.596	4.8816	
15 minute summer	S24	23.023	S25	874.7	2.219	0.646	10.0524	
15 minute summer	S25	23.024	S26	904.1	2.773	1.229	10.4986	
15 minute summer	S26	23.025	S27	1314.7	3.170	0.367	10.2568	
15 minute summer	S27	23.026	S28	1406.7	3.197	2.551	3.4990	
15 minute summer	S28	23.027	S29	1474.6	3.351	2.688	19.8877	
15 minute summer	S29	23.028	S30	1474.7	3.647	2.640	2.1252	
15 minute summer	S30	23.029	S31	1483.2	5.359	0.569	9.9398	
15 minute summer	S31	23.030	S32	1811.9	4.023	0.722	34.4346	
15 minute summer	S32	23.031	S33	1818.8	4.268	0.648	28.2398	
15 minute summer	S33	23.032	HW2	1811.0	7.613	0.747	4.8611	
15 minute summer	S34	24.000	S35	30.2	1.343	0.397	0.2109	
15 minute summer	S35	24.001	S36	32.7	1.373	0.578	0.2015	
15 minute summer	S36	24.002	S37	86.8	2.176	0.518	0.3544	
15 minute summer	S37	24.003	S38	112.4	2.698	0.481	1.0450	
15 minute summer	S38	24.004	S39	131.6	3.077	0.530	0.3456	
15 minute summer	S39	24.005	S40	160.5	2.991	0.553	1.6955	
15 minute summer	S40	24.006	S13	224.4	2.037	1.091	1.7879	
15 minute summer	S36D	24.000_1	S36C	14.7	1.361	0.614	0.1380	
15 minute summer	S36C	24.001_1	S36B	24.4	1.680	0.310	0.2242	
15 minute summer	S36B	24.002_1	S36A	46.6	1.554	0.376	1.0160	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S36A	10	50.933	0.133	52.2	0.1501	0.0000	OK
15 minute summer	S41	10	47.688	0.063	21.2	0.0708	0.0000	OK
15 minute summer	S42	11	47.256	0.356	51.4	0.4024	0.0000	SURCHARGED
15 minute summer	S45	10	49.653	0.152	59.3	0.1715	0.0000	OK
15 minute summer	S46	10	48.728	0.178	170.0	0.2009	0.0000	OK
15 minute summer	S47	10	44.242	0.242	189.5	0.2736	0.0000	OK
15 minute summer	S48	10	43.619	0.194	194.3	0.2779	0.0000	OK
15 minute summer	S50	11	42.844	0.306	208.9	0.4381	0.0000	OK
15 minute summer	S51	11	42.728	0.378	214.2	0.5403	0.0000	OK
15 minute summer	S52	11	42.646	0.471	227.1	0.8323	0.0000	OK
15 minute summer	S53	11	42.575	0.427	254.3	0.7552	0.0000	OK
15 minute summer	S54	10	44.120	0.095	27.5	0.1069	0.0000	OK
15 minute summer	S55	10	46.237	0.162	35.3	0.1835	0.0000	OK
15 minute summer	S56	10	46.094	0.119	64.7	0.1345	0.0000	OK
15 minute summer	S57	10	44.946	0.171	70.0	0.1935	0.0000	OK
15 minute summer	S58	10	44.724	0.349	69.3	0.3952	0.0000	SURCHARGED
15 minute summer	S59	10	44.523	0.223	61.4	0.2520	0.0000	OK
15 minute summer	S60	11	44.331	0.236	63.2	0.2667	0.0000	OK
15 minute summer	S61	11	43.443	0.310	137.5	0.4441	0.0000	OK
15 minute summer	S62	11	43.334	0.242	145.7	0.3465	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S36A	24.003_1	S36	51.7	1.387	0.302	0.3162	
15 minute summer	S41	25.000	S42	21.1	1.813	0.170	0.2792	
15 minute summer	S42	25.001	S40	49.3	0.876	0.696	2.1314	
15 minute summer	S45	27.002	S46	58.5	2.123	0.742	1.0552	
15 minute summer	S46	27.003	S47	167.6	3.952	0.630	3.3437	
15 minute summer	S47	27.004	S48	188.7	2.850	0.626	1.6877	
15 minute summer	S48	28.003	S50	193.8	3.117	0.456	1.1645	
15 minute summer	S50	27.007	S51	209.5	1.632	0.492	1.3983	
15 minute summer	S51	27.008	S52	215.0	1.483	0.595	1.1597	
15 minute summer	S52	27.009	S53	227.8	1.158	1.059	2.6542	
15 minute summer	S53	27.010	S19	255.0	1.504	1.173	1.6538	
15 minute summer	S54	28.000	S53	27.2	2.388	0.679	0.3399	
15 minute summer	S55	26.000	S56	35.1	1.344	0.822	0.3837	
15 minute summer	S56	26.001	S57	64.4	2.523	0.554	0.6515	
15 minute summer	S57	26.002	S58	69.3	1.798	0.551	0.2495	
15 minute summer	S58	26.003	S17	68.9	1.733	1.717	0.1827	
15 minute summer	S59	31.000	S60	60.4	1.052	0.853	2.8730	
15 minute summer	S60	31.001	S61	63.1	1.163	0.890	0.3163	
15 minute summer	S61	30.005	S62	137.6	1.581	1.073	0.8550	
15 minute summer	S62	30.006	S63	145.8	2.338	0.624	1.1106	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S63	11	43.023	0.173	223.6	0.2480	0.0000	OK
15 minute summer	S64	11	41.055	0.432	267.7	0.6176	0.0000	OK
15 minute summer	S65	11	40.907	0.318	302.9	0.4545	0.0000	OK
15 minute summer	S66	11	40.674	0.943	371.1	1.3500	0.0000	SURCHARGED
15 minute summer	S67	11	40.379	0.687	392.5	0.9828	0.0000	SURCHARGED
15 minute summer	S68	11	43.845	0.220	32.5	0.2492	0.0000	OK
15 minute summer	S69	11	43.774	0.244	37.6	0.2762	0.0000	SURCHARGED
15 minute summer	S70	11	43.702	0.230	41.6	0.2606	0.0000	SURCHARGED
15 minute summer	S71	11	43.615	0.275	68.9	0.3108	0.0000	OK
15 minute summer	S72	11	43.503	0.273	69.7	0.3093	0.0000	OK
15 minute summer	S73	11	43.681	0.131	21.2	0.1476	0.0000	OK
15 minute summer	S74	10	41.487	0.062	20.5	0.0702	0.0000	OK
15 minute summer	S75	11	41.058	0.313	50.0	0.3541	0.0000	OK
15 minute summer	S76	11	41.058	0.391	48.0	0.4424	0.0000	OK
15 minute summer	S77	11	40.697	0.797	60.0	1.1411	0.0000	SURCHARGED
15 minute summer	S78	11	40.682	0.916	64.5	1.3109	0.0000	SURCHARGED
15 minute summer	S79	10	42.692	0.117	43.8	0.1325	0.0000	OK
15 minute summer	S80	10	41.940	0.125	72.4	0.1414	0.0000	OK
15 minute summer	S81	10	40.604	0.179	72.0	0.2024	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S63	30.007	S64	223.7	3.012	0.447	2.7458	
15 minute summer	S64	30.008	S65	269.7	2.180	1.297	1.1270	
15 minute summer	S65	30.009	S66	304.6	2.034	0.408	2.2504	
15 minute summer	S66	30.010	S67	371.0	2.342	1.989	1.8398	
15 minute summer	S67	30.011	S26	392.6	2.478	1.448	2.0343	
15 minute summer	S68	30.000	S69	31.2	0.874	0.781	0.6335	
15 minute summer	S69	30.001	S70	36.9	0.935	0.923	0.3876	
15 minute summer	S70	30.002	S71	41.5	1.099	1.035	0.3674	
15 minute summer	S71	30.003	S72	68.4	1.027	0.964	1.8085	
15 minute summer	S72	30.004	S61	69.7	1.135	0.976	0.3345	
15 minute summer	S73	32.000	S63	20.6	1.300	1.008	0.5840	
15 minute summer	S74	33.000	S75	20.4	1.306	0.061	0.9207	
15 minute summer	S75	33.001	S76	48.0	0.624	0.252	2.9348	
15 minute summer	S76	33.002	S64	52.8	0.428	0.214	1.1392	
15 minute summer	S77	34.000	S78	58.9	0.605	0.318	6.3796	
15 minute summer	S78	34.001	S66	61.6	0.389	0.334	1.6835	
15 minute summer	S79	29.000	S80	43.5	2.001	0.507	0.6105	
15 minute summer	S80	29.001	S81	72.0	2.524	0.601	0.7477	
15 minute summer	S81	29.002	S24	71.4	2.417	0.678	0.1445	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S82	10	40.373	0.123	52.2	0.1392	0.0000	OK
15 minute summer	S83	12	39.118	0.118	51.7	0.1330	0.0000	OK
15 minute summer	S84	12	39.128	1.426	112.3	2.5191	0.0000	SURCHARGED
15 minute summer	S89	10	40.383	0.098	48.0	0.1113	0.0000	OK
15 minute summer	S90	11	38.578	0.278	47.8	0.3148	0.0000	OK
15 minute summer	S91	11	38.560	0.279	73.1	0.3151	0.0000	OK
15 minute summer	S92	11	38.421	0.220	107.0	0.2490	0.0000	OK
15 minute summer	S93	11	38.180	0.180	107.3	0.2035	0.0000	OK
15 minute summer	S94	11	37.793	0.193	160.6	0.2184	0.0000	OK
15 minute summer	Junction 3	10	36.439	0.279	336.9	0.0000	0.0000	OK
15 minute summer	S95	10	38.792	0.067	7.1	0.0763	0.0000	OK
15 minute summer	S96	10	38.647	0.047	7.0	0.0532	0.0000	OK
15 minute summer	Junction 4	11	38.511	0.263	79.6	0.0000	0.0000	OK
15 minute summer	S97	10	36.655	0.208	178.5	0.3676	0.0000	OK
15 minute summer	Dummy 1	12	32.708	0.142	77.7	0.0000	0.0000	OK
15 minute summer	R1	10	41.412	0.012	4.2	0.0000	0.0000	OK
15 minute summer	R2	10	41.216	0.016	5.6	0.0000	0.0000	OK
15 minute summer	R3	10	41.130	0.030	16.9	0.0000	0.0000	OK
15 minute summer	R4	10	39.941	0.041	26.6	0.0000	0.0000	OK
15 minute summer	R5	10	39.457	0.057	41.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S82	35.000	S83	51.7	2.397	0.542	0.7586	
15 minute summer	S83	35.001	S84	51.6	3.319	0.142	0.3849	
15 minute summer	S84	35.002	S27	114.9	1.070	0.062	12.7917	
15 minute summer	S89	38.000	S90	47.8	2.226	0.400	0.9914	
15 minute summer	S90	38.001	S91	46.8	0.687	0.654	0.3098	
15 minute summer	S91	38.002	Junction 4	72.8	1.088	1.039	0.5494	
15 minute summer	S92	38.004	S93	107.3	2.151	0.702	0.5308	
15 minute summer	S93	38.005	S94	107.6	2.338	0.543	0.5832	
15 minute summer	S94	38.006	Junction 3	160.8	3.455	0.703	1.2621	
15 minute summer	Junction 3	38.007	S31	335.6	2.688	0.421	6.0832	
15 minute summer	S95	39.000	S96	7.0	1.139	0.362	0.0648	
15 minute summer	S96	39.001	Junction 4	7.0	1.249	0.213	0.0565	
15 minute summer	Junction 4	38.003	S92	80.1	1.328	1.139	0.7033	
15 minute summer	S97	40.000	Junction 3	177.9	1.662	0.223	2.3065	
15 minute summer	R1	41.000	R2	4.2	0.609	0.012	0.0290	
15 minute summer	R2	41.001	R3	5.6	0.482	0.021	0.0386	
15 minute summer	R3	41.002	R4	16.7	0.932	0.059	0.6346	
15 minute summer	R4	41.003	R5	26.3	1.069	0.097	0.3968	
15 minute summer	R5	41.004	R6	41.2	1.242	0.159	1.2872	

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	R6	11	38.376	0.076	64.5	0.0000	0.0000	OK
15 minute summer	R7	11	37.499	0.099	83.9	0.0000	0.0000	OK
15 minute summer	R8	11	36.397	0.097	88.7	0.0000	0.0000	OK
15 minute summer	R9	11	36.159	0.129	100.3	0.0000	0.0000	OK
15 minute summer	R10	11	35.974	0.164	103.2	0.0000	0.0000	OK
15 minute summer	R11	11	35.880	0.120	113.1	0.0000	0.0000	OK
15 minute summer	R12	11	35.588	0.198	132.7	0.0000	0.0000	OK
15 minute summer	R13	11	35.496	0.136	132.7	0.0000	0.0000	OK
15 minute summer	R14	11	35.103	0.083	132.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	R6	41.005	R7	63.8	1.461	0.248	1.4121	
15 minute summer	R7	41.006	R8	84.0	1.719	0.364	2.3964	
15 minute summer	R8	41.007	R9	88.9	1.575	0.356	0.5788	
15 minute summer	R9	41.008	R10	100.5	1.370	0.528	1.0560	
15 minute summer	R10	41.009	R11	103.7	1.459	0.774	0.4700	
15 minute summer	R11	41.010	R12	112.5	1.416	0.485	1.2986	
15 minute summer	R12	41.011	R13	132.7	1.591	0.987	0.3286	
15 minute summer	R13	41.012	R14	132.7	2.427	0.559	0.7844	
15 minute summer	R14	Weir	HW2	132.6				59.2

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	HW2	32	33.198	0.632	2792.8	1451.2100	0.0000	SURCHARGED

