



Tree Impact Appraisal and Protection Scheme

in Relation to Proposed Construction of Vehicular Access from Prescott Parkway, Excavation and Construction of a Drainage Swale, and Other Associated Works at



**Land off Prescott Park Way,
Prescot, Merseyside, L34 1JZ**

Prepared by:

Bowland 
Tree Consultancy Ltd

February 2023

**TREE IMPACT APPRAISAL ANMD PROTECTION SCHEME
LAND OFF PRESCOT PARK WAY, PRESCOT**

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**TREE IMPACT APPRAISAL ANMD PROTECTION SCHEME
LAND OFF PRESCOT PARK WAY, PRESCOT**

PROJECT DETAILS

Project No.: BTC2392

Site: Land off Prescott Park Way, Prescott, L34 1JZ

Client: United Utilities Property Services Ltd

Council: Knowsley Borough Council

Survey Date: 17 January 2022 & 27 May 2022

Surveyed by: Joseph Lambert BSc(Hons) FdSc MArborA MICFor & Roland Jones HND Arb MArborA

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Date of Issue: 27 February 2023

Version No: 2

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.

ARBORICULTURAL METHOD STATEMENT

Development Proposal:	Construction of Vehicular Access and Excavation and Construction of a Drainage Swale and other Associated Works
Site:	Land off Prescott Park Way, Prescott, Merseyside, L34 1JZ
Agent for Client.:	United Utilities Property Services

Prepared by:	Joseph Lambert Chartered Arboriculturist
Report Date:	15 February 2023
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Scope of Arboricultural Method Statement

- This Arboricultural Method Statement (AMS) relates specifically to the proposed construction works at the above existing site, as detailed on the Tree Protection Plan (TPP).
- The AMS and TPP should be read in conjunction with the appended Temporary Protective Fencing Specification.
- The purpose of the AMS is to consider the potential effects of the development work operations on the retained trees, and sets out how any identified adverse impacts are, as far as is practicable, to be avoided.
- From commencement of the development, and throughout the site works until completion, the methodology shall be implemented in the sequence and manner detailed in the Sequence of Works.
- As part of the tendering process, the client/client's agent shall provide the building contractor(s) with the AMS, the TPP, and the Temporary Protective Fencing Specification.
- In turn, the appointed building contractor shall be required to review the documents in detail and shall take the requirements of the AMS into consideration when pricing for the works.
- It shall be the contractor's responsibility to ensure that the works are carried out in strict accordance with the obligations and responsibilities of the AMS and, in turn, they will be accountable for any breaches of the obligations and responsibilities.
- Directly following the appointment of a building contractor, the specifics of the AMS and TPP shall be reviewed by the contractor and the Project Arboriculturist. In turn, the AMS and TPP shall be updated, by the Arboriculturist, in accordance with any changes in the development design that may have occurred subsequent to this AMS and TPP being issued, or any issues that may have arisen as a result of the review.
- As soon as is practicable the amended documents shall then be issued to the LPA for review – NB: it shall be the client's/client's agent's responsibility to arrange this review with the Project Arboriculturist immediately following the granting of planning permission.

Site Inspections & Reporting by Project Tree Consultant

- Prior to the commencement of the development, all personnel charged with overseeing development related works shall be provided with the contact details of the Project Tree Consultant.
- In turn, it is the responsibility of the building contractor's site manager to report any tree related issues, including deviations from the AMS, directly to the Project Tree Consultant, who will then visit the site and make recommendations to the building contractor/site manager on how best to rectify the situation.
- The Project Tree Consultant shall be engaged to carry out site inspections for the duration of the works, at intervals agreed with the Local Planning Authority (LPA) (NB: no more than 31 days shall elapse between site inspections), in order to ensure compliance with the AMS and any planning conditions pertaining to tree issues.
- Subsequent to each site inspection the Project Tree Consultant shall complete a monitoring report detailing any problems encountered and breaches of the agreed working methods or tree related planning conditions, and any measures required to rectify such problems or breaches.
- The report shall be forwarded to the LPA's Tree Officer, the building contractor's site manager, and the client or client's agent, by email. In the event of the client terminating the contract with the Project Tree Consultant, the Project Tree Consultant shall notify the LPA before the end of the next working day following termination.
- The Project Tree Consultant shall report any tree related issues and/or breaches of the AMS that they consider to be significant in relation to retained tree health and/or structural stability directly to the Tree Officer.
- In the event that the Project Tree Consultant's site monitoring contract is terminated, then the client/client's representative shall issue a written notice to all relevant parties to this effect, inclusive of the LPA Tree Officer.

LPA Tree Officer

- The LPA's Tree Officer shall have free access to the site and, should they visit the site and note any tree related issues, they will then report any problems directly to the site manager and, in turn, the Project Tree Consultant, who will then visit the site and make recommendations to the contractor's site manager on how best to rectify the situation.

Site Personnel

- All personnel engaged in the execution of the development works shall be provided with a copy of the AMS and the TPP, and subsequently instructed in the protection of trees, as set out herein.

