If there was a need to repair or replace the road structure, this can be accomplished whilst maintaining emergency access and egress. As the overall depth of construction is <1.2m excavation & replacement of the road make-up (surface course, laying course, sub-base etc.) can be achieved through single lane closures and appropriate traffic management (temporary traffic lights, Stop/Go signage etc.)

If the infiltration system fails, gullies located at the site entrance/bellmouth will intercept and contain SW flows on site. The gullies are to drain to a proposed Soakaway Ring.

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.

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.

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 Drive's, 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.

High Piint

HIgh Point

Plot 63
Plot 64
Plot 118
Plot 120
Plot 121
Plot 122

FFL 12.950
FFL 13.000 MARLOW - SEMI OPP AS
FFL 13.250
FFL 13.550 HEATHERINGTON OPP
FFL 13.600 CANTERBURY AS
FFL 13.400
FFL 13.500 CANTERBURY OPP
FFL 13.500 ALDERTON AS
FFL 13.500 ASHBURY AS

250 Under Drain

LEGEND

- SITE BOUNDARY
- FFL 134.65 FINISHED FLOOR LEVEL
- SURFACE WATER CONVEYANCE MAIN DRAINAGE
- S104 FOUL WATER MAIN DRAINAGE
- SURFACE WATER RUN-OFF FROM ROOF AREAS IS CONVEYED THROUGH A TYPICAL PLOT DRAINAGE NETWORK DISCHARGING INTO THE SUB-BASE OF THE PERMEABLE CARRIAGEWAY VIA A PERFORATED OUTLET PIPE.
- SURFACE WATER RUN-OFF FROM ROOF AREAS IS CONVEYED THROUGH A TYPICAL PLOT DRAINAGE NETWORK DISCHARGING INTO DOMESTIC PCC RING SOAKAWAY.
- CATCHPIT MANHOLE AND CONNECTION TO CARRIAGEWAY SuD'S FEATURE
- PLOT DRAINAGE CONNECTION MANHOLE & PIPE WORK
- 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 PUMPING STATION.
- IMPERMEABLE PEDESTRIAN FOOTWAYS DISCHARGING ONTO PERMEABLE SURFACE CARRIAGEWAY
- IMPERMEABLE DRIVE'S, NON INFILTRATING. RUN-OFF IS CONVEYED THROUGH PIPE SYSTEM VIA CATCH-PIT TO AN OUTLET PIPE AND INTO THE IMPERMEABLY LINED SUB-BASE OF THE CARRIAGEWAY CONVEYING FLOWS TO THE PUMPING STATION.
- IMPERMEABLE DRIVE'S, NON INFILTRATING. RUN-OFF IS CONVEYED THROUGH PIPE SYSTEM VIA CATCH-PIT TO AN OUTLET PIPE AND INTO THE PERMEABLE SHEARED PRIVATE DRIVE INFILTRATING DIRECT TO GROUND.
- IMPERMEABLE CARRIAGEWAY/ FEATURE TABLE - DCWW SERVICE CORRIDOR FOR ADOPTABLE FW DRAIANGE ACCESS
- IMPERMEABLE CARRIAGEWAY - DCWW SERVICE CORRIDOR FOR ADOPTABLE FW DRAIANGE ACCESS

Mark	Date	Details	By
D	09.10.23	Updated to reflect comments from SAB@Wrexham.	CP
C	15.08.23	SAB design amended & updated with Layout Rev H	CP
B	15.02.23	To support SAB submission	CP
A	19.10.22	Issue for SAB review and comment	CP

Revision history

Drawing originator:

BETTS ASSOCIATES
CONSULTING ENGINEERS

Client:

Castle Green

Project title:

Rossett Road,
Rossett

Drawing title:

South Land Parcel
Site Access Drainage
SUD's Features

Scale: As Indicated for the original size of A3

Drn by: CP | Chkd by: RA | Passed by: RA | Date: Oct 2022

Drawing status:

For Information

Job No:	Drawing No: Project	Origin.	Volume	Level	Type	Discip.	Number	Revision:
CAS02	xx	BET	xx	xx	xx	C	03	D

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150mm
100mm
50mm
0
10mm