



Arboricultural Impact Assessment

in Relation to Proposed Extension for Leisure Facilities
and Additional Parking Provisions at



**Cleator Moor Activity Centre, off
Wyndham Street, Cleator Moor,
Cumbria, CA25 5AN**

Prepared by:

Bowland 
Tree Consultancy Ltd

June 2023

**ARBORICULTURAL IMPACT ASSESSMENT
CLEATOR MOOR ACTIVITY CENTRE, CLEATOR MOOR**

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**ARBORICULTURAL IMPACT ASSESSMENT
CLEATOR MOOR ACTIVITY CENTRE, CLEATOR MOOR**

PROJECT DETAILS

Project No.: BTC2692

Site: Cleator Moor Activity Centre, off Wyndham Street, Cleator Moor, CA25 5AN

Agent for Client: Roberts Limbrick Ltd

Council: Copeland Borough Council

Survey Date: 29 March 2023

Surveyed by: Ryan Gledhill FdSc MArborA

Prepared by: Ryan Gledhill FdSc MArborA

Checked by: Joseph Lambert BSc(Hons) FdSc MArborA MICFor

Date of Issue: 29 June 2023

Version No: 1

DISCLAIMER

Survey Limitations: Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques. The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.

Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognised that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

Where trees are located wholly or partially on neighbouring private third-party land then said land is not accessed and our inspection is therefore restricted to what can reasonably be seen from within the site. Stem diameters of trees located on such land are estimated. Any subsequent comments and judgments made in respect of such trees are based on these restrictions and are our preliminary opinion only. Recommendations for works to neighbouring third-party trees are only made where a potentially unacceptable risk to persons and/or property has been identified during our survey. Where significant structural defects of third-party trees are identified and associated management works are considered essential to negate any risk of harm and/or damage then we will first attempt to inform the site occupier of the issues and, if not possible, then inform the relevant Council. Where a more detailed assessment is considered necessary then appropriate recommendations are set out in the Tree Survey Schedule.

Where tree stem locations are not included on the plan(s) provided then they are plotted at the time of the survey using, where appropriate and/or practicable, a combination of measurement triangulation and GPS co-ordination. Where this is not possible then locations are estimated. Restrictions in these respects are detailed in the report.

The tree survey and any report information provided is intended as a guide to identify key tree related constraints to site development only. As such, the potential influence of trees upon existing or proposed buildings or other structures resulting from the effects of their roots abstracting water from shrinkable load-bearing soils is not considered herein. The tree survey information in its current form should not therefore be considered sufficient to determine appropriate foundation depths for new buildings. Accordingly, an updated survey, with reference to the current NHBC Standards Chapter 4.2 - Building Near Trees, must therefore be prepared for the specific purpose of informing suitable foundation depths subsequent to planning approval being granted. The advice of a structural engineer must also be sought with regard to appropriate foundation depths for new buildings.

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Statutory Tree Protection: It is the client's responsibility to check for the presence of any statutory tree protection measures, such as the site's location within a Conservation Area and/or the presence of any Tree Preservation Orders, directly with the applicable Council's planning department prior to scheduling or carrying out any tree works. In turn, it is also the client's responsibility to check for the need for a felling licence with the Forestry Commission prior to scheduling or carrying out any tree works. Bowland Tree Consultancy Ltd cannot be held responsible for any decisions made by the client to prune or remove trees where any such statutory protection exists.

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Validity: The findings and recommendations contained within this report are, providing its recommendations are observed and the site conditions are retained as per the date(s) of the survey, valid for a period of twelve months from the last survey date. This period of validity may be reduced should there be any changes in factors affecting both the surrounding environment and/or built structures in relative proximity to the trees. The condition of trees should be re-appraised directly, through a site survey, following major weather events such as storms, changes undertaken to the site's conditions, inclusive of demolition and/or ground works, or the removal of existing site vegetation, including trees.

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT ASSESSMENT							
Site:	Cleator Moor Activity Centre, off Wyndham Street, Cleator Moor, Cumbria, CA25 5AN						
Agent:	Roberts Limbrick Ltd						

Surveyor:	Ryan Gledhill FdSc MArborA
Survey Date:	29 March 2023
Job Reference:	BTC2692

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No.	Species	Height	Stem Diam.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m²)	RPA Radius (m)
T1	Goat Willow	7	270	N 6 E 4 S 4 W 4	0.5-W 0.5	SM	M	- Growing in close proximity to retaining wall; RPA subsequently offset accordingly to north (See Tree Constraints Plan (TCP)). - Multi-stemmed from base. - Canopy significantly biased north. - Frequent instances of acute included primary unions.	- Retain tree in context of proposed development. - Ensure protection of tree's Root Protection Area (RPA) (see Tree Impact Plan - TIP) throughout development through establishment of Construction Exclusion Zone (CEZ) in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific Arboricultural Method Statement (AMS) and Tree Protection Plan (TPP).	10+	C1	198	7.94
T2	Whitebeam	5	320	N 3 E 3 S 3 W 3	2-N 2	SM	M	- Several bark wounds to lower stem, to a diameter of approximately 270mm. - Acute included primary unions at 2m. - Minor deadwood.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	46	3.84
T3	Goat Willow	6	1x400 1x330 (ts)	N 4 E 4 S 4 W 4	1-E 0.5	SM	M	- Bifurcates at 0.5m into an acute included primary union. - Central secondary leader to a diameter of approximately 150mm evidently dead. - Moderate instances of deadwood to a diameter of approximately 60mm.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	122	6.22

