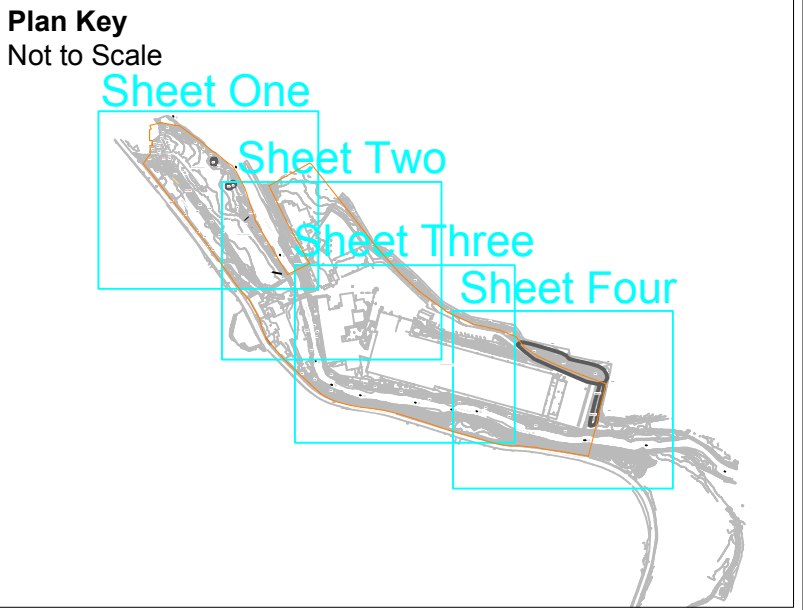
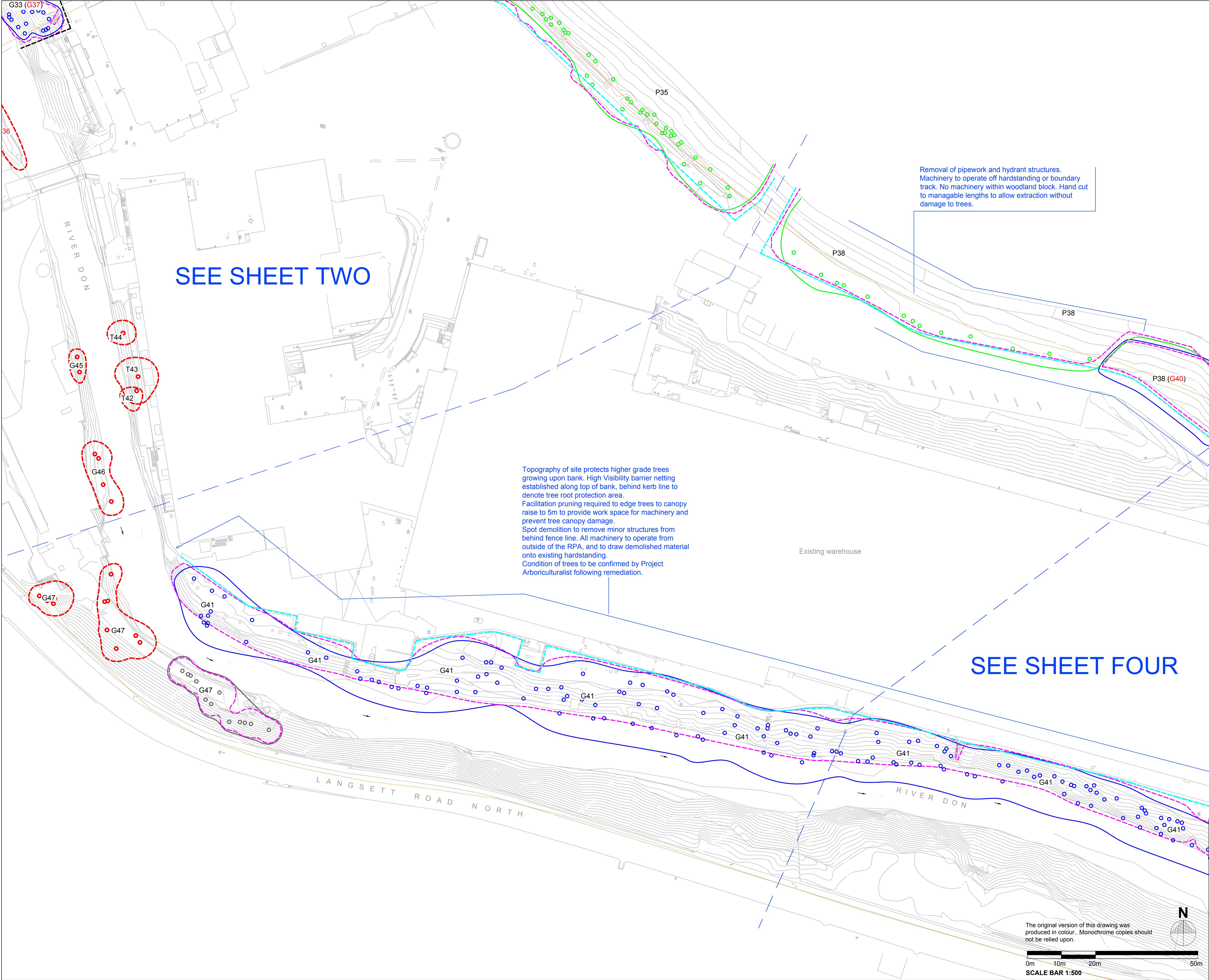




