ARBORICULTURAL REPORT

CONTENTS:

1. INTRODUCTION

Background: LSDP were appointed to prepare an Arboricultural Survey & Report to inform the design process and satisfy Local Authority requirements in respect to the proposed infilling on a redundant pond / drainage basin and formation of a meadow landscape area on land adjacent to Bury Road, Hall Farm, Thurlow. The report is based on survey information collected in August 2020.

The Site: The site comprises a redundant pond / drainage basin, which is bordered to the north by Bury Road; to the east, by a woodland belt and adjacent paddocks; to the south, by domestic curtilage and paddocks; and to the west, by an access track. The basin remains dry for most of the year, but becomes partially flooded periodically during wet periods. The base of the basin is covered with a layer of silt and stagnant mud, with some scrub encroachment around the dryer parts at the eastern end.

2. ARBORICULTURAL APPRAISAL

Generally: The sides of the basin have been left unmanaged and now host stands of naturally generated trees, predominantly sycamore and ash, together with a few larger trees including beech, lime, horse chestnut and white willow. These larger trees appear to have been planted and predate the naturally generated trees. A mixed species hedgerow runs along the top of the northern bank, bordering Bury Road; the hedgerow continues beyond the site to the east; it is managed at a low height, but is sparse in places, due to shading from the naturally generated trees.

The hedgerow and the larger trees are traditional landscape elements that relate to the estate landscape surroundings and regarding BS5837:2012, should be considered as 'A2/3' or 'B2/3' Category (High, or moderate landscape / cultural value). The naturally generated sycamore and ash are of no special arboricultural, landscape, or cultural merit and should be considered as 'C2' category (low landscape value).

3. PROPOSED TREE WORK

It is proposed to clear most of the naturally generated trees (predominantly sycamore and ash) from the banks of the basin, so that the larger, older trees can remain as individual specimens, allowing the area to have a more 'managed' appearance, in keeping with the Estate Landscape surroundings.

4. ARBORICULTURAL IMPLICATIONS & IMPACT ASSESSMENT

Development Proposal: It is proposed to infill the basin with imported soil and to form a wildflower meadow area, together with a wildlife pond and watercourse to fulfil drainage requirements. The overall intentions are to augment local landscape character by changing the appearance of the area from overgrown / unkempt to managed estate land, in keeping with the estate landscape surroundings. An additional objective is to enhance the ecological value of the area by providing a range of new grassland and wetland habitat around the retained specimen trees.

Impact of Groundwork on Tree Roots: Most of the northern and eastern banks of the basin will be retained and will form the northern bank of the proposed watercourse and northern / eastern bank of the proposed pond. Parts of the southern bank will also be retained around the bases of trees to be retained. The remainder of the basin will be filled. The base of the basin is covered with silt and stagnant mud and being seasonally inundated, results in anaerobic conditions, which are not ideal for root growth. It is considered that filling the basin with soil material will not have a significant adverse impact on the rooting environment of the adjacent trees, particularly where the sections of bank upon which they are located are left uncovered; i'e' allowing gaseous exchange to occur at the existing surface level. Elsewhere, where filling is required that will cover parts of the bank adjacent to retained trees, a filter layer of inert stone or rubble material shall be laid over the bank beneath the fill material; the filter layer shall extend to the top of the fill material and separated from it with a geomembrane. This will allow gaseous exchange to continue and ensure the fill material does not have a significant adverse impact on the existing rooting environment.

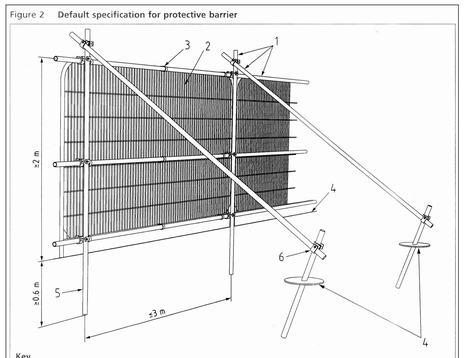
The proposed watercourse will require some limited excavation toward the western end of the existing basin and will also require ground modelling. Excavation shall be carried out by hand and infilling shall be done by machine, positioned away from the trees. All such works shall be carried out under the supervision of an arboriculturist.

