

Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Remove litter and debris	Monthly, or as required
	Cut grass – to retain grass height within specified design range	Monthly (during growing season), or as required
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect inlets, outlets and overflows for blockages, and clear if required	Monthly
	Inspect infiltration surfaces for ponding, compaction, silt accumulation, record areas where water is ponding for > 48 hours	Monthly, or when required
	Inspect vegetation coverage	Monthly for 6 months, quarterly for 2 years, then half yearly
	Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies	Half yearly
Occasional Maintenance	Reseed areas of poor vegetation growth, alter plant types to better suit conditions, if required	As required or if bare soil is exposed over 10% or more of the treatment area
Remedial Actions	Repair erosion or other damage by reseedling or re-turfing	As required
	Relevel uneven surfaces and reinstate design levels	As required
	Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface	As required
	Remove and dispose of oils or petrol residues using safe standard practices	As required

Table 6.2 Operation and maintenance requirements for swales and ponds

Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Remove litter and debris	Monthly, or as required
	Cut grass – to retain grass height within specified design range	Monthly (during growing season), or as required
	Manage other vegetation and remove nuisance plants	Monthly (at start, then as required)
	Inspect inlets, outlets and overflows for blockages, and clear if required	Monthly
	Inspect infiltration surfaces for ponding, compaction, silt accumulation, record areas where water is ponding for > 48 hours	Monthly, or when required
	Inspect vegetation coverage	Monthly for 6 months, quarterly for 2 years, then half yearly
	Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies	Half yearly
Occasional Maintenance	Reseed areas of poor vegetation growth, alter plant types to better suit conditions, if required	As required or if bare soil is exposed over 10% or more of the treatment area
Remedial Actions	Repair erosion or other damage by reseedling or re-turfing	As required
	Relevel uneven surfaces and reinstate design levels	As required
	Scarify and spike topsoil layer to improve infiltration performance, break up silt deposits and prevent compaction of the soil surface	As required
	Remove and dispose of oils or petrol residues using safe standard practices	As required

Table 6.3 Operation and maintenance requirements for Swales

7.0 Foul Water Drainage

Existing Foul Water

- 7.1 As detailed in section 2.2, the site is currently greenfield and does not have an existing foul water drainage system.

Proposed Foul Water

- 7.2 Southern Water records can be found in **Appendix E** and show a 150mm foul water sewer running along Rascals Close along the northern site boundary. It is not thought that a site will be able to drain by gravity, so a pumping station is proposed to the north-eastern of the site. A foul water drainage strategy can be found in full in **Appendix K**.
- 7.3 The peak foul flow rate from the proposed development has been based on the following assumptions as dictated by Sewers for Adoption 7th Edition:
- 4000 Litres per dwelling per day
 $4000 \times 73 = 292,000$
 $292000 / 86400 = 3.38 \text{ l/s}$
- 7.4 The calculated peak foul flow rate from the site is therefore 3.38 l/s.
- 7.5 The foul water system will be designed and constructed in accordance with the current Building Regulations, BS EN: 752 drainage and sewer systems outside buildings, the local authority building control specifications and requirements, Sewers for Adoption 7th Edition and the Civil Engineering Specification for the Water Industry 7th Edition.

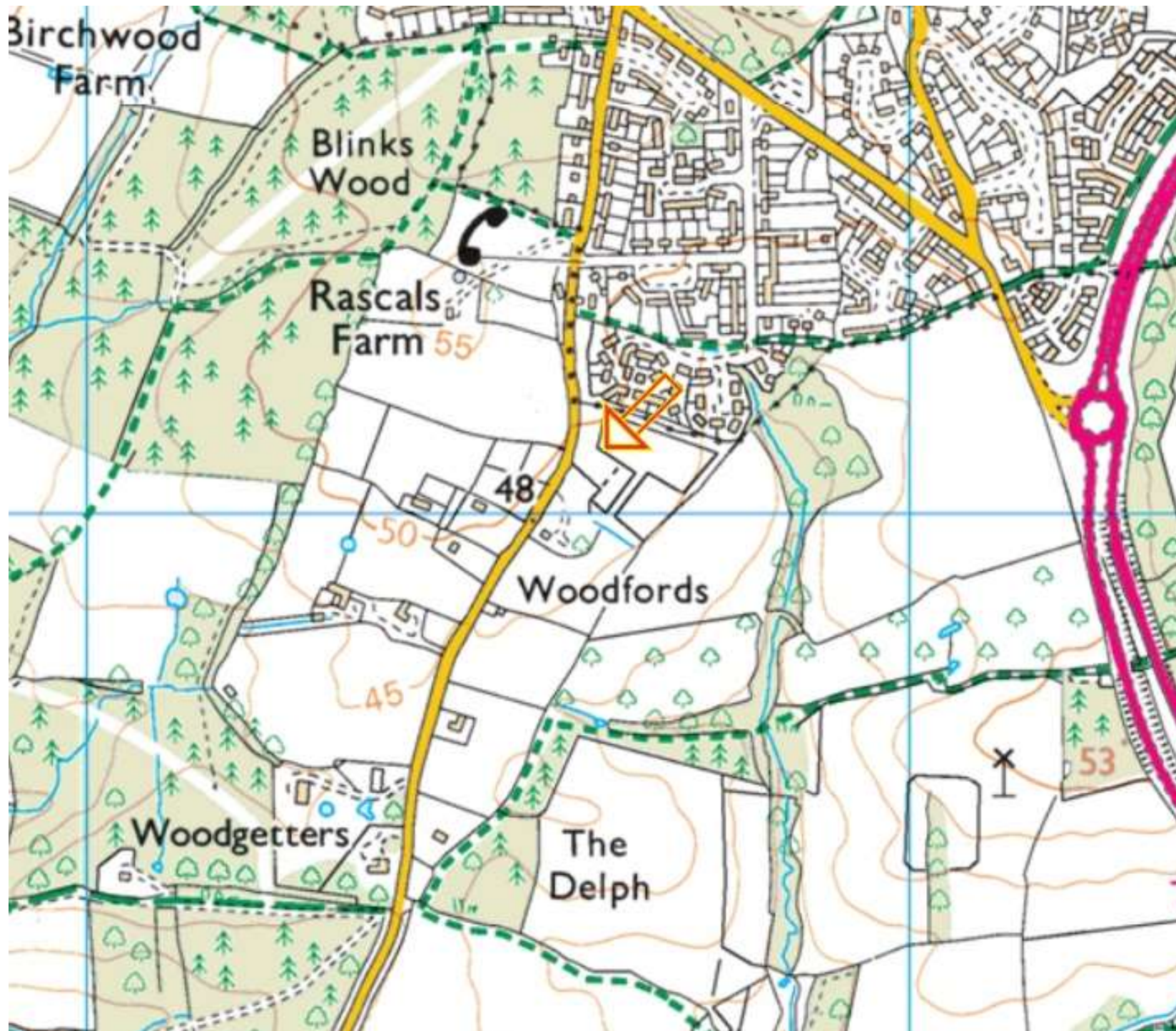
8.0 Summary and Conclusions

- 8.1 This FRA has been produced by Motion on behalf of Reside Developments to support a planning application for approximately 78 new residential developments with associated roads and parking at Woodfords, Shipley Road, Southwater, West Sussex. The nearest postcode is RH13 9GB.
- 8.2 The proposed 3.83-hectare (ha) development site is currently a combination of open field and an existing residential property.
- 8.3 The EA Flood Maps shows that the entirety of the site is located within Flood Zone 1, having a very low risk of flooding from the rivers or seas.
- 8.4 The EA Surface Water Flood Map shows the majority of the site is located in an area defined as 'very low' (outside of the modelled 1 in 1000 rainfall event) risk of surface water flooding. However, there is an area of site where the lower ground levels are located which are defined as 'low' (between 1 in 1000 and 1 in 100 chance), risk and 'medium' (between 1 in 100 and 1 in 30 chance) risk of surface water. The EA surface water flood maps show that surface water flood depths in these areas are between 0 to 300mm. It is understood that the finished floor levels of the buildings will be raised 300mm above existing ground levels so will not be affected by surface water flooding. In addition, the existing surface water flow path across the site will be diverted across the site and won't be affected.
- 8.5 The development site is also considered to be at very low risk of sewers, groundwater, and artificial sources.
- 8.6 The proposed development will increase the amount of hardstanding areas on site due to the new residential development and associated hardstanding areas. Therefore, without mitigation there would be an increase in surface water runoff as a result of the development of the site.
- 8.7 The total area of the site is 3.83 ha. UKSUDS was used to calculate the QBar Greenfield runoff rate for the entire site showing a result of 20.87 l/s or 5.45 l/s/ha. Catchment A has a total area of 1.43ha and Catchment B has a total area of 2.40ha. Therefore, Catchment A has a Greenfield runoff rate of 7.79 l/s and Catchment B has a Greenfield runoff rate of 13.08 l/s.
- 8.8 In order to attenuate the additional surface water from the development in Catchment A it is proposed to have permeable paving throughout the roads and parking areas which will the discharge into the watercourse along the eastern site boundary at a restricted rate of 3.82l/s. In order to attenuate the additional surface water from the development in Catchment B it is proposed to have permeable paving throughout the roads and parking areas, swales, and a pond in the south-eastern corner of the site. Surface water will the discharge into the watercourse along the southern site boundary at a restricted rate of 4.09l/s.
- 8.9 There is also an existing land drain which crosses the site. This land drain will remain as is and any additional surface water runoff from the development will be mitigated.
- 8.10 The proposed ditches the surface water runoff will discharge into are located on the development site. If any third-party permission is required, then this will be covered at detailed design phase.
- 8.11 The SuDS features will also improve water quality on site as contaminated run-off passing through the permeable paving will be treated to remove silts, sediment, and hydrocarbon through the process of filtration.
- 8.12 The proposed drainage strategy has been designed to cater for the 1 in 100 + 40% CC event in accordance with the requirements of the LLFA, the EA as well as the NPPF.

This FRA demonstrates that the flood risk for the proposed development can be managed on site without creating a risk to the proposed development or increasing the risk to any neighbouring developments or downstream areas, and therefore fulfils the requirements of the PPG and NPPF.

Appendix A

Site Location Plan



Appendix B

Masterplan

FOR ILLUSTRATIVE
PURPOSES ONLY

CDM 2015 Health & Safety Information
This information relates only to 'Significant Hazards' identified on this drawing
and is to be read in conjunction with the Designer's Hazard Register.



**Indicative Accommodation
Schedule**

Market	
13no.	2-Bedroom Dwellings
19no.	3-Bedroom Dwellings
12no.	4-Bedroom Dwellings
Adaptable	
9no.	1-Bedroom Dwellings
7no.	2-Bedroom Dwellings
11no.	3-Bedroom Dwellings
2no.	4-Bedroom Dwellings
Total:	73 Dwellings

Rev. Date Revision Details Dr. CR

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Client's Name
Reside Developments

