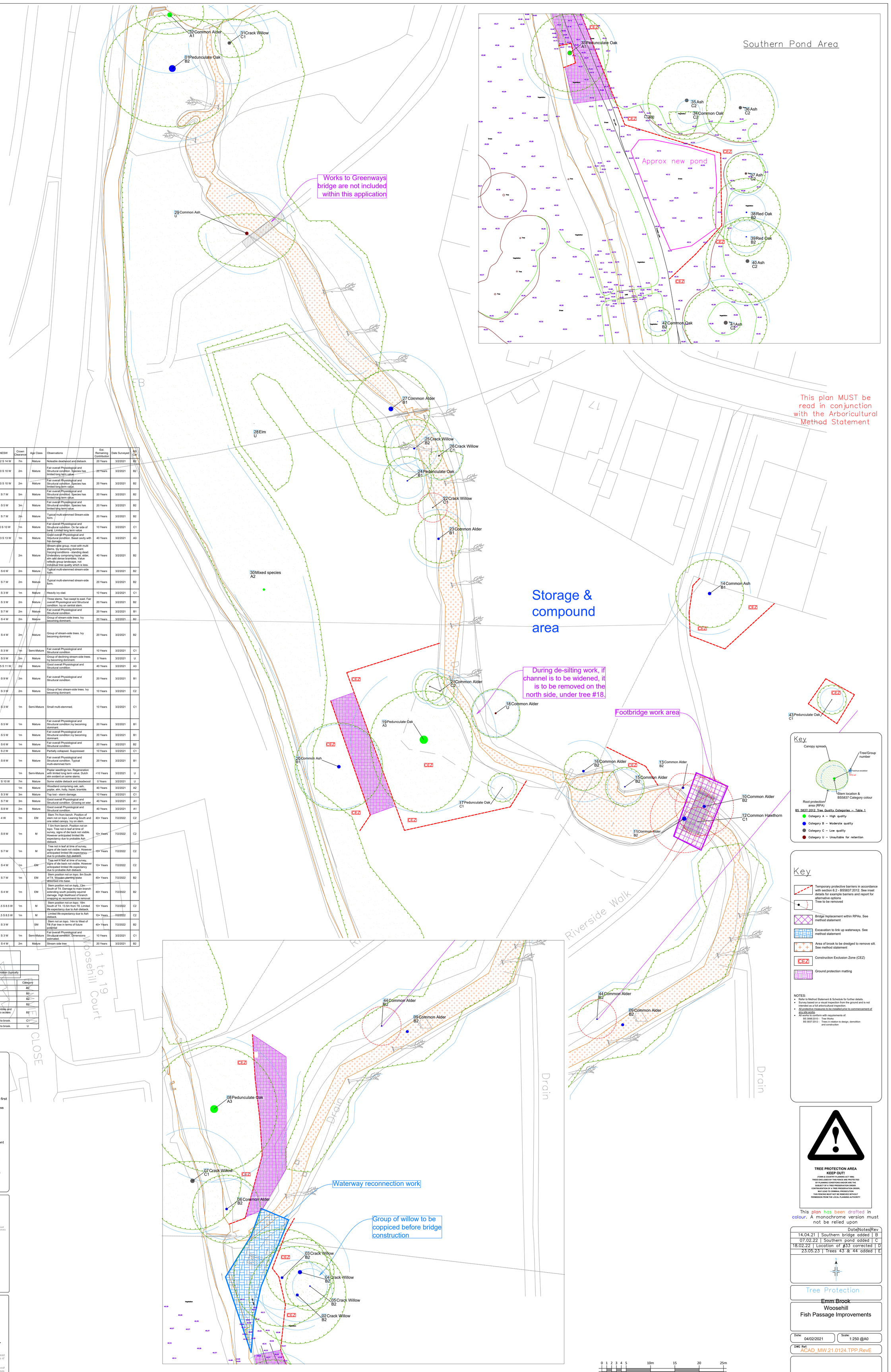


Trees for Removal or Retention

Retained Trees			
Ref	Species	Common Name	Category
01	Quercus robur	Pedunculate Oak	B2
02	Salix fragilis	Crack Willow	B2
03	Salix fragilis	Crack Willow	B2
04	Salix fragilis	Crack Willow	B2
05	Salix fragilis	Crack Willow	B2
06	Alnus glutinosa	Common Alder	B2
07	Salix fragilis	Crack Willow	C1
08	Quercus robur	Pedunculate Oak	A3
09	Alnus glutinosa	Common Alder	B2
14	Fraxinus excelsior	Common Ash	B1
15	Alnus glutinosa	Common Alder	B2
16	Alnus glutinosa	Common Alder	B2
17	Quercus robur	Pedunculate Oak	C1
18	Alnus glutinosa	Common Alder	U
19	Quercus robur	Pedunculate Oak	A3
20	Fraxinus excelsior	Common Ash	B1
21	Alnus glutinosa	Common Alder	C2
23	Alnus glutinosa	Common Alder	B1
24	Quercus robur	Pedunculate Oak	B1
25	Salix fragilis	Crack Willow	B2
26	Salix fragilis	Crack Willow	C1
27	Alnus glutinosa	Common Alder	B1
28	Ulmus sp.	Elm	U
29	Fraxinus excelsior	Common Ash	U
30	Mixed species	Mixed species	A2
31	Salix fragilis	Crack Willow	C1
32	Alnus glutinosa	Common Alder	A1
33	Quercus robur	Pedunculate Oak	A1
34	Quercus robur	Common Oak	C2
35	Fraxinus excelsior	Ash	C2
36	Fraxinus excelsior	Ash	C2
37	Fraxinus excelsior	Ash	C2
38	Quercus rubra	Red Oak	B2
39	Quercus rubra	Red Oak	B2
40	Fraxinus excelsior	Ash	C2
41	Fraxinus excelsior	Ash	C2
42	Quercus robur	Common Oak	B2
43	Quercus robur	Pedunculate Oak	C1

Trees for Removal			
Ref	Species	Common Name	Category
10	Alnus glutinosa	Common Alder	B2
11	Alnus glutinosa	Common Alder	B2
12	Crataegus monogyna	Common Hawthorn	C1
13	Alnus glutinosa	Common Alder	B2
22	Salix fragilis	Crack Willow	C1
44	Alnus glutinosa	Common Alder	B2