5. TREE PROTECTION

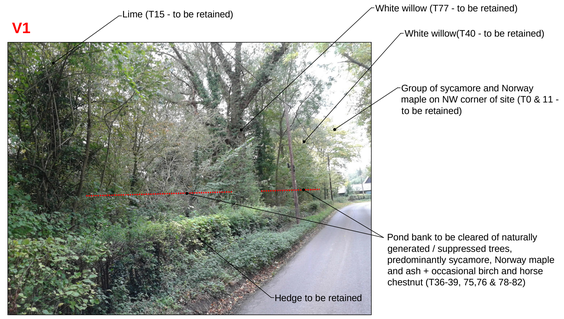
Generally
Before any machinery or materials are bought onto site Protective Barriers shall be installed where shown on the drawing. These shall be retained whilst the basin is filled and shall only be removed during supervised works. The timing of which shall be agreed in consultation with the ground works contractor and arboriculturist, prior to commencement of works.

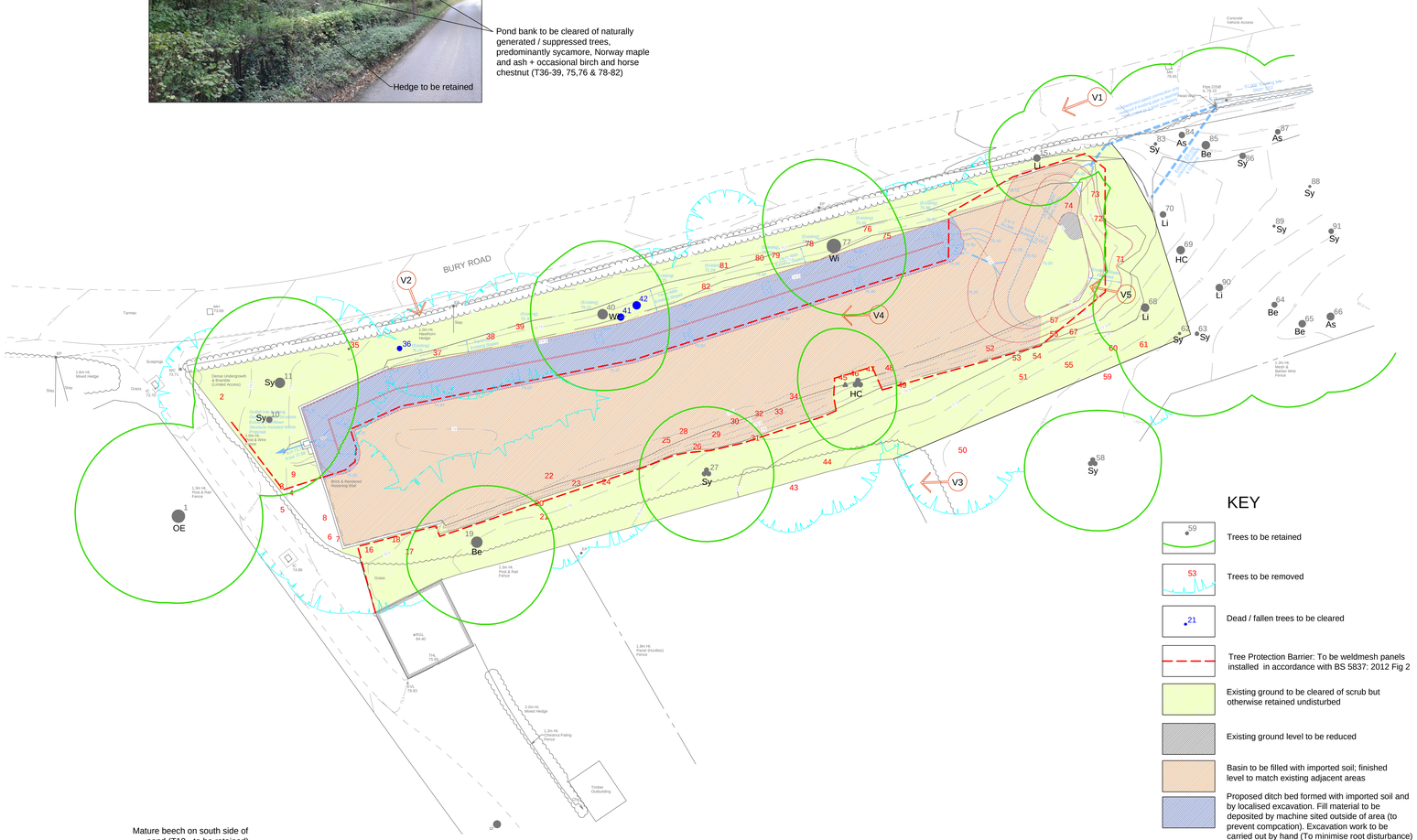
All works shall be carried out in accordance with a site specific arboricultral method statement, which shall also be completed by the arboriculturist, in consultation with the groundwork contractor, prior to commencement of works.

