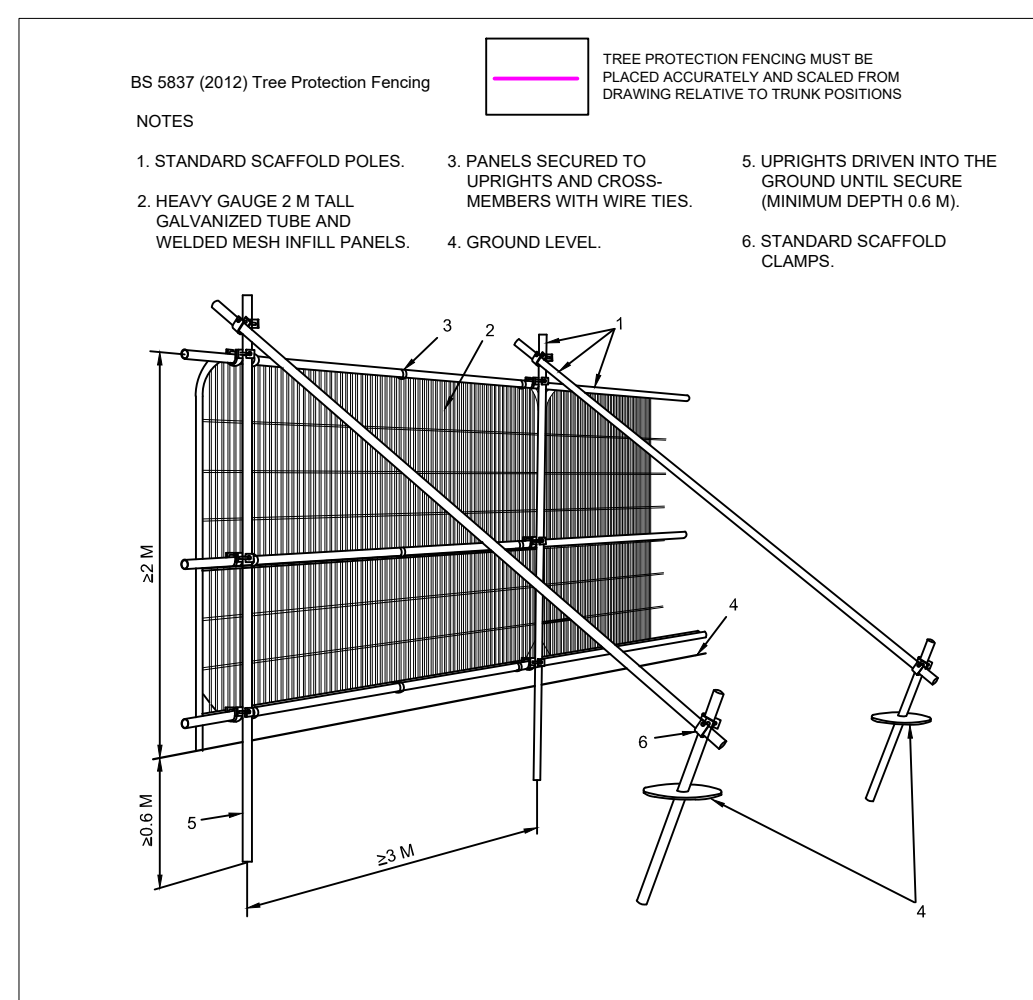


CONSTRUCTION, INSTALLATION OF NON-DIG PATHS, SOIL AMEILORATION AND LANDSCAPING.

