



Kingmoor

Wrexham Industrial Estate

Arboricultural Impact Assessment and Arboricultural Method Statement

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Prepared by:
Marianne Dobson CMLI, BA Hons, FdScArb, MArborA
Lantra certified in Professional Tree Inspection
Landscape Architect and Arboricultural Consultant
mdlandscape
6 Kinderton Close
High Legh
Knutsford
Cheshire
WA16 6LZ

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EXECUTIVE SUMMARY

1. This report has been produced to detail the arboricultural impacts of proposed development for new warehouse & distribution units, office accommodation, service yards, parking, access areas and landscaping at Kingmoor, Wrexham Industrial Estate.
2. A Tree Constraints Report and Plans have been produced for the site reference 274/R/100.
3. Based on an objective assessment of the trees, groups of trees, woodland made in accordance with *BS5837:2012 Trees in relation to design, demolition and construction – Recommendations*, a total of 95 individual trees, one woodland compartment and 33 groups of trees and scrub were recorded and 11 hedgerows. The features fall within category A, B, C and U of the BS5837:2012 cascade chart for tree categories.
4. Correspondence with Wrexham Country Borough Council Tree Officer, has identified no Tree Preservation Orders (TPO) at the site and no Conservation Areas are affected by the proposals.
5. The woodland W1 contains two potential veteran trees, T35 and T36 to the northern edge of the site.
6. Numerous trees were observed to have arboricultural features suitable for bats and a separate ecological inspection of the woodland has been undertaken. The capacity of any trees potentially affected by the works to support roosting bats, should be confirmed by an Ecologist prior to undertaking tree works. The trees also provide nesting opportunities for birds and any tree works should occur between September to February to avoid the nesting and breeding bird season from March to August inclusive.
7. A total of 36 individual trees would be removed to facilitate the works. 26 groups of trees would either be removed or partially removed for the development and 5 lengths of hedgerow totalling 644m would be removed. Of the trees to be removed, there are 6 Category A trees, 18 Category B trees, 11 Category C trees and 1 Category U tree.
8. Tree protection will be required to demarcate a Construction Exclusion Zone (CEZ) around trees to be retained prior to site establishment and commencement of construction. This will take the form of temporary tree protection fencing and ground protection to confine site access and avoid detrimental impact on the retained trees.
9. A proposal for replacement planting and habitat enhancement has been developed, reference WRE2205_PP01.00_P3_Planting Plan and Schedule and associated detailed planting plans sheets 1 to 19.
10. This assessment considers potential impacts based on the proposed construction and is valid for two years from the date of the report. Changes to trees can occur as a result of natural processes and disease, as well as the influences of development, therefore regular tree inspections are recommended to monitor the health and condition of the woodland, groups and individual trees.

1 INTRODUCTION

1.1 Scope of assessment

- 1.1.1 MDLandscape have been commissioned by FI-REM Ltd to undertake an Arboricultural Impact Assessment (AIA) and Arboricultural Method Statement (AMS) of a proposed development site at Kingmoor. It has been compiled to help ensure the successful retention of the trees on site during the proposed construction of new warehouse & distribution units, office accommodation, service yards, parking, access areas and landscaping, and details the arboricultural impact to the trees, groups of trees, woodland and hedgerows, proposed protection measures and mitigation.
- 1.1.2 Tree surveys at the site were conducted in May 2023 by M Dobson (FdScArb, MArborA, Lantra certified Professional Tree Inspector) in accordance with *BS5837:2012 Trees in relation to design, demolition and construction – Recommendations*.
- 1.1.3 A topographical survey S23280-T_2D was available at time of survey and has been used to verify tree positions and crown spread. The drawing is included in Figure 2.0 at the end of this report. Several trees were recorded on site that were not picked up on the topographical survey and the stem locations were estimated.
- 1.1.4 This report includes:
- The tree data schedule and constraints plan for trees present within the survey and assessment area;
 - An assessment of trees and impacts on trees in relation to development and requirements for protection during construction; and
 - Recommendations for tree removal, retention and management.
- 1.1.5 This report should be read in conjunction the following arboricultural reports and drawings and relevant ecology reports by UES Ltd:
- Tree Constraints Plans 274/T/100-118 and Tree Constraints Report 274/R/100;
 - Arboricultural Impact Assessment Sheet Plan 274/T/200 and detail plans 201-218; and
 - Arboricultural Method Statement Sheet Plan 274/T/300 and Tree Works Plans (detail plans) 301-318.



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2 THE SITE AND SURROUNDINGS

- 2.1.1 The assessment area is located on land centred on SJ 3944 5035, as shown in Figure 1.0 and is located on the eastern fringes of Wrexham Industrial Estate (“WIE”), east of Bryn Lane and west of the B5130. The site is approximately 5 km (3 miles) to west of Wrexham town centre. WIE was developed during World War II as a munitions factory and post-war, the estate was developed into a facility for industrial and employment uses. The estate consists of standalone industrial sites, industrial estates and business parks.
- 2.1.2 The site itself is primarily a greenfield site, formerly of agricultural use, but with the south area previously a former factory with hard standing and demolition spoil to the central southern area.



Figure 1.0 Site location - Contains ordnance survey data (OpenStreetMap)

- 2.1.3 All trees over 75mm stem diameter at breast height (DBH) and potentially impacted by development, were surveyed. In areas away from the proposed access routes, trees with a stem of 150mm DBH and above were plotted¹ in accordance with BS5837:2012 recommendations for woodland surveys.

¹ Clause 4.2.4 of BS5837:2012 states that *In the case of woodlands or substantial tree groups, only individual trees with stem diameters greater than 150mm usually need to be plotted.*

- 2.1.4 The north site boundary is formed by the wide woodland belt following the course of a ditch, beyond which is a recently built warehouse. To the west on the other side of Bryn Lane is a large operational Kellogg's Factory. To the east is agricultural land and linear settlement of houses and community buildings along B5130, which are part of Isycoed. To the south and accessed off a shared lane, is an industrial unit and landscaped/vegetated area.
- 2.1.5 There is limited public access into the site and views are well screened by the existing boundary hedges, scrub and tree cover. A Public Right of Way ISY/18 runs between Bryn Lane to the south west leading to B5130 at Isycoed to the east and passes the south east corner of the site. There are occasional views into the site at this point, but the site is further screened by landform to the south and east boundary.

2.2 The Development Proposals

- 2.2.1 The AIA and AMS have been prepared in relation to a Hybrid planning application for (a) outline permission (all matters reserved except for means of access) for erection of up to 3 warehouse & distribution units (Use Class B8), including ancillary office accommodation, comprising up to 93,019 sqm net floorspace, service yards, car parking, HGV parking, internal circulation, landscaping and ancillary works; and (b) detailed permission for demolition, means of access, earthworks, drainage, landscaping, ecology zone and relative ecological mitigation measures, and ancillary works.
- 2.2.2 The proposed site layout is shown on the planning application drawing 1204-02-001 Proposed 3 Unit Site Plan-Rev P3.
- 2.2.3 The landscape and ecology proposals are shown on WRE2205_PP01.00_P3_Planting Plan and Schedule and detailed planting plans. Drawing WRE2205_PP01.00_P3_Planting Plan and Schedule is overlaid on the AIA and AMS drawings for context.
- 2.2.4 An enquiry to the Wrexham CBC Tree Officer to confirm Tree Preservation Order (TPO) status was made on 10th May 2023. Confirmation has been received (11th May 2023) that there are no TPO at the site and the survey area is not within a conservation area.
- 2.2.5 There are trees subject to TPO beyond the site boundary, to the east between Barn Cottage and Plum Tree House, TPO reference WCBC No 191, 2012 Land adjacent to Barn Cottage, Bowling Bank, Wrexham.

2.3 Ancient Woodland, Veteran and Ancient Trees

- 2.3.1 An examination of the Natural Resources Wales (NRW) Interactive Map Viewer on 10th May 2023² confirms there is no ancient woodland within the survey area. There is no comprehensive national register of veteran trees, however, an examination of the Woodland Trust Ancient Tree Inventory³ confirms the presence of recorded veteran trees along Ridley Wood Road to the north of the site.
- 2.3.2 The trees displaying early veteran tree characteristics are present at the woodland edge to the north of the site, (see photos in Appendix 2) and include:
- T35 Oak - stem diameter 1170mm, girth 3.65m circumference
T36 Oak - stem diameter 1440mm, girth 4.4m circumference
- It is anticipated that all of these trees can be satisfactorily protected during the development works.

2.4 Protected Species

- 2.4.1 Trees and hedges are a potential habitat for nesting birds and roosting habitat for bats, both of which are protected under the *Wildlife and Countryside Act 1981* (as amended) and certain species under the *Conservation of Species and Habitat Regulations 2010*. This makes it an offence to intentionally or recklessly, damage or destroy an active birds' nest.
- 2.4.2 Several trees within the survey boundary may be suitable habitat for nesting birds and roosting habitat for bats, therefore all trees should be inspected for the absence or presence of nesting bird activity or presence of bats, before removal or major pruning work is carried out. A qualified Ecologist should be appointed to ensure a preliminary ecological assessment is undertaken.

² Natural Resources Wales Interactive Map Viewer [Geocortex Viewer for HTML5 \(cyfoethnaturiolcymru.gov.uk\)](https://geocortex.naturalresources.wales.gov.uk/)

³ Ancient Tree Inventory [How to record ancient trees - Ancient Tree Inventory \(woodlandtrust.org.uk\)](https://www.woodlandtrust.org.uk/ancient-trees/how-to-record-ancient-trees/)

3 PLANNING CONSIDERATIONS

3.1 Planning Policy

3.1.1 In addition to statutory designations and protection, the planning system also confers importance on trees and woodland in the context of potential development. The Planning Policy Wales document⁴ states a number of policies relating to trees and benefits of trees in design, specifically relating to trees, woodlands and hedgerows in paragraphs 6.4.24 to 6.4.27:

6.4.24 *Trees, woodlands, copses and hedgerows are of great importance for biodiversity. They are important connecting habitats for resilient ecological networks and make a valuable wider contribution to landscape character, sense of place, air quality, recreation and local climate moderation. They also play a vital role in tackling the climate emergency by locking up carbon, and can provide shade and shelter, a sustainable energy source and building materials. The particular role, siting and design requirements of urban trees in providing health and well-being benefits to communities, now and in the future should be promoted as part of plan making and decision taking.*

6.4.25 *Planning authorities should protect trees, hedgerows, groups of trees and areas of woodland where they have ecological value, contribute to the character or amenity of a particular locality, or perform a beneficial and identified green infrastructure function. Planning authorities should consider the importance of native woodland and valued trees, and should have regard, where appropriate, to local authority tree strategies or SPG. Permanent removal of woodland should only be permitted where it would achieve significant and clearly defined public benefits. Where woodland or trees are removed as part of a proposed scheme, developers will be expected to provide compensatory planting.*

6.4.26 *Ancient woodland and semi-natural woodlands and individual ancient, veteran and heritage trees are irreplaceable natural resources, and have significant landscape, biodiversity and cultural value. Such trees and woodlands should be afforded protection from development which would result in their loss or deterioration unless there are significant and clearly defined public benefits; this protection should prevent potentially damaging operations and their unnecessary loss. In the case of a site recorded on the Ancient Woodland Inventory, authorities should consider the advice of NRW. Planning authorities should also have regard to the Ancient Tree Inventory.*

6.4.27 *The protection and planting of trees and hedgerows should be delivered, where appropriate, through locally specific strategies and policies, through imposing conditions when granting planning permission, and/or by making Tree Preservation Orders (TPOs). They should also be incorporated into Green Infrastructure Assessments and plans.*

⁴ Planning Policy Wales, Edition 11, February 2021 Welsh Government [Planning Policy Wales - Edition 11 \(gov.wales\)](https://gov.wales/planning-policy-wales)

4 TREE POPULATION AND CONDITION

4.1 Tree species and population

- 4.1.1 The trees surveyed included the following species: oak, ash, blackthorn, hawthorn, willow species, silver birch, field maple, crab apple, wild cherry, wych elm, alder, Italian alder, sycamore, hazel, dogwood, guelder rose and holly.
- 4.1.2 A total of 95 individual trees, one woodland compartment and 33 groups of trees and scrub were recorded and 11 hedgerows.
- 4.1.3 A detailed description of the woodland, groups of trees, individual trees and hedgerows is given in the Tree Constraints Report 274/R/100.
- 4.1.4 During the assessment, the overall tree population, composition of groups and woodland, arboricultural, landscape and conservation qualities have been considered. A full description of the woodland compartment, groups of trees and individual trees, is given in the tree data schedule in Appendix 1 and is not repeated in the body of the report.

4.2 Categorisation and value

- 4.2.1 Trees, groups of trees and woodland compartment within the survey area have been identified within categories A, B, C and U. An individual category U tree, T1 has been recommended for removal due to poor structural and unsafe condition.
- 4.2.2 The trees surveyed are detailed in the tree data schedule in Appendix 1. Photographs of notable trees, groups, woodland and general character of the site vegetation are illustrated in the Tree Constraints Report 274/R/100.
- 4.2.3 A summary of the cascade chart for tree categories is given below. The full table is included within the Tree Constraints Report.
- Category A Trees of high value including those that are particularly good examples of their species and/or those that have visual importance or significant conservation or other value.
 - Category B Trees of moderate value including those that do not qualify as Category A due to impaired condition and/or those that collectively have higher value than they would as individuals; also trees with material conservation or other value.
 - Category C Trees of low value including those with very limited merit or impaired condition; trees offering transient or temporary landscape benefits.
 - Category U Trees with irremediable defects and anticipated early loss due to collapse; dead trees or those in immediate decline and those with infectious pathogens that threaten other trees.

4.2.4 A summary of the baseline of the existing tree and hedgerow population is given in Table 1.0 below:

BASELINE TREE AND HEDGEROW POPULATION		CATEGORY A High quality		CATEGORY B Moderate quality		CATEGORY C Low quality		CATEGORY U Unsuitable for retention		HEDGEROW (Not categorised under BS5837:2012; formal hedgerow survey not undertaken)	
FEATURE	Total Number	Quantity	Area of crown/ canopy spread (ha)	Quantity	Area of crown/ canopy spread (ha)	Quantity	Area of crown/ canopy spread (ha)	Quantity	Area of crown/ canopy spread (ha)	Quantity	Total length (m)
TREE	95	33	0.4971	41	0.3436	20	0.1448	1	0.00538		
GROUP	33	1	0.0875	11	2.1421	21	1.6665	0	0		
WOODLAND	1	1	1.6046	0	0	0	0	0	0		
HEDGEROW	11									11	1666
TOTAL		35	2.1892	52	2.4857	41	1.8113	1	0.00538		

Table 1.0 Baseline of the existing tree and hedgerow population, by quantity of features, BS5837:2012 category rating and as a measure of canopy/crown cover.

5 ARBORICULTURAL IMPACTS OF THE PROPOSED DEVELOPMENT

5.1 Trees to be removed to facilitate development

- 5.1.1 The proposed site layout including the soft landscape and habitat enhancement proposals, has been overlaid onto the Tree Constraints Plan to identify the potential impact of the permanent works on existing trees, groups of trees, woodland and hedgerows and is shown on drawing 1204-02-001 Proposed 3 Unit Site Plan-Rev P3.
- 5.1.2 Hedgerows have not been afforded a quality category rating, as they do not fall within the scope of BS5837:2012, but their composition, height, width, approximate age and condition are noted in the survey data schedule.

5.2 Impacts as a result of tree removal

- 5.2.1 Due to the extensive footprint of the development, the majority of trees and hedgerows to the central area of the site would be removed, whilst the peripheral vegetation along Bryn Lane to the east, scrub and woodland to the north, scrub group to the east and to the south would be retained. The area beyond group G23 to the east and south of groups G15-18 and G27-28 would be retained and enhanced, forming a soft landscape buffer and habitat zone around the new development.
- 5.2.2 A total of 36 individual trees would be removed to facilitate the works. 26 groups of trees would either be removed or partially removed for the development and 5 lengths of hedgerow totalling 644m would be removed. Of the trees to be removed, there are 6 Category A trees, 18 Category B trees, 11 Category C trees and 1 Category U trees.
- 5.2.3 Individual trees of particular value for landscape or habitat value and of mature size and age that would be lost as a result of development, include those along hedgerows H1 and H3. The majority of these trees are oaks (T11 to T18) and T21, T53, T58 and T91-T94. Due to the proposed development layout, it is currently not possible to retain these trees.
- 5.2.4 The majority of vegetation to be removed is category B and C, with four lengths of hedgerow affected through the middle of the site, H4 and H5 to the centre and east and H1 and H3 to the north west.
- 5.2.5 The category B groups include native scrub and tree species of good screening, landscape and habitat value. Features of value that would be lost include G1 to the north east and north west of the lorry park, G4 between the lorry park and pond, G11 and G12 around the pond to the centre south of the site, G26 and G32.

- 5.2.6 Several groups that are dominated by willow would be removed for development and these are primarily to the central area of the site. These groups are considered to be category C due to age, condition and general contribution to landscape and amenity. The removal of these groups would not have an adverse effect on landscape character and visual amenity. The groups do have habitat value as early stages of wet woodland and willow carr around the ponds. Retention of group G27 and enhancement of this area is included in the landscape and ecology proposals.
- 5.2.7 Retention of groups, woodland, mature trees and hedgerow to the perimeter of the site would allow the majority of the site to continue to be screened by vegetation from most aspects and loss of planting to the centre of the site would be less noticeable than removal of planting to the east and south east near the entrance off Bryn Lane.
- 5.2.8 Following removal of trees and groups of trees, an assessment of the newly created edge to the groups would need to be undertaken, to ascertain whether any remedial or formative pruning of retained trees would be required. Due to the density of scrub in many areas of the groups, this assessment would be required as a second phase of works following initial tree removal and should be undertaken on a tree by tree basis according to species, age and condition.
- 5.2.9 The impact of the tree losses in the woodland are summarised as follows and as given in Table 2.0:

IMPACT OF DEVELOPMENT AND EFFECTS ON THE TREE AND HEDGEROW POPULATION	CATEGORY A High quality		CATEGORY B Moderate quality		CATEGORY C Low quality		CATEGORY U Unsuitable for retention		HEDGEROW (Not categorised under BS5837:2012; formal hedgerow survey not undertaken)	
FEATURE	Quantity Removed	Area of crown/canopy spread removed (ha)	Quantity Removed	Area of crown/canopy spread removed (ha)	Quantity Removed	Area of crown/canopy spread removed (ha)	Quantity Removed	Area of crown/canopy spread removed (ha)	Quantity removed	Total length removed (m)
TREE	6	0.1059	18	0.1217	11	0.09002	1	0.00538		
GROUP	0	0	8 removed or partially removed	0.9427	18 removed or partially removed	1.1182	0	0		
WOODLAND	0	0	0	0	0	0	0	0		
HEDGEROW									5	644
TOTAL	6	0.1059	26	1.0644	29	1.20822	1	0.00538		

Table 2.0 Impact of development and effects on the tree and hedgerow population.

5.2.10 The impact of the tree losses will be most noticeable from the site entrance off Bryn Lane, which is currently well screened by dense scrub and mature tree cover. While the tree clearance works will be noticeable at this point, the retention of trees, hedgerow, scrub and woodland to the site periphery, will aid screening of the construction works and permanent development.

5.2.11 Features over 75mm DBH requiring removal and proposed tree works are shown in Table 3.0⁵ on the following pages.

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Affected by development	Proposed works
TREES - estimated measurements are underlined						
T1	Populus nigra 'Italica' (Lombardy poplar)	1400	U	16.8	Recommended for removal due to condition	Remove
T2	Quercus robur (English oak)	540	A2	6.48	No	Retain and protect during construction works
T3	Quercus robur (English oak)	560	A2	6.72	No	Retain and protect during construction works
T4	Quercus robur (English oak)	<u>750</u>	A2	9	No	Retain and protect during construction works
T5	Quercus robur (English oak)	<u>800</u>	A2	9.6	No	Retain and protect during construction works
T6	Fraxinus excelsior (ash)	<u>540</u>	B2	6.48	No	Retain and protect during construction works
T7	Fraxinus excelsior (ash)	<u>280</u>	A2	3.36	No	Retain and protect during construction works
T8	Quercus robur (English oak)	<u>650</u>	A2	7.8	No	Retain and protect during construction works
T9	Quercus robur (English oak)	340	B2	4.08	Adjacent to proposed building	Retain and protect during construction works
T10	Fraxinus excelsior (ash)	380	C2	4.56	Yes within footprint of proposed building	Remove
T11	Quercus robur (English oak)	680	B3	8.16	Yes within footprint of proposed building	Remove

⁵ Refer to the tree survey data schedules for further information.

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radi s of RPA (m)	Affected by development	Proposed works
T12	Fraxinus excelsior (ash)	200	B2	2.4	Yes within footprint of proposed building	Remove
T13	Quercus robur (English oak)	780	B3	9.36	Yes within footprint of proposed building	Remove
T14	Quercus robur (English oak)	840	A2	10.08	Yes within footprint of proposed building	Remove
T15	Quercus robur (English oak)	400	C2	4.8	Yes within footprint of proposed building	Remove
T16	Quercus robur (English oak)	880	B3	10.56	Yes within footprint of proposed loading bays	Remove
T17	Quercus robur (English oak)	760	A3	9.12	Yes within footprint of proposed loading bays	Remove
T18	Quercus robur (English oak)	960	A2	11.52	Yes within footprint of proposed loading bays	Remove
T19	Betula pendula (silver birch)	370	B2	4.44	Yes within proposed access road area	Remove
T20	Salix caprea (goat willow)	<u>600 basal dia.</u>	C2	6	Yes within proposed access road area	Retain and protect during construction works
T21	Quercus robur (English oak)	780	A2	9.36	Yes within footprint of proposed loading bays	Remove
T22	Betula pendula (silver birch)	140	B1	1.68	Yes within footprint of proposed building	Remove
T23	Quercus robur (English oak)	<u>620</u>	A2	7.44	No	Retain and protect during construction works
T24	Fraxinus excelsior (ash)	440	B1	5.28	No	Retain and protect during construction works
T25	Fraxinus excelsior (ash)	550	B3	6.6	No	Retain and protect during construction works
T26	Fraxinus excelsior (ash)	420	C2	5.04	No	Retain and protect during construction works
T27	Quercus robur (English oak)	510	A2	6.12	No	Retain and protect during construction works

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
T28	Quercus robur (English oak)	530	B3	6.36	No	Retain and protect during construction works
T29	Fraxinus excelsior (ash)	<u>450</u>	B2	5.4	No	Retain and protect during construction works
T30	Quercus robur (English oak)	500	B2	6	No	Retain and protect during construction works
T31	Salix alba (white willow)	640	C2	7.68	No	Retain and protect during construction works
T32	Salix alba (white willow)	910	C2	10.92	No	Retain and protect during construction works
T33	Salix alba (white willow)	600	B2	7.2	No	Retain and protect during construction works
T34	Quercus robur (English oak)	650	A1, A2	7.8	No	Retain and protect during construction works
T35(V)	Quercus robur (English oak)	1170	A2, A3	14.04	No	Retain and protect during construction works
T36(V)	Quercus robur (English oak)	1440	A2, A3	17.28	No	Retain and protect during construction works
T37	Quercus robur (English oak)	<u>700</u>	A2, A3	8.4	No	Retain and protect during construction works
T38	Crataegus monogyna (hawthorn)	<u>400 basal dia.</u>	C2	4	No	Retain and protect during construction works
T39	Quercus robur (English oak)	450	A2	5.4	No	Retain and protect during construction works
T40	Fraxinus excelsior (ash)	200 350	B2	4	No	Retain and protect during construction works
T41	Ulmus glabra (wych elm)	<u>200</u>	C2	2.4	No	Retain and protect during construction works

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
T42	Acer campestre (field maple)	<u>140 130</u>	B2	1.9	No	Retain and protect during construction works
T43	Quercus robur (English oak)	<u>400</u>	A2	4.8	No	Retain and protect during construction works
T44	Salix caprea (goat willow)	<u>1000 basal dia.</u>	C2	10	Yes within footprint of proposed building	Remove
T45	Quercus robur (English oak)	<u>700</u>	B3	8.4	Yes within proposed new soft landscape area with public access; unsuitable for retention in this setting	Remove
T46	Quercus robur (English oak)	180	B2	2.16	No	Retain and protect during construction works
T47	Prunus avium (wild cherry)	220	B2	2.64	To edge of new soft landscape area	Retain and protect during construction works, incorporate into new soft landscape area
T48	Quercus robur (English oak)	180	B2	2.16	No	Retain and protect during construction works
T49	Quercus robur (English oak)	180	B2	2.16	No	Retain and protect during construction works
T50	Malus sylvestris (crab apple)	250	A2, A3	3	To edge of new soft landscape area	Retain and protect during construction works, incorporate into new soft landscape area
T51	Fraxinus excelsior (ash)	220	B2	2.64	Remove due to anticipated future impact on culvert headwall	Remove
T52	Quercus robur (English oak)	690	B2	8.28	Yes within footprint of proposed building	Remove
T53	Quercus robur (English oak)	710	A1, A2	8.52	Yes within footprint of proposed building	Remove
T54	Betula pendula (silver birch)	190 200	B2	2.8	Yes within footprint of proposed building	Remove

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
T55	Salix caprea (goat willow)	<u>1200</u> basal dia.	C2	12	Yes within footprint of proposed building	Remove
T56	Salix caprea (goat willow)	<u>450</u> basal dia.	C2	4.5	Yes within footprint of new car park	Remove
T57	Betula pendula (silver birch)	220	B2	2.64	Yes within footprint of new car park	Remove
T58	Quercus robur (English oak)	920	A3	11.04	Yes within footprint of new car park	Remove
T59	Salix caprea (goat willow)	<u>600</u> basal dia.	C2	6	Yes within footprint of new car park	Remove
T60	Betula pendula (silver birch)	250	C3	3	Yes within footprint of new car park	Remove
T61	Betula pendula (silver birch)	330 120	C2	3.2	Yes within footprint of new car park	Remove
T62	Salix caprea (goat willow)	<u>1200</u> basal dia.	C2	12	Yes within footprint of new car park	Remove
T63	Salix caprea (goat willow)	<u>900</u> basal dia.	C2	9	Yes within footprint of new car park	Remove
T64	Populus nigra 'Italica' (Lombardy poplar)	<u>1000</u>	B2	12	Yes within footprint of new car park	Remove
T65	Betula pendula (silver birch)	350 410	B2	5.4	Yes within footprint of proposed building	Remove
T66	Betula pendula (silver birch)	380	B2	4.56	Yes within footprint of proposed building	Remove
T67	Fraxinus excelsior (ash)	<u>440</u>	B1	5.28	Within area of retained scrub/woodland	Retain and protect during construction works
T68	Crataegus monogyna (hawthorn)	<u>400</u> basal dia.	B3	4	No	Retain and protect during construction works
T69	Quercus robur (English oak)	970	A2	11.64	No	Retain and protect during construction works
T70	Quercus robur (English oak)	<u>840</u>	A2	10.08	No	Retain and protect during construction works
T71	Quercus robur (English oak)	<u>920</u>	A2	11.04	No	Retain and protect during construction works
T72	Quercus robur (English oak)	<u>1050</u>	A3	12.6	No	Retain and protect during construction works

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
T73	Quercus robur (English oak)	<u>550</u>	B3	6.6	No	Retain and protect during construction works
T74	Fraxinus excelsior (ash)	<u>440</u>	C2	5.28	No	Retain and protect during construction works
T75	Quercus robur (English oak)	<u>950</u>	A1, A2	11.4	No	Retain and protect during construction works
T76	Acer campestre (field maple)	<u>350</u>	C2	4.2	No	Retain and protect during construction works
T77	Quercus robur (English oak)	<u>520</u>	B2	6.24	No	Retain and protect during construction works
T78	Quercus robur (English oak)	<u>480</u>	A1, A2	5.76	No	Retain and protect during construction works
T79	Quercus robur (English oak)	<u>500</u>	B2, B3	6	No	Retain and protect during construction works
T80	Quercus robur (English oak)	<u>350</u>	B3	4.2	No	Retain and protect during construction works
T81	Quercus robur (English oak)	<u>950</u>	A2	11.4	No	Retain and protect during construction works
T82	Quercus robur (English oak)	<u>1100</u>	A3	13.2	No	Retain and protect during construction works
T83	Quercus robur (English oak)	<u>600</u>	B2	7.2	No	Retain and protect during construction works
T84	Quercus robur (English oak)	<u>220</u>	B1, B2	2.64	No	Retain and protect during construction works
T85	Quercus robur (English oak)	<u>440</u>	B1, B2	5.28	No	Retain and protect during construction works
T86	Quercus robur (English oak)	<u>480</u>	A2	5.76	No	Retain and protect during construction works

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
T87	Salix caprea (goat willow)	<u>400 basal dia.</u>	C2	4	No	Retain and protect during construction works
T88	Quercus robur (English oak)	370	A2	4.44	No	Retain and protect during construction works
T89	Quercus robur (English oak)	500 520	A2	7.2	No	Retain and protect during construction works
T90	Quercus robur (English oak)	600	A2	7.2	No	Retain and protect during construction works
T91	Acer pseudoplatanus (sycamore)	<u>240</u>	B1	2.88	Yes within footprint of proposed building	Remove
T92	Quercus robur (English oak)	<u>600</u>	B2, B3	7.2	Yes within footprint of proposed building	Remove
T93	Acer pseudoplatanus (sycamore)	<u>260</u>	B2	3.12	Yes within footprint of proposed building	Remove
T94	Quercus robur (English oak)	<u>600</u>	B2	7.2	Yes within footprint of proposed building	Remove
T95	Quercus robur (English oak)	<u>450 basal dia.</u>	C2	4.5	No	Retain and protect during construction works
GROUPS OF TREES Crown extents taken from topographical survey and Bluesky aerial imagery; majority of groups difficult to survey stem dia. Due to dense scrub						
G1	Predominantly scrub species: Hawthorn Blackthorn Rose species Smaller quantities of: Silver birch, ash under 75mm dbh Goat willow Elder	not recorded	B2	see plan	Yes, within new soft landscape zone adjacent to building (west) and in area of proposed loading bays (east)	Partial removal for construction; protect retained vegetation during construction
G2	Blackthorn Hawthorn Holly Silver birch and Oak saplings under 75mm dbh	not recorded	C2	see plan	Yes, within footprint of new building	Remove

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
G3	Predominantly scrub species: Hawthorn Blackthorn Rose species Smaller quantities of: Goat willow to south edge of group	not recorded	C2	see plan	Yes, within proposed car park area	Remove
G4	Predominantly scrub species: Hawthorn Blackthorn Rose species Goat willow Silver birch Smaller quantities of: Field maple Oak Sycamore White willow Crab apple	not recorded	B2	see plan	Yes, within footprint of new building and car park	Remove
G5	Predominantly willow species: Goat willow Smaller quantities of: White willow Silver birch Blackthorn Hawthorn Field maple	not recorded	C2	see plan	Yes, within footprint of new building and car park	Remove
G6	Small group: Goat willow Silver birch White willow	not recorded	C2	see plan	Yes, within footprint of new building and car park	Remove
G7	Predominantly scrub species: Hawthorn Blackthorn Rose species Goat willow Field maple Crab apple	not recorded	C2	see plan	Yes, within footprint of new building and car park	Remove

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
G8	Predominantly scrub species: Hawthorn Blackthorn Rose species Goat willow Crab apple Ash	not recorded	C2	see plan	Yes within car park and soft landscape zone	Partial removal for construction; protect retained vegetation during construction
G9	Linear group of ash (15)	up to 670	A2	see plan	No	Retain and protect during construction works
G10	Goat willow	stems up to 220	C2	see plan	Yes within new landscape zone, access area and car park	Remove
G11	Oak (8) Silver birch Crab apple	up to 250	B1, B2	see plan	Yes within footprint of new building	Remove
G12	Hawthorn Blackthorn Rose species Silver birch Field maple Oak Goat willow White willow	not recorded	B2, B3	see plan	Yes within footprint of new building, soft landscape zone and drainage area	Partial removal for construction; protect retained vegetation during construction
G13	Goat willow Occasional hawthorn	stems up to 280	C2	see plan	Yes within footprint of new building, soft landscape zone and car park	Remove
G14	Hawthorn	<u>300 300</u> <u>500BD</u>	C2	see plan	Yes within footprint of new building, soft landscape zone and car park	Remove
G15	Goat willow Hawthorn Blackthorn Silver birch Oak Ash	not recorded	C2	see plan	Yes within footprint of new building, soft landscape zone and car park	Partial removal for construction; protect retained vegetation during construction

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
G16	Predominantly scrub species: Hawthorn Blackthorn Rose species Field maple Silver birch Lower proportion of: Oak Goat willow Symphoricarpos	not recorded	C2	see plan	Yes within footprint of new building, soft landscape zone and drainage area	Partial removal for construction; protect retained vegetation during construction
G17	Silver birch (6) Sycamore (7)	up to 280	B2	see plan	Yes within drainage zone	Partial removal to north of group for construction; protect retained vegetation during construction
G18	Regeneration of Silver birch Sycamore Hawthorn Blackthorn	not recorded	C2	see plan	Yes within drainage zone	Partial removal to north of group for construction; protect retained vegetation during construction
G19	Natural regeneration under 75mm dbh silver birch, field maple, oak, blackthorn, hawthorn, goat willow, with larger goat willow to east end of building	up to 100mm	C2	see plan	Yes within new landscape zone, access area and car park	Partial removal for new landscaping
G20	Hawthorn Field maple	<u>up to 600 BD</u>	B2	see plan	No	Retain and protect during construction works
G21	Silver birch	up to 250	B2	see plan	No	Retain and protect during construction works
G22	Silver birch Field maple Goat willow Hawthorn Sycamore Alder	up to 240	B2	see plan	No	Retain and protect during construction works

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radiu s of RPA (m)	Affected by development	Proposed works
G23	Predominantly scrub planting to ditch with occasional trees Blackthorn Hawthorn Field maple Goat willow Oak Crab apple Silver birch white willow Guelder rose Italian alder	not recorded	B2, B3	see plan	No	Retain and protect during construction works
G24	Blackthorn Hawthorn	not recorded	C2	see plan	No	Retain and protect during construction works
G25	Goat willow White willow Hawthorn Blackthorn	not recorded	C2	see plan	No	Retain and protect during construction works
G26	Predominantly scrub with some tree species: Blackthorn Hawthorn Crab apple Field maple Goat willow Silver birch occasional oak under 75mm dbh	not recorded	B2, B3	see plan	Yes, within footprint of new building and drainage area	Remove
G27	Goat willow White willow	not recorded	C2	see plan	Yes, within footprint of new building and drainage area	Partial removal for construction; protect retained vegetation during construction
G28	Scrub: Blackthorn Hawthorn Buddleia Goat willow Silver birch Dogwood	not recorded	C2	see plan	No	Outside construction area

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radi s of RPA (m)	Affected by development	Proposed works
G29	Mainly : Goat willow White willow Hawthorn With occasional: Oak and ash under 80mm dbh Blackthorn	not recorded	C2	see plan	Yes, within footprint of new building	Remove
G30	Blackthorn Hawthorn	not recorded	C2	see plan	Yes, within footprint of new building and car park	Remove
G31	Goat willow White willow Hawthorn Silver birch	not recorded	C2	see plan	Yes, within footprint of new building and car park	Remove
G32	Blackthorn Hawthorn	up to 420	B2	see plan	Yes, within footprint of new building and car park	Remove
G33	Goat willow White willow	not recorded	C2	see plan	Yes, within footprint of new building	Remove
WOODLAND - Only the frontage of the woodland was surveyed, however where different species were noted to the north of the ditch/stream, these have been noted						
W1	To side of ditch to field boundary - remnant hedgerow forming edge to woodland including: Hawthorn Field maple Blackthorn Rose species Within woodland: Ash Oak White willow Grey willow Sycamore Holly Crab apple Wych elm	not recorded	A2, A3	see plan	No to north of proposed buildings	Retain and protect during construction
HEDGEROW						
H1	Hawthorn Field maple Blackthorn Rose species	not recorded			Yes, within footprint of new building and car park	Remove

Tree ref T - individual G - Group W - Woodland H - Hedgerow * - TPO	Species Latin name Common name	Stem dia. (mm) basal dia. (BD)	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radi s of RPA (m)	Affected by development	Proposed works
H2	Hawthorn Field maple Blackthorn mostly spreading from adjacent scrub Rose species	not recorded			No	Retain and protect during construction
H3	Hawthorn Blackthorn Rose species Goat willow Crab apple Field maple	not recorded			Yes, within footprint of new building and car park	Remove
H4	Hawthorn Field maple Blackthorn Rose species	not recorded			Yes, within footprint of car park	Remove
H5	Hawthorn Blackthorn Rose species	not recorded			Yes, within footprint of new building and car park	Remove
H6	Blackthorn Rose species Field maple	not recorded			Yes, within footprint of new building and car park	Remove
H7	Hawthorn Field maple Occasional: Hazel Rose species Oak - standard trees	not recorded			No	Retain and protect during construction
H8	Hawthorn Blackthorn Field maple Rose species	not recorded			No outside the construction area	No works
H9	Hawthorn Blackthorn Field maple Rose species	not recorded			No outside the construction area	No works
H10	Hawthorn Blackthorn Field maple Rose species	not recorded			No outside the construction area	No works
H11	Hawthorn Blackthorn Field maple Rose species	not recorded			No outside the construction area	No works

Table 3.0 Schedule of tree works by tree category

6 ARBORICULTURAL METHOD STATEMENT

6.1 General requirements

- 6.1.1 A copy of this document should be provided to the Project Manager and retained at the site office, with all relevant drawings included in the appendices clearly displayed on site notice boards. The method statement must be made freely available for inspection to contractors and sub-contractors. The document shall be introduced to all new contractors as part of the general site induction.
- 6.1.2 An Arboricultural Consultant should be appointed to inspect the tree works and protection measures to ensure compliance with this method statement in accordance with the draft Arboricultural Inspection Proforma in Appendix 5 and reporting procedures. Timing of inspections should generally be every 6-8 weeks, timed to coincide with planned work stages and include ad-hoc inspections.
- 6.1.3 All proposed tree works should be carried out by a suitably qualified, competent and insured contractor, preferably an Arboricultural Association approved contractor. Tree work should be undertaken in accordance with BS 3998:2010 – “Tree Work - Recommendations” and current issued FISA Safety Guides (Forestry Industry Safety Accord). No tree works shall be undertaken by construction personnel.
- 6.1.4 All tree works to be carried out shall comply with all appropriate legislation, including planning application decision notices and conditions, felling licences, statutory Tree Preservation Order and Conservation Area constraints and requirements. This includes The Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000 which provides statutory protection to protected species and birds. All tree work operations are covered by these provisions and advice from an ecologist should be obtained before undertaking any works that might constitute an offence.
- 6.1.5 The proposed tree works are shown on: Arboricultural Method Statement Sheet Plan 274/T/300 and Tree Works Plans 301-318.
- 6.1.6 All proposed tree pruning and tree removal, shall be undertaken in accordance with the approved schedule and plans appended within this report and in consultation with the Arboricultural Consultant and Ecologist. No works are to be undertaken on trees that are shown to be retained and protected without prior consultation with the Arboricultural Consultant and Ecologist.
- 6.1.7 Trees to be removed shall be spray painted in accordance with the drawings and accompanying schedule.

- 6.1.8 The Site Manager shall be responsible for daily compliance with this method statement and shall contact the Arboricultural Consultant as required for general queries, ad-hoc inspections and unexpected occurrences affecting trees during the course of the works, such as encountering large roots over 25mm diameter or if additional pruning is required.
- 6.1.9 The tree works and subsequent installation of protection must be carried out prior to the commencement of construction, ground preparation works, establishment of site compounds, delivery of construction plant and materials or other investigation works.
- 6.1.10 No tree removal or pruning works other than those identified in this method statement, are to be carried out as further permissions from Wrexham County Borough Council may be required and ecological constraints may be present.
- 6.1.11 All tree works should be undertaken outside of the nesting bird season which is between 1st March to 1st September, however it should be noted, that should warm weather be prevalent at the end of February, it is possible that bird nesting activity may start early.
- 6.1.12 If any tree works are to take place between March and August, a suitably qualified Ecologist should check the tree works area a maximum of 24 hours before any works commence. Should any nesting birds be found, or suspected to be present, advice should be sought from the Ecologist before proceeding.
- 6.1.13 If nesting birds are found, the tree should be marked with tape or spray paint to prevent the tree from being removed until the young have fledged the nest. The drawing displayed in the site office and showing the relevant tree should be marked to identify the presence of a birds nest and the date noted. This will allow forward planning for reinspection and removal once the young have fledged the nest.
- 6.1.14 Any invasive non-native species (INNS) that are found to be present at the site and within the working area should be marked on site and the Site Manager and Ecologist notified as soon as possible, as an INNS management plan may be required.



7 ARBORICULTURAL METHOD STATEMENT WORKS TO EXISTING TREES

7.1 Tree works

- 7.1.1 A second phase of tree works may be required, following the initial tree removal at the site. An Arboricultural Consultant should be appointed to review the condition of trees along new edges to existing groups, to assess whether remedial or formative pruning of trees is required.
- 7.1.2 It must be noted that remedial and formative pruning following initial tree removal is not included within this method statement as the need for works cannot be ascertained until this work has been completed and additional permissions from Wrexham County Borough Council may be required.
- 7.1.3 All operations must be carried out to avoid damaging neighbouring retained trees. Trees to be retained must not be used for anchorage or winching purposes.
- 7.1.4 Any pruning to facilitate access must ensure there is no significant adverse impact on tree physiology or amenity value. A suitable working area may be created by temporarily tying back tree branches to avoid excessive pruning. The visual appearance, health and stability of a tree must be considered when undertaking pruning works and remedial pruning may be required as part of the tree works.
- 7.1.5 All trees that have been approved for removal shall be cut down to a low stump. Those that are in close proximity to trees to be retained shall either have their stumps ground out or left in situ. The stumps of felled trees not in close proximity to retained trees can be fully grubbed out. Access for stump removal must be gained from within the designated construction working area, not through the woodland or groups to avoid damaging the RPA of trees to be retained.
- 7.1.6 All arising timber shall be stacked to form habitat piles in clearings in the CEZ, it should not be stacked below the canopy of trees to be retained and not within the construction working area.
- 7.1.7 Removal of ivy growth is not included in these works, but may be a requirement for a second phase of pruning where there is a need for more detailed inspection of a tree, or where there is concern that the extent of ivy may create a windsail effect with regard to tree stability. Ivy growth can create valuable habitat for insects, invertebrates, birds and bats and therefore where this is considered of wildlife benefit, it will be retained.
- 7.1.8 Trees in category U that are dead or in decline may be retained as standing dead wood where there is no public access and no target area. Where there is existing public access, or where new access is planned, in the vicinity of category U trees, it is proposed that these trees are either reduced to 4m in height as standing dead wood, or removed completely.
- 7.1.9 Tree protection fencing shall be installed following completion of the tree works and prior to any other construction or clearance works taking place.

- 7.1.10 All tree work should be undertaken with due regard to ecological constraints and any mitigation requirements.

7.2 Tree and root protection

- 7.2.1 Following completion of the tree works, and subsequent inspection and sign off by the Arboricultural Consultant, the Site Manager will arrange installation of the temporary tree protection.
- 7.2.2 Tree protection fencing in accordance with BS5837:2012 (See Appendix 2 for details) or other suitable robust and immovable fence to minimum 1.5m in height to be approved by the Arboricultural Consultant and Wrexham County Borough Council Tree Officer, shall be erected prior to the commencement of any of the following activities:
- Soil stripping;
 - Delivery of any plant or materials;
 - Demolition and site clearance;
 - Commencement of construction works;
 - Installation of any utilities;
 - Soiling / ground reinstatement; and
 - Landscape works.
- 7.2.3 The protective fencing shall be erected to the alignment as shown on the Tree Work Plans 274/T/301-318.
- 7.2.4 Weather proof tree protection fence signs (See Appendix 3) shall be attached to the fencing at 10m intervals and positioned at eye level. These signs must be replaced if they are removed or become illegible.
- 7.2.5 Once erected these fenced areas should be respected and after installation, barriers and ground protection should not be removed or altered without prior recommendation by the Arboricultural Consultant and must remain in place until completion of all construction works on site.
- 7.2.6 No works are proposed within the CEZ once the fence and ground protection measures are installed. The CEZ must not be altered and the following restrictions shall apply:
- No change in ground level, reprofiling or mechanical excavations;
 - No excavations by other means without the advice and agreement of the Arboricultural Consultant;
 - No removal of grass areas by mechanical means;
 - No storage of plant or materials;
 - No storage or handling of any chemicals, fuels, wash out areas; and
 - No vehicular access.