Sequence of Works & Revisions

- The development works shall be carried out in strict accordance with the 'Sequence of Works' detailed in the table overleaf.
- Any proposed deviations from the 'Sequence of Works' shall be reported to the Project Tree Consultant, who will then review and comment on the modifications accordingly.
- Where the amendments are considered acceptable in relation to retained trees, then the Project Tree Consultant shall prepare and issue a revised version of the AMS to the LPA Tree Officer for comment.
- Should the Tree Officer consider the revised AMS to be acceptable, then the Project Tree Consultant shall issue the report to all pertinent persons, inclusive of the building contractor's site manager, the client/client's agent, and the project engineer.

Acknowledgment of Obligations and Responsibilities of Arboricultural Method Statement

- The site manager shall provide a written acknowledgement, to the client/client's agent, the Project Tree Consultant, and the Tree Officer, that they shall abide by the obligations and responsibilities of the AMS, and that they will be accountable for any breaches of the obligations and responsibilities.

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Table of Sequence of Works:

No.	Operation*	Timing	Responsible Professional	Arboricultural Supervision	Specific Tree Protection Measures During Operation#
i	Pre-contract site meeting between: - Building Contractor's Site Manager; - Project Manager; - Council Tree Officer; and - Project Tree Consultant	To be completed prior to any other works, including deliveries of material, plant, etc.	Building Contractor's Site Manager overseen by Project Manager	N/A	None - however, specific methods of tree protection shall be discussed in detail, in particular the temporary protective fencing types and locations (see Operation iv), between the parties present and, if identified as necessary, a schedule of supplementary recommendations shall be agreed between the parties and subsequently prepared and distributed to said parties by the Building Contractor's Site Manager
ii	Mark up, on site, locations and extents of required Temporary Protective Fencing	Only to commence on completion of Item i	Site Manager overseen by Project Manager	Project Tree Consultant to verbally advise Fencing Contractor with regard to siting and construction of fencing	No vehicular or plant access within retained trees' RPAs under soft surfaces No storage of site materials within RPAs
iii	Erect Temporary Protective Fencing to protect RPAs of specific retained trees, in locations identified on the TPP°	To be erected immediately on completion of Item ii	Fencing Contractor overseen by Site Manager on advice of Project Tree Consultant	Project Tree Consultant to visit site, appraise protection measures, and provide brief report to LPA Tree Officer following their erection (NB: it shall be the Site Manager's responsibility to arrange the Project Tree Consultant site visit)	No vehicular or plant access within retained trees' RPAs under soft surfaces No storage of site materials within RPAs The temporary protective fencing shall be installed in strict accordance with the Temporary Protective Fencing Specification, with 'Type 2' fencing (see Specification) to be utilised subject to the existing and retained surfaces in the specific areas under consideration (NB: any proposed deviations from the Specification should be discussed with the LPA Tree Officer at Operation i, and, where necessary, agreed in writing)
iv	Carry out main phase of construction inclusive of drainage excavations and associated works	Only to commence on completion of Item iii	Building Contractor overseen by Project Manager on advice of Project Tree Consultant	Project Tree Consultant to verbally brief Building Contractor prior to commencement of works	All works involving moving plant with booms, etc., to be supervised by a banksman where close to retained tree canopies to prevent contact and subsequent damage, including vehicles accessing site/delivering materials No vehicular, plant or equipment access within retained trees' RPAs under soft surfaces No storage of site materials within RPAs Install drainage pipes and utilities associated with drainage swale in accordance with guidelines set out in the National Joint Utilities Group publication 'Volume 4: NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (Issue 2) – Operatives Handbook and details on TIP (see TIP).

*Note 1: All operations to be subject to risk assessments and method statements to be provided by applicable contractor(s)

#Note 2: The General Recommendations in Respect of Works, detailed at page 4, shall also be adhered to by all site operatives during all work operations

°Note 3: Refer to appended Temporary Protective Fencing Specification

continued overleaf

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Table of Sequence of Works (cont.):

No.	Operation*	Timing	Responsible Professional	Arboricultural Supervision	Specific Tree Protection Measures During Operation#
v	Complete main construction phase and remove all associated operational materials except the Temporary Protective Fencing	Only to commence on completion of Item iv	Site Manager overseen by Project Manager	LPA Tree Officer to visit site following completion of construction works and prior to Operation viii, below (NB: it shall be the Site Manager's responsibility to arrange the Tree Officer's site visit/inspection)	No vehicular or plant access within retained trees' RPAs under soft surfaces No storage of site materials within RPAs
vi	Remove Temporary Protective Fencing	Only to commence on completion of Item v	Fencing Contractor overseen by Site Manager	Project Tree Consultant to verbally brief Fencing Contractor prior to removal of Temporary Protective Fencing	No vehicular or plant access within retained tree's RPA under soft surfaces No storage of site materials within RPAs
vii	Commence landscaping works, inclusive of any new tree and shrub planting, within and in close proximity to retained trees' RPAs (NB: Understood specifics of replacement tree planting to be conditioned to a planning approval)	Only to commence on completion of Item vi	Landscaping Contractor overseen by Project Manager in consultation with Project Tree Consultant	LPA Tree Officer to visit site following completion of works (note: it shall be the Project Manager's responsibility to arrange Tree Officer's site visit/inspection)	Landscaping Contractor to provide Project Manager and Project Tree Consultant with a detailed schedule in regards to the maintenance of any newly planted trees in accordance with Section 8 BS5837:2012 All landscaping works shall be undertaken in accordance with Section 7 BS5837:2012 including no significant level changes within RPAs No vehicular or plant access within retained trees' RPAs under soft surfaces