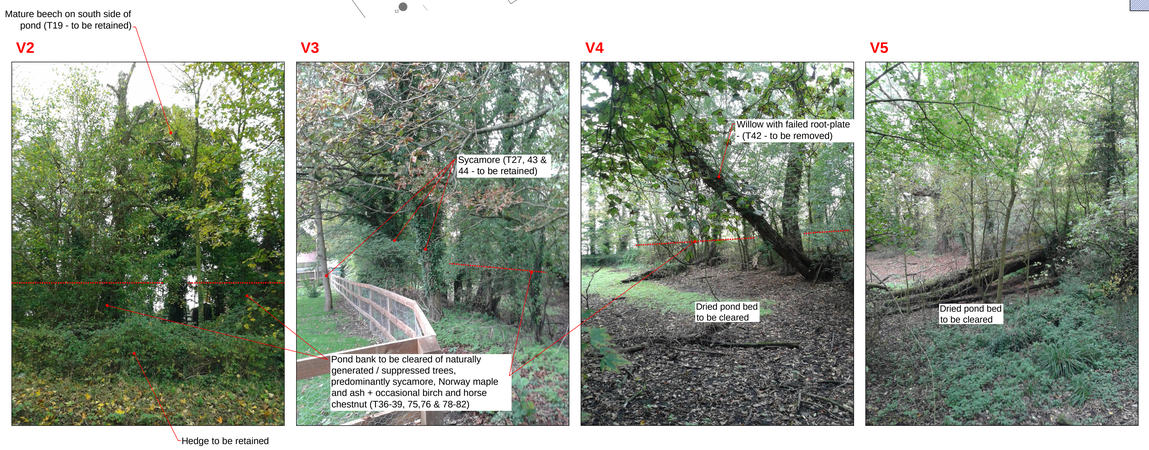
Figure 2 **Default specification for protective barrier**



Key
1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps







KEY

- Trees to be retained
- Trees to be removed
- Dead / fallen trees to be cleared
- Tree Protection Barrier: To be weldmesh panels installed in accordance with BS 5837: 2012 Fig 2
- Existing ground to be cleared of scrub but otherwise retained undisturbed
- Existing ground level to be reduced
- Basin to be filled with imported soil; finished level to match existing adjacent areas
- Proposed ditch bed formed with imported soil and by localised excavation. Fill material to be deposited by machine sited outside of area (to prevent compcation). Excavation work to be carried out by hand (To minimise root disturbance)