15 minute summer	S98	10	49.895	0.105	20.3	0.1193	0.0000	OK
15 minute summer	S99	10	49.525	0.130	20.1	0.1470	0.0000	OK
15 minute summer	S100	11	49.490	0.160	31.3	0.1811	0.0000	OK
15 minute summer	S101	10	49.348	0.188	54.6	0.2123	0.0000	OK
15 minute summer	S102	10	49.262	0.162	67.0	0.1834	0.0000	OK
15 minute summer	S103	11	48.874	0.249	104.1	0.3566	0.0000	OK
15 minute summer	S104	11	48.691	0.266	152.4	0.3811	0.0000	OK
15 minute summer	S105	11	48.507	0.282	158.6	0.4039	0.0000	OK
15 minute summer	S106	11	48.353	0.228	179.1	0.3259	0.0000	OK
15 minute summer	S107	11	48.058	0.233	227.7	0.3338	0.0000	OK
15 minute summer	S108	11	47.108	0.183	231.2	0.2615	0.0000	OK
15 minute summer	S109	11	46.480	0.605	339.9	0.8660	0.0000	SURCHARGED
15 minute summer	S110	12	46.064	0.228	336.5	0.3256	0.0000	OK
15 minute summer	S111	12	44.861	0.461	381.8	0.8152	0.0000	OK
15 minute summer	S112	12	44.720	0.486	388.9	0.8581	0.0000	OK
15 minute summer	S113	12	44.601	0.429	394.1	0.7578	0.0000	OK
15 minute summer	S114	12	44.461	0.345	399.6	0.6101	0.0000	OK
15 minute summer	S115	12	44.221	0.321	415.7	0.5675	0.0000	OK
15 minute summer	S116	12	43.927	0.327	420.3	0.5785	0.0000	OK
15 minute summer	S117	12	43.670	0.370	434.8	0.6539	0.0000	OK
15 minute summer	S118	12	43.446	0.346	442.3	0.6106	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	HW2	Dummy Pipe	Dummy 1	78.0	4.431	4.414	0.0174	194.4
30 minute winter	HW2	Infiltration		132.8				
30 minute winter	HW2	Infiltration		314.3				
15 minute summer	S98	1.000	S99	20.1	1.592	0.750	0.1786	
15 minute summer	S99	1.001	S100	19.9	0.737	0.497	0.2930	
15 minute summer	S100	1.002	S101	31.1	1.078	0.773	0.4551	
15 minute summer	S101	1.003	S102	54.5	1.283	0.617	0.4034	
15 minute summer	S102	1.004	Junction 1	66.9	1.589	0.461	0.3568	
15 minute summer	S103	1.006	Junction 2	104.4	1.330	0.581	0.5252	
15 minute summer	S104	1.008	S105	153.1	1.772	0.637	1.1987	
15 minute summer	S105	1.009	S106	158.9	1.991	0.705	0.6282	
15 minute summer	S106	1.010	S107	179.2	2.536	0.465	0.5791	
15 minute summer	S107	1.011	S108	228.2	3.655	0.577	1.4547	
15 minute summer	S108	1.012	S109	230.6	2.504	0.345	0.7196	
15 minute summer	S109	1.013	S110	336.5	2.468	2.335	2.3082	
15 minute summer	S110	1.014	S111	337.5	3.658	0.468	2.5720	
15 minute summer	S111	1.015	S112	381.4	1.599	0.716	6.5943	
15 minute summer	S112	1.016	S113	391.1	1.698	0.738	2.3994	
15 minute summer	S113	1.017	S114	395.1	2.056	0.740	1.7776	
15 minute summer	S114	1.018	S115	400.3	2.498	0.413	1.7559	
15 minute summer	S115	1.019	S116	416.3	2.683	0.355	1.6117	
15 minute summer	S116	1.020	S117	420.9	2.487	0.339	1.5733	
15 minute summer	S117	1.021	S118	435.3	2.484	0.435	1.6614	
15 minute summer	S118	1.022	S119	442.6	2.666	0.365	1.3433	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S119	12	43.189	0.339	445.6	0.5990	0.0000	OK
15 minute summer	S120	12	42.876	0.276	456.8	0.4874	0.0000	OK
15 minute summer	S121	12	42.293	0.293	459.5	0.5184	0.0000	OK
15 minute summer	S122	11	41.886	0.286	654.2	0.5060	0.0000	OK
15 minute summer	S123	11	40.299	0.399	654.1	0.7053	0.0000	OK
15 minute summer	S124	12	39.898	0.448	653.2	0.7909	0.0000	OK
15 minute summer	S125	12	39.625	0.625	786.7	1.1048	0.0000	SURCHARGED
15 minute summer	S126	12	39.320	0.620	794.1	1.0956	0.0000	SURCHARGED
15 minute summer	S127	12	38.982	0.482	803.1	0.8524	0.0000	OK
15 minute summer	S128	12	38.490	0.490	811.9	0.8665	0.0000	OK
15 minute summer	S129	11	37.765	0.364	1042.0	0.6436	0.0000	OK
15 minute summer	S130	12	35.783	0.433	1179.7	0.7645	0.0000	OK
15 minute summer	S131	12	35.001	0.441	1180.6	0.7792	0.0000	OK
15 minute summer	S132	12	34.237	0.728	1755.7	3.2931	0.0000	OK
15 minute summer	S133	12	33.803	0.586	1928.5	2.6495	0.0000	OK
15 minute summer	S134	13	33.239	0.597	1909.0	2.7013	0.0000	OK
15 minute summer	S135	10	49.778	0.093	19.7	0.1056	0.0000	OK
15 minute summer	S136	10	49.589	0.077	19.6	0.0872	0.0000	OK
15 minute summer	S137	10	48.982	0.067	30.3	0.0759	0.0000	OK
15 minute summer	S138	10	49.255	0.130	30.5	0.1470	0.0000	OK
15 minute summer	S137A	10	47.270	0.095	30.2	0.1074	0.0000	OK
15 minute summer	S139	10	49.863	0.088	24.2	0.0992	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S119	1.023	S120	445.8	3.069	0.374	1.2167	
15 minute summer	S120	1.024	S121	457.0	3.471	0.304	1.6680	
15 minute summer	S121	1.025	S122	459.4	3.506	0.268	0.8705	
15 minute summer	S122	1.026	S123	649.2	3.903	0.425	5.7602	
15 minute summer	S123	1.027	S124	646.5	3.175	0.479	2.4909	
15 minute summer	S124	1.028	S125	652.2	2.761	0.517	3.4128	
15 minute summer	S125	1.029	S126	790.1	2.805	0.610	2.4005	
15 minute summer	S126	1.030	S127	795.6	2.973	0.780	2.3975	
15 minute summer	S127	1.031	S128	805.4	3.292	0.676	4.1011	
15 minute summer	S128	1.032	S129	812.9	3.779	0.718	3.5601	
15 minute summer	S129	1.033	S130	1043.4	4.402	0.440	13.2660	
15 minute summer	S130	1.034	S131	1172.1	4.421	0.401	3.7891	
15 minute summer	S131	1.035	S132	1182.1	3.384	0.476	9.0164	
15 minute summer	S132	1.036	S133	1756.3	2.240	1.052	53.9796	
15 minute summer	S133	1.037	S134	1909.0	2.575	0.831	49.3025	
15 minute summer	S134	1.038	HW2	1901.9	4.692	1.029	8.6953	
15 minute summer	S135	2.000	S136	19.6	1.424	0.310	0.1620	
15 minute summer	S136	2.001	S101	19.5	1.384	0.241	0.1833	
15 minute summer	S137	7.001	S137A	30.2	3.241	0.163	0.0740	
15 minute summer	S138	7.000	S137	30.3	1.814	0.527	0.2890	
15 minute summer	S137A	7.002	S147A	30.0	1.994	0.321	0.1876	
15 minute summer	S139	3.000	S140	24.1	1.714	0.299	0.3283	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S140	10	49.305	0.085	24.1	0.0963	0.0000	OK
15 minute summer	S141	10	49.415	0.090	21.6	0.1017	0.0000	OK
15 minute summer	S142	10	49.030	0.075	21.5	0.0849	0.0000	OK
15 minute summer	S143	10	49.245	0.070	18.4	0.0790	0.0000	OK
15 minute summer	S144	11	48.770	0.095	18.3	0.1075	0.0000	OK
15 minute summer	S145	10	49.243	0.068	19.7	0.0764	0.0000	OK
15 minute summer	S146	10	48.552	0.077	19.6	0.0872	0.0000	OK
15 minute summer	S147	10	46.908	0.058	12.1	0.0827	0.0000	OK
15 minute summer	S147A	10	46.676	0.126	63.0	0.1802	0.0000	OK
15 minute summer	S148	12	46.545	0.345	119.3	0.3898	0.0000	OK
15 minute summer	S149	10	43.544	0.069	29.9	0.0777	0.0000	OK
15 minute summer	S150	11	42.076	0.326	176.8	0.5760	0.0000	OK
15 minute summer	S151	10	42.602	0.127	36.2	0.1433	0.0000	OK
15 minute summer	S152	10	40.469	0.169	97.9	0.1912	0.0000	OK
15 minute summer	S153	11	39.805	0.230	128.4	0.3294	0.0000	OK
15 minute summer	S154	12	39.677	0.402	147.0	0.5758	0.0000	OK
15 minute summer	S155	12	39.647	0.391	147.2	0.5591	0.0000	OK
15 minute summer	S156	10	38.325	0.100	30.9	0.1127	0.0000	OK
15 minute summer	S157	10	39.908	0.083	31.1	0.0942	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S140	3.001	Junction 1	23.9	1.626	0.274	0.1112	
15 minute summer	S141	4.000	S142	21.5	1.629	0.299	0.2576	
15 minute summer	S142	4.001	Junction 2	21.3	1.686	0.226	0.1040	
15 minute summer	S143	5.000	S144	18.3	1.409	0.211	0.2386	
15 minute summer	S144	5.001	S104	18.0	1.198	0.290	0.1295	
15 minute summer	S145	6.000	S146	19.6	1.783	0.192	0.2004	
15 minute summer	S146	6.001	S106	19.6	1.715	0.203	0.0695	
15 minute summer	S147	8.000	S147A	12.0	0.516	0.036	0.6878	
15 minute summer	S147A	7.003	S148	63.4	1.094	0.176	2.3109	
15 minute summer	S148	7.004	S109	109.9	0.832	0.463	8.6574	
15 minute summer	S149	10.000	S150	29.8	3.026	0.182	0.1365	
15 minute summer	S150	9.001	S122	172.6	1.274	0.565	10.8523	
15 minute summer	S151	9.000	S150	35.8	1.624	0.550	0.4937	
15 minute summer	S152	11.000	S153	97.3	2.517	0.531	0.9288	
15 minute summer	S153	11.001	S154	127.3	1.846	0.533	1.2759	
15 minute summer	S154	11.002	S155	145.3	1.404	0.891	1.0906	
15 minute summer	S155	11.003	S125	144.4	1.910	0.335	0.9129	
15 minute summer	S156	13.001	S159	30.6	1.957	0.324	0.1196	
15 minute summer	S157	13.000	S156	30.9	2.043	0.295	0.6004	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S158	10	38.567	0.167	145.6	0.2955	0.0000	OK
15 minute summer	S159	11	37.972	0.372	225.8	0.6566	0.0000	OK
15 minute summer	S160A	10	37.853	0.103	26.7	0.1170	0.0000	OK
15 minute summer	S160B	10	37.767	0.106	26.5	0.1198	0.0000	OK
15 minute summer	S160C	10	37.711	0.098	26.3	0.1108	0.0000	OK
15 minute summer	S160	10	37.648	0.098	67.5	0.1109	0.0000	OK
15 minute summer	S161	10	36.378	0.178	138.1	0.2012	0.0000	OK
15 minute summer	S162	10	36.655	0.055	6.4	0.0624	0.0000	OK
15 minute summer	S163	10	40.405	0.130	20.3	0.1474	0.0000	OK
15 minute summer	S164	10	40.358	0.133	23.4	0.1507	0.0000	OK
15 minute summer	S165	10	40.259	0.170	43.3	0.1928	0.0000	OK
15 minute summer	S166	10	40.144	0.126	43.1	0.1420	0.0000	OK
15 minute summer	S167	10	40.029	0.129	51.7	0.1459	0.0000	OK
15 minute summer	S168	10	39.791	0.141	104.8	0.1593	0.0000	OK
15 minute summer	S169	10	37.992	0.192	122.5	0.2169	0.0000	OK
15 minute summer	S170	11	37.658	0.208	130.7	0.2351	0.0000	OK
15 minute summer	S171	11	37.357	0.432	234.6	0.6179	0.0000	SURCHARGED
15 minute summer	S172	11	37.127	0.352	248.5	0.5030	0.0000	OK
15 minute summer	S173	11	36.826	0.201	296.1	0.2882	0.0000	OK
15 minute summer	S174	11	34.913	0.462	392.1	0.6607	0.0000	OK
15 minute summer	S175	11	34.655	0.274	396.1	0.3922	0.0000	OK
15 minute summer	S176	12	34.568	0.840	416.1	1.4839	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S158	12.000	S159	144.4	1.200	0.177	7.0302	
15 minute summer	S159	12.001	S129	223.0	1.360	0.731	4.0421	
15 minute summer	S160A	14.000_1	S160B	26.5	0.951	0.101	0.3728	
15 minute summer	S160B	14.001_1	S160C	26.3	0.978	0.100	0.1947	
15 minute summer	S160C	14.002	S160	26.2	1.039	0.081	0.1584	
15 minute summer	S160	14.000	S161	67.0	2.731	0.097	0.6444	
15 minute summer	S161	14.001	S130	138.6	1.748	0.199	6.7691	
15 minute summer	S162	15.000	S161	6.3	0.730	0.070	0.1293	
15 minute summer	S163	16.000	S164	20.2	0.835	0.503	0.2021	
15 minute summer	S164	16.001	S165	23.0	0.998	0.576	0.2371	
15 minute summer	S165	16.002	S166	43.1	1.244	0.615	0.6136	
15 minute summer	S166	16.003	S167	42.8	1.512	0.257	0.1505	
15 minute summer	S167	16.004	S168	51.5	1.689	0.323	0.3736	
15 minute summer	S168	16.005	S169	104.1	2.598	0.456	1.7667	
15 minute summer	S169	16.006	S170	121.4	2.512	0.542	0.4314	
15 minute summer	S170	16.007	S171	131.0	2.349	0.570	0.6489	
15 minute summer	S171	16.008	S172	235.2	2.132	0.838	0.8335	
15 minute summer	S172	16.009	S173	248.9	2.857	0.854	0.5952	
15 minute summer	S173	16.010	S174	296.5	4.643	0.507	1.5350	
15 minute summer	S174	16.011	S175	392.5	2.255	1.288	6.3109	
15 minute summer	S175	16.012	S176	402.4	3.062	0.206	1.2671	
15 minute summer	S176	16.013	S177	413.2	1.007	0.753	2.6535	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S177	12	34.538	0.822	445.6	1.4529	0.0000	SURCHARGED
15 minute summer	S178	12	34.460	0.821	449.9	1.4515	0.0000	SURCHARGED
15 minute summer	S179	12	34.416	0.804	559.2	1.4212	0.0000	SURCHARGED
15 minute summer	S180	12	34.312	0.768	561.1	1.3566	0.0000	SURCHARGED
15 minute summer	S181	10	39.935	0.060	16.5	0.0674	0.0000	OK
15 minute summer	S182	10	39.043	0.093	41.2	0.1057	0.0000	OK
15 minute summer	S183	10	38.042	0.142	70.9	0.1604	0.0000	OK
15 minute summer	S184	10	37.579	0.199	70.2	0.2256	0.0000	OK
15 minute summer	S185	11	37.437	0.137	114.0	0.1552	0.0000	OK
15 minute summer	S186	10	35.073	0.123	113.1	0.1395	0.0000	OK
15 minute summer	S187	10	38.062	0.087	17.2	0.0981	0.0000	OK
15 minute summer	S188	11	37.908	0.183	35.8	0.2069	0.0000	OK
15 minute summer	S189	11	37.802	0.173	35.4	0.1953	0.0000	OK
15 minute summer	S190	11	37.730	0.230	94.8	0.2602	0.0000	OK
15 minute summer	S191	11	37.552	0.177	99.0	0.2005	0.0000	OK
15 minute summer	S192	11	37.916	0.141	15.3	0.1597	0.0000	OK
15 minute summer	S193	10	38.127	0.152	42.0	0.1716	0.0000	OK
15 minute summer	S194	10	34.949	0.099	27.3	0.1116	0.0000	OK
15 minute summer	S195	11	34.923	0.197	43.0	0.2223	0.0000	OK
15 minute summer	S196	11	34.918	0.271	40.9	0.3068	0.0000	OK
15 minute summer	S197	12	34.597	0.347	29.9	0.3924	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S177	16.014	S178	443.9	1.011	0.806	16.8804	
15 minute summer	S178	16.015	S179	448.0	1.018	0.822	6.0429	
15 minute summer	S179	16.016	S180	556.6	1.265	1.012	14.9575	
15 minute summer	S180	16.017	S132	560.2	1.274	1.023	7.7280	
15 minute summer	S181	22.000	S182	16.4	2.005	0.143	0.1450	
15 minute summer	S182	22.001	S183	41.0	1.600	0.214	0.9152	
15 minute summer	S183	22.002	S184	70.2	1.697	0.433	1.0114	
15 minute summer	S184	22.003	S185	69.6	1.716	0.709	0.4131	
15 minute summer	S185	22.004	S186	113.1	3.981	0.384	0.9888	
15 minute summer	S186	22.005	S179	114.2	4.151	0.288	0.3201	
15 minute summer	S187	17.000	S188	17.1	1.004	0.294	0.3030	
15 minute summer	S188	17.001	S189	35.4	1.051	0.884	0.5420	
15 minute summer	S189	17.002	S190	35.7	1.195	0.768	0.2089	
15 minute summer	S190	17.003	S191	94.8	1.880	0.796	0.5519	
15 minute summer	S191	17.004	S171	99.4	1.984	0.476	0.6080	
15 minute summer	S192	18.000	S188	14.9	0.530	0.371	0.2534	
15 minute summer	S193	19.000	S190	41.6	1.456	0.749	1.0070	
15 minute summer	S194	20.000	S195	27.1	0.762	0.109	0.9519	
15 minute summer	S195	20.001	S196	40.9	0.798	0.164	1.0952	
15 minute summer	S196	20.002	S174	44.6	0.686	0.203	1.0728	
15 minute summer	S197	21.000	S198	42.3	0.900	0.161	4.2601	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S198	12	34.572	0.518	42.3	0.5856	0.0000	SURCHARGED
15 minute summer	Junction 1	11	49.140	0.184	90.4	0.0000	0.0000	OK
15 minute summer	Junction 2	11	48.825	0.254	125.3	0.0000	0.0000	OK
15 minute summer	S1	10	50.895	0.120	22.9	0.1354	0.0000	OK
15 minute summer	S2	11	50.786	0.191	27.7	0.2164	0.0000	OK
15 minute summer	S3	11	50.759	0.207	40.0	0.2339	0.0000	OK
15 minute summer	S4	11	50.628	0.188	42.6	0.2122	0.0000	OK
15 minute summer	S5	11	50.562	0.182	42.7	0.2058	0.0000	OK
15 minute summer	S6	11	50.517	0.155	80.4	0.1748	0.0000	OK
15 minute summer	S7	11	49.665	0.165	98.9	0.1863	0.0000	OK
15 minute summer	S8	11	49.268	0.168	110.7	0.1902	0.0000	OK
15 minute summer	S9	11	48.884	0.184	117.0	0.2082	0.0000	OK
15 minute summer	S10	11	48.496	0.196	138.9	0.2222	0.0000	OK
15 minute summer	S11	11	47.903	0.203	161.0	0.2300	0.0000	OK
15 minute summer	S12	11	47.231	0.231	161.3	0.2612	0.0000	OK
15 minute summer	S13	11	46.709	0.259	385.0	0.3704	0.0000	OK
15 minute summer	S14	11	45.648	0.298	390.8	0.4260	0.0000	OK
15 minute summer	S15	11	45.134	0.384	397.8	0.5496	0.0000	OK
15 minute summer	S16	11	44.823	0.373	400.9	0.5338	0.0000	OK
15 minute summer	S17	11	44.505	0.383	466.1	0.5480	0.0000	OK
15 minute summer	S18	11	44.055	0.305	477.2	0.4360	0.0000	OK
15 minute summer	S19	11	42.189	0.286	716.1	0.5048	0.0000	OK
15 minute summer	S20	11	40.946	0.496	718.4	0.8758	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S198	21.001	S176	54.9	0.698	0.242	0.8334	
15 minute summer	Junction 1	1.005	S103	90.8	2.091	0.631	0.5995	
15 minute summer	Junction 2	1.007	S104	126.0	1.546	0.706	1.4900	
15 minute summer	S1	23.000	S2	22.6	0.813	0.565	0.8580	
15 minute summer	S2	23.001	S3	27.3	0.734	0.681	0.2667	
15 minute summer	S3	23.002	S4	40.2	1.136	1.007	0.2190	
15 minute summer	S4	23.003	S5	42.7	0.939	0.604	0.6688	
15 minute summer	S5	23.004	S6	42.8	1.086	0.605	0.1787	
15 minute summer	S6	23.005	S7	80.7	2.119	0.504	1.5908	
15 minute summer	S7	23.006	S8	99.2	2.472	0.462	0.4340	
15 minute summer	S8	23.007	S9	110.9	2.579	0.452	0.3555	
15 minute summer	S9	23.008	S10	117.1	2.486	0.539	0.4975	
15 minute summer	S10	23.009	S11	139.2	2.791	0.634	0.7734	
15 minute summer	S11	23.010	S12	161.3	2.954	0.665	0.8078	
15 minute summer	S12	23.011	S13	161.6	3.164	0.669	0.4339	
15 minute summer	S13	23.012	S14	385.3	3.744	0.528	2.2382	
15 minute summer	S14	23.013	S15	391.1	3.049	0.539	1.5293	
15 minute summer	S15	23.014	S16	397.9	2.803	0.654	1.2111	
15 minute summer	S16	23.015	S17	401.0	2.834	0.614	1.1500	
15 minute summer	S17	23.016	S18	466.3	3.588	0.636	0.9410	
15 minute summer	S18	23.017	S19	477.4	4.523	0.669	3.3767	
15 minute summer	S19	23.018	S20	716.6	3.106	0.300	9.0528	
15 minute summer	S20	23.019	S21	715.2	2.225	0.331	2.1089	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S21	11	40.782	0.532	717.6	0.9398	0.0000	OK
15 minute summer	S22	11	40.624	0.474	721.2	0.8382	0.0000	OK
15 minute summer	S23	11	40.406	0.556	726.2	0.9821	0.0000	OK
15 minute summer	S24	11	40.243	0.543	800.7	0.9589	0.0000	OK
15 minute summer	S25	12	40.005	0.605	826.0	1.5398	0.0000	OK
15 minute summer	S26	12	39.718	0.418	1201.7	1.0644	0.0000	OK
15 minute summer	S27	12	38.848	1.798	1303.0	5.7910	0.0000	SURCHARGED
15 minute summer	S28	12	38.540	1.506	1358.4	3.8339	0.0000	SURCHARGED
15 minute summer	S29	12	37.769	0.825	1355.7	2.0988	0.0000	SURCHARGED
15 minute summer	S30	12	37.377	0.445	1363.4	1.1335	0.0000	OK
15 minute summer	S31	12	35.851	0.581	1649.2	1.4776	0.0000	OK
15 minute summer	S32	12	34.609	0.549	1661.0	1.3976	0.0000	OK
15 minute summer	S33	12	33.285	0.535	1674.4	1.3607	0.0000	OK