Job Title
Shipley Road, Southwater

Drawing Title
Alternative Illustrative Layout

Scale
1:500 @ A0 / 1:1000 @ A2

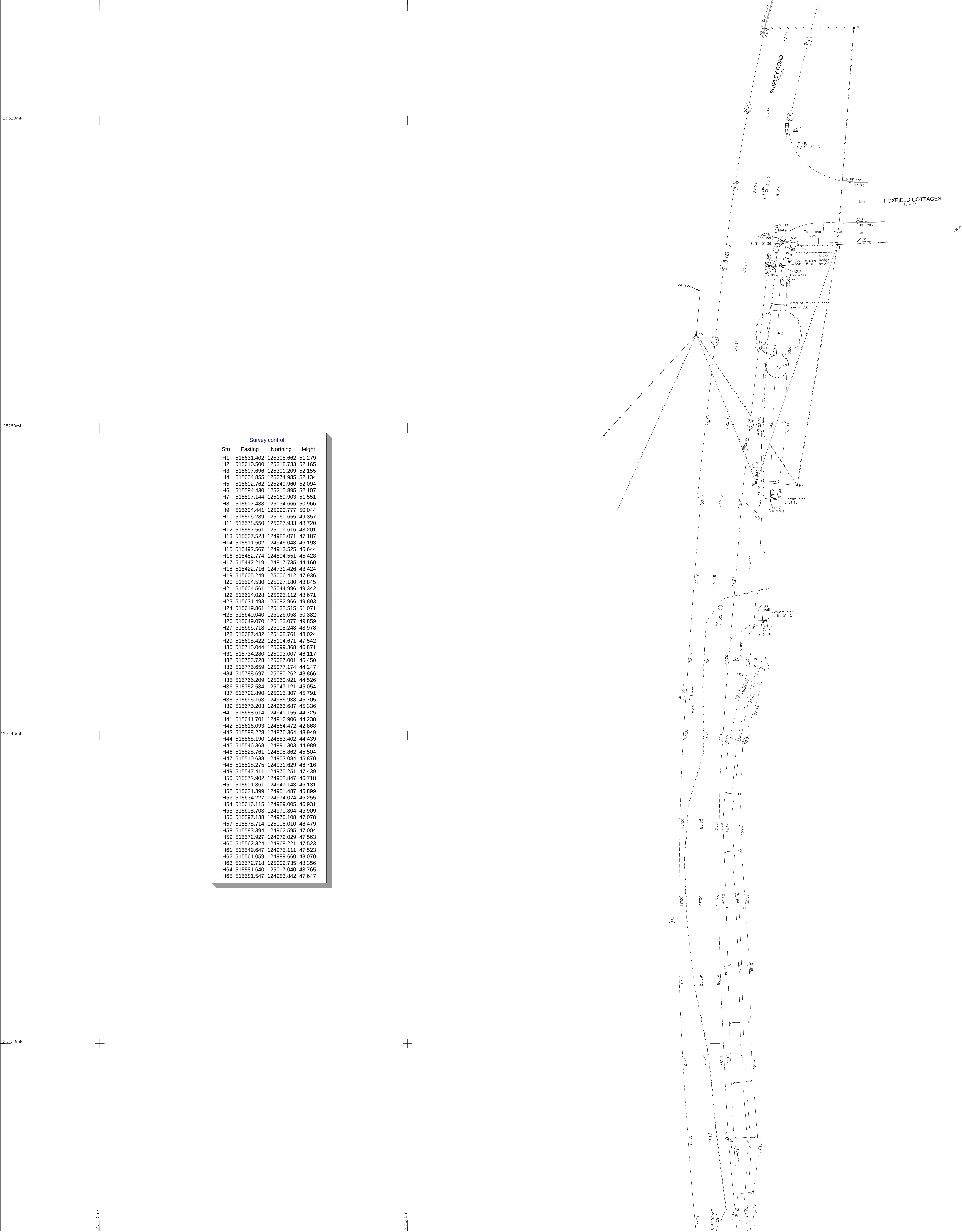
Drawn
KE

Job No
6769

Status
INFORMATION

Appendix C

Topographic Survey



Survey control			
Stn	Easting	Northing	Height
H1	515631.402	125305.662	51.279
H2	515610.500	125318.733	52.165
H3	515607.696	125301.209	52.155
H4	515604.855	125274.985	52.134
H5	515602.762	125249.961	52.094
H6	515594.430	125215.895	52.107
HT	515597.144	125169.903	51.551
H8	515607.489	125134.666	50.969
H9	515604.441	125090.777	50.044
H10	515596.289	125060.655	49.357
H11	515578.550	125027.933	48.720
H12	515557.561	125009.616	48.201
H13	515537.523	124982.071	47.187
H14	515511.502	124946.046	46.193
H15	515492.567	124913.525	45.644
H16	515482.774	124894.551	45.428
H17	515442.219	124817.735	44.161
H18	515422.716	124731.426	43.424
H19	515605.249	125060.412	47.936
H20	515594.530	125027.180	48.945
H21	515604.561	125044.996	49.342
H22	515614.028	125025.112	48.671
H23	515631.493	125082.966	49.893
H24	515619.861	125132.515	51.071
H25	515640.040	125126.059	50.382
H26	515649.070	125123.077	49.859
H27	515666.718	125118.248	48.978
H28	515687.432	125108.761	48.024
H29	515698.422	125104.671	47.542
H30	515715.044	125099.368	46.871
H31	515734.280	125093.007	46.117
H32	515753.726	125087.001	45.460
H33	515775.659	125077.174	44.247
H34	515788.697	125080.262	43.866
H35	515766.209	125060.921	44.526
H36	515752.584	125047.121	45.054
H37	515722.890	125015.307	45.791
H38	515695.163	124986.938	45.705
H39	515675.203	124963.687	45.336
H40	515658.614	124941.155	44.725
H41	515641.701	124912.906	44.238
H42	515616.093	124864.472	42.868
H43	515588.228	124876.364	43.949
H44	515568.190	124893.402	44.439
H45	515546.368	124891.303	44.989
H46	515528.761	124895.862	45.504
H47	515510.638	124903.084	45.870
H48	515518.275	124931.629	46.716
H49	515547.411	124970.251	47.439
H50	515572.902	124952.947	46.718
H51	515601.861	124947.143	46.131
H52	515621.399	124951.487	45.899
H53	515634.227	124974.074	46.255
H54	515616.115	124889.005	46.931
H55	515608.703	124970.804	46.909
H56	515597.138	124970.108	47.078
H57	515578.714	125006.010	48.479
H58	515583.394	124962.595	47.004
H59	515572.927	124972.029	47.563
H60	515562.324	124968.221	47.523
H61	515549.647	124975.111	47.523
H62	515561.059	124969.660	48.070
H63	515572.718	125002.735	48.356
H64	515581.640	125017.040	48.765
H65	515581.547	124963.942	47.647

Tree Schedule							
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4	Hawthorn	d=0.15	h=7	126	Oak	d=0.5	h=15
5	Maple	d=0.35	h=10	127	Oak	d=0.5	h=15
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10	Oak	d=0.55	h=15	132	Maple	d=0.25	h=9
11	Sweet chestnut	d=0.25	h=10	133	Ash	d=0.25	h=10
12	Oak	d=0.55	h=15	134	Ash	d=0.25	h=10
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16	Oak	d=0.45	h=15	138	Oak	d=0.65	h=15
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27	Oak	d=0.45	h=12	149	Oak	d=0.5	h=15
28	Copper beech	d=0.35	h=12	150	Oak	d=0.5	h=15
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92	Oak	d=0.5	h=15	214	Sweet chestnut	d=0.2	h=10
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109	Ash	d=0.3	h=12	231	Ash	d=0.35	h=12
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112	Ash	d=0.25	h=10	234	Silver birch	d=0.2	h=5
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118	Maple	d=0.2	h=9	240	Ash	d=0.1	h=3
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120	Maple	d=0.2	h=9	242	Ash	d=0.45	h=15
121	Maple	d=0.2	h=9	243	Ash	d=0.45	h=15
122	Maple	d=0.2	h=9	244	Ash	d=0.45	h=15
				245	Fruit	d=0.45	h=6

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Hook Survey Legend

Hedge Undergrowth Tree Bush Building Glass Building Open Building

Telephone line Power line Banking Contour line 6.4 Survey Station Gate Level

Ordnance Survey Benchmark

Foul Drainage Storm Drainage

Abbreviations

Animal Settle Air Valve Bonhole Bus Stop Cover Level Earth Road Electricity Pole Fire Hydrant Inspection Cover Invert Level Lamp Post Manhole Marker Name Plate Power Pole Rain water Pipe Road Sign Rodding Eye Reinforced Steel Joint Soil Vent Pipe Stop Valve Survey Station Telegraph Pole Tree Stump Trial Hole Unusable To Lift Vent Pipe Water Valve

Notes

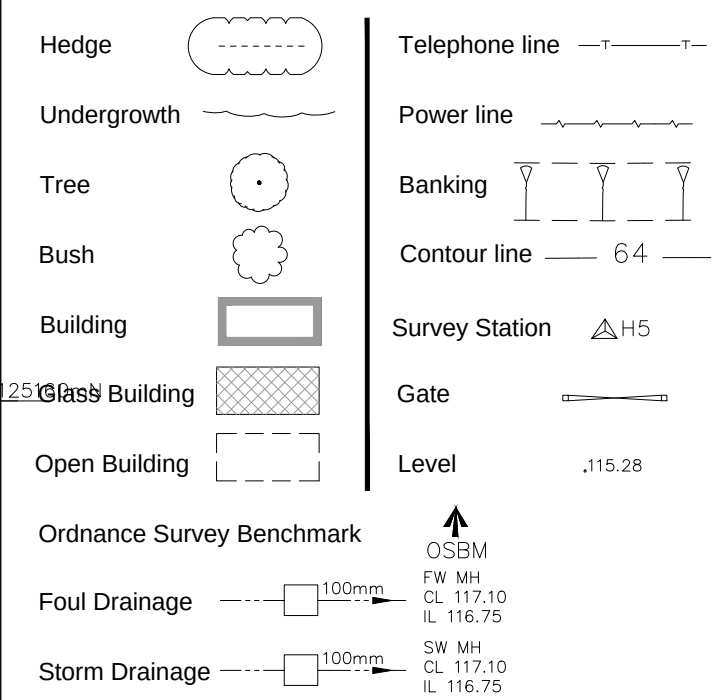
All trees are identified where possible. Species, general height and girth are indicative only.

Drainage has been surveyed where found, and traced where possible.

<

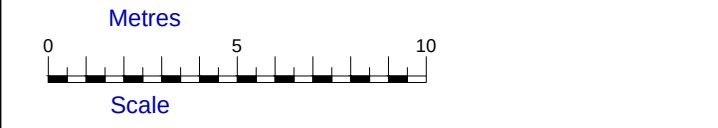
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be made against or incurred by Hook Survey Partnership in connection with the use of these Plans for the purposes stated in the Client's
order. The Client will also indemnify and hold Hook Survey Partnership harmless from and against all claims, damages, costs and
expenses (including reasonable legal fees) which may be made against or incurred by Hook Survey Partnership in connection with
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Hook Survey Legend



Abbreviations

Animal Sett	Sett
Air Valve	AV
Borehole	BH
Bus Stop	BS
Cover Level	CL
Earth Rod	ER
Electricity Pole	EP
Fire Hydrant	FH
Inspection Cover	IC
Invert Level	IL
Lamp Post	LP
Mainhole	MH
Marker	MK
Name Plate	RNP
Power Pole	PP
Rain Water Pipe	RWP
Road Sign	RS
Roding Eye	RE
Reinforced Steel Joint	RSJ
Soil Vent Pipe	SV
Stop Valve	SV
Survey Station	STN
Telegraph Pole	TP
Tree Stump	TS
Trial Hole	TH
Unable To Lift	UTL
Vent Pipe	VP
Water Valve	WV



All trees are identified where possible.
Species, named, height and girth are
indicative only.

Drainage has been surveyed where found,
and traced where possible.

Eaves and ridge heights of surrounding buildings
have been surveyed where possible.

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HOOK SURVEY PARTNERSHIP

Land & Building Surveyors

www.hooksurvey.com

Project: Woodfores, Shipley Road, Southwater, RH13 9BG

Client: Reside Developments Ltd

Drawing title: Topographical Survey

Job No.: S197188 Dwg No.: S197188/02 Revision: 1

Scale: 1:200 Date: July 2019 Drawn by: D.S.

Grid & Levels related to: Ordnance Survey (OSGB36) coordinate system and level data defined by Geoid model OSN15, based around 2 survey stations H1 & H2 with a scale factor of 1.00000

Head Office: Unit 2, Spireway Farm Orchard Way Dartford, Kent DA2 7ER Email: info@hooksurvey.com Tel: 01322 277221

Midlands Office: 42 Harrison Avenue Shipston-on-Strour Warwickshire CV36 4HS Email: info@hooksurvey.com Tel: 01606 523118

www.hooksurvey.com

THE SURVEY ASSOCIATION

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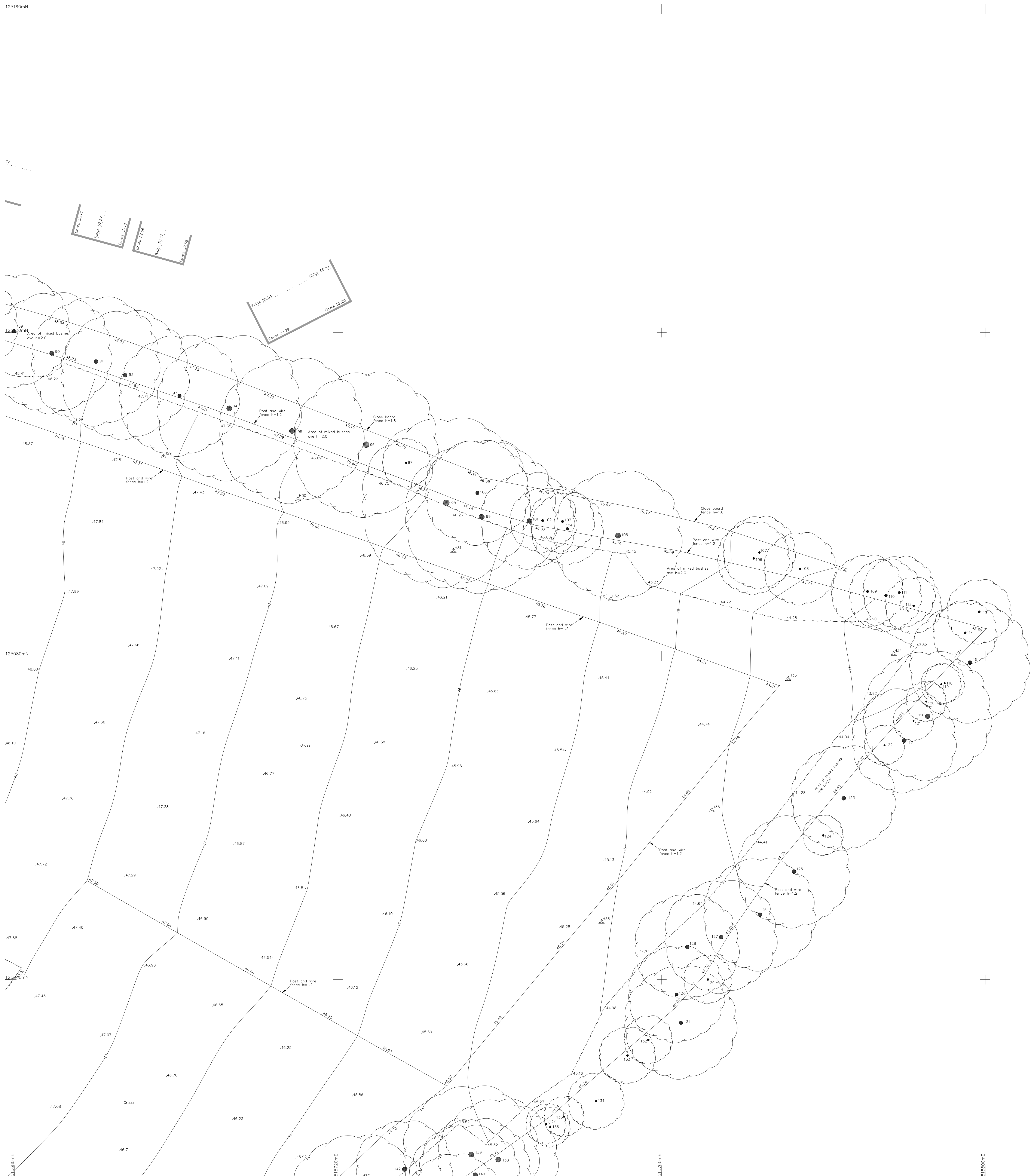
THE SURVEY ASSOCIATION