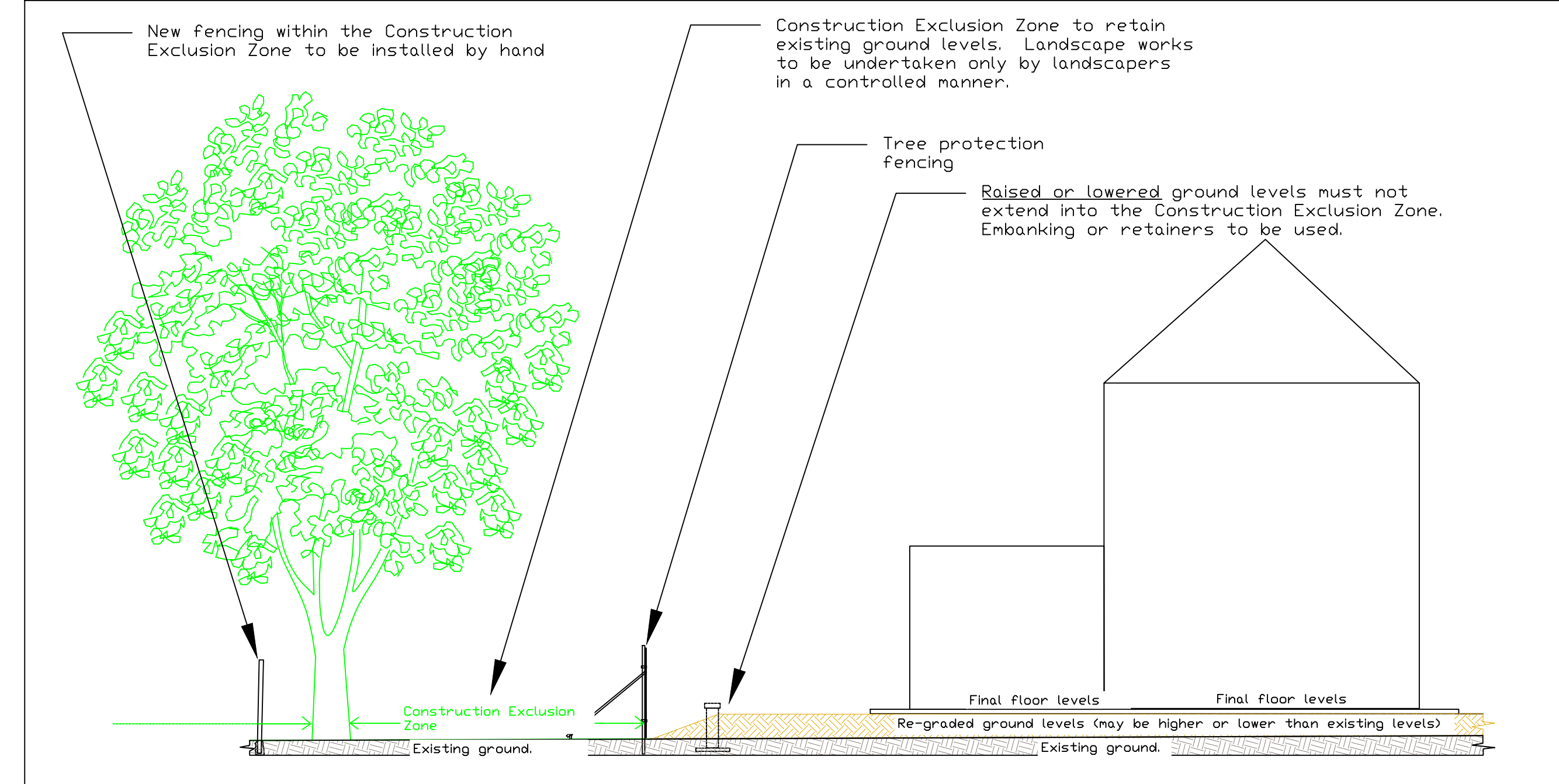


- TREES/GROUPS TO BE RETAINED**
- TREE PROTECTION FENCING**
- GROUND PROTECTION BOARDS FOR WORKING AREA FOR CONSTRUCTION OF WALL**
- CONSTRUCTION EXCLUSION ZONES**
- GEOTEXTILE CELLULAR CONFINEMENT SYSTEM (CELLWEB) FOR INSTALLATION OF PERMANENT HARD SURFACE**
- ZONES OF ROOT PLATE AMELIORATION: REMOVAL OF EXISTING TURF, LIGHT AGITATION OF SOIL LAYER, ADDITION OF IMPROVED BIO-CHAR ADDITIVE AND PLACEMENT OF WOODCHIP MULCH LAYER.**