- 7.2.7 Where the Root Protection Areas (RPA) for retained trees extends beyond the tree protection fencing, temporary ground protection shall be installed in accordance with BS5837:2012. Such ground protection must ensure that there is no soil compaction and root growth is uninhibited. The ground protection shall consist of the following as relevant to the proposed site layout and construction requirements:

7.3 Topsoil storage

- 7.3.1 Topsoil storage within the RPA of existing trees to be retained should be avoided.

7.4 Temporary pedestrian access during construction

- 7.4.1 Single thickness non-slip boards on a 100mm compression-resistant layer of woodchip, over a robust geo/textile membrane; or, geotextile laid over existing ground with 100mm depth clean inert hardcore; or, non-slip boards laid on a purpose formed scaffold frame, creating a suspended walkway. Alternative proposals may be submitted to the Arboricultural Consultant.

7.5 Vehicular access

- 7.5.1 Where vehicular construction access is required within the RPA of trees to be retained, an above ground protection system should be provided. This should be installed to accommodate the potential loading within the RPA (e.g. proprietary systems as shown in Appendix 4) and be designed to an engineering specification in conjunction with arboricultural advice.
- 7.5.2 On completion of construction and reinstatement works the above ground protection systems should be removed only with the approval of the Arboricultural Consultant. Surface de-compaction and root zone enhancement measures may be required and can then be undertaken.

7.6 Additional precautions outside the CEZ

- 7.6.1 Care should be taken when planning site operations to ensure that all types of machinery can operate without encountering retained trees. Such contact can result in significant damage and compromise safe retention of the tree. It is recommended that a banksman is employed to ensure adequate clearance from trees is always maintained. Where this is not possible, access facilitation pruning in consultation with the Arboricultural Consultant may be required. No signs, apparatus or any other services shall be attached to any part of a retained tree.

7.7 Site compounds, cabins, storage of materials and spoil

- 7.7.1 Temporary site compounds, including portable welfare facilities and temporary service connections, are to be positioned clear of the RPA of retained trees. The site poster 'Common causes of tree death' (see Appendix 6) shall be posted in the site cabin(s).
- 7.7.2 The delivery, storage, mixing and discharge of concrete and all other cement based materials shall be carried out away from retained trees, so that there is no risk of runoff and spillage in the RPA. No substances that are potentially injurious to trees (including fuels, building materials and other phyto-toxic materials) shall be stored or used in the vicinity of retained trees where there is a risk of injurious contact. Emergency spillage kits must be available to minimise the impacts of any accidental spillages to the local environment.
- 7.7.3 No materials shall be stored within the RPA of retained trees. Spoil from any site activity shall be removed or if to be retained for reuse, stored or piled outside the CEZ.

7.8 Installation of services and excavation within the RPA

- 7.8.1 Underground services should be routed outside the RPA of all retained trees to avoid risk of roots being severed during excavation. Mechanical trenching can also affect local soil hydrology. Common ducts should be used to minimise disturbance and segregated from the RPA.
- 7.8.2 Where new services are to pass within the RPA, the service plans should be developed with input from the Arboricultural Consultant. Trenchless insertion methods should be used where possible, with the entry and exit pits situated outside the RPA.
- 7.8.3 Where this is not possible the NJUG 10 Guidelines for the Planning, Installation and Maintenance of Utility Services in Proximity to Trees should be adopted. Hand excavation may be acceptable for shallow service runs, where they can be undertaken with the supervision of the Arboricultural Consultant and where roots can be retained and suitably protected. Where possible an air spade or air lance should be used to loosen the soil and removed using a vacuum excavator. Soils should be stored and retained on site for reinstatement on completion of the works. This may also involve wrapping or covering exposed roots to prevent desiccation and the effects of rapid temperature change. All wrappings must be removed prior to backfilling.
- 7.8.4 Prior to backfilling of soils the installation of a root protection barrier may be required to ensure there are no long-term effects of root growth on buried assets. Backfilling to trenches should ensure that subsoils are replaced first in 300mm layers and soils consolidated but not compacted. The final 300mm of soil backfill to ground level should be topsoil excavated from the trench or a 50/50 mix by volume of as dug topsoil and proprietary tree and shrub compost with organic matter content to replicate the upper soil profile. Injection of soils with mycorrhizal inoculant may also be considered where fibrous roots have been lost due to excavation.

7.9 Demolition and new surfacing within the CEZ

- 7.9.1 Demolition of existing structures in close proximity to retained trees should be carried out under the supervision of the Arboricultural Consultant with works planned to avoid deposition of material within the CEZ and to avoid damage to retained trees. Mechanical plant access within the CEZ should be avoided. Temporary pedestrian access shall be allowed within the CEZ to carry out these operations. A temporary breach in the fencing shall be created to facilitate pedestrian access only.
- 7.9.2 Removal of the existing hard surfacing adjacent to the RPA should be undertaken first, working away from the retained tree to allow any exposed roots to be appropriately covered and protected as work proceeds. Debris within the RPA should be removed by hand and transported clear of the protective fencing using wheelbarrows.
- 7.9.3 Where roots are encountered during the course of the works, they shall be retained and carefully worked around, wherever practicable. No root greater than 25mm dia. shall be cut without advice from the Arboricultural Consultant. If damage does occur to a root greater than 25mm diameter, then advice must be sought from the Arboricultural Consultant. Where it is essential to sever roots, they shall be cleanly cut, using an appropriate, sharp clean bladed hand tool. Roots that are to be retained shall be covered with hessian, or similar, to protect from desiccation. Prior to backfilling, any hessian wrapping should be removed and retained roots should be surrounded with sharp sand, or other loose granular fill before soil or other material is replaced.
- 7.9.4 To minimise risk of damage to tree roots to be retained, an air spade or vacuum excavator may be used to loosen and remove soils, in order to identify the location of roots adjacent to a planned excavation. Roots may then be pruned as previously described.

7.10 Reinstatement and soft landscaping within the CEZ

- 7.10.1 Reinstatement and soft landscape works, excavation and ground preparation within the CEZ shall be carried out using hand tools to minimise risk of damage to roots. Mechanical cultivation and rotovation shall be avoided.
- 7.10.2 Chemical application for treatment of woody plant matter shall be minimised. Where used, all instructions, warnings and other relevant information from manufacturers should be strictly observed and followed. Care must be taken to avoid damage to adjacent vegetation and trees to be retained.
- 7.10.3 During reinstatement, there must be no unplanned changes in ground levels within the RPA and works should only be carried out when ground conditions are suitable to avoid risk of compaction. Final grading to marry in new levels with existing ground with imported soils shall be carried out by hand tools only. Cultivations for seeding shall also be by hand.

7.10.4 All new tree planting should be undertaken in accordance with *BS8545:2014 Trees: from nursery to independence in the landscape - Recommendations*. Planting pits for hedgerows, shrubs or trees within the RPA of existing retained trees, must be hand excavated. If substantial roots are encountered, the planting pit should be relocated if possible.

7.10.5 Plants and materials for the landscape works should be transported in wheelbarrows and must be moved across existing hard surfacing where possible, or via temporary ground protection minimise risk of compaction.

7.11 Construction of new footpaths within the CEZ

7.11.1 The construction of any new footpaths and vehicle access within the CEZ or potentially affecting RPA of retained trees must be installed using a 'no dig' construction method using a 3D cellular confinement system such as Cellweb, in accordance with the Manufacturer's recommendations.

7.11.2 The process for installation generally involves:

- Remove all existing vegetation from the surface using hand tools only. Arisings should be removed from the RPA using wheelbarrows only. No further excavations in this area are to take place. Any voids or depressions within the ground surface are to be made good using sharp sand (not builder's sand) to maintain levels.
- Position kerb edges where there is no conflict with tree roots with minimal haunching, or Install a metal edging to the full depth of proposed surfacing.
- Install geotextile to the ground surface and lay 3D cellular confinement mat (e.g. Cellweb) to the recommended thickness for the proposed access use on top of this membrane. Expand the mat to its full length and trim to the desired length and width. Carefully peg down the matting with proprietary staking pins to keep the cells open. Fill all the cells with a 20-40mm no fines angular granular stone working from the area furthest from the tree first. Continue filling all the cells using the previously filled cells as a working platform.
- The finished surface of the access area may be the gravel surface or laid as required with block paving or similar to manufacturers recommendations.

7.11.3 Topsoil can be laid to the footpath edges and graded from the top of the kerb edge or installed edge restraints to the existing ground level to avoid creating trip hazards.

7.12 Arboricultural watching brief and supervision of excavations

- 7.12.1 The Site Manager shall inform the Arboricultural Consultant as soon as possible of the need to undertake excavation works within the RPA of existing trees and programme in an arboricultural watching brief. All watching briefs must be performed by an Arboricultural Consultant.
- 7.12.2 An arboricultural watching brief is required to ensure the pruning of roots is kept to within acceptable limits and to supervise the reinstatement of soils. Where possible, root pruning should be carried out at the same time as the installation of the temporary fencing to ensure the fence is in position immediately after the root pruning and reinstatement of soils has been completed.
- 7.12.3 The root pruning work should be undertaken in dry conditions, ideally whilst the ground is moist.
- 7.12.4 The Arboricultural Consultant will make a photographic record of the works for inspection by the local authority and the completion of the watching brief must be verified by the Arboricultural Consultant.

8 MITIGATION PLANTING & LANDSCAPING

8.1 Mitigation

- 8.1.1 Replacement tree planting is proposed to mitigate for the removed trees and hedgerows, and to replace amenity or biodiversity value that may be lost because of the tree removal. There are opportunities on site to improve the composition and quality of existing tree groups and therefore enhance screening, biodiversity and visual amenity.
- 8.1.2 Native trees and shrubs appropriate to the area are to be planted within the new landscape and ecology zone, refer to drawings WRE2205_PP01.00_P3_Planting Plan and Schedule and detailed planting plans sheets 1 to 19.
- 8.1.3 Planting works would be undertaken between November to March.

9 INSPECTIONS

9.1 Prior to commencement of construction

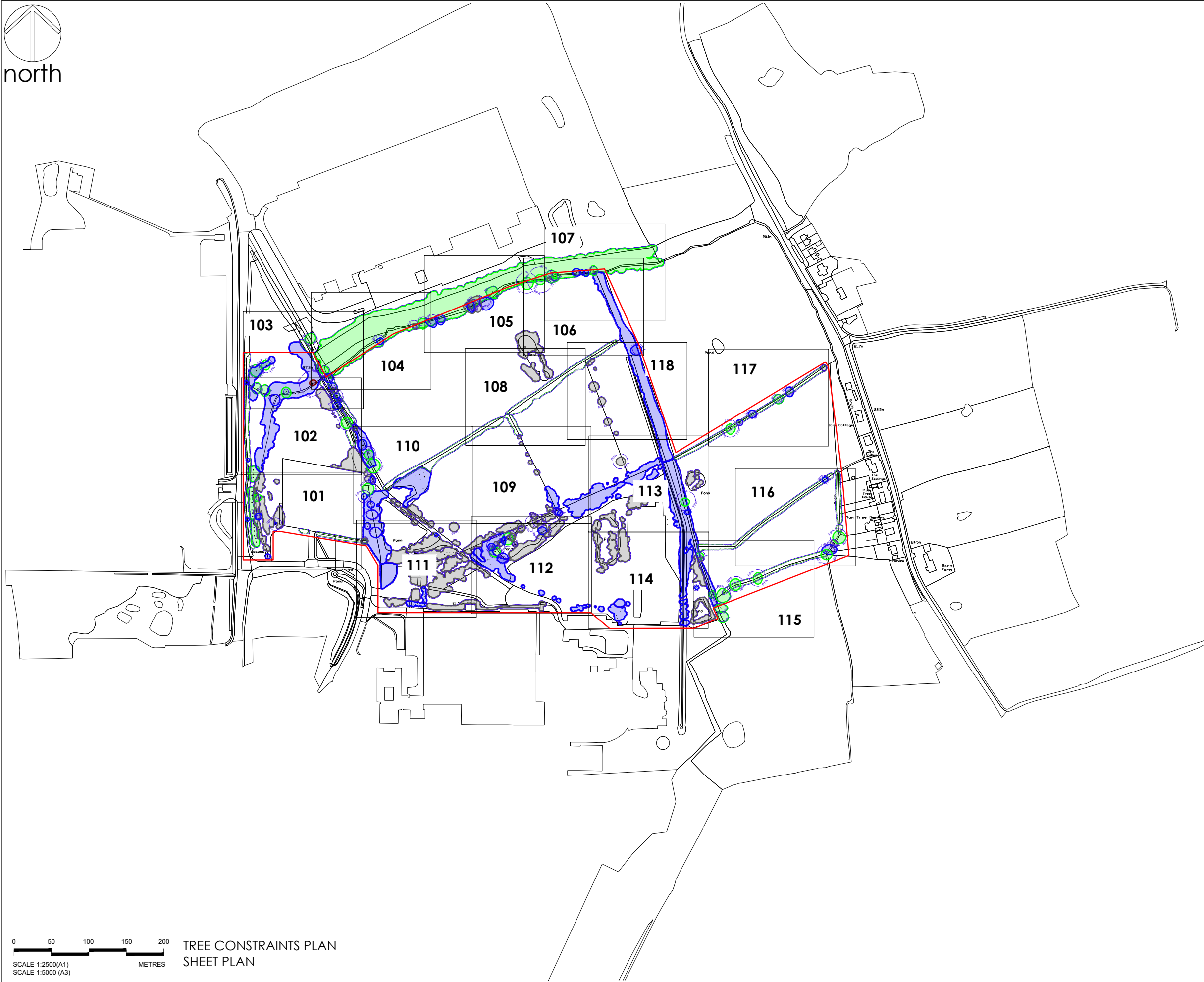
- 9.1.1 Once the protective fencing and ground protection measures have been installed but prior to the commencement of the development a site inspection should be undertaken by the Arboricultural Consultant. This is to confirm that all protection measures have been installed in accordance with the Tree Works Plans and the method statement.
- 9.1.2 Checks of the tree fence and ground protection should be carried out by the contractor at regular intervals during the development to ensure trees remain adequately protected.
- 9.1.3 On completion of the development a general survey of the trees by the Arboricultural Consultant is recommended to identify any remedial action necessary as a result of the works. Note that permission for any additional tree works not included in the original development consent may need to be obtained through application to the LPA/Wrexham County Borough Council.
- 9.1.4 If any arboricultural issues arise during the development then the site manager should immediately contact the Arboricultural Consultant for advice on how to proceed.

9.2 Reinspection

- 9.2.1 It is recommended that trees are inspected every two years, particularly after storms or other extreme weather events, to identify potential new hazards or changes to known defects. Annual inspections have been recommended for specific trees where fungal fruiting bodies or defects are known to be present. Inspections of all retained trees should be undertaken by a qualified Arboriculturist/Arboricultural Consultant and records of inspection held at the site or with the landowner.
- 9.2.2 Hazard recommendations are based on observations at the time of survey. Trees are dynamic living organisms whose structure is constantly changing. Even those in good condition can suffer from damage or stress. Following site development, regular (annual or biennial) inspections of all retained trees should be undertaken by a qualified Arboricultural Consultant.

10 FIGURES

- Tree Constraints Plans 274/T/100-118 and Tree Constraints Report 274/R/100;
- Arboricultural Impact Assessment Sheet Plan 274/T/200 and detail plans 201-218;
- Arboricultural Method Statement Sheet Plan 274/T/300 and Tree Works Plans (detail plans) 301-318;
- WRE2205_PP01.00_P3_Planting Plan and Schedule; and
- 1204-02-001 Proposed 3 Unit Site Plan-Rev P3.



Notes

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2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan
not to scale



TREE CONSTRAINTS PLAN
SHEET PLAN

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
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274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

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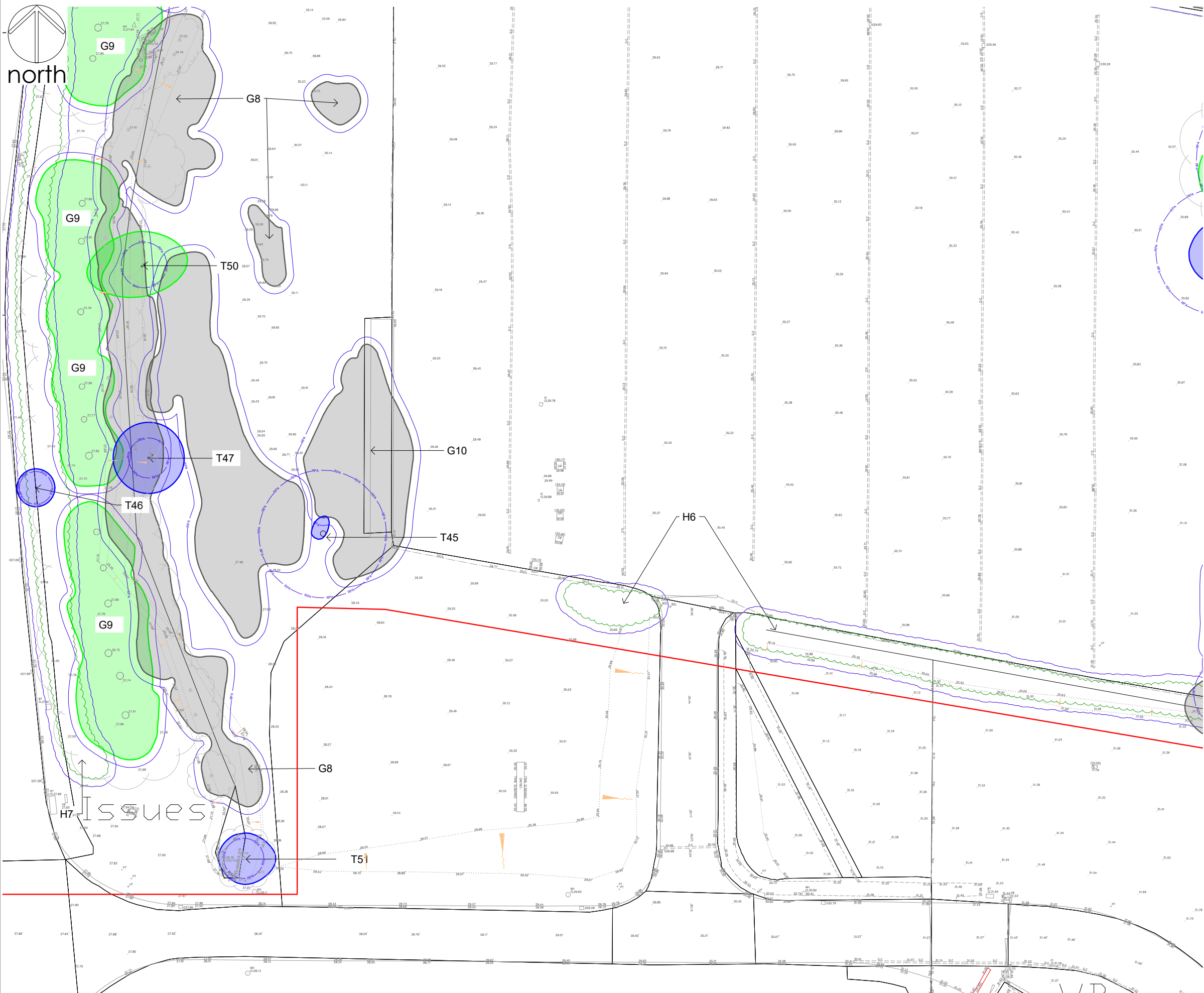
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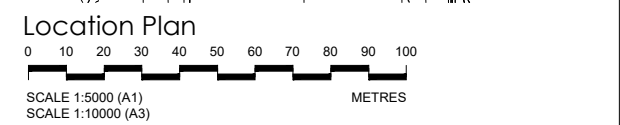
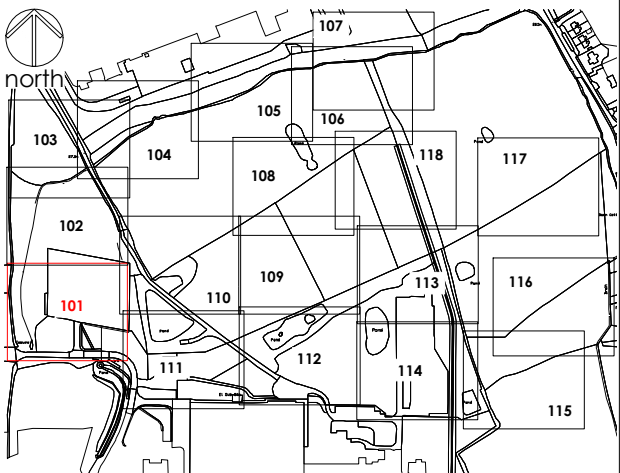
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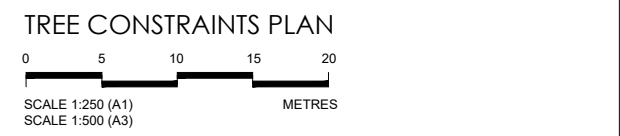
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- ### Notes
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 3. Drawing must be reproduced in colour.



- ### Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
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 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS



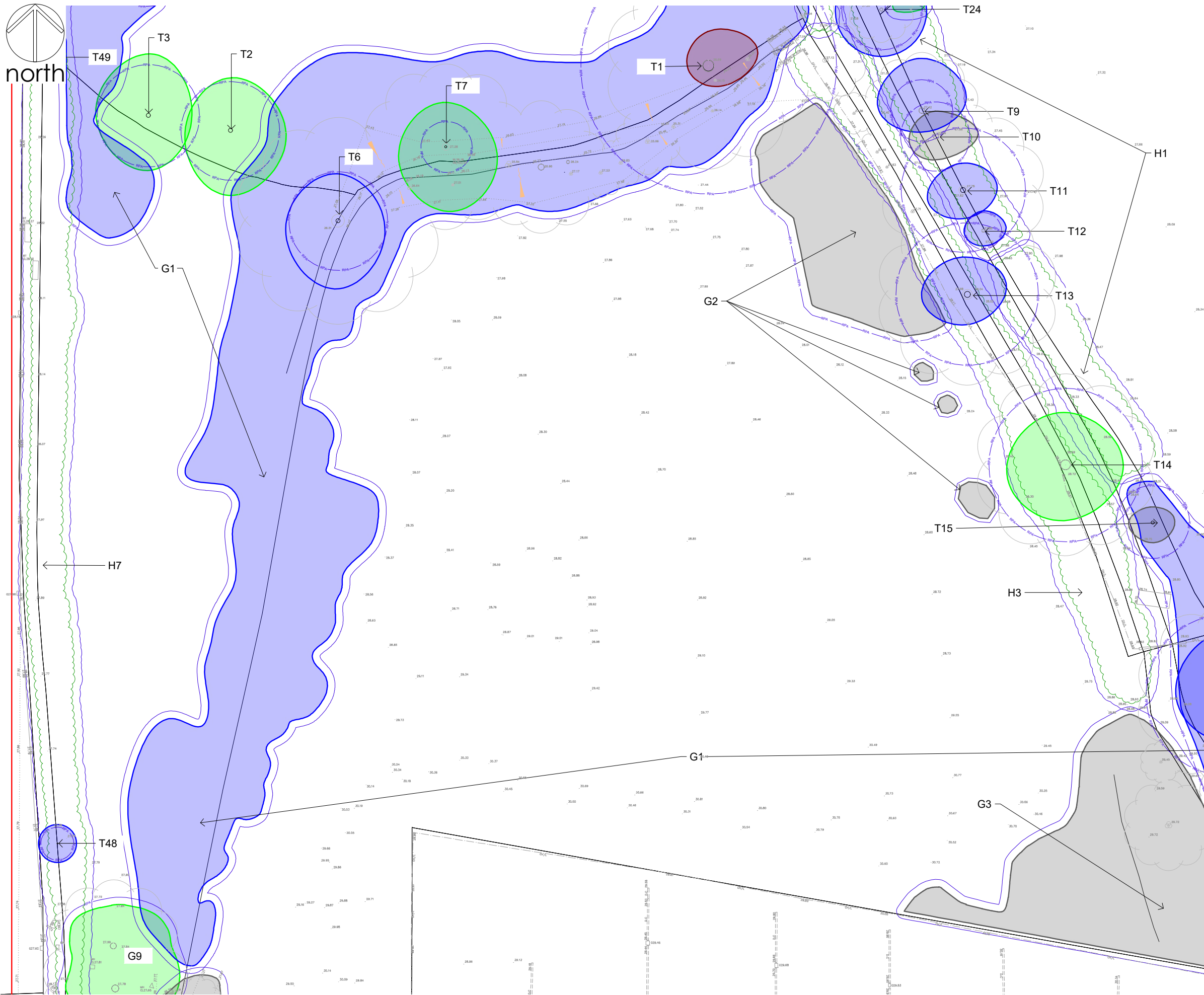
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274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
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Title	TREE CONSTRAINTS PLAN SHEET 1 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date	03/05/2023				

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Location Plan

0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Legend

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TREE CONSTRAINTS PLAN

0 5 10 15 20 METRES

SCALE 1:250 (A1)
SCALE 1:500 (A3)

Drawing references	
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274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

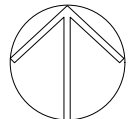
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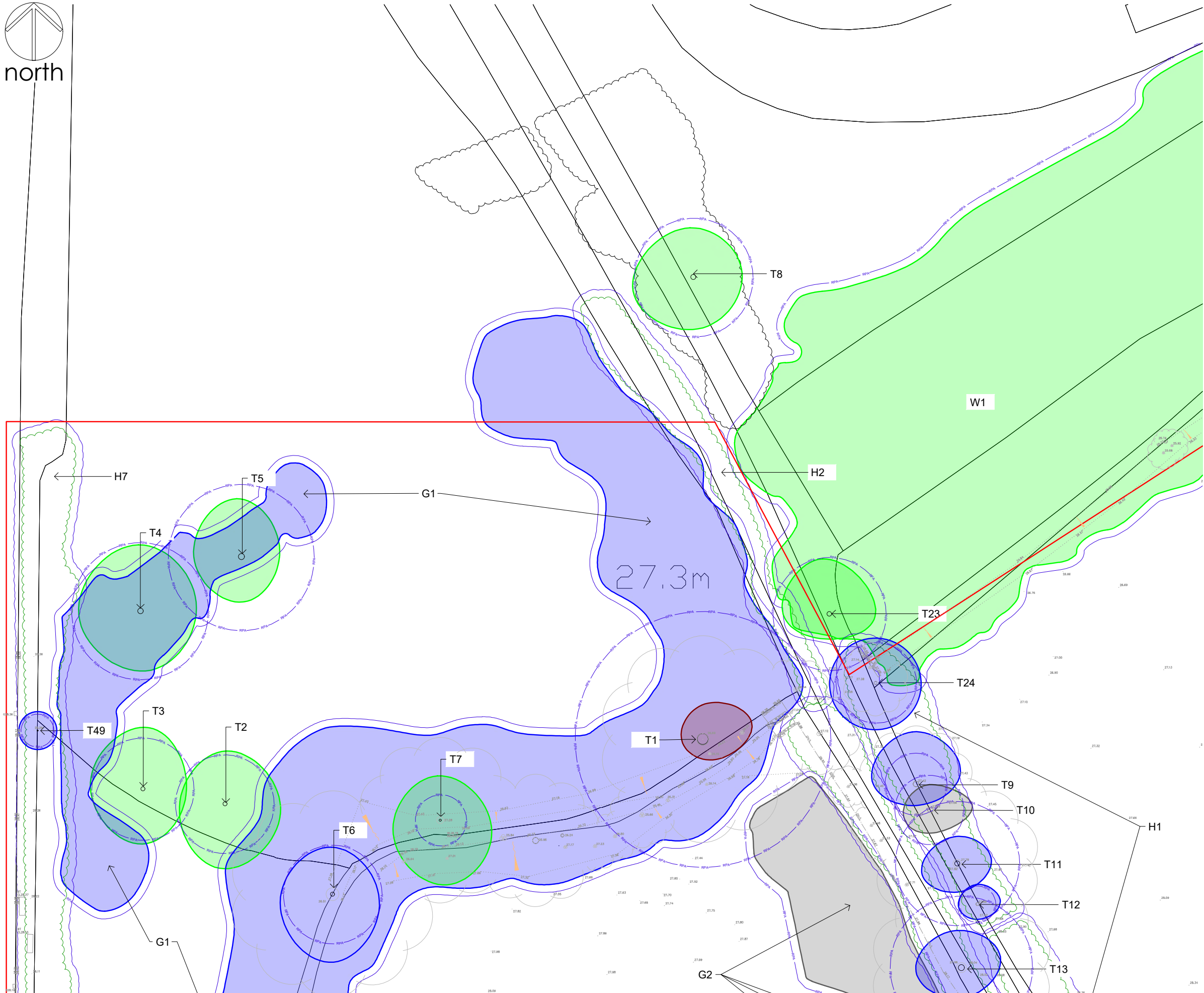
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Title	TREE CONSTRAINTS PLAN SHEET 2 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date	03/05/2023				

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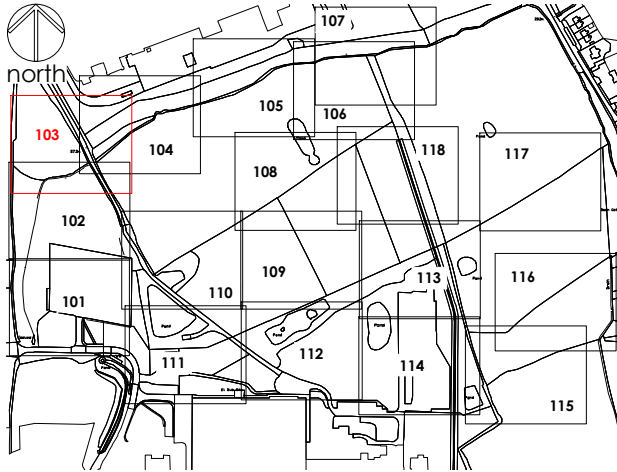


north



Notes

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Location Plan

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SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Legend

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TREE CONSTRAINTS PLAN

0 5 10 15 20

SCALE 1:250 (A1)
SCALE 1:500 (A3)

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Dwg No
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Title TREE CONSTRAINTS PLAN
SHEET 3 OF 18

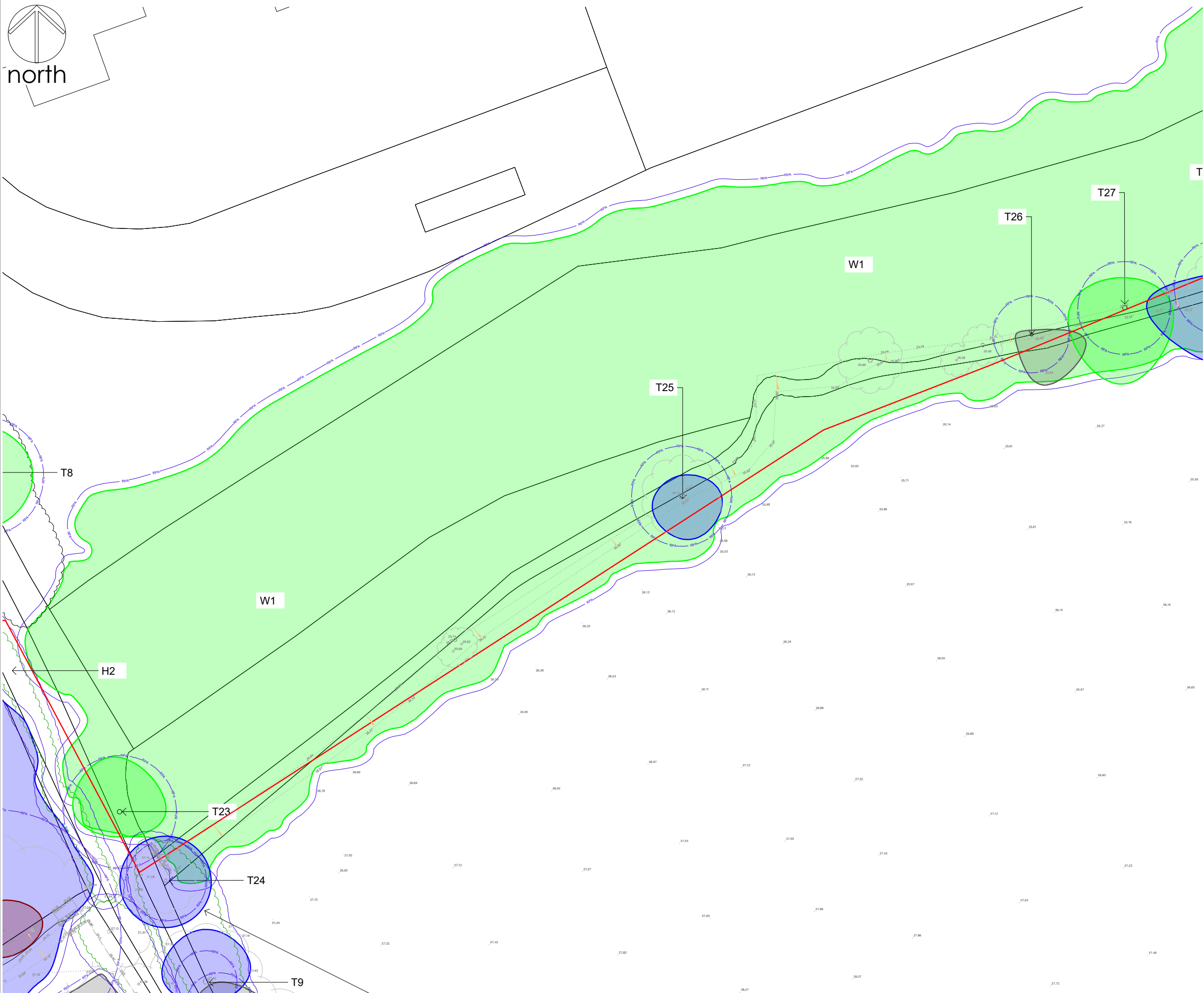
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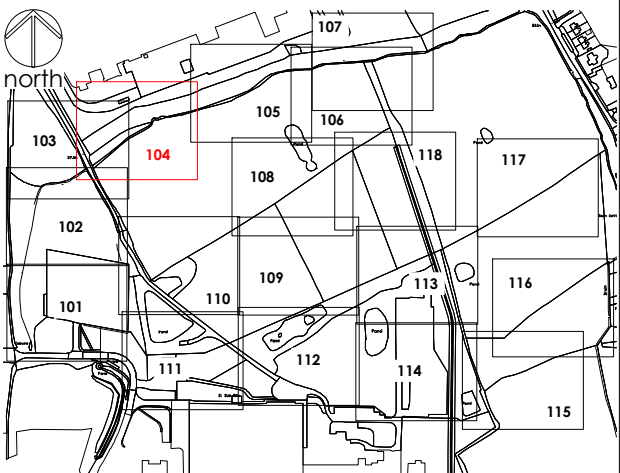
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Location Plan
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METRES
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Legend

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TREE CONSTRAINTS PLAN

0 5 10 15 20
METRES
SCALE 1:250 (A1)
SCALE 1:500 (A3)

Drawing references	
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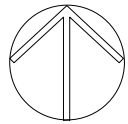
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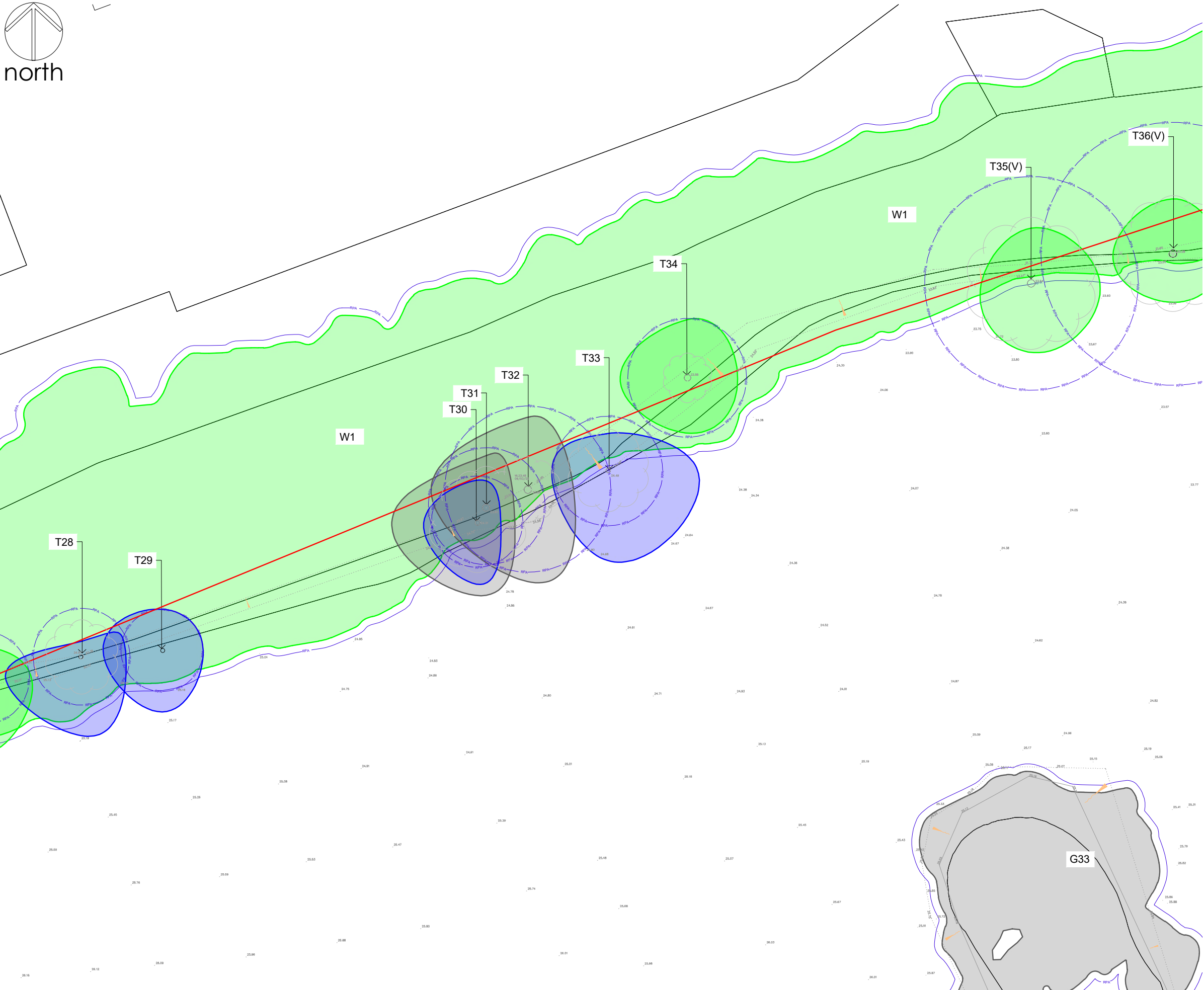
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Title	TREE CONSTRAINTS PLAN SHEET 4 OF 18	Scale	1:250 @ A1 / 1:500 @ A3		03/05/2023	FOR INFORMATION	MD		MD

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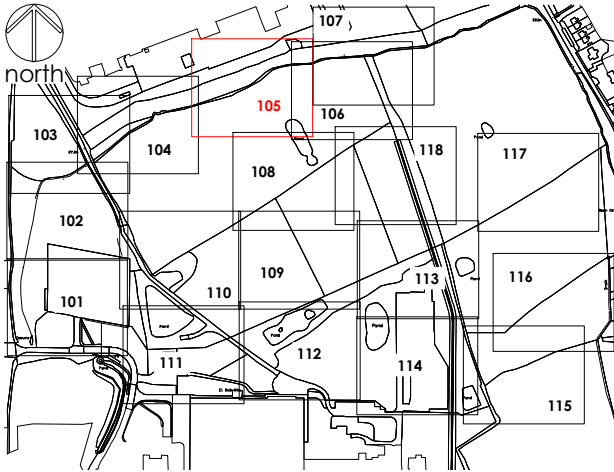


north



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Location Plan

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TREE CONSTRAINTS PLAN

0 5 10 15 20

SCALE 1:250 (A1)

SCALE 1:500 (A3)

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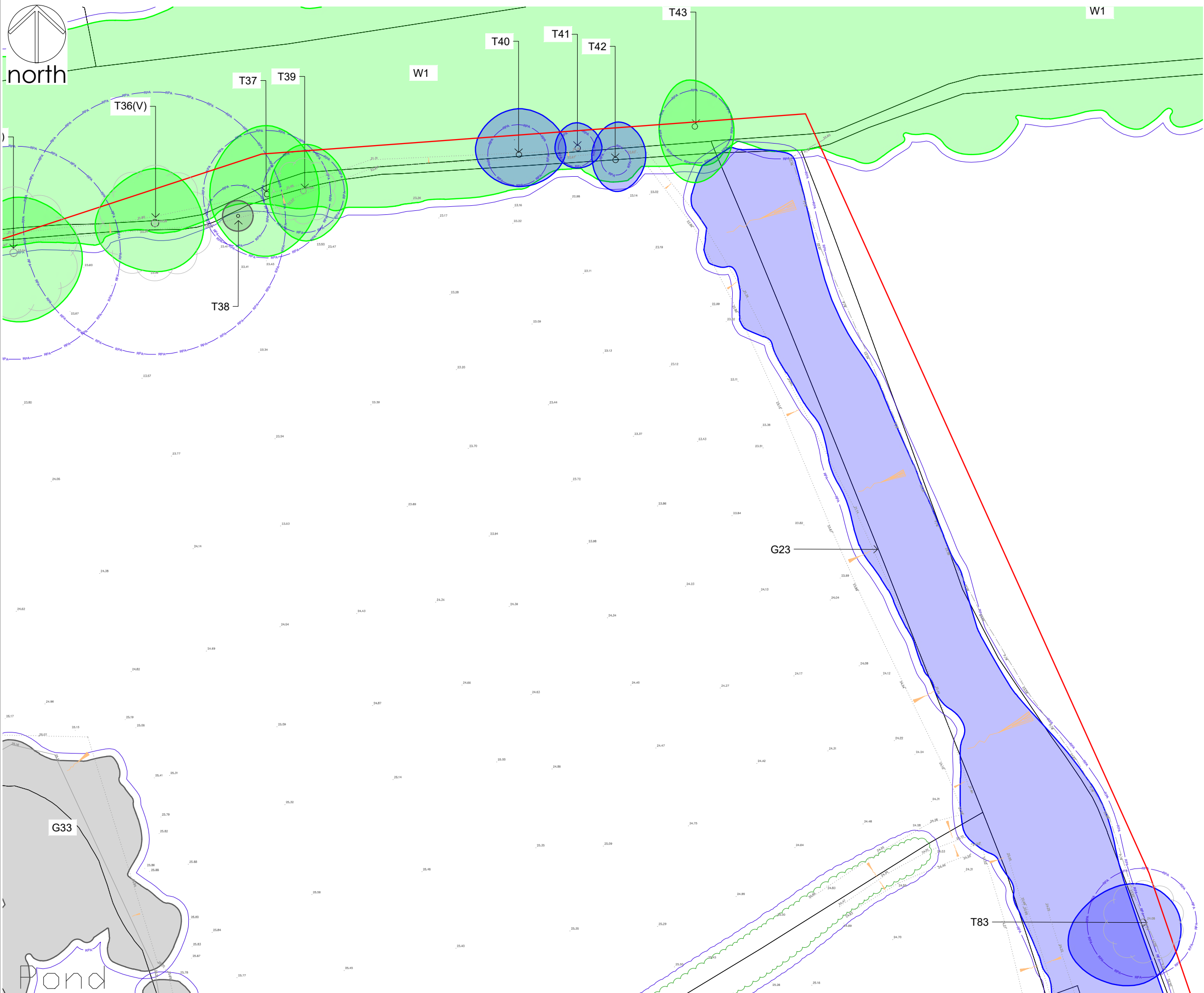
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Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