THE SURVEY ASSOCIATION

THE SURVEY ASSOCIATION

Tree Schedule							
1	Maple	d=0.25	h=7	123	Oak	d=0.5	h=15
2	Ash	d=0.25	h=7	124	Ash	d=0.25	h=12
3	Ash	d=0.1	h=5	125	Oak	d=0.5	h=15
4	Hawthorn	d=0.15	h=7	126	Oak	d=0.5	h=15
5	Maple	d=0.35	h=10	127	Oak	d=0.5	h=15
6	Ash	d=0.5	h=15	128	Oak	d=0.5	h=15
7	Ash	d=0.5	h=15	129	Maple	d=0.25	h=9
8	Maple	d=0.3	h=10	130	Oak	d=0.4	h=15
9	Oak	d=0.55	h=15	131	Oak	d=0.45	h=15
10	Oak	d=0.55	h=15	132	Maple	d=0.25	h=9
11	Sweet chestnut	d=0.25	h=10	133	Ash	d=0.25	h=10
12	Oak	d=0.55	h=15	134	Ash	d=0.25	h=10
13	Oak	d=0.65	h=15	135	Ash	d=0.2	h=10
14	Oak	d=0.6	h=15	136	Ash	d=0.2	h=10
15	Oak	d=0.5	h=15	137	Ash	d=0.2	h=10
16	Oak	d=0.45	h=15	138	Oak	d=0.65	h=15
17	Oak	d=0.55	h=15	139	Oak	d=0.65	h=15
18	Oak	d=0.7	h=15	140	Oak	d=0.6	h=15
19	Oak	d=0.6	h=15	141	Oak	d=0.6	h=15
20	Oak	d=0.4	h=15	142	Oak	d=0.55	h=15
21	Oak	d=0.6	h=12	143	Oak	d=0.55	h=15
22	Oak	d=0.6	h=12	144	Oak	d=0.45	h=15
23	Maple	d=0.25	h=10	145	Oak	d=0.45	h=12
24	Maple	d=0.25	h=10	146	Oak	d=0.65	h=15
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26	Oak	d=0.4	h=12	148	Oak	d=0.7	h=15
27	Oak	d=0.45	h=12	149	Oak	d=0.65	h=15
28	Copper beech	d=0.35	h=12	150	Oak	d=0.5	h=15
29	Ash	d=0.15	h=9	151	Oak	d=0.5	h=15
30	Ash	d=0.15	h=9	152	Maple	d=0.25	h=9
31	Oak	d=0.45	h=12	153	Oak	d=0.55	h=15
32	Oak	d=0.45	h=12	154	Oak	d=0.65	h=15
33	Sweet chestnut	d=0.35	h=8	155	Oak	d=0.4	h=12
34	Hawthorn	d=0.15	h=7	156	Oak	d=0.6	h=15
35	Sycamore	d=0.4	h=12	157	Maple	d=0.25	h=9
36	Sycamore	d=0.5	h=12	158	Maple	d=0.25	h=9
37	Sycamore	d=0.45	h=12	159	Oak	d=0.45	h=15
38	Sweet chestnut	d=0.35	h=10	160	Oak	d=0.6	h=15
39	Sweet chestnut	d=0.35	h=10	161	Hawthorn	d=0.7	h=15
40	Unknown	d=0.1	h=7	162	Hawthorn	d=0.15	h=5
41	Sweet chestnut	d=0.35	h=10	163	Hawthorn	d=0.2	h=5
42	Unknown	d=0.2	h=8	164	Hawthorn	d=0.2	h=5
43	Cypress	d=0.15	h=5	165	Oak	d=0.5	h=12
44	Cypress	d=0.15	h=5	166	Oak	d=0.5	h=12
45	Cypress	d=0.15	h=5	167	Oak	d=0.55	h=15
46	Unknown	d=0.15	h=7	168	Oak	d=0.65	h=15
47	Ash	d=0.15	h=7	169	Oak	d=0.75	h=15
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52	Oak	d=0.45	h=12	174	Hawthorn	d=0.25	h=7
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56	Oak	d=0.5	h=12	178	Hawthorn	d=0.65	h=15
57	Oak	d=0.5	h=12	179	Oak	d=0.45	h=15
58	Oak	d=0.45	h=12	180	Oak	d=0.45	h=15
59	Hawthorn	d=0.2	h=7	181	Oak	d=0.6	h=15
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62	Ash	d=0.15	h=8	184	Oak	d=0.6	h=15
63	Cypress	d=0.25	h=10	185	Oak	d=0.5	h=15
64	Cypress	d=0.25	h=10	186	Oak	d=0.75	h=15
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67	Cypress	d=0.15	h=10	189	Oak	d=0.55	h=15
68	Cypress	d=0.25	h=10	190	Oak	d=0.55	h=15
69	Oak	d=0.6	h=15	191	Oak	d=0.7	h=15
70	Hawthorn	d=0.2	h=7	192	Unknown	d=0.2	h=9
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72	Hawthorn	d=0.2	h=7	194	Oak	d=0.2	h=10
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74	Oak	d=0.65	h=15	196	Sycamore	d=0.3	h=11
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79	Oak	d=0.6	h=15	201	Cypress	d=0.1	h=7
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84	Oak	d=0.45	h=15	206	Eucalyptus	d=0.3	h=12
85	Oak	d=0.45	h=15	207	Eucalyptus	d=0.5	h=15
86	Hawthorn	d=0.15	h=6	208	Fruit	d=0.45	h=8
87	Hawthorn	d=0.15	h=6	209	Oak	d=0.75	h=15
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90	Oak	d=0.55	h=15	212	Maple	d=0.2	h=8
91	Oak	d=0.5	h=15	213	Maple	d=0.2	h=8
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105	Oak	d=0.65	h=15	227	Maple	d=0.15	h=7
106	Oak	d=0.25	h=10	228	Maple	d=0.15	h=7
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108	Oak	d=0.25	h=10	230	Fruit	d=0.25	h=8
109	Ash	d=0.3	h=12	231	Ash	d=0.35	h=12
110	Ash	d=0.3	h=12	232	Pine	d=0.25	h=9
111	Ash	d=0.3	h=12	233	Copper beech	d=0.25	h=8
112	Ash	d=0.25	h=10	234	Silver birch	d=0.2	h=5
113	Ash	d=0.3	h=12	235	Cypress	d=0.25	h=6
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115	Oak	d=0.5	h=15	237	Fruit	d=0.4	h=4
116	Oak	d=0.6	h=15	238	Eucalyptus	d=0.6	h=15
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118	Maple	d=0.2	h=9	240	Ash	d=0.3	h=12
119	Maple	d=0.2	h=9	241	Cherry	d=0.1	h=1
120	Maple	d=0.2	h=9	242	Ash	d=0.45	h=15
121	Maple	d=0.2	h=9	243	Ash	d=0.45	h=15
122	Maple	d=0.2	h=9	244	Ash	d=0.45	h=15
				245	Fruit	d=0.45	h=6

325160mN



Survey control

Stn	Easting	Northing	Height
H1	515631.402	125306.662	51.279
H2	515610.500	125318.733	52.165
H3	515607.696	125301.209	52.155
H4	515604.855	125274.985	52.134
H5	515602.762	125240.960	52.094
H6	515594.430	125215.895	52.107
H7	515597.144	125169.903	51.551
H8	515607.486	125134.666	50.966
H9	515604.441	125090.777	50.044
H10	515596.289	125060.655	49.357
H11	515578.550	125027.853	48.700
H12	515557.561	125009.616	48.201
H13	515537.523	124982.071	47.187
H14	515511.502	124946.048	46.193
H15	515492.567	124913.525	45.644
H16	515482.774	124894.551	45.428
H17	515442.210	124817.735	44.160
H18	515422.716	124731.426	43.424
H19	515605.249	125006.412	47.936
H20	515594.530	125027.180	48.845
H21	515604.561	125044.996	49.342
H22	515614.028	125025.112	48.671
H23	515631.493	125062.966	49.893
H24	515619.861	125132.515	51.071
H25	515640.040	125126.058	50.382
H26	515640.070	125133.077	48.859
H27	515666.718	125118.248	48.978
H28	515687.432	125106.761	48.024
H29	515696.422	125104.671	47.542
H30	515715.044	125099.368	46.871
H31	515734.280	125093.007	46.117
H32	515753.728	125087.001	45.450
H33	515775.659	125077.174	44.247
H34	515788.697	125080.262	43.866
H35	515766.209	125060.921	44.526
H36	515752.584	125047.121	45.054
H37	515722.890	125015.307	45.791
H38	515695.163	124986.938	45.705
H39	515675.203	124963.687	45.336
H40	515658.614	124941.155	44.725
H41	515641.701	124912.266	44.238
H42	515616.093	124864.472	42.868
H43	515588.228	124876.364	43.949
H44	515560.190	124863.402	44.439
H45	515546.368	124891.303	44.989
H46	515528.761	124895.862	45.504
H47	515510.638	124903.084	45.670
H48	515518.275	124931.629	46.716
H49	515547.411	124970.251	47.439
H50	515572.902	124952.947	46.718
H51	515601.861	124947.143	46.131
H52	515621.399	124951.487	45.899
H53	515634.227	124974.074	46.255
H54	515616.115	124989.005	46.931
H55	515608.703	124970.804	46.909
H56	515597.138	124970.108	47.078
H57	515578.714	125006.010	48.479
H58	515583.394	124962.595	47.004
H59	515572.927	124972.029	47.563
H60	515562.324	124968.221	47.523
H61	515549.647	124975.111	47.523
H62	515561.059	124966.660	48.070
H63	515572.718	125002.735	48.356
H64	515581.640	125017.040	48.765
H65	515581.547	124963.842	47.547

Tree Schedule

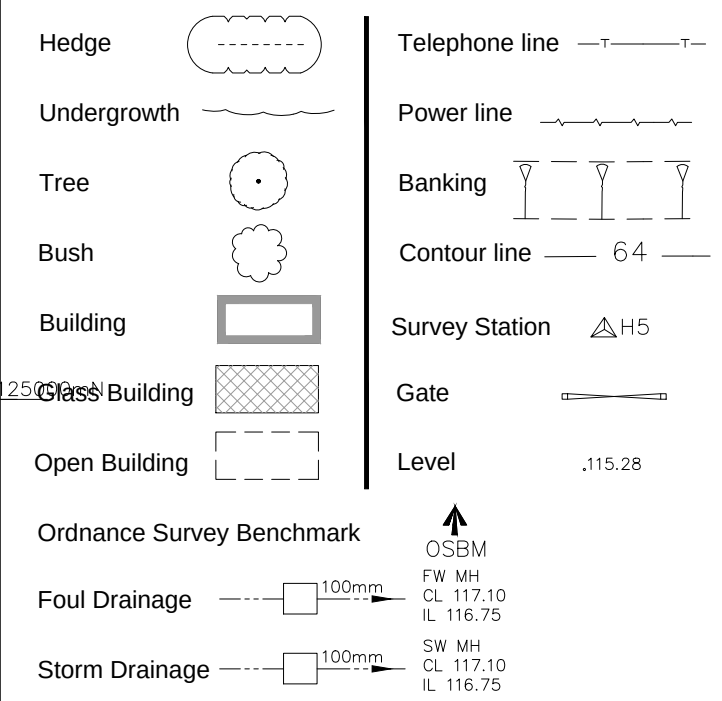
1	Maple	d=0.25	h=7	123	Oak	d=0.5	h=15
2	Ash	d=0.25	h=7	124	Ash	d=0.5	h=12
3	Ash	d=0.1	h=6	125	Oak	d=0.5	h=15
4	Hawthorn	d=0.15	h=7	126	Oak	d=0.5	h=15
5	Maple	d=0.35	h=10	127	Oak	d=0.5	h=15
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8	Maple	d=0.3	h=10	130	Oak	d=0.4	h=15
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28	Copper beech	d=0.35	h=12	150	Maple	d=0.5	h=15
29	Ash	d=0.15	h=9	151	Oak	d=0.5	h=15
30	Ash	d=0.15	h=9	152	Maple	d=0.25	h=9
31	Oak	d=0.45	h=12	153	Oak	d=0.55	h=15
32	Oak	d=0.45	h=12	154	Oak	d=0.65	h=15
33	Sweet chestnut	d=0.35	h=10	155	Oak	d=0.4	h=12
34	Hawthorn	d=0.15	h=7	156	Oak	d=0.6	h=15
35	Sycamore	d=0.4	h=12	157	Maple	d=0.25	h=9
36	Sycamore	d=0.5	h=12	158	Maple	d=0.25	h=9
37	Sycamore	d=0.45	h=12	159	Oak	d=0.45	h=15
38	Sweet chestnut	d=0.35	h=10	160	Oak	d=0.6	h=15
39	Sweet chestnut	d=0.35	h=10	161	Hawthorn	d=0.2	h=7
40	Unknown	d=0.1	h=7	162	Hawthorn	d=0.15	h=5
41	Sweet chestnut	d=0.35	h=10	163	Hawthorn	d=0.2	h=5
42	Unknown	d=0.2	h=8	164	Hawthorn	d=0.2	h=5
43	Cypress	d=0.15	h=8	165	Oak	d=0.5	h=12
44	Cypress	d=0.15	h=8	166	Oak	d=0.45	h=12
45	Cypress	d=0.15	h=8	167	Oak	d=0.55	h=15
46	Unknown	d=0.15	h=7	168	Oak	d=0.65	h=15
47	Ash	d=0.15	h=7	169	Oak	d=0.75	h=15
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49	Ash	d=0.2	h=10	171	Fruit	d=0.3	h=6
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52	Oak	d=0.45	h=12	174	Hawthorn	d=0.5	h=15
53	Oak	d=0.45	h=12	175	Unknown	d=0.35	h=10
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57	Oak	d=0.45	h=12	179	Oak	d=0.5	h=15
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61	Hazel	multibole	h=6	183	Oak	d=0.45	h=15
62	Ash	d=0.15	h=7	184	Oak	d=0.2	h=10
63	Cypress	d=0.25	h=10	185	Oak	d=0.5	h=15
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67	Cypress	d=0.15	h=10	189	Oak	d=0.5	h=15
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69	Oak	d=0.25	h=10	191	Oak	d=0.7	h=15
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71	Hawthorn	d=0.2	h=7	193	Oak	d=0.75	h=15
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86	Hawthorn	d=0.15	h=6	208	Fruit	d=0.45	h=8
87	Hawthorn	d=0.15	h=6	209	Oak	d=0.75	h=15
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91	Oak	d=0.5	h=15	213	Maple	d=0.2	h=8
92	Oak	d=0.5	h=15	214	Sweet chestnut	d=0.2	h=10
93	Oak	d=0.45	h=15	215	Maple	d=0.2	h=8
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110	Ash	d=0.3	h=12	232	Pine	d=0.25	h=9
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117	Oak	d=0.5	h=15	239	Oak	d=1	h=15
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119	Maple	d=0.2	h=9	241	Cherry	d=0.1	h=3
120	Maple	d=0.2	h=9	242	Ash	d=0.45	h=15
121	Maple	d=0.2	h=9	243	Ash	d=0.45	h=15
122	Maple	d=0.2	h=9	244	Ash	d=0.45	h=15
				245	Fruit	d=0.45	h=6