THIS DRAWING MUST BE VIEWED IN COLOUR AND READ IN CONJUNCTION WITH ARBORICULTURAL IMPACT ASSESSMENT AND METHOD STATEMENT



GROUND LEVEL CHANGES ADJACENT RETAINED TREES AND VEGETATION - NO CHANGES TO OCCUR WITHIN CONSTRUCTION EXCLUSION ZONES



Phase	Requirements	Method
1	Understand tree and vegetation removal	Refer to section 5.5 of AIA/MS report.
Prior to erection of protective fencing	Trees/vegetation to be removed:	All tree works to be carried out to BS3998: 2010 by suitably qualified and insured professional tree surgeons.
		The following tree felling must be undertaken at this Phase:
		Items requiring removal:
1T	Dead Cherry	
2T	False Acacia	
3T	False Acacia	
4T	Horse Chestnut	
5T	Variegated Holly	
6T	Decodar Cedar	
7T	Dead Hawthorn	
8T	Horse Chestnut	
9T	Beech	
10T	Hornbeam	
11T	Whitebeam	
12T	Cypress	
13T	Rowan	
14T	2x Holly and 1x Cherry	
15T	Common Oak, Goat Willow and Silver Birch	
16T	6x Goat Willow	
17T	4x Ash, 2x Hawthorn, 1x Oak, 1x Elm	
18T	Ash	
19T	Beech	
20T	Hornbeam	
21T	Beech	
22T	3x Holly & 1x Silver Birch	
23T	Holly	
24T	Whitebeam	
25T	Silver Birch	
26T	Juniper, Lawson's Cypress, 2x Whitebeam, Common Oak	
27T	2x Ash	
28T	Ash	
29T	2x Ash, 1x Horse Chestnut and 1x Dead Tree	
30T	Ash	
31T	Sycamore	
32T	2x Flowering Cherry	
33T	Hawthorn and Holly	
34T	Mixed Species Group (Partial removal only)	
35T	Stumps of trees/groups must be removed using a self powered stump-grinder	

1 Cont.	Understand tree pruning	Refer to section 5.5 of AIA/MS report.
Prior to erection of protective fencing	Tree pruning:	All tree works to be carried out to BS3998: 2010 by suitably qualified and insured professional tree surgeons.
		The following tree pruning must be undertaken at this Phase:
		Items requiring pruning:
20T	Lime. Undertake a 20% overall canopy reduction due to the tree's location within garden plot.	
21T	Sycamore. Undertake a 20% overall canopy reduction due to the tree's location within garden plot.	
22T	Horse Chestnut. Undertake a 20% overall canopy reduction due to the tree's location within garden plot.	
24T	Sycamore. Undertake a 20% overall canopy reduction due to the tree's location within garden plot. Also remove major deadwood.	
26T	Lime. Undertake a 20% overall canopy reduction due to the tree's location within garden plot. Also remove major deadwood.	
27T	Lime. Undertake a 20% overall canopy reduction due to the tree's location within garden plot. Also remove major deadwood.	
28T	Lime. Undertake a 20% overall canopy reduction due to the tree's location within garden plot. Also remove major deadwood.	
30T	Sycamore. Reduce the lateral canopy spread to the west by approximately 2m to provide clearance for construction.	
31T	Sycamore	
32T	2x Flowering Cherry	
33T	Hawthorn and Holly	
34T	Mixed Species Group (Partial removal only)	
35T	Stumps of trees/groups must be removed using a self powered stump-grinder	

2	Erection of protective fencing	Protective fencing is to be erected in accordance with 5.6 of AIA/MS report.
Prior to any construction works on site	To retain throughout the duration of the development.	The fencing must comply with the positions shown in the Tree Protection Plan. A scale copy of the Tree Protection Plan must be used as reference and fencing positions measured from the Plan using a scale rule and/or using the provided distances where shown.
		No works, no storage of materials, no access, or any ground disturbance is to take place within the Tree Protection Barrier Fencing other than works specified within the Arboricultural Method Statement. Fenced areas are to be treated as Construction Exclusion Zones.
		Warning signs to be placed on all protective fencing. For large sections of fencing the signs must be placed at 20m intervals.
		Signs must be laminated and securely attached at all corners. Two signs are to be placed side by side, copies of which are attached within Appendix A.