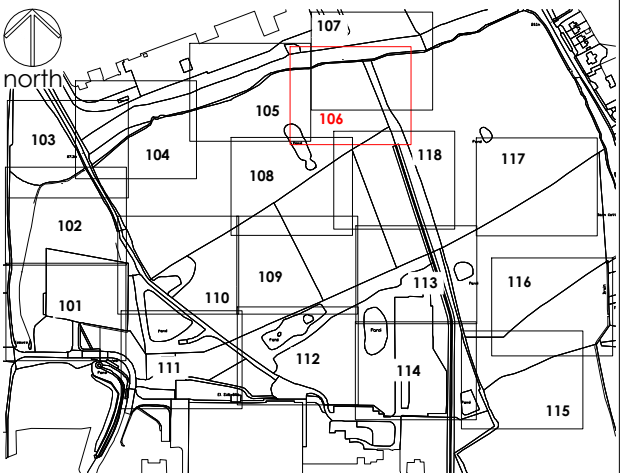


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Cheshire | WA16 6LZ | 07710 498231





- ### Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Location Plan
0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group
- CATEGORY B - moderate quality tree / woodland / group
- CATEGORY C - low quality tree / woodland / group
- CATEGORY U - unsuitable for retention
- HEDGE - CANOPY EXTENTS
- ROOT PROTECTION AREA (RPA)
- REFERENCE - tree, group, woodland
- POTENTIAL VETERAN TREE
- NOT SURVEYED
- TREE AS PLOTTED ON TOPO SURVEY
- SURVEY EXTENTS

TREE CONSTRAINTS PLAN
0 5 10 15 20
SCALE 1:250 (A1)
SCALE 1:500 (A3)
METRES

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

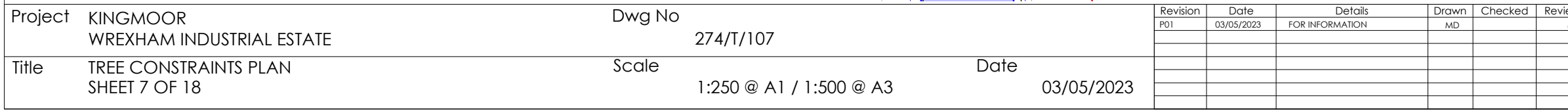
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Project KINGMOOR WREXHAM INDUSTRIAL ESTATE		Dwg No 274/T/106		Revision P01	Date 03/05/2023	Details FOR INFORMATION	Drawn MD	Checked	Reviewed MD
Title TREE CONSTRAINTS PLAN SHEET 6 OF 18		Scale 1:250 @ A1 / 1:500 @ A3		Date 03/05/2023					

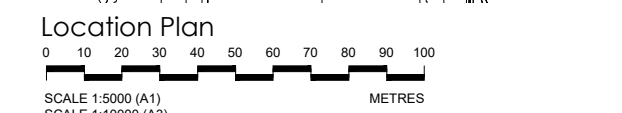
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6 Kinderton Close | High Legh | Knutsford
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north



1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

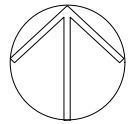
- SCALE 1:250 (A1)
SCALE 1:500 (A3)

OS LICENCE

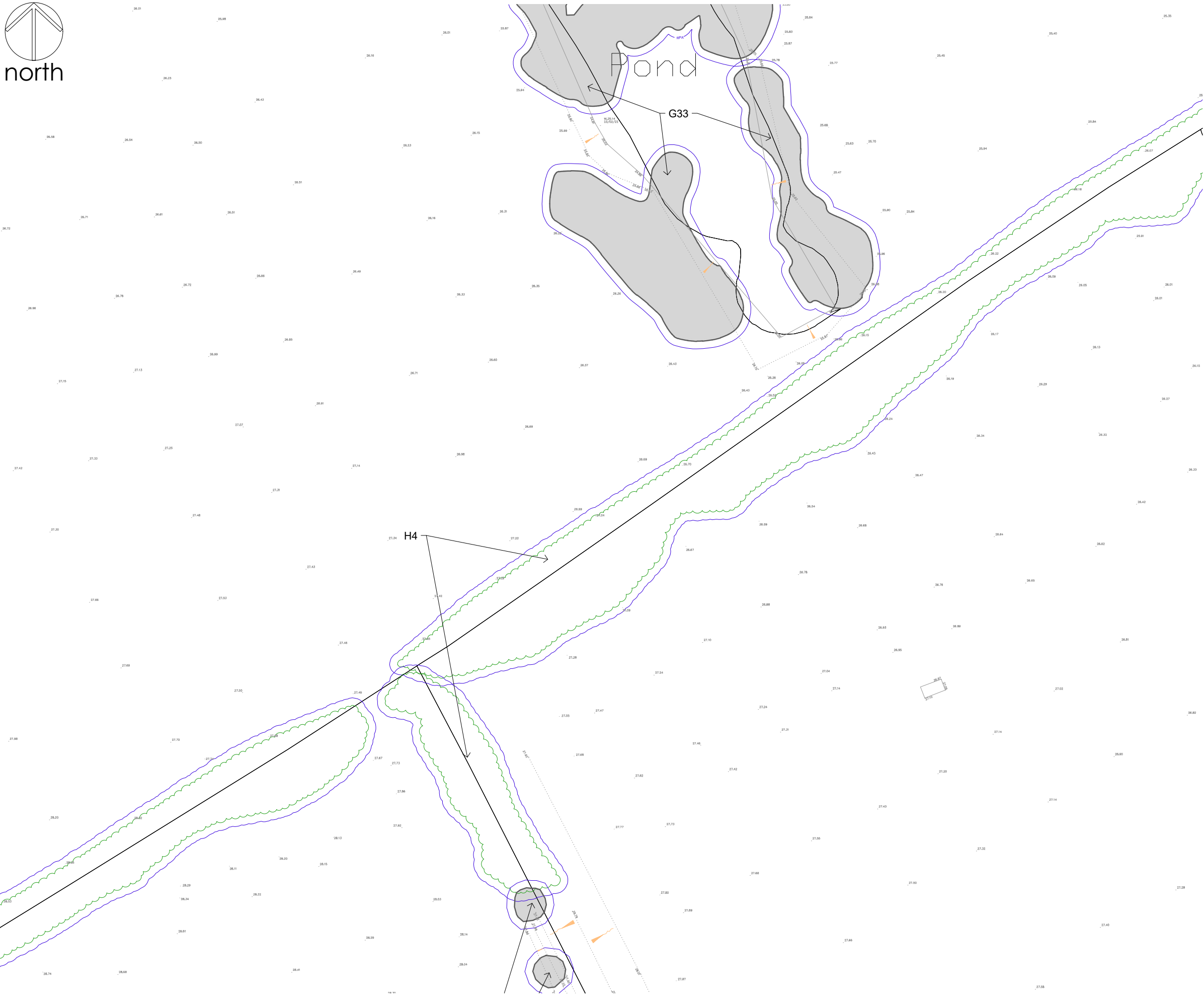
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Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



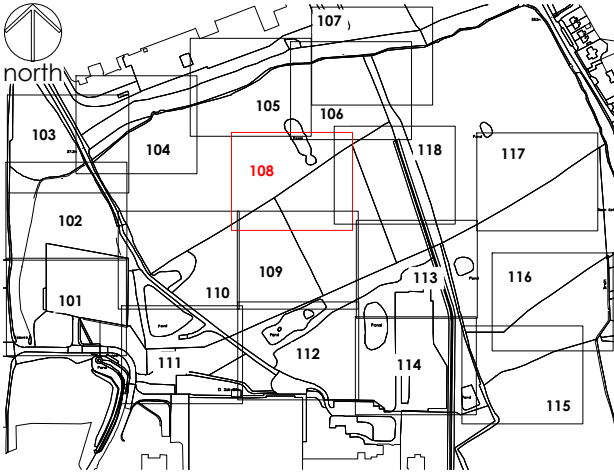


north



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group
- CATEGORY B - moderate quality tree / woodland / group
- CATEGORY C - low quality tree / woodland / group
- CATEGORY U - unsuitable for retention
- HEDGE - CANOPY EXTENTS
- ROOT PROTECTION AREA (RPA)
- REFERENCE - tree, group, woodland
- POTENTIAL VETERAN TREE
- NOT SURVEYED
- TREE AS PLOTTED ON TOPO SURVEY
- SURVEY EXTENTS

TREE CONSTRAINTS PLAN

0 5 10 15 20

SCALE 1:250 (A1)
SCALE 1:500 (A3)

METRES

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/108

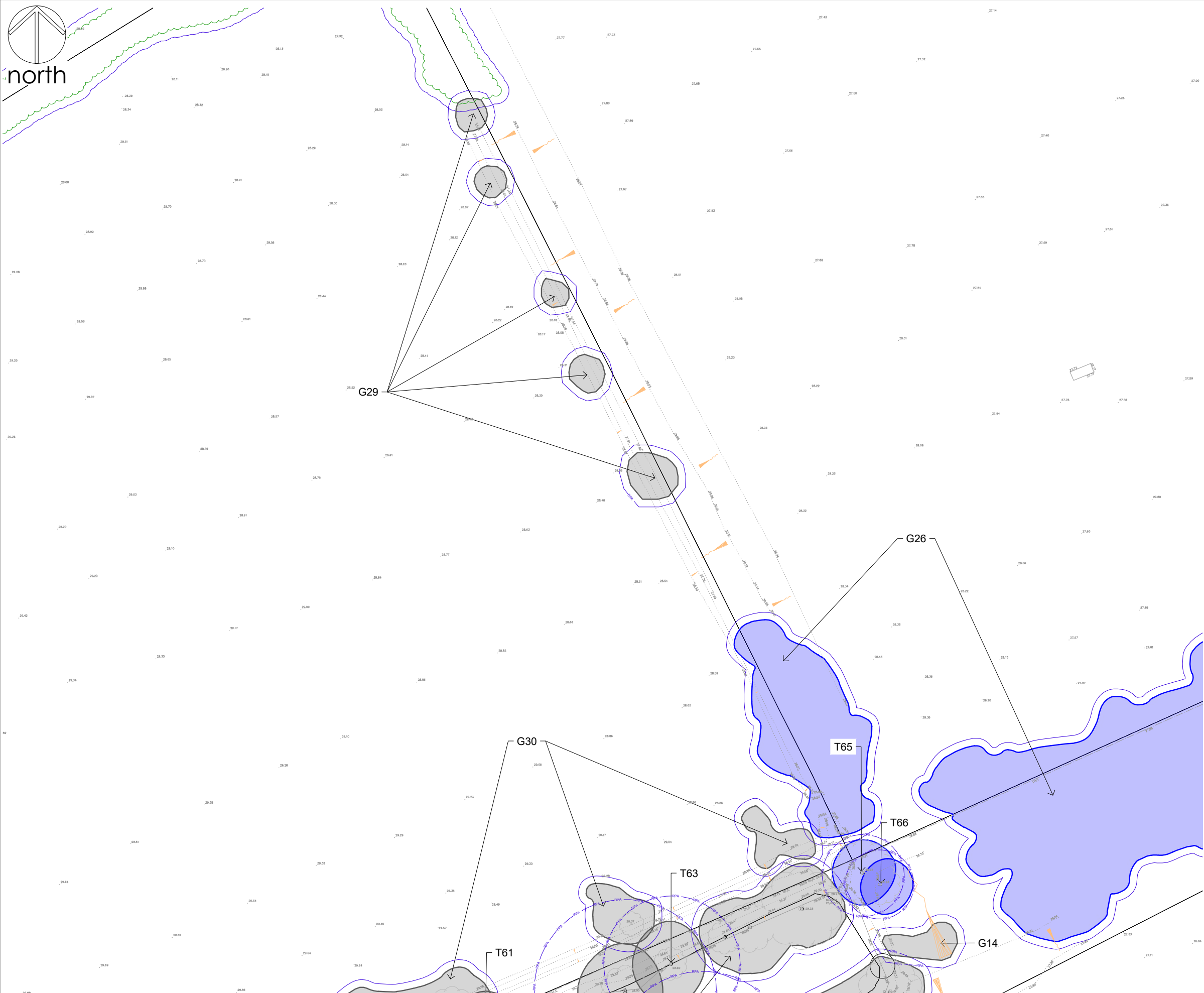
Title TREE CONSTRAINTS PLAN
SHEET 8 OF 18

Scale
1:250 @ A1 / 1:500 @ A3

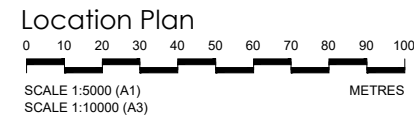
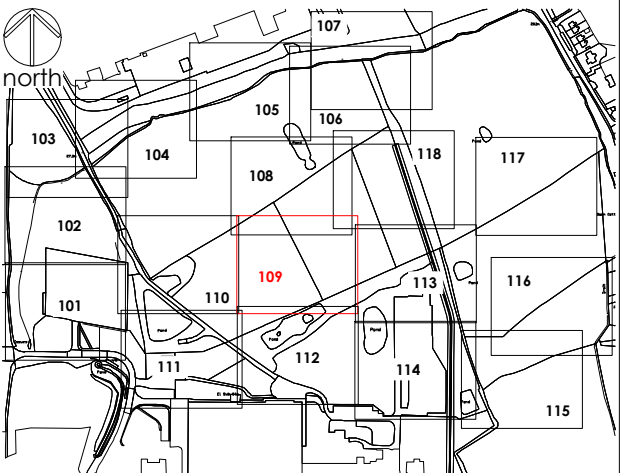
Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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- ### Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.

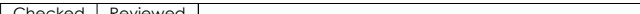


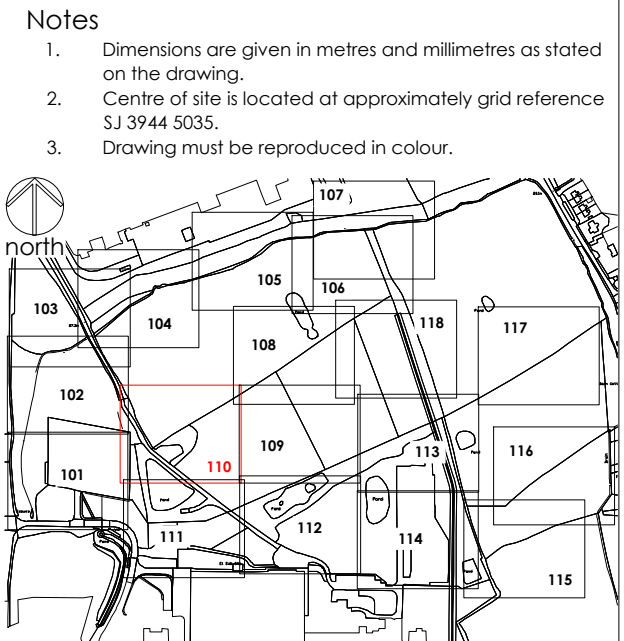
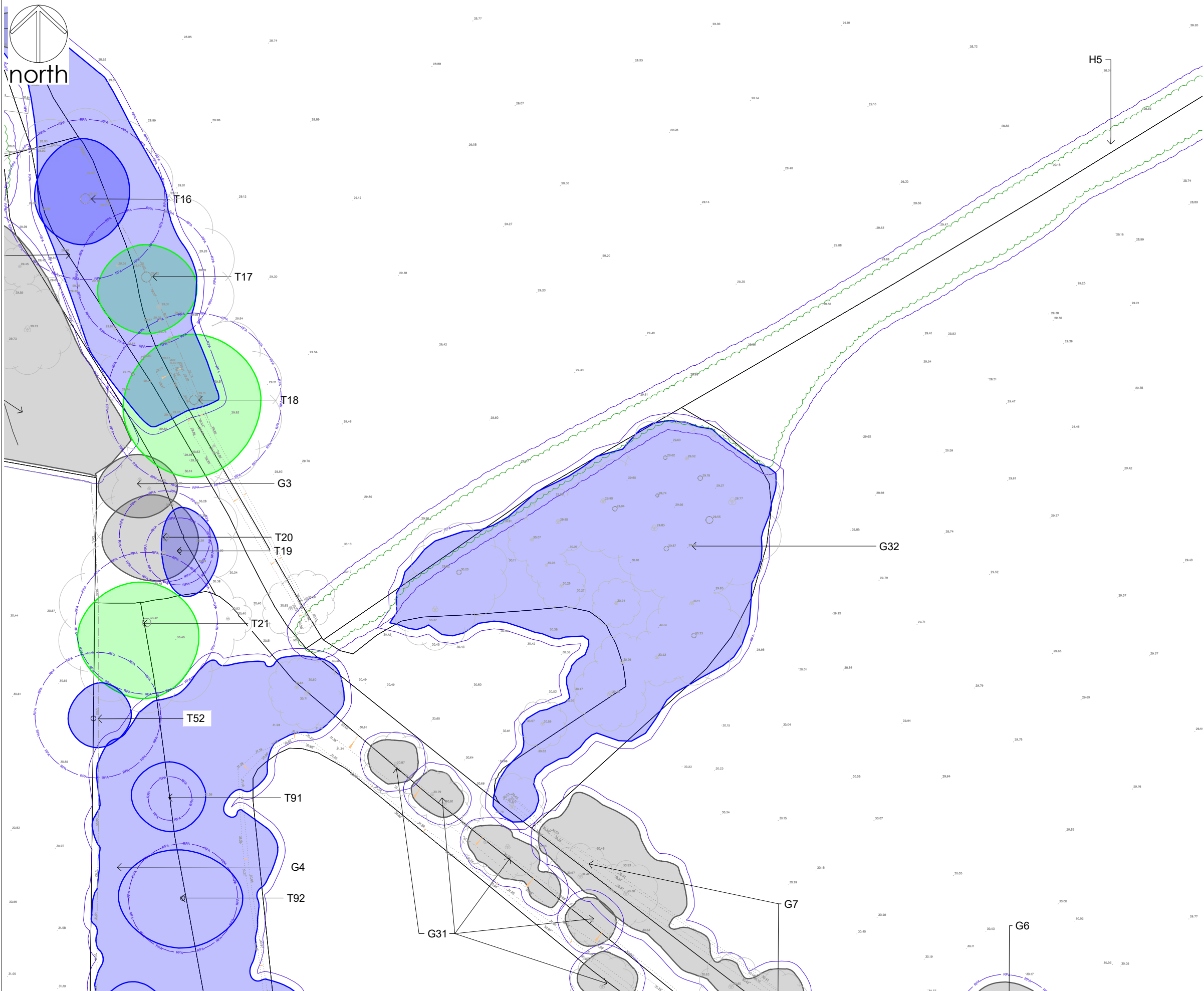
- ### Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS



Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No 274/T/109	Revision	Date	Details	Drawn	Checked	Reviewed		
			P01	03/05/2023	FOR INFORMATION	MD		MD		
Title	TREE CONSTRAINTS PLAN SHEET 9 OF 18	Scale 1:250 @ A1 / 1:500 @ A3	Date 03/05/2023							   mdlandscape 6 Kinderton Close High Legh Knutsford Cheshire WA16 6LZ 07710 498231



Location Plan
0 10 20 30 40 50 60 70 80 90 100
METRES
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.
- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS

TREE CONSTRAINTS PLAN
0 5 10 15 20
METRES
SCALE 1:250 (A1)
SCALE 1:500 (A3)

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
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274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

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Project	KINGMOOR	Dwg No	274/T/110	Date	03/05/2023
	WREXHAM INDUSTRIAL ESTATE				
Title	TREE CONSTRAINTS PLAN	Scale	1:250 @ A1 / 1:500 @ A3		
	SHEET 10 OF 18				

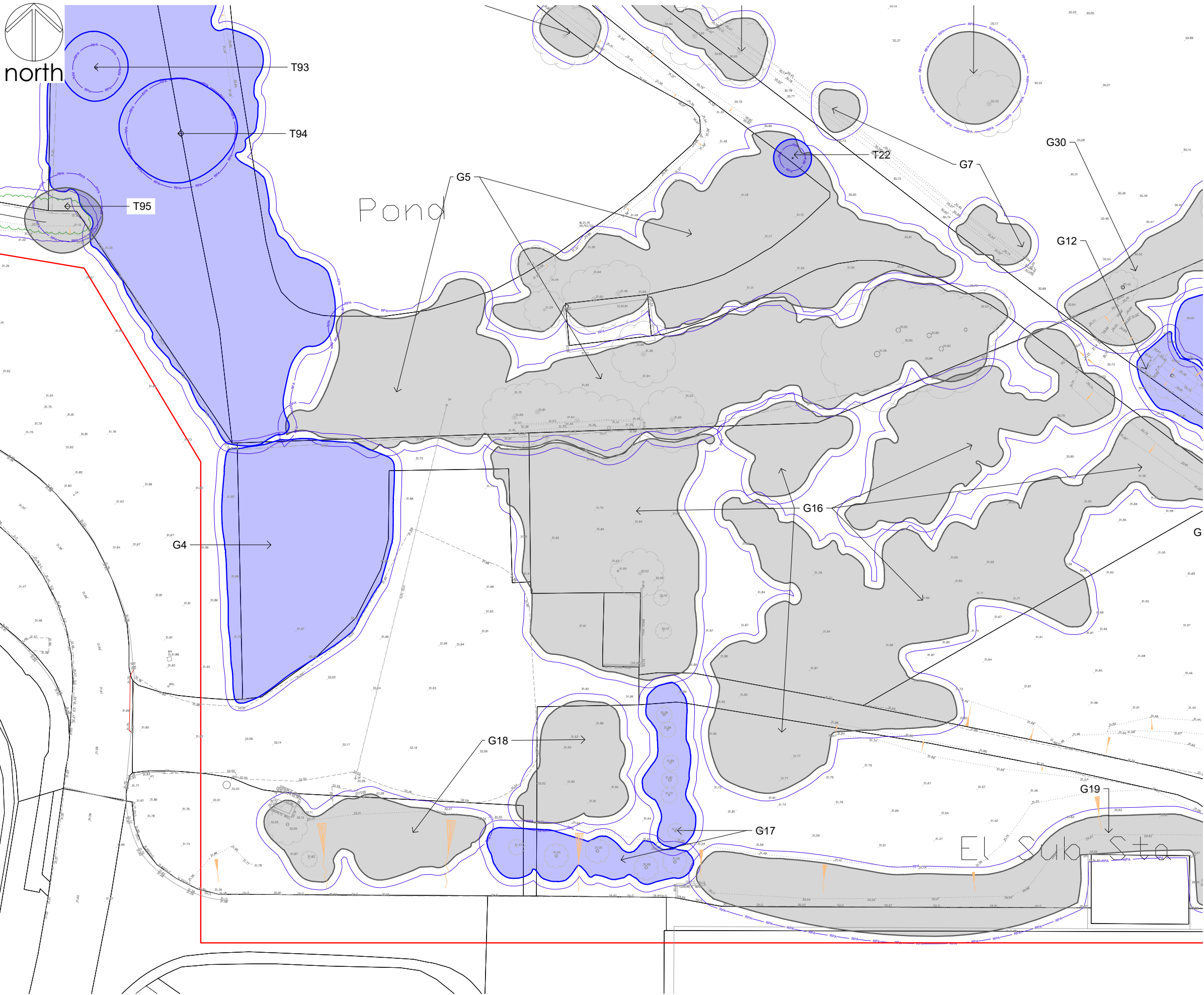
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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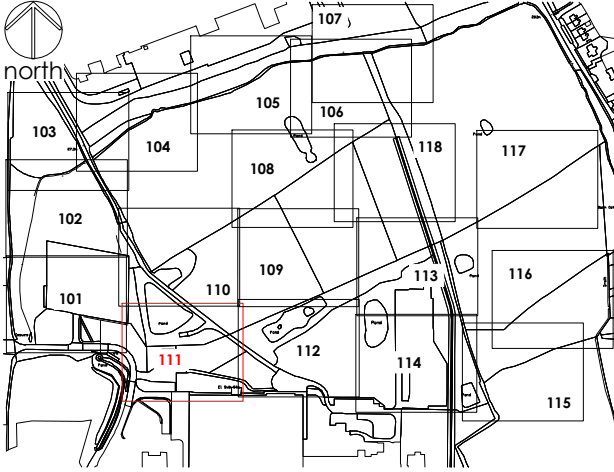
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Registered
Practice

Arboricultural
Association

mdlandscape
6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

METRES

- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS

TREE CONSTRAINTS PLAN

0 5 10 15 20

SCALE 1:250 (A1)
SCALE 1:500 (A3)

METRES

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

OS LICENCE

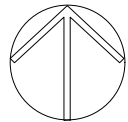
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Project KINGMOOR WREXHAM INDUSTRIAL ESTATE		Dwg No 274/T/111		Revision P01	Date 03/05/2023	Details FOR INFORMATION	Drawn MD	Checked	Reviewed MD
Title TREE CONSTRAINTS PLAN SHEET 11 OF 18		Scale 1:250 @ A1 / 1:500 @ A3		Date 03/05/2023					

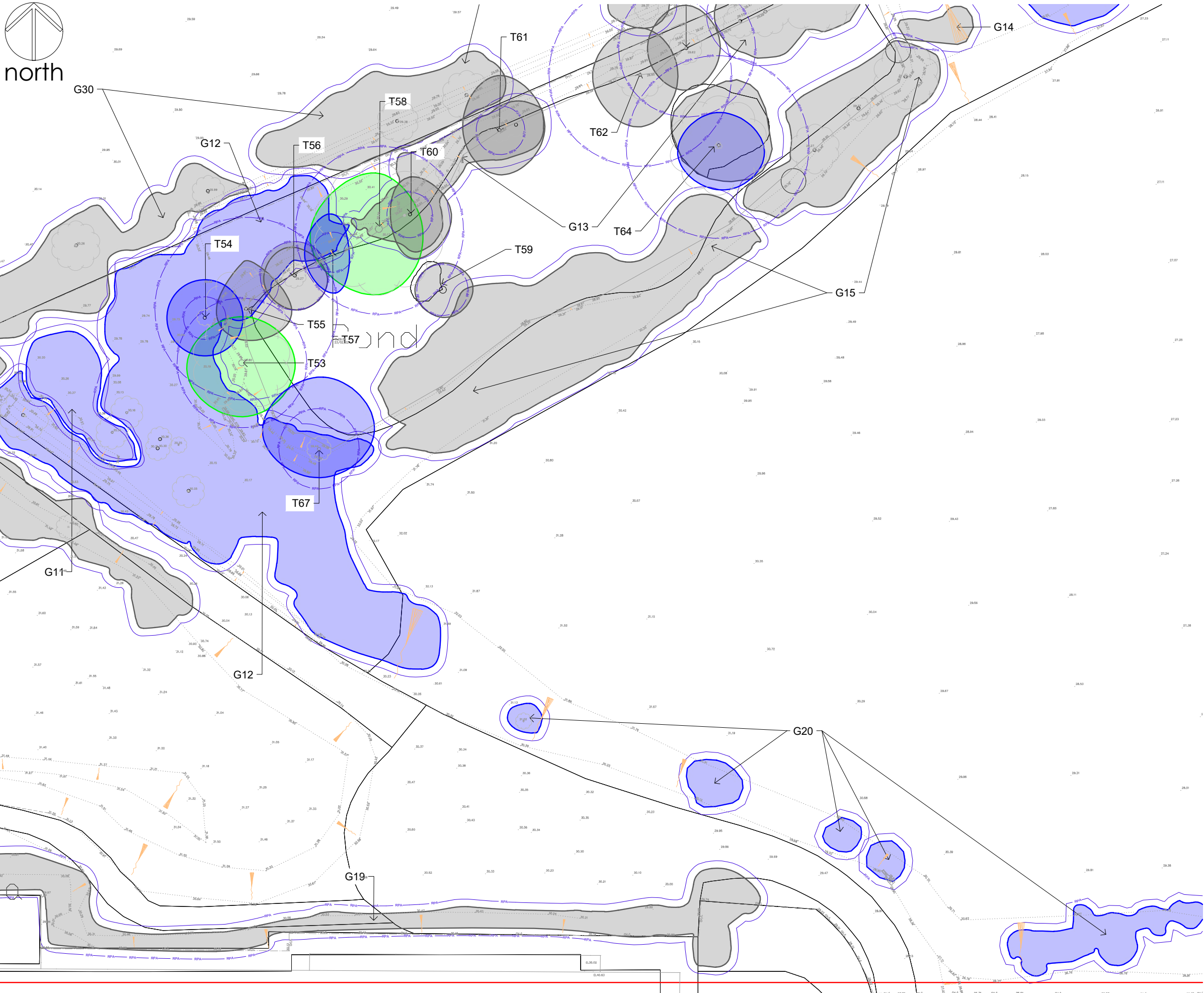


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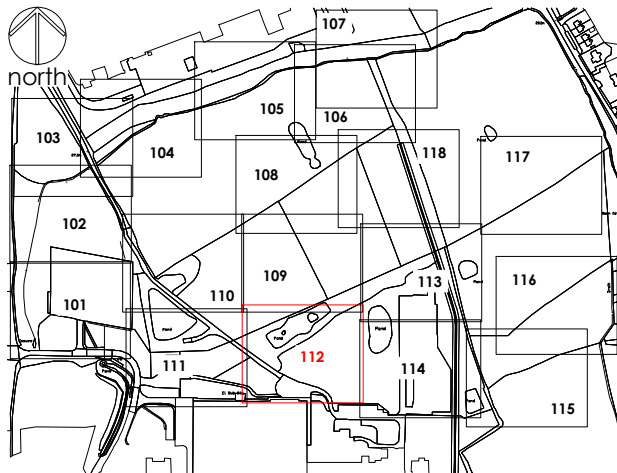


north



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group
- CATEGORY B - moderate quality tree / woodland / group
- CATEGORY C - low quality tree / woodland / group
- CATEGORY U - unsuitable for retention
- HEDGE - CANOPY EXTENTS
- ROOT PROTECTION AREA (RPA)
- REFERENCE - tree, group, woodland
- POTENTIAL VETERAN TREE
- NOT SURVEYED
- TREE AS PLOTTED ON TOPO SURVEY
- SURVEY EXTENTS

TREE CONSTRAINTS PLAN

0 5 10 15 20

SCALE 1:250 (A1)
SCALE 1:500 (A3)

METRES

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/112

Title TREE CONSTRAINTS PLAN
SHEET 12 OF 18

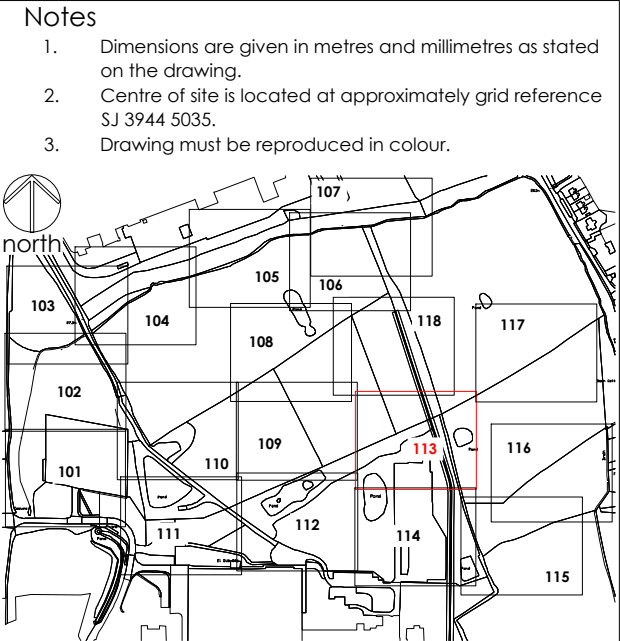
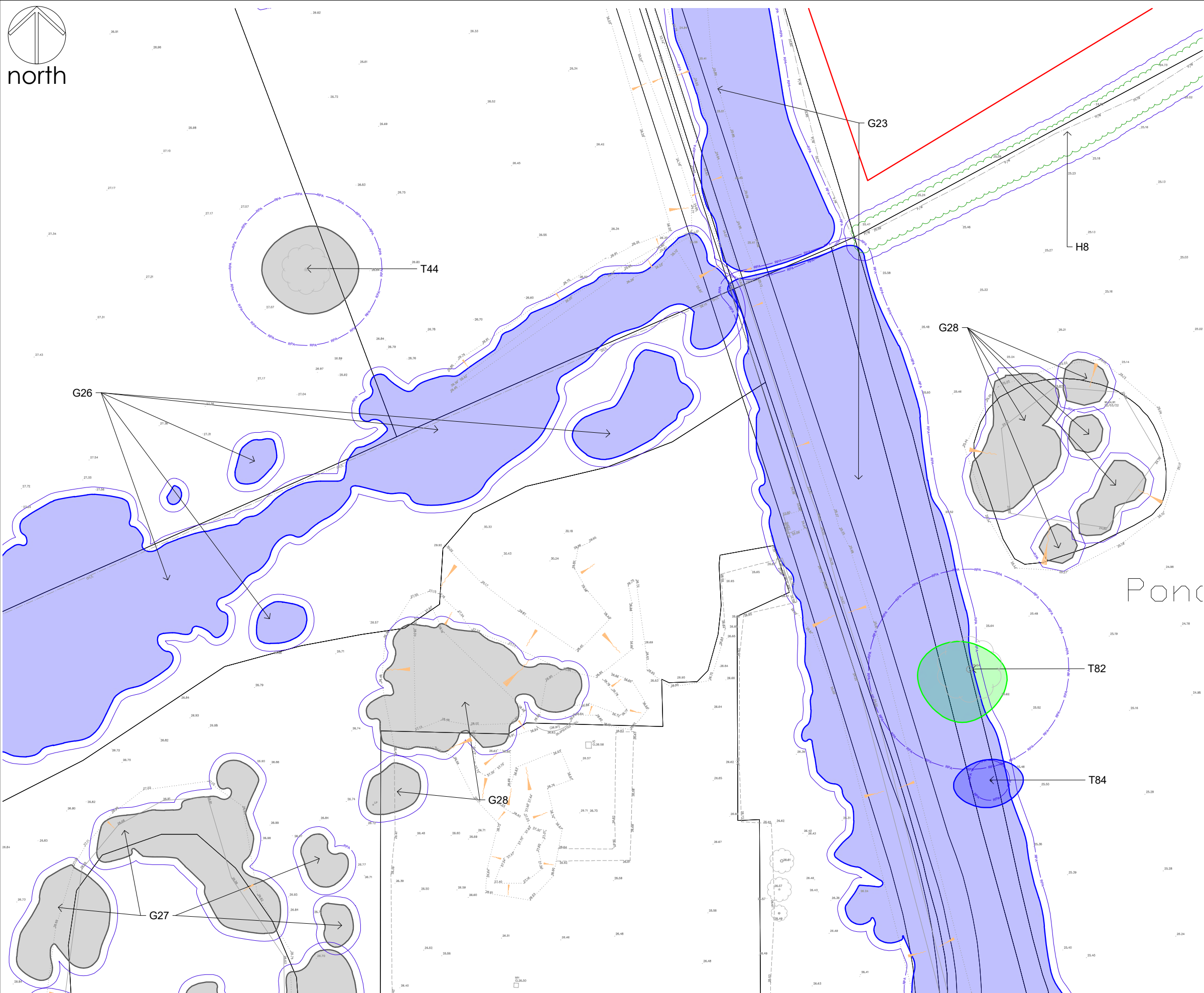
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1:250 @ A1 / 1:500 @ A3

Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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Location Plan
0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS

TREE CONSTRAINTS PLAN
0 5 10 15 20
SCALE 1:250 (A1)
SCALE 1:500 (A3)
METRES

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

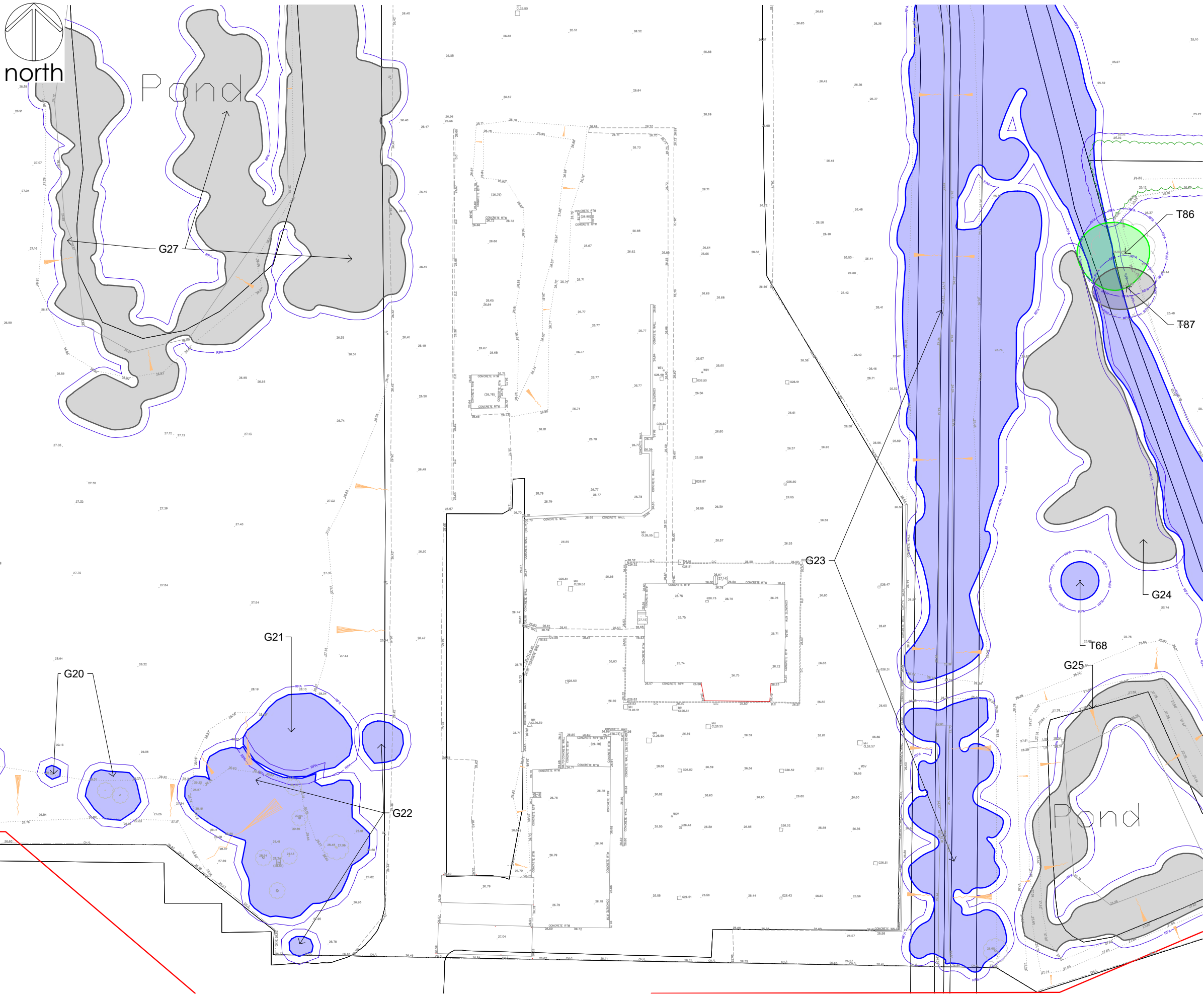
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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/113	Revision	Date	Details	Drawn	Checked	Reviewed
				P01	03/05/2023	FOR INFORMATION	MD		MD
Title	TREE CONSTRAINTS PLAN SHEET 13 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date	03/05/2023				



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Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.