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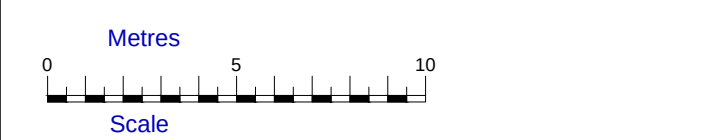
Hook Survey Legend

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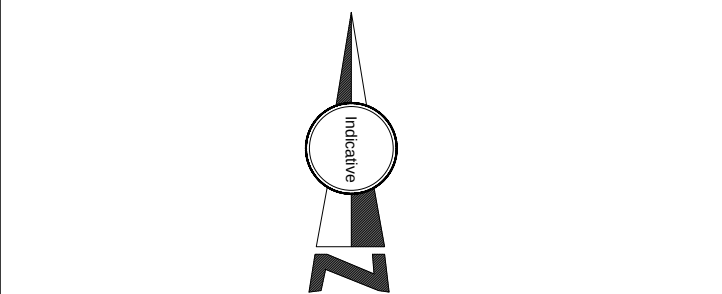
Hook Survey Legend



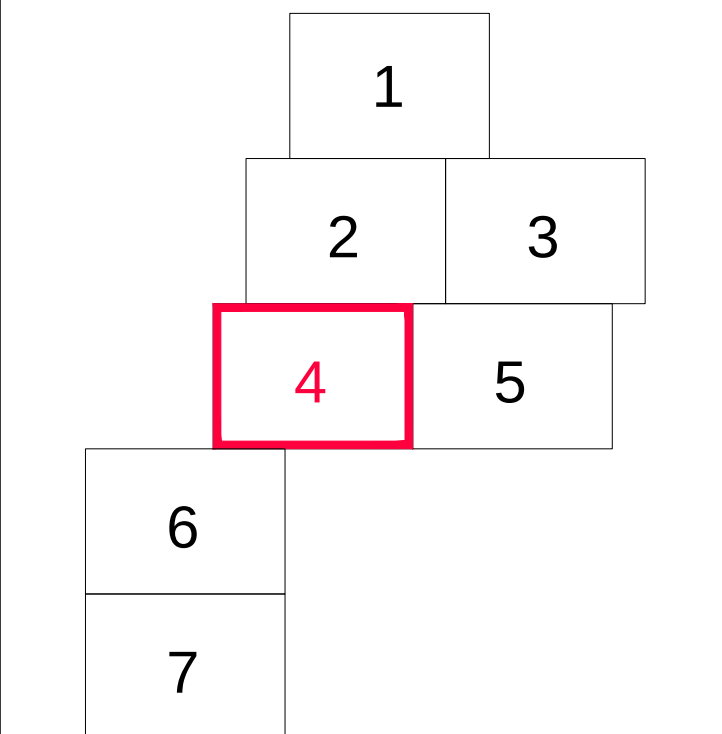
Abbreviations	
Animal Set	Sett
Air Valve	AV
Borehole	BH
Bus Stop	BS
Cover Level	CL
Earth Rod	ER
Electricity Pole	EP
Fire Hydrant	FH
Inspection Cover	IC
Invert Level	IL
Lamp Post	LP
Manhole	MH
Marker	MK
Name Plate	RNP
Power Pole	PP
Rain water Pipe	RWP
Road Sign	RS
Roading Eye	RE
Reinforced Steel Joint	RSJ
Soil Vent Pipe	SVP
Stop Valve	SV
Survey Station	STN
Telegraph Pole	TP
Tree Stump	Stump
Trial Hole	TH
Unable To Lift	UTL
Vent Pipe	VP
Water Valve	WV



All trees are identified where possible. Species, spread, height and girth are indicative only.
Drainage has been surveyed where found, and traced where possible.
Eaves and ridge heights of surrounding buildings have been surveyed where possible.



Sheet Layout



HOOK SURVEY PARTNERSHIP

Land & Building Surveyors
www.hooksurvey.com

Project: Woodfords, Shipley Road, Southwater, RH13 9BG

Client: Reside Developments Ltd

Drawing title: Topographical Survey

Job No.: S197188
Scale: 1:200
Dwg No.: S197188/04
Date: July 2019
Revision: D.S.

Grid & Levels related to :
Ordnance Survey (OSGB36) coordinate system and level data defined by Geoid model OS1915, based around 2 survey stations H1 & H2 with a scale factor of 1.00000

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THE SURVEY ASSOCIATION

Survey control			
Stn	Easting	Northing	Height
H1	515631.402	125305.662	51.279
H2	515610.500	125318.733	52.165
H3	515607.696	125301.209	52.155
H4	515604.855	125274.985	52.134
H5	515602.762	125249.960	52.094
H6	515594.430	125215.895	52.107
H7	515597.144	125139.903	51.551
H8	515607.488	125134.666	50.966
H9	515604.441	125090.777	50.044
H10	515595.289	125060.655	49.257
H11	515578.550	125027.933	48.720
H12	515597.561	125009.616	48.201
H13	515537.523	124982.071	47.187
H14	515531.502	124946.048	46.193
H15	515492.567	124913.525	45.644
H16	515485.774	124894.551	45.428
H17	515442.219	124817.735	44.160
H18	515422.716	124731.426	43.424
H19	515605.249	125005.417	47.836
H20	515594.530	125027.180	48.845
H21	515604.561	125044.996	48.342
H22	515614.026	125055.112	48.671
H23	515631.493	125082.966	49.893
H24	515619.861	125132.515	51.071
H25	515640.040	125135.058	50.382
H26	515649.070	125123.077	49.859
H27	515686.718	125118.248	48.978
H28	515687.452	125108.761	48.024
H29	515698.422	125104.671	47.542
H30	515715.044	125093.368	46.871
H31	515734.280	125093.007	46.117
H32	515753.728	125087.001	45.450
H33	515775.659	125077.174	44.247
H34	515788.697	125060.252	43.866
H35	515766.209	125060.921	44.526
H36	515752.584	125047.121	45.054
H37	515722.890	125015.307	45.701
H38	515695.163	124986.938	45.705
H39	515675.203	124963.687	45.336
H40	515665.614	124941.155	44.725
H41	515641.701	124912.906	44.238
H42	515616.093	124884.472	42.868
H43	515585.226	124876.354	43.949
H44	515568.190	124883.402	44.439
H45	515546.368	124891.303	44.989
H46	515525.761	124895.862	45.504
H47	515510.638	124903.084	45.870
H48	515515.275	124912.629	46.718
H49	515547.411	124970.251	47.439
H50	515572.902	124952.847	46.718
H51	515601.861	124947.143	46.131
H52	515621.399	124951.487	45.889
H53	515634.227	124974.074	46.255
H54	515616.115	124989.005	46.931
H55	515605.703	124970.804	46.909
H56	515597.138	124970.108	47.078
H57	515575.714	125006.010	48.479
H58	515583.394	124982.556	47.004
H59	515572.927	124972.029	47.563
H60	515562.324	124968.221	47.523
H61	515549.647	124975.111	47.523
H62	515561.059	124989.660	48.070
H63	515572.716	125002.735	48.556
H64	515581.640	125017.040	48.765
H65	515581.547	124983.842	47.647





Survey control			
Stn	Easting	Northing	Height
H1	515631.402	125305.662	51.279
H2	515610.500	125318.733	52.165
H3	515607.896	125301.209	52.155
H4	515604.855	125274.985	52.134
H5	515602.762	125249.960	52.094
H6	515594.430	125215.995	52.107
H7	515597.144	125169.903	51.551
H8	515607.488	125134.666	50.966
H9	515604.441	125090.777	50.044
H10	515596.289	125060.655	49.557
H11	515578.550	125027.933	48.720
H12	515557.561	125009.616	48.201
H13	515537.523	124982.071	47.187
H14	515511.502	124946.048	46.193
H15	515492.567	124913.525	45.644
H16	515467.714	124884.551	45.428
H17	515442.219	124817.735	44.160
H18	515422.716	124731.426	43.424
H19	515605.249	125006.412	47.936
H20	515594.530	125027.180	48.845
H21	515604.561	125044.996	49.342
H22	515614.028	125025.112	48.571
H23	515631.493	125082.966	49.893
H24	515619.861	125132.515	51.071
H25	515640.040	125139.958	50.382
H26	515649.070	125123.077	49.859
H27	515666.718	125118.248	48.978
H28	515687.432	125108.761	48.024
H29	515698.422	125104.671	47.542
H30	515715.044	125099.368	46.871
H31	515714.280	125093.007	46.117
H32	515753.728	125087.001	45.450
H33	515775.659	125077.174	44.247
H34	515788.697	125080.262	43.866
H35	515766.209	125060.921	44.526
H36	515752.584	125047.121	45.054
H37	515722.890	125015.307	45.791
H38	515695.163	124988.938	45.705
H39	515675.203	124963.687	45.336
H40	515658.614	124941.155	44.725
H41	515641.701	124912.906	44.238
H42	515616.093	124864.472	42.868
H43	515598.228	124876.364	43.949
H44	515568.190	124883.402	44.439
H45	515546.368	124891.303	44.969
H46	515528.761	124896.862	45.504
H47	515510.638	124903.084	45.870
H48	515518.275	124931.629	46.716
H49	515547.411	124970.251	47.439
H50	515572.902	124952.847	46.718
H51	515601.861	124947.143	46.131
H52	515621.399	124951.487	45.899
H53	515634.227	124974.074	46.255
H54	515616.115	124989.005	46.931
H55	515608.703	124970.304	46.909
H56	515597.138	124970.108	47.078
H57	515578.714	125006.010	48.479
H58	515563.394	124962.596	47.004
H59	515572.927	124972.029	47.563
H60	515562.324	124966.221	47.523
H61	515549.647	124975.111	47.523
H62	515561.059	124989.660	48.070
H63	515572.718	125002.735	48.356
H64	515551.640	125017.040	48.765
H65	515581.547	124983.842	47.647