3	Verify that the location and quality of tree protection barriers	Site visit with Arboricultural Consultant and Site Manager.
Prior to any construction works on site		Tree Officer to be pre-informed of visit.
		In order for set works to proceed the pro-forma in Appendix B of the AIA/MS report is to be completed and passed on to the local planning authority.
		If the protective barriers are not adequately, work is not to proceed until rectified.

4	Ongoing	The tree protective barrier fencing is to remain in situ during all demolition & construction works.
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5	Removal of hard surface areas	1. Present during the work must be the project arboriculturalist, site manager and site operatives. 2. A panel from the protective fencing is to be removed in order to access the works area. 3. Prybars and/or jackhammer to be used to break edges of surface nearest the trees. 4. A mechanical digger to be used to peel away surface of existing road. 5. Mechanical plant is to operate from the intact surfaces of the road, working back. 5. The sub-base of exposed sections of road to be regularly checked by the project arboriculturalist for the presence of roots. If roots are encountered, the project arboriculturalist will advise on whether further excavation shall take place, or how further excavation shall occur. A layer of no-more than 150mm depth good quality top soil to be placed over the removed hard surface to allow for subsequent laying of turf.
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6	Ground protection required	A layer of Terram 1000 geotextile to be laid down, with ground protection boards (see appendix C) to be laid on-top. Only mini-plant can operate in this location, and must operate on the ground protection boards only.
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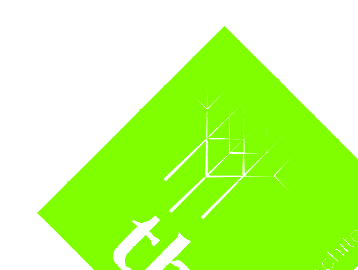
7	Installation of geotextile cellular confinement system	Installation of non-dig pavement surfaces: A three dimensional cellular confinement system is to be utilised (Cellweb). Guidance for the installation of the Cellweb is attached within Appendix D. Cross section details are to be provided (in conjunction with engineer and Cellweb recommendations). Technical specifications required, as well as cross section details relevant to the site can be provided by Cellweb supplier, Geosynthetic (01455 617139). Email Sales@geosyn.co.uk. Tree barrier protective fencing is to be moved only immediately prior to the installation of the Cellweb. The installation is to be carried out under Arboricultural Supervision. The ground layer in which Cellweb is to be installed is to be subject only to removal of existing turf layer. Adjoining levels must marry with the required depth of the Cellweb, not vice versa. Once Cellweb is installed the protective fencing is to be relocated immediately adjacent the installed areas of Cellweb.
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8	Improvement of root protection zones	The following steps are to be taken: 1. An area of existing turf is to be carefully removed around both of the trees to a maximum radius of 3.5m (where space allows). The turf is to be removed using hand tools/ hand operated tools only. Removed turf is to be removed from site. 2. The exposed section of soil is to be lightly spiked with a fine spoke fork. This should comprise some 5 insertions per M ² . The intention is not to tiller soil but improve aeration and allow some penetration of soil improver. No insertions are to be made within 1m of the tree trunk to avoid larger structural roots. 3. A soil improver is to be applied over the exposed soil area. This is to comprise an enhanced biochar powder at a rate of some 1kg per M ² . 4. Once biochar has been applied, the treated area is to be covered in a woodchip mulch to a thickness no less than 75mm. Care must be taken to ensure clearance of the root-collar of the trees. 5. A knee high rail fence is to be hand installed around the area of the trees.