15 minute summer	S34	10	51.077	0.102	27.3	0.1157	0.0000	OK
15 minute summer	S35	10	50.905	0.130	29.7	0.1465	0.0000	OK
15 minute summer	S36	10	50.770	0.170	78.5	0.1925	0.0000	OK
15 minute summer	S37	10	50.541	0.141	101.7	0.1595	0.0000	OK
15 minute summer	S38	10	49.480	0.180	119.1	0.2030	0.0000	OK
15 minute summer	S39	10	49.048	0.148	145.1	0.1677	0.0000	OK
15 minute summer	S40	11	47.059	0.358	201.0	0.5118	0.0000	OK

15 minute summer	S36D	10	52.035	0.085	13.3	0.0964	0.0000	OK
15 minute summer	S36C	10	51.731	0.086	22.1	0.0975	0.0000	OK
15 minute summer	S36B	10	51.345	0.125	42.2	0.1409	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S21	23.020	S22	716.3	2.284	0.488	2.2264	
15 minute summer	S22	23.021	S23	718.9	2.248	0.403	4.6493	
15 minute summer	S23	23.022	S24	723.9	2.117	0.541	4.4262	
15 minute summer	S24	23.023	S25	796.8	2.215	0.588	9.0022	
15 minute summer	S25	23.024	S26	828.5	2.757	1.126	8.8849	
15 minute summer	S26	23.025	S27	1210.0	3.101	0.338	9.3269	
15 minute summer	S27	23.026	S28	1297.2	2.948	2.352	3.4990	
15 minute summer	S28	23.027	S29	1355.7	3.081	2.471	19.8877	
15 minute summer	S29	23.028	S30	1355.9	3.411	2.427	2.0703	
15 minute summer	S30	23.029	S31	1366.0	5.267	0.524	9.1223	
15 minute summer	S31	23.030	S32	1661.0	3.966	0.662	32.0219	
15 minute summer	S32	23.031	S33	1674.4	4.199	0.597	26.4299	
15 minute summer	S33	23.032	HW2	1668.6	7.539	0.688	4.1408	
15 minute summer	S34	24.000	S35	27.2	1.320	0.358	0.1935	
15 minute summer	S35	24.001	S36	29.4	1.342	0.521	0.1858	
15 minute summer	S36	24.002	S37	78.2	2.132	0.466	0.3258	
15 minute summer	S37	24.003	S38	101.3	2.651	0.433	0.9583	
15 minute summer	S38	24.004	S39	118.5	3.018	0.477	0.3175	
15 minute summer	S39	24.005	S40	144.6	3.013	0.498	1.6251	
15 minute summer	S40	24.006	S13	201.0	1.993	0.977	1.6674	
15 minute summer	S36D	24.000_1	S36C	13.2	1.331	0.552	0.1270	
15 minute summer	S36C	24.001_1	S36B	21.9	1.636	0.279	0.2070	
15 minute summer	S36B	24.002_1	S36A	41.9	1.526	0.338	0.9303	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S36A	10	50.923	0.123	47.0	0.1395	0.0000	OK
15 minute summer	S41	10	47.684	0.059	19.1	0.0671	0.0000	OK
15 minute summer	S42	11	47.105	0.205	46.3	0.2319	0.0000	OK
15 minute summer	S45	10	49.642	0.141	53.4	0.1592	0.0000	OK
15 minute summer	S46	10	48.716	0.166	153.1	0.1877	0.0000	OK
15 minute summer	S47	10	44.225	0.225	170.6	0.2543	0.0000	OK
15 minute summer	S48	10	43.607	0.182	175.0	0.2607	0.0000	OK
15 minute summer	S50	11	42.820	0.282	188.2	0.4035	0.0000	OK
15 minute summer	S51	11	42.691	0.341	192.9	0.4883	0.0000	OK
15 minute summer	S52	11	42.613	0.438	204.5	0.7732	0.0000	OK
15 minute summer	S53	11	42.548	0.400	229.0	0.7068	0.0000	OK
15 minute summer	S54	10	44.113	0.088	24.8	0.0996	0.0000	OK
15 minute summer	S55	10	46.226	0.151	31.8	0.1710	0.0000	OK
15 minute summer	S56	10	46.088	0.113	58.3	0.1276	0.0000	OK
15 minute summer	S57	10	44.923	0.148	63.1	0.1673	0.0000	OK
15 minute summer	S58	10	44.689	0.314	62.5	0.3551	0.0000	SURCHARGED
15 minute summer	S59	10	44.505	0.205	55.3	0.2314	0.0000	OK
15 minute summer	S60	11	44.315	0.220	57.0	0.2489	0.0000	OK
15 minute summer	S61	11	43.422	0.289	125.2	0.4130	0.0000	OK
15 minute summer	S62	11	43.319	0.227	132.6	0.3255	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S36A	24.003_1	S36	46.6	1.368	0.272	0.2891	
15 minute summer	S41	25.000	S42	19.0	1.760	0.153	0.1835	
15 minute summer	S42	25.001	S40	44.3	0.875	0.626	1.8180	
15 minute summer	S45	27.002	S46	52.7	2.080	0.668	0.9700	
15 minute summer	S46	27.003	S47	150.9	3.860	0.567	3.0820	
15 minute summer	S47	27.004	S48	169.9	2.791	0.563	1.5521	
15 minute summer	S48	28.003	S50	174.5	3.141	0.410	1.0436	
15 minute summer	S50	27.007	S51	188.7	1.620	0.443	1.2713	
15 minute summer	S51	27.008	S52	193.6	1.458	0.536	1.0639	
15 minute summer	S52	27.009	S53	205.2	1.111	0.954	2.4940	
15 minute summer	S53	27.010	S19	229.6	1.446	1.056	1.5513	
15 minute summer	S54	28.000	S53	24.5	2.336	0.611	0.3130	
15 minute summer	S55	26.000	S56	31.6	1.305	0.740	0.3566	
15 minute summer	S56	26.001	S57	58.0	2.491	0.500	0.5776	
15 minute summer	S57	26.002	S58	62.5	1.689	0.497	0.2332	
15 minute summer	S58	26.003	S17	62.2	1.565	1.549	0.1808	
15 minute summer	S59	31.000	S60	54.5	1.029	0.770	2.6500	
15 minute summer	S60	31.001	S61	56.8	1.122	0.802	0.2958	
15 minute summer	S61	30.005	S62	125.3	1.550	0.977	0.7965	
15 minute summer	S62	30.006	S63	132.7	2.288	0.568	1.0326	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S63	11	43.014	0.164	202.7	0.2347	0.0000	OK
15 minute summer	S64	11	41.000	0.377	246.5	0.5402	0.0000	OK
15 minute summer	S65	11	40.857	0.268	281.9	0.3833	0.0000	OK
15 minute summer	S66	11	40.562	0.831	342.6	1.1886	0.0000	SURCHARGED
15 minute summer	S67	11	40.312	0.620	359.1	0.8874	0.0000	SURCHARGED
15 minute summer	S68	10	43.787	0.162	29.2	0.1830	0.0000	OK
15 minute summer	S69	11	43.728	0.198	34.5	0.2241	0.0000	OK
15 minute summer	S70	11	43.671	0.199	38.2	0.2255	0.0000	OK
15 minute summer	S71	11	43.586	0.246	63.0	0.2780	0.0000	OK
15 minute summer	S72	11	43.480	0.250	64.0	0.2830	0.0000	OK
15 minute summer	S73	10	43.667	0.117	19.1	0.1323	0.0000	OK
15 minute summer	S74	10	41.484	0.059	18.4	0.0666	0.0000	OK
15 minute summer	S75	11	41.010	0.265	45.0	0.2994	0.0000	OK
15 minute summer	S76	11	41.004	0.337	41.7	0.3809	0.0000	OK
15 minute summer	S77	11	40.590	0.689	54.0	0.9867	0.0000	SURCHARGED
15 minute summer	S78	11	40.570	0.804	57.5	1.1503	0.0000	SURCHARGED
15 minute summer	S79	10	42.685	0.110	39.4	0.1241	0.0000	OK
15 minute summer	S80	10	41.932	0.117	65.3	0.1327	0.0000	OK
15 minute summer	S81	10	40.589	0.164	64.9	0.1856	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S63	30.007	S64	202.9	2.935	0.406	2.4597	
15 minute summer	S64	30.008	S65	245.5	2.144	1.181	0.9817	
15 minute summer	S65	30.009	S66	280.2	1.956	0.375	2.0782	
15 minute summer	S66	30.010	S67	339.7	2.144	1.821	1.8398	
15 minute summer	S67	30.011	S26	358.2	2.262	1.321	2.0167	
15 minute summer	S68	30.000	S69	28.8	0.868	0.721	0.5363	
15 minute summer	S69	30.001	S70	33.9	0.925	0.849	0.3620	
15 minute summer	S70	30.002	S71	38.3	1.106	0.956	0.3318	
15 minute summer	S71	30.003	S72	62.8	1.014	0.887	1.6690	
15 minute summer	S72	30.004	S61	64.1	1.111	0.898	0.3075	
15 minute summer	S73	32.000	S63	18.6	1.292	0.908	0.5156	
15 minute summer	S74	33.000	S75	18.3	1.396	0.054	0.7191	
15 minute summer	S75	33.001	S76	41.7	0.614	0.219	2.4927	
15 minute summer	S76	33.002	S64	45.0	0.349	0.182	1.0138	
15 minute summer	S77	34.000	S78	52.4	0.592	0.282	6.3796	
15 minute summer	S78	34.001	S66	57.1	0.366	0.309	1.6835	
15 minute summer	S79	29.000	S80	39.2	1.953	0.456	0.5629	
15 minute summer	S80	29.001	S81	64.9	2.485	0.542	0.6874	
15 minute summer	S81	29.002	S24	64.4	2.378	0.612	0.1328	

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Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S82	10	40.365	0.115	47.0	0.1304	0.0000	OK
15 minute summer	S83	9	39.077	0.077	46.5	0.0867	0.0000	OK
15 minute summer	S84	12	38.854	1.152	102.6	2.0348	0.0000	SURCHARGED
15 minute summer	S89	10	40.378	0.093	43.2	0.1050	0.0000	OK
15 minute summer	S90	10	38.550	0.250	43.0	0.2831	0.0000	OK
15 minute summer	S91	10	38.533	0.252	66.3	0.2852	0.0000	OK
15 minute summer	S92	10	38.405	0.204	97.2	0.2311	0.0000	OK
15 minute summer	S93	11	38.167	0.167	96.9	0.1894	0.0000	OK
15 minute summer	S94	10	37.780	0.180	146.0	0.2041	0.0000	OK
15 minute summer	Junction 3	10	36.423	0.263	305.0	0.0000	0.0000	OK
15 minute summer	S95	10	38.789	0.064	6.4	0.0720	0.0000	OK
15 minute summer	S96	10	38.645	0.045	6.3	0.0505	0.0000	OK
15 minute summer	Junction 4	10	38.487	0.239	72.2	0.0000	0.0000	OK
15 minute summer	S97	10	36.642	0.195	160.8	0.3448	0.0000	OK
15 minute summer	Dummy 1	13	32.708	0.142	71.4	0.0000	0.0000	OK
15 minute summer	R1	10	41.411	0.011	3.8	0.0000	0.0000	OK
15 minute summer	R2	10	41.215	0.015	5.1	0.0000	0.0000	OK
15 minute summer	R3	10	41.128	0.028	15.3	0.0000	0.0000	OK
15 minute summer	R4	10	39.939	0.039	24.0	0.0000	0.0000	OK
15 minute summer	R5	10	39.453	0.053	37.7	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S82	35.000	S83	46.5	2.339	0.488	0.6999	
15 minute summer	S83	35.001	S84	47.9	3.236	0.132	0.3334	
15 minute summer	S84	35.002	S27	93.0	1.048	0.050	12.7917	
15 minute summer	S89	38.000	S90	43.0	2.165	0.360	0.8883	
15 minute summer	S90	38.001	S91	42.2	0.674	0.590	0.2862	
15 minute summer	S91	38.002	Junction 4	65.9	1.067	0.940	0.5075	
15 minute summer	S92	38.004	S93	96.9	2.118	0.634	0.4876	
15 minute summer	S93	38.005	S94	97.2	2.300	0.491	0.5360	
15 minute summer	S94	38.006	Junction 3	145.2	3.385	0.635	1.1648	
15 minute summer	Junction 3	38.007	S31	303.7	2.619	0.381	5.3609	
15 minute summer	S95	39.000	S96	6.3	1.109	0.327	0.0601	
15 minute summer	S96	39.001	Junction 4	6.3	1.247	0.192	0.0459	
15 minute summer	Junction 4	38.003	S92	72.3	1.299	1.028	0.6480	
15 minute summer	S97	40.000	Junction 3	160.2	1.630	0.201	2.1264	
15 minute summer	R1	41.000	R2	3.8	0.585	0.011	0.0274	
15 minute summer	R2	41.001	R3	5.1	0.467	0.019	0.0363	
15 minute summer	R3	41.002	R4	15.1	0.899	0.053	0.5947	
15 minute summer	R4	41.003	R5	23.7	1.030	0.087	0.3712	
15 minute summer	R5	41.004	R6	37.1	1.198	0.143	1.2031	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	R6	11	38.371	0.071	58.1	0.0000	0.0000	OK
15 minute summer	R7	11	37.492	0.092	75.4	0.0000	0.0000	OK
15 minute summer	R8	11	36.390	0.090	80.0	0.0000	0.0000	OK
15 minute summer	R9	11	36.149	0.119	90.4	0.0000	0.0000	OK
15 minute summer	R10	11	35.964	0.154	92.9	0.0000	0.0000	OK
15 minute summer	R11	11	35.871	0.111	101.3	0.0000	0.0000	OK
15 minute summer	R12	11	35.573	0.183	119.4	0.0000	0.0000	OK
15 minute summer	R13	11	35.486	0.126	119.3	0.0000	0.0000	OK
15 minute summer	R14	11	35.097	0.077	119.2	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	R6	41.005	R7	57.6	1.411	0.224	1.3179	
15 minute summer	R7	41.006	R8	75.8	1.663	0.328	2.2340	
15 minute summer	R8	41.007	R9	80.1	1.527	0.320	0.5375	
15 minute summer	R9	41.008	R10	90.5	1.325	0.475	0.9831	
15 minute summer	R10	41.009	R11	92.8	1.401	0.693	0.4383	
15 minute summer	R11	41.010	R12	101.2	1.374	0.437	1.2042	
15 minute summer	R12	41.011	R13	119.3	1.541	0.887	0.3050	
15 minute summer	R13	41.012	R14	119.2	2.342	0.503	0.7307	
15 minute summer	R14	Weir	HW2	119.2				53.3