Headings and Abbreviations:

No.	Allocated sequential reference number - Tree ('T'), Group ('G'), Woodland ('W') or Hedge ('H') reference number - refer to plan and to numbered tags where applicable
Species:	Common name
Height:	In metres, to half nearest metre – where possible approximately 80% are measured using an electronic clinometer and the remainder estimated against the measured trees. In the case of Groups and Woodlands the measurement listed is that of the highest tree
Stem Diam.:	Stem diameter in millimetres, to nearest 10mm - measured and calculated as per Annex C of BS5837:2012. MS = multi-stemmed, TS = twin-stemmed
Branch Spread:	Crown radius measured (or estimated where considered appropriate) from the four cardinal points (north, east, south and west) to give an accurate visual representation of the crown
Branch & Canopy Clearances:	Existing height above ground level, in metres, of first significant branch and direction of growth (e.g. 2.5-N) and of canopy at lowest point – to inform on crown to height ratio, potential for shading, etc.
Life Stage:	Estimated age class - Y = young, SM = semi-mature, EM = early-mature, M = mature, PM = post-mature
PC:	Physiological Condition - a measure of the tree(s)' overall vitality, i.e. D = Dead, MD = Moribund, P = Poor, M = Moderate, G = Good
General Observations and Comments:	Comments relating to the tree(s)' overall condition and any other pertinent factors including structural defects, current and potential direct structural damage, physiological decline, poor form, etc.
Management Recommendations:	Either Preliminary or In Consideration of the Proposal - In the case of Arboricultural Constraints Surveys the recommended management works only take existing site and tree circumstances and conditions into account and not proposed developments. Arboricultural Impact Assessment and Method Statement related Surveys take the proposed development into consideration with recommendations made accordingly. More than one option may be given if considered appropriate
ERC:	Estimated Remaining Contribution - in years as per BS5837:2012 (i.e. <10, 10+, 20+, 40+)
Cat. Grade:	Category Grading - tree retention value listed as U, A, B or C - in accordance with BS5837:2012 Table 1
RPA m²:	Root Protection Area in m² - calculated area around the tree that must be appropriately protected throughout the development process in order avoid root damage
RPA Radius (m):	Root Protection Area Radius - in metres measured from the centre of the stem to the line of tree protection
# (Estimated Dimensions):	Where trees are located off-site, or are inaccessible for any other reason, and accurate measurements or other information cannot be taken then the information provided is estimated and is duly suffixed with a "#" symbol

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T4	Norway Maple	5	120	N	3	0.5 0.5	SM	M	- Multi stemmed from base; indicative of coppice origin. - Located in heavily saturated ground. - Signs of a slight reduction in vitality and possibly early stage of progressive decline.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	39	3.53
				E	3									
				S	3									
				W	3									
T5	Common Alder	7	360	N	4	1.5-W 1	SM	M	- Slight stem lean east. - Low canopy height. - Moderate instances of deadwood to a diameter of approximately 50mm. - Signs of upper crown dieback and a moderate reduction in vitality.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	59	4.32
				E	4									
				S	4									
				W	4									
T6	Common Ash	6	240	N	3	2-S 2	SM	P	- Evidently in significant stage of decline subsequent of colonisation by Ash Dieback Disease (ADD). - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	26	2.88
				E	3									
				S	3									
				W	3									
T7	Common Ash	6	300	N	4	2-S 2	SM	P	- Evident stem fracture from base to primary union at 3m. - Evidently in significant stage of decline subsequent of colonisation by ADD. - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	41	3.6
				E	4									
				S	4									
				W	4									
T8	Common Ash	3	200	N	2	2 1	SM	P	- Terminal stage of decline subsequent of colonisation by ADD. - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	18	2.4
				E	2									
				S	2									
				W	2									
T9	Common Ash	8	370	N	5	2-N 2	SM	P	- Evident decline subsequent of colonisation by ADD. - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	62	4.44
				E	5									
				S	4									
				W	4									

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T10	Common Ash	8	340	N E S W	4 4 4 4	2.5-W 2.5	SM	P	- Late stage of decline subsequent of colonisation by ADD. - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	52	4.08
T11	Common Ash	4.5	2x200 (ts)	N E S W	2 2 2 2	1 1	SM	P	- Terminal stage of decline subsequent of colonisation by ADD. - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	36	3.39
T12	Common Alder	5	300	N E S W	2.5 2.5 2.5 4	1 1	SM	M	- Lifted soil east and evident sign of early root heave, now appears stabilised. - Slight lean west. - Canopy significantly biased west.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	41	3.6
T13	Common Alder	5	340	N E S W	3.5 3.5 3.5 4	1.5-S 2	SM	M	- Growing in dense bramble understorey. - Slight stem lean and canopy bias west. - Signs of a reduction in vitality.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	52	4.08
T14	Common Alder	5	120	N E S W	1 4 4 4	0.5 2	SM	M	- Multi-stemmed from base. - Canopy heavily suppressed north.	- Retain tree in context of proposed development. - Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	46	3.81