*Note 1: All operations to be subject to risk assessments and method statements to be provided by applicable contractor(s)

#Note 2: The General Recommendations in Respect of Works, detailed at page 4, shall also be adhered to by all site operatives during all work operations

°Note 3: Refer to appended Temporary Protective Fencing Specification

continued overleaf

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General Recommendations in Respect of Works:

- All tree works should be implemented by suitably qualified and experienced arboricultural contractors in accordance with the tree works detailed in the Tree Survey Schedule prior to the erection of the Temporary Protective Fencing.
- All tree works should conform to British Standard BS3998:2010 Tree Work - Recommendations.
- Performance of all arboricultural operations and use of equipment should be in accordance with current directives of the Health and Safety Executive (HSE) and industry codes of practice.
- All operatives should be equipped with and use Personal Protective Equipment (PPE) in accordance with current directives of the HSE and industry codes of practice.
- All tree stumps scheduled for removal that are located within a distance of 6.0 metres of any retained tree should be removed by mechanical stump grinder and not by mechanical excavator.
- All possible efforts should be made by the tree contractor and any other site operatives to prevent damage to retained trees.
- There shall be no vehicular or plant (e.g. wood chipper) access within the RPAs of retained trees that are not under hard surfaced areas, as detailed on the TPP.
- All tree works arising should be removed from the site.
- No services are to be installed below ground level within RPAs.
- No construction related operations should occur within RPAs, unless specifically detailed in the Arboricultural Method Statement.
- No concrete should be mixed within RPAs.
- No excavation or any other operations should occur within the RPAs, other than as detailed in the Arboricultural Method Statement.
- All construction equipment and materials should be stored outside RPAs.
- No fires should be lit within 15.0m of any tree crown.
- Deliveries by crane should be supervised by the Site Manager, positioning the vehicle in such a manner that retained trees are not put at risk of damage.
- No substances with potential to contaminate the soil (e.g. chemicals, concrete washings, diesel, vehicle washings, etc.) should be discharged within 10.0 of any tree crown. This should take into consideration the topography of the site in order to avoid materials running towards trees.
- No notice boards, phone cables or services should be attached to any part of any tree.
- A log should be kept of any activity or incident with an impact or potential impact on protected trees and made available at all times for review by the Project Tree Consultant and the Tree Officer.

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT AND PROTECTION APPRAISAL						
Site:	Land off Prescott Park Way, Prescott, Merseyside, L34 1JZ					
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Surveyors:	Joseph Lambert Chartered Arboriculturist & Roland Jones HND ArborA
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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	Hybrid Black Poplar	16	550	N 8 E 6 S 4 W 5	2-E 1	SM	M	- Situated on eastern side of dry ditch with approximately 1m drop. - Slight stem lean to west. - Numerous lower dead branches to west up to approximately 150mm diameter. - Pruning wounds over highway averaging 100mm diameter. - Open spreading crown. - Not projected to be impacted by extent of access and drainage works.	N/A	10+	C1	137	6.6
T2	Hybrid Black Poplar	17.5	750	N 5 E 7 S 8.5 W 5	5-S 4	M	M	- Soil raised and path installed immediately north of stem as part of highway alteration works associated with adjacent residential development. - Lower stem covered with climbing Honeysuckle. - Unable to access or view stem base due to dense bramble, close board fencing and Honeysuckle. - Large 300mm diameter pruning wound with decay to stem at approximately 2m height. - Stem bifurcates at approximately 3m height. - Primary branch of approximately 350mm diameter previously removed at 2m to west, now largely obscured but decay evident. - Further partially occluded pruning wounds to 250mm diameter up stem, with evident decay pockets indicating likely connecting internal decay column. - Multiple branches up to 200mm diameter failed to north-east of canopy. - Approximately 250mm diameter branch at approximately 8m height over road on east side has sustained secondary branch failure with resultant 150mm wide x 1m long wound at 3m distance from stem.	Remove tree due to poor structural condition and subsequent risk of harm to third party road and path users upon further branch/stem failures.	<10	U	254	9