Tree Schedule

No.	Species	Spread	Diameter	Height	Bole	Remark
1	Oak	19.00	1.30	25.00	Single Bole	
2	Maple	13.00	0.60	20.00	Single Bole	
3	Acer	8.00	0.20	12.00	Single Bole	
4	Acer	8.00	0.20	12.00	Single Bole	
5	Acer	8.00	0.50	12.00	Multi Bole	
6	Acer	8.00	0.30	8.00	Multi Bole	
7	Ash	12.00	0.40	15.00	Single Bole	
8	Acer	14.00	1.00	15.00	Multi Bole	
9	Ash	8.00	0.40	15.00	Single Bole	
10	Acer	14.00	0.60	18.00	Single Bole	
11	Acer	18.00	1.00	20.00	Single Bole	
12	Beech	15.00	0.75	16.00	Single Bole	
13	Beech	13.00	0.45	13.00	Single Bole	
14	Ash	5.50	0.40	7.00	Single Bole	
15	Lime	10.00	0.70	12.00	Single Bole	
16	Acer	11.00	0.60	8.00	Multi Bole	
17	Acer	10.00	0.45	12.00	Single Bole	
18	Ash	10.00	0.35	14.00	Single Bole	
19	Beech	18.00	1.10	20.00	Single Bole	
20	Acer	12.00	0.80	12.00	Multi Bole	
21	Acer	8.00	0.50	10.00	Multi Bole	
22	Acer	12.00	0.80	14.00	Multi Bole	
23	Ash	7.00	0.30	15.00	Single Bole	
24	Acer	14.00	0.60	15.00	Single Bole	
25	Acer	12.00	0.50	15.00	Single Bole	
26	Ash	5.00	0.35	13.00	Single Bole	
27	Acer	14.00	0.90	14.00	Multi Bole	
28	Ash	14.00	0.50	15.00	Multi Bole	
29	Acer	7.00	0.35	15.00	Single Bole	
30	Acer	14.00	1.00	15.00	Multi Bole	
31	Acer	12.00	0.60	15.00	Multi Bole	
32	Acer	8.00	0.35	15.00	Single Bole	
33	Acer	6.00	0.25	14.00	Single Bole	
34	Ash	8.00	0.45	18.00	Single Bole	
35	Acer	5.00	0.20	12.00	Single Bole	
36	S.Birch	2.00	0.50	8.00	Single Bole	Dead
37	Acer	9.00	0.25	8.00	Single Bole	
38	Acer	9.00	0.40	12.00	Single Bole	
39	Acer	11.00	0.40	12.00	Single Bole	
40	Willow	15.00	1.00	25.00	Single Bole	
41	Willow	12.00	0.70	12.00	Single Bole	Leaning
42	Willow	12.00	0.80	6.00	Single Bole	Fallen
43	Acer	8.00	0.25	12.00	Single Bole	
44	Acer	12.00	0.35	14.00	Single Bole	
45	H.Chestnut	8.00	0.50	14.00	Multi Bole	
46	H.Chestnut	15.00	1.00	18.00	Multi Bole	
47	Acer	12.00	0.90	18.00	Multi Bole	
48	Acer	12.00	0.90	18.00	Multi Bole	
49	Acer	10.00	0.40	16.00	Single Bole	
50	Acer	12.00	0.60	12.00	Multi Bole	
51	Ash	14.00	0.55	16.00	Single Bole	
52	Acer	14.00	0.80	18.00	Multi Bole	
53	Acer	10.00	0.35	15.00	Single Bole	
54	Acer	6.00	0.25	15.00	Single Bole	
55	Ash	6.00	0.30	14.00	Single Bole	
56	Acer	6.00	0.25	14.00	Single Bole	
57	Acer	8.00	0.40	18.00	Single Bole	
58	Acer	14.00	0.90	12.00	Multi Bole	
59	Acer	10.00	0.35	14.00	Single Bole	
60	Ash	8.00	0.35	15.00	Single Bole	
61	Acer	12.00	0.40	15.00	Single Bole	
62	Acer	6.00	0.25	15.00	Single Bole	
63	Acer	12.00	0.40	15.00	Single Bole	
64	Beech	12.00	0.55	15.00	Single Bole	
65	Beech	15.00	0.70	15.00	Single Bole	
66	Ash	15.00	0.75	18.00	Single Bole	
67	Acer	7.00	0.35	15.00	Single Bole	
68	Lime	12.00	0.80	20.00	Single Bole	
69	H.Chestnut	15.00	0.80	20.00	Single Bole	
70	Lime	8.00	0.60	20.00	Single Bole	
71	Acer	8.00	0.35	20.00	Single Bole	
72	Acer	10.00	0.35	20.00	Single Bole	
73	Ash	8.00	0.35	20.00	Single Bole	
74	Ash	7.00	0.25	20.00	Single Bole	
75	H.Chestnut	4.00	0.25	6.00	Single Bole	
76	H.Chestnut	7.00	0.35	15.00	Single Bole	
77	Willow	18.00	1.40	25.00	Single Bole	
78	Acer	7.00	0.25	12.00	Single Bole	
79	Acer	7.00	0.20	10.00	Single Bole	
80	Acer	7.00	0.20	10.00	Single Bole	
81	Ash	8.00	0.30	18.00	Single Bole	
82	Ash	8.00	0.35	18.00	Single Bole	
83	Acer	8.00	0.30	14.00	Single Bole	
84	Ash	12.00	0.60	20.00	Single Bole	
85	Beech	15.00	0.80	20.00	Single Bole	
86	Acer	12.00	0.60	20.00	Single Bole	
87	Ash	12.00	0.50	20.00	Single Bole	
88	Acer	8.00	0.25	18.00	Single Bole	
89	Acer	7.00	0.25	18.00	Single Bole	
90	Lime	14.00	0.70	20.00	Single Bole	
91	Acer	12.00	0.50	20.00	Single Bole	

The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

Revisions :

Land & Sculpture Design Partnership
LANDSCAPE ARCHITECTURE · SCULPTURE · ARBORICULTURE

CLIENT : Thurlow Estate
SITE : Former Pond - Bury Road, Thurlow
DRG : Proposed vegetation clearance
DRN BY : GH
SCALE : 1:200 @ A0
DATE : February 2021
No : LSDP 1408-011

OCTAGON HOUSE · THE WATER RUN · HITCHAM · IPSWICH · 1P7 7LN
T : 01449 740272 · E : LSDP@btinternet.com