Tree Schedule							
1	Maple	d=0.25	h=7	123	Oak	d=0.5	h=15
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4	Hawthorn	d=0.15	h=7	126	Oak	d=0.5	h=15
5	Maple	d=0.35	h=10	127	Oak	d=0.5	h=15
6	Ash	d=0.5	h=15	128	Oak	d=0.5	h=15
7	Ash	d=0.5	h=15	129	Maple	d=0.25	h=9
8	Maple	d=0.3	h=10	130	Oak	d=0.4	h=15
9	Oak	d=0.55	h=15	131	Oak	d=0.45	h=15
10	Oak	d=0.55	h=15	132	Maple	d=0.25	h=9
11	Sweet chestnut	d=0.25	h=10	133	Ash	d=0.25	h=10
12	Oak	d=0.55	h=15	134	Ash	d=0.25	h=10
13	Oak	d=0.65	h=15	135	Ash	d=0.2	h=10
14	Oak	d=0.6	h=15	136	Oak	d=0.65	h=15
15	Oak	d=0.5	h=12	137	Oak	d=0.65	h=15
16	Oak	d=0.45	h=15	138	Oak	d=0.65	h=15
17	Oak	d=0.55	h=15	139	Oak	d=0.65	h=15
18	Oak	d=0.7	h=15	140	Oak	d=0.6	h=15
19	Oak	d=0.6	h=15	141	Oak	d=0.6	h=15
20	Oak	d=0.4	h=15	142	Oak	d=0.55	h=15
21	Oak	d=0.6	h=12	143	Oak	d=0.55	h=15
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24	Maple	d=0.25	h=10	146	Oak	d=0.65	h=15
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26	Oak	d=0.4	h=12	148	Oak	d=0.7	h=15
27	Oak	d=0.45	h=12	149	Oak	d=0.5	h=15
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42	Unknown	d=0.2	h=8	164	Hawthorn	d=0.2	h=7
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46	Unknown	d=0.15	h=7	168	Oak	d=0.65	h=15
47	Ash	d=0.15	h=7	169	Oak	d=0.75	h=15
48	Ash	d=0.15	h=7	170	Fruit	d=0.3	h=6
49	Ash	d=0.2	h=10	171	Fruit	d=0.3	h=6
50	Oak	d=0.45	h=12	172	Oak	d=0.5	h=12
51	Ash	d=0.2	h=10	173	Hawthorn	d=0.25	h=7
52	Oak	d=0.45	h=12	174	Hawthorn	d=0.25	h=7
53	Oak	d=0.45	h=12	175	Unknown	d=0.35	h=10
54	Hawthorn	d=0.2	h=7	176	Oak	d=0.65	h=15
55	Ash	d=0.3	h=10	177	Oak	d=0.65	h=15
56	Oak	d=0.45	h=12	178	Hawthorn	d=0.25	h=7
57	Oak	d=0.5	h=12	179	Oak	d=0.45	h=15
58	Oak	d=0.45	h=12	180	Oak	d=0.45	h=15
59	Hawthorn	d=0.2	h=7	181	Oak	d=0.6	h=15
60	Ash	d=0.2	h=10	182	Oak	d=0.6	h=15
61	Hazel	d=0.15	h=6	183	Oak	d=0.45	h=15
62	multibole	d=0.15	h=6	184	Oak	d=0.6	h=15
63	Cypress	d=0.25	h=10	185	Oak	d=0.5	h=15
64	Cypress	d=0.25	h=10	186	Oak	d=0.75	h=15
65	Cypress	d=0.15	h=10	187	Oak	d=0.6	h=15
66	Cypress	d=0.2	h=10	188	Oak	d=0.6	h=12
67	Cypress	d=0.15	h=10	189	Oak	d=0.55	h=15
68	Cypress	d=0.25	h=10	190	Oak	d=0.6	h=15
69	Oak	d=0.65	h=15	191	Oak	d=0.7	h=15
70	Hawthorn	d=0.2	h=7	192	Unknown	d=0.2	h=9
71	Hawthorn	d=0.2	h=7	193	Oak	d=0.75	h=15
72	Hawthorn	d=0.2	h=7	194	Oak	d=0.2	h=10
73	Oak	d=0.55	h=15	195	Unknown	d=0.2	h=9
74	Oak	d=0.65	h=15	196	Sycamore	d=0.3	h=11
75	Oak	d=0.6	h=15	197	Cypress	d=0.1	h=7
76	Oak	d=0.6	h=15	198	Cypress	d=0.1	h=7
77	Ash	d=0.2	h=10	199	Cypress	d=0.1	h=7
78	Hawthorn	d=0.2	h=7	200	Cypress	d=0.1	h=7
79	Oak	d=0.6	h=15	201	Cypress	d=0.1	h=7
80	Ash	d=0.15	h=8	202	Cypress	d=0.1	h=7
81	Ash	d=0.15	h=8	203	Cypress	d=0.1	h=7
82	Oak	d=0.7	h=15	204	Cypress	d=0.1	h=7
83	Oak	d=0.6	h=15	205	Eucalyptus	d=0.15	h=12
84	Oak	d=0.45	h=15	206	Eucalyptus	d=0.3	h=12
85	Oak	d=0.45	h=15	207	Eucalyptus	d=0.5	h=15
86	Hawthorn	d=0.15	h=6	208	Fruit	d=0.45	h=9
87	Hawthorn	d=0.15	h=6	209	Oak	d=0.75	h=15
88	Hawthorn	d=0.15	h=6	210	Cypress	d=0.45	h=10
89	Oak	d=0.15	h=15	211	Pine	d=0.45	h=12
90	Oak	d=0.55	h=15	212	Maple	d=0.2	h=8
91	Oak	d=0.5	h=15	213	Maple	d=0.2	h=8
92	Oak	d=0.5	h=15	214	Sweet chestnut	d=0.2	h=10
93	Oak	d=0.45	h=15	215	Maple	d=0.2	h=8
94	Oak	d=0.65	h=15	216	Maple	d=0.2	h=8
95	Oak	d=0.65	h=15	217	Maple	d=0.2	h=8
96	Oak	d=0.75	h=15	218	Sweet chestnut	d=0.2	h=10
97	Unknown	d=0.2	h=9	219	Sweet chestnut	d=0.15	h=8
98	Oak	d=0.75	h=15	220	Maple	d=0.15	h=8
99	Oak	d=0.6	h=15	221	Maple	d=0.15	h=8
100	Oak	d=0.45	h=15	222	Maple	d=0.15	h=8
101	Oak	d=0.55	h=15	223	Maple	d=0.15	h=8
102	Oak	d=0.3	h=10	224	Maple	d=0.15	h=8
103	Oak	d=0.3	h=10	225	Maple	d=0.2	h=9
104	Oak	d=0.35	h=10	226	Maple	d=0.15	h=7
105	Oak	d=0.65	h=15	227	Maple	d=0.15	h=7
106	Oak	d=0.6	h=15	228	Maple	d=0.15	h=7
107	Oak	d=0.25	h=10	229	Maple	d=0.25	h=8
108	Oak	d=0.25	h=10	230	Fruit	d=0.25	h=8
109	Ash	d=0.3	h=12	231	Fruit	d=0.25	h=8
110	Ash	d=0.3	h=12	232	Pine	d=0.25	h=8
111	Ash	d=0.3	h=12	233	Copper beech	d=0.25	h=8
112	Ash	d=0.25	h=10	234	Silver birch	d=0.25	h=8
113	Ash	d=0.3	h=12	235	Cypress	d=0.25	h=8
114	Ash	d=0.3	h=12	236	Cypress	d=0.1	h=5
115	Oak	d=0.5	h=15	237	Fruit	d=0.4	h=4
116	Oak	d=0.6	h=15	238	Ash	d=0.6	h=15
117	Oak	d=0.5	h=15	239	Oak	d=1	h=15
118	Oak	d=0.6	h=15	240	Ash	d=0.3	h=12
119	Maple	d=0.2	h=9	241	Cherry	d=0.1	h=3
120	Maple	d=0.2	h=9	242	Ash	d=0.45	h=15
121	Maple	d=0.2	h=9	243	Ash	d=0.45	h=15
122	Maple	d=0.2	h=9	244	Ash	d=0.45	h=15
				245	Fruit	d=0.45	h=6

Animal Sett	Sett
Air Valve	AV
Borehole	BH
Bus Stop	BS
Cover Level	CL
Earth Rod	ER
Electricity Pole	EP
Fire Hydrant	FH
Inspection Cover	IC
Invert Level	IL
Lamp Post	LP
Manhole	MH
Marker	MK
Name Plate	RNP
Power Pole	PP
Rain water Pipe	RWP
Road Sign	RS
Rodding Eye	RE
Reinforced Steel Joint	RSJ
Soil Vent Pipe	STP
Stop Valve	SV
Survey Station	SS
Telegraph Pole	TP
Tree Stump	ST
Trial Hole	TH
Unable To Lift	UTL
Vent Pipe	VP
Water Valve	WV



All trees are identified where possible. Species, spread, height and girth are indicative only.

Drainage has been surveyed where found, and traced where possible.

Eaves and ridge heights of surrounding buildings have been surveyed where possible.



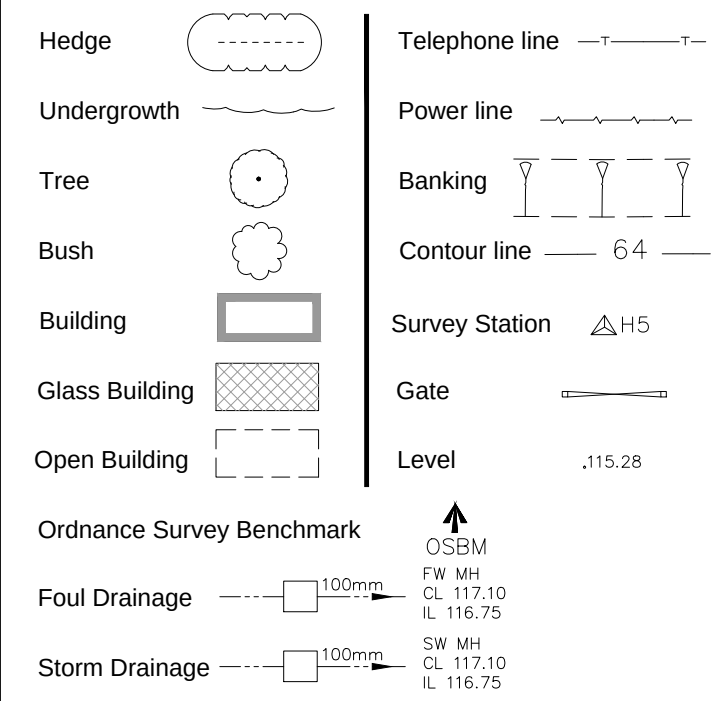
A diagram of a staircase with 7 steps, numbered 1 to 7. Step 6 is highlighted with a red border.

2	Maple	d=0.25	h=7	123	Oak	h=5	hr=15
3	Ash	d=0.25	h=7	124	Ash	d=0.25	hr=12
4	Ash	d=0.25	h=7	125	Oak	d=0.25	hr=15
5	Hawthorn	d=0.15	h=7	126	Oak	h=5	hr=15
6	Maple	d=0.15	h=10	127	Oak	d=0.15	hr=15
7	Ash	d=0.15	h=10	128	Oak	d=0.15	hr=15
8	Ash	d=0.5	h=15	129	Oak	d=0.5	hr=15
9	Ash	d=0.5	h=15	130	Maple	d=0.25	hr=9
10	Ash	d=0.55	h=15	131	Oak	d=0.45	hr=15
11	Oak	d=0.55	h=15	132	Maple	d=0.45	hr=9
12	Sweet chestnut	d=0.25	h=10	133	Ash	d=0.25	hr=10
13	Oak	d=0.35	h=13	134	Ash	d=0.25	hr=10
14	Oak	d=0.65	h=15	135	Ash	d=0.65	hr=15
15	Oak	d=0.65	h=15	136	Ash	d=0.2	hr=10
16	Oak	d=0.65	h=15	137	Oak	d=0.65	hr=15
17	Oak	d=0.65	h=15	138	Oak	d=0.65	hr=15
18	Oak	d=0.7	h=15	140	Oak	d=0.6	hr=15
19	Oak	d=0.6	h=15	141	Oak	d=0.6	hr=15
20	Oak	d=0.4	h=14	142	Oak	d=0.05	hr=15
21	Oak	d=0.6	h=12	143	Oak	d=0.55	hr=15
22	Oak	d=0.6	h=12	144	Oak	d=0.55	hr=15
23	Maple	d=0.25	h=10	145	Oak	d=0.45	hr=12
24	Maple	d=0.25	h=10	146	Oak	d=0.65	hr=15
25	Maple	d=0.4	h=12	147	Oak	d=0.05	hr=15
26	Oak	d=0.4	h=12	148	Oak	d=0.7	hr=15
27	Oak	d=0.4	h=12	149	Oak	d=0.7	hr=15
28	Copper beech	d=0.35	h=12	150	Oak	d=0.5	hr=15
29	Ash	d=0.4	h=9	151	Oak	d=0.4	hr=15
30	Ash	d=0.15	h=9	152	Maple	d=0.25	hr=9
31	Oak	d=0.45	h=12	153	Oak	d=0.55	hr=15
32	Oak	d=0.45	h=12	154	Oak	d=0.55	hr=15
33	Sweet chestnut	d=0.35	h=8	155	Oak	d=0.4	hr=12
34	Hawthorn	d=0.35	h=8	156	Oak	d=0.6	hr=15
35	Sycamore	d=0.4	h=12	157	Maple	d=0.25	hr=9
36	Sycamore	d=0.5	h=12	158	Maple	d=0.25	hr=9
37	Sycamore	d=0.5	h=12	159	Maple	d=0.25	hr=9
38	Sweet chestnut	d=0.35	h=10	160	Oak	d=0.6	hr=15
39	Sweet chestnut	d=0.35	h=10	161	Hawthorn	d=0.35	hr=15
40	Unknown	d=0.1	h=7	162	Oak	d=0.15	hr=5
41	Sweet chestnut	d=0.35	h=7	163	Hawthorn	d=0.35	hr=15
42	Unknown	d=0.2	h=8	164	Hawthorn	d=0.2	hr=5
43	Cypress	d=0.15	h=5	165	Oak	d=0.5	hr=12
44	Cypress	d=0.15	h=5	166	Oak	d=0.5	hr=12
45	Cypress	d=0.15	h=5	167	Oak	d=0.55	hr=15
46	Unknown	d=0.15	h=5	168	Oak	d=0.65	hr=15
47	Ash	d=0.15	h=7	169	Oak	d=0.75	hr=15
48	Ash	d=0.15	h=7	170	Fruit	d=0.3	hr=5
49	Ash	d=0.2	h=10	171	Fruit	d=0.3	hr=5
50	Oak	d=0.2	h=12	172	Oak	d=0.5	hr=12
51	Oak	d=0.2	h=10	173	Oak	d=0.75	hr=15
52	Oak	d=0.45	h=12	174	Hawthorn	d=0.25	hr=7
53	Oak	d=0.45	h=12	175	Unknown	d=0.35	hr=7
54	Hawthorn	d=0.4	h=12	176	Oak	d=0.05	hr=15
55	Ash	d=0.3	h=10	177	Oak	d=0.65	hr=15
56	Oak	d=0.4	h=12	178	Hawthorn	d=0.7	hr=15
57	Oak	d=0.5	h=12	179	Oak	d=0.45	hr=15
58	Oak	d=0.5	h=12	180	Oak	d=0.45	hr=15
59	Hawthorn	d=0.2	h=7	181	Oak	d=0.6	hr=15
60	Ash	d=0.2	h=8	182	Oak	d=0.6	hr=15
61	Hazel	d=0.6	h=18	183	Oak	d=0.45	hr=15

