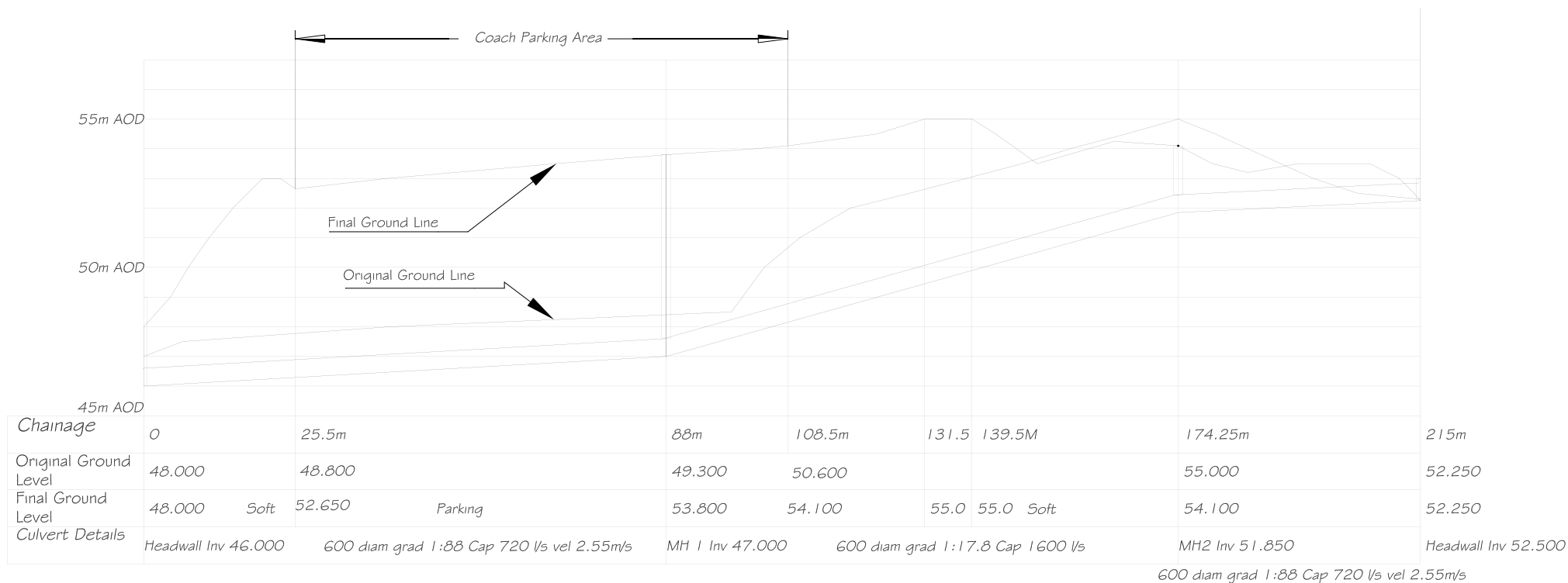


Appendix C

Long section of culverted watercourse

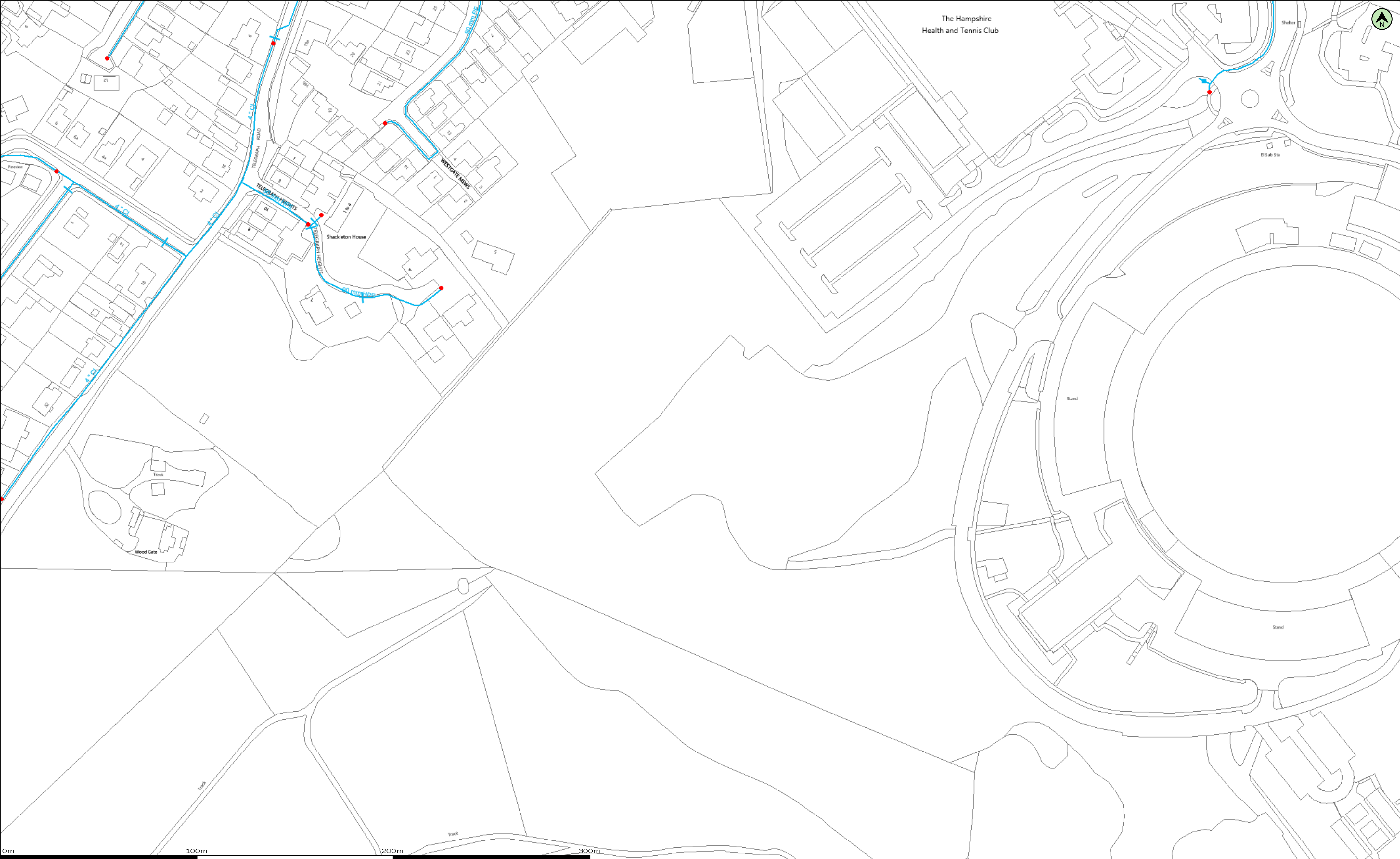


Note:- All works to be in accordance with
Sewers for Adoption (latest edition)

Rose Bowl Park and Ride
Telegraph Brook Proposed Culvert
Longitudinal Section
Scales H 1:1000 V 1:200 (A4)
Drg No 24012011

Appendix D

Sewerage network information from Southern Water



(c) Crown copyright and database rights 2020 Ordnance Survey 100031673 Date: 31/07/20 Scale: 1:1250 Map Centre: 447445,114068 Data updated: 15/06/20 Our Ref: 421211 - 1 Clean Water Plan A2

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2020 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

					
Water Main	Proposed Main	Trunk Main	Non-potable Main	Abandoned Main	Water Hydrant
					
					Water Meter
					
					Water Valve

mail@groundwise.com
6977-2





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The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2020 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

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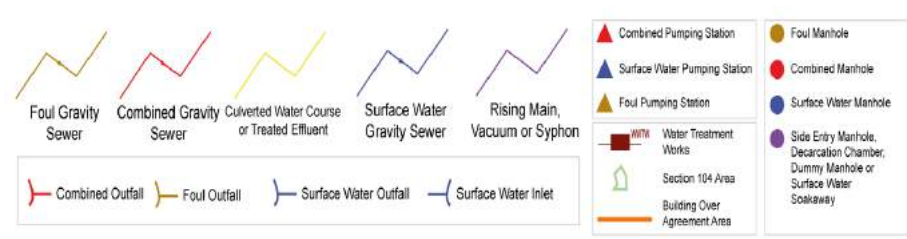


(c) Crown copyright and database rights 2022 Ordnance Survey 100031673 Date: 16/02/22 Scale: 1:1000 Map Centre: 447796,114276 Data updated: 17/01/22 Our Ref: 784163 - 2 Wastewater Plan A2

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2022 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