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	HW2	54	33.515	0.949	2687.1	2415.3310	0.0000	SURCHARGED
15 minute summer	S98	11	50.068	0.278	29.9	0.3141	0.0000	SURCHARGED
15 minute summer	S99	11	49.619	0.224	28.8	0.2531	0.0000	OK
15 minute summer	S100	11	49.578	0.248	44.2	0.2803	0.0000	SURCHARGED
15 minute summer	S101	11	49.446	0.286	77.7	0.3234	0.0000	OK
15 minute summer	S102	11	49.382	0.282	95.0	0.3195	0.0000	OK
15 minute summer	S103	11	49.095	0.470	145.7	0.6719	0.0000	SURCHARGED
15 minute summer	S104	11	48.874	0.449	207.4	0.6426	0.0000	SURCHARGED
15 minute summer	S105	11	48.633	0.408	214.6	0.5833	0.0000	SURCHARGED
15 minute summer	S106	11	48.418	0.293	243.7	0.4199	0.0000	OK
15 minute summer	S107	10	48.116	0.291	314.9	0.4163	0.0000	OK
15 minute summer	S108	11	47.249	0.324	319.1	0.4636	0.0000	OK
15 minute summer	S109	11	46.854	0.979	472.7	1.4006	0.0000	SURCHARGED
15 minute summer	S110	12	46.149	0.313	473.0	0.4472	0.0000	OK
15 minute summer	S111	12	45.184	0.784	540.4	1.3846	0.0000	SURCHARGED
15 minute summer	S112	12	44.923	0.689	550.8	1.2182	0.0000	SURCHARGED
15 minute summer	S113	12	44.761	0.589	555.9	1.0411	0.0000	OK
15 minute summer	S114	12	44.568	0.452	563.2	0.7980	0.0000	OK
15 minute summer	S115	12	44.323	0.423	586.2	0.7482	0.0000	OK
15 minute summer	S116	12	44.039	0.439	592.5	0.7758	0.0000	OK
15 minute summer	S117	12	43.790	0.490	613.6	0.8654	0.0000	OK
15 minute summer	S118	12	43.554	0.454	625.0	0.8018	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	HW2	Dummy Pipe	Dummy 1	100.1	5.685	5.663	0.0174	478.3
60 minute winter	HW2	Infiltration		132.8				
60 minute winter	HW2	Infiltration		314.3				
15 minute summer	S98	1.000	S99	28.8	1.636	1.074	0.2489	
15 minute summer	S99	1.001	S100	28.2	0.750	0.703	0.4323	
15 minute summer	S100	1.002	S101	42.8	1.148	1.065	0.6198	
15 minute summer	S101	1.003	S102	76.3	1.370	0.864	0.6534	
15 minute summer	S102	1.004	Junction 1	93.7	1.678	0.646	0.5901	
15 minute summer	S103	1.006	Junction 2	141.6	1.349	0.788	0.7378	
15 minute summer	S104	1.008	S105	206.7	1.874	0.860	1.5311	
15 minute summer	S105	1.009	S106	214.4	2.122	0.952	0.8013	
15 minute summer	S106	1.010	S107	243.6	2.777	0.633	0.7498	
15 minute summer	S107	1.011	S108	314.6	3.627	0.796	2.2358	
15 minute summer	S108	1.012	S109	320.4	2.981	0.479	0.9304	
15 minute summer	S109	1.013	S110	473.0	3.155	3.282	2.6670	
15 minute summer	S110	1.014	S111	477.2	3.640	0.662	3.5953	
15 minute summer	S111	1.015	S112	539.8	1.917	1.014	7.7895	
15 minute summer	S112	1.016	S113	551.5	1.958	1.041	2.9332	
15 minute summer	S113	1.017	S114	556.6	2.172	1.042	2.3560	
15 minute summer	S114	1.018	S115	563.5	2.578	0.581	2.4053	
15 minute summer	S115	1.019	S116	586.6	2.724	0.500	2.2490	
15 minute summer	S116	1.020	S117	593.1	2.551	0.478	2.1647	
15 minute summer	S117	1.021	S118	614.8	2.587	0.614	2.2518	
15 minute summer	S118	1.022	S119	626.3	2.795	0.516	1.8123	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S119	12	43.286	0.436	630.7	0.7706	0.0000	OK
15 minute summer	S120	12	42.955	0.355	648.1	0.6278	0.0000	OK
15 minute summer	S121	12	42.415	0.415	653.5	0.7333	0.0000	OK
15 minute summer	S122	12	42.117	0.517	924.2	0.9139	0.0000	OK
15 minute summer	S123	12	41.400	1.500	908.5	2.6505	1.0928	FLOOD
15 minute summer	S124	12	40.950	1.500	898.3	2.6505	2.0762	FLOOD
15 minute summer	S125	12	40.500	1.500	1052.1	2.6505	2.7874	FLOOD
15 minute summer	S126	12	39.995	1.295	1011.4	2.2875	0.0000	FLOOD RISK
15 minute summer	S127	12	39.470	0.970	1022.5	1.7137	0.0000	SURCHARGED
15 minute summer	S128	12	38.767	0.767	1032.1	1.3546	0.0000	SURCHARGED
15 minute summer	S129	11	37.832	0.431	1368.4	0.7621	0.0000	OK
15 minute summer	S130	12	36.106	0.756	1574.3	1.3352	0.0000	SURCHARGED
15 minute summer	S131	12	35.605	1.045	1532.0	1.8474	0.0000	SURCHARGED
15 minute summer	S132	12	34.921	1.412	2275.0	6.3899	0.0000	SURCHARGED
15 minute summer	S133	12	34.203	0.986	2516.4	4.4611	0.0000	SURCHARGED
60 minute winter	S134	55	33.518	0.876	1448.8	3.9626	0.0000	FLOOD RISK
15 minute summer	S135	10	49.802	0.117	29.0	0.1327	0.0000	OK
15 minute summer	S136	10	49.610	0.098	28.9	0.1114	0.0000	OK
15 minute summer	S137	10	48.999	0.084	44.5	0.0947	0.0000	OK
15 minute summer	S138	10	49.293	0.168	44.8	0.1895	0.0000	OK
15 minute summer	S137A	10	47.295	0.120	44.4	0.1363	0.0000	OK
15 minute summer	S139	10	49.884	0.109	35.5	0.1230	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S119	1.023	S120	632.0	3.210	0.530	1.6466	
15 minute summer	S120	1.024	S121	649.8	3.518	0.432	2.4179	
15 minute summer	S121	1.025	S122	656.0	3.670	0.382	1.5084	
15 minute summer	S122	1.026	S123	902.6	3.894	0.591	9.3750	
15 minute summer	S123	1.027	S124	890.2	3.161	0.660	3.3151	
15 minute summer	S124	1.028	S125	868.2	3.082	0.688	3.7908	
15 minute summer	S125	1.029	S126	1005.5	3.570	0.776	2.4005	
15 minute summer	S126	1.030	S127	1011.5	3.591	0.992	2.5751	
15 minute summer	S127	1.031	S128	1022.6	3.631	0.858	4.7209	
15 minute summer	S128	1.032	S129	1032.4	3.870	0.913	4.1757	
15 minute summer	S129	1.033	S130	1369.0	4.517	0.577	19.3918	
15 minute summer	S130	1.034	S131	1524.3	4.417	0.522	6.2660	
15 minute summer	S131	1.035	S132	1533.1	3.484	0.617	11.3256	
15 minute summer	S132	1.036	S133	2282.7	2.593	1.367	59.3556	
15 minute summer	S133	1.037	S134	2515.6	2.858	1.095	57.8790	
60 minute winter	S134	1.038	HW2	1426.4	3.483	0.772	11.9273	
15 minute summer	S135	2.000	S136	28.9	1.568	0.457	0.2211	
15 minute summer	S136	2.001	S101	28.6	1.390	0.353	0.3095	
15 minute summer	S137	7.001	S137A	44.4	3.558	0.240	0.0990	
15 minute summer	S138	7.000	S137	44.5	1.954	0.774	0.3877	
15 minute summer	S137A	7.002	S147A	44.1	2.180	0.472	0.3706	
15 minute summer	S139	3.000	S140	35.3	1.823	0.440	0.4552	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S140	10	49.333	0.113	35.3	0.1277	0.0000	OK
15 minute summer	S141	10	49.437	0.112	31.8	0.1271	0.0000	OK
15 minute summer	S142	11	49.055	0.100	31.4	0.1127	0.0000	OK
15 minute summer	S143	10	49.261	0.086	27.1	0.0969	0.0000	OK
15 minute summer	S144	11	48.900	0.225	27.0	0.2548	0.0000	SURCHARGED
15 minute summer	S145	10	49.258	0.083	29.0	0.0944	0.0000	OK
15 minute summer	S146	10	48.572	0.097	28.9	0.1092	0.0000	OK
15 minute summer	S147	12	47.064	0.214	18.7	0.3058	0.0000	OK
15 minute summer	S147A	12	47.048	0.498	92.5	0.7131	0.0000	SURCHARGED
15 minute summer	S148	12	47.018	0.818	162.4	0.9255	0.0000	SURCHARGED
15 minute summer	S149	10	43.560	0.085	43.9	0.0964	0.0000	OK
15 minute summer	S150	10	42.168	0.418	259.9	0.7393	0.0000	OK
15 minute summer	S151	10	42.642	0.167	53.3	0.1891	0.0000	OK
15 minute summer	S152	11	41.112	0.812	143.9	0.9181	0.0000	SURCHARGED
15 minute summer	S153	12	40.747	1.172	178.9	1.6777	0.0000	FLOOD RISK
15 minute summer	S154	12	40.605	1.330	201.2	1.9033	0.0000	FLOOD RISK
15 minute summer	S155	12	40.551	1.295	195.8	1.8538	0.0000	FLOOD RISK
15 minute summer	S156	10	38.353	0.128	45.6	0.1445	0.0000	OK
15 minute summer	S157	10	39.928	0.103	45.8	0.1166	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S140	3.001	Junction 1	34.7	1.585	0.399	0.2021	
15 minute summer	S141	4.000	S142	31.4	1.805	0.437	0.3515	
15 minute summer	S142	4.001	Junction 2	32.6	1.711	0.345	0.2026	
15 minute summer	S143	5.000	S144	27.0	1.477	0.311	0.4807	
15 minute summer	S144	5.001	S104	24.5	1.239	0.397	0.2811	
15 minute summer	S145	6.000	S146	28.9	1.951	0.282	0.2699	
15 minute summer	S146	6.001	S106	28.7	1.763	0.298	0.1248	
15 minute summer	S147	8.000	S147A	29.7	0.569	0.090	3.3277	
15 minute summer	S147A	7.003	S148	99.9	1.102	0.278	4.4977	
15 minute summer	S148	7.004	S109	149.3	0.943	0.629	9.5020	
15 minute summer	S149	10.000	S150	43.7	3.338	0.268	0.1818	
15 minute summer	S150	9.001	S122	253.7	1.377	0.830	17.4220	
15 minute summer	S151	9.000	S150	52.7	1.751	0.809	0.6732	
15 minute summer	S152	11.000	S153	135.2	2.523	0.737	1.6919	
15 minute summer	S153	11.001	S154	173.6	1.838	0.727	1.7448	
15 minute summer	S154	11.002	S155	193.0	1.458	1.184	1.1688	
15 minute summer	S155	11.003	S125	184.1	1.872	0.427	0.9497	
15 minute summer	S156	13.001	S159	45.1	2.131	0.478	0.1618	
15 minute summer	S157	13.000	S156	45.6	2.222	0.434	0.8123	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S158	10	38.604	0.204	214.0	0.3610	0.0000	OK
15 minute summer	S159	11	38.072	0.472	332.2	0.8332	0.0000	OK
15 minute summer	S160A	10	37.878	0.128	39.2	0.1450	0.0000	OK
15 minute summer	S160B	10	37.792	0.131	39.0	0.1486	0.0000	OK
15 minute summer	S160C	10	37.735	0.122	38.7	0.1380	0.0000	OK
15 minute summer	S160	10	37.670	0.120	99.2	0.1361	0.0000	OK
15 minute summer	S161	10	36.419	0.219	203.0	0.2478	0.0000	OK
15 minute summer	S162	10	36.667	0.067	9.3	0.0757	0.0000	OK
15 minute summer	S163	10	40.451	0.176	29.9	0.1989	0.0000	OK
15 minute summer	S164	10	40.402	0.177	34.4	0.2001	0.0000	OK
15 minute summer	S165	10	40.307	0.218	63.8	0.2466	0.0000	OK
15 minute summer	S166	10	40.181	0.163	63.4	0.1843	0.0000	OK
15 minute summer	S167	10	40.066	0.166	76.0	0.1878	0.0000	OK
15 minute summer	S168	11	39.842	0.192	154.1	0.2168	0.0000	OK
15 minute summer	S169	11	38.593	0.793	177.8	0.8964	0.0000	SURCHARGED
15 minute summer	S170	11	38.231	0.781	183.7	0.8830	0.0000	SURCHARGED
15 minute summer	S171	12	37.775	0.850	312.6	1.2157	0.0000	SURCHARGED
15 minute summer	S172	12	37.379	0.604	330.3	0.8643	0.0000	SURCHARGED
15 minute summer	S173	12	36.939	0.314	398.3	0.4489	0.0000	OK
15 minute summer	S174	12	35.886	1.435	505.5	2.0531	0.0000	SURCHARGED
15 minute summer	S175	12	35.598	1.217	510.5	1.7414	0.0000	SURCHARGED
15 minute summer	S176	12	35.477	1.749	537.6	3.0913	0.0000	SURCHARGED
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S158	12.000	S159	212.5	1.317	0.260	9.1833	
15 minute summer	S159	12.001	S129	327.6	1.543	1.074	5.2090	
15 minute summer	S160A	14.000_1	S160B	39.0	1.032	0.148	0.5047	
15 minute summer	S160B	14.001_1	S160C	38.7	1.058	0.147	0.2645	
15 minute summer	S160C	14.002	S160	38.5	1.130	0.118	0.2140	
15 minute summer	S160	14.000	S161	98.6	3.027	0.142	0.8548	
15 minute summer	S161	14.001	S130	201.9	1.765	0.289	12.3867	
15 minute summer	S162	15.000	S161	9.2	0.812	0.101	0.1695	
15 minute summer	S163	16.000	S164	29.7	0.888	0.740	0.2795	
15 minute summer	S164	16.001	S165	33.9	1.083	0.848	0.3204	
15 minute summer	S165	16.002	S166	63.4	1.343	0.905	0.8324	
15 minute summer	S166	16.003	S167	62.9	1.595	0.378	0.2092	
15 minute summer	S167	16.004	S168	75.7	1.791	0.474	0.5321	
15 minute summer	S168	16.005	S169	150.7	2.615	0.660	2.6039	
15 minute summer	S169	16.006	S170	170.3	2.498	0.760	0.6107	
15 minute summer	S170	16.007	S171	181.8	2.581	0.790	0.7460	
15 minute summer	S171	16.008	S172	312.9	2.837	1.115	0.8447	
15 minute summer	S172	16.009	S173	330.2	3.072	1.133	0.7412	
15 minute summer	S173	16.010	S174	390.7	4.508	0.667	2.3996	
15 minute summer	S174	16.011	S175	506.1	2.196	1.660	9.9283	
15 minute summer	S175	16.012	S176	506.5	3.042	0.259	1.7667	
15 minute summer	S176	16.013	S177	543.8	1.236	0.992	2.6535	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S177	12	35.431	1.715	573.3	3.0302	0.0000	SURCHARGED
15 minute summer	S178	12	35.310	1.671	585.0	2.9531	0.0000	SURCHARGED
15 minute summer	S179	12	35.239	1.627	725.4	2.8746	0.0000	SURCHARGED
15 minute summer	S180	12	35.052	1.508	731.2	2.6644	0.0000	SURCHARGED
15 minute summer	S181	10	39.948	0.073	24.3	0.0830	0.0000	OK
15 minute summer	S182	10	39.065	0.115	60.5	0.1296	0.0000	OK
15 minute summer	S183	10	38.086	0.186	104.2	0.2105	0.0000	OK
15 minute summer	S184	10	37.642	0.262	103.1	0.2969	0.0000	OK
15 minute summer	S185	10	37.468	0.168	167.9	0.1899	0.0000	OK
15 minute summer	S186	12	35.480	0.530	169.9	0.5990	0.0000	SURCHARGED
15 minute summer	S187	12	38.491	0.516	25.2	0.5840	0.0000	SURCHARGED
15 minute summer	S188	12	38.458	0.733	46.3	0.8294	0.0000	SURCHARGED
15 minute summer	S189	12	38.302	0.673	45.3	0.7615	0.0000	SURCHARGED
15 minute summer	S190	12	38.213	0.713	122.8	0.8064	0.0000	SURCHARGED
15 minute summer	S191	12	38.004	0.629	126.7	0.7114	0.0000	SURCHARGED
15 minute summer	S192	12	38.475	0.700	22.4	0.7915	0.0000	SURCHARGED
15 minute summer	S193	11	38.686	0.711	61.7	0.8044	0.0000	SURCHARGED
15 minute summer	S194	12	35.899	1.049	40.2	1.1859	0.0000	SURCHARGED
15 minute summer	S195	12	35.853	1.127	60.3	1.2750	0.0000	SURCHARGED
15 minute summer	S196	12	35.848	1.201	54.7	1.3584	0.0000	SURCHARGED
15 minute summer	S197	12	35.518	1.268	65.6	5.4491	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S177	16.014	S178	579.6	1.317	1.052	16.8804	
15 minute summer	S178	16.015	S179	589.9	1.340	1.082	6.0429	
15 minute summer	S179	16.016	S180	724.6	1.646	1.318	14.9575	
15 minute summer	S180	16.017	S132	730.2	1.659	1.333	7.7598	
15 minute summer	S181	22.000	S182	24.2	2.224	0.211	0.1926	
15 minute summer	S182	22.001	S183	60.3	1.706	0.315	1.2558	
15 minute summer	S183	22.002	S184	103.1	1.827	0.636	1.3643	
15 minute summer	S184	22.003	S185	102.5	1.953	1.043	0.5408	
15 minute summer	S185	22.004	S186	169.9	4.095	0.577	1.8330	
15 minute summer	S186	22.005	S179	156.4	4.189	0.394	0.4871	
15 minute summer	S187	17.000	S188	23.7	1.023	0.407	0.6340	
15 minute summer	S188	17.001	S189	45.3	1.139	1.132	0.6406	
15 minute summer	S189	17.002	S190	51.7	1.301	1.114	0.2686	
15 minute summer	S190	17.003	S191	120.9	1.891	1.016	0.7672	
15 minute summer	S191	17.004	S171	127.3	2.032	0.609	0.7527	
15 minute summer	S192	18.000	S188	18.5	0.532	0.460	0.3315	
15 minute summer	S193	19.000	S190	57.0	1.465	1.025	1.3924	
15 minute summer	S194	20.000	S195	36.9	0.794	0.148	3.2926	
15 minute summer	S195	20.001	S196	54.7	0.786	0.219	2.0861	
15 minute summer	S196	20.002	S174	91.0	0.950	0.414	1.5665	
15 minute summer	S197	21.000	S198	75.8	0.885	0.288	4.6616	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S198	12	35.482	1.428	75.8	1.6150	0.0000	SURCHARGED
15 minute summer	Junction 1	11	49.308	0.352	128.5	0.0000	0.0000	SURCHARGED
15 minute summer	Junction 2	11	49.040	0.469	171.1	0.0000	0.0000	SURCHARGED
15 minute summer	S1	11	51.067	0.292	33.6	0.3298	0.0000	SURCHARGED
15 minute summer	S2	11	50.927	0.332	39.6	0.3757	0.0000	SURCHARGED
15 minute summer	S3	11	50.857	0.305	58.6	0.3454	0.0000	SURCHARGED
15 minute summer	S4	11	50.693	0.253	62.4	0.2862	0.0000	OK
15 minute summer	S5	11	50.617	0.237	62.7	0.2680	0.0000	OK
15 minute summer	S6	11	50.558	0.196	118.5	0.2215	0.0000	OK
15 minute summer	S7	12	49.942	0.442	146.6	0.5000	0.0000	SURCHARGED
15 minute summer	S8	12	49.699	0.599	158.6	0.6773	0.0000	SURCHARGED
15 minute summer	S9	12	49.444	0.744	160.6	0.8416	0.0000	SURCHARGED
15 minute summer	S10	12	49.116	0.816	185.6	0.9229	0.0000	SURCHARGED
15 minute summer	S11	12	48.527	0.827	211.8	0.9353	0.0000	SURCHARGED
15 minute summer	S12	12	47.772	0.772	206.7	0.8727	0.0000	SURCHARGED
15 minute summer	S13	12	47.237	0.787	512.5	1.1263	0.0000	SURCHARGED
15 minute summer	S14	12	46.430	1.080	517.2	1.5461	0.0000	FLOOD RISK
15 minute summer	S15	12	45.851	1.101	524.2	1.5751	0.0000	FLOOD RISK
15 minute summer	S16	12	45.343	0.893	528.7	1.2780	0.0000	SURCHARGED
15 minute summer	S17	12	44.838	0.716	617.0	1.0249	0.0000	SURCHARGED
15 minute summer	S18	12	44.149	0.399	630.8	0.5716	0.0000	OK
15 minute summer	S19	12	42.335	0.432	976.7	0.7633	0.0000	OK
15 minute summer	S20	12	41.845	1.395	956.4	2.4649	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S198	21.001	S176	79.2	0.702	0.349	0.8334	
15 minute summer	Junction 1	1.005	S103	125.1	2.134	0.869	0.9723	
15 minute summer	Junction 2	1.007	S104	171.0	1.563	0.957	2.0166	
15 minute summer	S1	23.000	S2	32.5	0.857	0.812	1.1965	
15 minute summer	S2	23.001	S3	39.9	1.003	0.995	0.2859	
15 minute summer	S3	23.002	S4	58.8	1.480	1.475	0.2405	
15 minute summer	S4	23.003	S5	62.7	1.018	0.887	0.9040	
15 minute summer	S5	23.004	S6	63.3	1.229	0.894	0.2384	
15 minute summer	S6	23.005	S7	120.0	2.226	0.750	2.4873	
15 minute summer	S7	23.006	S8	140.8	2.501	0.656	0.7617	
15 minute summer	S8	23.007	S9	151.3	2.607	0.616	0.5825	
15 minute summer	S9	23.008	S10	158.2	2.481	0.729	0.7437	
15 minute summer	S10	23.009	S11	181.3	2.775	0.826	1.0924	
15 minute summer	S11	23.010	S12	206.7	2.988	0.852	1.0434	
15 minute summer	S12	23.011	S13	214.6	3.437	0.888	0.6012	
15 minute summer	S13	23.012	S14	509.2	3.713	0.698	3.4490	
15 minute summer	S14	23.013	S15	516.1	3.258	0.711	1.8975	
15 minute summer	S15	23.014	S16	525.0	3.314	0.862	1.3485	
15 minute summer	S16	23.015	S17	529.4	3.342	0.811	1.2821	
15 minute summer	S17	23.016	S18	617.6	3.903	0.843	1.1204	
15 minute summer	S18	23.017	S19	631.8	4.673	0.886	4.3204	
15 minute summer	S19	23.018	S20	954.2	3.153	0.400	13.7482	
15 minute summer	S20	23.019	S21	935.3	2.264	0.433	2.8885	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S21	12	41.693	1.443	938.2	2.5494	0.0000	FLOOD RISK
15 minute summer	S22	12	41.538	1.388	948.1	2.4527	0.0000	FLOOD RISK
15 minute summer	S23	12	41.341	1.491	961.0	2.6339	0.0000	FLOOD RISK
15 minute summer	S24	12	41.150	1.450	1046.6	2.5627	0.0000	FLOOD RISK
15 minute summer	S25	12	40.839	1.439	1076.0	3.6610	0.0000	FLOOD RISK
15 minute summer	S26	12	40.484	1.184	1528.5	3.0137	0.0000	SURCHARGED
15 minute summer	S27	12	39.775	2.725	1639.8	8.7784	0.0000	SURCHARGED
15 minute summer	S28	12	39.286	2.252	1726.8	5.7315	0.0000	SURCHARGED
15 minute summer	S29	12	38.033	1.089	1725.1	2.7713	0.0000	SURCHARGED
15 minute summer	S30	12	37.463	0.531	1735.2	1.3508	0.0000	OK
15 minute summer	S31	12	35.994	0.724	2151.6	1.8413	0.0000	OK
15 minute summer	S32	12	34.731	0.670	2162.3	1.7064	0.0000	OK
60 minute winter	S33	54	33.517	0.767	1213.4	1.9515	0.0000	OK
15 minute summer	S34	10	51.110	0.135	40.2	0.1524	0.0000	OK
15 minute summer	S35	10	50.946	0.171	43.7	0.1933	0.0000	OK
15 minute summer	S36	10	50.824	0.224	115.5	0.2539	0.0000	OK
15 minute summer	S37	10	50.581	0.181	149.5	0.2048	0.0000	OK
15 minute summer	S38	10	49.543	0.243	175.1	0.2751	0.0000	OK
15 minute summer	S39	11	49.123	0.223	213.2	0.2521	0.0000	OK
15 minute summer	S40	12	47.700	0.999	294.4	1.4293	0.0000	SURCHARGED
15 minute summer	S36D	10	52.063	0.113	19.6	0.1278	0.0000	OK
15 minute summer	S36C	10	51.753	0.108	32.5	0.1224	0.0000	OK
15 minute summer	S36B	10	51.376	0.156	62.2	0.1767	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S21	23.020	S22	944.5	2.308	0.643	3.1235	
15 minute summer	S22	23.021	S23	955.6	2.223	0.536	6.3606	
15 minute summer	S23	23.022	S24	968.0	2.200	0.723	5.6375	
15 minute summer	S24	23.023	S25	1053.4	2.394	0.778	11.0039	
15 minute summer	S25	23.024	S26	1084.8	2.635	1.475	12.3559	
15 minute summer	S26	23.025	S27	1536.1	3.490	0.429	11.8560	
15 minute summer	S27	23.026	S28	1636.8	3.719	2.968	3.4990	
15 minute summer	S28	23.027	S29	1725.1	3.920	3.145	19.8877	
15 minute summer	S29	23.028	S30	1724.2	4.118	3.086	2.2469	
15 minute summer	S30	23.029	S31	1733.5	5.399	0.665	11.8659	
15 minute summer	S31	23.030	S32	2162.3	4.110	0.862	40.2526	
15 minute summer	S32	23.031	S33	2164.5	4.391	0.771	33.1468	
60 minute winter	S33	23.032	HW2	1199.1	5.119	0.495	7.5305	
15 minute summer	S34	24.000	S35	40.0	1.394	0.526	0.2686	
15 minute summer	S35	24.001	S36	43.3	1.433	0.767	0.2556	
15 minute summer	S36	24.002	S37	115.1	2.284	0.687	0.4461	
15 minute summer	S37	24.003	S38	148.9	2.804	0.637	1.3230	
15 minute summer	S38	24.004	S39	174.5	3.129	0.702	0.4729	
15 minute summer	S39	24.005	S40	211.7	3.190	0.729	1.9880	
15 minute summer	S40	24.006	S13	276.5	2.507	1.344	1.8358	
15 minute summer	S36D	24.000_1	S36C	19.4	1.432	0.813	0.1734	
15 minute summer	S36C	24.001_1	S36B	32.3	1.798	0.411	0.2773	
15 minute summer	S36B	24.002_1	S36A	61.7	1.611	0.498	1.2980	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S36A	10	50.965	0.165	69.2	0.1861	0.0000	OK
15 minute summer	S41	12	47.844	0.219	28.0	0.2479	0.0000	OK
15 minute summer	S42	12	47.808	0.908	68.1	1.0266	0.0000	FLOOD RISK
15 minute summer	S45	10	49.697	0.196	78.5	0.2216	0.0000	OK
15 minute summer	S46	10	48.764	0.214	225.1	0.2424	0.0000	OK
15 minute summer	S47	10	44.302	0.302	252.2	0.3413	0.0000	OK
15 minute summer	S48	11	43.673	0.248	257.0	0.3548	0.0000	OK
15 minute summer	S50	11	43.077	0.539	278.1	0.7714	0.0000	SURCHARGED
15 minute summer	S51	11	42.916	0.566	285.3	0.8101	0.0000	SURCHARGED
15 minute summer	S52	11	42.770	0.595	301.7	1.0515	0.0000	SURCHARGED
15 minute summer	S53	11	42.670	0.522	337.0	0.9225	0.0000	OK
15 minute summer	S54	10	44.141	0.116	36.4	0.1316	0.0000	OK
15 minute summer	S55	11	46.290	0.215	46.7	0.2427	0.0000	OK
15 minute summer	S56	11	46.142	0.167	85.0	0.1888	0.0000	OK
15 minute summer	S57	11	45.394	0.619	90.7	0.7003	0.0000	SURCHARGED
15 minute summer	S58	12	45.078	0.703	87.0	0.7947	0.0000	SURCHARGED
15 minute summer	S59	10	44.672	0.372	81.3	0.4212	0.0000	SURCHARGED
15 minute summer	S60	11	44.382	0.287	81.8	0.3249	0.0000	OK
15 minute summer	S61	11	43.562	0.429	179.8	0.6144	0.0000	SURCHARGED
15 minute summer	S62	11	43.388	0.296	190.6	0.4229	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S36A	24.003_1	S36	68.5	1.431	0.400	0.4055	
15 minute summer	S41	25.000	S42	27.9	1.726	0.225	0.4562	
15 minute summer	S42	25.001	S40	65.2	0.926	0.921	2.1314	
15 minute summer	S45	27.002	S46	77.5	2.207	0.983	1.4495	
15 minute summer	S46	27.003	S47	223.2	4.054	0.839	4.3716	
15 minute summer	S47	27.004	S48	249.5	2.953	0.828	2.1781	
15 minute summer	S48	28.003	S50	258.5	3.083	0.608	1.6997	
15 minute summer	S50	27.007	S51	279.1	1.762	0.656	1.7251	
15 minute summer	S51	27.008	S52	285.7	1.803	0.790	1.2682	
15 minute summer	S52	27.009	S53	302.0	1.398	1.404	2.9195	
15 minute summer	S53	27.010	S19	337.3	1.687	1.551	1.9110	
15 minute summer	S54	28.000	S53	36.6	2.465	0.913	0.4641	
15 minute summer	S55	26.000	S56	45.9	1.393	1.075	0.5221	
15 minute summer	S56	26.001	S57	83.2	2.519	0.716	0.8661	
15 minute summer	S57	26.002	S58	87.0	2.189	0.692	0.2750	
15 minute summer	S58	26.003	S17	85.8	2.156	2.137	0.1858	
15 minute summer	S59	31.000	S60	78.2	1.111	1.106	3.5009	
15 minute summer	S60	31.001	S61	82.5	1.289	1.164	0.3684	
15 minute summer	S61	30.005	S62	179.9	1.667	1.402	1.0069	
15 minute summer	S62	30.006	S63	190.7	2.405	0.816	1.4382	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S63	11	43.074	0.224	292.5	0.3207	0.0000	OK
15 minute summer	S64	12	41.823	1.200	325.7	1.7167	0.0000	SURCHARGED
15 minute summer	S65	12	41.632	1.043	367.1	1.4928	0.0000	SURCHARGED
15 minute summer	S66	12	41.277	1.546	438.7	2.2129	0.0000	FLOOD RISK
15 minute summer	S67	12	40.915	1.223	458.8	1.7503	0.0000	FLOOD RISK
15 minute summer	S68	11	44.272	0.647	43.0	0.7318	0.0000	SURCHARGED
15 minute summer	S69	11	44.144	0.614	48.5	0.6946	0.0000	SURCHARGED
15 minute summer	S70	11	44.020	0.548	54.1	0.6195	0.0000	SURCHARGED
15 minute summer	S71	11	43.865	0.525	89.4	0.5942	0.0000	SURCHARGED
15 minute summer	S72	11	43.642	0.412	91.1	0.4664	0.0000	SURCHARGED
15 minute summer	S73	11	44.051	0.501	28.0	0.5670	0.0000	SURCHARGED
15 minute summer	S74	12	41.837	0.412	29.5	0.4660	0.0000	SURCHARGED
15 minute summer	S75	12	41.839	1.094	66.2	1.2375	0.0000	FLOOD RISK
15 minute summer	S76	12	41.828	1.161	59.1	1.3128	0.0000	SURCHARGED
15 minute summer	S77	12	41.250	1.350	79.4	1.9319	1.9889	FLOOD
15 minute summer	S78	12	41.274	1.508	80.3	2.1580	0.0000	SURCHARGED
15 minute summer	S79	10	42.715	0.140	57.9	0.1589	0.0000	OK
15 minute summer	S80	12	41.992	0.177	95.9	0.1998	0.0000	OK
15 minute summer	S81	12	41.344	0.919	94.9	1.0392	0.0000	FLOOD RISK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S63	30.007	S64	291.7	3.008	0.583	3.1100	
15 minute summer	S64	30.008	S65	323.2	2.133	1.555	1.2945	
15 minute summer	S65	30.009	S66	368.6	2.327	0.493	2.5647	
15 minute summer	S66	30.010	S67	430.3	2.716	2.307	1.8398	
15 minute summer	S67	30.011	S26	449.7	2.838	1.658	2.0674	
15 minute summer	S68	30.000	S69	40.5	1.017	1.012	0.6353	
15 minute summer	S69	30.001	S70	47.9	1.205	1.198	0.3876	
15 minute summer	S70	30.002	S71	54.0	1.357	1.347	0.3793	
15 minute summer	S71	30.003	S72	89.3	1.268	1.260	1.8868	
15 minute summer	S72	30.004	S61	91.1	1.294	1.275	0.3718	
15 minute summer	S73	32.000	S63	26.0	1.477	1.270	0.6224	
15 minute summer	S74	33.000	S75	32.6	1.393	0.097	2.3793	
15 minute summer	S75	33.001	S76	59.1	0.636	0.310	3.5225	
15 minute summer	S76	33.002	S64	65.8	0.572	0.267	1.1931	
15 minute summer	S77	34.000	S78	72.8	0.631	0.392	6.3796	
15 minute summer	S78	34.001	S66	73.5	0.464	0.398	1.6835	
15 minute summer	S79	29.000	S80	57.6	2.095	0.671	0.7951	
15 minute summer	S80	29.001	S81	94.9	2.577	0.792	0.9689	
15 minute summer	S81	29.002	S24	92.9	2.420	0.882	0.1957	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	S82	11	40.404	0.154	69.1	0.1741	0.0000	OK
15 minute summer	S83	12	39.813	0.813	70.7	0.9191	0.0000	SURCHARGED
15 minute summer	S84	12	39.779	2.077	139.8	3.6696	0.0000	SURCHARGED
15 minute summer	S89	10	40.401	0.116	63.5	0.1309	0.0000	OK
15 minute summer	S90	11	38.770	0.470	63.2	0.5320	0.0000	SURCHARGED
15 minute summer	S91	11	38.737	0.456	96.3	0.5154	0.0000	SURCHARGED
15 minute summer	S92	11	38.517	0.316	141.1	0.3574	0.0000	SURCHARGED
15 minute summer	S93	11	38.223	0.223	140.2	0.2522	0.0000	OK
15 minute summer	S94	10	37.841	0.241	211.7	0.2728	0.0000	OK
15 minute summer	Junction 3	10	36.490	0.330	445.2	0.0000	0.0000	OK
15 minute summer	S95	10	38.804	0.079	9.3	0.0894	0.0000	OK
15 minute summer	S96	11	38.658	0.058	9.2	0.0659	0.0000	OK
15 minute summer	Junction 4	11	38.650	0.402	104.6	0.0000	0.0000	SURCHARGED
15 minute summer	S97	10	36.697	0.250	236.4	0.4409	0.0000	OK
15 minute summer	Dummy 1	11	32.708	0.142	91.8	0.0000	0.0000	OK
15 minute summer	R1	10	41.414	0.014	5.6	0.0000	0.0000	OK
15 minute summer	R2	10	41.219	0.019	7.5	0.0000	0.0000	OK
15 minute summer	R3	10	41.136	0.036	22.4	0.0000	0.0000	OK
15 minute summer	R4	10	39.950	0.050	35.3	0.0000	0.0000	OK
15 minute summer	R5	10	39.469	0.069	55.5	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	S82	35.000	S83	70.7	2.493	0.741	1.2092	
15 minute summer	S83	35.001	S84	63.1	3.327	0.174	0.5646	
15 minute summer	S84	35.002	S27	263.9	1.126	0.142	12.7917	
15 minute summer	S89	38.000	S90	63.2	2.140	0.529	1.1018	
15 minute summer	S90	38.001	S91	61.3	0.871	0.857	0.3198	
15 minute summer	S91	38.002	Junction 4	95.4	1.355	1.361	0.5788	
15 minute summer	S92	38.004	S93	140.2	2.208	0.917	0.6751	
15 minute summer	S93	38.005	S94	140.3	2.441	0.708	0.7400	
15 minute summer	S94	38.006	Junction 3	210.3	3.596	0.919	1.5848	
15 minute summer	Junction 3	38.007	S31	443.2	2.756	0.557	8.0991	
15 minute summer	S95	39.000	S96	9.2	1.221	0.475	0.0807	
15 minute summer	S96	39.001	Junction 4	9.2	1.210	0.280	0.0717	
15 minute summer	Junction 4	38.003	S92	104.4	1.483	1.485	0.8195	
15 minute summer	S97	40.000	Junction 3	235.8	1.756	0.296	2.8946	
15 minute summer	R1	41.000	R2	5.6	0.679	0.017	0.0347	
15 minute summer	R2	41.001	R3	7.5	0.540	0.028	0.0462	
15 minute summer	R3	41.002	R4	22.2	1.033	0.078	0.7600	
15 minute summer	R4	41.003	R5	34.9	1.181	0.129	0.4774	
15 minute summer	R5	41.004	R6	54.9	1.369	0.211	1.5523	