- GENERAL NOTES - TREE PROTECTION PLAN**
- Drawing for Planning purposes only.
 - Refer to arboricultural report produced by ECUS Ltd titled 10674 Oughtibridge Mill.
 - Based on topographic survey provided by Met Geo Environmental dated 07/07/2016.
 - Refer to Engineer's details for level and drainage information.
 - Check all dimensions on site.
 - Do not scale from this drawing.
 - Report any discrepancies and omissions to Ecus Ltd.
 - This drawing is Copyright.

3RD-PARTY INFORMATION
NB This drawing includes information provided by independent surveyors and / or consultants, to whom all queries shall be made. Ecus Ltd can accept no liability for its context or accuracy. Tree locations and categories have been copied directly from JCA Ltd drawing 12563-D/AJB and assumed to be correct.

- KEY**
- Trunk location from topographic and JCA LTD survey. Colour denotes tree category.
- Tree categories (BS 5837:2012)
- | Category | Category | Category | Existing tree |
|----------|----------|----------|---------------|
| A Trees | B Trees | C Trees | to be removed |

Tree References

Tree/Group/Woodland reference numbers correspond to those used in JCA report 12563/AJB

Reference numbers in **RED** correspond to those numbers used in JCA report 12563-D/AJB (Table 1, Appendix 3 of ECUS report 10674)

- Root Protection Area (RPA) of trees to be retained
- Protective Barrier - BS5837 (2012), clause 6.2.2
- Protective Barrier - Heavy duty high-visibility orange site netting held in place with road spikes. See Report Clause 2.5.3 and Figure 3.2.

Numerous trees on site are covered by Tree Preservation Order ref. 808/021 and 808/036. Check individual schedules and on site with Sheffield City Council to determine exact coverage.

C	01.12.17	PS	ECUS	Renumbering of trees, changes to removals NW corner
B	10.11.17	PS	ECUS	Changes to removals
A	03.11.17	PS	ECUS	Preliminary
REV	DATE	DRAWN BY	CHECKED BY	REVISION COMMENT