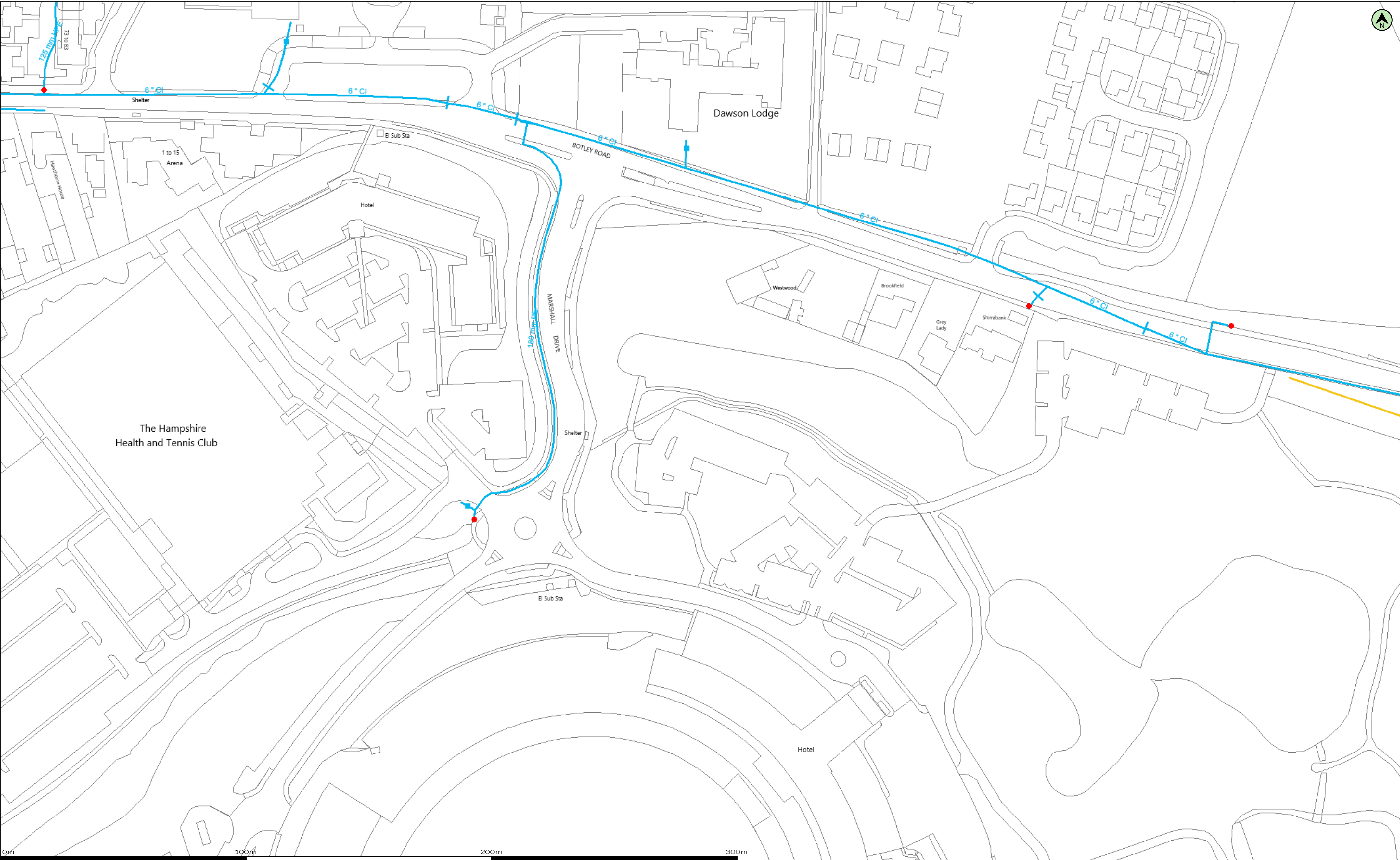
WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.



andy@andyclayconsulting.co.uk

Ageas Bowl



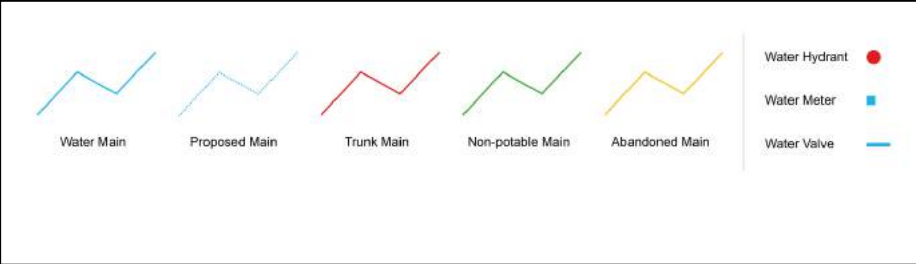


(c) Crown copyright and database rights 2022 Ordnance Survey 100031673 Date: 16/02/22 Scale: 1:1000 Map Centre: 447796,114276 Data updated: 17/01/22 Our Ref: 784163 - 1 Clean Water Plan A2