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 99.89%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	R6	11	38.392	0.092	85.7	0.0000	0.0000	OK
15 minute summer	R7	11	37.519	0.119	111.5	0.0000	0.0000	OK
15 minute summer	R8	11	36.418	0.118	117.5	0.0000	0.0000	OK
15 minute summer	R9	11	36.189	0.159	133.3	0.0000	0.0000	OK
15 minute summer	R10	11	36.010	0.200	137.2	0.0000	0.0804	FLOOD
15 minute summer	R11	11	35.905	0.145	146.7	0.0000	0.0000	OK
15 minute summer	R12	10	35.590	0.200	175.1	0.0000	1.4939	FLOOD
15 minute summer	R13	11	35.518	0.158	165.6	0.0000	0.0000	OK
15 minute summer	R14	11	35.117	0.097	167.3	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	R6	41.005	R7	84.6	1.602	0.329	1.7070	
15 minute summer	R7	41.006	R8	111.3	1.879	0.482	2.9054	
15 minute summer	R8	41.007	R9	118.1	1.705	0.472	0.7101	
15 minute summer	R9	41.008	R10	133.6	1.487	0.701	1.2939	
15 minute summer	R10	41.009	R11	134.2	1.567	1.002	0.5709	
15 minute summer	R11	41.010	R12	148.4	1.719	0.640	1.4104	
15 minute summer	R12	41.011	R13	165.6	1.852	1.231	0.3521	
15 minute summer	R13	41.012	R14	167.3	2.630	0.706	0.9132	
15 minute summer	R14	Weir	HW2	167.4				76.9