DRAWING STATUS: For Planning

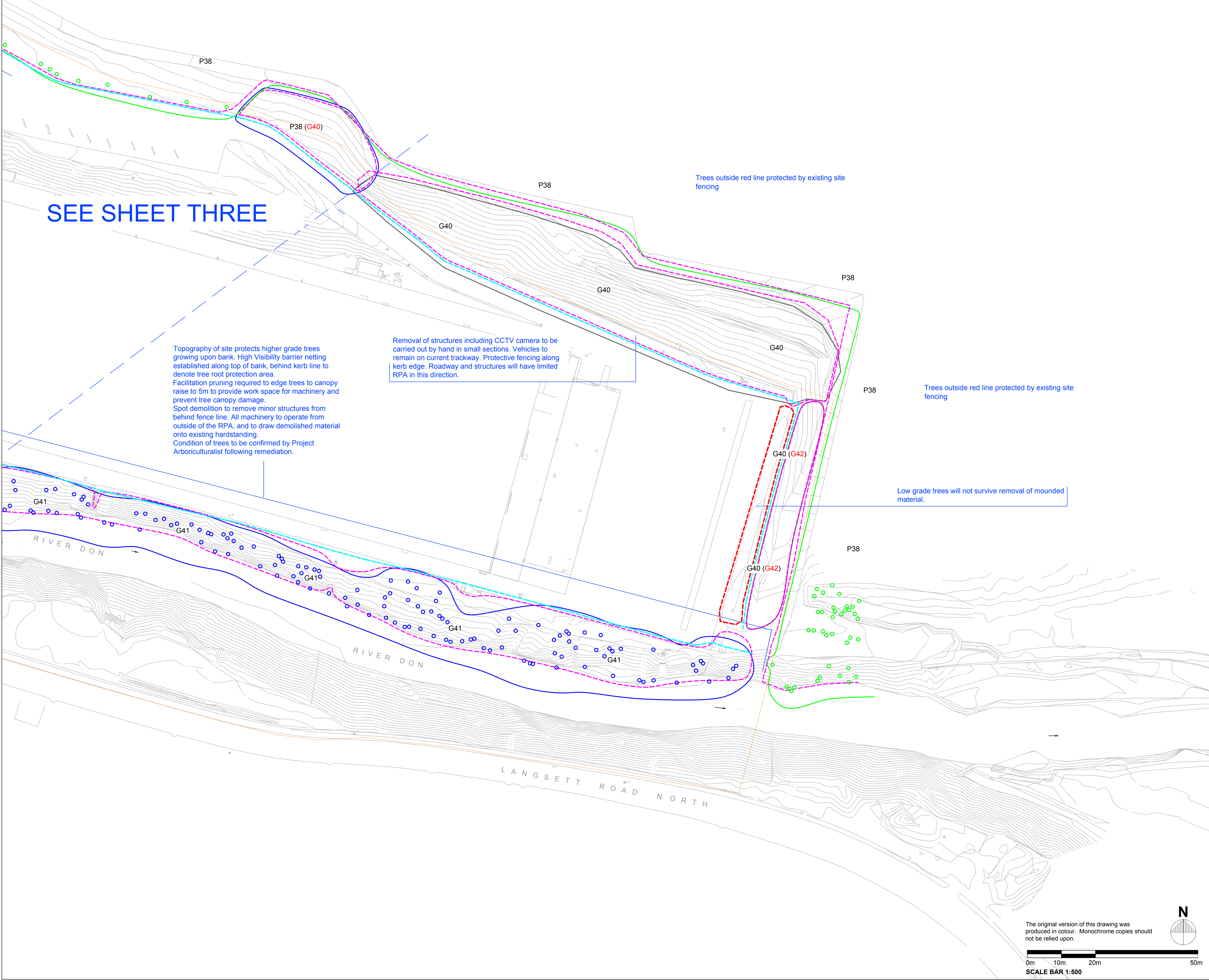
ecus
ENVIRONMENTAL CONSULTANTS

Brook Holt
Blackburn Road
Sheffield S61 2DW
Tel. (0114) 2669292
www.ecusltd.co.uk

Job
**10674 Oughtibridge Mill
Demolition and Remediation**

Title
**Figure 3.3
Tree Protection Plan
Sheet 3 of 4**

By PS	Date Nov 2017	Scale @ A1 1:500	Drg. no. 10674-ARB-03
-----------------	-------------------------	----------------------------	---------------------------------