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2022 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

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WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.



andy@andyclayconsulting.co.uk
Ageas Bowl



Appendix E

Surface water drainage calculations

Character Area 1

447850 114250

Area: 6.6ha

Impermeable Area: 2.7ha

QBAR: 10.7 l/s

Volume required to accommodate 100yrcc: between 1998 & 2787m³

The 'Quick Storage Estimate' dialog box is shown with the 'Variables' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area contains the following fields:

Variable	Value
FSR Rainfall	[Dropdown]
Return Period (years)	100
Region	England and Wales
Map	M5-60 (mm)
M5-60 (mm)	19.800
Ratio R	0.350
Cv (Summer)	0.750
Cv (Winter)	0.840
Impermeable Area (ha)	2.700
Maximum Allowable Discharge (l/s)	10.7
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Climate Change between -100 and 600

The 'Quick Storage Estimate' dialog box is shown with the 'Results' tab selected. The left sidebar contains buttons for 'Variables', 'Results', 'Design', 'Overview 2D', 'Overview 3D', and 'Vt'. The main area displays the following text:

Global Variables require approximate storage of between 1998 m³ and 2787 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help.

Footer: Enter Climate Change between -100 and 600

Area 2 & 3

447850 114000

Area: 0.65ha

Impermeable Area: 0.61ha

QBAR: 2.4 l/s

Volume required to accommodate 100yrcc: between 452 and 631m³

The 'Quick Storage Estimate' dialog box is shown with the 'Variables' tab selected. The left sidebar contains buttons for Variables, Results, Design, Overview 2D, Overview 3D, and Vt. The main area contains the following fields:

Variable	Value
FSR Rainfall	100
Return Period (years)	100
Region	England and Wales
Map	M5-60 (nm)
Ratio R	19.800
Cv (Summer)	0.750
Cv (Winter)	0.840
Impermeable Area (ha)	0.610
Maximum Allowable Discharge (l/s)	2.4
Infiltration Coefficient (m/hr)	0.00000
Safety Factor	2.0
Climate Change (%)	40

Buttons at the bottom: Analyse, OK, Cancel, Help. A status bar at the bottom reads: Enter Maximum Allowable Discharge between 0.0 and 999999.0

The 'Quick Storage Estimate' dialog box is shown with the 'Results' tab selected. The left sidebar contains buttons for Variables, Results, Design, Overview 2D, Overview 3D, and Vt. The main area displays the following text:

Global Variables require approximate storage of between 452 m³ and 631 m³.

These values are estimates only and should not be used for design purposes.

Buttons at the bottom: Analyse, OK, Cancel, Help. A status bar at the bottom reads: Enter Maximum Allowable Discharge between 0.0 and 999999.0