BS5837 Tree Survey Schedule

Surveyed Trees

Ref	Species	Common Name	Height	Stem Diameter	Canopy NESW	Crown Clearance	Age Class	Observations	Est. Remaining Contribution	Date Surveyed	BS Cat.
01	Quercus robur	Pedunculate Oak	22m	1400#mm	11 N 14 E 12 S 14 W	7m	Mature	Noteable deadwood and dieback.	20 Years	3/2/2021	B2
02	Salix fragilis	Crack Willow	19m	300#mm; 300#mm; 300#mm; 300#mm	10 N 10 E 10 S 10 W	2m	Mature	Fair overall Physiological and Structural condition. Species has limited long term value.	20 Years	3/2/2021	B2
03	Salix fragilis	Crack Willow	19m	500mm; 200mm	10 N 10 E 10 S 10 W	2m	Mature	Fair overall Physiological and Structural condition. Species has limited long term value.	20 Years	3/2/2021	B2
04	Salix fragilis	Crack Willow	19m	600#mm; 600#mm	7 N 7 E 7 S 7 W	5m	Mature	Fair overall Physiological and Structural condition. Species has limited long term value.	20 Years	3/2/2021	B2
05	Salix fragilis	Crack Willow	19m	300#mm	5 N 5 E 5 S 5 W	3m	Mature	Fair overall Physiological and Structural condition. Species has limited long term value.	20 Years	3/2/2021	B2
06	Alnus glutinosa	Common Alder	13m	300#mm; 300#mm; 300#mm	7 N 7 E 7 S 7 W	2m	Mature	Typical multi-stemmed Stream-side form.	20 Years	3/2/2021	B2
07	Salix fragilis	Crack Willow	20m	900#mm	4 N 10 E 10 S 10 W	1m	Mature	Fair overall Physiological and Structural condition. On far side of bank. Limited long term value	10 Years	3/2/2021	C1
08	Quercus robur	Pedunculate Oak	19m	1600mm	13 N 13 E 13 S 13 W	1m	Mature	Good overall Physiological and Structural condition. Basal cavity with fire damage.	40 Years	3/2/2021	A3
09	Alnus glutinosa	Common Alder	16m	600#mm		2m	Mature	Stream-side group. most with multi stems. Ivy becoming dominant. Varying conditions - standing dead. Underitory comprising hazel, elder, elm and dense brambles. Value reflects group landscape, not individual tree quality which is less.	40 Years	3/2/2021	B2
10	Alnus glutinosa	Common Alder	16m	500mm; 400mm; 100mm	6 N 6 E 6 S 6 W	2m	Mature	Typical multi-stemmed stream-side form.	20 Years	3/2/2021	B2
11	Alnus glutinosa	Common Alder	16m	600mm; 300mm; 400mm; 300mm; 300mm	7 N 7 E 7 S 7 W	2m	Mature	Typical multi-stemmed stream-side form.	20 Years	3/2/2021	B2
12	Crataegus monogyna	Common Hawthorn	6m	200mm; 100mm	3 N 3 E 3 S 3 W	1m	Mature	Heavily ivy clad.	10 Years	3/2/2021	C1
13	Alnus glutinosa	Common Alder	16m	300mm; 300mm; 300mm	3 N 6 E 3 S 3 W	2m	Mature	Three stems. Two swept to east. Fair overall Physiological and Structural condition. Ivy on central stem.	20 Years	3/2/2021	B2