Pin	Address	North	Height
H1	516631.020	128305.662	51.279
H2	516630.985	128305.662	51.279
H3	516604.895	125301.209	52.134
H4	516604.895	125279.985	52.134
H5	516604.895	125279.985	52.134
H6	516604.895	125279.985	52.134
H7	516594.430	125215.895	51.501
H8	516594.430	125169.903	51.501
H9	516594.430	125169.903	51.501
H10	516594.430	125169.903	51.501
H11	516594.430	125169.903	51.501
H12	516557.561	125090.777	48.201
H13	516557.561	125090.777	48.201
H14	516557.561	125090.777	48.201
H15	516557.561	125090.777	48.201
H16	516557.561	125090.777	48.201
H17	516542.567	124931.525	46.442
H18	516422.774	124894.551	45.428
H19	516422.774	124894.551	45.428
H20	516422.774	124894.551	45.428
H21	516422.774	124894.551	45.428
H22	516422.774	124894.551	45.428
H23	516422.774	124894.551	45.428
H24	516422.774	124894.551	45.428
H25	516422.774	124894.551	45.428
H26	516404.001	125121.535	51.071
H27	516404.001	125121.535	51.071
H28	516404.001	125121.535	51.071
H29	516404.001	125121.535	51.071
H30	516404.001	125121.535	51.071
H31	516404.001	125121.535	51.071
H32	516404.001	125121.535	51.071
H33	516404.001	125121.535	51.071
H34	516404.001	125121.535	51.071
H35	516404.001	125121.535	51.071
H36	516404.001	125121.535	51.071
H37	516404.001	125121.535	51.071
H38	516404.001	125121.535	51.071
H39	516404.001	125121.535	51.071
H40	516404.001	125121.535	51.071
H41	516404.001	125121.535	51.071
H42	516404.001	125121.535	51.071
H43	516404.001	125121.535	51.071
H44	516404.001	125121.535	51.071
H45	516404.001	125121.535	51.071
H46	516404.001	125121.535	51.071
H47	516404.001	125121.535	51.071
H48	516404.001	125121.535	51.071
H49	516404.001	125121.535	51.071
H50	516404.001	125121.535	51.071
H51	516601.861	124947.134	46.131
H52	516601.861	124947.134	46.131
H53	516601.861	124947.134	46.131
H54	516601.861	124947.134	46.131
H55	516601.861	124947.134	46.131
H56	516601.861	124947.134	46.131
H57	516601.861	124947.134	46.131
H58	516601.861	124947.134	46.131
H59	516601.861	124947.134	46.131
H60	516601.861	124947.134	46.131
H61	516601.861	124947.134	46.131
H62	516601.861	124947.134	46.131
H63	516601.861	124947.134	46.131
H64	516601.861	124947.134	46.131
H65	516601.861	124947.134	46.131
H66	516601.861	124947.134	46.131
H67	516601.861	124947.134	46.131
H68	516601.861	124947.134	46.131
H69	516601.861	124947.134	46.131
H70	516601.861	124947.134	46.131
H71	516601.861	124947.134	46.131
H72	516601.861	124947.134	46.131
H73	516601.861	124947.134	46.131
H74	516601.861	124947.134	46.131
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H76	516601.861	124947.134	46.131
H77	516601.861	12494	

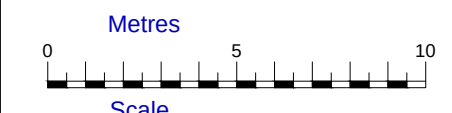
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Hook Survey Legend



Abbreviations

Animal Set	Sett
Air Valve	AV
Borehole	BH
Bus Stop	BS
Cover Level	CL
Earth Rod	ER
Electricity Pole	EP
Fire Hydrant	FH
Inspection Cover	IC
Invert Level	IL
Lamp Post	LP
Manhole	MH
Marker	MK
Name Plate	RNP
Power Pole	PP
Rainwater Pipe	RWP
Road Sign	RS
Rodding Eye	RE
Reinforced Steel Joint	RSJ
Soil Vent Pipe	SVP
Stop Valve	SV
Survey Station	STN
Telegraph Pole	TP
Tree Stump	Stump
Trial Hole	TH
Unable To Lift	UTL
Vent Pipe	VP
Water Valve	WV



Notes

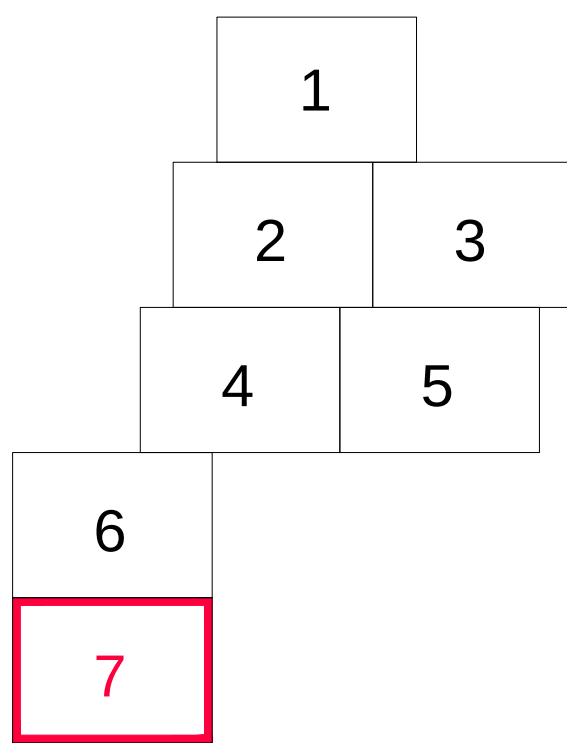
All trees are identified where possible. Species, signal, height and girth are indicative only.

Drainage has been surveyed where found, and traced where possible.

Eaves and ridge heights of surrounding buildings have been surveyed where possible.



Sheet Layout



HOOK SURVEY PARTNERSHIP
Land & Building Surveyors
www.hooksurvey.com

Project :
Woodfords, Shipley Road,
Southwater, RH13 9BG

Client :
Reside Developments Ltd

Drawing title :
Topographical Survey

Job No : S19/7188
Dwg No : S19/7188/07
Revision : -

Scale : 1:200
Date : July 2019
Drawn by : D.S.

Grid & Levelling related to :
Ordnance Survey (OSGB36) coordinate system and level data defined by Geoid model OSTN15, based around 2 survey stations H1 & H2 with a scale factor of 1.00000

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Tel : 01606 523118

www.hooksurvey.com

Tree Schedule

1	Maple	d=0.25	h=7	123	Oak	d=0.5	h=15
2	Ash	d=0.25	h=7	124	Ash	d=0.25	h=12
3	Ash	d=0.1	h=6	125	Oak	d=0.5	h=15
4	Hawthorn	d=0.15	h=7	126	Oak	d=0.5	h=15
5	Maple	d=0.35	h=10	127	Oak	d=0.5	h=15
6	Ash	d=0.5	h=15	128	Oak	d=0.5	h=15
7	Ash	d=0.5	h=15	129	Maple	d=0.25	h=9
8	Maple	d=0.3	h=10	130	Oak	d=0.4	h=15
9	Oak	d=0.55	h=15	131	Oak	d=0.45	h=15
10	Oak	d=0.55	h=15	132	Maple	d=0.25	h=9
11	Sweet chestnut	d=0.25	h=10	133	Ash	d=0.25	h=10
12	Oak	d=0.55	h=15	134	Ash	d=0.25	h=10
13	Oak	d=0.65	h=15	135	Ash	d=0.2	h=10
14	Oak	d=0.6	h=15	136	Ash	d=0.2	h=10
15	Oak	d=0.5	h=12	137	Ash	d=0.2	h=10
16	Oak	d=0.45	h=15	138	Oak	d=0.65	h=15
17	Oak	d=0.55	h=15	139	Oak	d=0.65	h=15
18	Oak	d=0.7	h=15	140	Oak	d=0.5	h=15
19	Oak	d=0.6	h=15	141	Oak	d=0.6	h=15
20	Oak	d=0.4	h=15	142	Oak	d=0.55	h=15
21	Oak	d=0.6	h=12	143	Oak	d=0.45	h=15
22	Oak	d=0.6	h=12	144	Oak	d=0.45	h=15
23	Maple	d=0.25	h=10	145	Oak	d=0.45	h=12
24	Maple	d=0.25	h=10	146	Oak	d=0.65	h=15
25	Oak	d=0.4	h=12	147	Oak	d=0.65	h=15
26	Oak	d=0.4	h=12	148	Oak	d=0.7	h=15
27	Oak	d=0.45	h=12	149	Oak	d=0.5	h=15
28	Copper beech	d=0.35	h=12	150	Oak	d=0.5	h=15
29	Ash	d=0.15	h=9	151	Oak	d=0.5	h=15
30	Ash	d=0.15	h=9	152	Maple	d=0.25	h=9
31	Oak	d=0.45	h=12	153	Oak	d=0.55	h=15
32	Oak	d=0.45	h=12	154	Oak	d=0.65	h=15
33	Sweet chestnut	d=0.35	h=8	155	Oak	d=0.4	h=12
34	Hawthorn	d=0.15	h=7	156	Oak	d=0.6	h=15
35	Sycamore	d=0.15	h=12	157	Maple	d=0.25	h=9
36	Sycamore	d=0.5	h=12	158	Maple	d=0.25	h=9
37	Sycamore	d=0.45	h=12	159	Oak	d=0.45	h=15
38	Sweet chestnut	d=0.35	h=10	160	Oak	d=0.6	h=15
39	Sweet chestnut	d=0.35	h=10	161	Hawthorn	d=0.2	h=7
40	Unknown	d=0.1	h=7	162	Hawthorn	d=0.5	h=15
41	Sweet chestnut	d=0.35	h=10	163	Hawthorn	d=0.2	h=5
42	Unknown	d=0.2	h=8	164	Hawthorn	d=0.2	h=5
43	Cypress	d=0.15	h=5	165	Oak	d=0.5	h=12
44	Cypress	d=0.15	h=5	166	Oak	d=0.45	h=12
45	Cypress	d=0.15	h=5	167	Oak	d=0.55	h=15
46	Unknown	d=0.15	h=7	168	Oak	d=0.65	h=15
47	Ash	d=0.15	h=7	169	Oak	d=0.75	h=15
48	Ash	d=0.15	h=7	170	Fruit	d=0.3	h=6
49	Ash	d=0.2	h=10	171	Fruit	d=0.3	h=6
50	Oak	d=0.45	h=12	172	Oak	d=0.5	h=12
51	Ash	d=0.2	h=10	173	Hawthorn	d=0.25	h=7
52	Oak	d=0.2	h=10	174	Hawthorn	d=0.7	h=15
53	Oak	d=0.45	h=12	175	Unknown	d=0.35	h=10
54	Hawthorn	d=0.2	h=7	176	Oak	d=0.65	h=15
55	Ash	d=0.3	h=10	177	Oak	d=0.65	h=15
56	Oak	d=0.45	h=12	178	Hawthorn	d=0.25	h=7
57	Oak	d=0.5	h=12	179	Oak	d=0.45	h=15
58	Oak	d=0.45	h=12	180	Oak	d=0.45	h=15
59	Hawthorn	d=0.2	h=7	181	Oak	d=0.6	h=15
60	Ash	d=0.2	h=10	182	Oak	d=0.6	h=15
61	Hazel	multibole	h=6	183	Oak	d=0.45	h=15
62	Ash	d=0.15	h=8	184	Oak	d=0.5	h=15
63	Cypress	d=0.25	h=10	185	Oak	d=0.5	h=15
64	Cypress	d=0.25	h=10	186	Oak	d=0.75	h=15
65	Cypress	d=0.15	h=10	187	Oak	d=0.6	h=12
66	Cypress	d=0.2	h=10	188	Oak	d=0.6	h=12
67	Cypress	d=0.15	h=10	189	Oak	d=0.55	h=15
68	Cypress	d=0.25	h=10	190	Oak	d=0.6	h=15
69	Oak	d=0.6	h=15	191	Oak	d=0.75	h=15
70	Hawthorn	d=0.2	h=7	192	Unknown	d=0.2	h=9
71	Hawthorn	d=0.2	h=7	193	Oak	d=0.75	h=15
72	Hawthorn	d=0.2	h=7	194	Oak	d=0.2	h=10
73	Oak	d=0.55	h=15	195	Unknown	d=0.2	h=9
74	Oak	d=0.65	h=15	196	Sycamore	d=0.3	h=11
75	Oak	d=0.6	h=15	197	Cypress	d=0.1	h=7
76	Oak	d=0.6	h=15	198	Cypress	d=0.1	h=7
77	Ash	d=0.2	h=10	199	Cypress	d=0.1	h=7
78	Hawthorn	d=0.2	h=7	200	Cypress	d=0.1	h=7
79	Oak	d=0.6	h=15	201	Cypress	d=0.1	h=7
80	Ash	d=0.15	h=8	202	Cypress	d=0.1	h=7
81	Ash	d=0.15	h=8	203	Cypress	d=0.1	h=7
82	Oak	d=0.7	h=15	204	Cypress	d=0.1	h=7
83	Oak	d=0.6	h=15	205	Eucalyptus	d=0.15	h=12
84	Oak	d=0.45	h=15	206	Eucalyptus	d=0.3	h=12
85	Oak	d=0.45	h=15	207	Eucalyptus	d=0.5	h=15
86	Hawthorn	d=0.15	h=6	208	Fruit	d=0.45	h=9
87	Hawthorn	d=0.15	h=6	209	Oak	d=0.75	h=15
88	Hawthorn	d=0.15	h=6	210	Cypress	d=0.45	h=10
89	Oak	d=0.5	h=15	211	Pine	d=0.5	h=12
90	Oak	d=0.55	h=15	212	Maple	d=0.2	h=8
91	Oak	d=0.5	h=15	213	Maple	d=0.2	h=8
92	Oak	d=0.5	h=15	214	Sweet chestnut	d=0.2	h=10
93	Oak	d=0.45	h=15	215	Maple	d=0.2	h=8
94	Oak	d=0.65	h=15	216	Maple	d=0.2	h=8
95	Oak	d=0.65	h=15	217	Maple	d=0.2	h=8
96	Oak	d=0.75	h=15	218	Sweet chestnut	d=0.2	h=10
97	Unknown	d=0.2	h=9	219	Sweet chestnut	d=0.15	h=8
98	Oak	d=0.75	h=15	220	Maple	d=0.15	h=8
99	Oak	d=0.65	h=15	221	Maple	d=0.15	h=8
100	Oak	d=0.45	h=15	222	Maple	d=0.15	h=8
101	Oak	d=0.55	h=15	223	Maple	d=0.15	h=8
102	Oak	d=0.3	h=10	224	Maple	d=0.15	h=8
103	Oak	d=0.3	h=10	225	Maple	d=0.2	h=9
104	Oak	d=0.35	h=10	226	Maple	d=0.15	h=7
105	Oak	d=0.65	h=15	227	Maple	d=0.15	h=7
106	Oak	d=0.25	h=10	228	Maple	d=0.15	h=7
107	Oak	d=0.25	h=10	229	Maple	d=0.25	h=8
108	Oak	d=0.25	h=10	230	Fruit	d=0.25	h=8
109	Ash	d=0.3	h=12	231	Ash	d=0.25	h=12
110	Ash	d=0.3	h=12	232	Pine	d=0.25	h=8
111	Ash	d=0.3	h=12	233	Copper beech	d=0.25	h=8
112	Ash	d=0.25	h=10	234	Silver birch	d=0.2	h=5
113	Ash	d=0.3	h=12	235	Cypress	d=0.25	h=8
114	Ash	d=0.3	h=12	236	Cypress	d=0.1	h=5
115	Oak	d=0.5	h=15	237	Fruit	d=0.4	h=4
116	Oak	d=0.6	h=15	238	Eucalyptus	d=0.6	h=15
117	Oak	d=0.5	h=15	239	Oak	d=1	h=15
118	Maple	d=0.2	h=9	240	Ash	d=0.3	h=12
119	Maple	d=0.2	h=9	241	Cherry	d=0.1	h=3
120	Maple	d=0.2	h=9	242	Ash	d=0.45	h=15
121	Maple	d=0.2	h=9	243	Ash	d=0.45	h=15
122	Maple	d=0.2	h=9	244	Ash	d=0.45	h=15
				245	Fruit	d=0.45	h=6