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
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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T3	Common Hawthorn	7	1x160 1x120 1x100 (ms)	N 3 E 2.5 S 2.5 W 2	0.5 1.5	SM		- Ground levels raised by approximately 1m approximately 1.5m north of stem beyond boundary fence as part of highway alterations associated with adjacent development. - Stem trifurcates at a height of approximately 0.5m with tight included bark union. - Stem of approximately 160mm diameter arising to south-east has been removed at 0.5m height with a 300mm long stub remaining.	Remove tree in order to construct proposed access to site.	10+	C1	23	2.68
T4	Sycamore	12	240	N 2 E 3 S 2.5 W 2	3 2	SM	G	Stem wound of approximately 150mm diameter at 4m height on east side, which has partially occluded just below tight bifurcation point.	Remove tree in order to construct proposed access to site.	10+	C1	26	2.88
T5	Common Elder	5	80#	N 2 E 2 S 1 W 1	N/A 0	SM	MD	- Located in dense bramble and subsequently not accessed to inspect. - Largely dead.	Remove tree as is largely dead.	<10	U	17	2.35
T6	Sycamore	11	1x250 1x210 (ts)	N 3 E 4.5 S 3 W 0	0.6 2	SM	G	- Moderately severe stem lean to south-east. - Stem in contact with concrete manhole cover at 300mm height, which is causing contact damage to stem. - Stem highly likely to cause significant displacement of concrete structure through future incremental growth.	Remove tree due to projected displacement of existing concrete drainage structure.	<10	U	48	3.92
T7	Sycamore	12	260	N 3 E 3 S 5 W 3	2.5 2	SM	G	- Slight stem lean to east from ground level. - Moderately severe squirrel damage to bark in upper canopy.	- Retain tree in context of proposed works. - Ensure protection of Root Protection Area (RPA) through establishment of Construction Exclusion Zone (CEZ) in accordance with appended temporary fencing specification.	10+	C1	31	3.12
T8	Common Lime	8	200	N 2.5 E 2 S 1.5 W 2.5	2 2	SM	G	- Part of moderately spaced group of Limes extending north and west around perimeter of roundabout. - Minor encroachment below streetlight. - Not projected to be impacted by proposed works.	N/A	20 +	B1	18	2.4
G1	approx. 16no. Sycamore, Ash, Rowan	≤ 10	≤ 250	N ≤ 3 E ≤ 4 S ≤ 3 W ≤ 2.5	1-S ≥ 1	Y	M	- Mostly suppressed self-seeded group with poor form. - On southern side of brook and on banking.	- Retain group in context of proposed development works. - Ensure protection of RPA through establishment of CEZ in accordance with appended temporary fencing specification.	10+	C1	≤ 28	≤ 3
G2	2no. Sycamore	≤ 5	≤ 50	N ≤ 4.5 E ≤ 5 S ≤ 2 W ≤ 4	2-E ≥ 2	SM	M	- Self-seeded group on edge of brook. - Suppressed growth with deadwood in lower crown. - Exposed roots due to brook. - Not projected to be impacted by proposed works.	N/A	10+	C1	≤ 55	≤ 4.2

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G3	4no. Hornbeam 'Fastigiata'	≤ 3.5	≤ 60#	N E S W	≤ 0.25 ≤ 0.25 ≤ 0.25 ≤ 0.25	N/A ≥ 1	Y	M	- Closely spaced group evidently planted as part of adjacent residential development. - All have bark wounds and poor/defective staking and guarding. - Not projected to be impacted by proposed works.	N/A	10+	C1	≤ 2 ≤ 0.72
G4	4no. Sycamore	≤ 12	≤ 1x220 1x100 (ts)#	N E S W	≤ 2.5 ≤ 2.5 ≤ 2.5 ≤ 2.5	N/A ≥ 1	SM	G	- Not accessed due to dense brambles and undergrowth. - Smaller trees, part of northern section of group G1 associated with previous site survey. - Multiple branches and tight unions from between ground level and 1.2m height. - Moderate stem leans. - Three trees to east are in relatively close proximity to perimeter fence.	- Remove one tree from north of group in order to construct access as proposed (see TIP). - Retain remainder of group in context of proposed works. - Ensure protection of RPA through establishment of CEZ in accordance with appended temporary fencing specification.	10+	C1	≤ 26 ≤ 2.9
G5	Alder, Birch, Buddlea, Dogwood, Oak, Pine, Sycamore	≤ 10	≤ 330	N E S W	≤ 3 ≤ 3 ≤ 3 ≤ 3	N/A ≥ 0	SM	G-D	- Very closely spaced group of planting to south of roundabout, outside site boundary, on moderately steep south facing slope, with some younger extents partly crossing into site to south. - Not fully accessed due to barbed wire, broken glass, debris and dense undergrowth. - Evidently recently constructed macadam pavement 3.5m wide to north with concrete kerbs as part of highway alteration works within 2m of northern most stems and several bark scrapes from mechanical machinery. - Canopies pruned and cleared back to path edge and raised to 3m height over new footpath and to clear sightlines to roundabout. - Two Birch in group are dead and stakes and ties occluding into Pine stems at approximately 0.5m height and restricting incremental growth. - Mutual suppression of trees within group and suppression by larger Poplars to south with resulting poor forms. - Two Pines have tight included bark unions at approximately 2m height and all have branch stubs of 60mm diameter and up to 1m long from clearance works to adjacent footpath.	- Remove approximately 7 stems from group in order to construct access as proposed (see TIP). - Prune southern extents back by approximately 2m in order to facilitate access for construction drainage works. - Retain remainder of group in context of proposed works. - Ensure protection of RPA through establishment of CEZ in accordance with appended temporary fencing specification. - Recommend tree owner undertake silvicultural thinning works (as part of prudent arboricultural management regardless of planning application) and formative pruning to group to prevent suppression of better quality specimens within, and to remove redundant stakes and ties to prevent further stem damage.	10+	C2	≤ 49 ≤ 1.68
G6	Common Hornbeam	≤ 3.5	≤ 140	N E S W	≤ 0.5 ≤ 0.5 ≤ 0.5 ≤ 0.5	2 ≥ 2	SM	G	- Maintained canopies into 1m cubes as ornamental planting on roundabout. - Not projected to be impacted by proposed development.	N/A	20+	C2	≤ 9 ≤ 1.68

