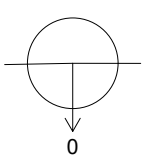
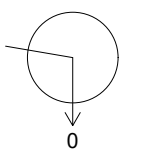
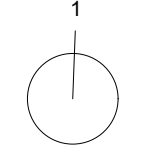
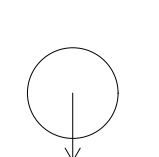
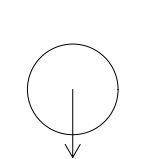
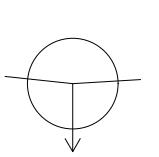
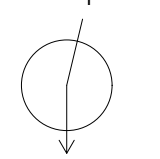
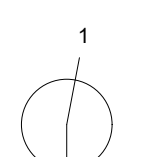
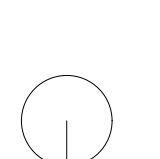
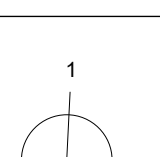
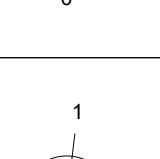
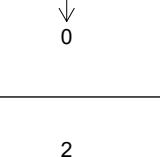
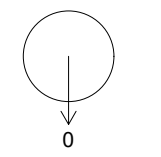
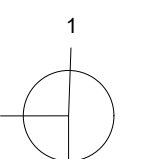
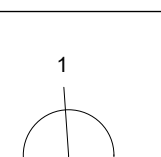
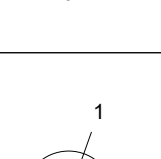
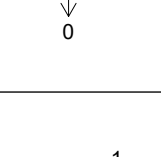
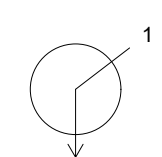
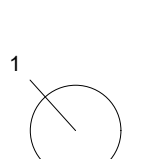
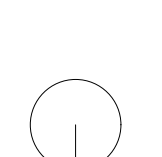
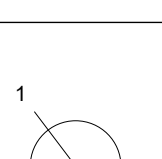
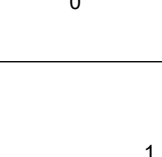
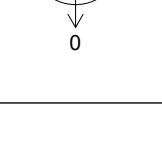
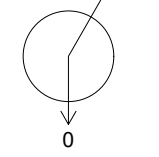
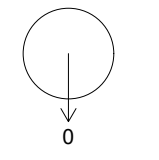
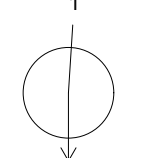
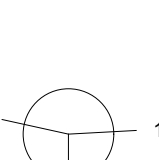
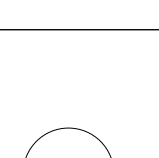
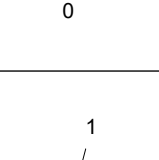


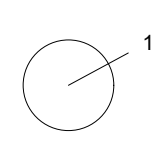
Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types		
			Code	Inverts	Diams		Manhole	Cover	
S37	37.420		1 2	1.014 6.001	34.085 34.535	675 225	1500	B	D400
E. 445441.286	2.660		0	1.015	34.085	675			
N. 404819.939			0	1.016	33.846	675			
S38	36.400		1	1.015	33.846	675	1500	B	D400
E. 445432.140	1.879		0	1.016	33.846	675			
N. 404789.831			0	1.016	33.700	675			
S39 - Headwall	34.800		1	1.016	33.700	675	Althon Headwall - SFA10 C Headwall or similar approved		
E. 445418.993			0	1.016	33.700	675			
N. 404791.495			0	1.016	33.700	675			
S40	45.091		1	1.466			1350	C	D400
E. 445203.529	1.466		0	7.000	43.400	225			
N. 404914.932			0	7.000	43.400	225			
S41	46.451		1	1.953			1200	B	D400
E. 445202.925	1.953		0	8.000	44.273	225			
N. 404942.470			0	8.000	43.294	225			
S42	45.963		1 2	8.000 7.000	43.294 43.294	225 225	1200	B	D400
E. 445204.188	2.444		0	7.001	43.219	300			
N. 404932.760			0	7.001	43.219	300			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover
S55	36.626		1 11.001	35.201	225	1350	C	D400
E. 445244.773 N. 404829.153	1.200		0 11.002	35.201	225			
			0 11.003	34.774	450			
S56	36.424		1 11.002	34.999	225	1350	C	D400
E. 445263.177 N. 404828.490	1.200		0 11.003	34.774	450			
			0 11.003	34.774	450			
S57	37.982		1 1.200			1350	C	D400
E. 445354.486 N. 404835.190	1.200		0 12.000	36.557	225			
			0 12.000	36.104	225			
S58	37.529		1 1.200			1350	C	D400
E. 445332.285 N. 404835.760	1.200		0 12.001	36.104	225			
			0 12.001	35.611	225			
S59	37.036		1 1.200			1350	C	D400
E. 445263.416 N. 404829.903	1.200		0 12.002	35.611	225			
			0 12.002	35.611	225			
S60	36.648		1 2.312	12.002 7.007 11.003	34.893 34.743 34.668	1350	B	D400
E. 445286.252 N. 404832.028	1.530		0 7.008	34.668	450			
			0 7.008	34.668	450			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover
S43	46.218		1 1.200			1350	C	D400
E. 445255.936 N. 404973.820	1.200		0 9.000	44.868	150			
			0 9.000	44.868	150			
S45	45.601		1 2.413	9.001 7.001	43.038 42.888	1350	B	D400
E. 445260.137 N. 404936.652	2.413		0 7.002	42.813	375			
			0 7.002	42.813	375			
S46	45.065		1 1.910			1350	B	D400
E. 445260.695 N. 404928.625	1.910		0 7.003	42.780	375			
			0 7.003	42.780	375			
S47	43.830		1 1.202			1350	C	D400
E. 445260.634 N. 404911.328	1.202		0 7.004	42.253	375			
			0 7.004	42.253	375			
S48	43.200		1 1.210			1350	C	D400
E. 445264.746 N. 404899.632	1.210		0 7.005	41.615	375			
			0 7.005	41.615	375			