SEE SHEET THREE

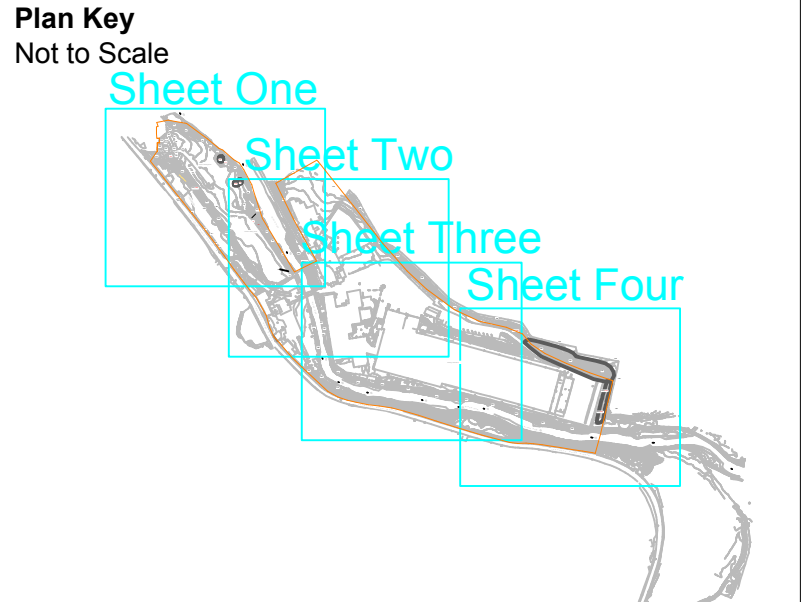
Topography of site protects higher grade trees growing upon bank. High Visibility barrier netting established along top of bank, behind kerb line to denote tree root protection area. Facilitation pruning required to edge trees to canopy raise to 5m to provide work space for machinery and prevent tree canopy damage. Spot demolition to remove minor structures from behind fence line. All machinery to operate from outside of the RPA, and to draw demolished material onto existing hardstanding. Condition of trees to be confirmed by Project Arboriculturalist following remediation.

Removal of structures including CCTV camera to be carried out by hand in small sections. Vehicles to remain on current trackway. Protective fencing along kerb edge. Roadway and structures will have limited RPA in this direction.

Trees outside red line protected by existing site fencing

Trees outside red line protected by existing site fencing

Low grade trees will not survive removal of mounded material.



GENERAL NOTES - TREE PROTECTION PLAN
- Drawing for Planning purposes only.
- Refer to arboricultural report produced by ECUS Ltd titled 10674 Oughtibridge Mill.
- Based on topographic survey provided by Met Geo Environmental dated 07/07/2016.
- Refer to Engineer's details for level and drainage information.
- Check all dimensions on site.
- Do not scale from this drawing.
- Report any discrepancies and omissions to Ecus Ltd.
- This drawing is Copyright.

3RD-PARTY INFORMATION
NB This drawing includes information provided by independent surveyors and / or consultants, to whom all queries shall be made. Ecus Ltd can accept no liability for its context or accuracy. Tree locations and categories have been copied directly from JCA Ltd drawing 12563-D/AJB and assumed to be correct.

KEY
Trunk location from topographic and JCA LTD survey. Colour denotes tree category.
Tree categories (BS 5837:2012)
Category A Trees (Green circle)
Category B Trees (Blue circle)
Category C Trees (Grey circle)
Existing tree to be removed (Red dashed circle)

Tree References
Tree/Group/Woodland reference numbers correspond to those used in JCA report 12563/AJB
Reference numbers in **RED** correspond to those numbers used in JCA report 12563-D/AJB (Table 1, Appendix 3 of ECUS report 10674)

Root Protection Area (RPA) of trees to be retained (Pink dashed line)
Protective Barrier - BS5837 (2012), clause 6.2.2 (Black dashed line)
Protective Barrier - Heavy duty high-visibility orange site netting held in place with road spikes. See Report Clause 2.5.3 and Figure 3.2. (Cyan dashed line)

Numerous trees on site are covered by Tree Preservation Order ref. 808/021 and 808/036. Check individual schedules and on site with Sheffield City Council to determine exact coverage.

C	01.12.17	PS	ECUS	Renumbering of trees, changes to removals NW corner
B	10.11.17	PS	ECUS	Changes to removals
A	03.11.17	PS	ECUS	Preliminary
REV	DATE	DRAWN BY	CHECKED BY	REVISION COMMENT

DRAWING STATUS: For Planning

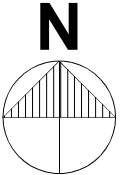
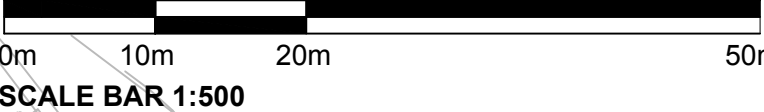
Brook Holt
Blackburn Road
Sheffield S61 2DW
Tel. (0114) 2669292
www.ecusltd.co.uk

Job
**10674 Oughtibridge Mill
Demolition and Remediation**

Title
**Figure 3.4
Tree Protection Plan
Sheet 4 of 4**

By PS	Date Nov 2017	Scale @ A1 1:500	Drg. no. 10674-ARB-04
-----------------	-------------------------	----------------------------	---------------------------------

The original version of this drawing was produced in colour. Monochrome copies should not be relied upon.



