

Ref.	Infiltration Result
SA1	7.3×10^{-5}
SA2	3.4×10^{-5}
SA3	N/A
SA4	1.2×10^{-4}
SA5	4.6×10^{-5}
SA6	6.6×10^{-5}

Surface Water

	Proposed Surface Water Sewer (ADOPTABLE - Wrexham SAB)
	Proposed Surface Water Lateral Drain (ADOPTABLE - Wrexham SAB)
	Proposed Surface Water Sewer Connections to SUDS (ADOPTABLE - Wrexham SAB)
	Proposed Surface Water Under Drain (ADOPTABLE - Wrexham SAB)
	Proposed Surface Water Drain (PRIVATE)
	Drainage Channel (PRIVATE)
	Surface Water Manhole (ADOPTABLE - Wrexham SAB)
	Type 3 Surface Water Inspection Chamber (ADOPTABLE - Wrexham SAB)
	Type 3 Surface Water Silt Trap Chamber (ADOPTABLE - Wrexham SAB)
	Type 4 Surface Water Inspection Chambers - <i>Not greater than 2 properties</i> (ADOPTABLE - Wrexham SAB)
	Type 4 Surface Water Inspection Chambers - <i>Not greater than 1 property</i> (PRIVATE)
	Surface Water Rodding Eye (ADOPTABLE - Wrexham SAB)
	Surface Water Rodding Eye (PRIVATE)
	Rain Water Pipe (RWP) Connection (PRIVATE)
	Yard Gully (PRIVATE)
	Road Gully (ADOPTABLE - Wrexham SAB)
	PERMEABLE ROAD CONSTRUCTION (ADOPTABLE - Wrexham SAB)

Foul Water

	Proposed Foul Water Sewer (ADOPTABLE - DCWW)
	Proposed Foul Water Lateral Drain (ADOPTABLE - DCWW)
	Proposed Foul Water Drain (PRIVATE)
	Foul Water Manhole (ADOPTABLE - DCWW)
	Type 3 Foul Water Inspection Chamber (ADOPTABLE - DCWW)
	Type 4 Foul Water Inspection Chambers - <i>Not greater than 3 properties</i> (ADOPTABLE - DCWW)
	Type 4 Foul Water Inspection Chambers - <i>Not greater than 1 property</i> (PRIVATE)
	Soil Vent Pipe (SVP) / Direct Drain Connection (PRIVATE)

Permeable surface carriageway, substructure impermeably lined NOT allowing water to infiltrate directly to ground. Run-off is conveyed through the sub-base ultimately discharging to the surface water pumping station.

Impermeable Shared Drive Non Infiltrating. Run-off is conveyed through pipe system via catch-pit to an outlet pipe and into the impermeably lined sub-base of carriageway.

Surface Water Run-off from roof areas is conveyed through a typical plot drainage network discharging into the impermeably lined sub-base of the carriageway via a perforated outlet pipe.

Impermeable Feature Table
/Carriageway to allow a
service corridor for DCWW
to access adoptable FW
drainage for maintenance.

SA1 Plots and Shared Drive to drain via a traditional pipe network. Run-off is conveyed through pipe system to the sub-base of the shared drive infiltrating direct to ground.

Attenuation Basin,
Impermeably lined, NOT
infiltrating. Providing storage
during extreme storm events
and conveying flows to the
Surface Water Pumping Station

Permeable surface carriageway,
substructure impermeably lined NOT
allowing water to infiltrate directly to
ground. Run-off is conveyed through the
sub-base ultimately discharging to the
surface water pumping station.

Inspection chambers at start and end of underdrain to allow routine inspection and maintenance.

Permeable surface carriageway, substructure impermeably lined NOT allowing water to infiltrate directly to ground. Run-off is conveyed through the sub-base ultimately discharging to the surface water pumping station.

Surface Water Run-off from roof areas is conveyed through a typical plot drainage network discharging into the impermeably lined sub-base of the carriageway via a perforated outlet pipe .

Plots and Shared Drive to drain via a traditional pipe network. Run-off is conveyed through pipe system to the sub-base of the shared drive infiltrating direct to ground.

Plots and Shared Drive to drain via a traditional pipe network. Run-off is conveyed through pipe system to the sub-base of the shared drive infiltrating direct to ground.

Impermeable Shared Drive
Non Infiltrating. Run-off is
conveyed through pipe system
via catch-pit to an outlet pipe
and into the impermeably
lined sub-base of carriageway.

Impermeable Feature Table /Carriageway to allow a service corridor for DCWW to access adoptable FW drainage for maintenance.



L	28.11.23	Inspection chambers shown at start and end of underdrains, for inspection & maintenance	CP
K	15.11.23	Key notes requested to reflect comments from SAB	CP
J	09.12.23	Updated to reflect comments from SAB/BSW/Enh	CP
I	15.08.23	Legend amended & updated with Layout Rev H/CP	CP
H	13.02.23	SAB design reviewed and colouring amended	CP
G	15.02.23	Notes/Key amended	CP
F	19.01.21	Batts Associates soakaway test results added	CP
E	20.08.21	Updated for SAB application, title changed	GW
D	05.08.21	Updated after detailed levels and drainage design	CP
C	25.06.21	FW drainage amended following Client comment	CP
B	23.06.21	FW discharge amended	CP
A	09.06.21	Preliminary issue for Client review and comment	CP
Mark	Date	Details	By

Drawing originator:



BETTS HYDRO
CONSTRUCTIVE INCHES



BETTS ASSOCIATES
CONSTRUCTIVE INCHES



BETTS GEO
CONSTRUCTIVE INCHES

Client:



**Castle
Green**

Rossett Road, Rossett										
Drawing title:										
Southern Water Parcel Main Drainage SuD's Features										
Scale:		1:250 for the original size of A0								
Drawn by:		CP	Checked by:		RA	Passed by:		RA	Date:	June 2021
Drawing sheet:										
For Information										
Job No:		Drawing No:	Origin:	Format:	Unit:	Scale:	Number:	Drawn by:	Revision:	
CA502		BET					C 102		L	
Do not scale this drawing 6 - 7 Inch Maps from Banks, Maps Road, Scotland, Ireland, Chis 2-17 enginfo@sw-scotland.co.uk Chis 2-17 01244 266178 Accession 01415331										