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T15	Common Alder	5	350	N E S W	3.5 3.5 3.5 3.5	1.5 2	SM	M	▪ Growing in dense bramble understorey. ▪ Moderate deadwood to approximately 60mm diameter. ▪ Signs of a reduction in vitality.	▪ Retain tree in context of proposed development. ▪ Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C1	55	4.2
T16	Goat Willow	5	110	N E S W	5 5 1 0	0.5 0.5	EM	M	▪ Tree has historically succumbed to full root plate failure and fallen west. ▪ Canopy regrowth has established from fallen tree.	▪ Remove tree as part of prudent arboricultural practice.	<10	U	49	3.96
T17	Sycamore	11	350#	N E S W	4 4 4 4	5 4	SM	G	▪ Located in third party private residential garden and therefore not accessed to inspect in detail. ▪ Bifurcates at approximately 3.5m.	▪ Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	20+	B1	55	4.2
T18	Common Ash	10	420#	N E S W	6 6 6 6	3 4	SM	P	▪ Located in third party private residential garden and therefore not accessed to inspect in detail. ▪ Signs of a significant stage of decline subsequent of Ash Dieback Disease. ▪ Short remaining life expectancy.	▪ Ensure protection of tree's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Tree's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	<10	U	80	5.04
T19	Field Maple	6	270	N E S W	4 4 4 1.5	0.5 1	SM	M	▪ Soft surface vehicle track running west of tree. ▪ Previous crown lift pruning to facilitate clearance over vehicle track. ▪ Significant canopy suppression west by neighbouring trees. ▪ Signs of dieback in upper crown subsequent of neighbouring suppression.	▪ Remove tree to facilitate installation of running track as proposed.	10+	C1	33	3.24

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T20	Field Maple	4	200	N E S W	3 3 3 1	0.5 1	SM	M	- Soft surface vehicle track running west of tree - Previous crown lift pruning to facilitate clearance over vehicle track. - Significant canopy suppression west by neighbouring trees. - Signs of dieback in upper crown subsequent of neighbouring suppression.	Remove tree to facilitate installation of running track as proposed.	10+	C1	18	2.4
T21	Common Ash	6	320#	N E S W	4 4 4 2	2-S 1.5	SM	P	- Dense bramble understorey preventing access. - Significant stage of decline subsequent of Ash Dieback Disease. - Canopy suppressed east by neighbouring tree. - Short remaining life expectancy.	Remove tree as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	46	3.84
G1	Beech, Lawson Cypress	≤ 5	≤ 180	N E S W	≤ 1 ≤ 1 ≤ 1 ≤ 1	N/A ≥ 0.5	Y-SM	M-G	- Closely spaced linear group growing within raised planter along site boundary. - Signs of frequent crown reduction management.	- Retain group in context of proposed development. - Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 15	≤ 2.16
G2	2no. Beech	≤ 6	≤ 190	N E S W	≤ 1 ≤ 2 ≤ 2 ≤ 2	1-S ≥ 2	SM	M	- Closely spaced pair with mutual suppression. - Heavy crown reduction pruning to north to facilitate clearance from adjacent street light. - Growing within raised planter.	- Retain group in context of proposed development. - Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 16	≤ 2.28

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G3	Goat Willow, Common Alder, Hazel, Sycamore	≤ 5	≤ 190	N ≤ 2 E ≤ 2 S ≤ 2 W ≤ 2.5	N/A ≥ 0	Y-SM	M-G	- Closely spaced group. - Predominantly populated by multi-stemmed scrub vegetation.	- Remove part of group to facilitate construction of car park as proposed (See TIP). - Retain remaining group in context of proposed development. - Ensure protection of remaining group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 16	≤ 2.28
G4	Silver Birch, Goat Willow	≤ 0.5	≤ 170	N ≤ 2 E ≤ 2 S ≤ 2 W ≤ 2	7 ≥ 0.5	Y	M-G	- Closely spaced group. - Partially growing against retaining wall; with RPA offset accordingly (See TCP).	- Retain group in context of proposed development. - Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 13	≤ 2.04
G5	Goat Willow	≤ 3	≤ 70	N ≤ 2 E ≤ 2 S ≤ 2 W ≤ 2	N/A ≥ 0	Y	M	Moderate to loosely spaced scrub group.	- Retain group in context of proposed development. - Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 18	≤ 2.38
G6	Silver Birch, Goat Willow, Common Alder	≤ 4.5	≤ 150	N ≤ 2.5 E ≤ 2.5 S ≤ 2.5 W ≤ 2.5	N/A ≥ 0	Y	M-P	- Close to loosely spaced group. - Southern group extends growing in contact with brickwork ramp structure. - Trees adjacent to Multi Use Games Area (MUGA) fence evidently heavily pruned to facilitate clearance from boundary structure. - Frequent instances of acute primary unions including several partially failed junctions. - Limited future long term potential.	Remove group as part of prudent arboricultural practice.	<10	U	≤ 10	≤ 1.8

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G7	Goat Willow, Common Alder, Silver Birch	≤ 6	≤ 100	N	≤ 3	N/A ≥ 0	Y	M	▪ Closely to moderate spaced group. ▪ Predominantly populated by multi-stemmed scrub vegetation. ▪ Installation of proposed running track projected to result in minor encroachment over calculated RPA's within group; running track to be laid using hoggins as ground surfacing with minor turf removal required. In turn, no significant long term structural and/or physiological impacts are projected providing remaining RPAs are afforded adequate protection (see TIP). NB: Work is to be undertaken using hand held tools in accordance with section 7.2 of BS5837:2012.	▪ Approximately 3m wide strip to be removed through group's western extents to facilitate installation of running track through group (See TIP). ▪ Retain remaining group in context of proposed development. ▪ Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP. ▪ Consideration should be given to silvicultural thinning of group to facilitate incremental growth of established trees and amend species composition with new native shrub and tree planting within.	10+	C2	≤ 36	≤ 3.39								
G8	6no. Ash	≤ 7	≤ 180	N	≤ 2	0.5 ≥ 1	Y-SM	P	▪ Evident signs of decline subsequent of colonisation by ADD. ▪ Short projected remaining life expectancy.	▪ Remove group as part of prudent arboricultural practice, due to evident decline subsequent of colonisation by ADD.	<10	U	≤ 15	≤ 2.16								
				E	≤ 2																	
				S	≤ 2																	
				W	≤ 2																	
G9	Common Alder, Goat Willow	≤ 6	≤ 160	N	≤ 3	0.5 ≥ 0.5	Y-SM	M-G	▪ Closely to loosely spaced group of self-seeded trees within dense bramble understorey.	▪ Retain group in context of proposed development. ▪ Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 12	≤ 1.92								
				E	≤ 3																	
				S	≤ 3																	
				W	≤ 3																	