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT AND PROTECTION APPRAISAL							
Site:	Land off Prescott Park Way, Prescott, Merseyside, L34 1JZ						
Client:	United Utilities Property Services						

Surveyors:	Joseph Lambert Chartered Arboriculturist & Roland Jones HND ArborA
Survey Dates:	17 January 2022 & 27 May 2022
Job Reference:	BTC2392

Page: 4 of 4

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)
G7	Alder, Birch Pine etc.	≤ 10	≤ 170	N E S W	≤ 2 ≤ 2 ≤ 2 ≤ 2	N/A ≥ 0	Y-SM	M-G	- Very closely spaced group. - Macadam footpath installed within 1m of stems on south-west side. - Debris within group including rubble around some stems. - Mutual suppression with resulting poor forms. - Continues to north and west around perimeter of roundabout. - Canopies conflicting with T7 and further moderate quality Limes to north outside the survey scope. - Not projected to be impacted by proposed development.	Recommend tree owner undertake silvicultural thinning works and formative pruning to group to prevent suppression of better quality specimens within.	10+	C2	≤ 13	≤ 2.04
G8	approx. 2no. Goat Willow	≤ 8	≤ 1x120 2x100 (ms)#	N E S W	≤ 3 ≤ 3 ≤ 2 ≤ 1	N/A ≥ 0	SM	G	- Self-set pair north of palisade fence, and subsequently not accessed or inspected in detail. - Located at base of soil mound and in contact with fence with likely future significant displacement of fencing through further incremental stem and canopy growth. - Not projected to be impacted by proposed development.	N/A	<10	U	≤ 16	≤ 2.23
G9	4no. Hybrid Black Poplar	≤ 19	≤ 680#	N E S W	≤ 6.5 ≤ 6.5 ≤ 9 ≤ 6.5	5 ≥ 0.5	M-PM	P	- Widely spaced linear group continuing west. - Not fully inspected due to location in dense vegetation and western sections location outside survey extents. - Multiple unoccluded and partially occluded pruning wounds on all trees. - Branch epicormics on all trees. - Overall poor condition and expressing significant reductions in vitality. - Newly installed chain link fence also in contact with stem on south side. - Short projected remaining life expectancies of less than 10 years.	Recommended group be removed due to short projected life expectancy and due to increased risk of harm to third parties undertaking proposed works from branch failure. NB: Trees to be retained as standing stems of suitable height.	<10	U	≤ 209	≤ 8.16

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:

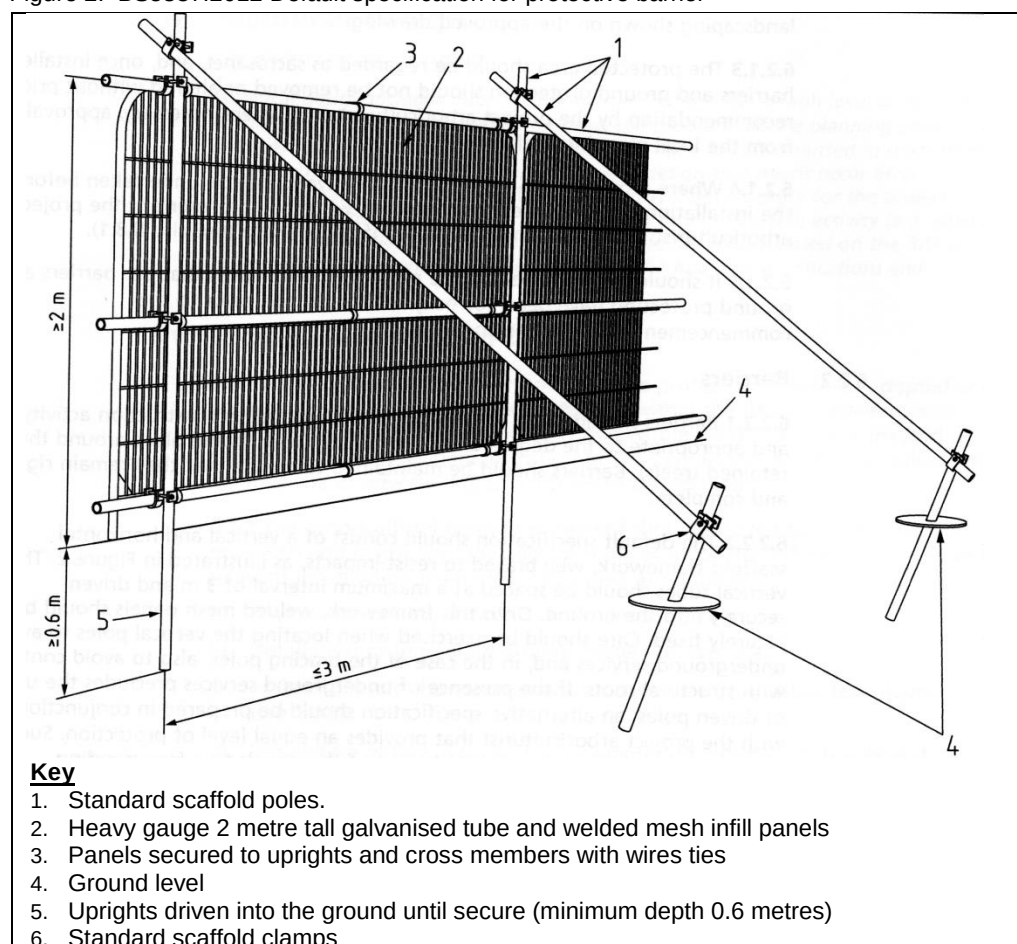
- THE PROTECTIVE FENCING MUST NOT BE MOVED
- NO PERSON SHALL ENTER THE CONSTRUCTION EXCLUSION ZONE
- NO MACHINE, PLANT OR VEHICLES SHALL ENTER THE EXCLUSION ZONE
- NO MATERIALS SHALL BE STORED IN THE EXCLUSION ZONE
- NO SPOIL SHALL BE DEPOSITED IN THE EXCLUSION ZONE
- NO EXCAVATION SHALL OCCUR IN THE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

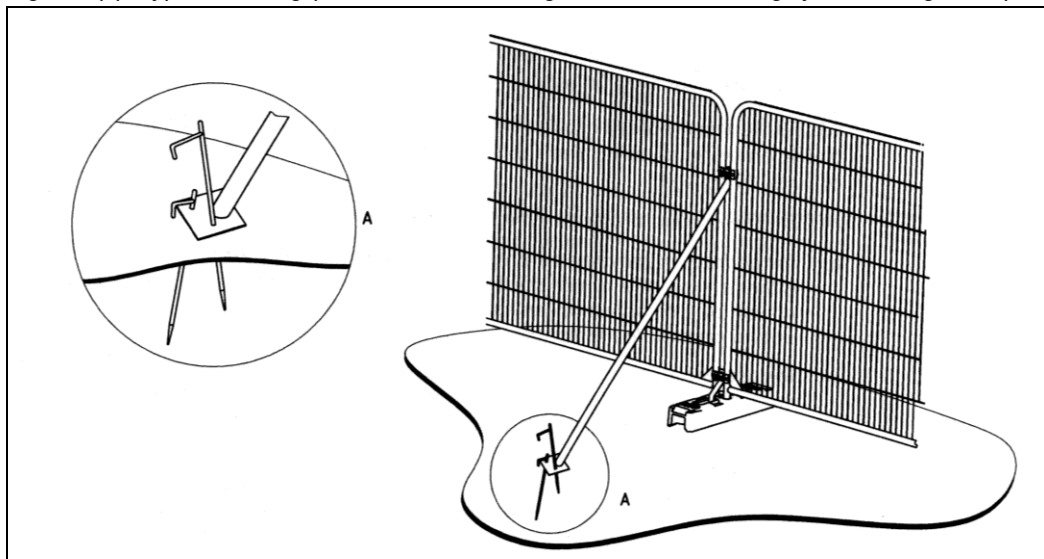
Figure 2: BS5837:2012 Default specification for protective barrier



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.