Appendix C Proposed site outline element

Parameter Plan

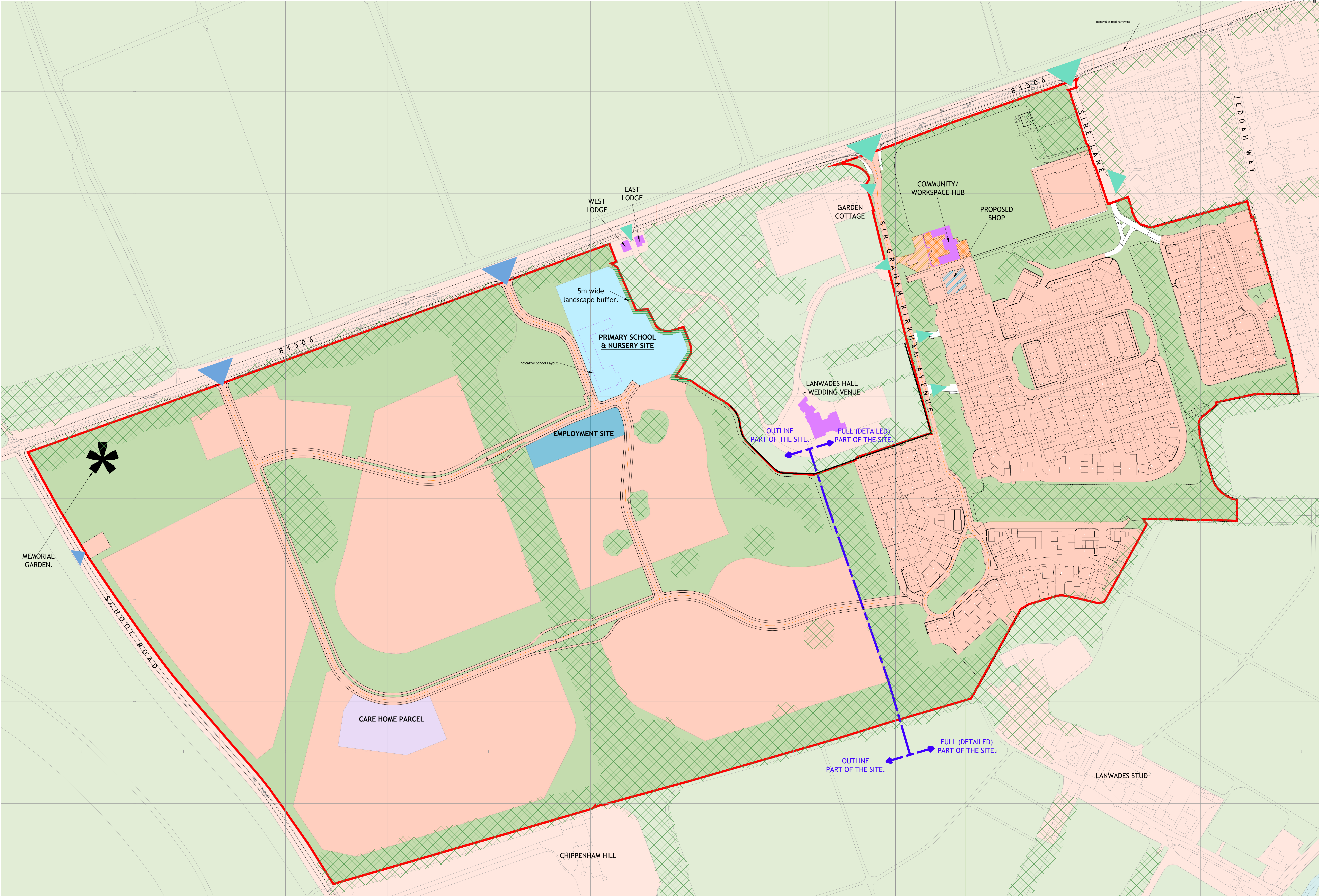
Surface water management strategy

Maintenance plan

Typical sections

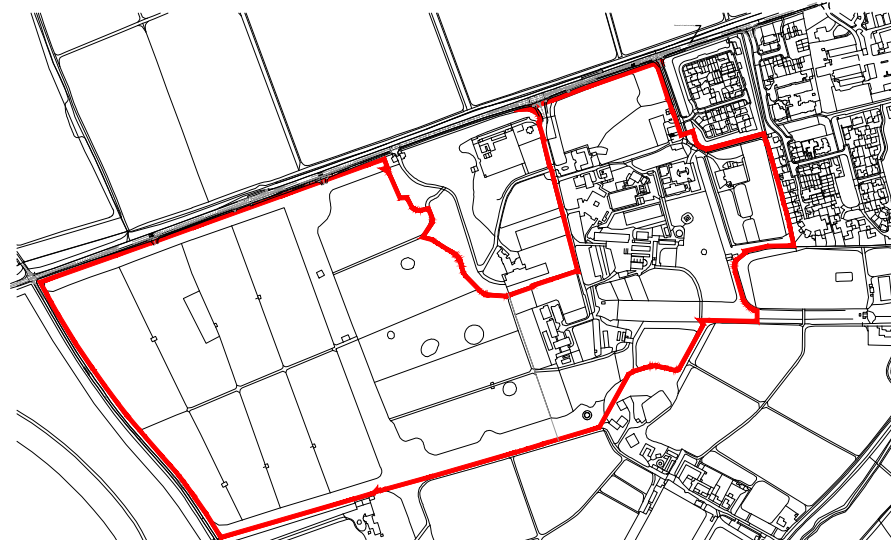
Surface water calculations

B1506 Drainage improvement options

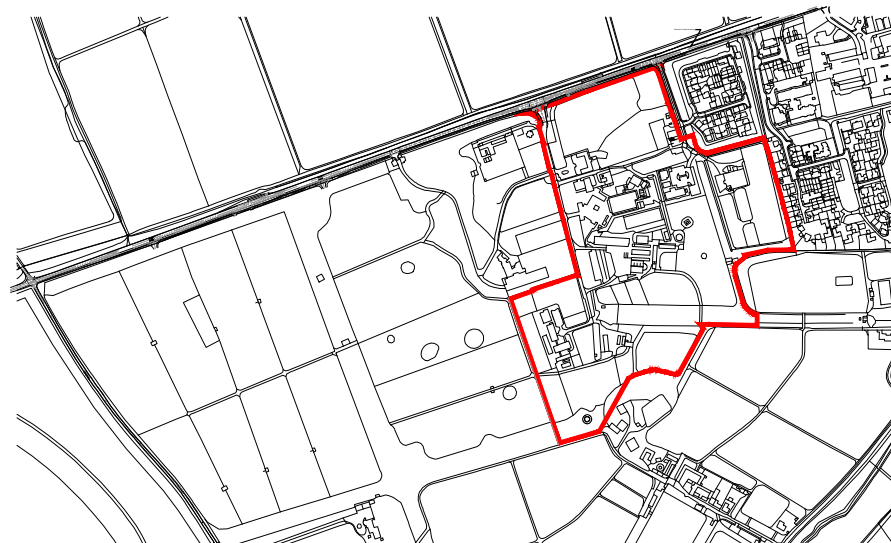


- NOTES**
- Contractors must check all dimensions on site. Only figured dimensions are to be worked from. Discrepancies must be reported to the Architect or Engineer before proceeding. © This drawing is copyright.
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 - Direct scaling off the drawing is permissible for planning purposes only.

- Legend:**
- Red Line Application Boundary.
 - Residential Development Parcels.
 - Care Home Parcel.
 - School Site (rFE KS1 & 2 with Reception for a total of 210 pupils).
 - Listed Buildings.
 - Community Hub Site.
 - Community Hub Parking.
 - Employment Area.
 - Public Open Space.
 - Existing Woodland.
 - New Access.
 - Existing Access.



Extent of Hybrid Application.



Extent of Detailed Extent of Hybrid Application.

H	Client comments incorporated.	JAL	-	07.05.25
G	Drawing updated to reflect alterations to the indicative road layout which minimises impact on existing trees.	AT	JAL	01.05.25
F	Updated to reflect new road layout.	JPG	JAL	01.04.25
E	Proposed vehicular access onto School Lane omitted.	JAL	-	26.02.25
D	Client meeting (06.02.25) comments incorporated.	JAL	-	10.02.25
C	Client comments dated 29.01.25 incorporated.	JAL	-	03.02.25
B	Client comments from meeting 27.01.25 incorporated.	JAL	-	28.01.25
A	Client comments dated 23.01.25 incorporated.	JAL	-	23.01.25

REV	DESCRIPTION	DRN	CHD	DATE
☒ PRELIMINARY	☐ INFORMATION	☐ TENDER		
☐ CONSTRUCTION	☐ AS BUILT			

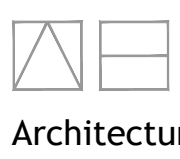
SCALE 1:1250 @ A0 DATE Jan. 2025

DRAWN JAL CHK -

DRAWING NO. 19400/1009 REV H

TITLE
Redevelopment of Former Animal Testing Research Facility, Kentford.

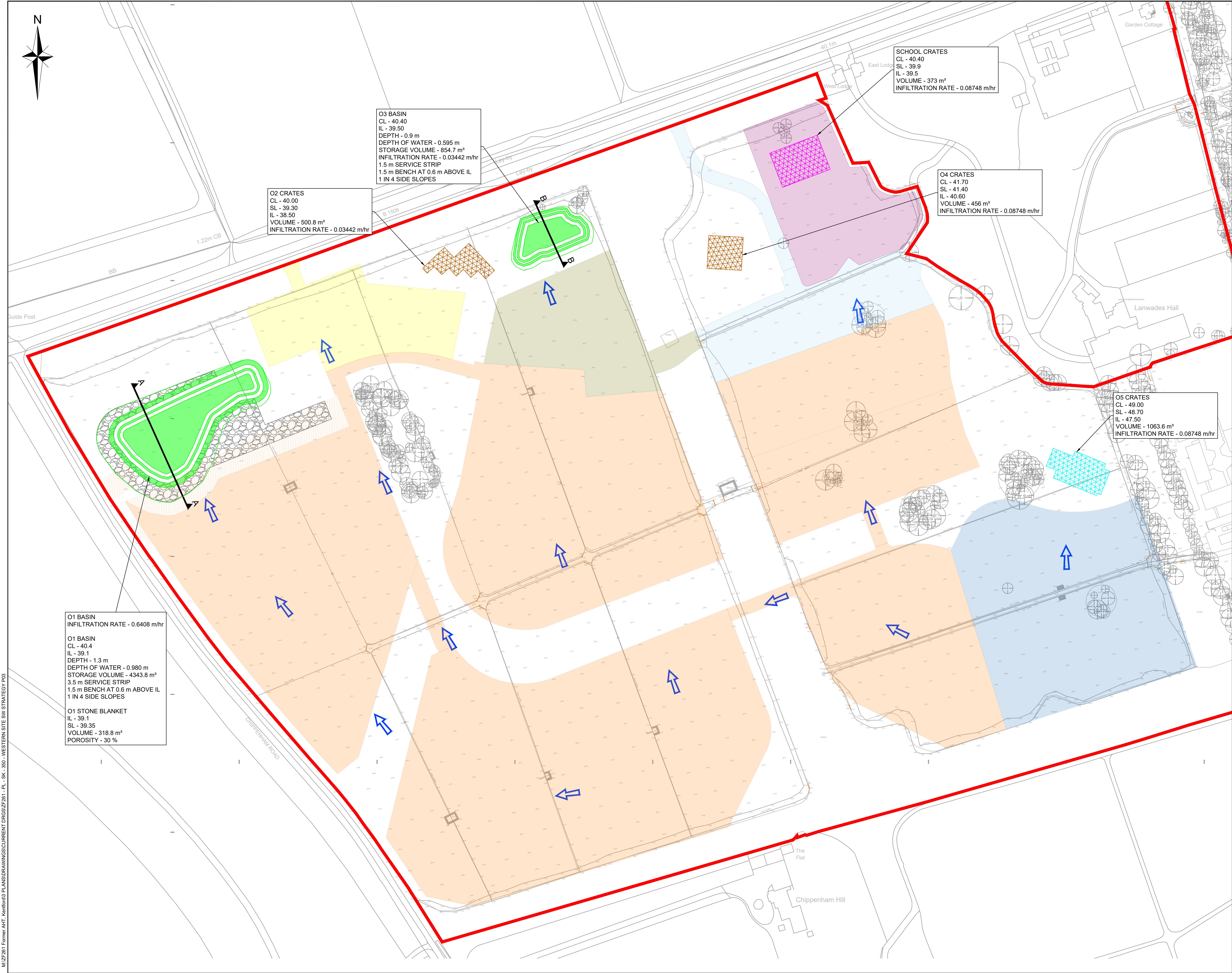
DETAILS
Parameter Plan - Land Use Plan.

 **Woods Hardwick**
Architecture | Engineering | Planning | Surveying

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Birmingham B24 9FE
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woodshardwick.com

PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS DRAWING



KEY

CATCHMENT O1 - 13.69 ha
@ 65.5% - 8.97 ha

CATCHMENT O2 - 0.79 ha
@ 65% - 0.52 ha

CATCHMENT O3 - 0.87 ha
@ 65% - 0.56 ha

CATCHMENT O4 - 0.90 ha
@ 70% - 0.64 ha

CATCHMENT O5 - 2.05 ha
@ 65% - 1.33 ha

CATCHMENT - SCHOOL - 0.91 ha
@ 50% - 0.46 ha

ATTENUATION CRATES - ONE STACK
(AQUACELL CORE R OR SIMILAR
APPROVED PRODUCT)

ATTENUATION CRATES - TWO STACKS
(AQUACELL CORE R OR SIMILAR
APPROVED PRODUCT)

ATTENUATION CRATES - THREE
STACKS
(AQUACELL CORE R OR SIMILAR
APPROVED PRODUCT)