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9	Landscaping and dismantling of tree barrier protective fencing	It is essential that ground levels within the root protection areas are not altered, either by raising or lowering soil levels, even at the landscaping stage. Landscaping operations must be undertaken in a manner that will not impact trees. Landscaping within the root protection area of trees must be undertaken in the following manner: 1. Any existing ground flora (grass/weeds/crobs) is to be sprayed with a systemic herbicide and left to die-off. 2. Dead flora is to be stripped as hard as possible with a brush cutter or similar. The bulk of the stripped material is to be removed by raising. 3. A good quality organic topsoil layer may be placed down. Small depressions may be filled (and lightly compacted underfoot). Placed topsoil soil layers must not exceed 100mm depth. 4. No plant machinery operating within the root protection areas to exceed 1 tonne gross weight and must only operate from properly ground protection boards such as DuraMats Access Mats (see Appendix C). 5. Turf and other planting to proceed thereafter.
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Tree Number	Species	RPA Radius	Category
1T	Dead cherry	2.4m	U
2T	False Acacia		C2
3T	False Acacia		C2
4T	Horse Chestnut		C1
5T	Variegated Holly		C2
6T	Decodar		C1
7T	Dead Hawthorn		U
8T	Horse Chestnut		B2
9T	Beech		B1
10T	Beech		A1
11T	Beech		A2
12T	Hornbeam	5.1m	U
13T	Lime		B2
14G	Young Cherry, Semi-mature Sycamore, Semi-mature Beech, Lawson cypress		C1
15G	5x Hornbeam and 1x Beech		B2
16T	Whitebeam		C1
17T	Cypress		C1
18T	Rowan	2.1m	C1
19T	Horse Chestnut		A2
20T	Lime	6m	A2
21T	Sycamore	4.2m	B2
22T	Horse Chestnut		A2
23G	2x Holly and 1x Cherry		C1
24T	Sycamore		A2
25T	Bay	2.4m	C2
26T	Lime		A2
27T	Lime	8.4m	A2
28T	Common Oak, Goat Willow and Silver Birch		C3
29G	6x Goat Willow		C3
30G	4x Ash, 2x Hawthorn, 1x Oak, 1x Elm		U
31G	Ash		C1
32T	4x Silver Birch		C1
33G	Beech		B2
34T	Hornbeam		A2
35T	Beech	8.4m	A1
36T	3x Holly & 1x Silver Birch		C1
37G	Whitebeam		C2
38T	Holly	4.2m	B2
39T	Whitebeam	2.7m	C2
40T	Silver Birch	2.7m	C1
41T	Juniper, Lawson's Cypress, 2x Whitebeam, Common Oak		C3
42G	Wild Cherry		C2
43T	9x Cherry & 1x Ash		C1
44G	2x Ash		U
45G	Ash		U
46T	Ash		U
47T	Sycamore	6.3m	B2
48T	Lombardy Poplar		B2
49T	Sycamore	6.6m	B2
50T	Ash	2.4m	C3
51T	2x Ash, 1x Horse Chestnut and 1x Dead Tree		U
52G	Ash		U
53T	Lawson's Cypress	8m	A2
54T	Scots Pine	4.8m	A2
55T	Scots Pine	4.8m	A2
56T	Sycamore		B1
57T	Sycamore		B2
58T	Flowering Cherry		C3
59G	Hawthorn and Holly		U
60G	Mixed Species Group		C1
61G	Beech and Hawthorn		B2
62G	Beech		B2
63T	Beech		A2
64T	Beech		A2
65T	Beech		A2
66T	Lime		C1
67T	Sycamore		B2
68T	London Plane		A2
69T	London Plane		A2

Amended to layout	20.03.23	MG	C
Amended to layout	16.03.23	MG	B
Amended to layout	07.03.23	MG	A
No alterations to be selected from this drawing		Date	Drawn
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Landscape Architecture

Arboriculture

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E-mail: info@trevorbridge.co.ukProject PARKFIELD HOUSE, MANCHESTER OLD ROAD, MIDDLETON
MULLER PROPERTY GROUPTree Survey and Root Protection Area
Sheet 2 of 2
Stage 2 - Construction

Date	Dec '22	Scale(s)	1:250	Dwg no	7082.05	Rev	C
DWG	MG	Chkd	@ A0				