Survey control

Stn	Easting	Northing	Height
H1	515631.402	125305.662	51.279
H2	515610.500	125318.733	52.165
H3	515607.696	125301.299	52.155
H4	515604.855	125274.985	52.134
H5	515602.762	125249.960	52.094
H6	515594.430	125215.895	52.107
H7	515597.144	125169.903	51.551
H8	515607.488	125134.666	50.966
H9	515604.441	125090.777	50.044
H10	515596.289	125060.655	49.357
H11	515575.550	125027.933	48.720
H12	515587.561	125009.616	48.201
H13	515537.523	124982.071	47.187
H14	515511.502	124946.048	46.193
H15	515482.567	124913.525	45.644
H16	515482.774	124894.551	45.428
H17	515442.219	124817.735	44.160
H18	515422.716	124731.426	43.424
H19	515605.249	125006.412	47.936
H20	515594.530	125027.180	48.845
H21	515604.561	125004.996	49.342
H22	515614.028	125025.112	48.671
H23	515631.493	125062.966	49.893
H24	515619.861	125132.515	51.071
H25	515640.040	125126.058	50.382
H26	515649.070	125123.077	49.859
H27	515665.718	125118.248	49.878
H28	515687.432	125108.761	48.024
H29	515698.422	125104.671	47.542
H30	515715.044	125009.368	46.871
H31	515734.280	125093.007	46.117
H32	515753.728	125087.001	45.450
H33	515775.659	125077.174	44.247
H34	515788.697	125080.262	43.866
H35	515765.209	125060.921	44.526
H36	515752.584	125047.121	45.054
H37	515722.890	125015.307	45.791
H38	515695.163	124986.938	45.705
H39	515675.203	124963.687	45.336
H40	515658.614	124941.155	44.725
H41	515641.701	124912.906	44.238
H42	515615.053	124884.472	42.868
H43	515588.228	124857.243	42.132
H44	515561.309	124830.014	41.396
H45	515534.390	124802.785	40.660
H46	515507.471	124775.556	39.924
H47	515480.552	124748.327	39.188
H48	515453.633	124721.098	38.452
H49	515426.714	124693.869	37.716
H50	515399.795	124666.640	36.980
H51	515372.876	124639.411	36.244
H52	515345.957	124612.182	35.508
H53	515319.038	124584.953	34.772
H54	515292.119	124557.724	34.036
H55	515265.200	124530.495	33.300
H56	515238.281	124503.266	32.564
H57	515211.362	124476.037	31.828
H58	515184.443	124448.808	31.092
H59	515157.524	124421.579	30.356
H60	515130.605	124394.350	29.620
H61	515103.686	124367.121	28.884
H62	515076.767	124339.892	28.148
H63	515049.848	124312.663	27.412
H64	515022.929	124285.434	26.676
H65	514996.010	124258.205	25.940
H66	514969.091	124230.976	25.204
H67	514942.172	124203.747	24.468
H68	514915.253	124176.518	23.732
H69	514888.334	124149.289	22.996
H70	514861.415	124122.060	22.260
H71	514834.496	124094.831	21.524
H72	514807.577	124067.602	20.788
H73	514780.658	124040.373	20.052
H74	514753.739	124013.144	19.316
H75	514726.820	123985.915	18.580
H76	514700.000	123958.686	17.844
H77	514673.081	123931.457	17.108
H78	514646.162	123904.228	16.372
H79	514619.243	123876.999	15.636
H80	514592.324	123849.770	14.900
H81	514565.405	123822.541	14.164
H82	514538.486	123795.312	13.428
H83	514511.567	123768.083	12.692
H84	514484.648	123740.854	11.956
H85	514457.729	123713.625	11.220
H86	514430.810	123686.396	10.484
H87	514403.891	123659.167	9.748
H88	514376.972	123631.938	9.012
H89	514350.053	123604.709	8.276
H90	514323.134	123577.480	7.540
H91	514296.215	123550.251	6.804
H92	514269.296	123523.022	6.068
H93	514242.377	123495.793	5.332
H94	514215.458	123468.564	4.596
H95	514188.539	123441.335	3.860
H96	514161.620	123414.106	3.124
H97	514134.701	123386.877	2.388
H98	514107.782	123359.648	1.652
H99	514080.863	123332.419	0.916
H100	514053.944	123305.190	0.180

Appendix D

BGS Borehole Records



Borehole Scan Viewer

BGS ID: 578383 : BGS
Reference: TQ12NE63
British National Grid
(27700) : 516160,125210

<< < **Prev** Page 1 of 1 **Next** > >>

[Report an issue with this borehole](#)

GROUND EXPLORATIONS Ltd. 68/73 Alpha Street, Slough, Bucks, SL1 1QX					Borehole No. 51					
Contract	Southwater Bypass TQ12NE/63				Started	26.3.73.				
Location	A24 south of Cripplegate Windmill				Completed	26.3.73.				
Report No	5949/BW 1616. 2521				Diameter	150 mm				
					Ground Level	O.D. 48.67 m				
Description	Legend	Thickness m	Depth m	Level m	Sample Type	Sample No.	Depth m	C/S (N)	M/C (% Se/Si)	Water
Top-soil		0.3	0.3	48.4	D	5103	0.3			
Mottled brown and light grey clay		0.9	1.2	47.5	D	5104	0.6			
			1.5	47.2	B	9729	0.8			
Black, brown and grey shaly clay		0.3	1.5	47.2	U	5105	1.1			
					D	5106	1.5			
Brown and grey mottled clay		0.9	2.4	46.3	U	5107	1.8			
						9281	2.1			
Brown and grey mottled friable clay with crystals		0.6	3.0	45.7	D	5108	2.4			
					D	5110	3.4			
Olive clay-shale with crystals		2.2			U	5111	4.1			
					U	5115	4.7			
			5.2	43.2						WE Nil/3.0/26.3.



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Borehole Scan Viewer

BGS ID: 578387 : BGS
Reference: TQ12NE67
British National Grid
(27700) : 516250,125010

<< < **Prev** Page 1 of 1 **Next** > >>

[Report an issue with this borehole](#)

GROUND EXPLORATIONS Ltd.							Borehole No 60			
68/76 Alpha Street, Slough, Bucks., SL1 1QX							Started 28.3.73.			
Contract Southwater Bypass TQ12NE/67							Completed 28.3.73.			
Location A24 north of Vincents Cottages							Diameter 150 mm			
Report No 5949/BW 1625. 2501							Ground Level O.D. 47.83 m			
Description	Legend	Thickness m	Depth m	Level m	Sample Type	Sample No	Depth m	C/O (N)	M/C (C/Sa/Si)	Water
(consolid)		0.3	0.3	47.5	D	5124	0.3			
Brown and light gray mottled clay with rootlets and plant stems		1.1			D	5125	0.6			
			1.4	46.4	U	5126	1.1			
Brown and blue mottled clay		0.7			D	5127	1.8			
			2.1	45.7						
Brown-blue mottled friable clay with crystals		0.6			D	5128	2.4			
			2.7	45.1	U	5129	2.6			
Brown friable clay-siltstone		0.3			D	5130	3.0			
			3.0	44.8						WE Nil/1.5/28.3.



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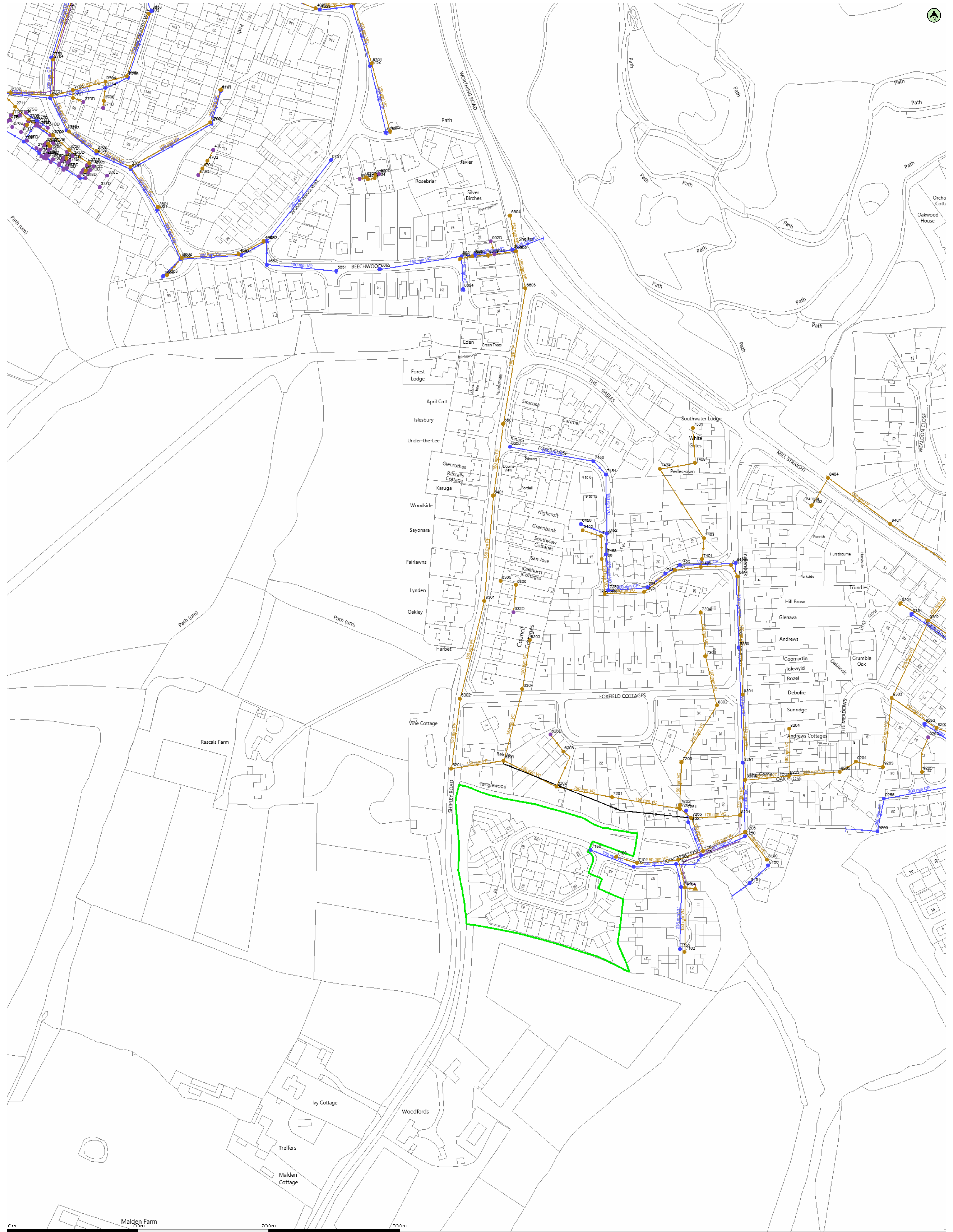
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Appendix E