STONE BLANKET

EXCEEDANCE OVERLAND FLOW
ROUTE

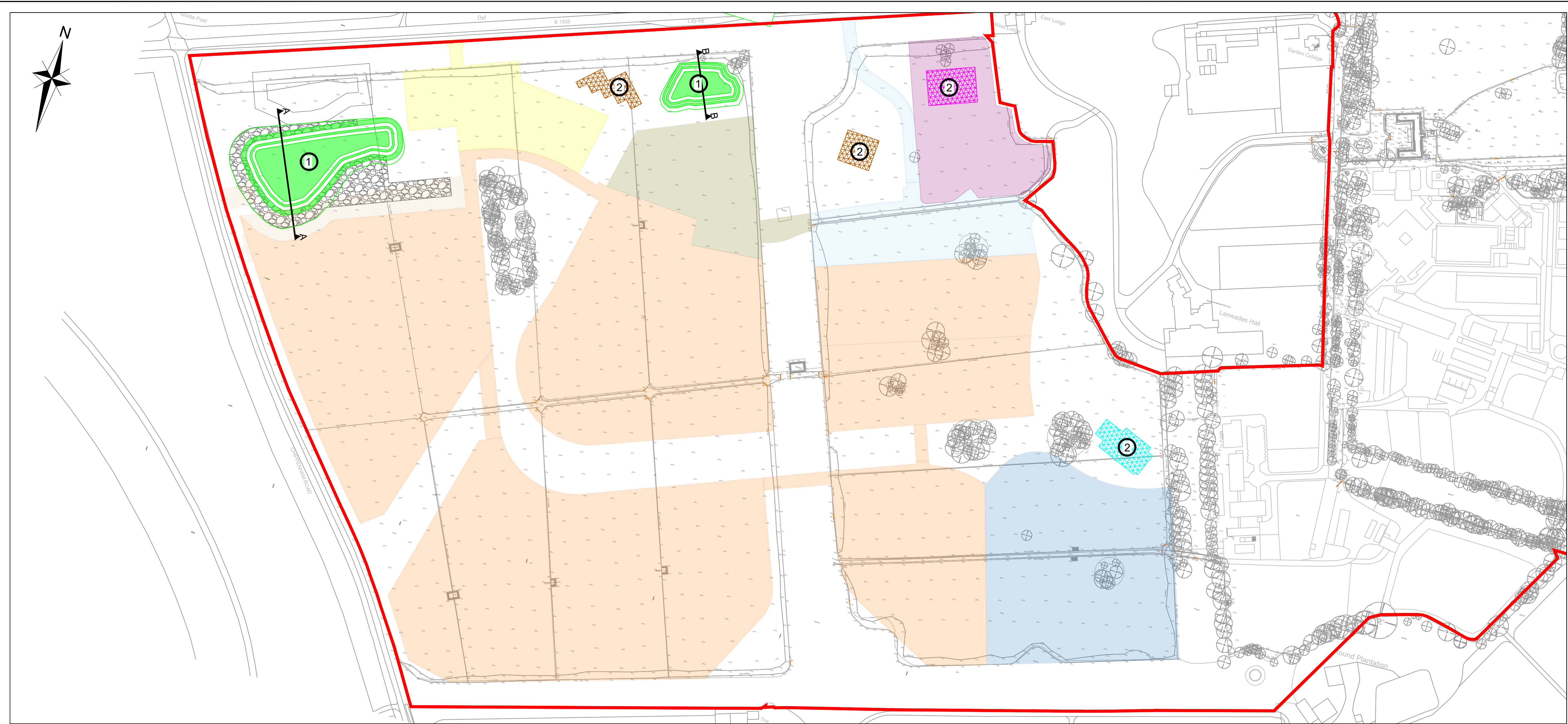
NOTES

1. INFILTRATION RATES FROM SURVEY VIA
GEOSPHERE INTERNATIONAL LTD REF.
9153.SK.LTR01.JK.RS.24-01-25.V1

2. SEE DRAWING ZF261 - PL - SK - 352 FOR SECTIONS
A-A AND B-B

P03	AMENDED TO UPDATED LAYOUT	-	JB	-	05.2025			
P02	LANDSCAPING UPDATED	-	JB	-	02.2025			
P01	LAYOUT UPDATED	-	JB	-	02.2025			
REV	DESCRIPTION	DE	DR	CH	DATE			
DESIGNED BY	DRAWN BY	CHECKED BY						
-	JB	-						
SCALE @ A1 SIZE			DATE					
D.N.S			18.02.25					
PROJECT TITLE								
LANWADES WOODLAND PARK								
DRAWING TITLE								
SURFACE WATER STRATEGY - OUTLINE								
CLIENT								
LOCHAILORT KENTFORD LTD								
cannon CONSULTING ENGINEERS Cambridge House, Lanwades Business Park, Kentford, Newmarket, CB8 7PN Tel: 01638 555107 www.cannonce.co.uk info@cannonce.co.uk								
DRAWING NUMBER					REV.			
ZF261 - PL - SK - 350					P03			

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1	INFILTRATION BASIN MAINTENANCE		
	MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE		REMOVAL OF LITTER AND DEBRIS	MONTHLY
		CUT GRASS - FOR LANDSCAPED AREAS AND ACCESS ROUTES	MONTHLY (DURING GROWING SEASON) OR AS REQUIRED
		CUT GRASS - MEADOW GRASS IN AND AROUND BASIN	MONTHLY THEN AS REQUIRED
		MANAGE OTHER VEGETATION AND REMOVE NUISANCE PLANTS	MONTHLY THEN AS REQUIRED
OCCASIONAL MAINTENANCE		RESEED	ANUALLY OR AS REQUIRED
		PRUNE ADJACENT TREES	AS REQUIRED
		REMOVE SEDIMENT	AS REQUIRED
REMEDIAL ACTIONS		REPAIR EROSION OR OTHER DAMAGE	AS REQUIRED
		REPAIR INLETS AND OVERFLOWS	AS REQUIRED
		RE LEVEL UNEVEN SURFACES AND REINSTATE DESIGN LEVELS	AS REQUIRED
		REHABILITATE INFILTRATION SURFACE USING SCARIFYING AND SPIKING TECHNIQUES IF PERFORMANCE DETERIORATES	AS REQUIRED
MONITORING		INSPECT INLETS FOR BLOCKAGES AND CLEAR IS REQUIRES	MONTHLY
		INSPECT BANKSIDES, STRUCTURES, PIPEWORK ETC FOR EVIDENCE OF PHYSICAL DAMAGE	MONTHLY
		INSPECT INLETS AND PRE TREATMENT SYSTEMS FOR SILT ACCUMULATION; ESTABLISH APPROPRIATE SILT REMOVAL FREQUENCIES	HALF YEARLY
		INSPECT INFILTRATION SURFACES FOR COMPACTION AND PONDING	MONTHLY

BASED ON ADVICE IN CIRIA C753

2	CELLULAR CRATE MAINTENANCE		
	MAINTENANCE SCHEDULE	REQUIRED ACTION	FREQUENCY
REGULAR MAINTENANCE		INSPECT TO IDENTIFY ANY AREA OF UNDERPERFORMANCE AND CORRECT (REPAIR, IMPROVE ETC)	MONTHLY FOR 3 MONTHS THEN ANNUALLY
		REMOVE DEBRIS FROM DRAINED AREA TO PREVENT ENTRY TO THE SYSTEM	MONTHLY
		CHECK ANY INFILTRATION SURFACES WHICH ALLOW WATER TO PERCOLATE INTO TANKS FOR BLOCKAGES, CORRECT AS NECESSARY	ANNUALLY
		REMOVE SEDIMENT FROM TRAPS	ANNUALLY/AS REQUIRED
REMEDIAL		REPAIR/REPLACE INLETS,OVERFLOWS, AND VENTS	AS REQUIRED.
MONITORING		CHECK THAT INLETS, VENTS, AND OVERFLOWS ARE IN GOOD CONDITION AND WORKING AS INTENDED	ANNUALLY
		INSPECT TANK INTERNALLY, REMOVE ANY SEDIMENT IF PRESENT AND IF REQUIRED	EVERY 5 YEARS (OR MORE FREQUENTLY IF NECESSARY)

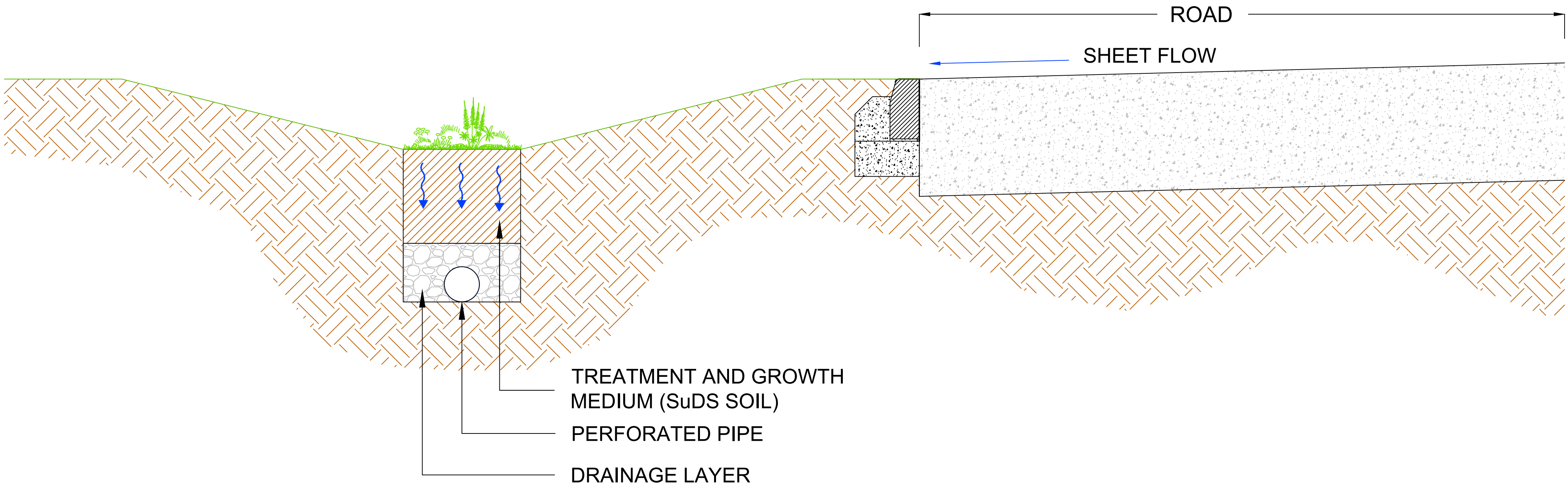
BASED ON ADVICE IN CIRIA C753

KEY

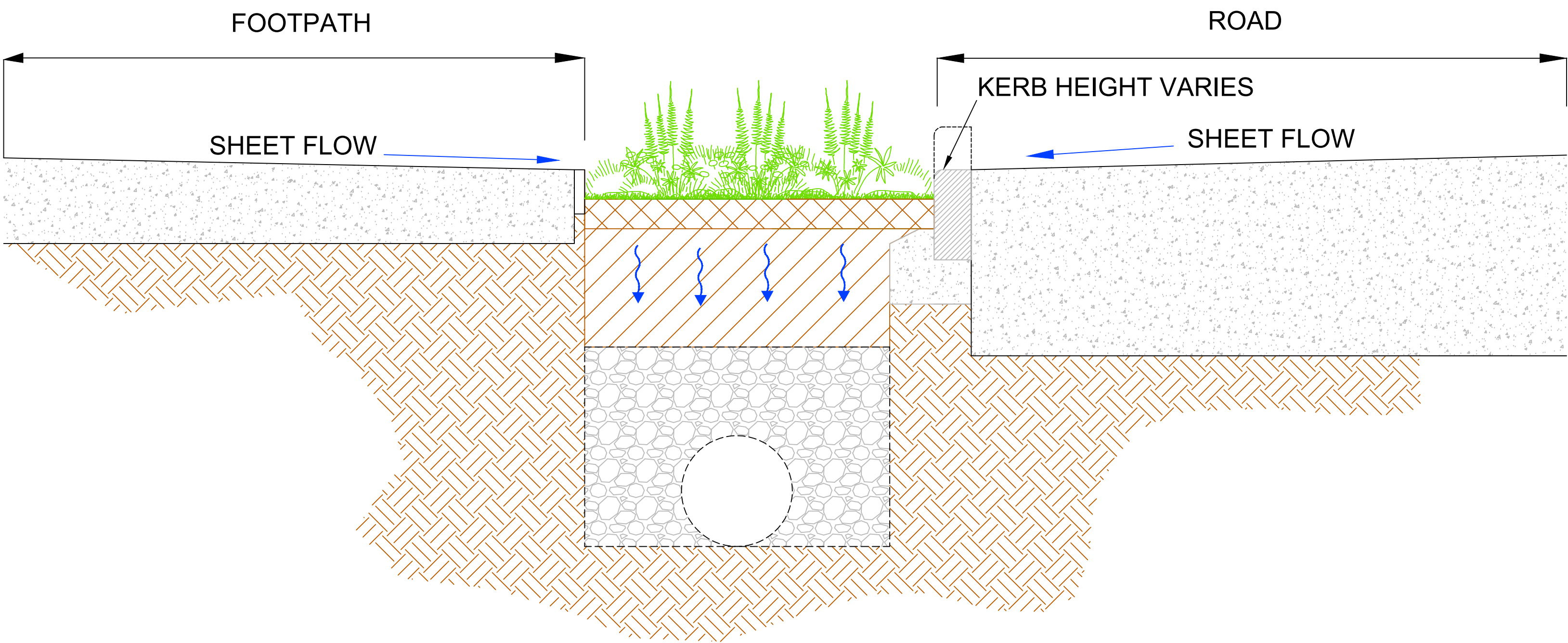
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DESIGNED BY		DRAWN BY		CHECKED BY		
-		JB		-		
SCALE @ A1 SIZE			DATE			
D.N.S			13.02.25			
PROJECT TITLE						
LANWADES WOODLAND PARK						
DRAWING TITLE						
MAINTENANCE PLAN - OUTLINE						
CLIENT						
LOCHAILORT KENTFORD LTD						
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DRAWING NUMBER						REV.
ZF261 - PL - SK - 351						P01