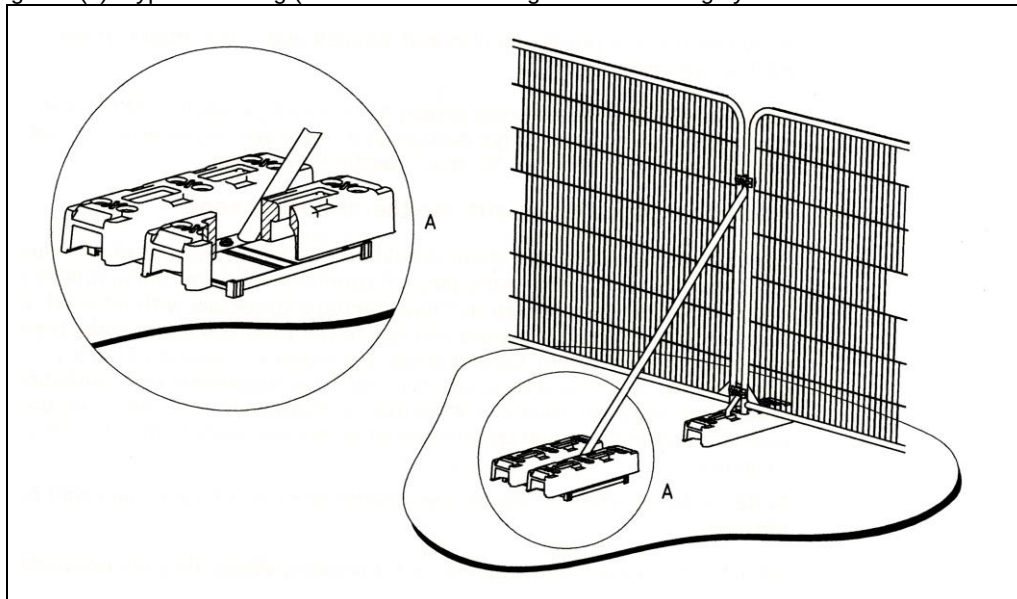
Figure 3(a): Type 2 Fencing (BS5837:2012 above-ground strut stabilising system with ground pins)



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.

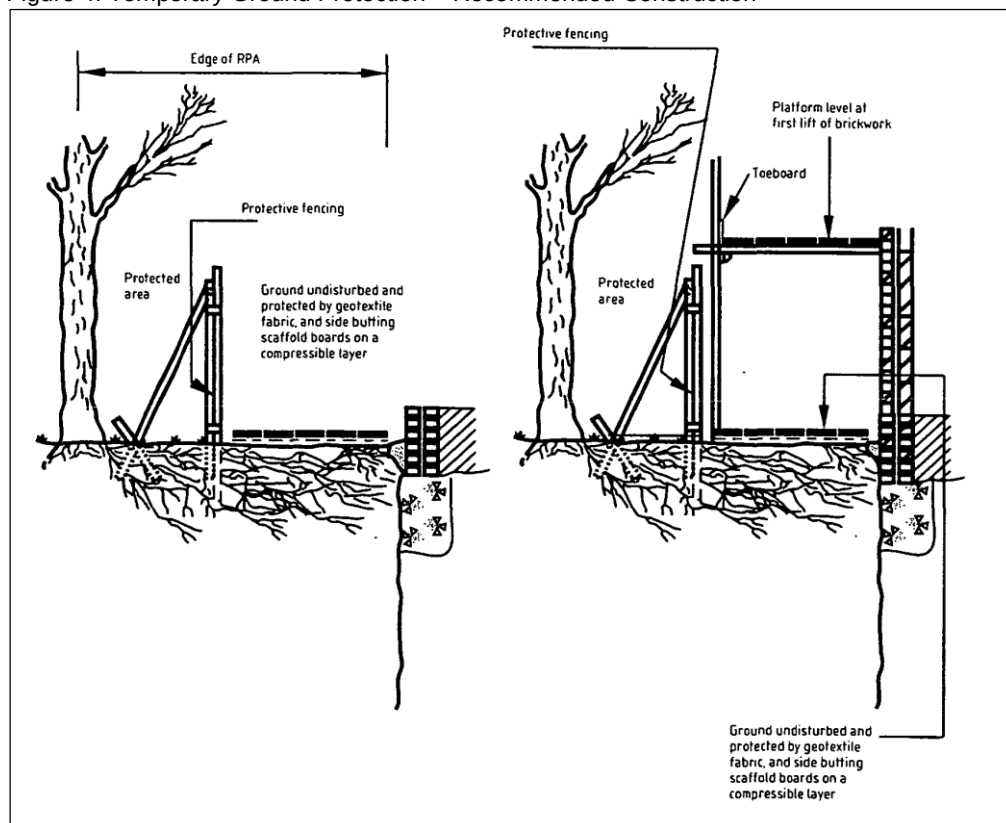
Figure 3(b): Type 3 Fencing (BS5837:2012 above-ground stabilising system with strut on block tray)



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





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 stem location of trees T3 to T7, and the full extents of groups G4, G5, G7 and G8, were not plotted on the topographical survey based site plan provided, and their locations were subsequently plotted by the arboricultural surveyor at the time of the survey using GPS siting and estimation. As such, the plotted location of these trees cannot therefore be considered to be wholly accurate

Root Protection Areas (RPAs):

RPAs
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:
LAND OFF PRESCOT PARK WAY
PRESCOT
MERSEYSIDE
L34 1JZ

Client:
UNITED UTILITIES PROPERTY SERVICES

Title:
TREE CONSTRAINTS PLAN
in Relation to Proposed Construction of Vehicular Access from Prescott Parkway, Excavation and Construction of a Drainage Swale, and Other Associated Works