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT ASSESSMENT							
Site:		Cleator Moor Activity Centre, off Wyndham Street, Cleator Moor, Cumbria, CA25 5AN					
Agent:		Roberts Limbrick Ltd					

Surveyor:	Ryan Gledhill FdSc MArborA
Survey Date:	29 March 2023
Job Reference:	BTC2692

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No.	Species	Height	Stem Diam.	Branch Spread		Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m²)	RPA Radius (m)
G10	Lawson Cypress, Silver Birch, Ash	≤ 16	≤ 510#	N	≤ 5	2-W	SM-EM	M-G	- Closely spaced boundary group. - Predominantly populated by coniferous trees as screening to neighbouring residential gardens. - Previous crown lift pruning. - Frequent instances of fly tipping within group. - Partially inaccessible due to dense bramble understorey. - Ash trees exhibit signs of early decline indicative of colonisation by ADD; unable to ascertain extent of decline as canopies out of leaf at time of survey.	- Remove two trees from group's western extents to facilitate construction of development as proposed (See TIP). - Reinspect Ash trees during summer 2023, whilst canopies are in full leaf, to ascertain extents of decline subsequent of colonisation by ADD and make subsequent recommendations.	20+	B2	≤ 118	≤ 6.12
G11	Common Alder, Goat Willow, Scots Pine	≤ 9	≤ 140	N	≤ 2	2	Y	M-G	- Closely to densely spaced stand of predominantly self-seeded vegetation. - Canopies in minor contact with activity centre building. - Heavy mutual suppression.	- Remove western extents of group to facilitate construction of development as proposed (See TIP). - Retain remaining group in context of proposed development. - Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. - NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP. - Consideration should be given to silvicultural thinning of group to facilitate incremental growth of established trees and amend species composition with new native shrub and tree planting within.	10+	C2	≤ 9	≤ 1.68

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT ASSESSMENT							
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No.	Species	Height	Stem Diam.	Branch Spread		Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m²)	RPA Radius (m)								
G12	Common Alder	≤ 8	≤ 350	N	≤ 3	1 ≥ 1	Y-SM	M-G	▪ Moderately to loosely spaced group comprising of predominantly self-seeded trees. ▪ Instances of historic root heave to several trees. ▪ Signs of a reduction in vitality throughout group. ▪ Soft surface vehicle track runs through centre of group over projected root areas. ▪ Moderate deadwood to a diameter of approximately 70mm. ▪ Installation of proposed running track projected to result in minor encroachment over calculated RPA of three trees within group; running track to be laid using hoggin as ground surfacing with minor turf removal required. In turn, no significant long term structural and/or physiological impacts are projected providing remaining RPA is afforded adequate protection (see TIP). NB: Work is to be undertaken using hand held tools in accordance with section 7.2 of BS5837:2012.	▪ Retain group in context of proposed development. ▪ Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	10+	C2	≤ 55	≤ 4.2								
G13	6no. Scots Pine, 2no. Common Alder, 1no. Field Maple	≤ 12	≤ 480#	N	≤ 5	0.5 ≥ 3	SM-EM	M-G	▪ Closely spaced linear group. ▪ Dense bramble understorey preventing access. ▪ Significant mutual suppression. ▪ Instances of acute primary unions and attenuated growth subsequent of neighbouring suppression. ▪ Previous crown lift pruning west to facilitate clearance over vehicle access track.	▪ Retain group in context of proposed development. ▪ Ensure protection of group's RPA (see TIP) throughout development through establishment of CEZ in accordance with appended specification. ▪ NB: Group's protection during development can be assured through imposition of a suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific AMS and TPP.	20+	B2	≤ 104	≤ 5.76								
G14	Goat Willow, Hawthorn	≤ 4	≤ 100	N	≤ 2	N/A ≥ 0	Y	M	▪ Closely spaced group of multi stemmed trees. ▪ Canopies in close proximity to activity centre building.	▪ Remove group to facilitate construction of development as proposed.	10+	C2	≤ 41	≤ 3.6								

BS5837:2012 Table 1 – Cascade Chart for Tree Quality Assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	- Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline - Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <i>Note: Category U trees can have existing or potential conservation value which it might be desirable to preserve; see BS5837:2012 paragraph 4.5.7.</i>			Red
	1. Mainly arboricultural qualities	2. Mainly landscape qualities	3. Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	Green
Category B Those of moderate quality and value: those in such a condition as to make a significant contribution. A minimum of 20 years is suggested.	Trees that might be included in the high category, but are downgraded because of impaired condition. Examples include the presence of remediable defects including unsympathetic past management and minor storm damage	Trees present in numbers, usually as groups or woodlands, so they form distinct landscape features which attract a higher collective rating than they might as individuals. But which are not, individually, essential components of formal or semi-formal arboricultural features. For example, trees of moderate quality within an avenue that includes better, A category specimens. Or trees which are internal to the site, therefore individually having little visual impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits	Blue
Category C Those trees of low quality and value: currently in adequate condition to remain until new planting could be established - a minimum of 10 years is suggested - or young trees with a stem diameter below 150 mm	Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit	Trees with very limited conservation or other cultural benefits	Grey
	Note – Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150mm should be considered for relocation			

