

**LEGEND**

- EXISTING WATERMAIN ---
- PROPOSED WATERMAIN ---
- FIRE HYDRANT H
- SCOUR VALVE ScV
- WATERMETER WM
- PROPOSED FILTER DRAIN ---
- PROPOSED FILTER DRAIN INSPECTION CHAMBER ○ SIC
- WATER CONNECTION LOCATIONS W1
- EXISTING HARD PAVEMENT AND BUILDINGS
- PROPOSED DECORATIVE CONCRETE FINISH
- PROPOSED SELECTED RESIN BONDED SURFACE
- PROPOSED LAWN

**NOTES:**

1. WORKS IN CLOSE PROXIMITY TO TREES TO BE INSTALLED IN ACCORDANCE WITH ARBORIST REQUIREMENTS.
2. WORKS WITHIN NOMINATED ARCHAEOLOGICAL AREAS TO BE IN ACCORDANCE WITH ARCHAEOLOGIST'S REQUIREMENTS.
3. FINISHES TO BE SUITABLY RESILIENT SUCH AS TO NOT BE AFFECTED BY FLOOD WATERS. DESIGN REQUIREMENTS TO BE PROVIDED BY TIPPERARY CO CO. CONTRACTOR TO AVOID ANY CONSTRUCTION DEBRIS DISCHARGE INTO THE RIVER ENVIRONMENT.
5. WORKS ARE TO BE IN ACCORDANCE WITH 'BEST PRACTICE GUIDELINES ON THE PREPARATION OF WASTE MANAGEMENT PLANS FOR CONSTRUCTION & DEMOLITION PROJECTS' - (EPA) AND ALL PLANNING CONDITIONS FROM TIPPERARY COUNTY COUNCIL A DETAILED CONSTRUCTION METHODOLOGY AND CONSTRUCTION MANAGEMENT PLAN IS TO BE AGREED BETWEEN THE CONTRACTOR AND TIPPERARY COUNTY COUNCIL PRIOR TO COMMENCEMENT OF WORKS. PARTICULAR ATTENTION SHOULD BE GIVEN TO THE INSTALLATION OF HEADWALLS DIRECTLY ADJACENT TO THE RIVER.
7. ALL WORKS ARE TO BE IN ACCORDANCE WITH THE AA SCREENING REPORT FOR THE SITE AS WELL AS ANY ASSOCIATED DOCUMENTATION. PARTICULAR ATTENTION SHOULD BE GIVEN TO THE FACT THAT THE WEST SIDE OF THE GARDENS AND THE ADJACENT RIVER IS AN SAC AND NATURA 2000 SITE.
8. THE HEADWALLS ARE PROPOSED TO BE PRECAST. ALTERNATIVE MATERIALS ARE TO BE AGREED BETWEEN THE CONTRACTOR AND TIPPERARY COUNTY COUNCIL AT CONSTRUCTION STAGE AS PART OF THE CONSTRUCTION MANAGEMENT PLAN. NEGLIGIBLE WATER DISCHARGE IS EXPECTED FROM THE PLAY AREA DUE TO THE EXPECTED LOW FLOW WATER SUPPLY. THE STORMWATER DRAINAGE DESIGN HAS AMPLE CAPACITY FOR THIS DISCHARGE.



