e3p Boreholes	
Ref.	Ground Water mbgl
WS101	2.5
WS102	N/A
WS103	2.0
WS104	N/A
WS105	2.5
WS106	N/A
WS107	N/A
WS108	2.0
WS109	1.1
WS110	N/A
WS111	N/A
WS112	1.0
WS113	1.5
WS114	N/A
WS115	2.5
WS116	1.0
WS117	1.1
WS118	N/A
WS119	1.0
WS120	1.0
WS121	1.8
WS122	N/A
WS123	1.1
WS124	1.1

Waterco SA Test Results	
Ref.	Infiltration Result
TP1	$1.28x10^{-4}$
TP2	$7.71x10^{-5}$
TP3	$4.67x10^{-5}$
TP4	$1.26x10^{-4}$
TP5	N/A
TP6	N/A
TP7	$7.83x10^{-5}$
TP8	$6.33x10^{-4}$
TP9	$1.42x10^{-5}$
TP10	$1.69x10^{-5}$
TP11	$4.66x10^{-5}$
TP12	$8.01x10^{-5}$

e3p Trail Pits	
Ref.	Ground Water mbgl
TP101	1.4
TP102	0.8
TP103	0.6
TP104	0.8
TP105	0.8
TP106	0.5
TP107	1.4
TP108	0.6
TP109	0.8
TP110	0.8
TP111	1.0
TP112	1.0
TP113	1.1
TP114	1.5
TP115	N/A
TP116	N/A
TP117	1.9
TP118	N/A
TP119	1.2
TP120	1.5
TP121	N/A
TP122	1.3
TP123	1.3
TP124	1.4
TP125	N/A
TP126	N/A
TP127	1.3
TP128	1.1
TP129	1.6
TP130	1.6
TP131	1.0
TP132	N/A
TP133	1.0
TP134	N/A
TP135	N/A
TP136	N/A

Betts Geo SA Test Results		
Ref.	Infiltration Result	Ground Water mbgl
SA1	$7.3x10^{-5}$	1.6
SA2	$3.4x10^{-5}$	1.8
SA3	N/A	No Ingress of water
SA4	$1.2x10^{-4}$	1.7
SA5	$4.6x10^{-5}$	1.5
SA6	$6.6x10^{-5}$	1.2

Approximate extents of area not considered viable for direct infiltration of SW to ground due to underlying clay & groundwater.

Permeable Drive's Non Infiltrating. Run-off is conveyed through sub-base to an outlet pipe and into the permeable carriageway infiltrating direct to ground.

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 .

Permeable Shared Drive Non Infiltrating. Run-off is conveyed through sub-base to an outlet pipe and into the permeable carriageway infiltrating direct to ground.

Permeable Drive's Non Infiltrating. Run-off is conveyed through sub-base to an outlet pipe and into the permeable carriageway infiltrating direct to ground.

Permeable Carriageway Infiltrating Direct to Ground

Permeable Shared Drive Non Infiltrating. Run-off is conveyed through sub-base to an outlet pipe and into the permeable carriageway infiltrating direct to ground.

Permeable Carriageway Infiltrating Direct to Ground

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 .

LEGEND

- SITE BOUNDARY
- FFL 134.65 FINISHED FLOOR LEVEL
- SURFACE WATER CONVEYANCE MAIN DRAINAGE
- S104 FOUL WATER MAIN DRAINAGE
- INFILTRATION BASIN
- SURFACE WATER RUN-OFF FROM ROOF AREA DISCHARGING TO PERMEABLE SHARED DRIVEWAYS & CONVEYED TO THE CARRIAGEWAY SUBASE AND INFILTRATED DIRECT TO GROUND
- 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.
- PERMEABLE CARRIAGEWAY SUBSTRUCTURE ALLOWING WATER TO INFILTRATE DIRECTLY TO GROUND
- IMPERMEABLE PEDESTRIAN FOOTWAYS DISCHARGING TO PERMEABLE CARRIAGEWAY
- PERMEABLE DRIVES, NON INFILTRATING. RUN-OFF IS CONVEYED THROUGH SUB-BASE TO AN OUTLET PIPE AND INTO THE PERMEABLE CARRIAGEWAY INFILTRATING DIRECT TO GROUND.
- CATCHPIT MANHOLE AND CONNECTION TO CARRIAGEWAY SuD'S FEATURE
- PLOT DRAINAGE CONNECTION MANHOLE
- 150mm PERFORATED PIPEWORK
- RODDING EYE
- BETTS GEO SOAKAWAY TEST LOCATIONS 27.10.2020
- WATERCO SOAKAWAY TEST LOCATIONS 30.09.2015
- e3p TRAIL PIT LOCATIONS 07.05.2021
- e3p BOREHOLE LOCATIONS 07.05.2021

Rossett Road
Lane Farm
Road 1TH
Road 2
Road 3
Road 4TH
Road 4
Footpath Link
Path (um)
Adjacent Dwelling
P.O.S.
SA1
SA2

E	xx.xx.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	25.04.21	FW drainage amended	CP
A	09.04.21	Preliminary issue for Client review and comment	CP
Mark	Date	Details	By

Revision History

Drawing originator: BETTS HYDRO CONSULTING ENGINEERS | BETTS ASSOCIATES CONSULTING ENGINEERS | BETTS GEO CONSULTING ENGINEERS

Client: Castle Green

Project title: Rossett Road, Rossett

Drawing title: Southern Land 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 status: For Information

Job No	Drawing No: Project	Originator	Volume	Level	Type	Discipline	Number	Revision:
CAS02		BET				C	102	E

Do not scale this drawing

6-7 Old Marsh Farm Barns, Welsh Road, Sealand, Flintshire, CH5 2LY
enquiries@bettsassociates.co.uk
Chester 01244 288178 | Altrincham 0161 6135331