14	Fraxinus excelsior	Common Ash	12m	700mm	7 N 7 E 7 S 7 W	2m	Mature	Fair overall Physiological and Structural condition.	20 Years	3/2/2021	B1
15	Alnus glutinosa	Common Alder	15m	300#mm	4 N 4 E 4 S 4 W	2m	Mature	Group of stream-side trees. Ivy becoming dominant.	20 Years	3/2/2021	B2
16	Alnus glutinosa	Common Alder	6m	200#mm; 200#mm; 200#mm; 200#mm; 200#mm; 200#mm; 200#mm; 200#mm	4 N 4 E 4 S 4 W	2m	Mature	Group of stream-side trees. Ivy becoming dominant.	20 Years	3/2/2021	B2
17	Quercus robur	Pedunculate Oak	4m	200#mm	3 N 3 E 3 S 3 W	1m	Semi-Mature	Fair overall Physiological and Structural condition.	10 Years	3/2/2021	C1
18	Alnus glutinosa	Common Alder	17m	400#mm	5 N 5 E 5 S 5 W	2m	Mature	Group of declining stream-side trees. Ivy becoming dominant.	0 Years	3/2/2021	U
19	Quercus robur	Pedunculate Oak	18m	1700mm	10 N 10 E 15 S 11 W	2m	Mature	Good overall Physiological and Structural condition.	40 Years	3/2/2021	A3
20	Fraxinus excelsior	Common Ash	10m	500mm; 300mm; 300mm; 300mm; 200mm; 200mm	9 N 9 E 9 S 9 W	2m	Mature	Fair overall Physiological and Structural condition.	20 Years	3/2/2021	B1
21	Alnus glutinosa	Common Alder	17m	300#mm	3 N 3 E 3 S 3 W	2m	Mature	Group of two stream-side trees. Ivy becoming dominant.	10 Years	3/2/2021	C2
22	Salix fragilis	Crack Willow	5m	100#mm; 100#mm; 100#mm; 100#mm; 100#mm; 100#mm; 100#mm; 100#mm	3 N 3 E 3 S 3 W	1m	Semi-Mature	Small multi-stemmed.	10 Years	3/2/2021	C1
23	Alnus glutinosa	Common Alder	15m	500#mm	5 N 5 E 5 S 5 W	1m	Mature	Fair overall Physiological and Structural condition.Ivy becoming dominant.	20 Years	3/2/2021	B1
24	Quercus robur	Pedunculate Oak	10m	300#mm	5 N 5 E 5 S 5 W	1m	Mature	Fair overall Physiological and Structural condition.Ivy becoming dominant.	20 Years	3/2/2021	B1
25	Salix fragilis	Crack Willow	15m	400#mm	6 N 6 E 6 S 6 W	1m	Mature	Fair overall Physiological and Structural condition.	20 Years	3/2/2021	B2
26	Salix fragilis	Crack Willow	11m	400#mm	1 N 5 E 5 S 2 W		Mature	Partially collapsed. Suppressed	10 Years	3/2/2021	C1
27	Alnus glutinosa	Common Alder	17m	500mm; 500mm; 400mm; 500mm; 200mm	8 N 8 E 8 S 8 W	1m	Mature	Fair overall Physiological and Structural condition. Typical multi-stemmed form	20 Years	3/2/2021	B1
28	Ulmus sp.	Elm	5m	100#mm		1m	Semi-Mature	Poplar seedlings too. Regeneration with limited long term value. Dutch elm evident on some stems.	<10 Years	3/2/2021	U
29	Fraxinus excelsior	Common Ash	19m	700mm	4 N 10 E 7 S 10 W	7m	Mature	Some visible dieback and deadwood	0 Years	3/2/2021	U