PROPOSED FILTER DRAINS										
Name	US Node	DS Node	Length (m)	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	US Depth (m)	DS Depth (m)
1.007	SIC 10	HW 1_OUT	5.452	17.095	17.040	0.055	99.1	150	0.735	0.210
1.006	SIC 8	SIC 10	6.938	17.164	17.095	0.069	100.0	150	0.856	0.735
4.000	SIC 9	SIC 10	10.314	17.350	17.095	0.255	40.4	150	0.450	0.735
1.005	SIC 6	SIC 8	13.576	17.364	17.228	0.136	100.0	150	0.586	0.792
3.000	SIC 7	SIC 8	10.138	17.300	17.164	0.136	74.5	150	0.350	0.856
1.004	SIC 4A	SIC 6	6.443	17.416	17.364	0.052	123.9	150	0.534	0.586
2.000	SIC 5	SIC 6	4.083	17.500	17.432	0.068	80.0	150	0.500	0.518
1.003	SIC 4	SIC 4A	7.836	17.494	17.416	0.078	100.0	150	0.486	0.534
1.002	SIC 3	SIC 4	6.692	17.561	17.494	0.067	100.0	150	0.389	0.518
1.001	SIC 2	SIC 3	7.156	17.633	17.561	0.072	100.0	150	0.317	0.389
1.000	SIC 1	SIC 2	6.710	17.700	17.633	0.067	100.0	150	0.300	0.317
6.003	SIC 19	HW 2_OUT	6.128	16.727	16.666	0.061	100.5	150	0.973	0.184
6.002	SIC 15	SIC 19	12.837	16.918	16.790	0.128	100.0	150	0.832	0.910
8.002	SIC 18	SIC 19	7.807	16.950	16.727	0.223	35.0	150	0.600	0.973
8.001	SIC 16A	SIC 18	5.362	17.013	16.950	0.063	85.1	150	0.637	0.600
9.000	SIC 17	SIC 18	8.685	17.100	17.013	0.087	100.0	150	0.450	0.537
8.000	SIC 16	SIC 16A	7.789	17.300	17.013	0.287	27.1	150	0.600	0.637
6.001	SIC 12	SIC 15	16.329	17.196	17.033	0.163	100.0	150	0.344	0.717
7.001	SIC 14	SIC 15	9.799	17.016	16.918	0.098	100.0	150	0.684	0.832
7.000	SIC 13	SIC 14	3.700	17.200	17.016	0.184	20.1	150	0.500	0.684
6.000	SIC 11	SIC 12	8.129	17.300	17.196	0.104	78.2	150	0.350	0.344
5.002	SIC 22	HW 3_OUT	10.228	16.696	16.400	0.296	34.6	150	0.594	0.450
5.001	SIC 21	SIC 22	21.084	16.921	16.696	0.225	93.7	150	0.529	0.594
5.000	SIC 20	SIC 21	12.855	17.050	16.921	0.129	100.0	150	0.400	0.529

PROPOSED STORM INSPECTION CHAMBERS					
Name	Cover Level (m)	Diameter (mm)	Eastings (m)	Northings (m)	Depth (m)
SIC 1	18.150	450	620282.391	622155.490	0.450
SIC 2	18.100	450	620279.662	622149.360	0.467
SIC 3	18.100	450	620272.509	622149.122	0.539
SIC 4	18.130	450	620268.155	622144.040	0.636
SIC 5	18.150	450	620265.298	622128.212	0.650
SIC 6	18.100	450	620268.732	622130.421	0.736
SIC 7	17.800	450	620290.871	622124.327	0.500
SIC 8	18.170	450	620280.736	622124.080	1.006
SIC 9	17.950	450	620291.041	622117.203	0.600
SIC 10	17.980	450	620280.728	622117.142	0.885
SIC 11	17.400	450	620280.671	622111.690	0.360
SIC 12	17.800	450	620301.418	622157.953	0.500
SIC 13	17.690	450	620309.527	622158.513	0.494
SIC 14	17.850	450	620320.143	622147.740	0.650
SIC 15	17.850	450	620320.235	622144.041	0.834
SIC 16	17.900	450	620310.604	622142.229	0.982
SIC 17	18.050	450	620300.890	622139.220	0.750
SIC 18	17.700	450	620294.242	622124.787	0.600
SIC 19	17.700	450	620302.719	622126.678	0.750
SIC 20	17.850	450	620310.034	622129.405	1.123
HW 1_OUT	17.000	450	620314.305	622125.010	0.334
SIC 21	17.800	450	620252.658	622125.462	0.550
SIC 22	17.800	450	620240.125	622122.602	0.679
HW 2_OUT	17.440	450	620221.352	622132.200	0.744
HW 3_OUT	17.000	450	620212.064	622127.918	0.600
SIC 4A	18.100	450	620266.361	622136.412	0.684
SIC 16A	17.800	450	620300.283	622131.455	0.787

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COLOUR DRAWING

Rev	Date	By	Date	Rev	Date	By	Date
P01	2022/02/04	RD	2022/02/04	P07	2022/07/15	RD	2022/07/15
P02	2022/02/23	RD	2022/02/23				
P03	2022/03/03	RD	2022/03/03				
P04	2022/03/07	RD	2022/03/07				
P05	2022/03/09	RD	2022/03/09				
P06	2022/06/27	RD	2022/06/27				

Project: SUIR ISLAND GARDENS  
 Title: DRAINAGE, WATERMAIN & SUDS LAYOUT  
 Drawn: RD Date drawn: JAN 2022 Technician Check: MB Engineer Check: Approved:  
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