Area 4

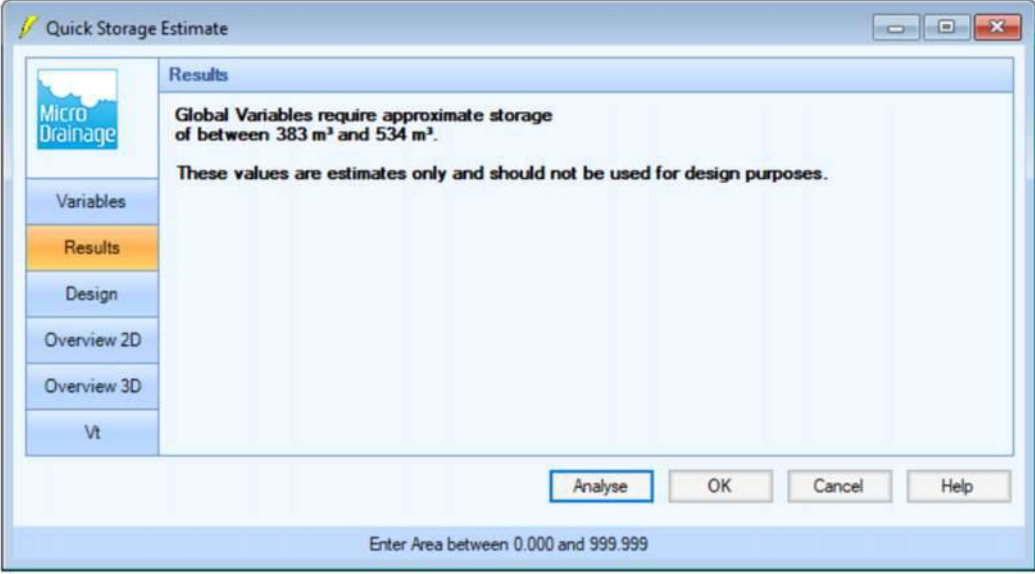
447700 113850

Area: 1.7ha

Impermeable Area: 0.52

QBAR: 2.1

Volume required to accommodate 100yrcc: Between 383m³ and 534m³



Quick Storage Estimate

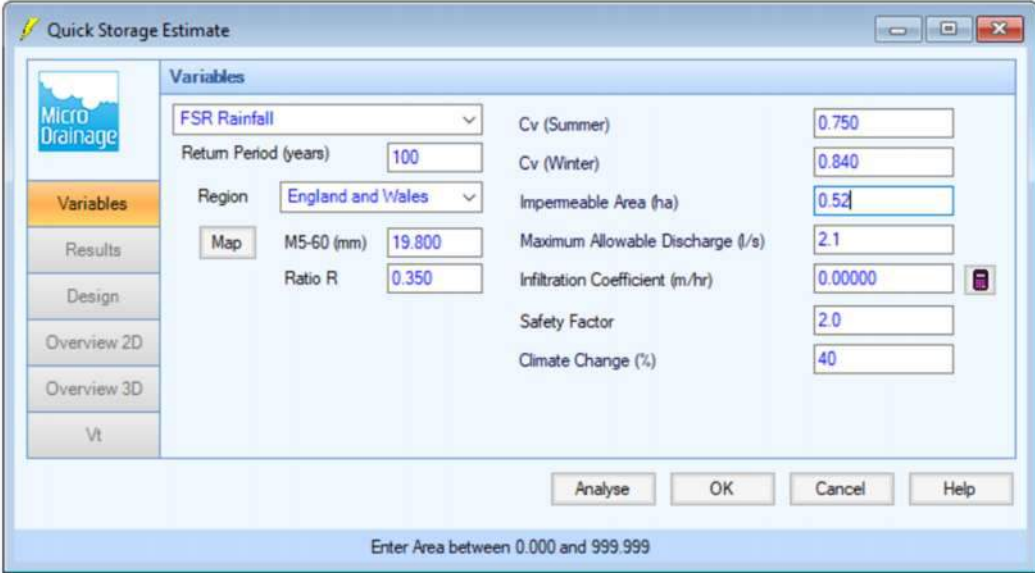
Results

Global Variables require approximate storage of between 383 m³ and 534 m³.

These values are estimates only and should not be used for design purposes.

Buttons: Analyse, OK, Cancel, Help

Enter Area between 0.000 and 999.999



Quick Storage Estimate

Variables

FSR Rainfall: [v]
 Return Period (years): 100
 Region: England and Wales [v]
 Map: M5-60 (mm) 19.800
 Ratio R: 0.350

Cv (Summer): 0.750
 Cv (Winter): 0.840
 Impervious Area (ha): 0.52
 Maximum Allowable Discharge (l/s): 2.1
 Infiltration Coefficient (m/hr): 0.00000
 Safety Factor: 2.0
 Climate Change (%): 40

Buttons: Analyse, OK, Cancel, Help

Enter Area between 0.000 and 999.999

Area 5 (residential)

447500 114050

Area: 7.2ha

Impermeable Area: 2ha

QBAR: 8 l/s

Volume required to accommodate 100yrcc: between 1476 and 2059m³

Quick Storage Estimate

Micro Drainage

Variables

FSR Rainfall

Return Period (years)

Region

Map

Ratio R

Cv (Summer)

Cv (Winter)

Impervious Area (ha)

Maximum Allowable Discharge (l/s)

Infiltration Coefficient (m/hr)

Safety Factor

Climate Change (%)

Analyse OK Cancel Help

Enter Climate Change between -100 and 600

Quick Storage Estimate

Micro Drainage

Results

Global Variables require approximate storage of between 1476 m³ and 2059 m³.

These values are estimates only and should not be used for design purposes.

Analyse OK Cancel Help

Enter Climate Change between -100 and 600