Southern Water records



0m 100m 200m 300m

Scale: 1:1250
Map Centre: S15619.125372

Date: 02/10/20
Our Ref: 443955 - 1

Wastewater Plan A1
Powered by digimap

vholido@motion.co.uk	
southwater	

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.

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
2701	F	50.88	48.20	
2702	F	50.86	48.00	
2704	F	51.54	49.36	
2705	F	0.00	0.00	
2707	F	0.00	0.00	
2708	F	0.00	0.00	
2709	F	0.00	0.00	
270D	F	0.00	0.00	
2710	F	0.00	0.00	
2711	F	0.00	0.00	
271D	F	0.00	0.00	
272D	F	0.00	0.00	
273D	F	0.00	0.00	
274D	F	0.00	0.00	
27BD	F	0.00	0.00	
3601	F	52.77	50.58	
3602	F	54.99	52.95	
3603	F	54.77	53.48	
3701	F	51.80	49.77	
3702	F	50.80	49.12	
3703	F	50.21	48.59	
3704	F	0.00	0.00	
3705	F	52.30	50.48	
3706	F	0.00	0.00	
3707	F	0.00	0.00	
3708	F	0.00	0.00	
370D	F	0.00	0.00	
3712	F	0.00	0.00	
3718	F	0.00	0.00	
3719	F	0.00	0.00	
371D	F	0.00	0.00	
372D	F	0.00	0.00	
372D	F	0.00	0.00	
373D	F	0.00	0.00	
374D	F	0.00	0.00	
37AD	F	0.00	0.00	
37BD	F	0.00	0.00	
37CD	F	0.00	0.00	
37DD	F	0.00	0.00	
37ED	F	0.00	0.00	
3802	F	54.38	52.19	
4601	F	56.86	55.04	
4602	F	58.10	56.32	
4701	F	54.50	52.63	
4702	F	53.90	52.09	
4703	F	0.00	0.00	
4704	F	0.00	0.00	
470D	F	0.00	0.00	
471D	F	0.00	0.00	
4803	F	55.06	50.95	
5201	F	52.14	0.00	
5701	F	56.32	53.91	
5702	F	56.91	54.64	
5703	F	0.00	0.00	
5704	F	0.00	0.00	
5705	F	0.00	0.00	
5706	F	0.00	0.00	
570D	F	0.00	0.00	
571D	F	0.00	0.00	
5801	F	54.67	50.72	
6201	F	50.21	49.22	
6202	F	48.09	47.44	
6203	F	0.00	0.00	
620D	F	0.00	0.00	
6301	F	53.12	51.61	
6302	F	52.10	50.35	
6303	F	0.00	0.00	
6304	F	50.94	50.19	
6305	F	0.00	0.00	
6306	F	0.00	0.00	
632D	F	0.00	0.00	
6401	F	56.61	52.05	
6402	F	53.47	52.97	
6501	F	57.15	52.56	
6601	F	56.84	54.69	
6602	F	56.58	54.42	
6603	F	56.38	53.84	
6604	F	54.60	53.28	
6605	F	55.05	53.08	
6606	F	55.15	0.00	
661D	F	0.00	0.00	
662D	F	0.00	0.00	
7100	F	46.50	44.56	
7101	F	45.72	43.81	
7102	F	44.26	41.52	
7103	F	44.84	42.69	
7104	F	44.34	41.41	
7105	F	44.08	41.78	
7201	F	47.27	46.57	
7202	F	46.32	45.60	
7203	F	0.00	0.00	
7204	F	46.29	45.53	
7205	F	46.51	45.35	
7303	F	49.99	48.27	
7304	F	51.27	50.06	
7305	F	52.58	51.40	
7306	F	52.81	51.17	
7401	F	52.84	51.39	
7402	F	52.60	50.79	

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
7501	F	0.00	0.00	
8100	F	44.64	43.21	
8201	F	46.35	45.26	
8202	F	46.95	45.16	
8203	F	47.15	0.00	
8204	F	0.00	0.00	
8205	F	0.00	0.00	
8206	F	45.88	42.91	
8301	F	48.98	47.59	
8302	F	0.00	0.00	
8401	F	51.94	50.51	
8402	F	52.18	50.62	
8403	F	51.69	50.00	
8404	F	51.11	49.66	
9202	F	49.19	46.80	
9203	F	48.03	0.00	
9204	F	0.00	0.00	
9205	F	0.00	0.00	
920D	F	0.00	0.00	
9301	F	49.27	47.53	
9302	F	49.42	44.52	
9303	F	49.49	44.74	
9401	F	0.00	0.00	
2751	S	50.38	48.68	
2753	S	51.59	50.03	
2754	S	0.00	0.00	
2755	S	0.00	0.00	
2756	S	0.00	0.00	
275B	S	0.00	0.00	
275D	S	0.00	0.00	
276B	S	0.00	0.00	
276D	S	0.00	0.00	
277B	S	0.00	0.00	
277D	S	0.00	0.00	
278D	S	0.00	0.00	
279D	S	0.00	0.00	
27PB	S	0.00	0.00	
27PD	S	0.00	0.00	
27QD	S	0.00	0.00	
27RD	S	0.00	0.00	
27SB	S	0.00	0.00	
27SD	S	0.00	0.00	
27TB	S	0.00	0.00	
27TD	S	0.00	0.00	
27UB	S	0.00	0.00	
27UD	S	0.00	0.00	
27VB	S	0.00	0.00	
27VD	S	0.00	0.00	
27WD	S	0.00	0.00	
27XD	S	0.00	0.00	
27YD	S	0.00	0.00	
27ZD	S	0.00	0.00	
3651	S	52.84	50.98	
3652	S	55.00	53.36	
3653	S	54.71	53.66	
3751	S	51.81	50.23	
3752	S	50.89	49.53	
3753	S	50.21	48.98	
3754	S	51.81	49.99	
3755	S	52.29	50.79	
3756	S	0.00	0.00	
375D	S	0.00	0.00	
376D	S	0.00	0.00	
377D	S	0.00	0.00	
378D	S	0.00	0.00	
379D	S	0.00	0.00	
37PD	S	0.00	0.00	
37QD	S	0.00	0.00	
37RD	S	0.00	0.00	
37SD	S	0.00	0.00	
37TD	S	0.00	0.00	
37UD	S	0.00	0.00	
37VD	S	0.00	0.00	
3853	S	54.46	52.58	
4651	S	56.86	55.52	
4652	S	58.15	56.71	
4653	S	57.61	56.27	
4751	S	54.49	52.93	
4752	S	53.91	52.45	
4853	S	55.04	53.18	
5651	S	59.01	57.75	
5652	S	58.46	56.52	
5751	S	58.28	56.91	
5752	S	56.39	54.03	
5753	S	56.96	55.08	
5851	S	54.72	53.42	
6450	S	53.57	52.76	
6550	S	55.94	54.32	
6651	S	56.81	54.99	
6652	S	56.44	54.51	
6653	S	55.18	53.35	
6654	S	56.97	55.46	
7150	S	47.50	46.01	
7151	S	45.81	44.00	
7152	S	44.28	42.38	
7153	S	44.97	42.73	
7154	S	44.40	42.55	
7155	S	44.02	42.57	
7250	S	45.66	43.53	
7251	S	46.13	44.94	
7350	S	52.65	50.90	
7351	S	52.85	50.66	
7450	S	54.30	53.85	
7451	S	53.88	53.43	

[illegible]

7408	F	0.00	0.00		7452	S	52.92	52.35											
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Appendix F

EA Product 4

Flood map for planning

Your reference
product 4

Location (easting/northing)
515721/125177

Created
23 Nov 2020 17:39

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

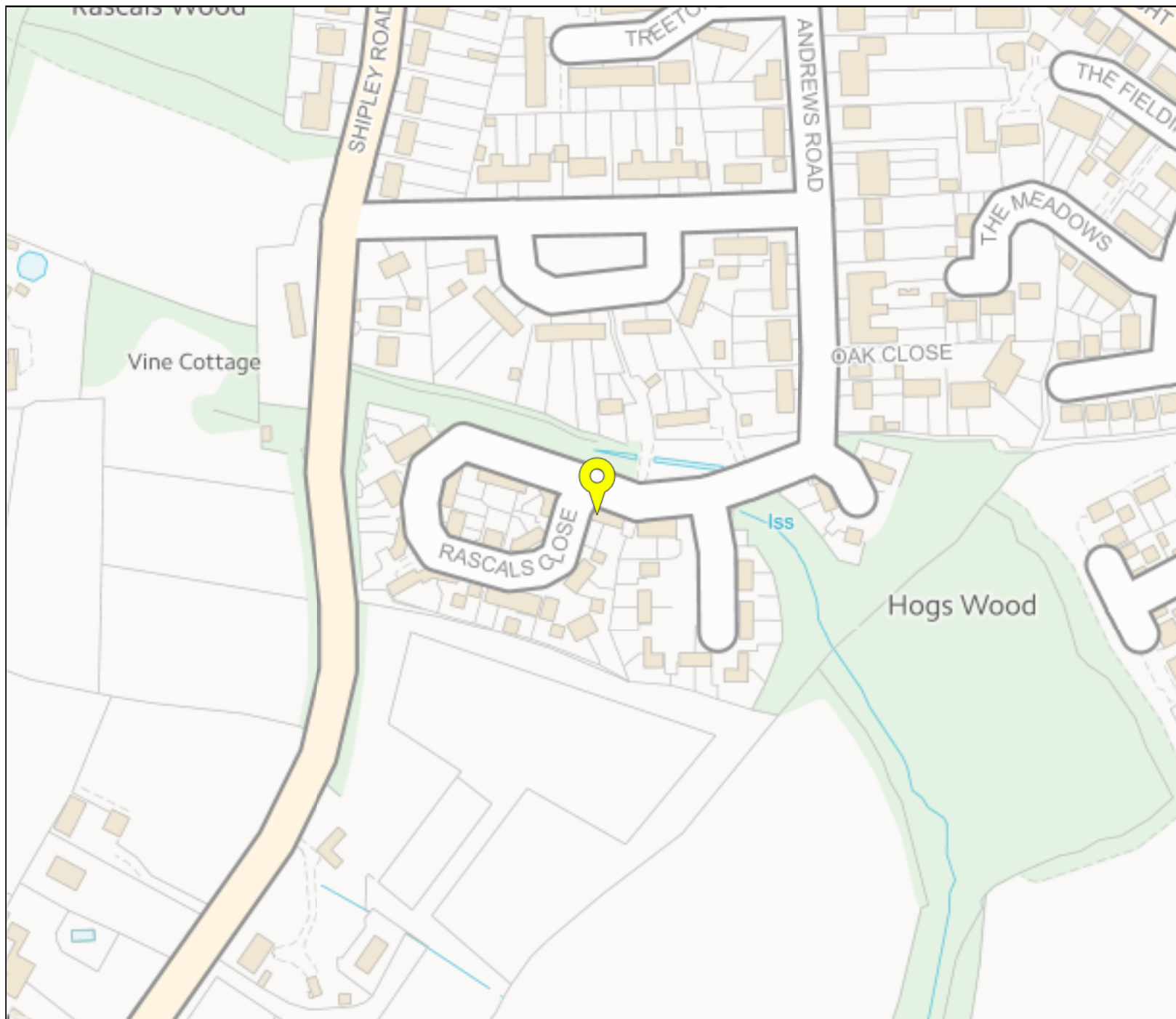
- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

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<https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>



Flood map for planning

Your reference
product 4

Location (easting/northing)
515721/125177

Scale
1:2500

Created
23 Nov 2020 17:39

-  Selected point
-  Flood zone 3
-  Flood zone 3: areas benefitting from flood defences
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Flood storage area

0 20 40 60m

Appendix G

Surface Water Flood Maps