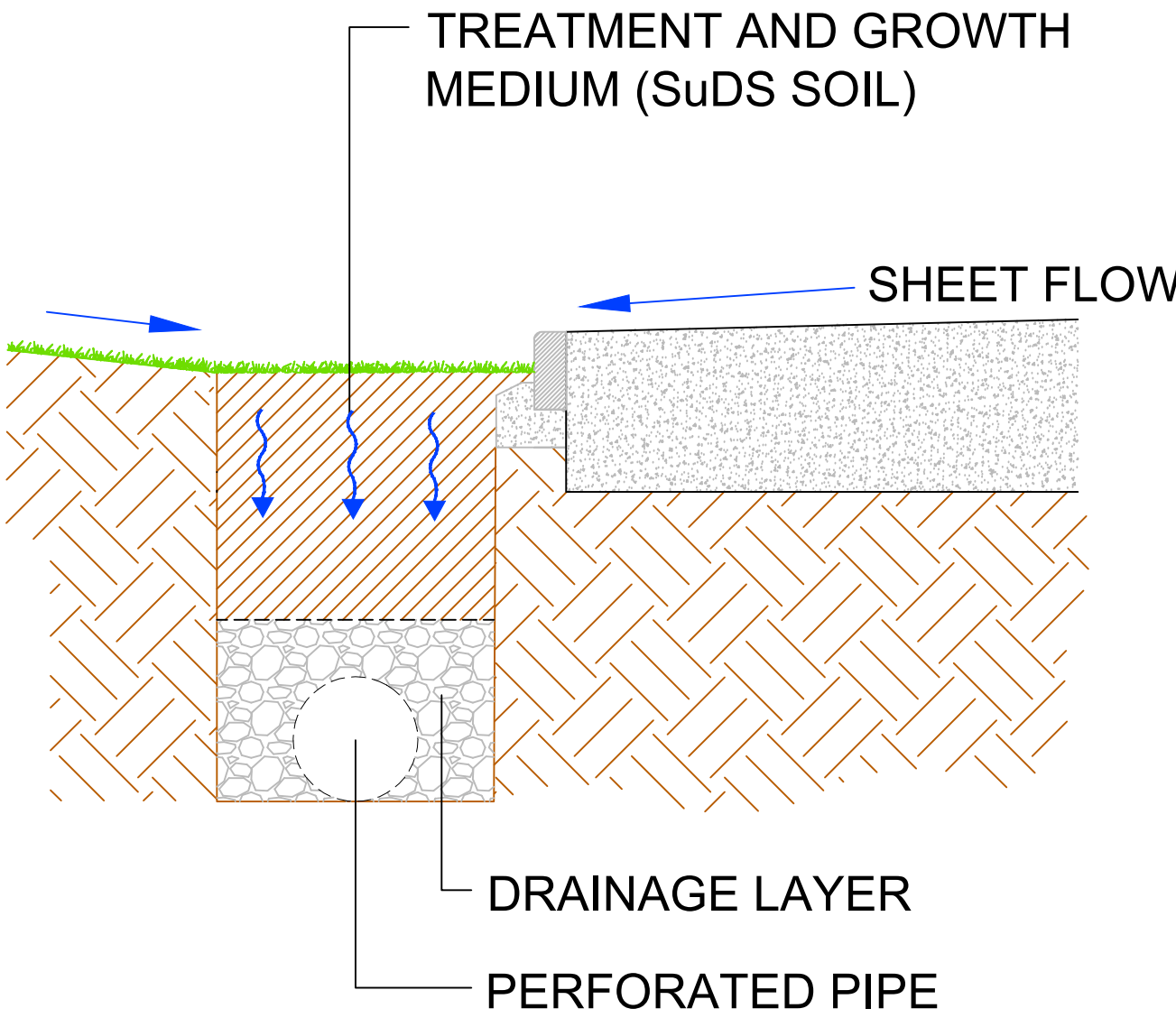
TYPICAL SECTION THROUGH
UNDERDRAINED SWALE



TYPICAL SECTION THROUGH
SuDS PLANTER



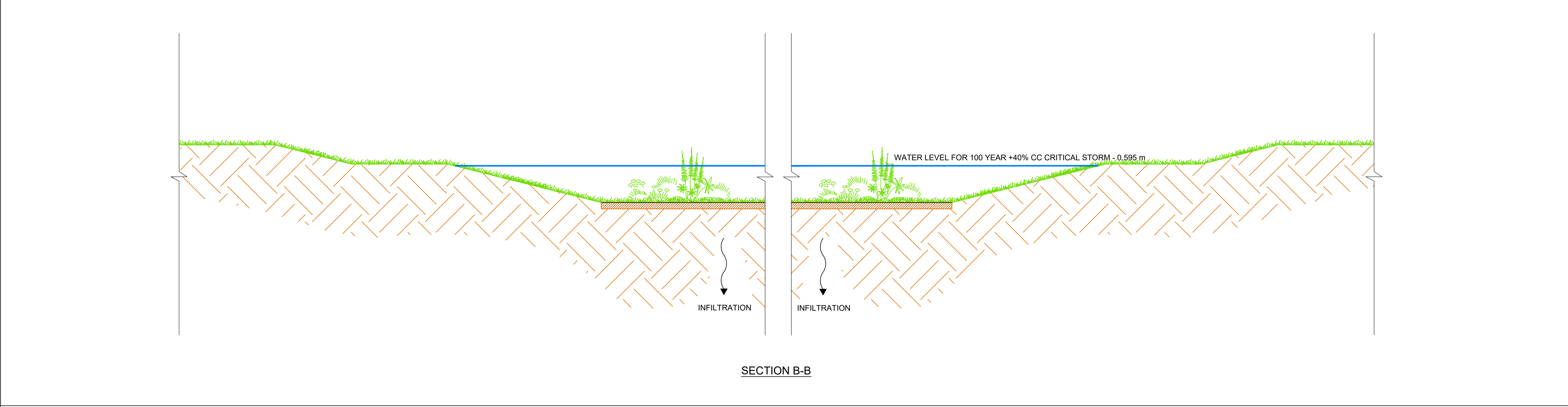
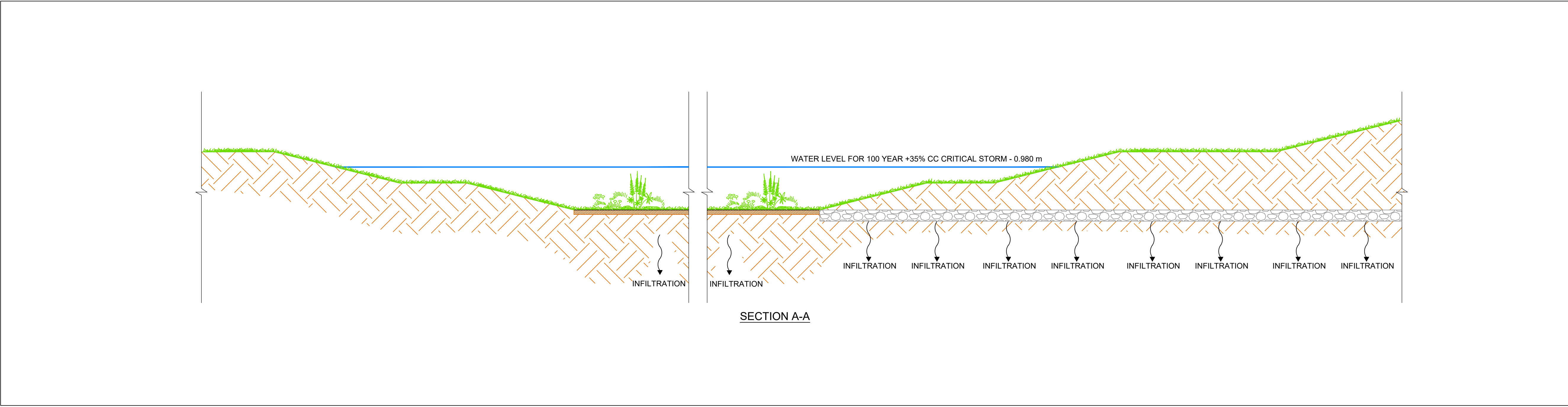
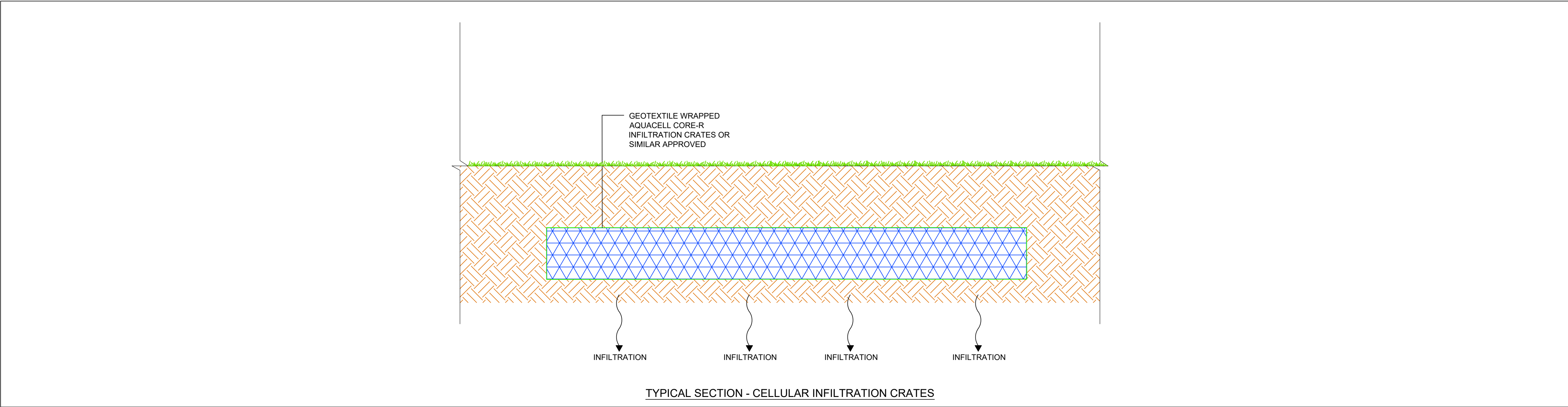
TYPICAL SECTION THROUGH
VEGETATED FILTER DRAIN



KEY

NOTES

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DESIGNED BY		DRAWN BY		CHECKED BY		
-		JTH		-		
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D.N.S			28.02.25			
PROJECT TITLE						
LANWADES WOODLAND PARK						
DRAWING TITLE						
TYPICAL SECTIONS - OUTLINE						
CLIENT						
LOCHAILORT KENTFORD LTD						
cannon CONSULTING ENGINEERS Cambridge House, Lanwades Business Park, Kentford, Newmarket, CB8 7PN Tel: 01638 555107 www.cannonce.co.uk info@cannonce.co.uk						
DRAWING NUMBER						REV.
ZF261 - PL - SK - 354						-



KEY

NOTES

1. SEE DRAWING ZF261 - PL - SK - 350 FOR SECTIONS A-A AND B-B LOCATIONS

P01	WATER LEVELS UPDATED	-	JB	-	05.2025
REV	DESCRIPTION	DE	DR	CH	DATE
DESIGNED BY	DRAWN BY	CHECKED BY			
-	JB	-			
SCALE @ A1 SIZE		DATE			
D.N.S		18.02.25			
PROJECT TITLE					
LANWADES WOODLAND PARK					
DRAWING TITLE					
SECTIONS THROUGH INFILTRATION BASIN / CRATES - OUTLINE					
CLIENT					
LOCHAILORT KENTFORD LTD					
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DRAWING NUMBER					REV.
ZF261 - PL - SK - 352					P01

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	500.0		

Nodes

Name	Area (ha)	Cover Level (m)	Depth (m)
O1	8.970	40.400	1.300
O2	0.520	40.000	1.500
O3	0.560	40.400	0.900
O4	0.640	41.700	1.100
O5	1.330	49.000	1.500
SCHOOL	0.460	40.400	0.900

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	10080	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0
30	0	0	0
30	35	5	0
100	0	0	0
100	40	5	0

Node O1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.64080	Safety Factor	1.5	Invert Level (m)	39.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	89

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	2431.0	2431.0	0.600	3054.0	2431.0	0.601	3461.0	2431.0	1.300	4259.0	2431.0

Node O1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.64080	Safety Factor	1.5	Invert Level (m)	39.100
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	0

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	4251.0	4251.0	0.250	4251.0	4251.0	0.251	0.0	4251.0

Node O2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.03442	Safety Factor	1.5	Invert Level (m)	38.500
Side Inf Coefficient (m/hr)	0.03442	Porosity	0.95	Time to half empty (mins)	1098

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	659.0	659.0	0.800	659.0	777.0	0.801	0.0	777.0

Node O3 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.03442	Safety Factor	1.5	Invert Level (m)	39.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	956

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	663.0	663.0	0.600	953.0	663.0	0.601	1154.0	663.0	0.900	1326.0	663.0

Node O4 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.08748	Safety Factor	1.5	Invert Level (m)	40.600
Side Inf Coefficient (m/hr)	0.08748	Porosity	0.95	Time to half empty (mins)	368

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	600.0	600.0	0.800	600.0	678.4	0.801	0.0	678.4

Node O5 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.08748	Safety Factor	1.5	Invert Level (m)	47.500
Side Inf Coefficient (m/hr)	0.08748	Porosity	0.95	Time to half empty (mins)	541

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	933.0	933.0	1.200	933.0	1097.0	1.201	0.0	1097.0

Node SCHOOL Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.08748	Safety Factor	1.5	Invert Level (m)	39.500
Side Inf Coefficient (m/hr)	0.08748	Porosity	0.95	Time to half empty (mins)	236

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	980.5	980.5	0.400	980.5	1031.0	0.401	0.0	1031.0

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	O1	13	39.177	0.077	1552.6	287.8856	0.0000	OK
360 minute summer	O2	256	38.624	0.124	23.5	77.5701	0.0000	OK
360 minute summer	O3	256	39.624	0.124	25.4	86.1262	0.0000	OK
180 minute summer	O4	124	40.723	0.123	43.0	70.1144	0.0000	OK
240 minute summer	O5	168	47.682	0.182	77.8	161.6737	0.0000	OK
180 minute summer	SCHOOL	112	39.544	0.044	30.9	41.1554	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
15 minute summer	O1	Infiltration	288.5
15 minute summer	O1	Infiltration	504.5
360 minute summer	O2	Infiltration	4.3
360 minute summer	O3	Infiltration	4.2
180 minute summer	O4	Infiltration	9.8
240 minute summer	O5	Infiltration	15.4
180 minute summer	SCHOOL	Infiltration	14.0

Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute summer	O1	25	39.508	0.408	3907.2	1396.9650	0.0000	OK
240 minute winter	O2	236	38.834	0.334	45.4	209.3639	0.0000	OK
360 minute winter	O3	352	39.813	0.313	35.6	231.0847	0.0000	OK
180 minute winter	O4	172	40.970	0.370	68.9	211.0964	0.0000	OK
180 minute winter	O5	176	48.037	0.537	143.2	475.6899	0.0000	OK
120 minute summer	SCHOOL	90	39.630	0.130	96.6	121.3186	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
30 minute summer	O1	Infiltration	288.5
30 minute summer	O1	Infiltration	504.5
240 minute winter	O2	Infiltration	4.5
360 minute winter	O3	Infiltration	4.2
180 minute winter	O4	Infiltration	10.3
180 minute winter	O5	Infiltration	16.2
120 minute summer	SCHOOL	Infiltration	16.1

Results for 30 year +35% CC +5% A Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	O1	29	39.789	0.689	4473.5	2276.6450	0.0000	OK
360 minute winter	O2	352	39.009	0.509	46.9	318.9534	0.0000	OK
360 minute winter	O3	352	39.957	0.457	50.5	353.5313	0.0000	OK
180 minute winter	O4	176	41.176	0.576	97.7	328.4794	0.0000	OK
240 minute winter	O5	236	48.331	0.831	164.6	736.9801	0.0000	OK
120 minute summer	SCHOOL	102	39.702	0.202	136.9	187.9450	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
30 minute winter	O1	Infiltration	288.5
30 minute winter	O1	Infiltration	504.5
360 minute winter	O2	Infiltration	4.7
360 minute winter	O3	Infiltration	4.2
180 minute winter	O4	Infiltration	10.6
240 minute winter	O5	Infiltration	16.9
120 minute summer	SCHOOL	Infiltration	16.2

Results for 100 year Critical Storm Duration. Lowest mass balance: 100.00%

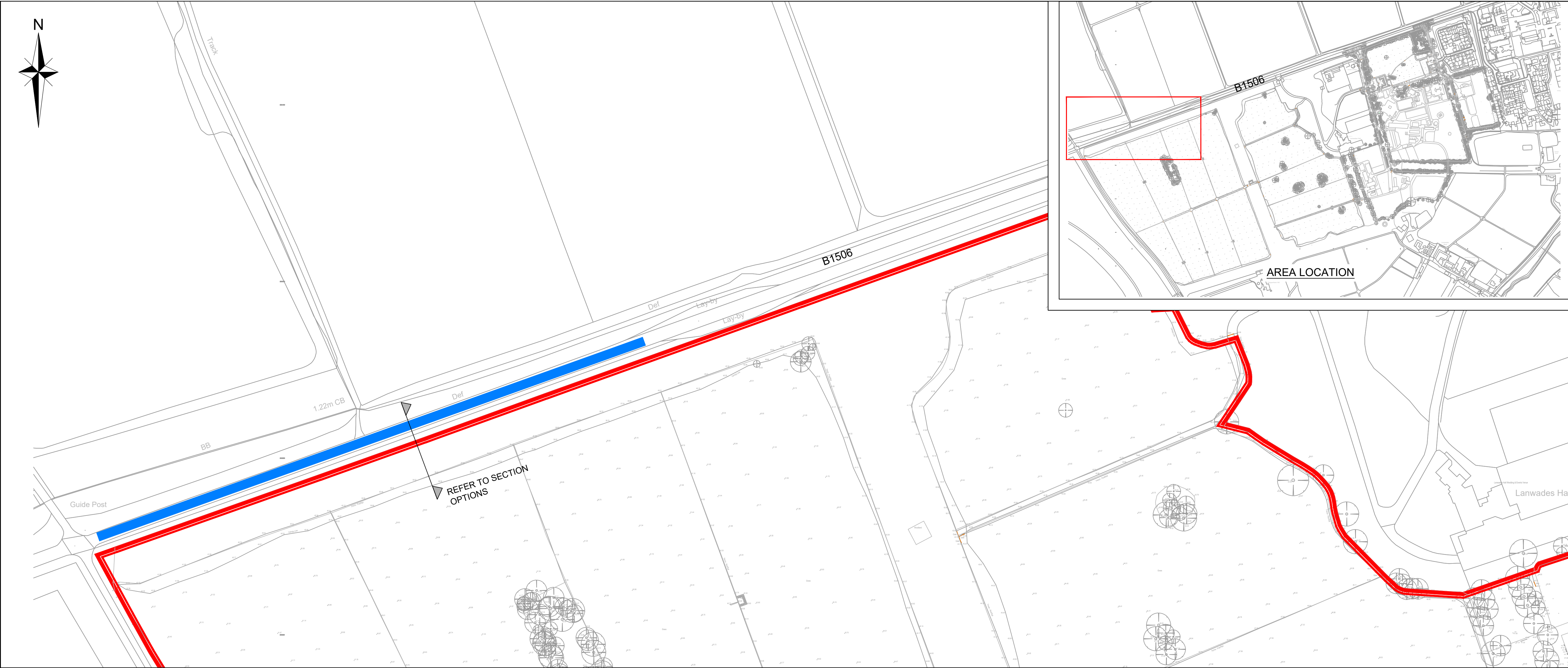
Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	O1	28	39.704	0.604	4053.6	1979.8550	0.0000	OK
360 minute winter	O2	352	38.935	0.435	41.1	272.2230	0.0000	OK
360 minute winter	O3	352	39.898	0.398	44.3	302.2599	0.0000	OK
180 minute winter	O4	176	41.091	0.491	85.9	280.1240	0.0000	OK
240 minute winter	O5	236	48.206	0.706	144.4	626.0132	0.0000	OK
120 minute summer	SCHOOL	96	39.674	0.174	121.5	161.6734	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
30 minute winter	O1	Infiltration	288.5
30 minute winter	O1	Infiltration	504.5
360 minute winter	O2	Infiltration	4.6
360 minute winter	O3	Infiltration	4.2
180 minute winter	O4	Infiltration	10.5
240 minute winter	O5	Infiltration	16.6
120 minute summer	SCHOOL	Infiltration	16.2

Results for 100 year +40% CC +5% A Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	O1	31	40.080	0.980	5958.8	3362.3140	0.0000	OK
480 minute winter	O2	464	39.188	0.688	47.6	430.7262	0.0000	OK
480 minute winter	O3	472	40.095	0.595	51.3	480.4001	0.0000	OK
240 minute winter	O4	236	41.393	0.793	102.1	452.1355	0.0000	OK
360 minute winter	O5	352	48.629	1.129	154.6	1000.3530	0.0000	OK
120 minute winter	SCHOOL	116	39.784	0.284	123.0	264.1142	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	Outflow (l/s)
30 minute winter	O1	Infiltration	288.5
30 minute winter	O1	Infiltration	504.5
480 minute winter	O2	Infiltration	4.8
480 minute winter	O3	Infiltration	4.2
240 minute winter	O4	Infiltration	11.0
360 minute winter	O5	Infiltration	17.6
120 minute winter	SCHOOL	Infiltration	16.4



KEY

SITE BOUNDARY

LENGTH OF PROPOSED DRAINAGE WORKS

NOTES

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B1506

EXISTING FOOTWAY APPROX 2.5m WIDE

VERGE

FOOTPATH (TOP OF KERB)

CHANNEL LINE

EXISTING SECTION THROUGH B1506

B1506

FOOTWAY

SWALE

FLOW FROM ROAD

FLOW TO SWALE

1:3

DROPPED KERB

FOOTPATH (TOP OF KERB)

CHANNEL LINE

OPTION 2 SECTION THROUGH 'HIT AND MISS' KERBING AND REPROFILED FOOTPATH

B1506

EXISTING FOOTWAY

SWALE

FLOW FROM ROAD

FLOW TO SWALE

1:3

ACO CHANNEL DRAIN

FOOTPATH (TOP OF KERB)

CHANNEL LINE

OPTION 1 SECTION THROUGH CHANNEL DRAIN TO SWALE

B1506

VERGE

SWALE

FLOW FROM ROAD

FLOW TO SWALE

1:3

KERB FLUSH WITH ROAD CHANNEL

OPTION 3 SECTION THROUGH REMOVAL OF EXISTING FOOTPATH

REV	DESCRIPTION	DE	DR	CH	DATE
DESIGNED BY	DRAWN BY	CHECKED BY			
-	DWL	-			
SCALE @ A1 SIZE		DATE			
D.N.S		APRIL 2025			
PROJECT TITLE					
LANWADES WOODLAND PARK					
DRAWING TITLE					
B1506 DRAINAGE IMPROVEMENT OPTIONS					
CLIENT					
LOCHAILORT KENTFORD LTD					
cannon CONSULTING ENGINEERS Cambridge House, Lanwades Business Park, Kentford, Newmarket, CB8 7PN Tel: 01638 555107 www.cannonce.co.uk info@cannonce.co.uk					
DRAWING NUMBER					REV.
ZF261 - PL - SK - 360					-