- TEMPORARY PROTECTIVE FENCING & GROUND PROTECTION SPECIFICATION -

Construction Exclusion Zones (CEZs), shall be enclosed by **Temporary Protective Fencing** and/or, where necessary, **Temporary Ground Protection Measures**. The fencing/ground protection Type(s), locations, and extents shall be agreed, in writing, with the Local Planning Authority (LPA). In turn, the **Temporary Protective Fencing** and/or **Temporary Ground Protection Measures** shall:

1. be constructed as in accordance with the Type 1, Type 2 or Type 3 'Temporary Protective Fencing Construction' sections and, where applicable the 'Temporary Ground Protection Measures' section, as detailed herein and agreed, in advance with the LPA;
2. be retained in place throughout the development process until completion of the project, and only removed following receipt of written permission from the LPA;
3. be sited in the area(s) defined by the Root Protection Areas on the associated Tree Impact Plan, or as the CEZs on the Tree Protection Plan;
4. be erected prior to any construction, demolition or excavation works and remain in place for the duration of the project;
5. preclude any delivery of site accommodation and/or materials and/or plant machinery;
6. preclude all construction related activity, with the sole exception of specified arboricultural works and any other works to be carried out under supervision that have been agreed by all parties;
7. preclude the storage of all development related materials and substances including fuels, oils, additives, cement and/or any other deleterious substance; and
8. be affixed with a 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1, below), at every 10.0 metre length of protective fencing.
9. Important: Any incursion into CEZs must be by prior arrangement, following consultation with the LPA.

Figure 1: CEZ Warning Sign

**- TREE PROTECTION AREA –
KEEP OUT!**

(TOWN & COUNTRY PLANNING ACT 1990)

**THE TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING
CONDITIONS AND/OR SUBJECTS OF A 'TREE PRESERVATION ORDER',
THE CONTRAVENTION OF WHICH MAY LEAD TO CRIMINAL
PROSECUTION**

THE FOLLOWING MUST BE OBSERVED BY ALL PERSONNEL:

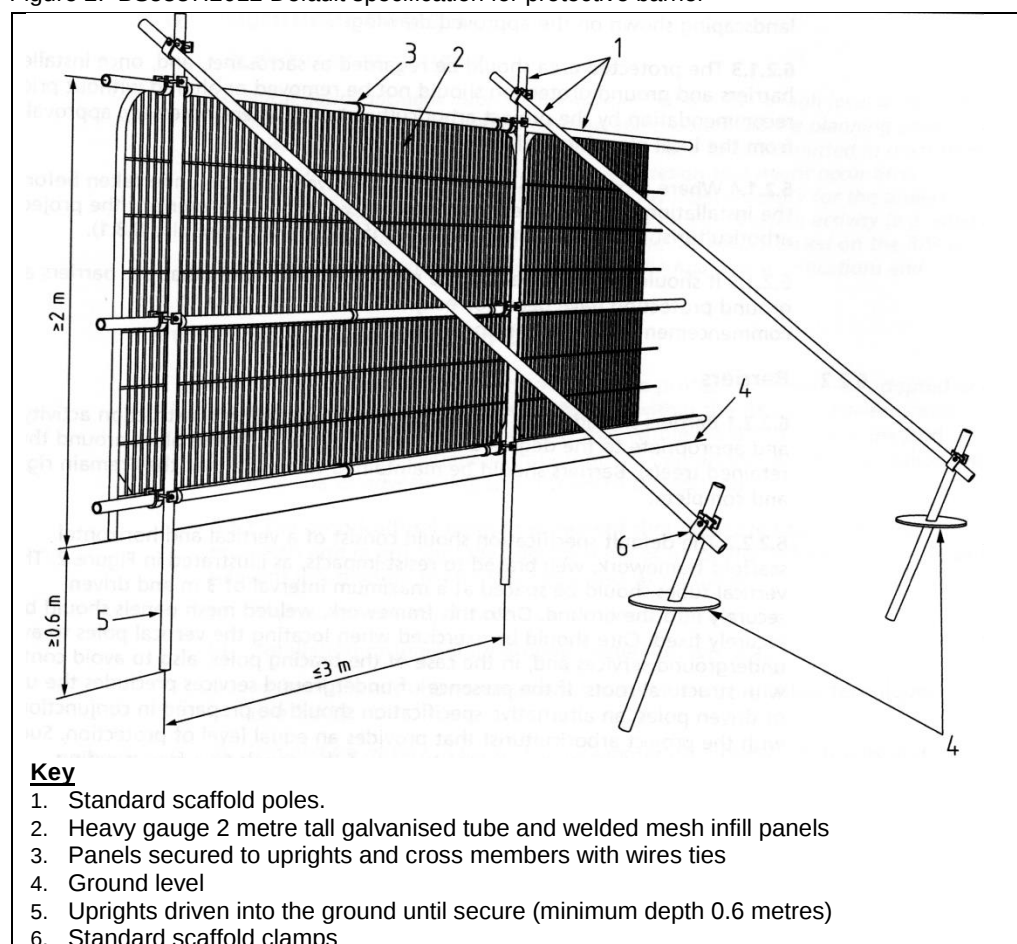
- THE PROTECTIVE FENCING MUST NOT BE MOVED
- NO PERSON SHALL ENTER THE CONSTRUCTION EXCLUSION ZONE
- NO MACHINE, PLANT OR VEHICLES SHALL ENTER THE EXCLUSION ZONE
- NO MATERIALS SHALL BE STORED IN THE EXCLUSION ZONE
- NO SPOIL SHALL BE DEPOSITED IN THE EXCLUSION ZONE
- NO EXCAVATION SHALL OCCUR IN THE EXCLUSION ZONE
- NO FIRES SHALL BE LIT IN THE EXCLUSION ZONE