Location Plan

0 10 20 30 40 50 60 70 80 90 100
METRES

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group
- CATEGORY B - moderate quality tree / woodland / group
- CATEGORY C - low quality tree / woodland / group
- CATEGORY U - unsuitable for retention
- HEDGE - CANOPY EXTENTS
- ROOT PROTECTION AREA (RPA)
- T1 REFERENCE - tree, group, woodland
- POTENTIAL VETERAN TREE
- NOT SURVEYED
- TREE AS PLOTTED ON TOPO SURVEY
- SURVEY EXTENTS

TREE CONSTRAINTS PLAN

0 5 10 15 20
METRES

SCALE 1:250 (A1)
SCALE 1:500 (A3)

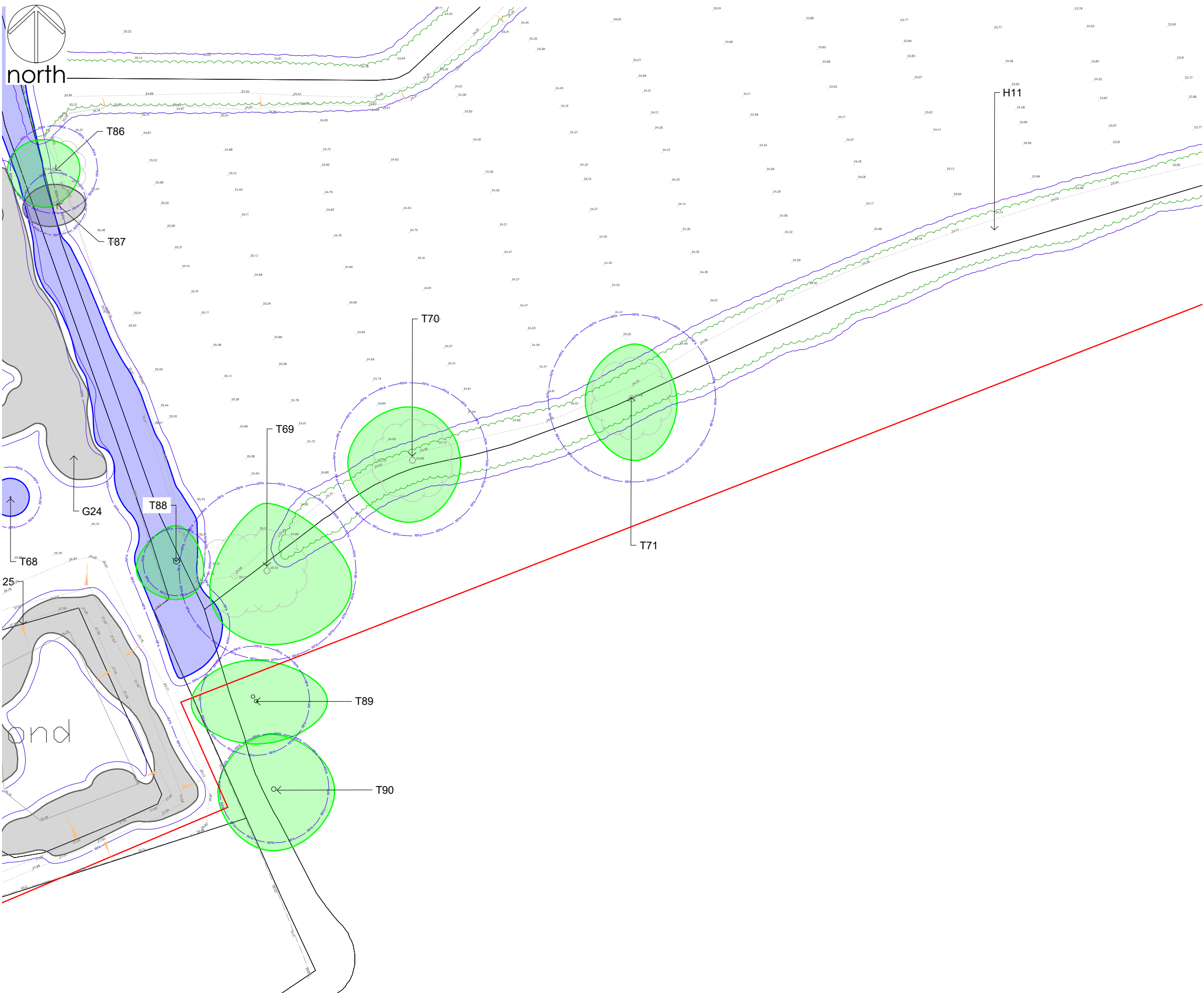
Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

OS LICENCE

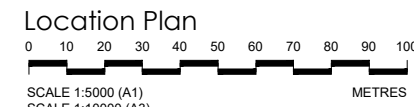
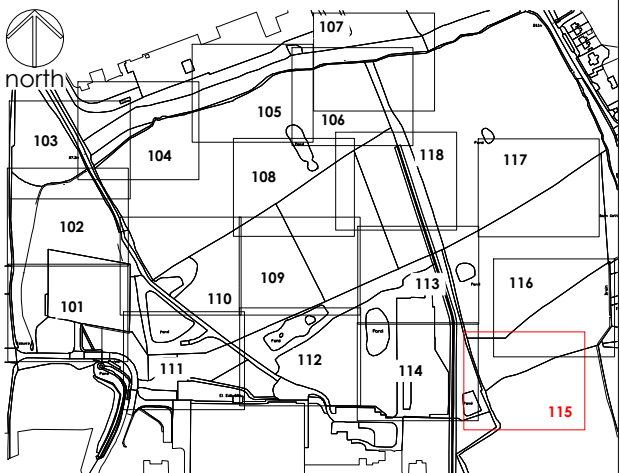
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Project KINGMOOR WREXHAM INDUSTRIAL ESTATE		Dwg No 274/T/114		Revision P01	Date 03/05/2023	Details FOR INFORMATION	Drawn MD	Checked	Reviewed MD	 Chartered Member of the Landscape Institute Landscape Institute Registered Practice Arboricultural Association Professional Member mdlandscape 6 Kinderton Close High Legh Knutsford Cheshire WA16 6LZ 07710 498231
Title TREE CONSTRAINTS PLAN SHEET 14 OF 18		Scale 1:250 @ A1 / 1:500 @ A3			Date 03/05/2023					

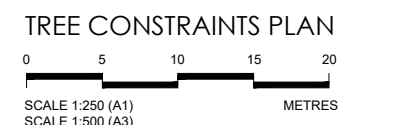
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- ### Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- ### Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS



Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

OS LICENCE

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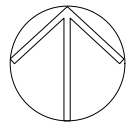
Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/115	Revision	Date	Details	Drawn	Checked	Reviewed
				P01	03/05/2023	FOR INFORMATION	MD		MD
Title	TREE CONSTRAINTS PLAN SHEET 15 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date	03/05/2023				

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Landscape
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Registered
Practice

Arboricultural
Association

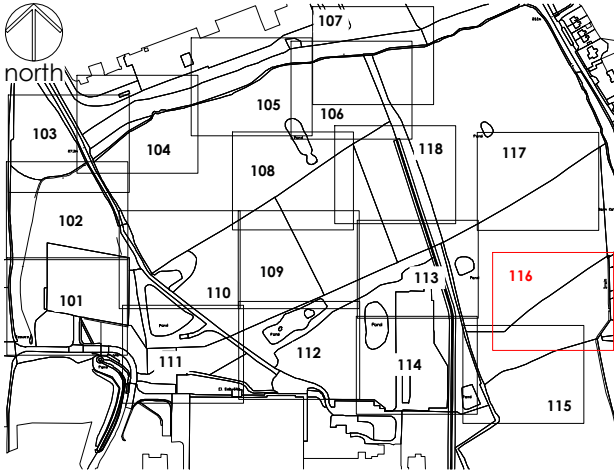
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Cheshire | WA16 6LZ | 07710 498231



north



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Location Plan
0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland
 - POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS

TREE CONSTRAINTS PLAN
0 5 10 15 20
SCALE 1:250 (A1)
SCALE 1:500 (A3)
METRES

Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/116
Title	TREE CONSTRAINTS PLAN SHEET 16 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

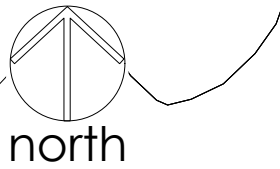
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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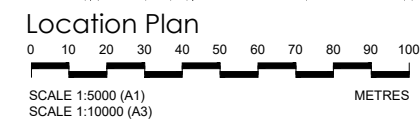
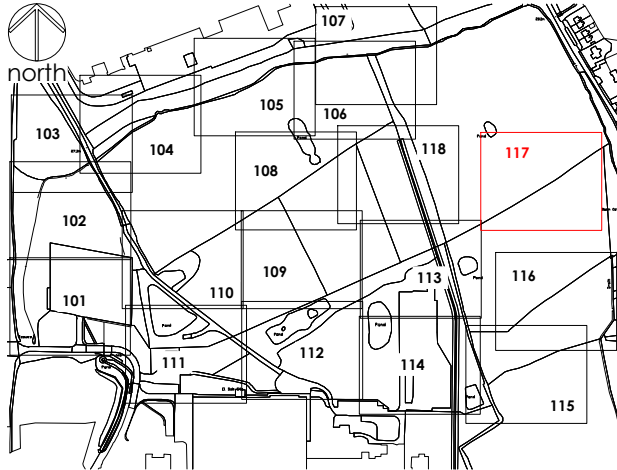
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Institute
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Practice

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Association
Professional Member

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Cheshire | WA16 6LZ | 07710 498231

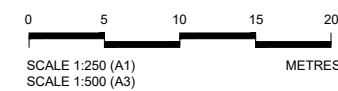


- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group
 - CATEGORY B - moderate quality tree / woodland / group
 - CATEGORY C - low quality tree / woodland / group
 - CATEGORY U - unsuitable for retention
 - HEDGE - CANOPY EXTENTS
 - ROOT PROTECTION AREA (RPA)
 - T1 REFERENCE - tree, group, woodland
 - V POTENTIAL VETERAN TREE
 - NOT SURVEYED
 - TREE AS PLOTTED ON TOPO SURVEY
 - SURVEY EXTENTS

TREE CONSTRAINTS PLAN



Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/118	TREE CONSTRAINTS PLAN SHEET 18 OF 18

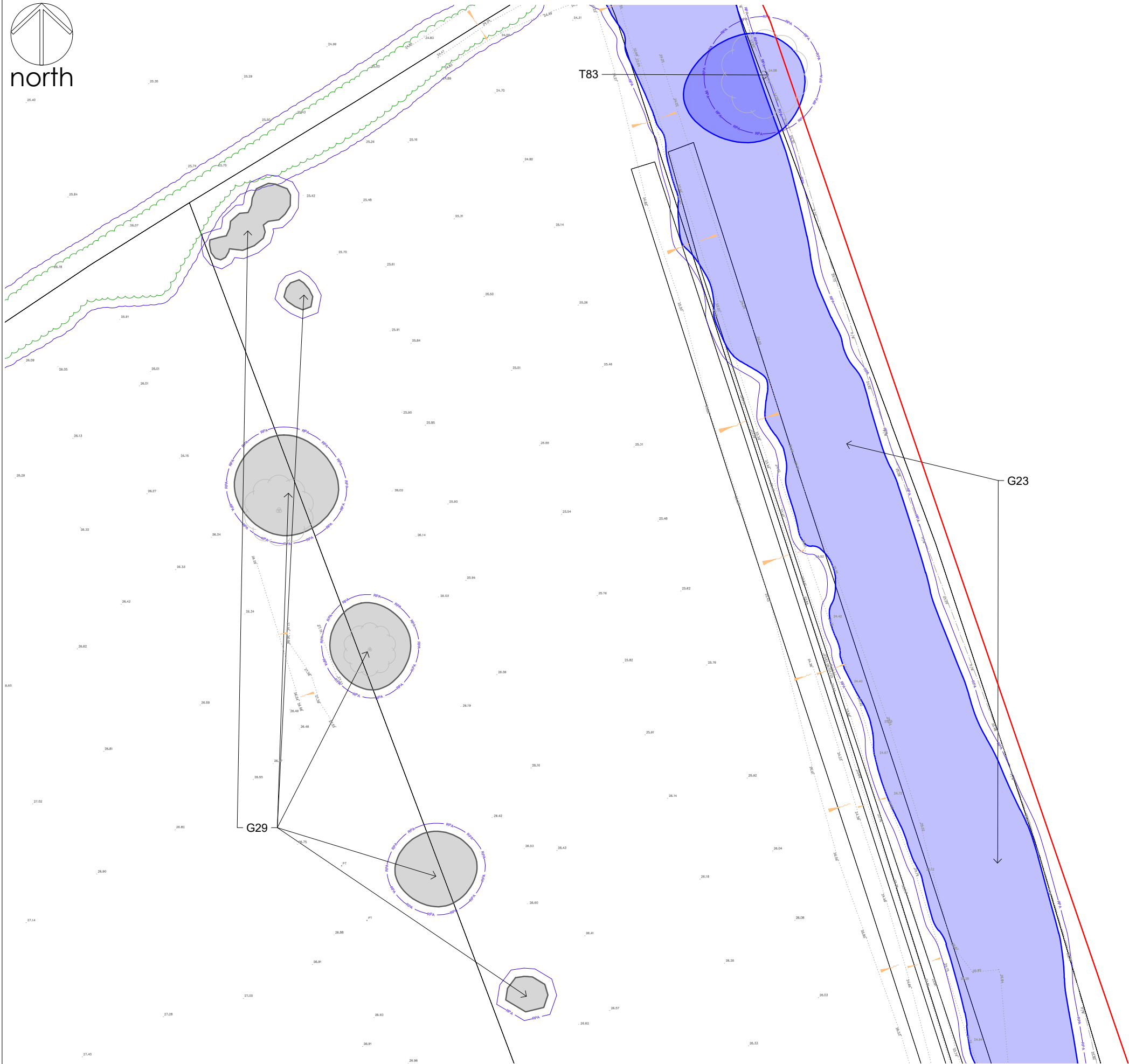
OS LICENCE

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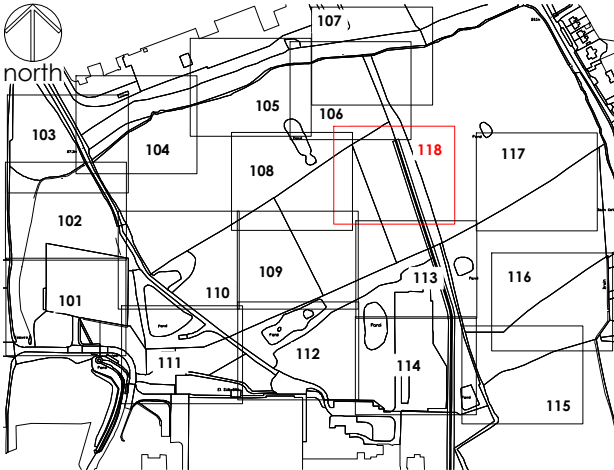
Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/117
Title	TREE CONSTRAINTS PLAN SHEET 17 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

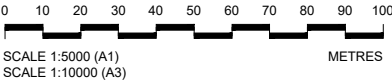


Notes

- 1. Dimensions are given in metres and millimetres as stated on the drawing.
- 2. Centre of site is located at approximately grid reference SJ 3944 5035.
- 3. Drawing must be reproduced in colour.



Location Plan

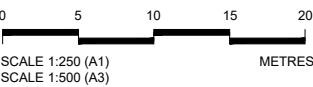


Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group
- CATEGORY B - moderate quality tree / woodland / group
- CATEGORY C - low quality tree / woodland / group
- CATEGORY U - unsuitable for retention
- HEDGE - CANOPY EXTENTS
- ROOT PROTECTION AREA (RPA)
- REFERENCE - tree, group, woodland
- POTENTIAL VETERAN TREE
- NOT SURVEYED
- TREE AS PLOTTED ON TOPO SURVEY
- SURVEY EXTENTS

TREE CONSTRAINTS PLAN



Drawing references	
274/T/101	TREE CONSTRAINTS PLAN SHEET 1 OF 18
274/T/102	TREE CONSTRAINTS PLAN SHEET 2 OF 18
274/T/103	TREE CONSTRAINTS PLAN SHEET 3 OF 18
274/T/104	TREE CONSTRAINTS PLAN SHEET 4 OF 18
274/T/105	TREE CONSTRAINTS PLAN SHEET 5 OF 18
274/T/106	TREE CONSTRAINTS PLAN SHEET 6 OF 18
274/T/107	TREE CONSTRAINTS PLAN SHEET 7 OF 18
274/T/108	TREE CONSTRAINTS PLAN SHEET 8 OF 18
274/T/109	TREE CONSTRAINTS PLAN SHEET 9 OF 18
274/T/110	TREE CONSTRAINTS PLAN SHEET 10 OF 18
274/T/111	TREE CONSTRAINTS PLAN SHEET 11 OF 18
274/T/112	TREE CONSTRAINTS PLAN SHEET 12 OF 18
274/T/113	TREE CONSTRAINTS PLAN SHEET 13 OF 18
274/T/114	TREE CONSTRAINTS PLAN SHEET 14 OF 18
274/T/115	TREE CONSTRAINTS PLAN SHEET 15 OF 18
274/T/116	TREE CONSTRAINTS PLAN SHEET 16 OF 18
274/T/117	TREE CONSTRAINTS PLAN SHEET 17 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/118

Title TREE CONSTRAINTS PLAN
SHEET 18 OF 18

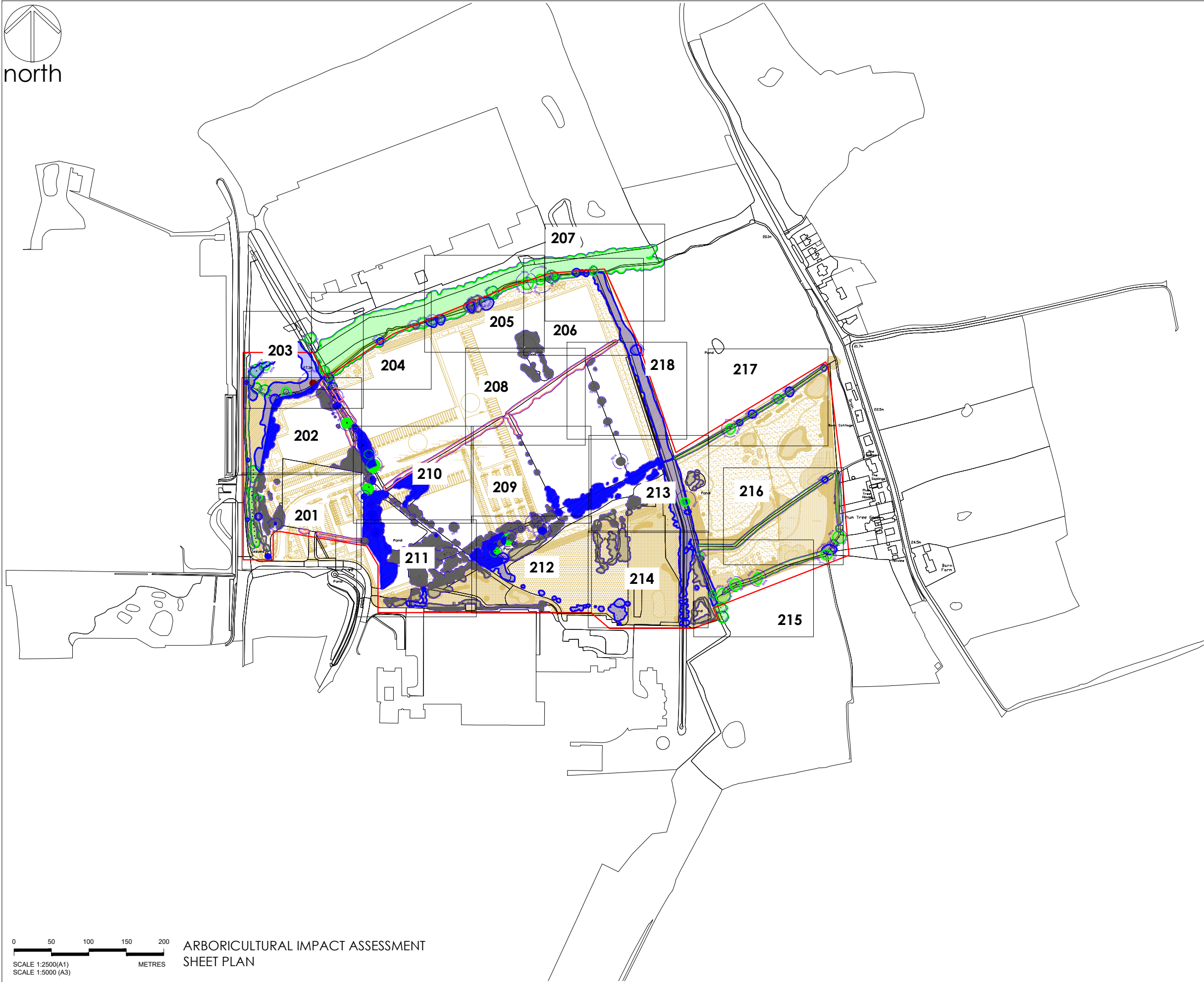
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Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan
not to scale



ARBORICULTURAL IMPACT ASSESSMENT
SHEET PLAN

Drawing references

274/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
274/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
274/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
274/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
274/1/208	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 8 OF 18
274/1/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
274/1/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
274/1/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
274/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
274/1/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
274/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
274/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/200

Title ARBORICULTURAL IMPACT ASSESSMENT
SHEET PLAN

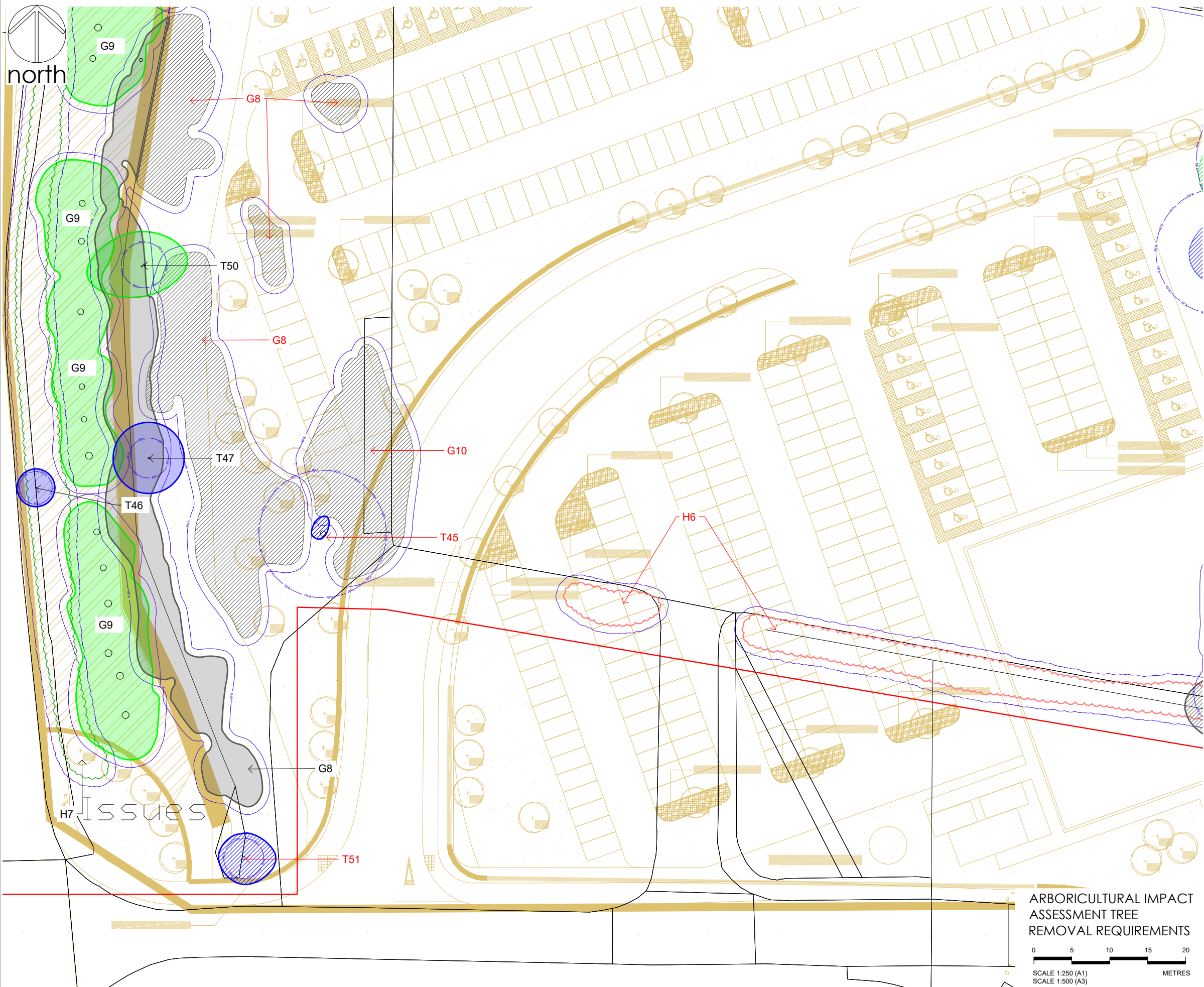
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Date
30/05/2023

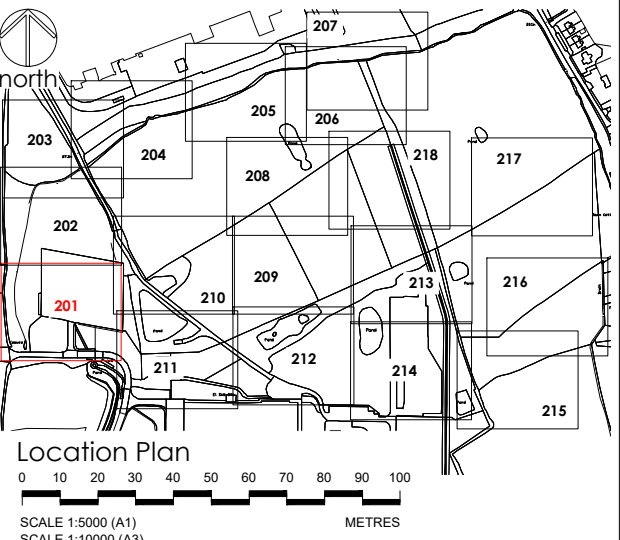
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group to be retained
 - CATEGORY B - moderate quality tree / woodland / group to be retained
 - CATEGORY C - low quality tree / woodland / group to be retained
 - CATEGORY U - unsuitable for retention
 - HEDGE - to be retained
 - ROOT PROTECTION AREA (RPA)
 - T, G, W, V REFERENCE - tree, group, woodland potential veteran tree retained
 - PROPOSED DEVELOPMENT
 - ASSESSMENT EXTENTS
 - CATEGORY A - high quality tree / woodland / group to be removed
 - CATEGORY B - moderate quality tree / woodland / group to be removed
 - CATEGORY C - low quality tree / woodland / group to be removed
 - CATEGORY U - unsuitable for retention to be removed
 - HEDGE - to be removed
 - T REFERENCE - tree, group, woodland to be removed

Drawing references	
274/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
274/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
274/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
274/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
274/1/208	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 8 OF 18
274/1/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
274/1/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
274/1/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
274/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
274/1/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
274/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
274/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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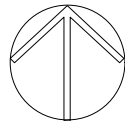
Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/201
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 1 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

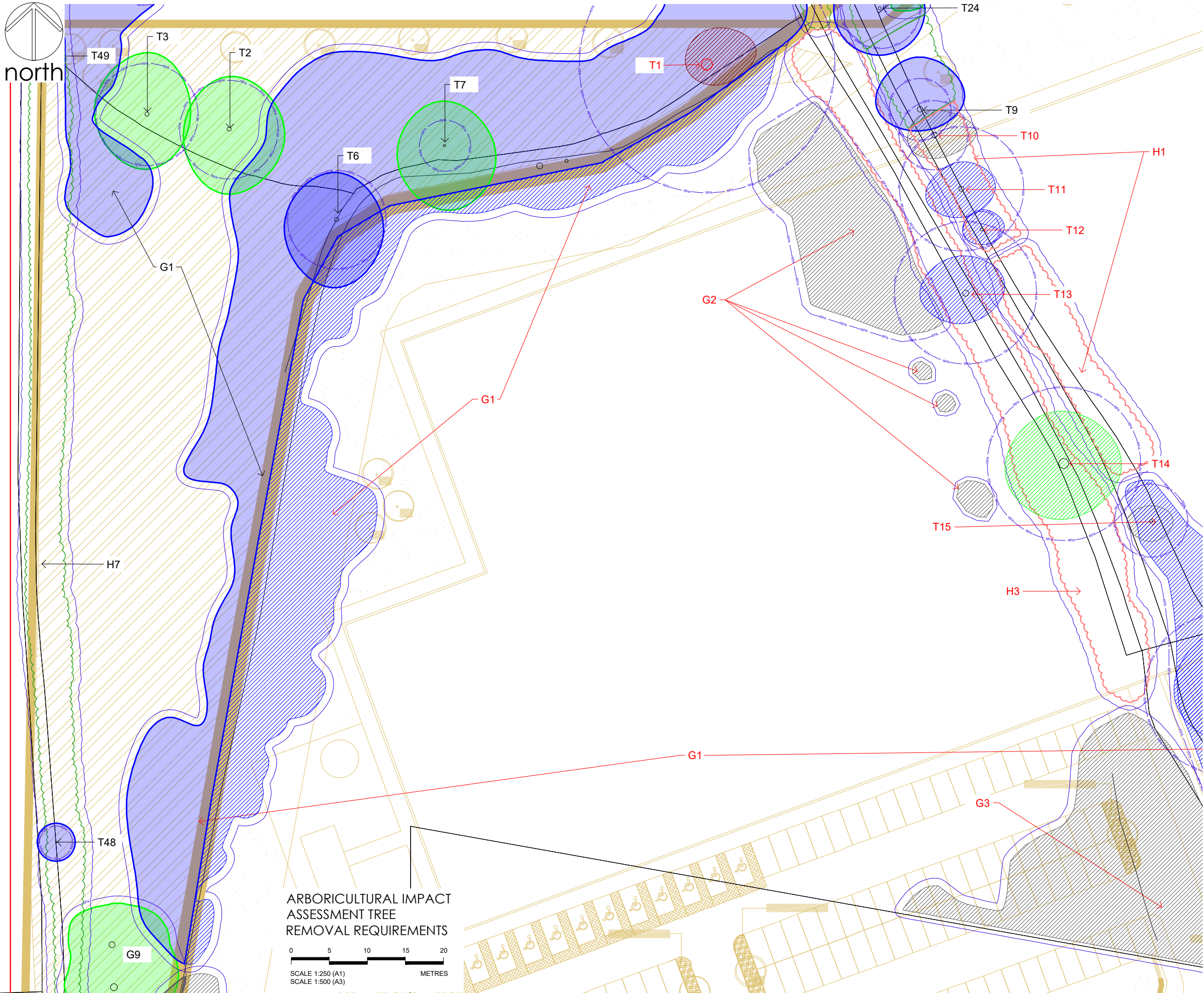


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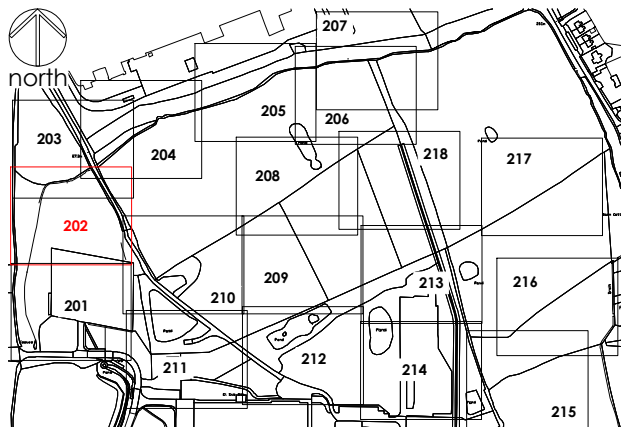


north



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour.

- CATEGORY A - high quality tree / woodland / group to be retained
- CATEGORY B - moderate quality tree / woodland / group to be retained
- CATEGORY C - low quality tree / woodland / group to be retained
- CATEGORY U - unsuitable for retention
- HEDGE - to be retained
- ROOT PROTECTION AREA (RPA)
- REFERENCE - tree, group, woodland potential veteran tree retained
- PROPOSED DEVELOPMENT
- ASSESSMENT EXTENTS
- CATEGORY A - high quality tree / woodland / group to be removed
- CATEGORY B - moderate quality tree / woodland / group to be removed
- CATEGORY C - low quality tree / woodland / group to be removed
- CATEGORY U - unsuitable for retention to be removed
- HEDGE - to be removed
- REFERENCE - tree, group, woodland to be removed

Drawing references

274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/T/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
274/T/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
274/T/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
274/T/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
274/T/208	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 8 OF 18
274/T/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
274/T/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
274/T/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
274/T/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
274/T/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
274/T/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
274/T/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

OS LICENCE

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/202

Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL
SHEET 2 OF 18

Scale
1:250 @ A1 / 1:500 @ A3

Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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Cheshire | WA16 6LZ | 07710 498231

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Landscape
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Registered
Practice

Arboricultural
Association



north

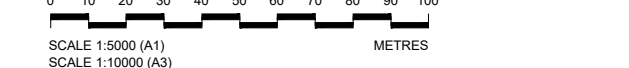
0 5 10 15 20

SCALE 1:250 (A1)
SCALE 1:500 (A3)

METRES



1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.

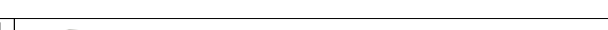


to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- | | |
|---|--|
|  | CATEGORY A - high quality tree / woodland / group to be retained |
|  | CATEGORY B - moderate quality tree / woodland / group to be retained |
|  | CATEGORY C - low quality tree / woodland / group to be retained |
|  | CATEGORY U - unsuitable for retention |
|  | HEDGE - to be retained |
|  | ROOT PROTECTION AREA (RPA) |
|  | REFERENCE - tree, group, woodland potential veteran tree retained |
|  | PROPOSED DEVELOPMENT |
|  | ASSESSMENT EXTENTS |
|  | CATEGORY A - high quality tree / woodland / group to be removed |
|  | CATEGORY B - moderate quality tree / woodland / group to be removed |
|  | CATEGORY C - low quality tree / woodland / group to be removed |
|  | CATEGORY U - unsuitable for retention to be removed |
|  | HEDGE - to be removed |
|  | REFERENCE - tree, group, woodland to be removed |

2/7/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
2/7/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
2/7/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
2/7/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
2/7/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
2/7/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
2/7/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
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2/7/1/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
2/7/1/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
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2/7/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
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2/7/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
2/7/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
2/7/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
2/7/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
2/7/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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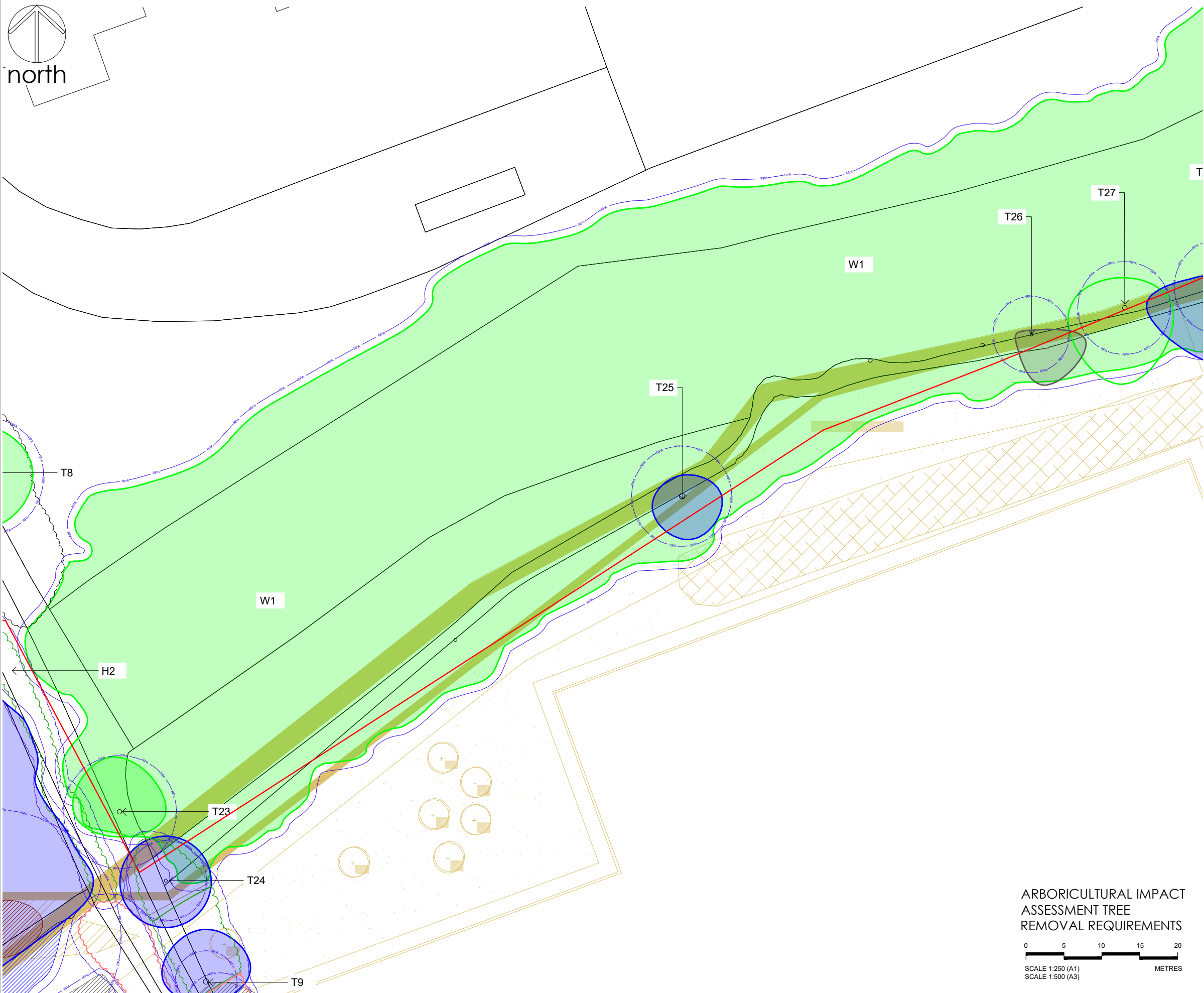


Dwg No 274/T/203

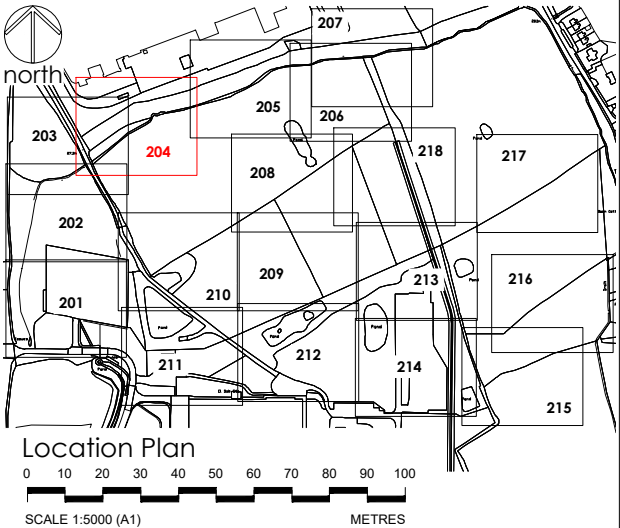
Scale	Date
1:250 @ A1 / 1:500 @ A3	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group to be retained
 - CATEGORY B - moderate quality tree / woodland / group to be retained
 - CATEGORY C - low quality tree / woodland / group to be retained
 - CATEGORY U - unsuitable for retention
 - HEDGE - to be retained
 - ROOT PROTECTION AREA (RPA)
 - REFERENCE - tree, group, woodland potential veteran tree retained
 - PROPOSED DEVELOPMENT
 - ASSESSMENT EXTENTS
 - CATEGORY A - high quality tree / woodland / group to be removed
 - CATEGORY B - moderate quality tree / woodland / group to be removed
 - CATEGORY C - low quality tree / woodland / group to be removed
 - CATEGORY U - unsuitable for retention to be removed
 - HEDGE - to be removed
 - REFERENCE - tree, group, woodland to be removed

Drawing references	
274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
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274/T/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

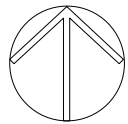
OS LICENCE

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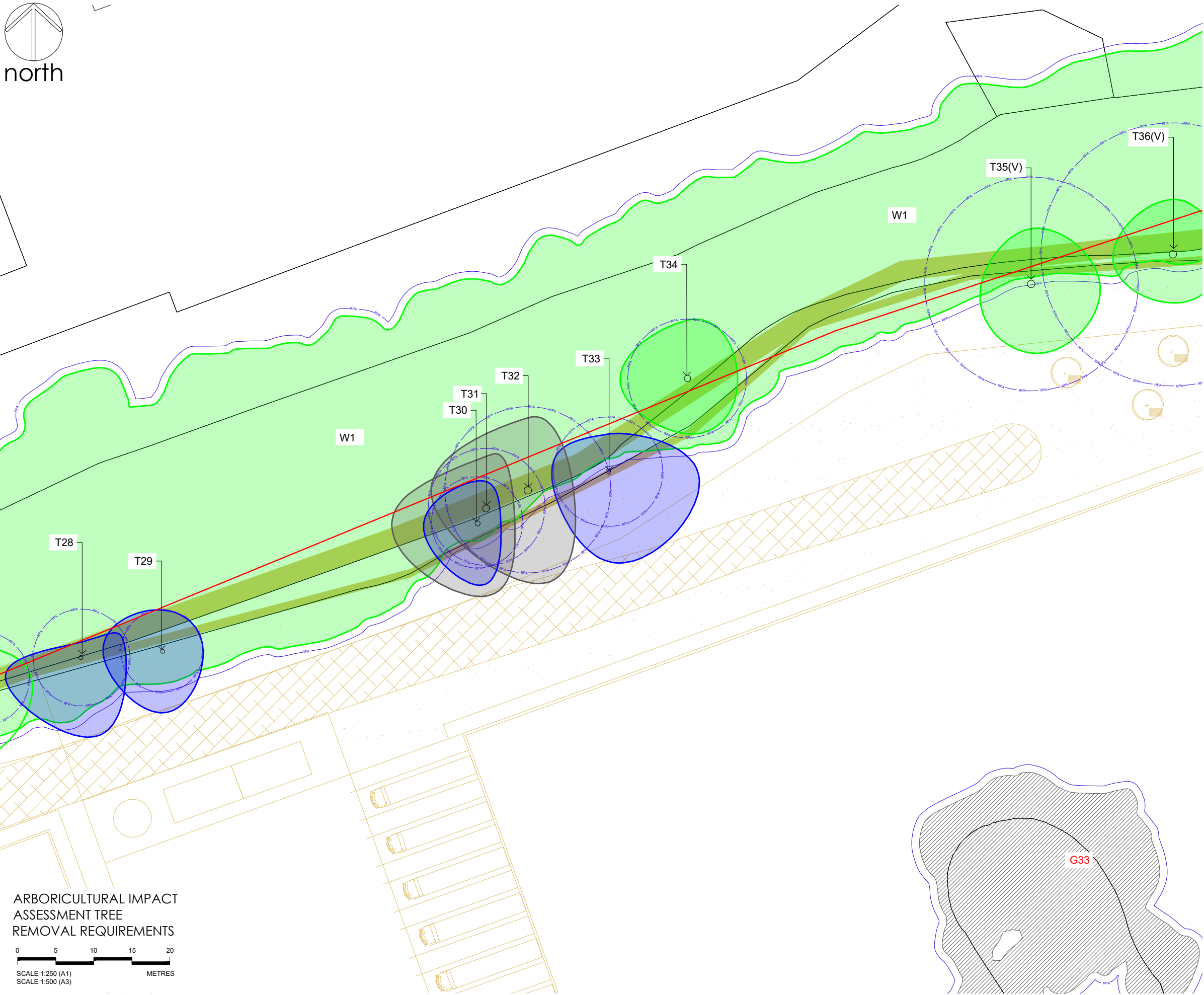
Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/204	Date	03/05/2023
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 4 OF 18	Scale	1:250 @ A1 / 1:500 @ A3		

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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Cheshire | WA16 6LZ | 07710 498231



north

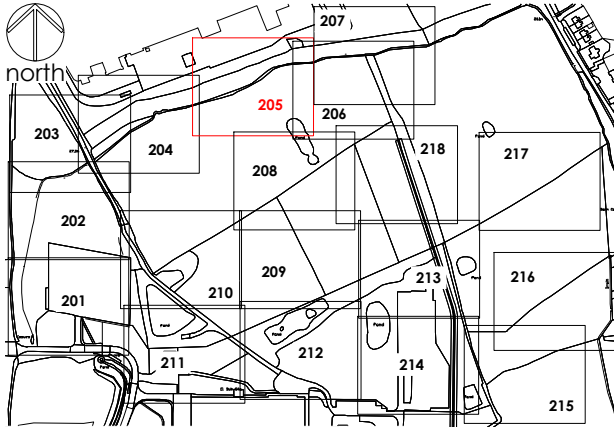


ARBORICULTURAL IMPACT
ASSESSMENT TREE
REMOVAL REQUIREMENTS

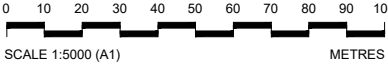


Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group to be retained
- CATEGORY B - moderate quality tree / woodland / group to be retained
- CATEGORY C - low quality tree / woodland / group to be retained
- CATEGORY U - unsuitable for retention
- HEDGE - to be retained
- ROOT PROTECTION AREA (RPA)
- REFERENCE - tree, group, woodland potential veteran tree retained
- PROPOSED DEVELOPMENT
- ASSESSMENT EXTENTS
- CATEGORY A - high quality tree / woodland / group to be removed
- CATEGORY B - moderate quality tree / woodland / group to be removed
- CATEGORY C - low quality tree / woodland / group to be removed
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- HEDGE - to be removed
- REFERENCE - tree, group, woodland to be removed

Drawing references

27/4/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
27/4/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
27/4/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
27/4/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
27/4/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
27/4/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
27/4/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
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27/4/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
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27/4/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
27/4/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
27/4/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

OS LICENCE

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/205

Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL
SHEET 5 OF 18

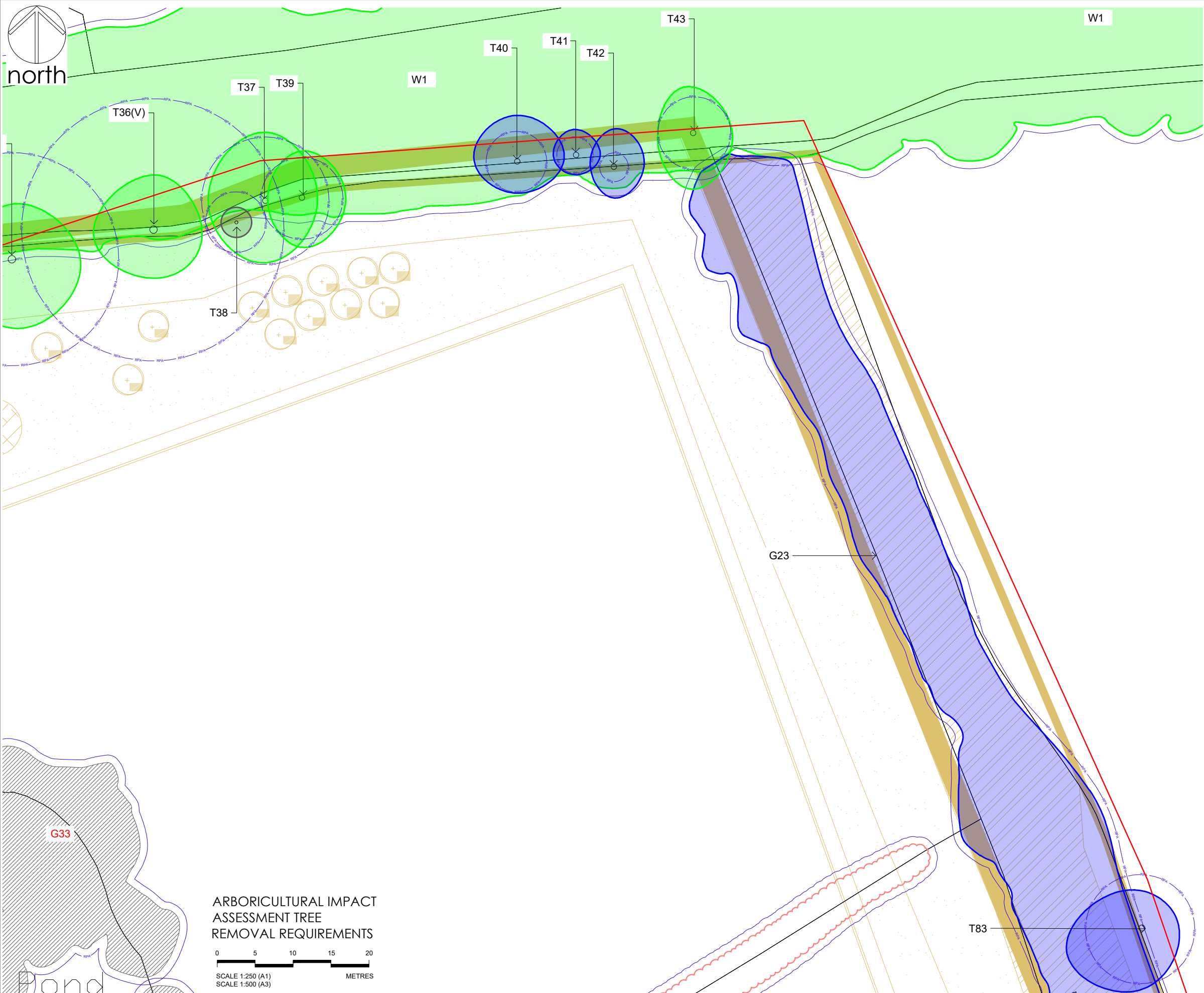
Scale
1:250 @ A1 / 1:500 @ A3

Date
03/05/2023

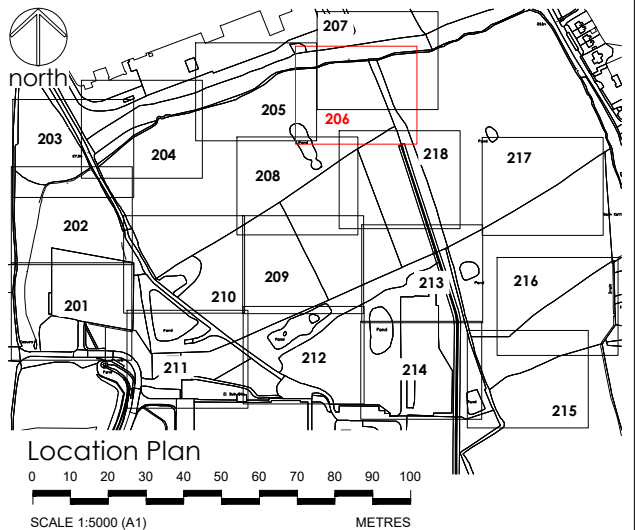
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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Cheshire | WA16 6LZ | 07710 498231