Scale: 1:500@A2
Date: June 2022
Drawn by: JT
Checked by: RJ

Bowland

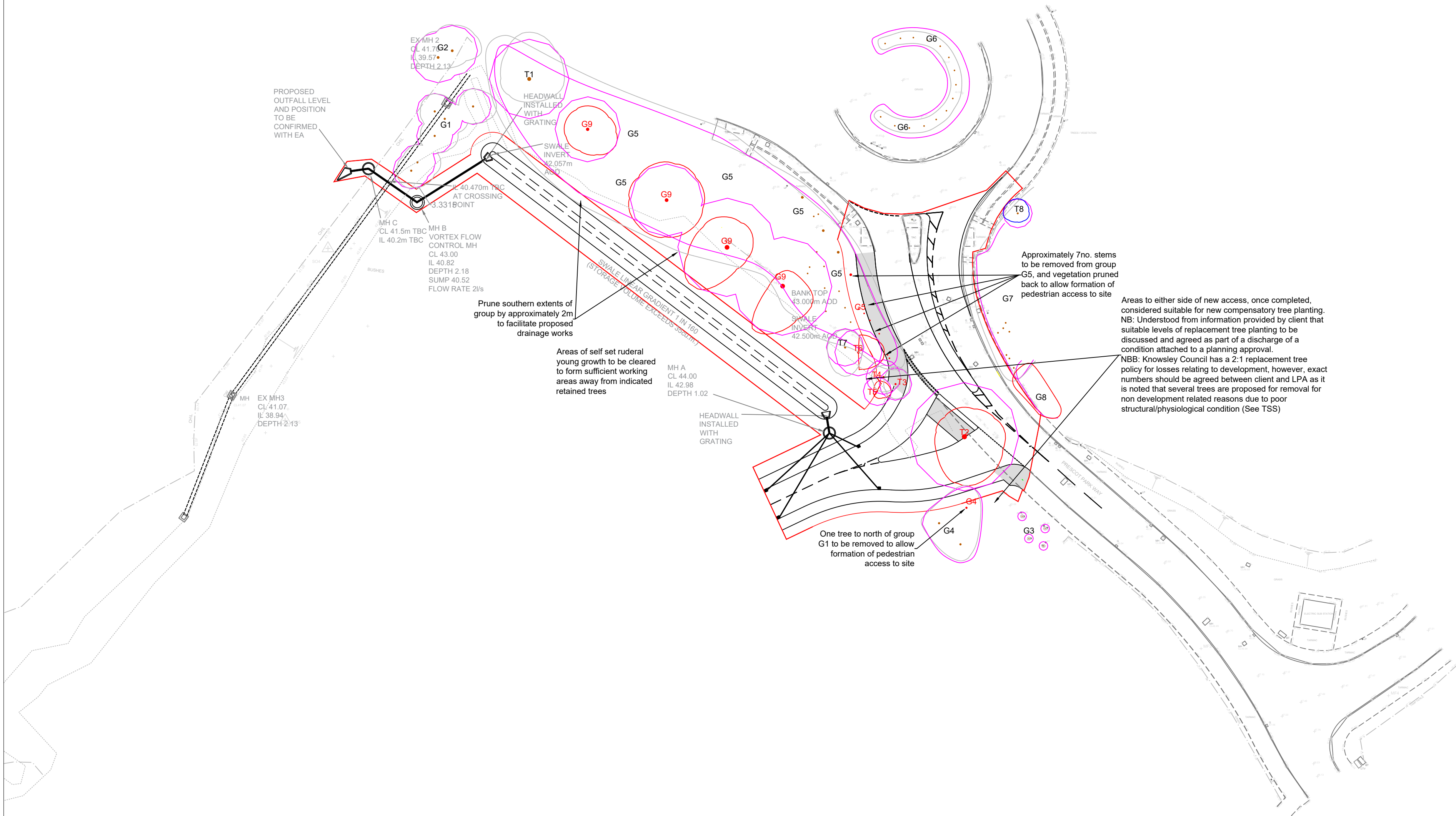
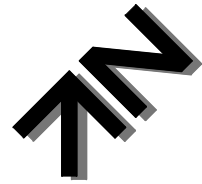
Tree Consultancy Ltd

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

Ref: BTC2392-TCP

Rev: A

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



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 1: The stem location of trees T3 to T7, and the full extents of groups G4, G5, G7 and G8, were not plotted on the topographical survey based site plan provided, and their locations were subsequently plotted by the arboricultural surveyor at the time of the survey using GPS siting and estimation. As such, the plotted location of these trees cannot therefore be considered to be wholly accurate
Note 2: Trees with their identifying numbers and stems labelled in red are proposed for removal in the context of the proposed development

Root Protection Areas (RPAs):

- RPAs
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:
LAND OFF PRESCOT PARK WAY
PRESCOT
MERSEYSIDE
L34 1JZ

Client:
UNITED UTILITIES PROPERTY SERVICES

Title:
TREE IMPACT PLAN
in Relation to Proposed Construction of Vehicular Access from Prescott Parkway, Excavation and Construction of a Drainage Swale, and Other Associated Works

Scale: 1:500@A2
Date: February 2023
Drawn by: JL
Checked by: PH



Ref: BTC2392-TIP Rev:

