



SEVERN TRENT SERVICES OPERATIONS UK LTD

Contract	Aquatrine Package C Contract for MOD
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Revision history

Revision number	Issue date	Description of revision	Section / pages revised
1.0	August 2018	First issue	All
1.1	April 2019	Updated STS Engineering Specification v1.1 incorporated	All
1.2	Dec 2019	Incorporating current Engineering Specification	p.3,4 section 3,8,9,12

Sewerage	1	Includes foul and surface water and sewage pumping stations
	2	'Sewers for Adoption' is the Water Industry standard used by consultants, developers and contractors to design and construct assets for adoption by Statutory Undertakers.
	3	<p>STS use this standard when assessing proposals from MOD Development Projects and designs or completed assets that do not meet this standard will not be adopted by STS.</p> <p>The current edition of Sewers for Adoption is the 7th Edition, this needs to be used in conjunction with the current STS 3000 Engineering Specification .</p>
Potable Water	4	The industry standards of CESWI (Civil Engineering Specification for the Water Industry – current version is 7 th Edition) published by UK Water Industry Research Ltd and WIMES (Water Industry Mechanical and Electrical Specification current version 3.03) are used extensively by Statutory Undertakers, usually with specific modifications.
	6	<p>All materials used, for new assets, must be compliant with DWI Regulation 31.</p> <p>DWI Reg. 31 certificates must be submitted to STS before STS will adopt new potable water assets.</p>
Sewage Treatment	7	<p>The industry standards, WIMES and CESWI as above, apply to any sewage treatment facilities provided as part of a development project.</p> <p>The developer is strongly encouraged to contact STS in the early stages of the project for advice regarding any new sewage treatment facilities proposed for adoption by or handover to STS.</p>
Telemetry	8	The current STS Telemetry Specification should be read by developers who need to install telemetry systems on assets for adoption by STS, this is detailed within the current STS 3000 Engineering Specification.
Standards	9	The specifications for Sewerage, Potable Water & Sewage Treatment and Telemetry above should be read in conjunction with the current STS 3000 Engineering Specification.
Soakaways and Attenuation Tanks	10	'Sewers for Adoption' is the Water Industry standard used by consultants, developers and contractors to design and construct assets for adoption by Statutory Undertakers.
	11	<p>STS do not accept geo-cellular type structures.</p> <p>As such we would object to any design proposals that incorporate these.</p> <p>If the developer chooses to install this type of asset, STS will not accept responsibility for any network installed that is connected to this type of structure i.e. for Geo-cellular soakaways the network upstream would not be adopted, for Geo-Cellular attenuation structures the network upstream and downstream would not be adopted.</p> <p>STS do not adopt these SuDS (Sustainable Drainage Systems) because is not possible to adequately maintain these structures as well as a lack of proven long-term build reliability.</p>

		<p>Whilst we appreciate the work of the Construction Industry Research and Information Association (CIRIA) and the CIRIA C753, the SuDS Manual, – this is not part of the STS standards for adoption of assets.</p> <p>STS would adopt the following alternative structures (dependent on site soil conditions and percolation tests – STS require that these designs be submitted at the application stage for review prior to approval)</p> <ul style="list-style-type: none"> • the standard granular fill soakaways • the Precast Concrete Box type attenuation tanks <p>to SuDS as they have appropriate access for cleaning, CCTV and Jetting. Soakaways are not to be constructed under Car Parks.</p>
Adoption of Assets	12	<p>Safe Access for Assets</p> <p>Sewerage Pumping Stations already covered under SFA 7th Edition. Water / Fire Pumping Stations, EWS Tanks, Sewerage Treatment Works, SVR's should have vehicular access – concrete or Grascrete.</p> <p>Oil Water Interceptors, Cess Pits & Septic Tanks require access for Tankering</p> <p>Kiosks – all kiosks should be constructed to the current STS 3000 Engineering Specification.</p> <p>EWS' & SVR's should be fenced off with Gate access.</p> <p>Vents should have a concrete surround at the base & adequate supporting steelwork.</p>
	13	<p>Assets which require telemetry will need to be inspected with all handover information provided for STS to review and be in an adoptable standard before the Telemetry is configured to the STS telemetry system.</p>