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Legend

Trees categorised in accordance with BS5837:2012 trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour

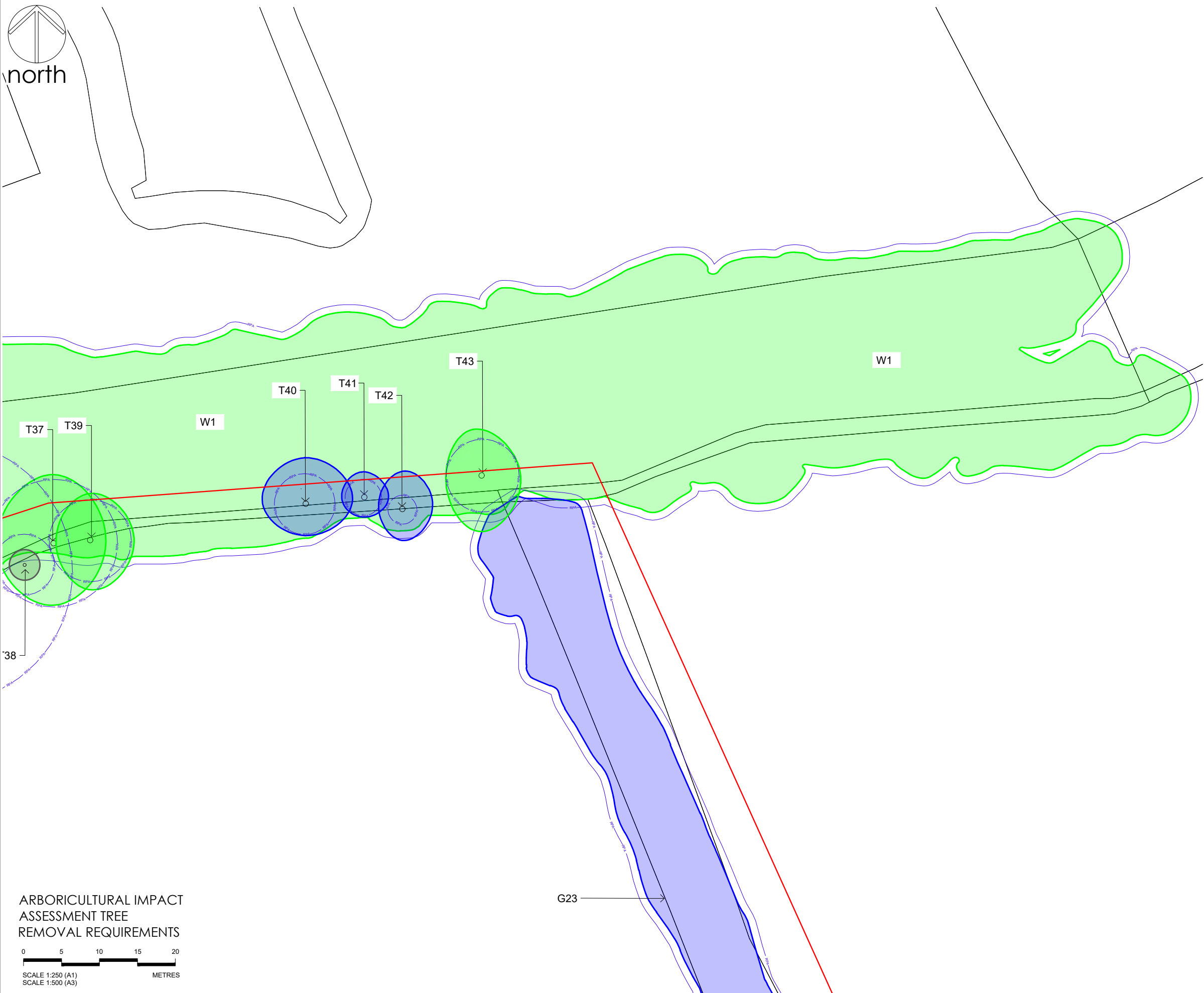
- CATEGORY A - high quality tree / woodland / group to be retained
- CATEGORY B - moderate quality tree / woodland / group to be retained
- CATEGORY C - low quality tree / woodland / group to be retained
- CATEGORY U - unsuitable for retention
- HEDGE - to be retained
- ROOT PROTECTION AREA (RPA)
- T, G, W, V REFERENCE - tree, group, woodland potential veteran tree retained
- PROPOSED DEVELOPMENT
- ASSESSMENT EXTENTS
- CATEGORY A - high quality tree / woodland / group to be removed
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- CATEGORY C - low quality tree / woodland / group to be removed
- CATEGORY U - unsuitable for retention to be removed
- HEDGE - to be removed
- T1 REFERENCE - tree, group, woodland to be removed

Drawing references	
27/4/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
27/4/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
27/4/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
27/4/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
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27/4/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
27/4/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
27/4/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

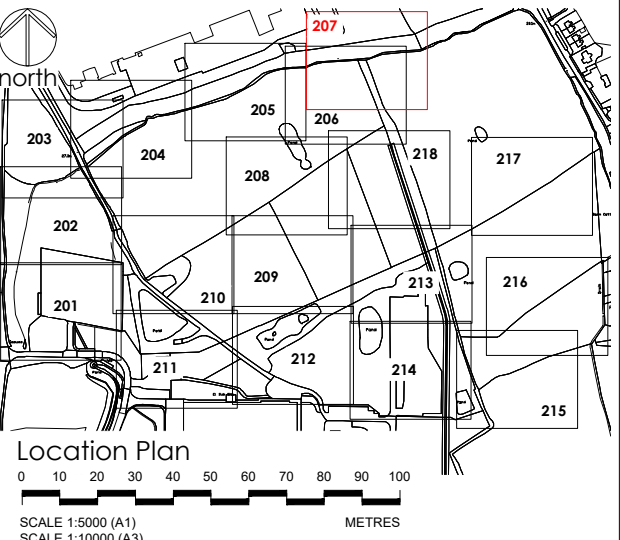
OS LICENCE

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Project KINGMOOR WREXHAM INDUSTRIAL ESTATE		Dwg No 274/T/206		Revision P01	Date 03/05/2023	Details FOR INFORMATION	Drawn MD	Checked	Reviewed MD
Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 6 OF 18		Scale 1:250 @ A1 / 1:500 @ A3		Date 03/05/2023					



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
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- CATEGORY A - high quality tree / woodland / group to be retained
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 - CATEGORY C - low quality tree / woodland / group to be retained
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 - CATEGORY U - unsuitable for retention to be removed
 - HEDGE - to be removed
 - T1 REFERENCE - tree, group, woodland to be removed

Drawing references	
274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
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274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/207
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 7 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



mdlandscape

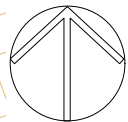
6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231



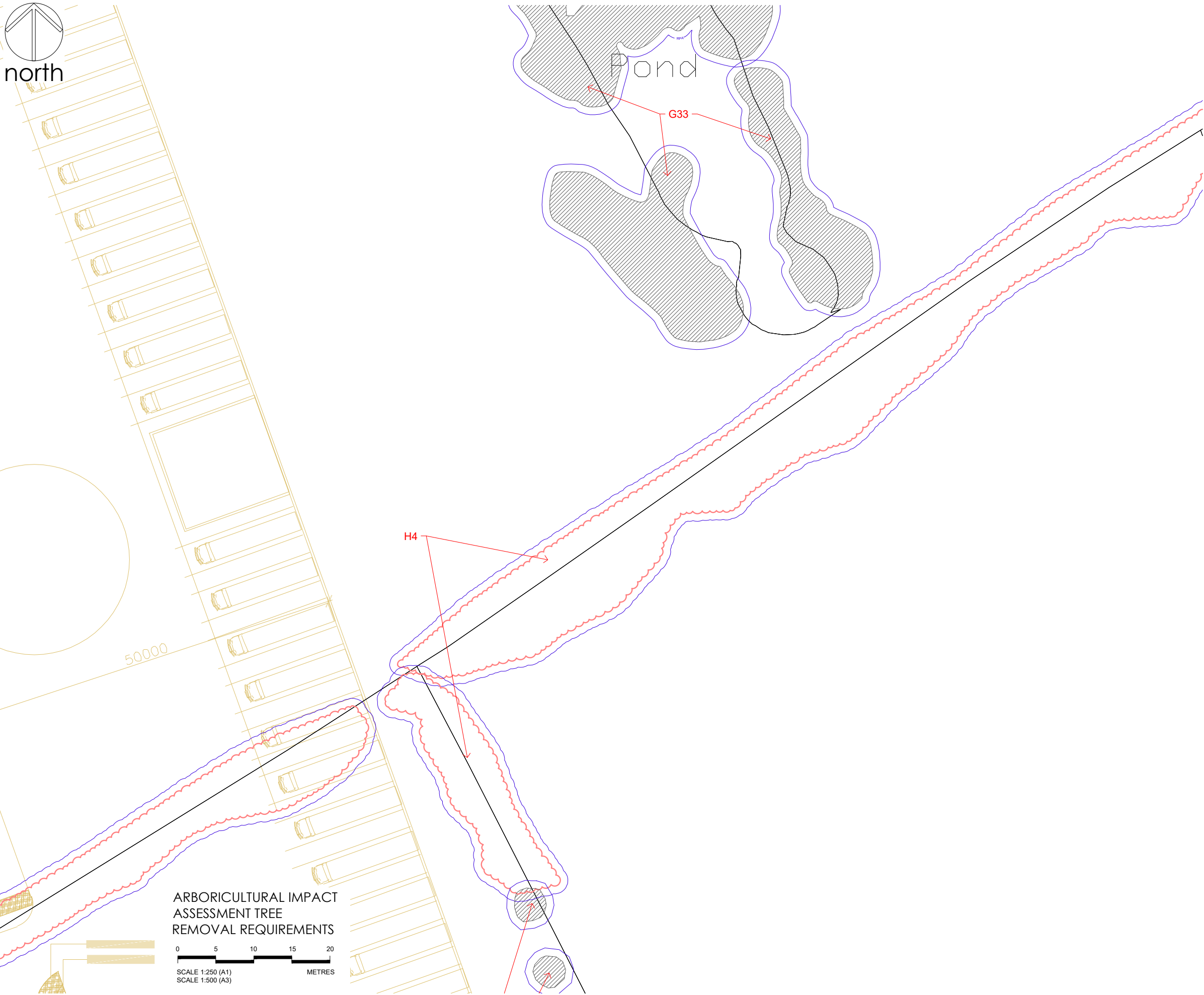
Chartered Member of the Landscape Institute

Landscape Institute

Arboricultural Association



north

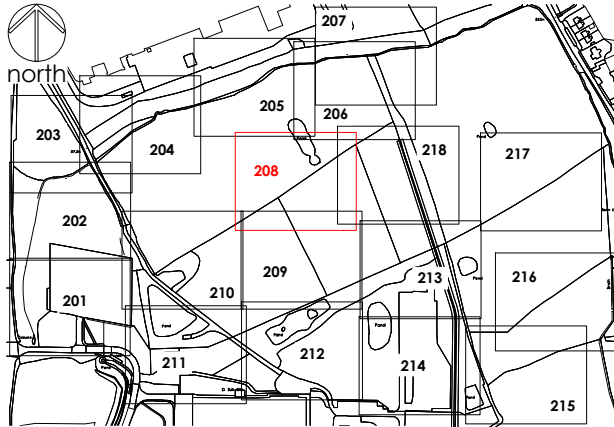


ARBORICULTURAL IMPACT
ASSESSMENT TREE
REMOVAL REQUIREMENTS



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group to be retained
- CATEGORY B - moderate quality tree / woodland / group to be retained
- CATEGORY C - low quality tree / woodland / group to be retained
- CATEGORY U - unsuitable for retention
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- ROOT PROTECTION AREA (RPA)
- T. G. W. V.
- REFERENCE - tree, group, woodland potential veteran tree retained
- PROPOSED DEVELOPMENT
- ASSESSMENT EXTENTS
- CATEGORY A - high quality tree / woodland / group to be removed
- CATEGORY B - moderate quality tree / woodland / group to be removed
- CATEGORY C - low quality tree / woodland / group to be removed
- CATEGORY U - unsuitable for retention to be removed
- HEDGE - to be removed
- REFERENCE - tree, group, woodland to be removed

Drawing references

274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/T/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
274/T/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
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274/T/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
274/T/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
274/T/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
274/T/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
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274/T/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

OS LICENCE

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No 274/T/208

Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL
SHEET 8 OF 18

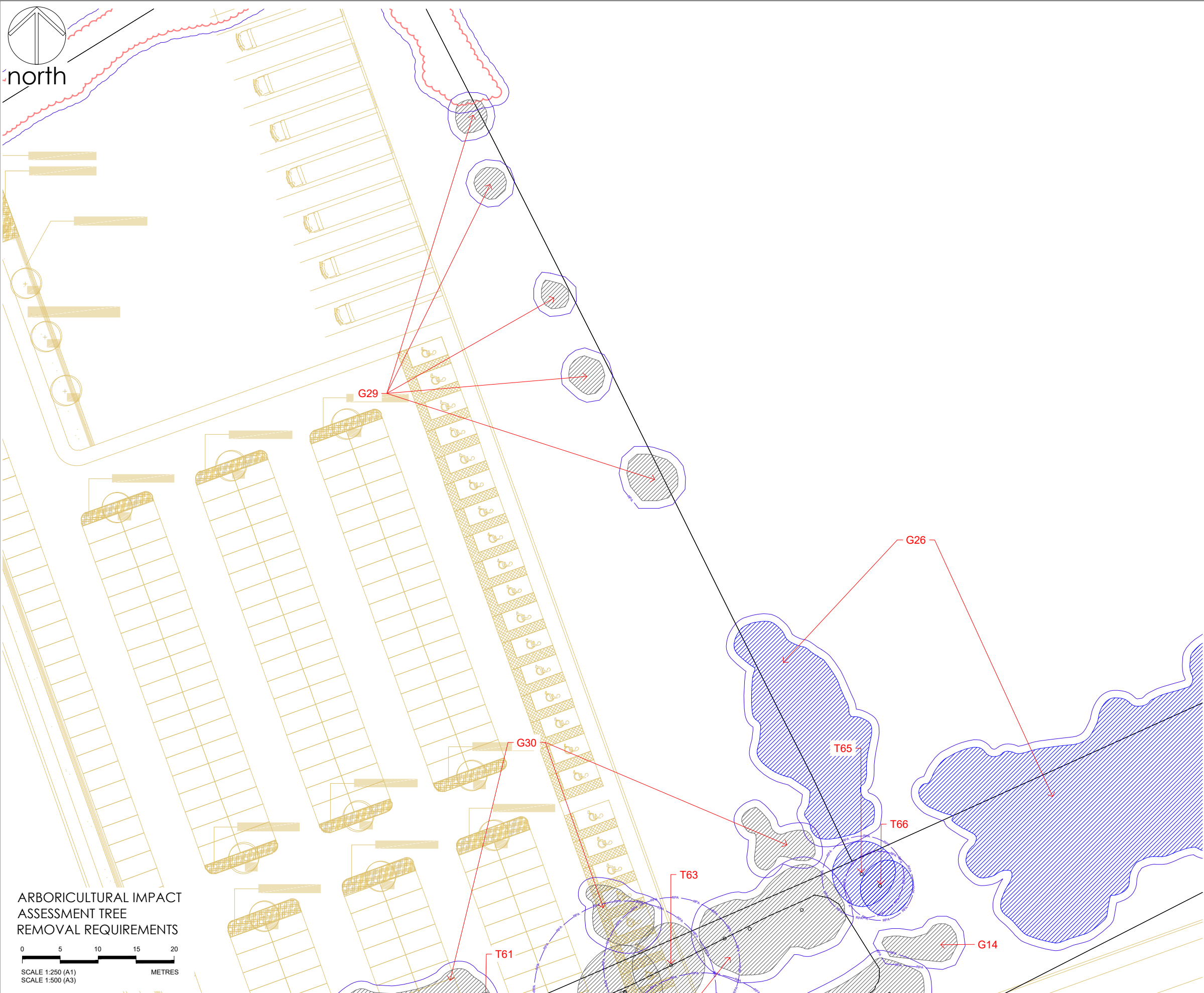
Scale 1:250 @ A1 / 1:500 @ A3

Date 03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



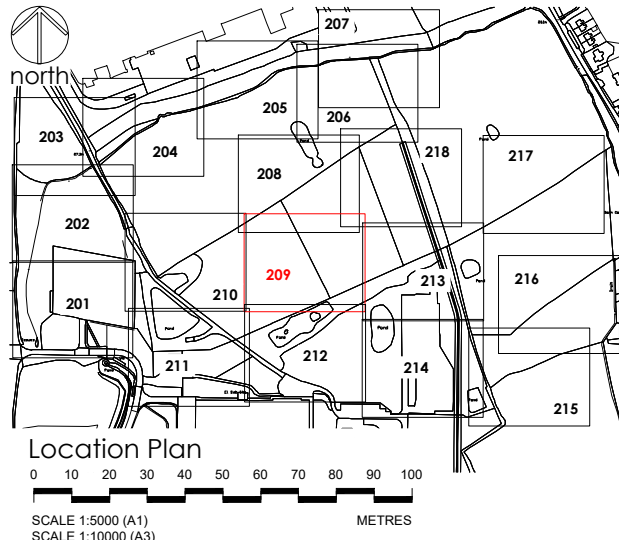
mdlandscape
6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231



ARBORICULTURAL IMPACT
ASSESSMENT TREE
REMOVAL REQUIREMENTS

0 5 10 15 20
SCALE 1:250 (A1) METRES
SCALE 1:500 (A3)

- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour.
- CATEGORY A - high quality tree / woodland / group to be retained
 - CATEGORY B - moderate quality tree / woodland / group to be retained
 - CATEGORY C - low quality tree / woodland / group to be retained
 - CATEGORY U - unsuitable for retention
 - HEDGE - to be retained
 - ROOT PROTECTION AREA (RPA)
 - T, G, W, V REFERENCE - tree, group, woodland potential veteran tree retained
 - PROPOSED DEVELOPMENT
 - ASSESSMENT EXTENTS
 - CATEGORY A - high quality tree / woodland / group to be removed
 - CATEGORY B - moderate quality tree / woodland / group to be removed
 - CATEGORY C - low quality tree / woodland / group to be removed
 - CATEGORY U - unsuitable for retention to be removed
 - HEDGE - to be removed
 - T1 REFERENCE - tree, group, woodland to be removed

Drawing references	
274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
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274/T/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
274/T/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
274/T/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
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274/T/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
274/T/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
274/T/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
274/T/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

OS LICENCE

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/209
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 9 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

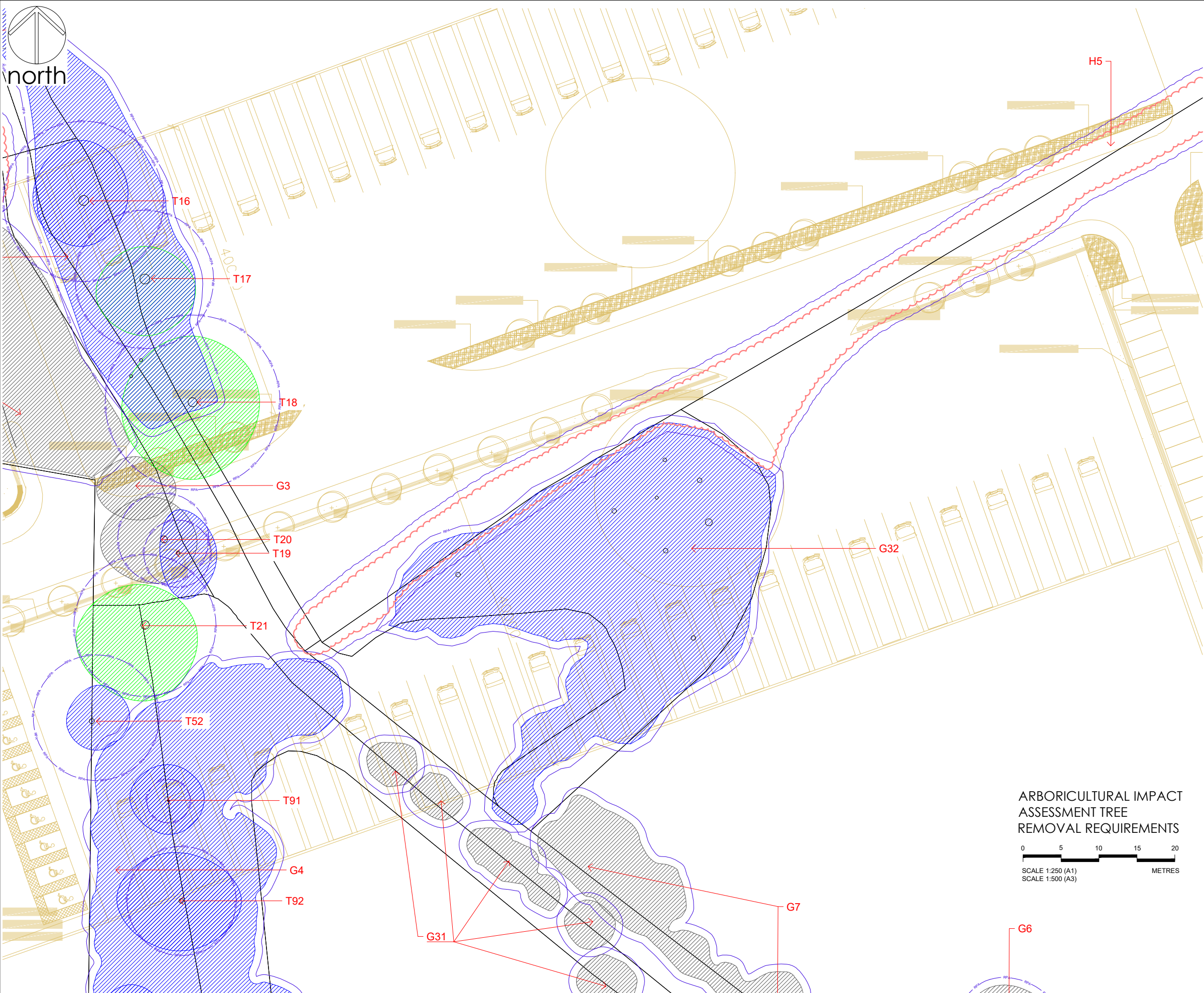
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

Chartered
Member
of the
Landscape
Institute

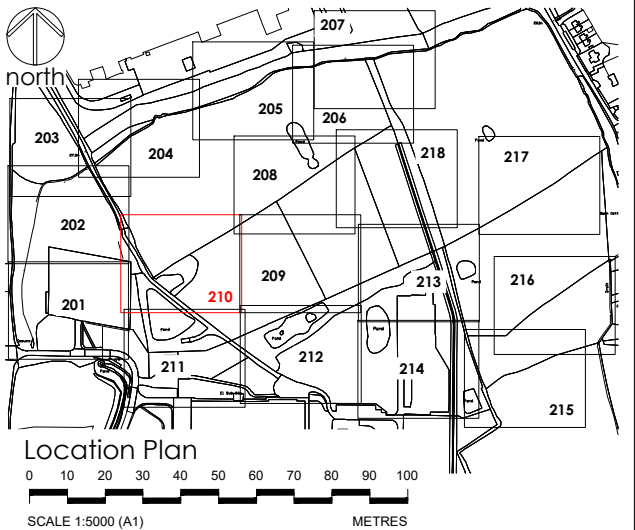
Landscape
Institute
Registered
Practice

Arboricultural
Association
Endorsed Member

mdlandscape
6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.

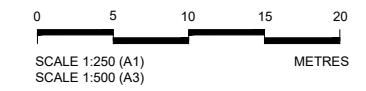


Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

		CATEGORY A - high quality tree / woodland / group to be retained
		CATEGORY B - moderate quality tree / woodland / group to be retained
		CATEGORY C - low quality tree / woodland / group to be retained
		CATEGORY U - unsuitable for retention
		HEDGE - to be retained
		ROOT PROTECTION AREA (RPA)
		REFERENCE - tree, group, woodland potential veteran tree retained
		PROPOSED DEVELOPMENT
		ASSESSMENT EXTENTS
		CATEGORY A - high quality tree / woodland / group to be removed
		CATEGORY B - moderate quality tree / woodland / group to be removed
		CATEGORY C - low quality tree / woodland / group to be removed
		CATEGORY U - unsuitable for retention to be removed
		HEDGE - to be removed
		REFERENCE - tree, group, woodland to be removed

ARBORICULTURAL IMPACT
ASSESSMENT TREE
REMOVAL REQUIREMENTS



Drawing references	
274/I/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/I/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/I/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/I/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/I/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
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274/I/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/I/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

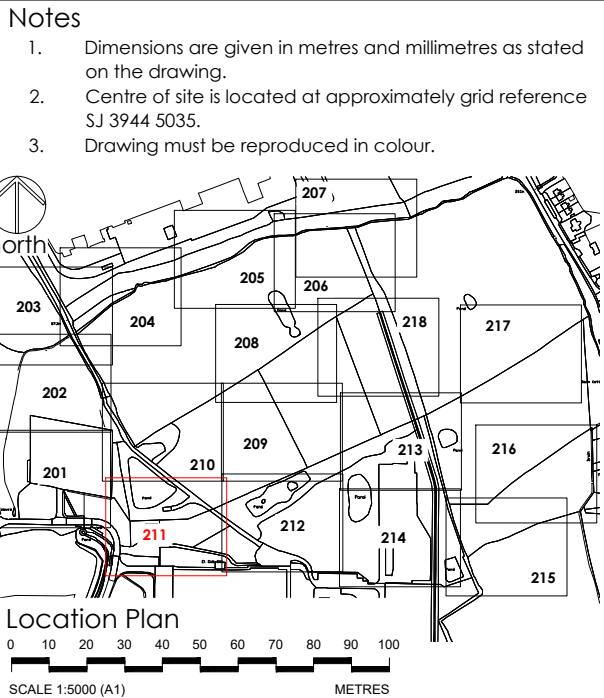
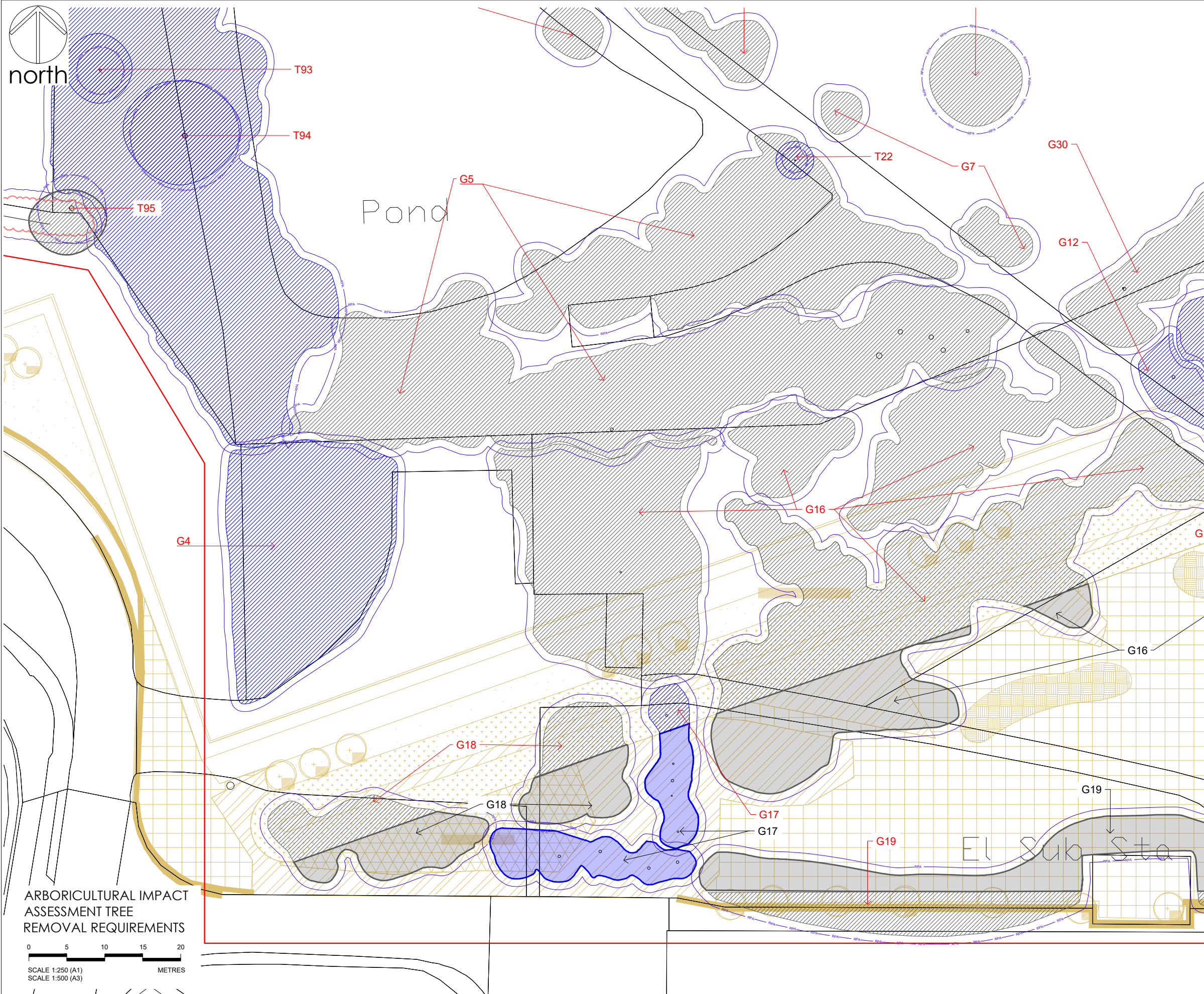
OS LICENCE

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Project KINGMOOR WREXHAM INDUSTRIAL ESTATE		Dwg No 274/T/210		Revision P01	Date 03/05/2023	Details FOR INFORMATION	Drawn MD	Checked	Reviewed MD
Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 10 OF 18		Scale 1:250 @ A1 / 1:500 @ A3		Date 03/05/2023					

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Cheshire | WA16 6LZ | 07710 498231

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Arboricultural Association Registered Member



Drawing references	
274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
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274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

OS LICENCE

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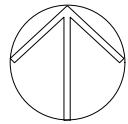
mdlandscape

Chartered Member of the Landscape Institute
Landscape Institute Registered Practitioner
Arboricultural Association Professional Member

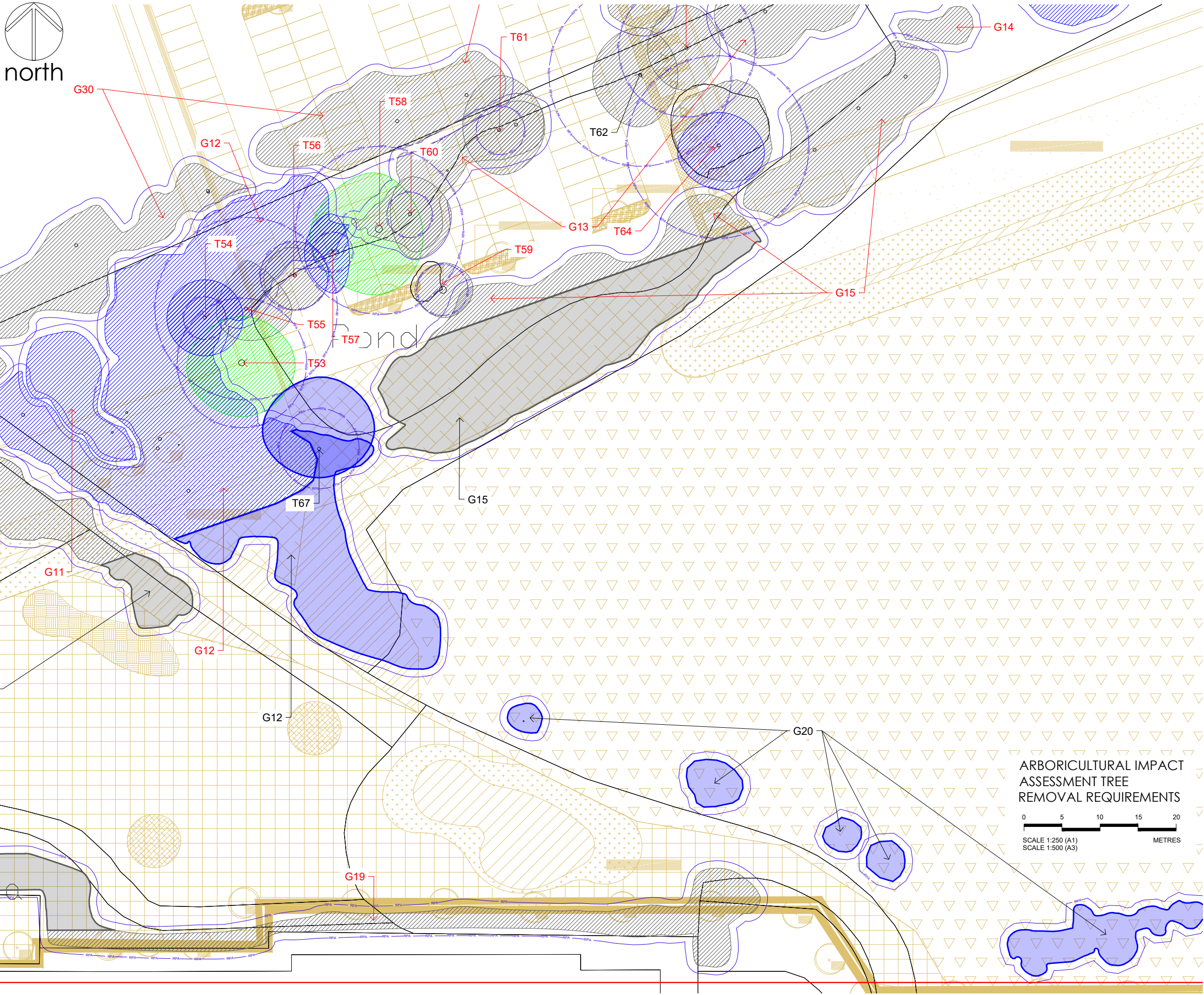
mdlandscape
6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/211
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 11 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

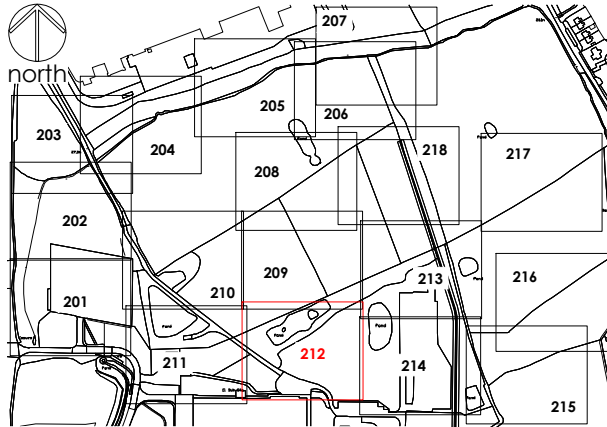


north



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group to be retained
- CATEGORY B - moderate quality tree / woodland / group to be retained
- CATEGORY C - low quality tree / woodland / group to be retained
- CATEGORY U - unsuitable for retention
- HEDGE - to be retained
- ROOT PROTECTION AREA (RPA)
- T.G. W.V. REFERENCE - tree, group, woodland potential veteran tree retained
- PROPOSED DEVELOPMENT
- ASSESSMENT EXTENTS
- CATEGORY A - high quality tree / woodland / group to be removed
- CATEGORY B - moderate quality tree / woodland / group to be removed
- CATEGORY C - low quality tree / woodland / group to be removed
- CATEGORY U - unsuitable for retention to be removed
- HEDGE - to be removed
- REFERENCE - tree, group, woodland to be removed

ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL REQUIREMENTS



Drawing references	
274/I/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/I/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/I/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
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274/I/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

OS LICENCE

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/212

Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL
SHEET 12 OF 18

Scale
1:250 @ A1 / 1:500 @ A3

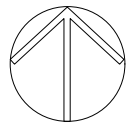
Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

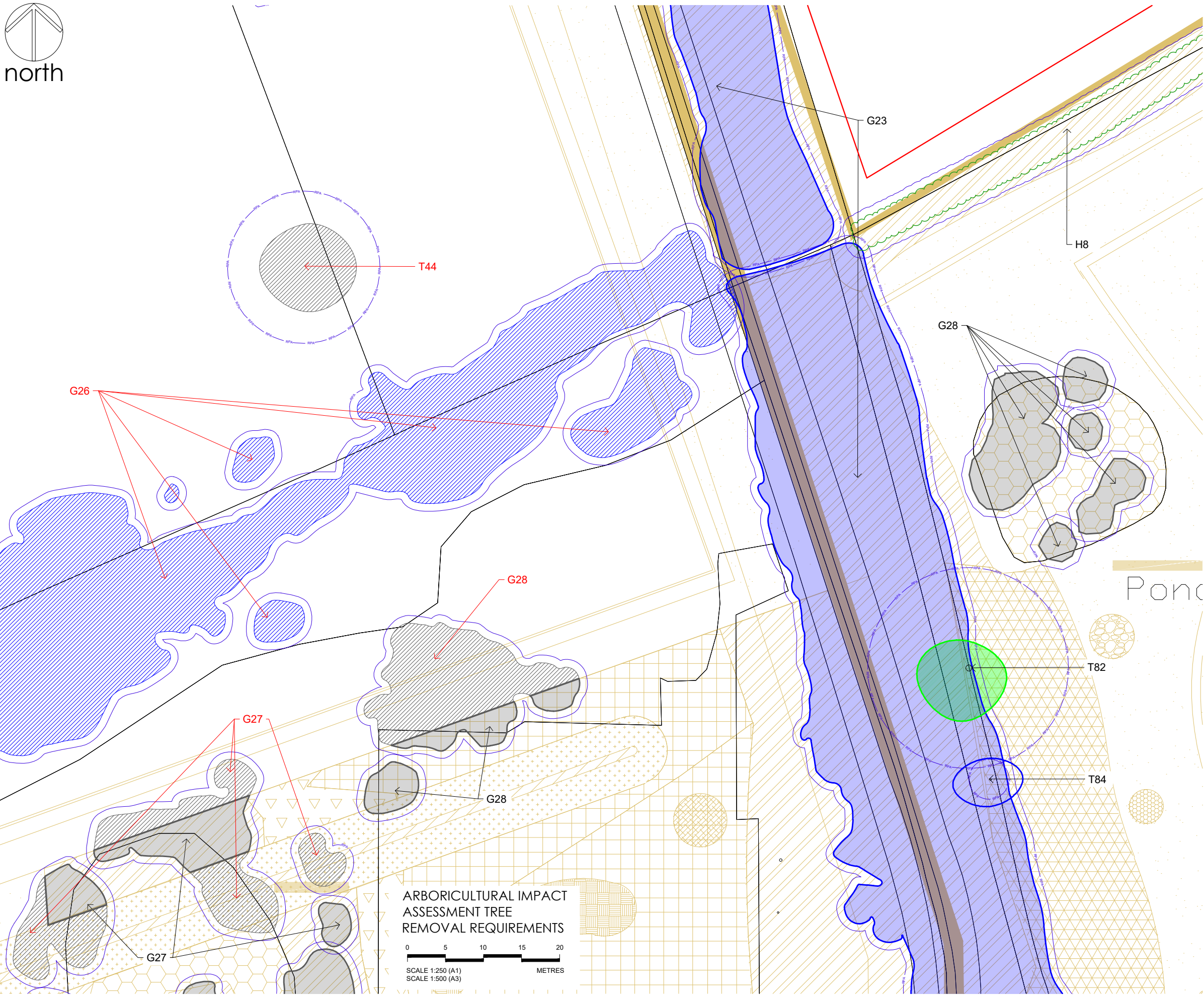


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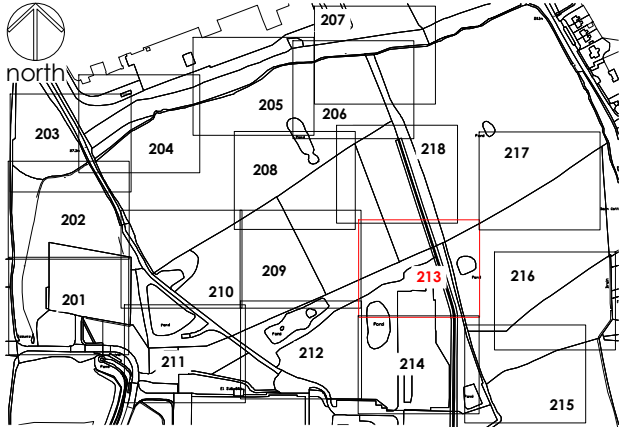


north



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100
METRES
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour

- CATEGORY A - high quality tree / woodland / group to be retained
- CATEGORY B - moderate quality tree / woodland / group to be retained
- CATEGORY C - low quality tree / woodland / group to be retained
- CATEGORY U - unsuitable for retention
- HEDGE - to be retained
- ROOT PROTECTION AREA (RPA)
- T, G, W, V REFERENCE - tree, group, woodland potential veteran tree retained
- PROPOSED DEVELOPMENT
- ASSESSMENT EXTENTS
- CATEGORY A - high quality tree / woodland / group to be removed
- CATEGORY B - moderate quality tree / woodland / group to be removed
- CATEGORY C - low quality tree / woodland / group to be removed
- CATEGORY U - unsuitable for retention to be removed
- HEDGE - to be removed
- T REFERENCE - tree, group, woodland to be removed

Drawing references

274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
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274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/213