Appendix 3 – Updated Tree Descriptions and Recommendations JCA Report reference 12563-D/AJB May 2017

Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
G 1	Semi-mature Common Ash and Goat Willow <i>Fraxinus excelsior</i> and <i>Salix caprea</i>	To 9	0+	0+ n/a	To 23	See plan	2 trees of poor and leaning form located on river bank. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥10	C 1
G 2	Early-mature to mature Black Pine <i>Pinus nigra</i>	To 16	0+	0+ n/a	To 60	See plan	A row of approximately 10 trees, each of vertical and reasonably balanced form. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	MOD	≥40	1 B 2
G 3	Semi-mature to mature Mixed <i>Details in observations</i>	To 15	0	0 n/a	To 50#	See plan	Trees of reasonable form located on river bank. Common Ash, Elm sp., Sycamore and Goat Willow. Limited inspection due to poor terrain.	No action required. n/a	GOOD	GOOD	MOD	HIGH	≥40	1 B 2
G 4	Semi-mature to mature Mixed <i>Details in observations</i>	To 17	0	0 n/a	To 60#	See plan	Sycamore, Elm sp., Crack Willow, Common Alder and Poplar sp. of poor leaning form located on river bank. Included bark on many of the multiple stemmed trees within the group. Some of the trees located to the southwest are hanging low and heavy over the potential development area. Limited inspection due to restricted access.	Monitor biennially. Low	POOR	GOOD	MOD	HIGH	≥20	C 2
G 5	Semi-mature Mixed <i>Details in observations</i>	To 14	1	1 n/a	To 25	See plan	Two trees of a poor and leaning form.	No action required. n/a	GOOD	FAIR	LOW	MOD	10+	C 2
G 6	Early-mature to mature Mixed <i>Details in observations</i>	To 18	0	0 n/a	To 80#	See plan	Common Ash, Goat Willow, Sycamore and Common Alder of reasonably well balanced and vertical form located on river bank. Deadwood, torn branches and decay cavities throughout. Some dead stems present, as shown indicated on the attached plan. Ivy to stems, poor terrain, limited access and dense vegetation prevented a detailed inspection.	Crown clean. Monitor biennially. Low	GOOD	FAIR	MOD	MOD	≥40	1 B 2
T 7	Early-mature Poplar sp. <i>Populus sp.</i>	19	4	4 n/a	35	6 7 3 5	Single-stemmed and leaning with an unbalanced crown and a poor form	No action required. n/a	GOOD	FAIR	LOW	HIGH	10+	C 2
G 8	Mature Sycamore and Common Ash <i>Acer pseudoplatanus</i> and <i>Fraxinus excelsior</i>	To 18	4+	4+ n/a	To 80#	See plan	5 trees of vertical and reasonably balanced form located on what appears to be unstable ground which has had recent ground level changes. Many snapped out limbs noted as well as moderate deadwood, decay cavities, and bark wounds. Ivy prevented a detailed inspection.	Crown clean. Remove the Ivy and inspect the stems for defects. Monitor biennially. Low	FAIR	POOR	MOD	MOD	10+	C 2
T 9	Semi-mature Sycamore <i>Acer pseudoplatanus</i>	15	1	1 n/a	20 x 3	4 3 4	Twin-stemmed at ground level with a balanced crown. No evidence of significant pruning. Insignificant tree.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 2

Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
G 10	Young to semi-mature Common Ash <i>Fraxinus excelsior</i>	To 14	0+	0+ n/a	To 20	See plan	A self-seeded tree group containing trees of little significance.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 2
T 11	Early-mature Sycamore <i>Acer pseudoplatanus</i>	16	1	3 S	45 & 40	6 6 4 7	Twin-stemmed at ground level with a slightly unbalanced crown. No evidence of significant pruning. Poor union present at the base. Ivy prevented a detailed inspection	No action required. n/a	GOOD	FAIR	LOW	MOD	20+	C 2
T 12	Early-mature Sycamore <i>Acer pseudoplatanus</i>	17	3	3 n/a	38	5 3 5	Single-stemmed and vertical with a slightly unbalanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 2
G 13	Semi to early-mature Mixed <i>Details in observations</i>	To 13	0	0 n/a	To 25#	See plan	A group of Common Alder and Goat Willow of poor individual form located behind a fence adjacent to the river. Limited inspection due to poor terrain, dense vegetation and limited access.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2
G 14	Early-mature Leylandii <i>X Cupressocyparis leylandii</i>	To 17	0	0 n/a	To 35	See plan	A small row of trees of vertical form located close to the boundary, possibly an overgrown hedge.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 1
G 15	Semi-mature Elm sp. <i>Ulmus sp.</i>	To 9	0	0 n/a	To 22	See plan	Self-seeded trees of little significance. Some dead and fallen stems present.	Remove the dead and fallen trees from the group. Low	GOOD	FAIR	LOW	HIGH	≥20	C 1
T 16	Mature Leylandii <i>X Cupressocyparis leylandii</i>	14	0	0 n/a	50#	2.5 2.5 2.5 2.5	Single-stemmed and vertical with a balanced crown. No evidence of significant pruning. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 1
T 17	Mature Sycamore <i>Acer pseudoplatanus</i>	16	6.5	6 SE	74	6.8 7.8 7 8.2	Single-stemmed and vertical with a balanced crown. Multiple pruning wounds due to crown lifting. Minor deadwood. Poor bud formation may indicate the onset of crown die-back.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	10+	C 1
T 18	Mature Sycamore <i>Acer pseudoplatanus</i>	16	5	5 E	76	7.8 7.5 6 5	Twin-stemmed at 2.5m with a balanced crown. Occasional pruning wounds, one with decay noted. Metal objects present in stem. Cavities noted on side limbs. Minor deadwood.	Crown clean. Monitor biennially. Low	GOOD	GOOD	MOD	MOD	≥40	1 B 2
G 19	Semi-mature Leylandii <i>X Cupressocyparis leylandii</i>	To 8	0	0 n/a	To 20	See plan	2 trees of vertical and balanced form. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2

Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
H 20	Semi-mature Leylandii <i>X Cupressocyparis leylandii</i>	To 7	0	0 n/a	To 25	See plan	A partially maintained boundary hedge with the occasional Norway Spruce noted within. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2
G 21	Semi-mature Goat Willow <i>Salix caprea</i>	To 13	0	0 n/a	To 30	See plan	4 trees of low overall value. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2
T 22	Mature Sycamore <i>Acer pseudoplatanus</i>	15	3.5	3.5 W	61	3 5.5 4	Single-stemmed and vertical with a balanced crown. Previously topped with poor form to the re-growth above the past topping point. Decay cavities at 4m.	Monitor biennially. Low	POOR	FAIR	LOW	MOD	≥10	C 2
T 23	Mature Sycamore <i>Acer pseudoplatanus</i>	18	8	8 n/a	70#	8# 6# 5# 7#	Single-stemmed and vertical with a balanced crown. No evidence of significant pruning. No major visible defects. Minor deadwood and stubs present.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	1 B 2
G 24	Semi-mature to mature Mixed <i>Details in observations</i>	To 20	0+	0+ n/a	To 50	See plan	A group of Sycamore and Leylandii of good form overhanging the footpath and the road. Minor deadwood and decay cavities noted.	No action required. n/a	GOOD	GOOD	MOD	MOD to HIGH	40+	1 B 2
G 25	Semi-mature to mature Mixed <i>Details in observations</i>	To 17	0	0 n/a	To 80#	See plan	Sycamore, Common Ash and Elm sp. of poor individual form located on steep bank. Deadwood, bark wounds and decay cavities noted throughout. Limited inspection due to poor terrain.	Crown clean. Monitor biennially. Low	GOOD	GOOD	MOD	HIGH	≥40	1 B 2
G 26	Semi to early-mature Mixed <i>Details in observations</i>	To 18	0+	0+ n/a	To 70	See plan	Norway Maple, Common Ash and Sycamore of reasonably well balanced form located on a steep bank. Minor deadwood and decay cavities throughout. Lesser value trees are present within the understory.	No action required. n/a	GOOD	GOOD	MOD	MOD	40+	1 B 2
G 27	Semi to early-mature Mixed <i>Details in observations</i>	To 15	0	0 n/a	To 50#	See plan	Dense group of Sycamore, Common Ash, Elder, Elm sp. and Norway Maple of poor individual form located on bank. Limited inspection due to dense vegetation and poor terrain.	No action required. n/a	FAIR	GOOD	MOD	HIGH	≥20	C 2
G 28	Semi to early-mature Cypress <i>Cupressus sp.</i>	To 12	0	0 n/a	To 20	See plan	4 trees of balanced form with low arboricultural value.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2
T 29	Early-mature Common Ash <i>Fraxinus excelsior</i>	17	5	6 S	50#	9.5 5 5 0	Twin-stemmed at 2m with an unbalanced crown and a very poor form. A severe bark wound is present in the upper crown.	Remove. Low	POOR	GOOD	LOW	MOD	≥0	U
G 30	Early-mature Common Alder and Sycamore <i>Alnus glutinosa & Acer pseudoplatanus</i>	To 15	2+	2+ n/a	To 50	See plan	Trees which are generally multiple-stemmed and of poor overall form located within area of re-graded earth which is covering their rooting zones.	Monitor biennially. Low	FAIR	FAIR	LOW	MOD	≥10	C 2

Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
T 31	Early-mature Common Alder <i>Alnus glutinosa</i>	14	2	2 n/a	50 + 45	3 2 3 2	Twin-stemmed at 6m with an unbalanced crown. Severe dieback and major deadwood to crown.	Remove. Low	POOR	POOR	LOW	MOD	≥0	U
T 32	Early-mature Rowan <i>Sorbus aucuparia</i>	7	1	1 n/a	30	2.5 1 4 3	Single-stemmed and leaning with an unbalanced crown and poor form. Occasional pruning wounds. Limited inspection due to restricted access.	Monitor biennially. Low	GOOD	POOR	MOD	MOD	≥10	C 2
H 33	Semi-mature Leylandii <i>X Cupressocyparis leylandii</i>	To 3	0	0 n/a	To 10	See plan	Maintained hedge. No major visible defects.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2
T 34	Early-mature Common Oak <i>Quercus robur</i>	11	3	3 n/a	48#	5# 3 5# 5#	The crown overhangs the footpath, road and overhead cables. Single-stemmed and vertical with an unbalanced crown. One sided due to past pruning. Limited inspection due to restricted access.	No action required. n/a	FAIR	GOOD	MOD	HIGH	≥20	C 2
G 35	Early-mature Scots Pine <i>Pinus sylvestris</i>	To 13	8	8# n/a	To 30#	See plan	The crowns overhang the footpath, road and overhead cables. Two trees growing close together, both are single stemmed and vertical with balanced crowns. Multiple pruning wounds due to crown lifting. No major visible defects. Limited inspection due to restricted access.	No action required. n/a	GOOD	FAIR	MOD	MOD	≥10	C 2
G 36	Semi-mature Sycamore <i>Acer pseudoplatanus</i>	To 13	0+	0+ n/a	To 25#	See plan	Approximately 5 trees of reasonable form located adjacent to the riverside. Not fully inspected to to restricted access.	No action required. n/a	GOOD	GOOD	LOW	MOD	20+	C 2
G 37	Young to mature Mixed <i>Details in observations</i>	To 18#	0	0 n/a	To 45#	See plan	Group of Sycamore, Silver Birch and Common Ash located adjacent to river bank. Limited inspection due to restricted access.	No action required. n/a	GOOD	GOOD	LOW	MOD	≥40	1 B 2
P 38	Semi to early-mature Mixed <i>Details in observations</i>	To 12#	0	0 n/a	To 40#	See plan	Silver Birch, Goat Willow, Scots Pine, European Larch, Common Oak and Rowan. A mixed plantation of coniferous and broad leaf species of good quality. A pipeline is present just within the boundary.	No action required. n/a	GOOD	GOOD	MOD	HIGH	≥40	1 A 2
P 39	Semi to early-mature Mixed <i>Details in observations</i>	To 17	0	0 n/a	To 50#	See plan	A mainly coniferous plantation containing Scots Pine, European Larch, Red Oak, Sweet Chestnut, Silver Birch and Common Oak of good quality. A pipeline and other features are present within the boundary.	No action required. n/a	GOOD	GOOD	MOD	MOD to HIGH	≥40	1 A 2
G 40	Young to early-mature Mixed <i>Details in observations</i>	To 14	0+	0+ n/a	To 30#	See plan	Possibly planted Silver Birch, Goat Willow, English Oak and European Larch in a dense group. No major visible defects. Not fully inspected due to dense vegetation.	No action required. n/a	GOOD	GOOD	LOW	MOD to HIGH	40+	1 B 2