**ANY INCURSION INTO THE EXCLUSION ZONE MUST BE WITH THE
WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY**

Type 1 (i.e. 'Default') Temporary Protective Fencing Construction (see Figure 2, below)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall butt together and be securely fixed to a scaffold framework, as per points 3 to 5 of Figure 2, overleaf.
3. The scaffold framework shall comprise of upright poles of at least 3.0 metres in length driven no less than 0.6 metres into the ground at maximum 3.0 metre centres with horizontal and diagonal poles fixed to the uprights, as per points 4 to 5.
4. The two horizontal rail poles shall be attached to the uprights at heights of 0.6 and 1.8 metres with 3 no. clamps to each joint.
5. The diagonal scaffold pole struts be clamped to the top rail of the scaffold framework at a 45° angle and extend back into the CEZ and clamped to a 0.7 metre length of scaffold tube that shall be driven no less than 0.5m into the ground.
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

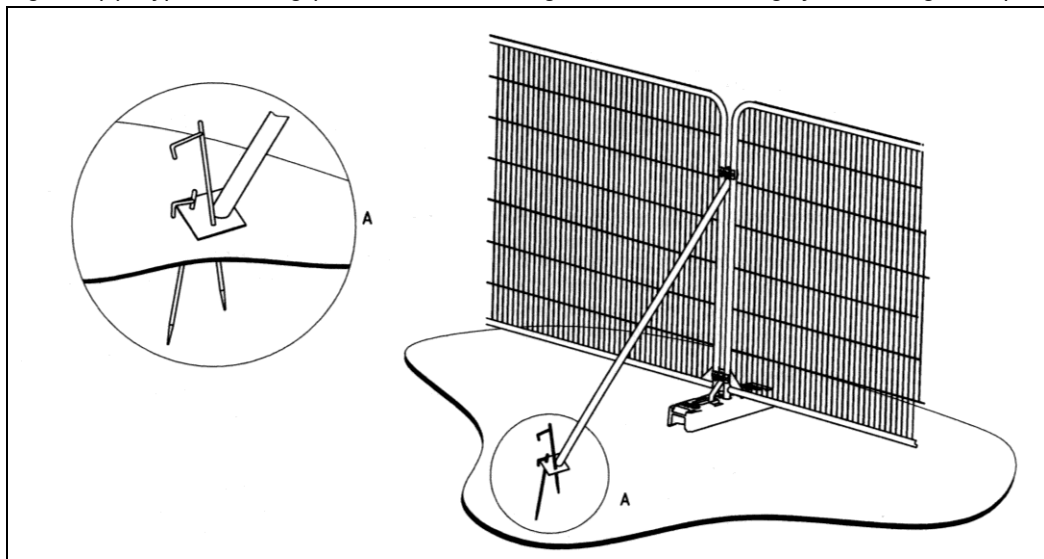
Figure 2: BS5837:2012 Default specification for protective barrier



Type 2 Temporary Protective Fencing Construction (see Figure 3(a), below)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall stand on rubber or concrete feet.
3. The panels shall butt together, and be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence.
4. The distance between the fence couplers shall be at least 1.0 metre, and shall be uniform throughout the fence.
5. The panels shall be supported on the inner side by stabiliser struts, which shall be clamped to the scaffold framework at a 45° angle and extend back into the CEZ and shall be attached to a base plate, which shall be secured to the ground with pins (Figure 3a).
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

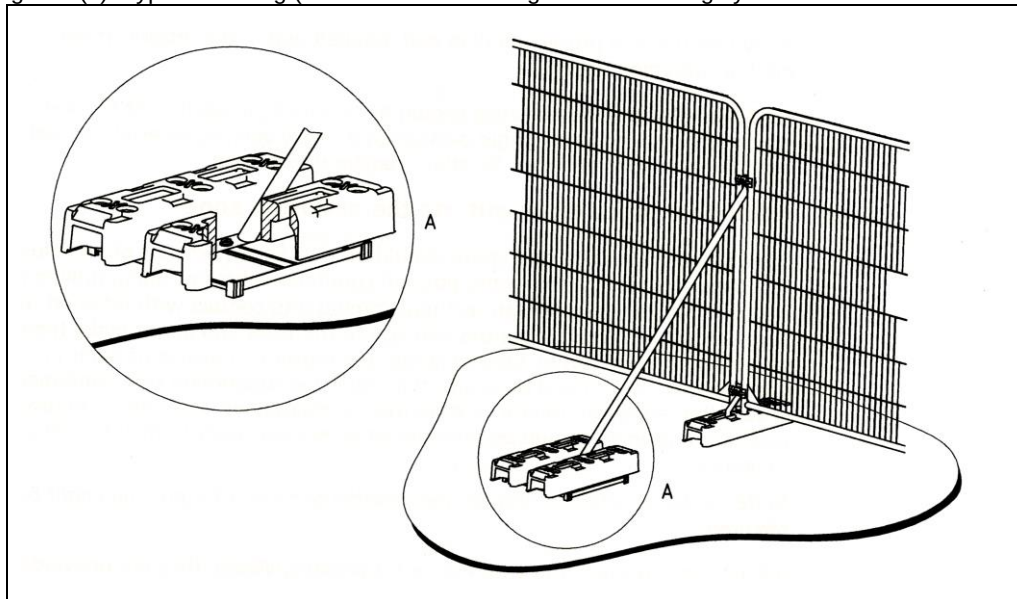
Figure 3(a): Type 2 Fencing (BS5837:2012 above-ground strut stabilising system with ground pins)



Type 3 Temporary Protective Fencing Construction (see Figure 3(b), overleaf)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall stand on rubber or concrete feet.
3. The panels shall butt together, and be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence.
4. The distance between the fence couplers shall be at least 1.0 metre, and shall be uniform throughout the fence.
5. The panels shall be supported on the inner side by stabiliser struts, which shall be clamped to the scaffold framework at a 45° angle and extend back into the CEZ and shall be attached to a block tray base (Figure 3b).
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

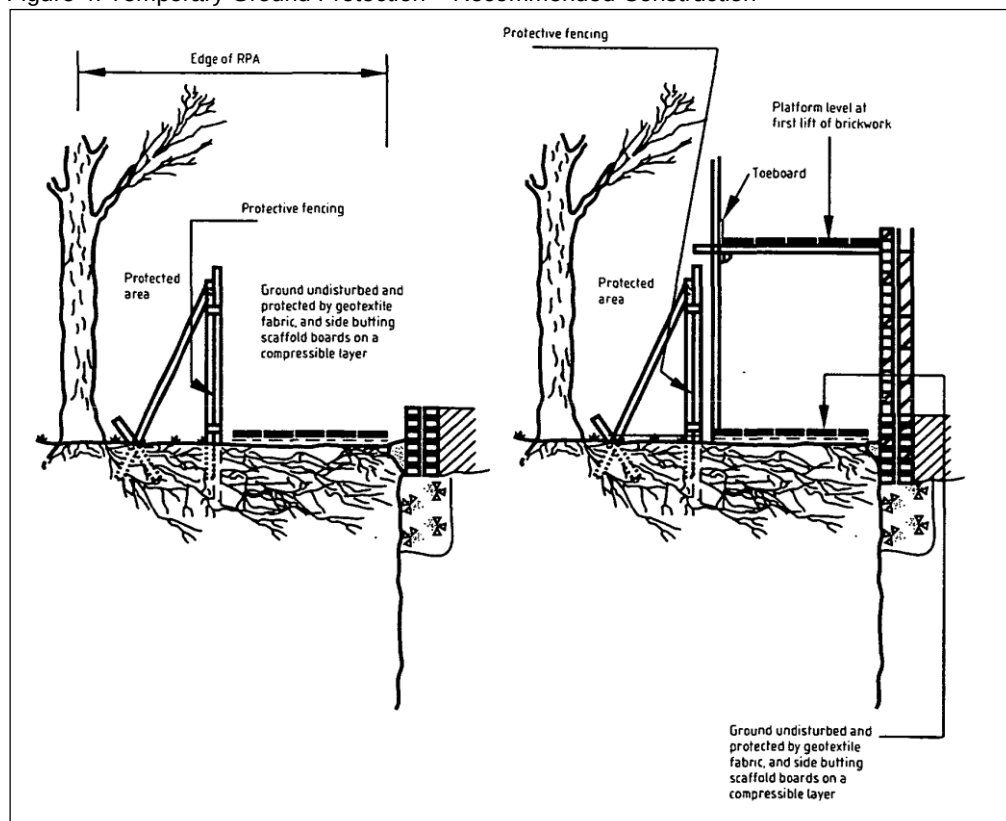
Figure 3(b): Type 3 Fencing (BS5837:2012 above-ground stabilising system with strut on block tray)