Title ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL
SHEET 13 OF 18

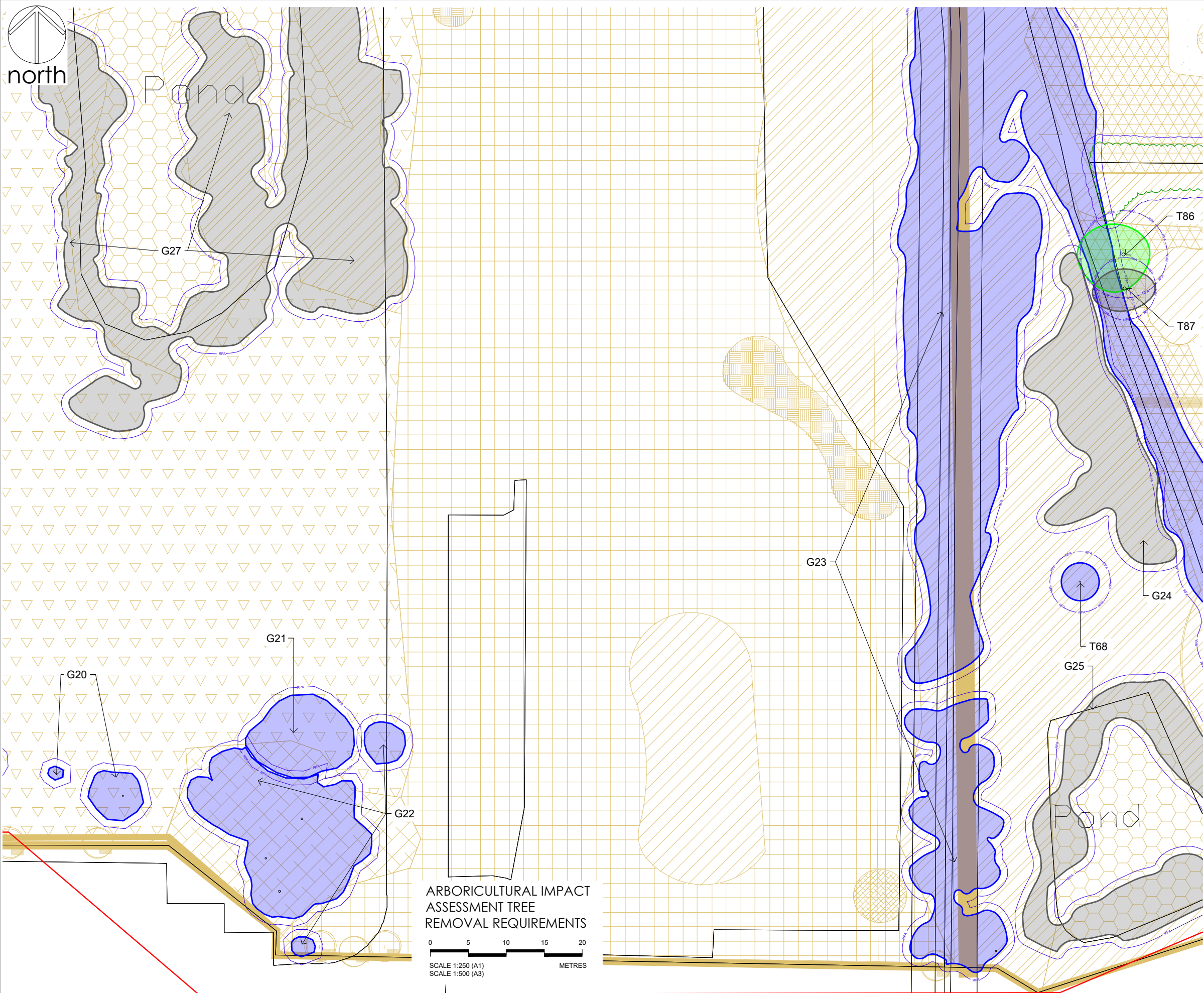
Scale
1:250 @ A1 / 1:500 @ A3

Date
03/05/2023

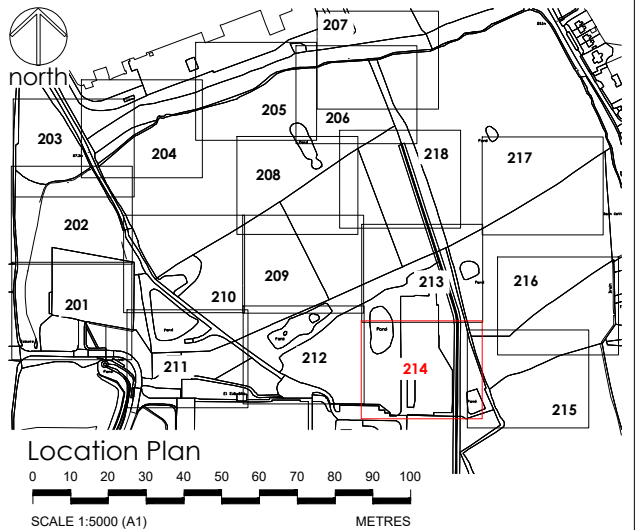
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231



- Notes**
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



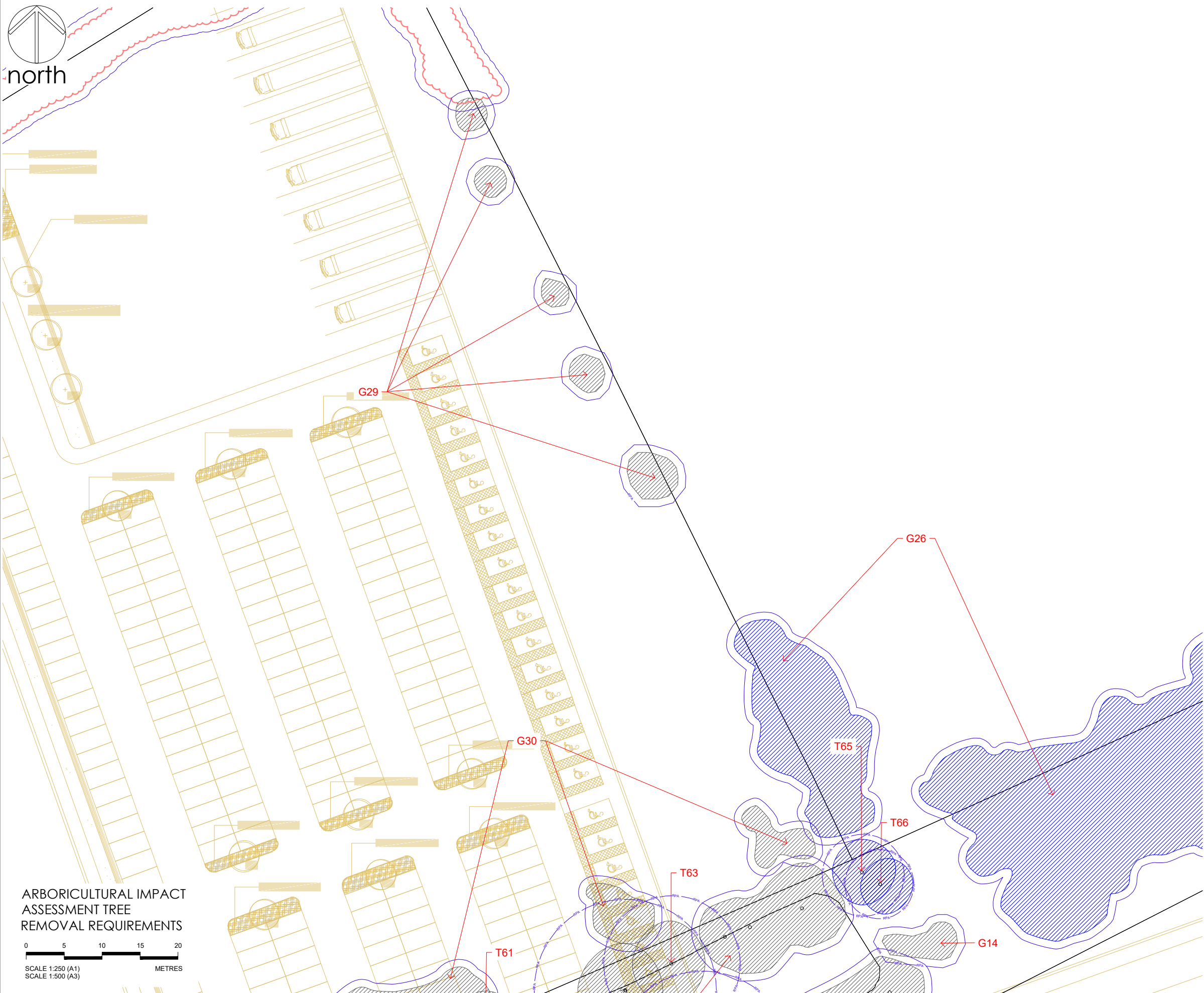
- Legend**
- Trees categorised in accordance with BS5837:2012 trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group to be retained
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 - CATEGORY C - low quality tree / woodland / group to be removed
 - CATEGORY U - unsuitable for retention to be removed
 - HEDGE - to be removed
 - T1 REFERENCE - tree, group, woodland to be removed

Drawing references

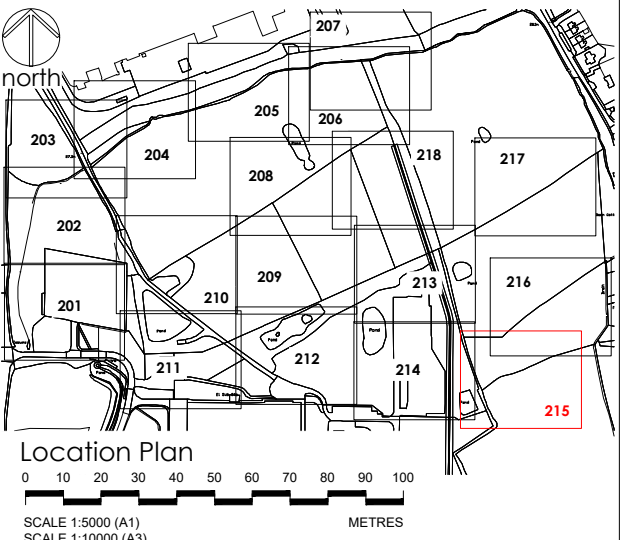
27/4/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
27/4/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
27/4/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
27/4/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
27/4/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
27/4/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
27/4/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
27/4/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
27/4/1/208	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 8 OF 18
27/4/1/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
27/4/1/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
27/4/1/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
27/4/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
27/4/1/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
27/4/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
27/4/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
27/4/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
27/4/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/214	Revision	Date	Details	Drawn	Checked	Reviewed
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 14 OF 18	Scale	1:250 @ A1 / 1:500 @ A3		03/05/2023	FOR INFORMATION	MD		MD



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour

		CATEGORY A - high quality tree / woodland / group to be retained
		CATEGORY B - moderate quality tree / woodland / group to be retained
		CATEGORY C - low quality tree / woodland / group to be retained
		CATEGORY U - unsuitable for retention
		HEDGE - to be retained
		ROOT PROTECTION AREA (RPA)
		REFERENCE - tree, group, woodland potential veteran tree retained
		PROPOSED DEVELOPMENT
		ASSESSMENT EXTENTS
		CATEGORY A - high quality tree / woodland / group to be removed
		CATEGORY B - moderate quality tree / woodland / group to be removed
		CATEGORY C - low quality tree / woodland / group to be removed
		CATEGORY U - unsuitable for retention to be removed
		HEDGE - to be removed
		REFERENCE - tree, group, woodland to be removed

Drawing references	
274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/T/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
274/T/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
274/T/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
274/T/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
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274/T/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
274/T/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
274/T/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
274/T/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
274/T/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
274/T/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
274/T/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

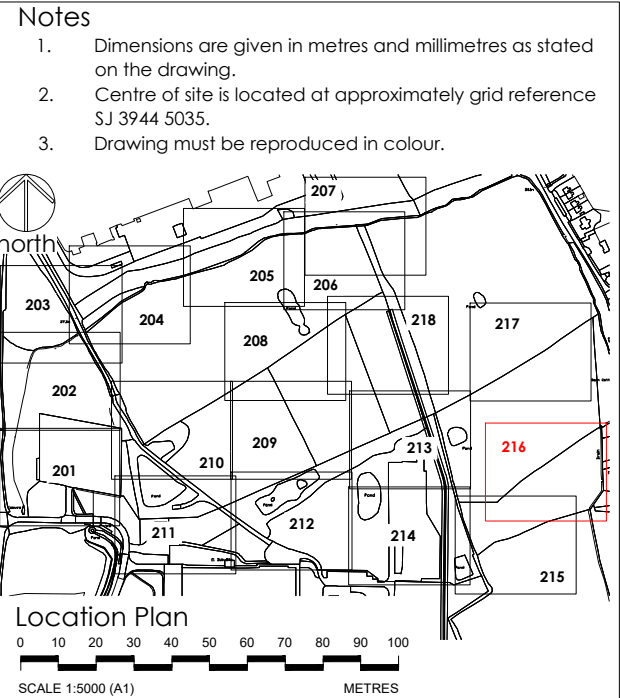
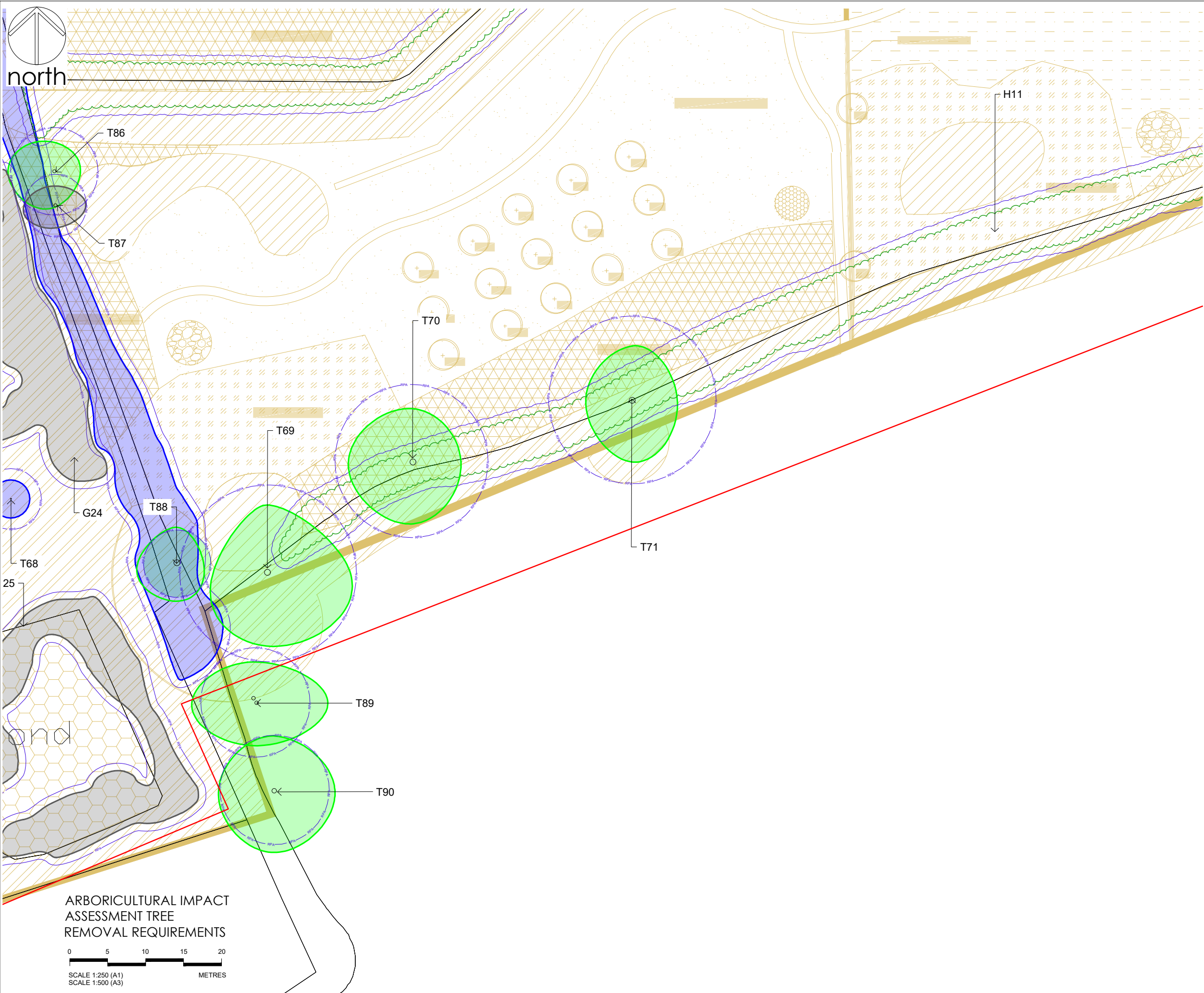
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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/215
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 15 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

		CATEGORY A - high quality tree / woodland / group to be retained
		CATEGORY B - moderate quality tree / woodland / group to be retained
		CATEGORY C - low quality tree / woodland / group to be retained
		CATEGORY U - unsuitable for retention
		HEDGE - to be retained
		ROOT PROTECTION AREA (RPA)
		REFERENCE - tree, group, woodland potential veteran tree retained
		PROPOSED DEVELOPMENT
		ASSESSMENT EXTENTS
		CATEGORY A - high quality tree / woodland / group to be removed
		CATEGORY B - moderate quality tree / woodland / group to be removed
		CATEGORY C - low quality tree / woodland / group to be removed
		CATEGORY U - unsuitable for retention to be removed
		HEDGE - to be removed
		REFERENCE - tree, group, woodland to be removed

Drawing references	
27/4/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
27/4/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
27/4/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
27/4/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
27/4/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
27/4/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
27/4/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
27/4/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
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27/4/1/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
27/4/1/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
27/4/1/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
27/4/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
27/4/1/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
27/4/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
27/4/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
27/4/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18
27/4/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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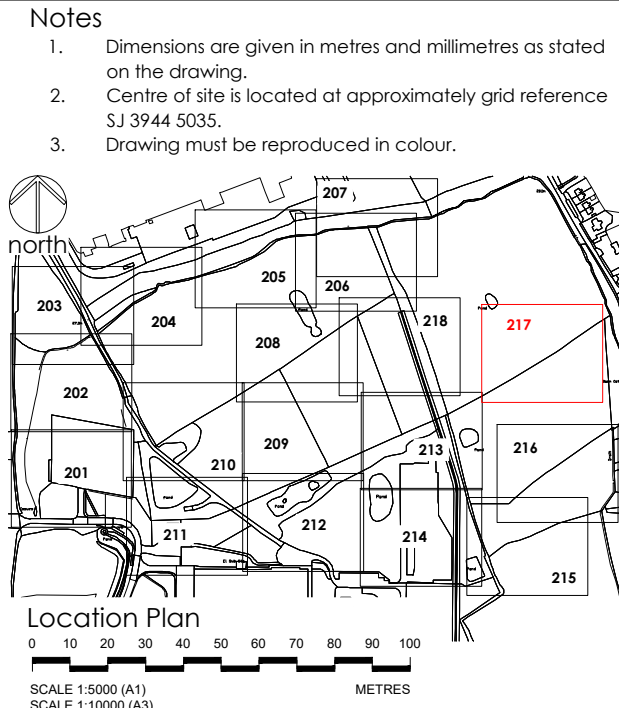
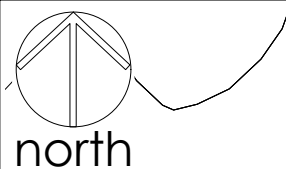
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Landscape Institute

Arboricultural Association

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/216
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 16 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

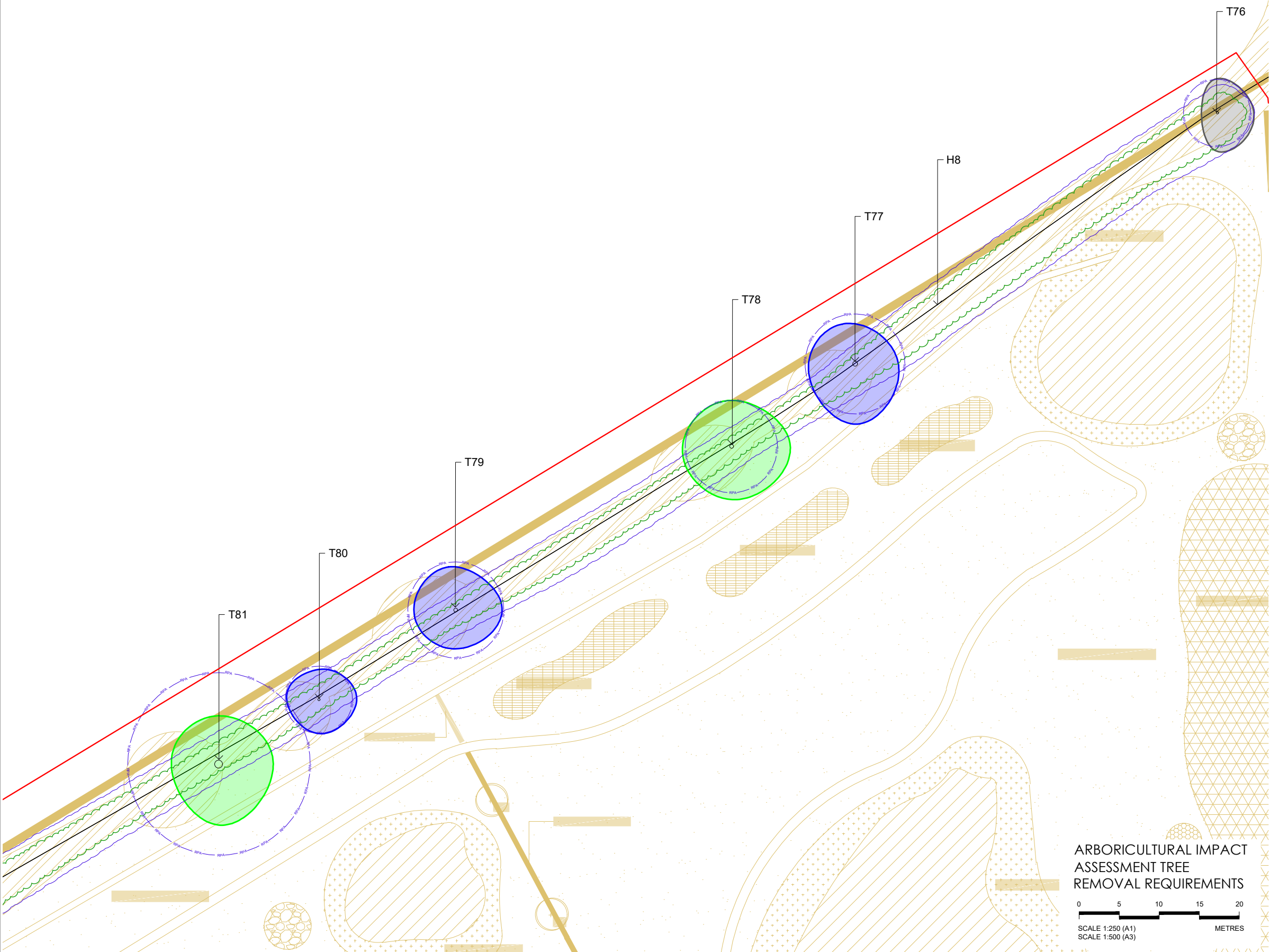
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour

	CATEGORY A - high quality tree / woodland / group to be retained
	CATEGORY B - moderate quality tree / woodland / group to be retained
	CATEGORY C - low quality tree / woodland / group to be retained
	CATEGORY U - unsuitable for retention
	HEDGE - to be retained
	ROOT PROTECTION AREA (RPA)
	REFERENCE - tree, group, woodland potential veteran tree retained
	PROPOSED DEVELOPMENT
	ASSESSMENT EXTENTS
	CATEGORY A - high quality tree / woodland / group to be removed
	CATEGORY B - moderate quality tree / woodland / group to be removed
	CATEGORY C - low quality tree / woodland / group to be removed
	CATEGORY U - unsuitable for retention to be removed
	HEDGE - to be removed
	REFERENCE - tree, group, woodland to be removed



ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL REQUIREMENTS
0 5 10 15 20
METRES
SCALE 1:250 (A1)
SCALE 1:500 (A3)

Drawing references

27/4/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
27/4/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
27/4/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
27/4/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
27/4/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
27/4/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
27/4/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
27/4/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
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27/4/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
27/4/1/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
27/4/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
27/4/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
27/4/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
27/4/1/218	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 18 OF 18

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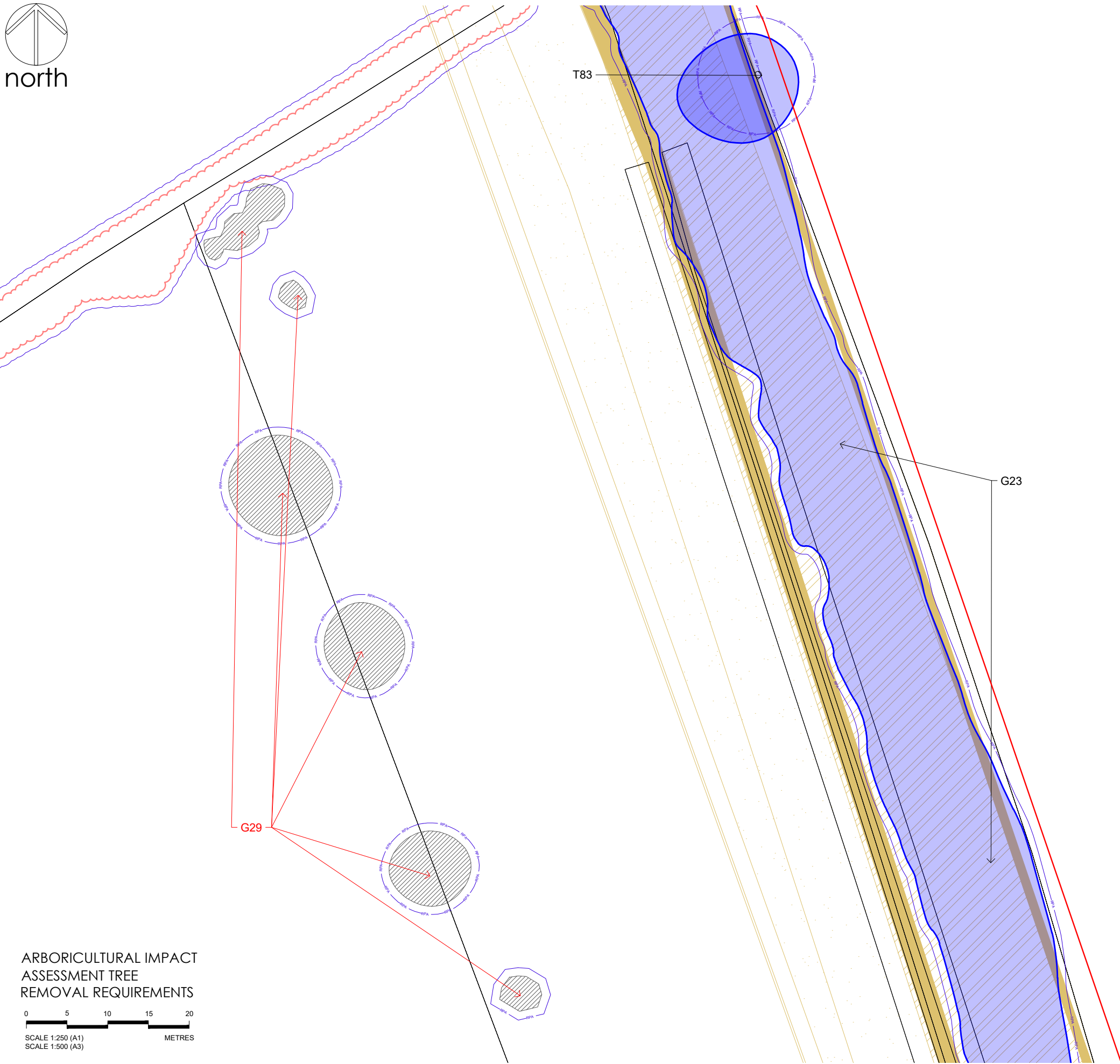
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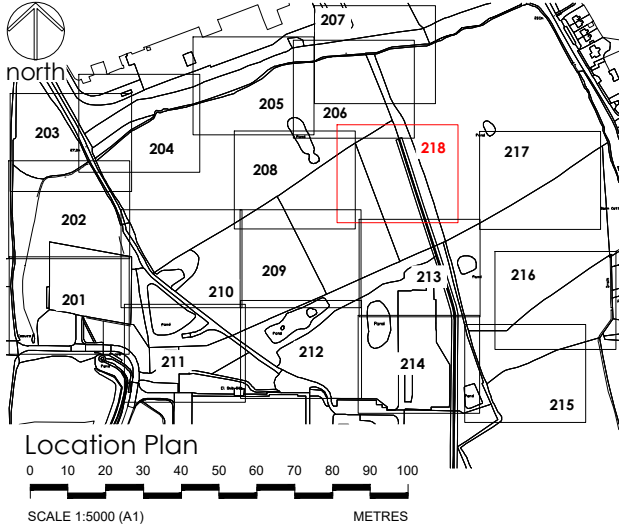
Arboricultural Association

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/217
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 17 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- CATEGORY A - high quality tree / woodland / group to be retained
 - CATEGORY B - moderate quality tree / woodland / group to be retained
 - CATEGORY C - low quality tree / woodland / group to be retained
 - CATEGORY U - unsuitable for retention
 - HEDGE - to be retained
 - ROOT PROTECTION AREA (RPA)
 - T, G, W, V REFERENCE - tree, group, woodland potential veteran tree retained
 - PROPOSED DEVELOPMENT
 - ASSESSMENT EXTENTS
 - CATEGORY A - high quality tree / woodland / group to be removed
 - CATEGORY B - moderate quality tree / woodland / group to be removed
 - CATEGORY C - low quality tree / woodland / group to be removed
 - CATEGORY U - unsuitable for retention to be removed
 - HEDGE - to be removed
 - T1 REFERENCE - tree, group, woodland to be removed

Drawing references	
274/T/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
274/T/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
274/T/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
274/T/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
274/T/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
274/T/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
274/T/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
274/T/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
274/T/208	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 8 OF 18
274/T/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
274/T/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
274/T/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
274/T/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
274/T/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
274/T/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
274/T/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
274/T/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
274/T/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18

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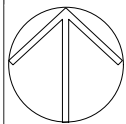
Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/218
Title	ARBORICULTURAL IMPACT ASSESSMENT TREE REMOVAL SHEET 18 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

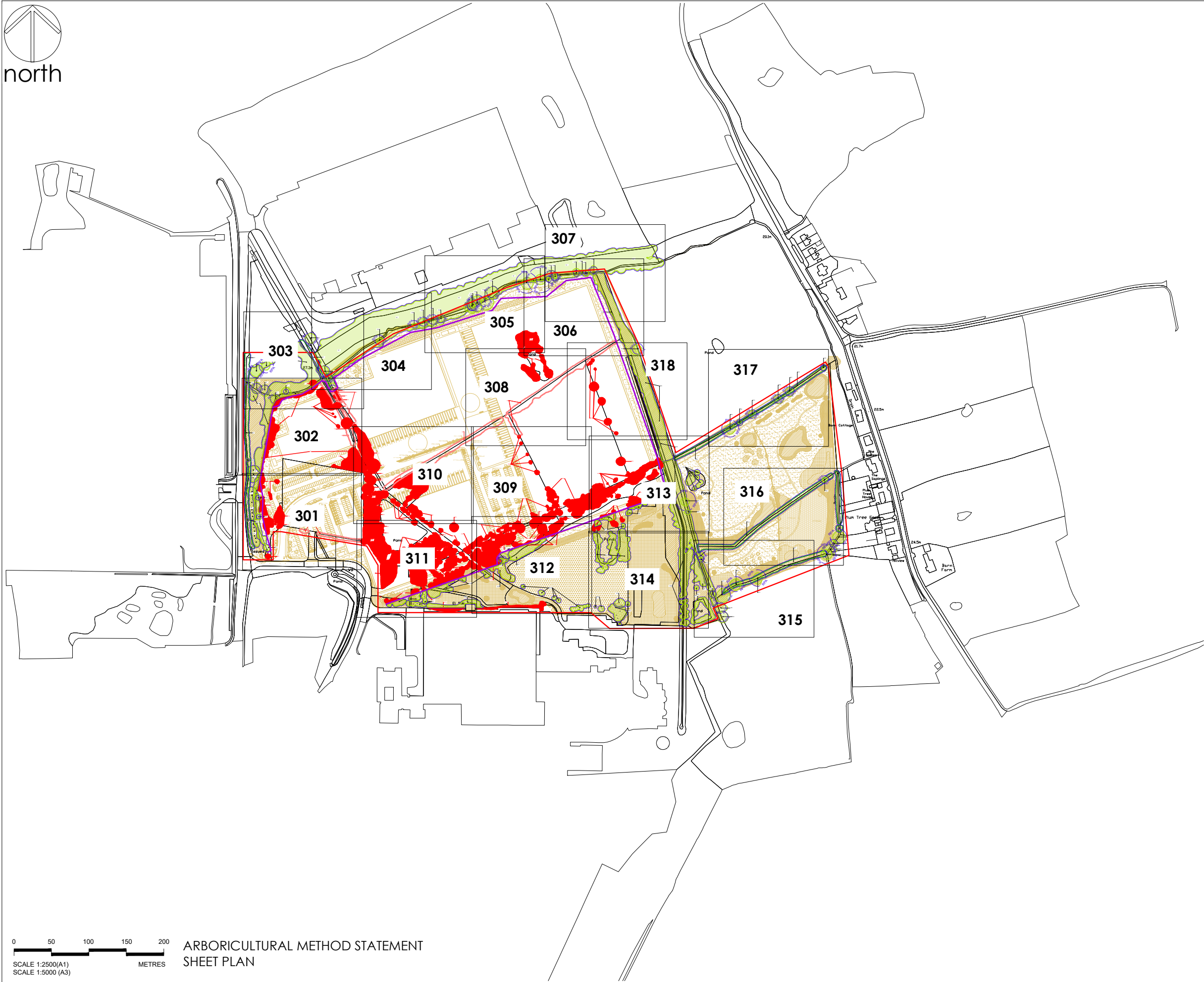


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north



Notes

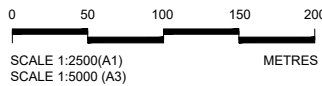
1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



north



Location Plan
not to scale



SCALE 1:2500 (A1)
SCALE 1:5000 (A3)

ARBORICULTURAL METHOD STATEMENT
SHEET PLAN

Drawing references	
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/I/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/I/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/I/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/I/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/I/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/I/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/300

Title ARBORICULTURAL METHOD STATEMENT
SHEET PLAN

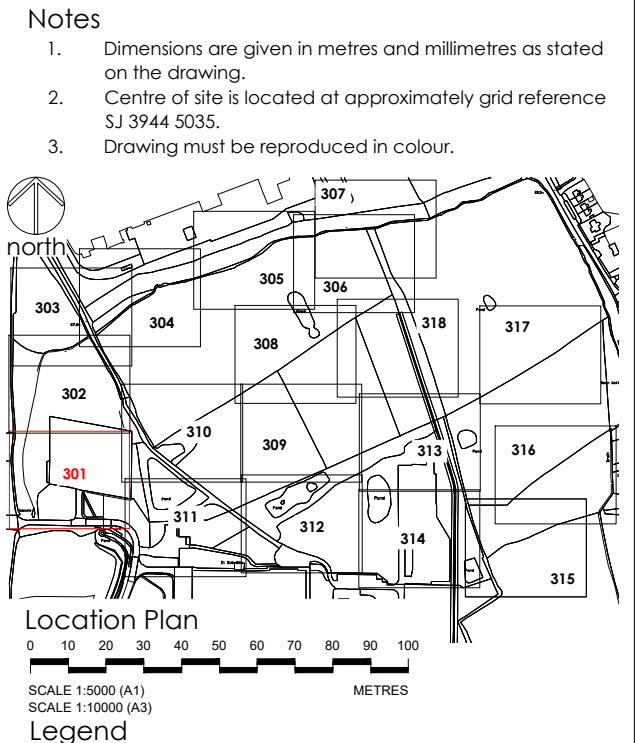
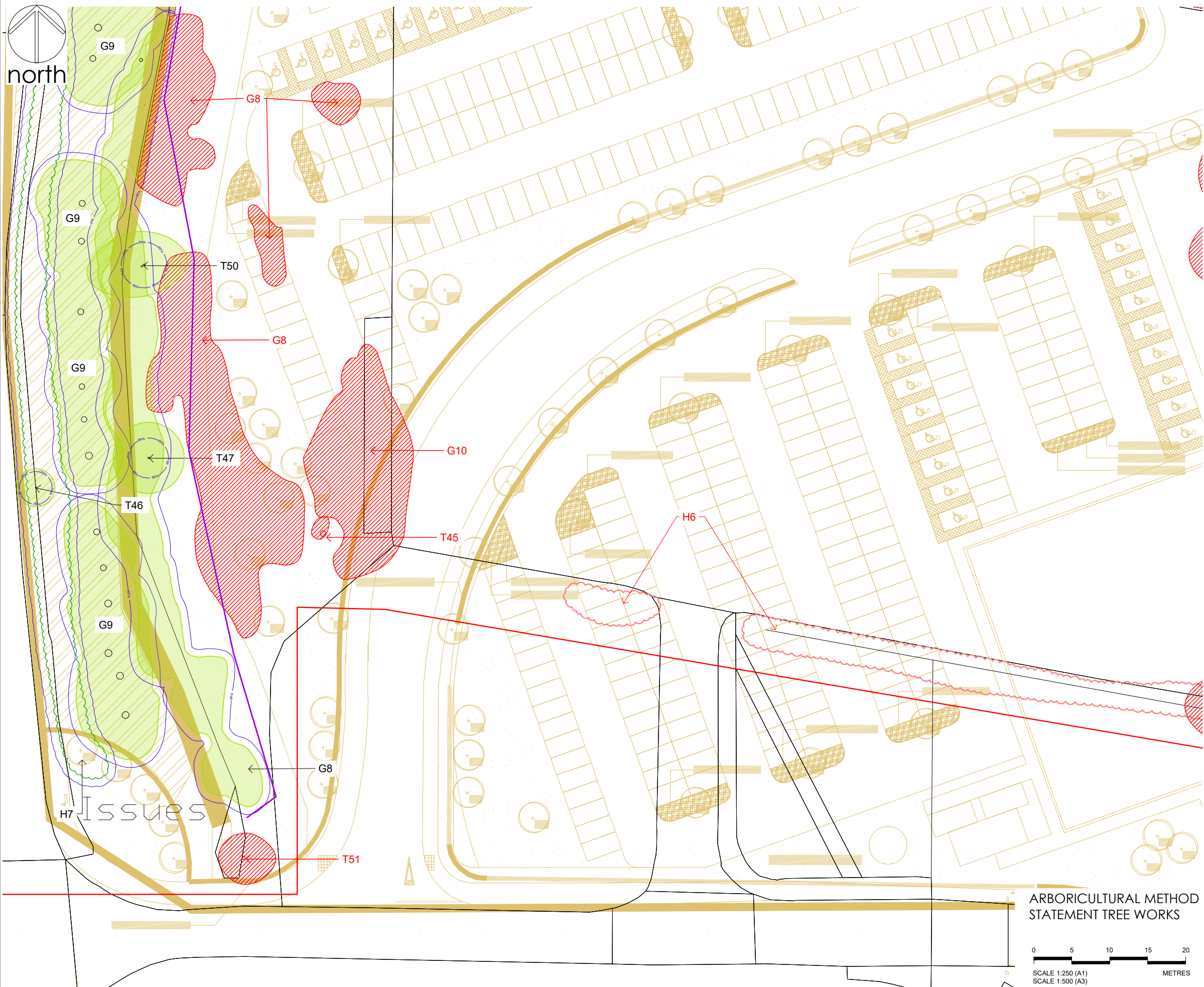
Scale
1:2500 @ A1 / 1:5000 @ A3

Date
30/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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Drawing references

274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
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274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

ARBORICULTURAL METHOD STATEMENT TREE WORKS



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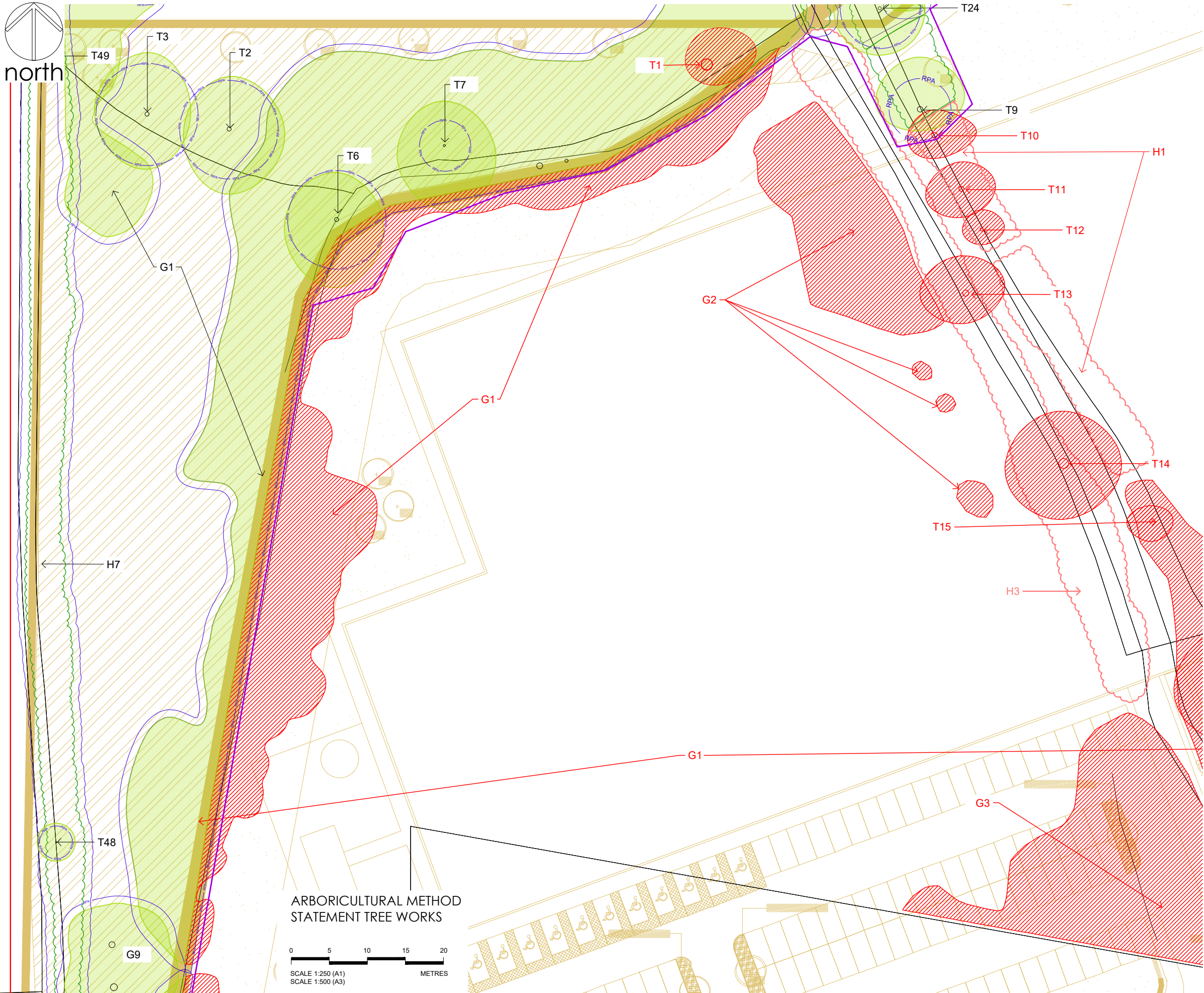
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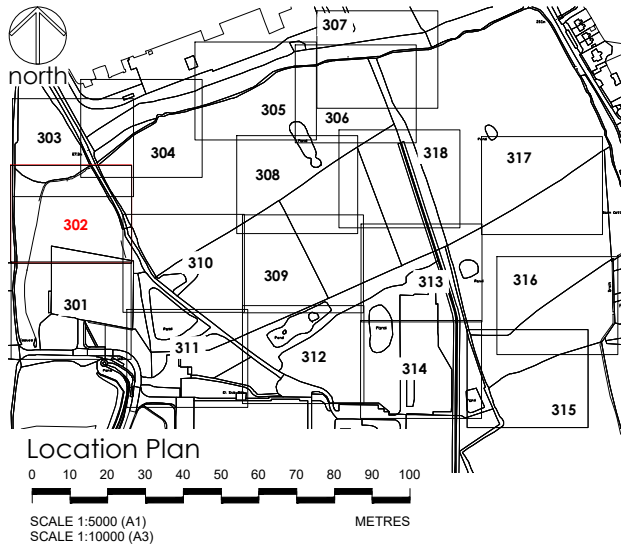
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Cheshire | WA16 6LZ | 07710 498231

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/301
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 1 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour
- TREES TO BE RETAINED
 - TREES TO BE REMOVED
 - HEDGE TO BE RETAINED
 - HEDGE TO BE REMOVED
 - REFERENCE - tree, group, woodland RETAINED
 - REFERENCE - tree, group, woodland REMOVED
 - ROOT PROTECTION AREA (RPA)
 - PROPOSED DEVELOPMENT
 - TEMPORARY TREE PROTECTION FENCE
 - ASSESSMENT EXTENTS

Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

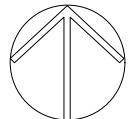
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Cheshire | WA16 6LZ | 07710 498231

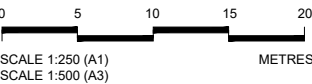
Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/302	Scale	1:250 @ A1 / 1:500 @ A3	Date	03/05/2023
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS						
	SHEET 2 OF 18						

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



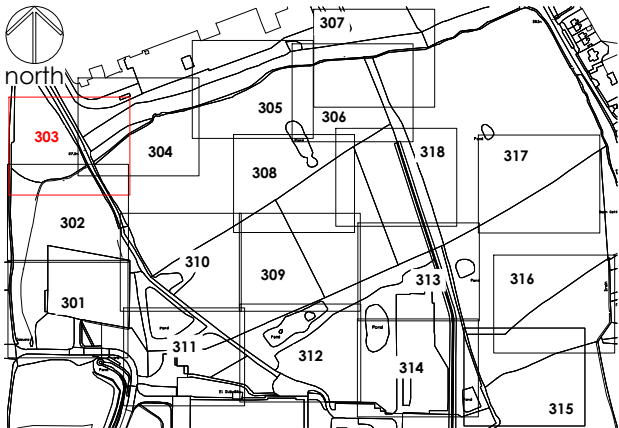
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ARBORICULTURAL METHOD
STATEMENT TREE WORKS

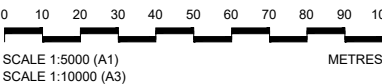


Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

Drawing references

274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/303

Title ARBORICULTURAL METHOD STATEMENT TREE WORKS
SHEET 3 OF 18

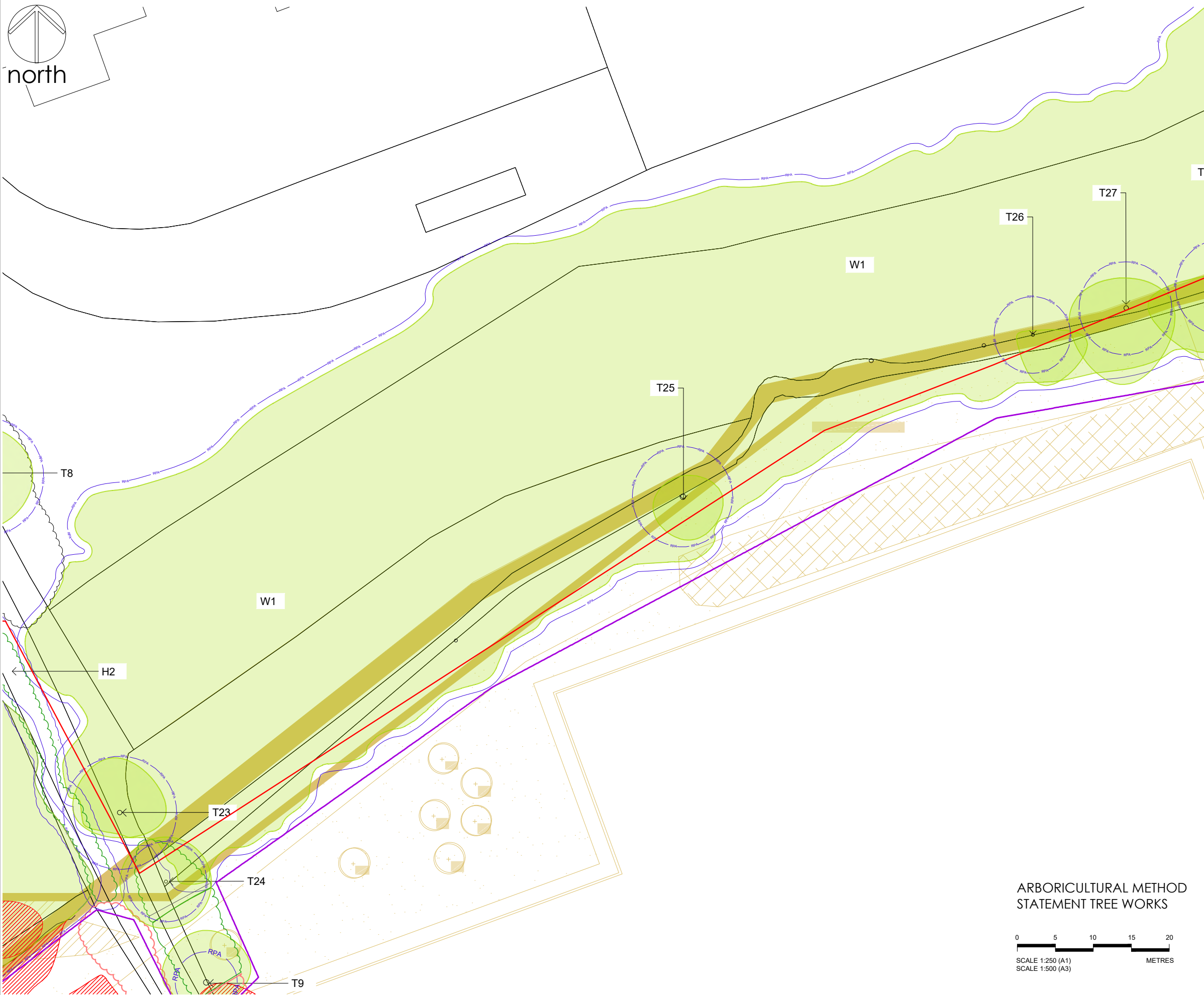
Scale
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Date
03/05/2023

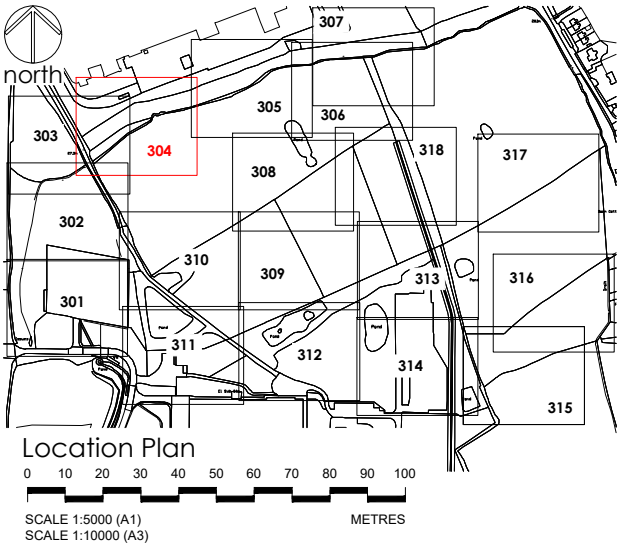
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour
- TREES TO BE RETAINED
 - TREES TO BE REMOVED
 - HEDGE TO BE RETAINED
 - HEDGE TO BE REMOVED
 - REFERENCE - tree, group, woodland RETAINED
 - REFERENCE - tree, group, woodland REMOVED
 - ROOT PROTECTION AREA (RPA)
 - PROPOSED DEVELOPMENT
 - TEMPORARY TREE PROTECTION FENCE
 - ASSESSMENT EXTENTS

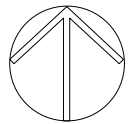
Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/304	
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 4 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date 03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

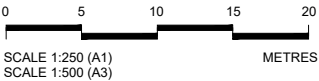
mdlandscape
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Cheshire | WA16 6LZ | 07710 498231



north

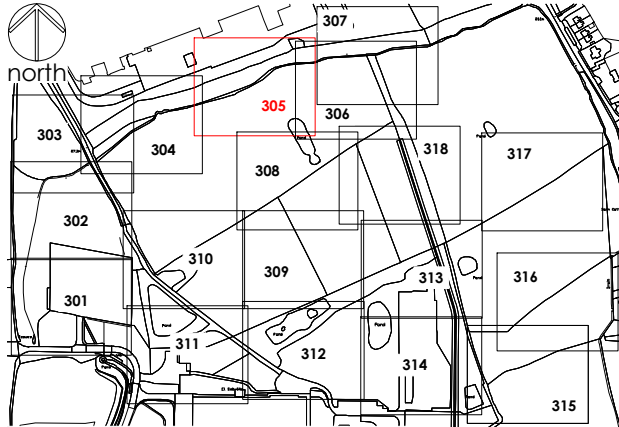


ARBORICULTURAL METHOD
STATEMENT TREE WORKS



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3) METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

Drawing references

274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

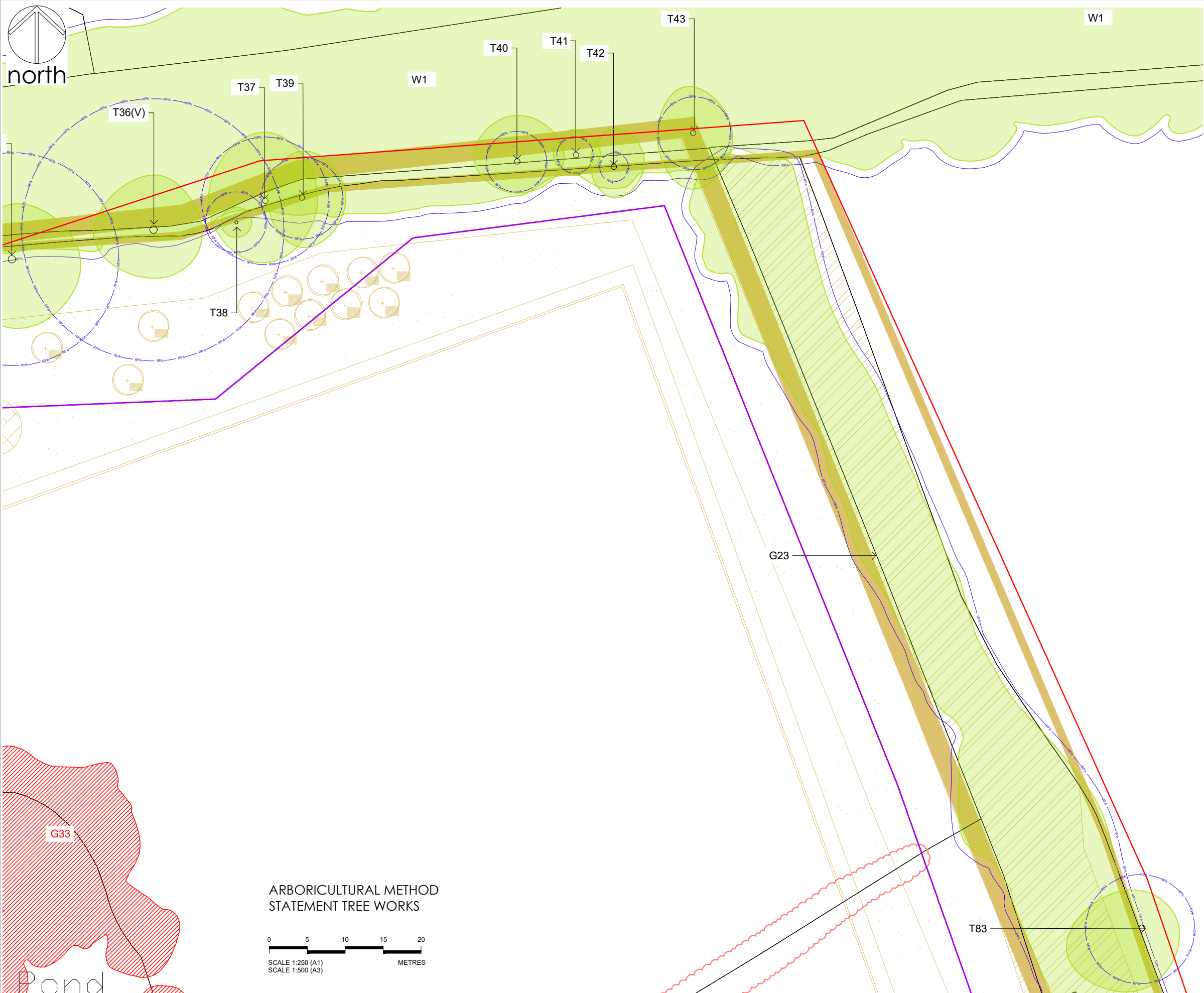
Dwg No
274/T/305

Title ARBORICULTURAL METHOD STATEMENT TREE WORKS
SHEET 5 OF 18

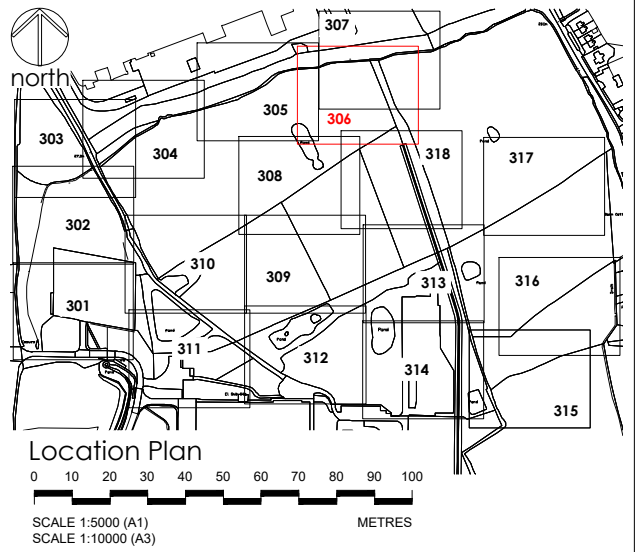
Scale
1:250 @ A1 / 1:500 @ A3

Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour.

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/306
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 6 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

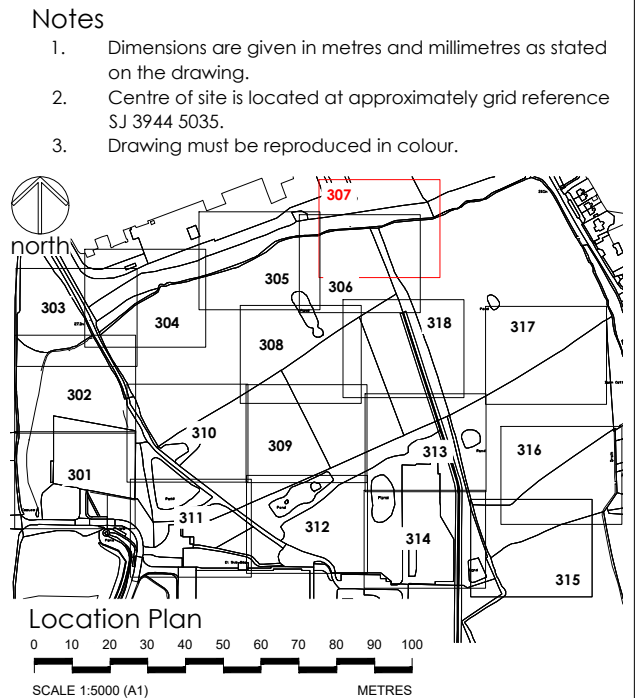
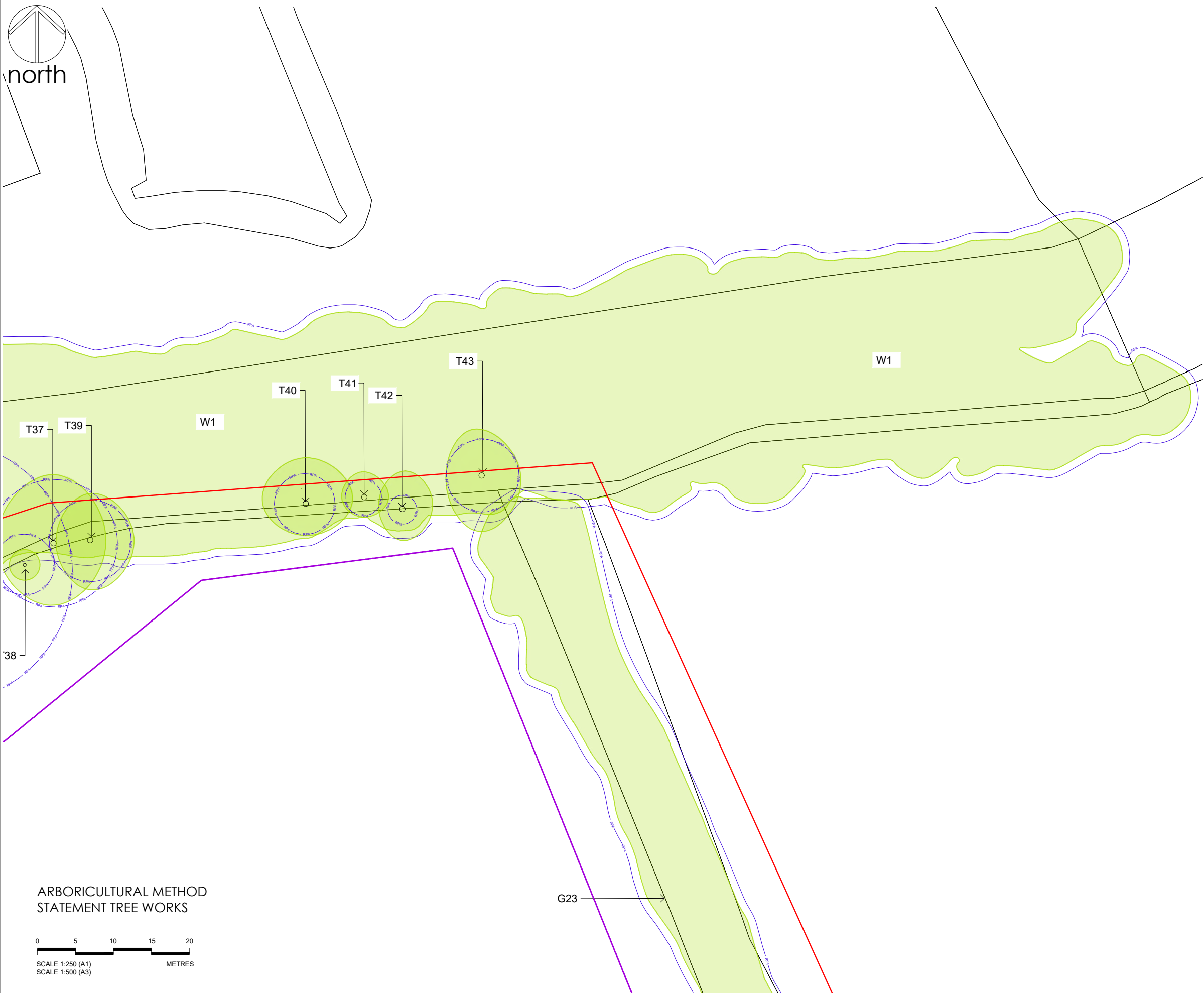
Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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Landscape
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Registered
Practice

Arboricultural
Association
Registered
Member

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Cheshire | WA16 6LZ | 07710 498231



- Notes**
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.
- Legend**
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour
- TREES TO BE RETAINED
 - TREES TO BE REMOVED
 - HEDGE TO BE RETAINED
 - HEDGE TO BE REMOVED
 - REFERENCE - tree, group, woodland RETAINED
 - REFERENCE - tree, group, woodland REMOVED
 - ROOT PROTECTION AREA (RPA)
 - PROPOSED DEVELOPMENT
 - TEMPORARY TREE PROTECTION FENCE
 - ASSESSMENT EXTENTS

Drawing references	
274/I/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/I/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/I/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/I/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/I/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/I/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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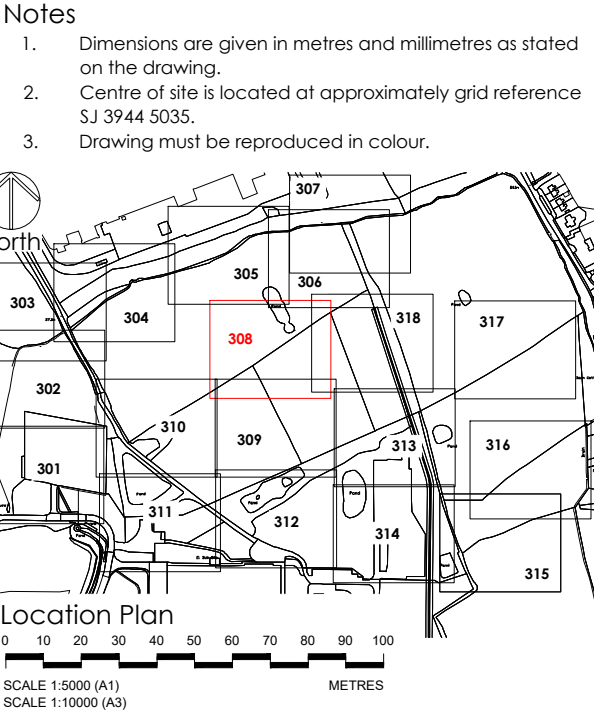
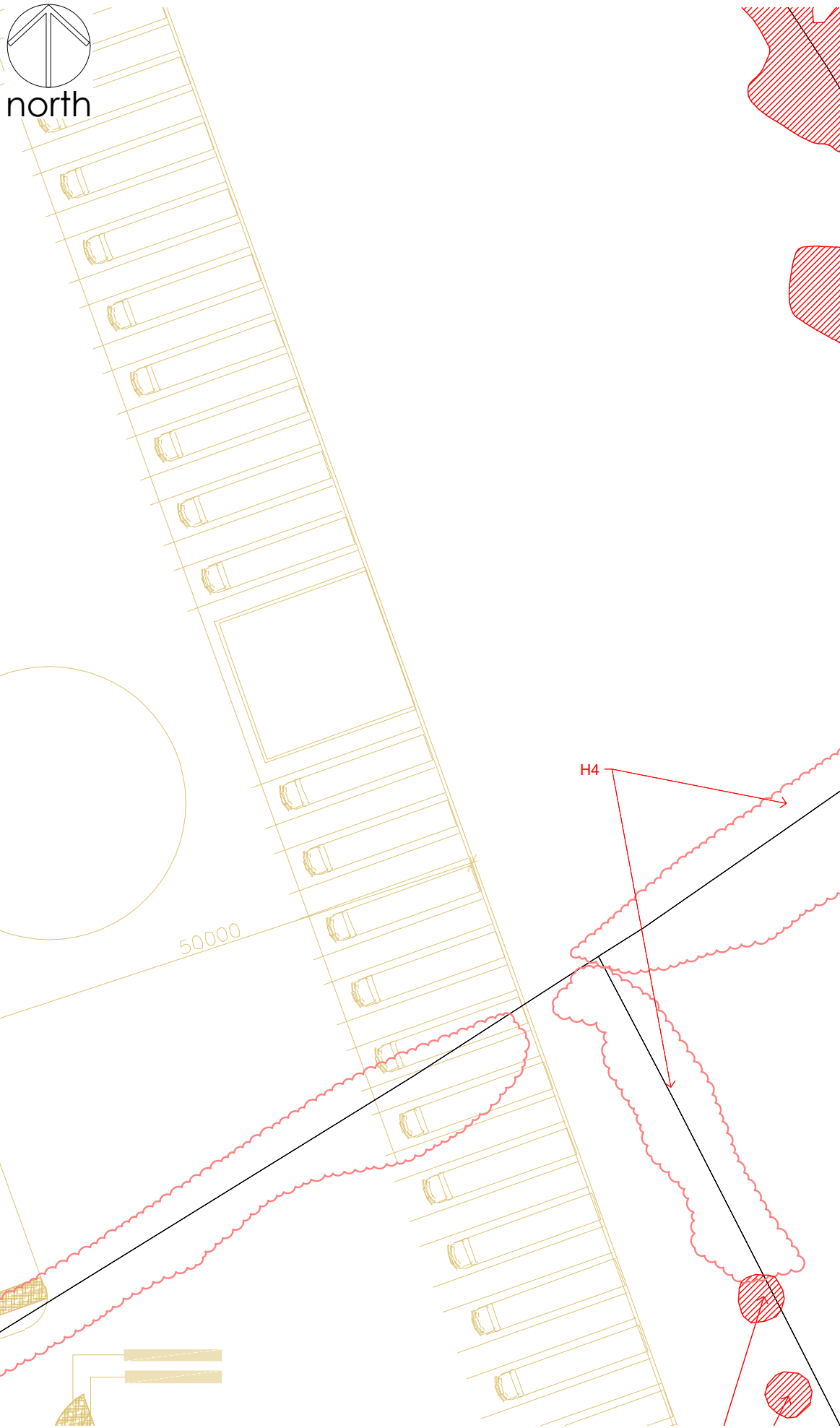
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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/307
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 7 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

Drawing references	
274/I/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/I/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/I/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/I/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/I/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/I/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

ARBORICULTURAL METHOD STATEMENT TREE WORKS



Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/308		
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 8 OF 18	Scale	1:250 @ A1 / 1:500 @ A3		Date 03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

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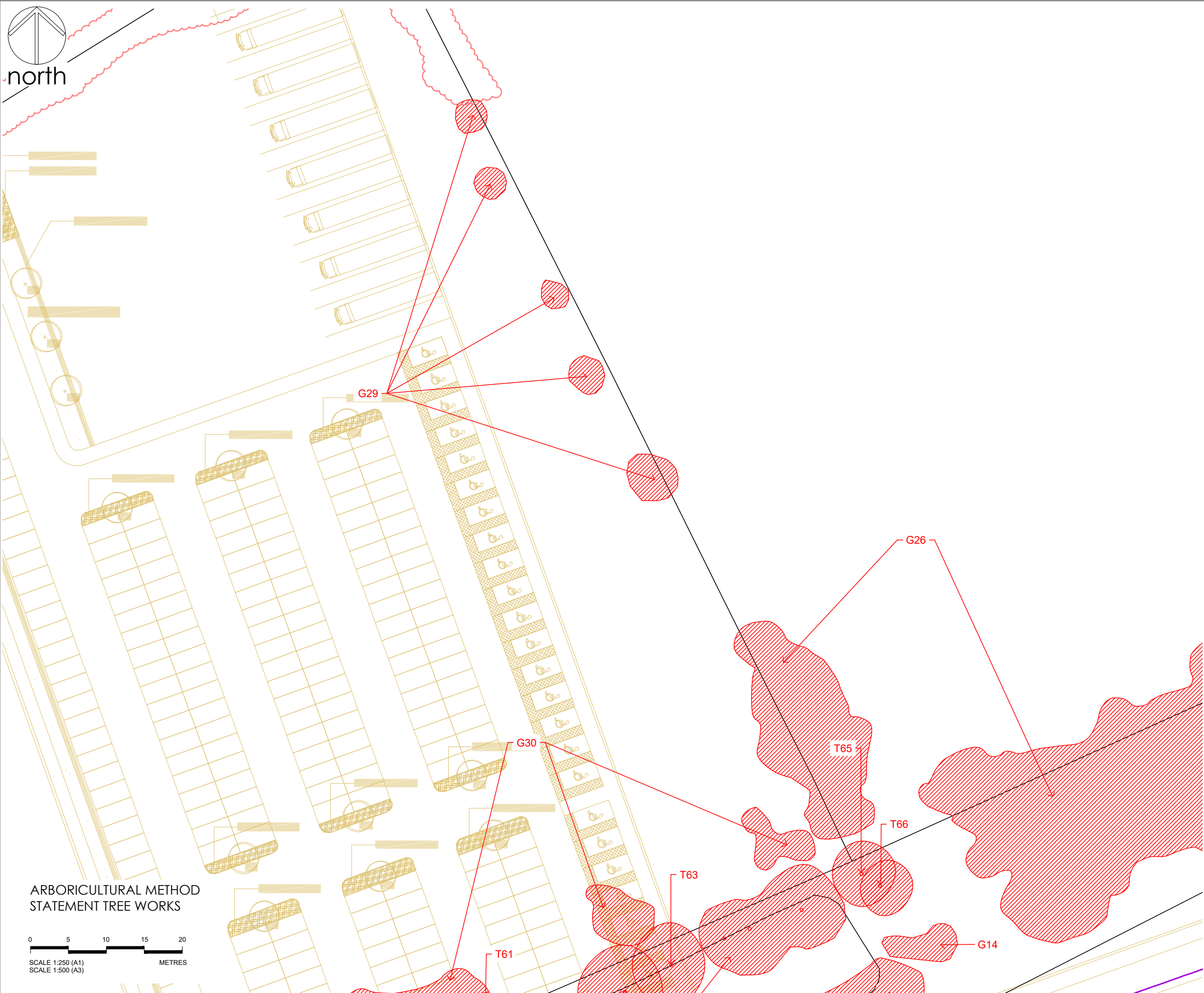
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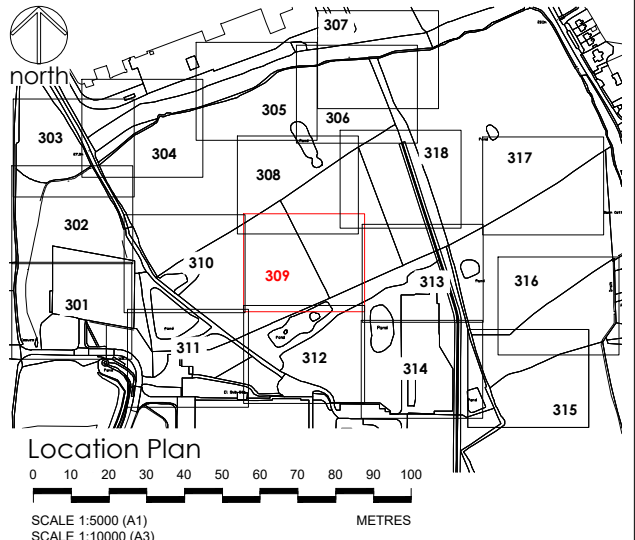
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Landscape Institute Registered Practice

Arboricultural Association Professional Member



- Notes**
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend**
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- TREES TO BE RETAINED
 - TREES TO BE REMOVED
 - HEDGE TO BE RETAINED
 - HEDGE TO BE REMOVED
 - REFERENCE - tree, group, woodland RETAINED
 - REFERENCE - tree, group, woodland REMOVED
 - ROOT PROTECTION AREA (RPA)
 - PROPOSED DEVELOPMENT
 - TEMPORARY TREE PROTECTION FENCE
 - ASSESSMENT EXTENTS

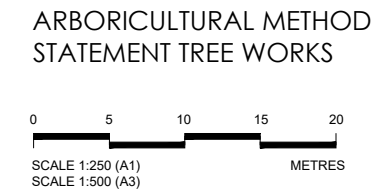
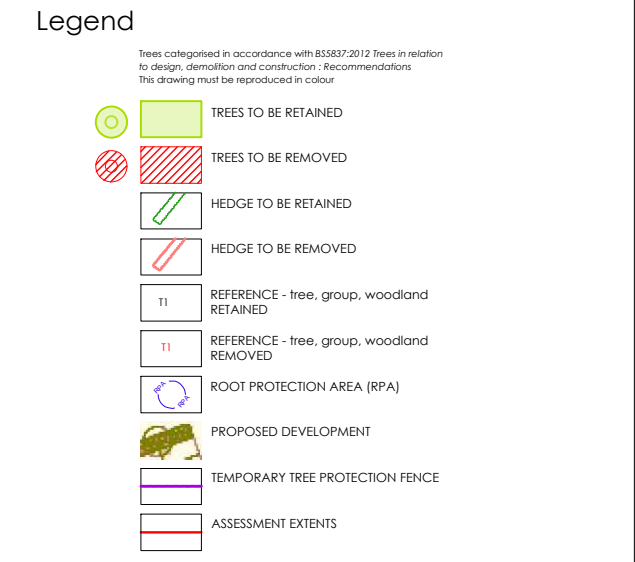
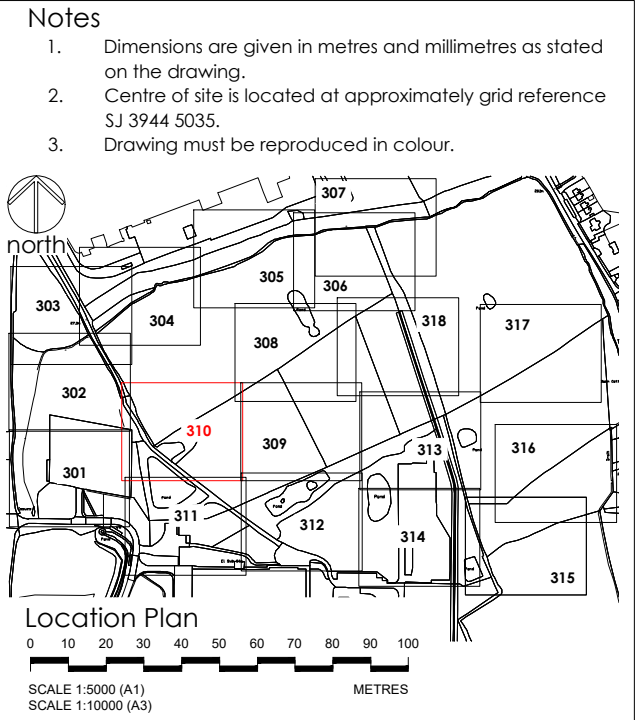
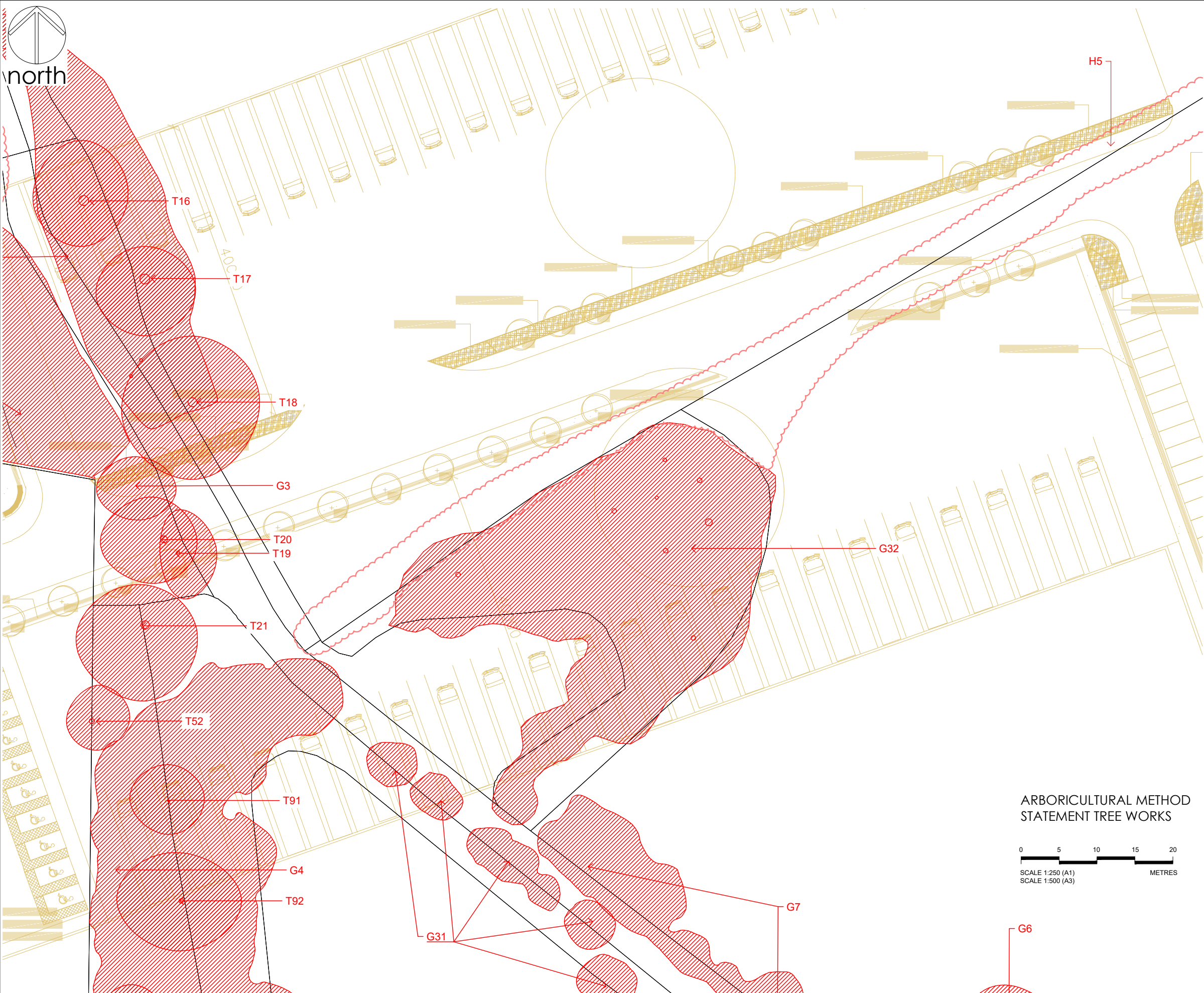
Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project KINGMOOR WREXHAM INDUSTRIAL ESTATE		Dwg No 274/T/309		Revision P01	Date 03/05/2023	Details FOR INFORMATION	Drawn MD	Checked	Reviewed MD
Title ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 9 OF 18		Scale 1:250 @ A1 / 1:500 @ A3		Date 03/05/2023					

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Cheshire | WA16 6LZ | 07710 498231

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Drawing references	
274/I/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/I/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/I/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/I/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/I/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/I/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

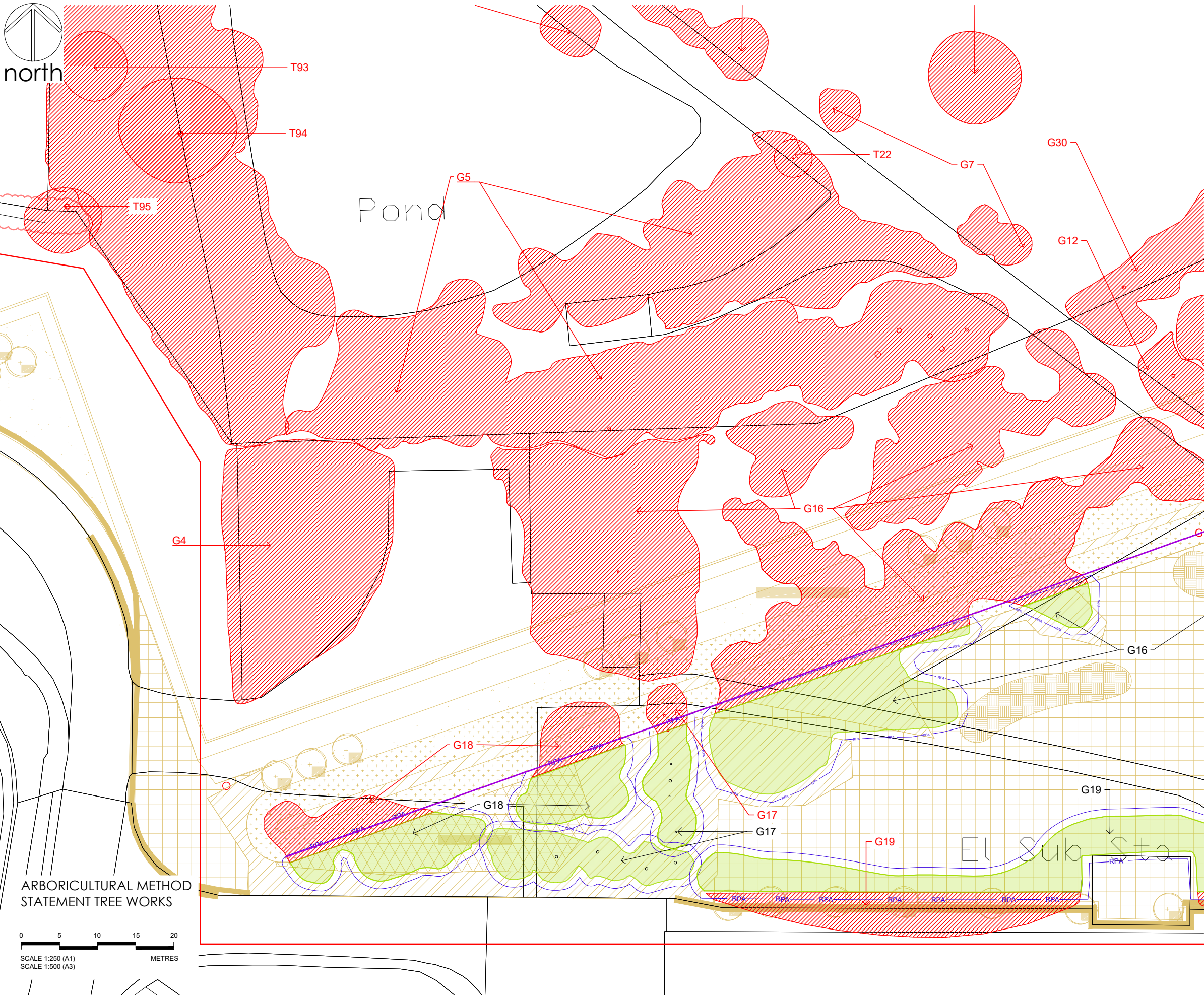
OS LICENCE

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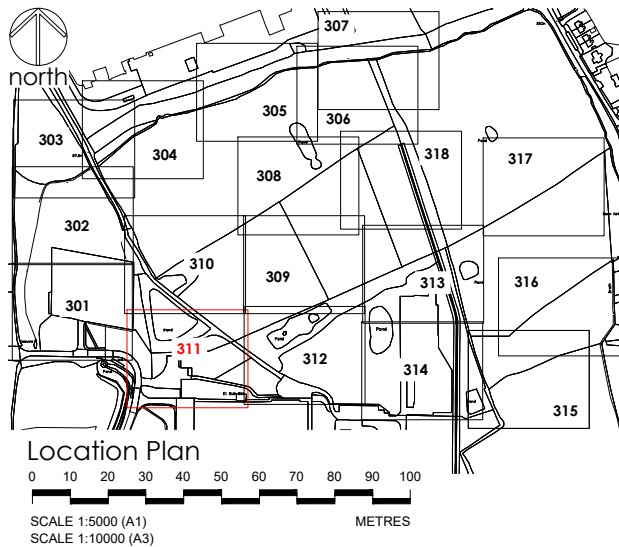
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Cheshire | WA16 6LZ | 07710 498231

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/310	Revision	Date	Details	Drawn	Checked	Reviewed
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 10 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date	03/05/2023				



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations. This drawing must be reproduced in colour.
- TREES TO BE RETAINED (Green circle with dot)
 - TREES TO BE REMOVED (Red circle with cross-hatch)
 - HEDGE TO BE RETAINED (Green line with cross-hatch)
 - HEDGE TO BE REMOVED (Red line with cross-hatch)
 - REFERENCE - tree, group, woodland RETAINED (White box with 'T')
 - REFERENCE - tree, group, woodland REMOVED (Red box with 'T')
 - ROOT PROTECTION AREA (RPA) (Blue dashed line)
 - PROPOSED DEVELOPMENT (Yellow hatched area)
 - TEMPORARY TREE PROTECTION FENCE (Purple line)
 - ASSESSMENT EXTENTS (Red line)

Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/311

Title ARBORICULTURAL METHOD STATEMENT TREE WORKS
SHEET 11 OF 18

Scale
1:250 @ A1 / 1:500 @ A3

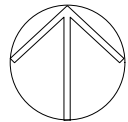
Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD

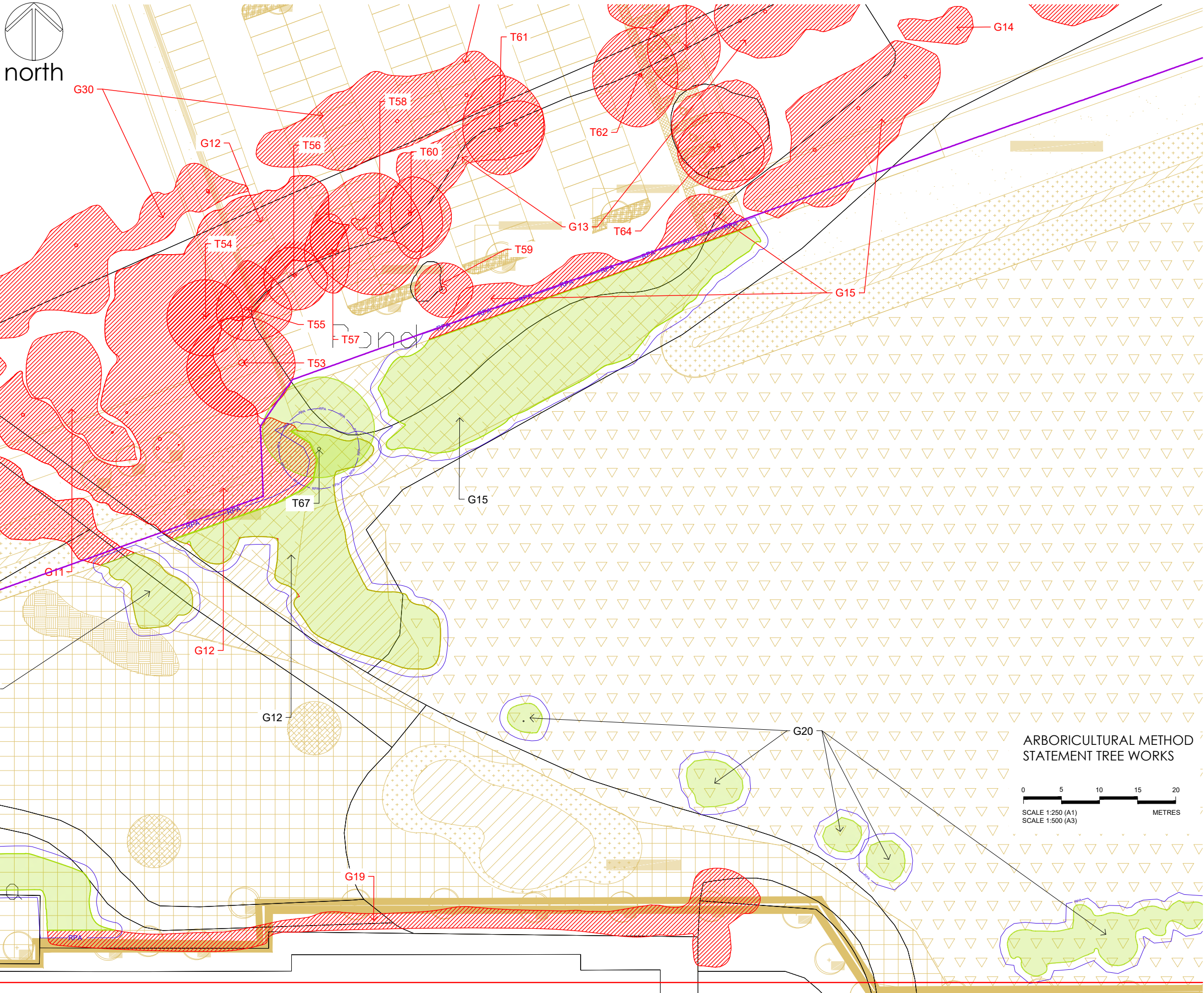


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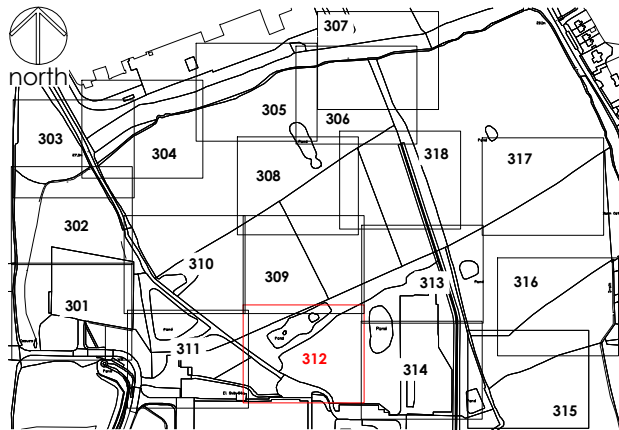


north



Notes

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Location Plan

0 10 20 30 40 50 60 70 80 90 100
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)
METRES

Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction: Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

ARBORICULTURAL METHOD STATEMENT TREE WORKS

0 5 10 15 20
SCALE 1:250 (A1)
SCALE 1:500 (A3)
METRES

Drawing references

274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project KINGMOOR
WREXHAM INDUSTRIAL ESTATE

Dwg No
274/T/312

Title ARBORICULTURAL METHOD STATEMENT TREE WORKS
SHEET 12 OF 18

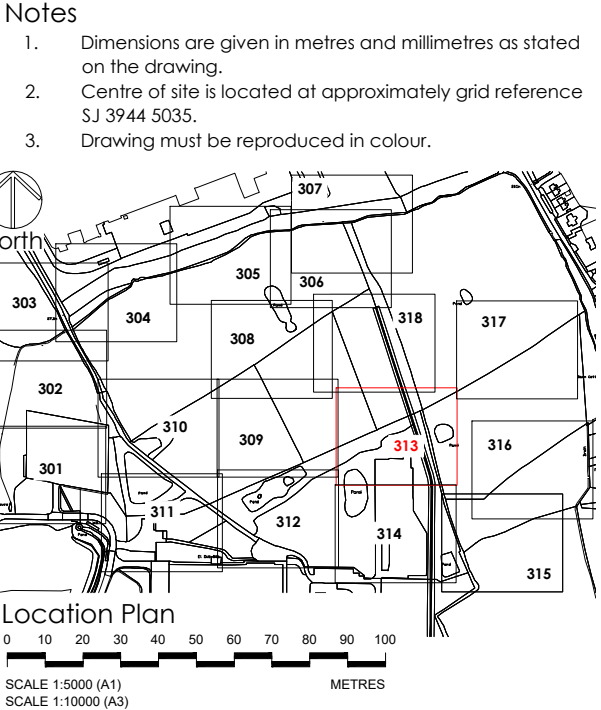
Scale
1:250 @ A1 / 1:500 @ A3

Date
03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour.