Manhole Number		Cover Level	Connections	Pipe			Manhole Size	Types		
Coordinates		Depth To Soffit		Code	Inverts	Diams		Manhole	Cover	
S61		35.800		1	7.008	34.150	450	1350	C	D400
E.	445286.964	1.200		0	7.009	34.150	450			
N.	404821.007									
S62 - Headwall		34.800		1	7.009	33.700	450	Althon Headwall - SFA10 C Headwall or similar approved		
E.	445296.631									
N.	404814.541									
S63		34.800						Attenuation Basin		
E.	445299.824									
N.	404801.943			0	1.018	33.400	750			
S64		34.800		1	1.018	32.900	750	Flow Control		
E.	445298.283	1.600								
N.	404797.187			0	1.019	32.900	300			
S65		33.138		1	1.019	31.713	300	1200	B	D400
E.	445287.194	2.312								
N.	404789.442			0	1.020	30.526	300			
S66		29.804		1	1.020	28.379	300	1350	C	D400
E.	445286.491	1.125								
N.	404705.877			0	1.021	28.379	300			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover
S49	42.885		1 1.206	7.005	41.304	1350	C	D400
E. 445271.014 N. 404894.638	1.206		0 7.006	41.304	375			
			0 7.006	41.304	375			
S50	43.181		1 1.200			1350	C	D400
E. 445345.304 N. 404897.337	1.200		0 10.000	41.756	225			
			0 10.000	40.903	225			
S51	42.328		1 1.200			1350	C	D400
E. 445297.390 N. 404894.703	1.200		0 10.001	40.302	225			
			0 10.001	40.152	225			
S52	42.549		1 2.022	10.001 7.006	40.302 40.152	1350	B	D400
E. 445282.321 N. 404892.906	2.022		0 7.007	40.152	375			
			0 7.007	40.152	375			
S53	38.000		1 1.200			1350	C	D400
E. 445208.275 N. 404845.069	1.200		0 11.000	36.575	225			
			0 11.000	35.732	225			
S54	37.157		1 1.200			1350	C	D400
E. 445227.034 N. 404834.099	1.200		0 11.001	35.732	225			
			0 11.001	35.732	225			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams		Manhole	Cover
S67	28.948		1 1.401	1.021	27.247	Althon Outfall Headwall SFA6 A or similar approved		
E. 445251.741 N. 404687.110	1.401		0 1.021	27.247	300			
			0 1.021	27.247	300			

- All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Icosa Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
- Manhole covers shall must have a clear opening of 675mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Icosa Water before any sewer works are carried out.
- Icosa Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
- Cover slabs must carry the BSI Kitemark or will be rejected by Icosa Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 975mm x 975mm for the Icosa Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
- Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- Adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5m clearance from trees and hedges.
- Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
- Icosa Water policy is that Type "C" brick manholes and 1050mm dia manhole rings are not preferred. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sized over the channel where depth of cover to pipe soffit is 1 - 1.5m.
- Adoptable plastic sewer pipes to