Tree Ref.	Age Common Name Botanical Name	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations Priority	Physiological Condition	Structural Condition	Amenity Value	NHBC Water Demand	Life Expectancy (yrs)	Retention Category
G 41	Young to early-mature Mixed <i>Details in observations</i>	To 14	0+	0+ n/a	To 30#	See plan	A dense mass of what are presumed to be self-seeded Goat Willow and Silver Birch. No major visible defects. Not fully inspected due to dense vegetation.	No action required. n/a	GOOD	GOOD	LOW	MOD to HIGH	20+	C 2
G 42	Young to semi-mature Mixed <i>Details in observations</i>	To 13	0+	0+ n/a	To 25#	See plan	A dense mass of what are presumed to be self-seeded Goat Willow and Silver Birch. It is unlikely that these trees will survive the remediation process of removing the earth pile that is located upon the group.	Remove. Low	FAIR	FAIR	LOW	MOD	<10	U
G 43	Young to mature Mixed <i>Details in observations</i>	To 18	0	0 n/a	To 60#	See plan	A riverside group of Common Oak, Goat Willow, Cypress sp., Silver Birch, Common Alder and Sycamore. Deadwood and broken branches noted throughout. Not fully inspected due to restricted access.	No action required. n/a	GOOD	GOOD	MOD	HIGH	≥40	1 B 2
T 44	Mature Common Oak <i>Quercus robur</i>	14	0	0 n/a	50#	1# 5# 2# 6.5#	Single-stemmed and vertical with an unbalanced crown. No evidence of significant pruning. No major visible defects. Not fully inspected due to limited access.	No action required. n/a	GOOD	GOOD	LOW	HIGH	≥20	C 2
T 45	Mature Beech <i>Fagus sylvatica</i>	15	0	0 n/a	80#	6# 7# 2 3#	Single-stemmed and vertical with an unbalanced crown. No evidence of significant pruning. No major visible defects. Not fully inspected due to limited access.	No action required. n/a	GOOD	GOOD	LOW	MOD	≥20	C 2
T 46	Early-mature Sycamore <i>Acer pseudoplatanus</i>	13	0	0 n/a	50#	4# 5# 2# 2#	Single-stemmed and vertical with an unbalanced crown. No evidence of significant pruning. No major visible defects. Decay cavity at 1m. Not fully inspected due to limited access.	No action required. n/a	GOOD	GOOD	LOW	MOD	≥20	C 2
G 47	Semi-mature Mixed <i>Details in observations</i>	To 11	0	0 n/a	To 20#	See plan	Self-seeded riverside Sycamore and Common Ash of low value. Limited inspection due to restricted access.	No action required. n/a	GOOD	FAIR	LOW	MOD	≥10	C 2
G 48	Semi to early-mature Mixed <i>Details in observations</i>	To 14	0	0 n/a	To 40#	See plan	Crack Willow and Common Ash of poor form and low value. Many decayed and broken branches noted. Limited inspection due to restricted access.	Remove. Low	POOR	FAIR	LOW	MOD to HIGH	≥0	U
G 49	Semi-mature-Early-mature Mixed <i>Details in observations</i>	To 16	0	0 n/a	To 55#	See plan	Dense area of Sycamore, Elm sp., Common Ash and Common Oak of poor individual form. Deadwood and broken limbs noted throughout. Limited access prevented a detailed inspection.	Crown clean. Low	POOR	GOOD	MOD	MOD to HIGH	≥20	C 2