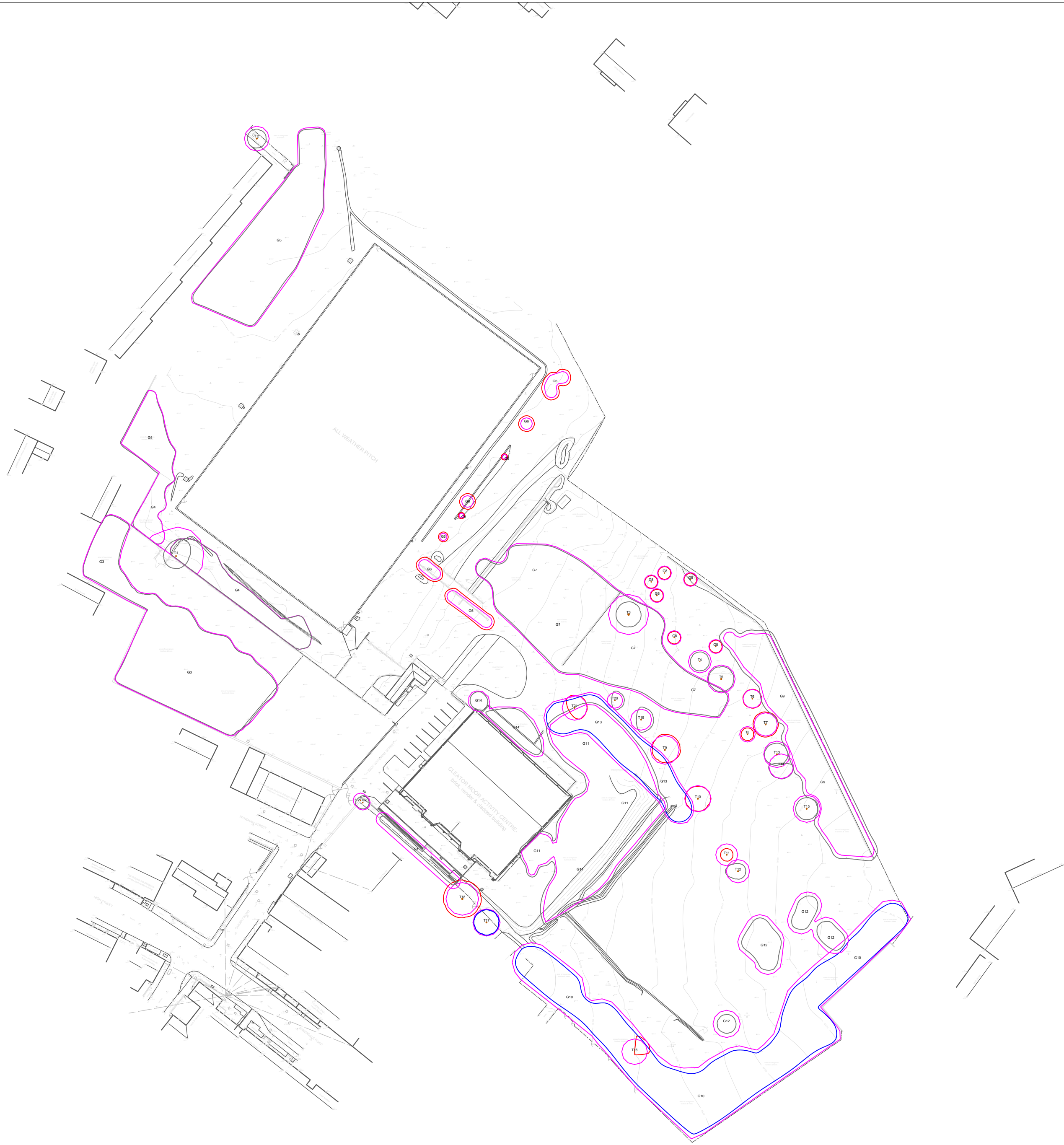


Temporary Ground Protection

1. Any necessary Temporary Ground Protection areas shall conform to Figure 4, below, unless otherwise agreed with the LPA.
2. The Ground Protection Area shall be left undisturbed and covered by a semi-permeable geotextile membrane which shall, in turn, be covered by a compressible layer consisting of a material such as woodchip.
3. Side-butting scaffold boards shall then be fitted to cover the Ground Protection Area.
4. On completion of installation, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Ground Protection.
5. The Temporary Ground Protection shall remain in place until completion of the project and only removed following receipt of written permission from the LPA.

Figure 4: Temporary Ground Protection – Recommended Construction





Important: The original version of this plan was produced in colour, which is essential to the plan's interpretation and usability. As such, a monochrome copy should not be relied upon

KEY

T = Individual Tree
G = Group of Trees

Please refer to associated Tree Survey Schedule and appendices for specific details in respect of items below:

Tree Categorisations:

Those to be Considered for Retention:

Category 'A' Tree/Group

Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years

Category 'B' Tree/Group

Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years

Category 'C' Tree/Group

Those of Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

Those Considered Unsuitable for Retention:

Category 'U' Tree/Group

Those in Such a Condition that they Cannot Realistically be Retained as Living Trees in the Context of the Current Land Use for Longer Than 10 Years

Note: The locations of trees T11, T12, T16, T17, T18 and T21, and groups G5 and G13 were not included on the topographical survey plan provided, and were subsequently plotted by the arboriculturist at the time of the survey using GPS and, where possible, measurement from existing site features or, where not possible, estimation. As such, the locations of the trees and the locations and extents of the groups cannot therefore be considered to be entirely accurate

Root Protection Areas (RPAs):

RPA

Area(s) of Ground Around Trees that Should be Protected Throughout Development. Works with Protective Fencing to form a Construction Exclusion Zone - see Temporary Protective Fencing Specification

Project:

CLEATOR MOOR ACTIVITY CENTRE
OFF WYNDHAM STREET
CLEATOR MOOR
CUMBRIA
CA25 5AN

Agent:

ROBERTS LIMBRICK LTD

Title:

TREE CONSTRAINTS PLAN
in Relation to Proposed Extension for Leisure Facilities and Additional Parking Provisions

Scale:

1:1000@A2

Date:

April 2023

Drawn by:

MM

Checked by:

RG

Bowland

Tree Consultancy Ltd

e: info@bowlandtreeconsultancy.co.uk
t: 01772 437150

Ref: BTC2692-TCP

Rev:



Accordingly, the provision of and adherence to a detailed landscape proposal plan can be assured through the imposition of a suitably worded condition attached to a planning approval

All site operations involving plant with booms, jibs and counterweights to be planned in advance to prevent contact with retained trees, and works adjacent to trees to be conducted under supervision of a banksman under arboricultural direction, in order to ensure that adequate clearances from retained trees are maintained

NB: Trees' protection during development can be assured through imposition of suitably worded condition attached to a planning approval requiring provision of and adherence to a site and development specific Arboricultural Method Statement (AMS) and Tree Protection Plan (TPP)

Rev