30	Mixed species	Mixed species	18m	500mm		1m	Mature	Woodland comprising oak, ash, poplar, elm, holly, hazel, bramble.	40 Years	3/2/2021	A2
31	Salix fragilis	Crack Willow	7m	700mm	5 N 7 E 3 S 3 W	3m	Mature	Top lost - storm damage.	10 Years	3/2/2021	C1
32	Alnus glutinosa	Common Alder	18m	1000#mm	9 N 7 E 4 S 7 W	3m	Mature	Good overall Physiological and Structural condition. Growing on wier.	40 Years	3/2/2021	A1
33	Quercus robur	Pedunculate Oak	18m	800mm	8 N 8 E 8 S 8 W	2m	Mature	Good overall Physiological and Structural condition.	40 Years	3/2/2021	A1
34	Quercus robur	Common Oak	10m	150mm; 150mm	2 E 5 S 4 W	1m	EM	Stem 7m from bench. Position of stem not on topo. Leaning South and one sided canopy. Ivy on stem.	40+ Years	7/2/2022	C2
35	Fraxinus excelsior	Ash	17m	740mm	8 N 8 E 8 S 8 W	1m	M	7.5m from bench. Position not on topo. Tree not in leaf at time of survey, signs of die back not visible. However anticipated limited life expectancy due to probable Ash dieback.	10+ Years	7/2/2022	C2
36	Fraxinus excelsior	Ash	17m	640mm	7 N 7 E 7 S 7 W	1m	M	Tree not in leaf at time of survey, signs of die back not visible. However anticipated limited life expectancy due to probable Ash dieback.	10+ Years	7/2/2022	C2
37	Fraxinus excelsior	Ash	14m	370mm	4 N 4 E 4 S 4 W	1m	EM	Tree not in leaf at time of survey, signs of die back not visible. However anticipated limited life expectancy due to probable Ash dieback.	10+ Years	7/2/2022	C2
38	Quercus rubra	Red Oak	13m	330mm	7 N 7 E 7 S 7 W	1m	EM	Stem position not on topo. 8m South of T4. Wooden planting stake absorbed into base.	40+ Years	7/2/2022	B2
39	Quercus rubra	Red Oak	13m	280mm	4 N 4 E 4 S 4 W	1m	EM	Stem position not on topo. 13m South of T4. Damage to main branch extending south possibly squirrel damage. High likelihood of branch snapping so recommend its removal.	40+ Years	7/2/2022	B2
40	Fraxinus excelsior	Ash	17m	760mm	8.5 N 8.5 E 8.5 S 8.5 W	1m	M	Stem position not on topo. 18m South of T4. 13.5m from T8. Limited life expectancy due to Ash dieback.	10+ Years	7/2/2022	C2
41	Fraxinus excelsior	Ash	17m	750mm	7.5 N 8.5 E 7.5 S 8.5 W	1m	M	Limited life expectancy due to Ash dieback.	10+ Years	7/2/2022	C2
42	Quercus robur	Common Oak	5m	180mm	3 N 3 E 3 S 3 W		SM	Stem not on topo. 14m to West of T8. Fair tree in terms of future potential	40+ Years	7/2/2022	B2
43	Quercus robur	Pedunculate Oak	4m	200#mm	3 N 3 E 3 S 3 W	1m	Semi-Mature	Fair overall Physiological and Structural condition. Dimensions estimated.	10 Years	3/2/2021	C1
44	Alnus glutinosa	Common Alder	15m	300#mm	4 N 4 E 4 S 4 W	2m	Mature	Stream side tree	20 Years	3/2/2021	B2

Survey by Mark Welby DipArb(RFS), TechCert(ArborA), FArborA
Arboricultural Association Registered Consultant
& Tom Grayshaw BA (Hons) Tech Cert (ArborA) Dip Arb L6 (ABC) MArborA
www.mwelby.com

\# denotes estimated dimension. Typically, estimated dimensions are based on visual inspection.
Where dimensions are not listed please refere to the plan graphics for an indicativie representation (typically for groups).

Tree Work Schedule

Work to Retained Trees				
Ref	Species	Common Name	Recommendations	Category
02	Salix fragilis	Crack Willow	Coppice	B2
03	Salix fragilis	Crack Willow	Coppice	B2
04	Salix fragilis	Crack Willow	Coppice	B2
05	Salix fragilis	Crack Willow	Coppice	B2
09	Alnus glutinosa	Common Alder	Strategic removal of brambles and small scrub as required to access stream for silt removal.	B2
22	Salix fragilis	Crack Willow	Remove to improve light to brook.	C1
28	Ulmus sp.	Elm	Remove to improve light to brook.	U

Construction Exclusion Zone

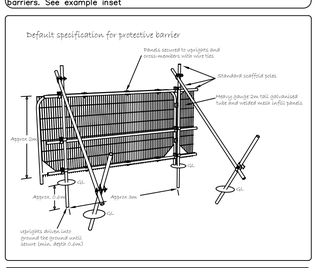
It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions within and adjacent to them.

Inside the exclusion zone, the following shall apply:
- No mechanical excavation whatsoever;
- No excavation by any other means without arboricultural site supervision;
- No hand digging without a written method statement having first been approved by the project arboriculturist;
- No lowering of levels for any purpose (except removal of grass sward using hand tools);
- No storage of plant or materials;
- No storage or handling of any chemical including cement washings;
- No vehicular access;
- No fire lighting.

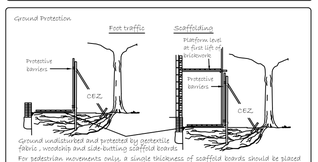
In addition to the above, further precautions are necessary adjacent to trees:
- No substances injurious to tree health, including fuels, oil, bitumen, cement (including cement washings), builder's sand, concrete mixing and other chemicals shall be stored or used within or directly adjacent to the protection area of retained trees;
- No fire shall be lit such that flames come within 5m of tree foliage.

All weather signs shall be erected at reasonable intervals on the barriers. See example inset

Default specification for protective barrier



Ground Protection



For pedestrian movements only, a single thickness of scaffold boards should be placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid over a geotextile.

For pedestrian operated plant up to 2 gross weight of 2 t, proprietary, inter-linked ground protection boards should be placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid over a geotextile.

For wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system, (e.g. pre-cast reinforced concrete slabs) should be employed to an engineering specification designed in conjunction with arboricultural advice to accommodate the likely loading to which it will be subjected.

This plan has been drafted in colour. A monochrome version must not be relied upon

Date	Notes	Rev
14.04.21	Southern bridge added	B
07.02.22	Southern pond added	C
18.02.22	Location of #33 corrected	D
23.05.23	Trees 43 & 44 added	E

Tree Protection

Emm Brook
Woosehill
Fish Passage Improvements

Date: 04/02/2021
Scale: 1:250 @A0

DWG Ref: ACAD_MW.21.0124.TPP.RevE

Mark Welby
DipArb(RFS), TechCert(ArborA), FArborA
Arboricultural Association Registered Consultant
01730 239 492 | mark@mwelby.com
www.mwelby.com
M Welby Ltd. | Hampshire | UK

This page is intentionally left blank