- TREES TO BE RETAINED (Green circle with crosshatch)
- TREES TO BE REMOVED (Red circle with diagonal lines)
- HEDGE TO BE RETAINED (Green line with crosshatch)
- HEDGE TO BE REMOVED (Red line with diagonal lines)
- REFERENCE - tree, group, woodland RETAINED (Green box with 'T')
- REFERENCE - tree, group, woodland REMOVED (Red box with 'T')
- ROOT PROTECTION AREA (RPA) (Blue dashed circle)
- PROPOSED DEVELOPMENT (Yellow hatched area)
- TEMPORARY TREE PROTECTION FENCE (Purple line)
- ASSESSMENT EXTENTS (Red line)

Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
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274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
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274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

OS LICENCE

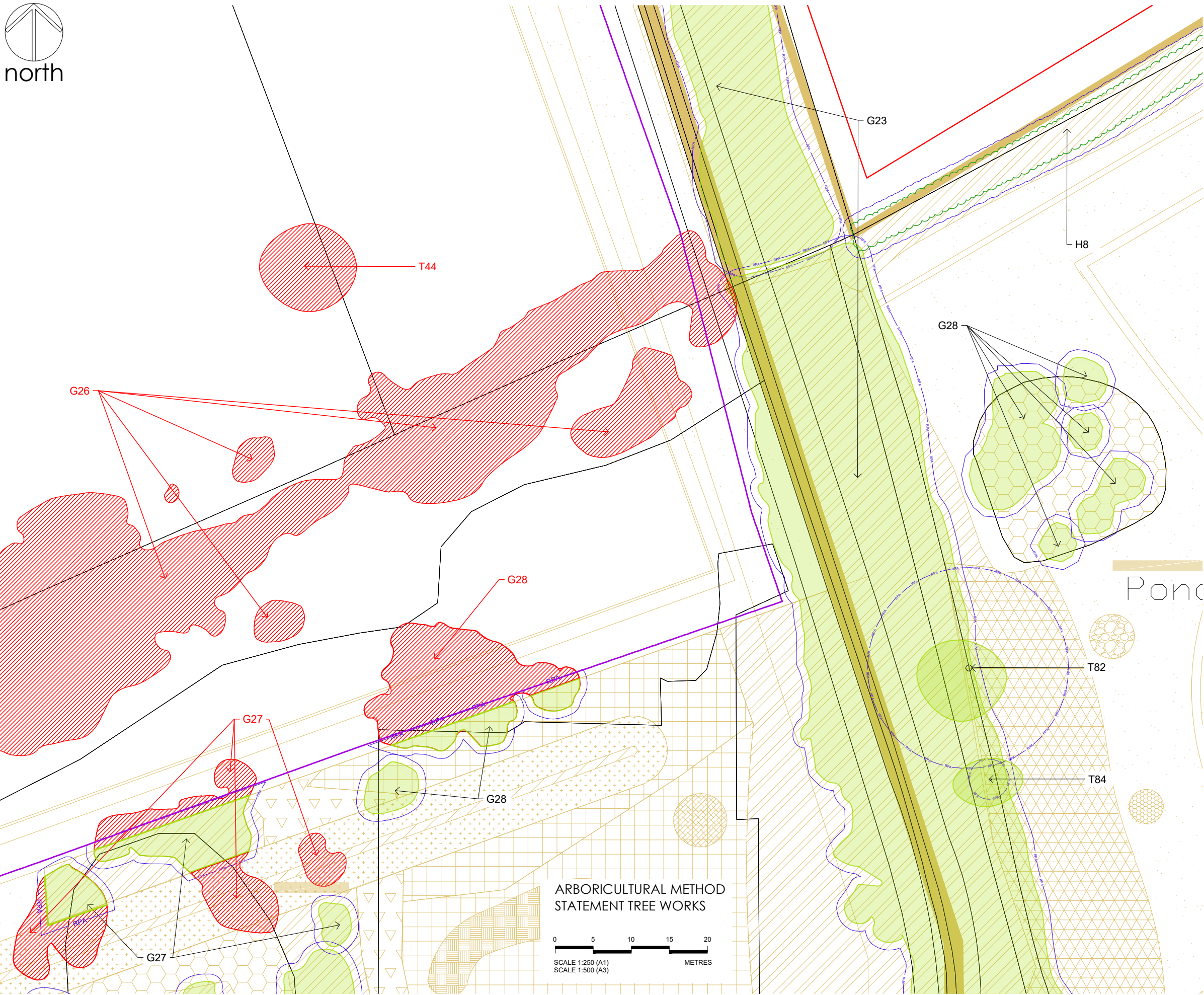
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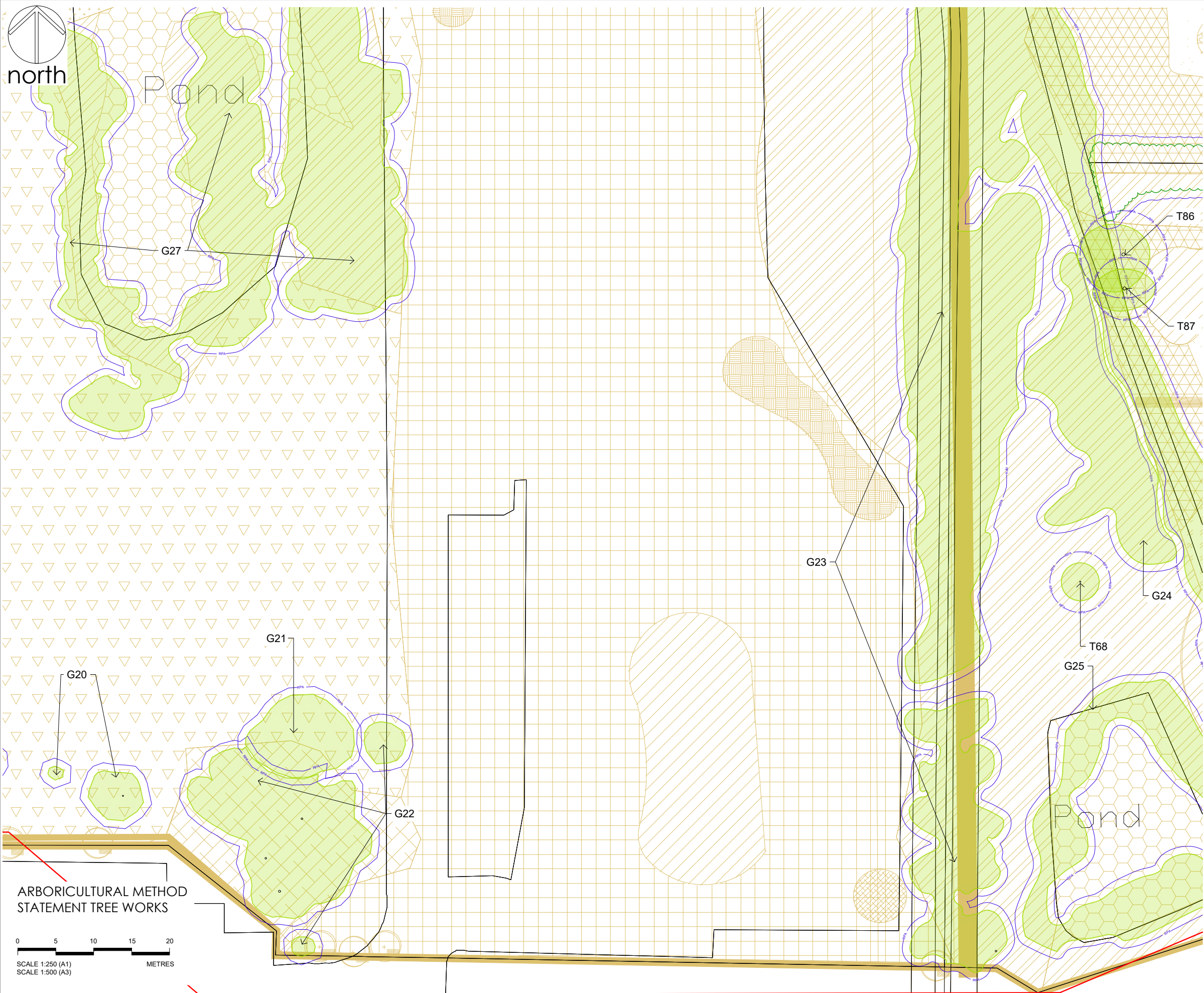
Landscape Institute

Arboricultural Association

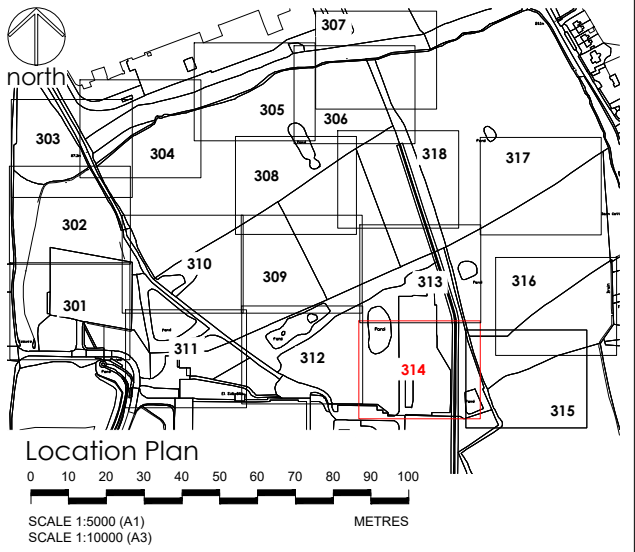


Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/313	
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 13 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date 03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

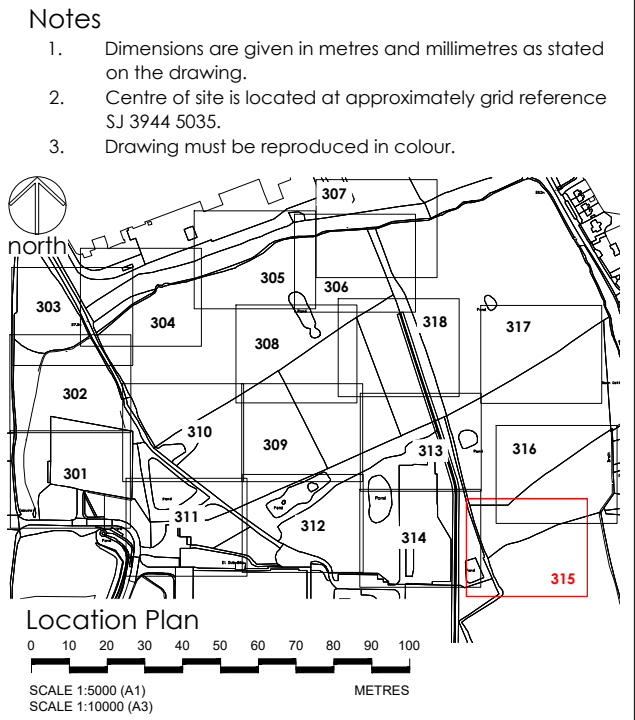
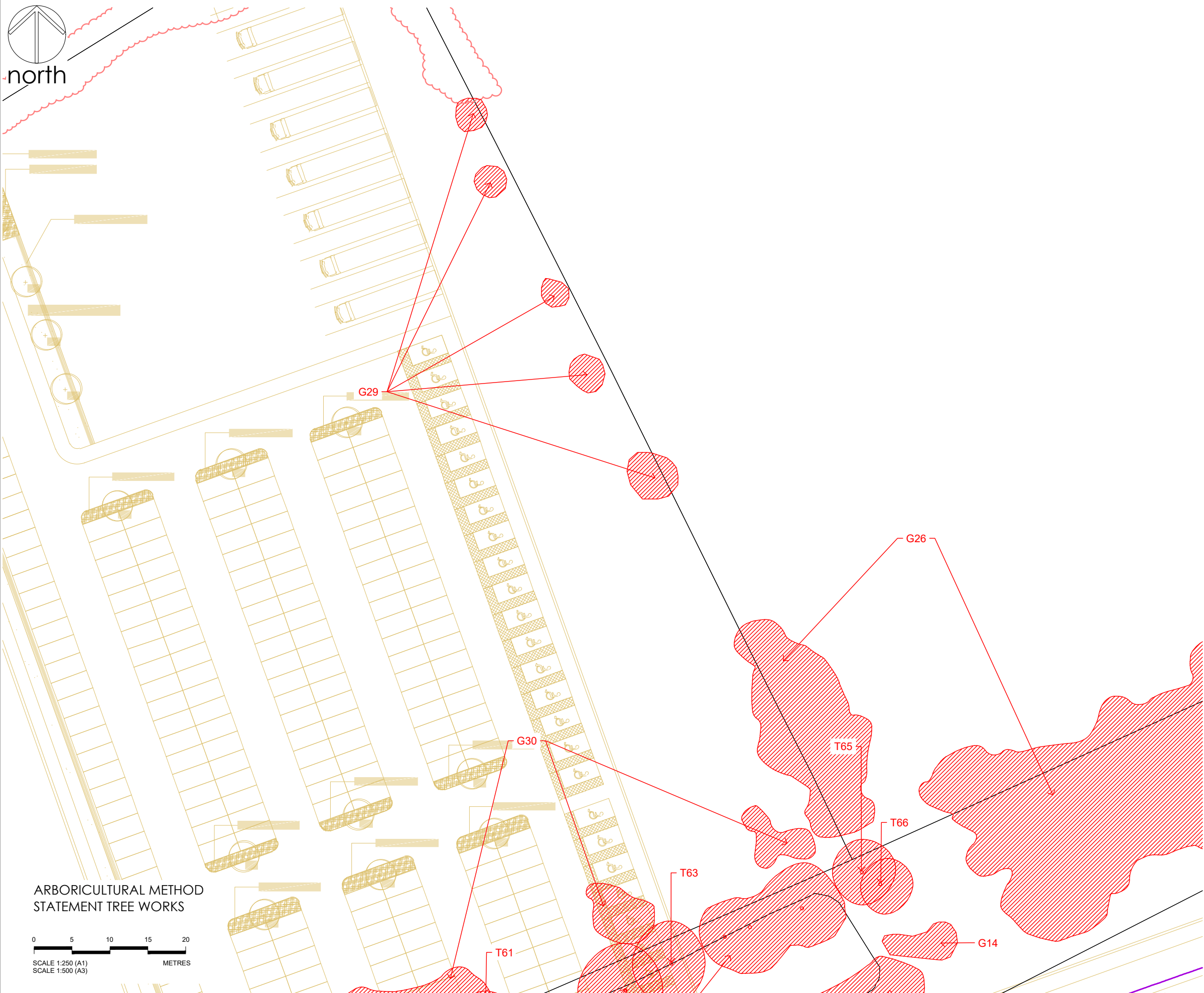
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274/I/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/I/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/I/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/I/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/I/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/I/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/314	Revision	Date	Details	Drawn	Checked	Reviewed
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 14 OF 18	Scale	1:250 @ A1 / 1:500 @ A3		03/05/2023	FOR INFORMATION	MD		MD

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Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction - Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- HEDGE TO BE RETAINED
- HEDGE TO BE REMOVED
- REFERENCE - tree, group, woodland RETAINED
- REFERENCE - tree, group, woodland REMOVED
- ROOT PROTECTION AREA (RPA)
- PROPOSED DEVELOPMENT
- TEMPORARY TREE PROTECTION FENCE
- ASSESSMENT EXTENTS

Drawing references

274/I/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/I/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/I/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/I/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/I/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18
274/I/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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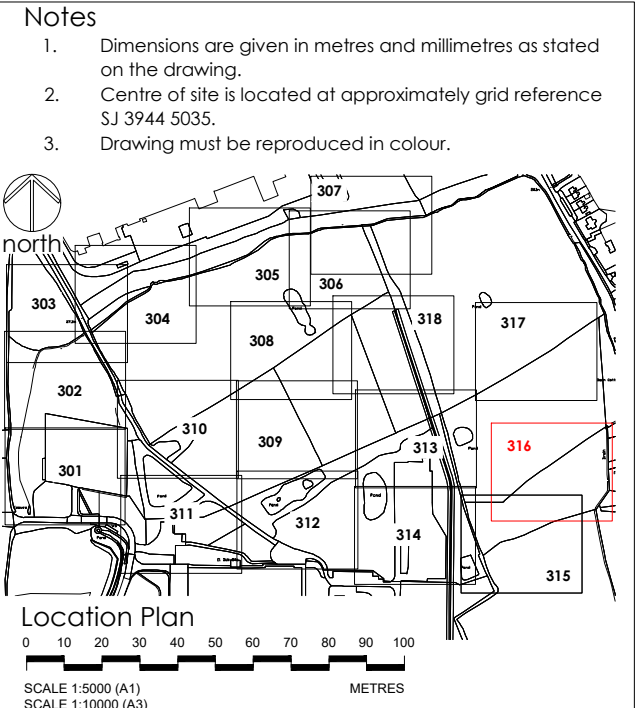
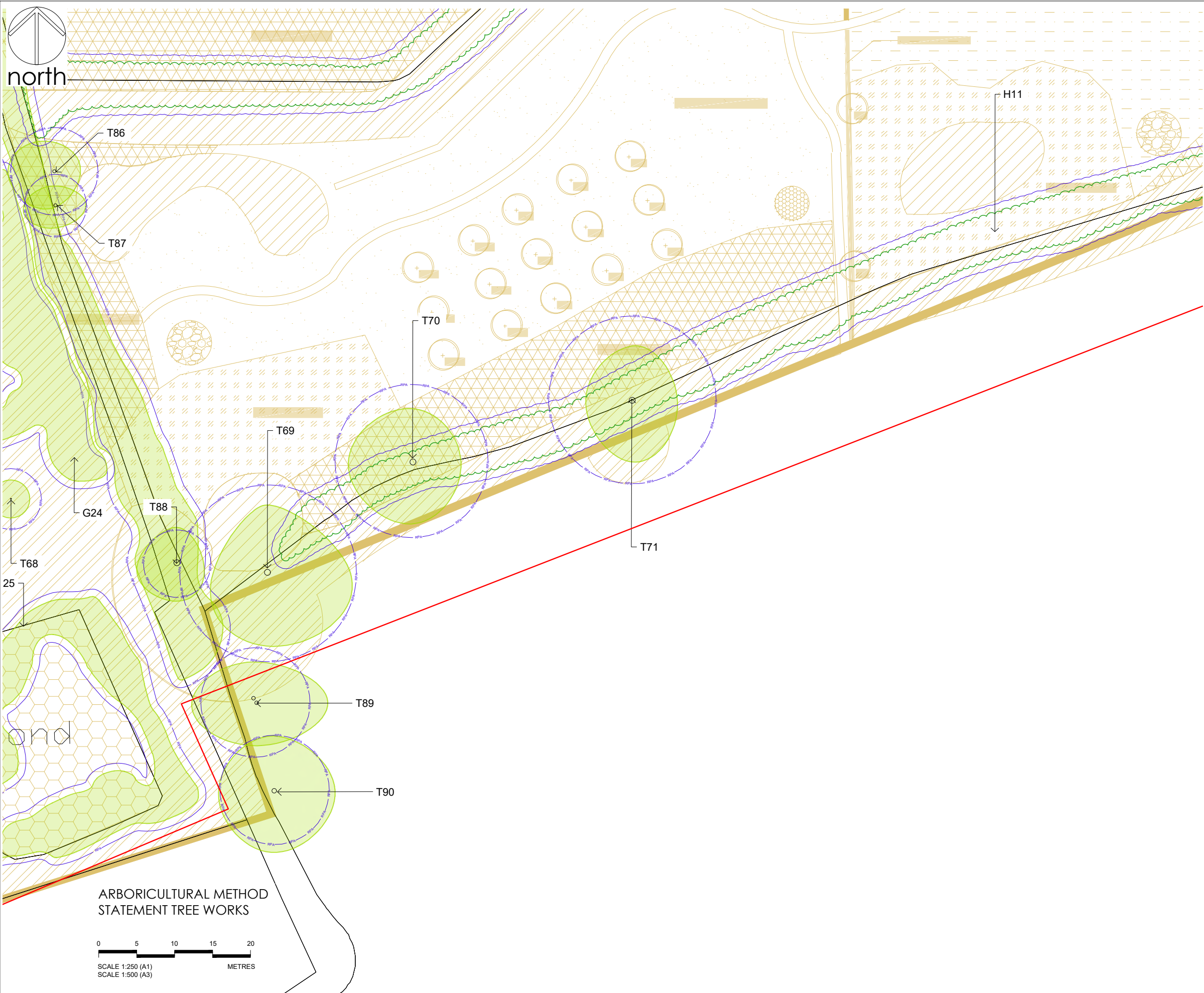
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Arboricultural Association

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/315
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 15 OF 18	Scale	1:250 @ A1 / 1:500 @ A3
		Date	03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



Legend

Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour

- TREES TO BE RETAINED (Green circle with cross)
- TREES TO BE REMOVED (Red circle with cross)
- HEDGE TO BE RETAINED (Green line with cross)
- HEDGE TO BE REMOVED (Red line with cross)
- REFERENCE - tree, group, woodland RETAINED (T1)
- REFERENCE - tree, group, woodland REMOVED (T1)
- ROOT PROTECTION AREA (RPA) (Blue dashed line)
- PROPOSED DEVELOPMENT (Green hatched area)
- TEMPORARY TREE PROTECTION FENCE (Purple line)
- ASSESSMENT EXTENTS (Red line)

Drawing references	
274/T/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN
274/T/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18
274/T/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18
274/T/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18
274/T/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18
274/T/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18
274/T/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18
274/T/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18
274/T/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18
274/T/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18
274/T/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18
274/T/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18
274/T/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18
274/T/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18
274/T/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18
274/T/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18
274/T/317	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 17 OF 18
274/T/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18

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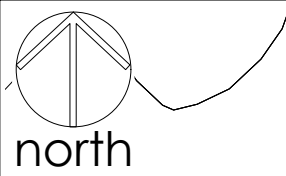
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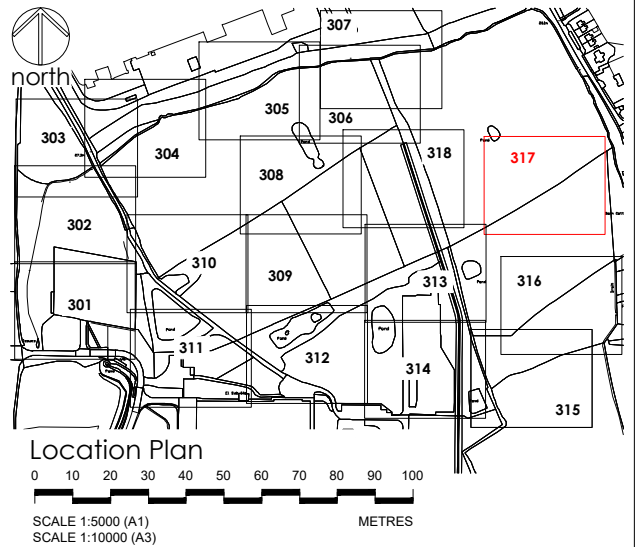
Arboricultural Association

Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/316	Date	03/05/2023
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 16 OF 18	Scale	1:250 @ A1 / 1:500 @ A3		

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



- Notes
1. Dimensions are given in metres and millimetres as stated on the drawing.
 2. Centre of site is located at approximately grid reference SJ 3944 5035.
 3. Drawing must be reproduced in colour.

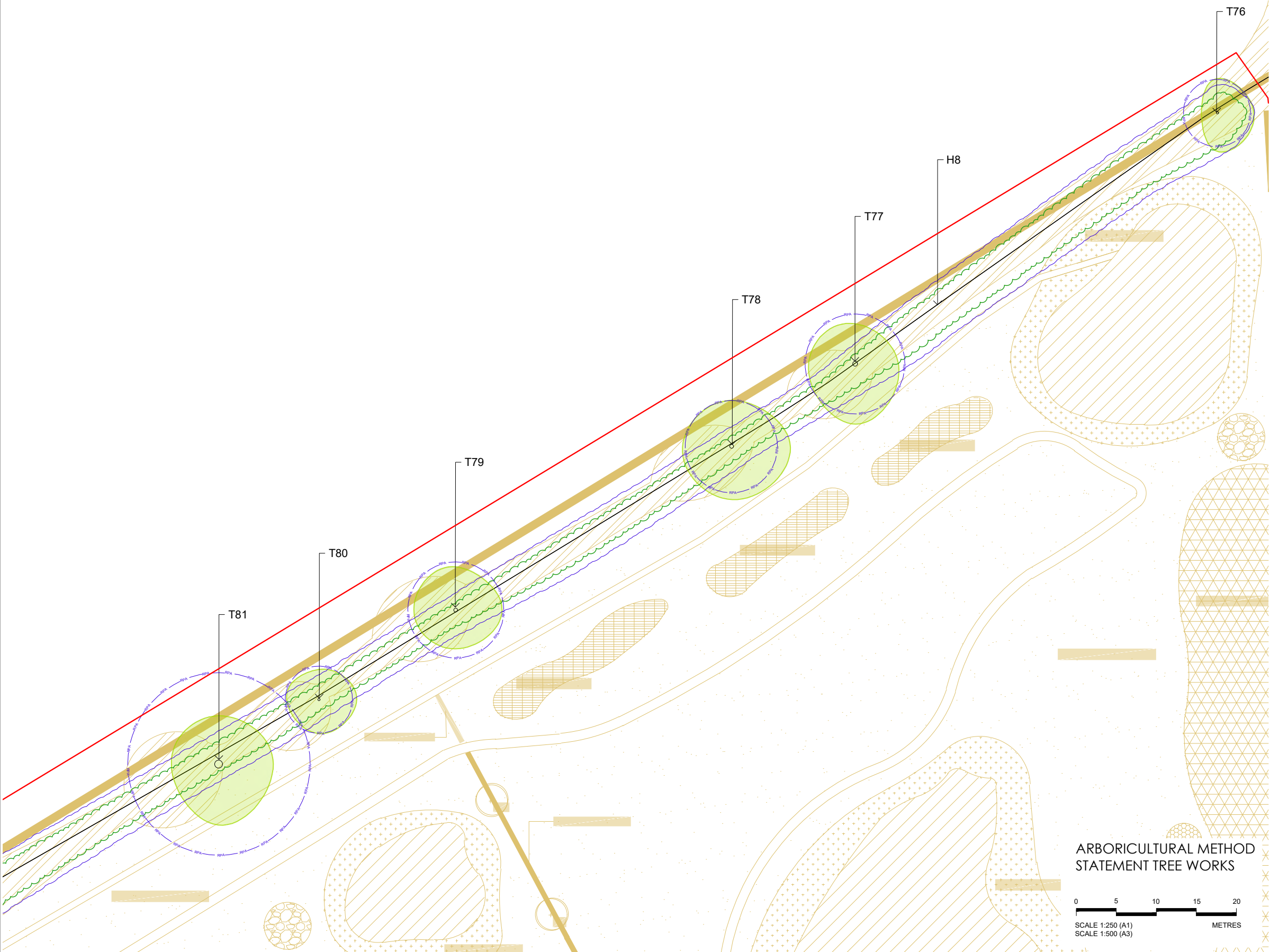


- Legend
- Trees categorised in accordance with BS5837:2012 Trees in relation to design, demolition and construction : Recommendations
This drawing must be reproduced in colour
- TREES TO BE RETAINED (Green circle)
 - TREES TO BE REMOVED (Red circle with cross-hatch)
 - HEDGE TO BE RETAINED (Green line)
 - HEDGE TO BE REMOVED (Red line)
 - REFERENCE - tree, group, woodland RETAINED (T1)
 - REFERENCE - tree, group, woodland REMOVED (T1)
 - ROOT PROTECTION AREA (RPA) (Blue dashed circle)
 - PROPOSED DEVELOPMENT (Yellow hatched area)
 - TEMPORARY TREE PROTECTION FENCE (Purple line)
 - ASSESSMENT EXTENTS (Red line)

Drawing references		
274/I/300	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET PLAN	
274/I/301	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 1 OF 18	
274/I/302	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 2 OF 18	
274/I/303	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 3 OF 18	
274/I/304	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 4 OF 18	
274/I/305	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 5 OF 18	
274/I/306	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 6 OF 18	
274/I/307	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 7 OF 18	
274/I/308	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 8 OF 18	
274/I/309	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 9 OF 18	
274/I/310	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 10 OF 18	
274/I/311	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 11 OF 18	
274/I/312	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 12 OF 18	
274/I/313	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 13 OF 18	
274/I/314	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 14 OF 18	
274/I/315	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 15 OF 18	
274/I/316	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 16 OF 18	
274/I/318	ARBORICULTURAL METHOD STATEMENT - TREE WORKS SHEET 18 OF 18	

OS LICENCE

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE	Dwg No	274/T/317	
Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 17 OF 18	Scale	1:250 @ A1 / 1:500 @ A3	Date 03/05/2023

Revision	Date	Details	Drawn	Checked	Reviewed
P01	03/05/2023	FOR INFORMATION	MD		MD



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6 Kinderton Close | High Legh | Knutsford
Cheshire | WA16 6LZ | 07710 498231





north

T83

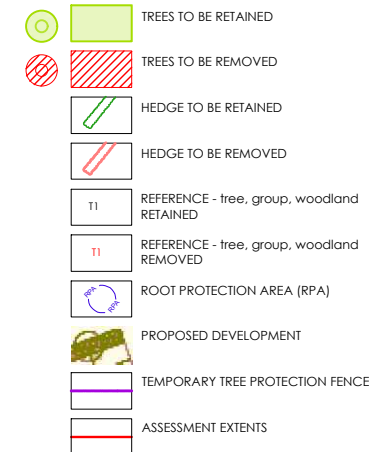
— G23

– G29

1. Dimensions are given in metres and millimetres as stated on the drawing.
2. Centre of site is located at approximately grid reference SJ 3944 5035.
3. Drawing must be reproduced in colour.



Trees categorised in accordance with BS5837:2012 Trees in relation
to design, demolition and construction : Recommendations
This drawing must be reproduced in colour



2/7/1/200	ARBORICULTURAL IMPACT ASSESSMENT - SHEET PLAN
2/7/1/201	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 1 OF 18
2/7/1/202	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 2 OF 18
2/7/1/203	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 3 OF 18
2/7/1/204	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 4 OF 18
2/7/1/205	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 5 OF 18
2/7/1/206	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 6 OF 18
2/7/1/207	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 7 OF 18
2/7/1/208	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 8 OF 18
2/7/1/209	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 9 OF 18
2/7/1/210	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 10 OF 18
2/7/1/211	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 11 OF 18
2/7/1/212	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 12 OF 18
2/7/1/213	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 13 OF 18
2/7/1/214	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 14 OF 18
2/7/1/215	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 15 OF 18
2/7/1/216	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 16 OF 18
2/7/1/217	ARBORICULTURAL IMPACT ASSESSMENT - TREE REMOVAL REQUIREMENTS SHEET 17 OF 18

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Project	KINGMOOR WREXHAM INDUSTRIAL ESTATE
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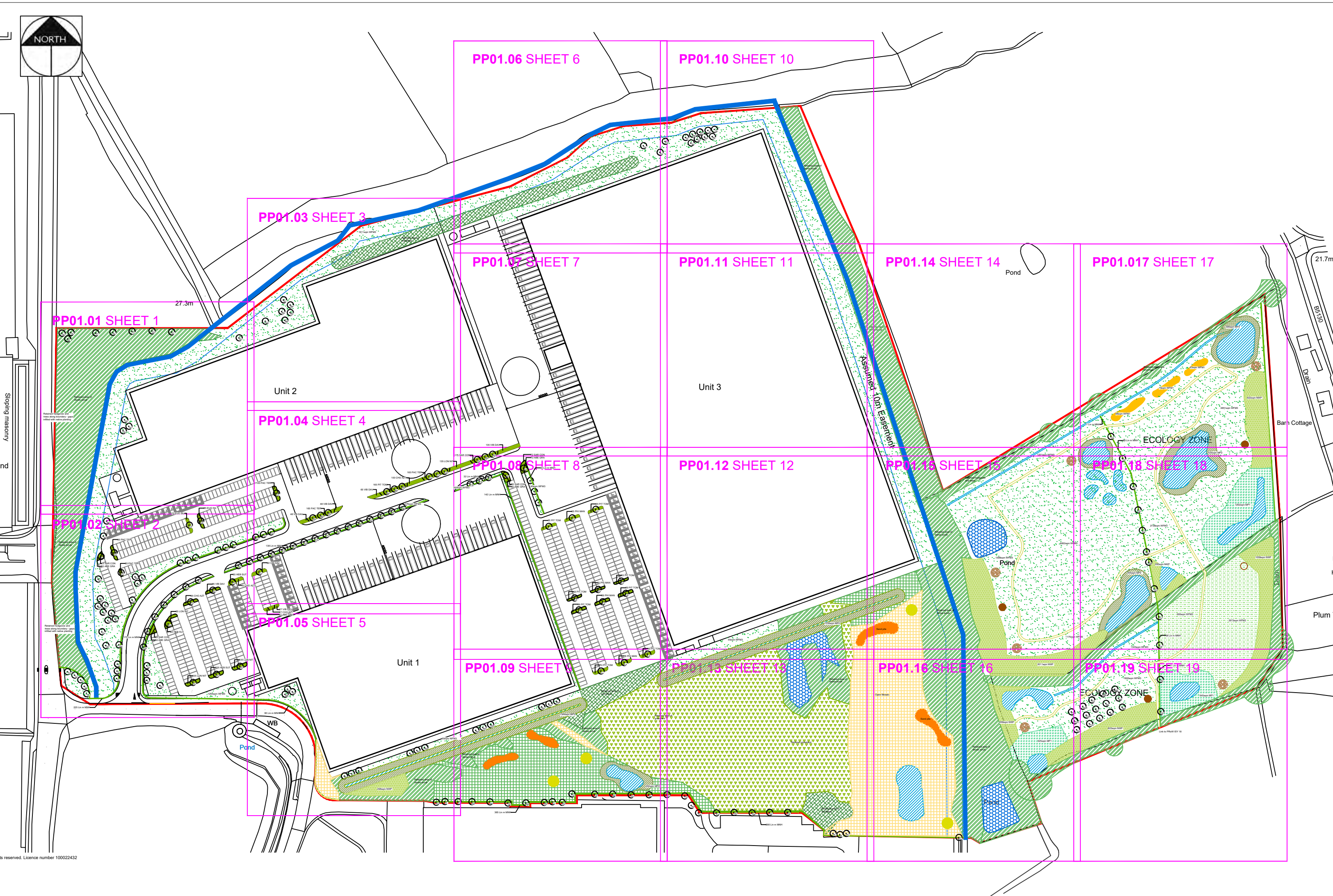
Dwg No 274/T/318

Title	ARBORICULTURAL METHOD STATEMENT TREE WORKS SHEET 18 OF 18
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Scale
1:250 @ A1 / 1:500 @ A3

Date 03/05/2023

[illegible]



SPECIFICATION NOTES

1. General

This plan to be read in conjunction with the following documents:

- Ecology Reports by UES
- Drainage Strategy
- And any other supporting information

2. General Landscaping

Existing levels to be preserved around retained existing trees and vegetation. Existing trees and vegetation to be retained are to be protected in accordance with BS5837:2012 during construction. Proposed planting under existing trees subject to sufficient space in root areas.

3. Preparation of Planting Beds

- Rubbish, concrete, metal, glass, decayed vegetation are to be removed and disposed of off site.
- Stones with the largest dimension exceeding 40mm are to be removed from planting beds and disposed of off site.
- Substances injurious to plant growth including subsoil, rubble, fuel and lubricants should be removed and disposed of off site.
- Remove any existing weed growth.
- Areas of large root are to be grubbed up without undue disturbance of surrounding soil and adjacent areas.
- All site preparation, planting and maintenance to comply with BS 4429

4. Soil

Imported topsoil to be a good quality loam to BS 3882:2015. All topsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorant's as specified and/or as indicated by analysis and/or as directed by the Landscape Architect. Hand cultivation's shall be carried out to achieve the required finish on areas where machine cultivation is impossible i.e adjacent to kerbs, manholes and footpath junctions etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Existing topsoil to be stripped and re-used if suitable as per specification. All work to be carried out in line with BS 3882:2015 and DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (2009).

5. Plants

General plant stock to conform to BS 3936, advanced nursery stock and planting to BS 4428. Plants shall be first class examples of their species or variety, free from all pests and diseases, with good fibrous root systems and materially undamaged (refer to relevant sections of BS3936 rts 1-4 'Specification of Nursery Stock'). All planting operations to be in general compliance with BS4428: 1989 'Code of Practice for general landscape operations (excluding hard surfaces)'.

Carry out all planting while soil and weather conditions are suitable:

- Do not plant during periods of frost or strong winds. Plant only during the following periods:
- Container grown and root ball plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering and weed control is provided
- Bare Root stock to be planted November to March.

All plants to be planted in cultivated planting beds at densities shown in plant schedule, in pits of min. size 0.3m x 0.3m x 0.3m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% compost and 20g granular fertilizer. All shrub beds to be in min. 450mm good quality, well prepared soil.

See Plant Schedule for species palette. Bed composition, arrangement and setting-out to be approved by Landscape Architect before work commences. Topsoil depth to be 450mm for shrub planting and 150mm for grass.

Native Hedgerow - Stock to be planted in double rows, 5 per linear metre. Trees to be protected with a 600mm spiral rabbit guard and staked. To be kept free of weeds during establishment using secured mulch matting. Bare root plants to be notch planted to depth of root collar in accordance with BS4428.

6. Trees

Trees shown on plan to be planted with species as labelled or similar approved. Do not substitute species, variety and form or reduce the specified number/density of plants without prior agreement. Note sizes shown are minimum. All trees to be planted in pits 2m x 2m x 1m deep, backfilled with 80% clean topsoil with 15% peat free tree and shrub planting compost and 5% Tree Growth Enhancer 'GroChar', including 100g granular fertilizer. Base of pit to be filled with a Terram Geotextile layer on 150mm drainage layer consisting of 20mm nominal size free draining pea gravel. Water-in heavily after planting and surface bark chippings 75mm depth. All trees to be triple staked with timber cross bar and soft ties. Any necessary tree works are to be carried out by an approved tree surgeon to BS 3998. All trees to be protected with 600mm spiral rabbit guard.

All work to be carried out in line with BS 3882:2015 and DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites (2009).

7. Mulch

General purpose mulch prepared in accordance with PAS 100. All planting areas and tree pits to be mulched with 75mm (settled depth) bark mulch. Sample of mulch to be approved by Landscape Architect.

8. Wildflower Meadow Grass

Seeding shall be carried out during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. Hand tools shall be used around trees, plants and in confined spaces where it is impractical to use machinery. The soil shall be weed free prior to seeding on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings. Sown to manufactures guidance and in accordance with Ecology recommendations.

9. Replacement of trees and vegetation

The contractor shall replace all plants/trees that have failed to thrive (show growth or display foliage) during the growing season after planting (including plants damaged during maintenance operations). Replacements to match original specification or similar size/species approved by the Landscape Architect. In particular, if any of the boundary vegetation, including those marked for retention, are to be replaced with similar size and species if they die within 5 years.

PLANTING SCHEDULE						
Trees						
Qty	Code	Name	Girth	Height cm	Specification	
25	Ac	Acer campestre	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
37	Bp	Betula pendula	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
18	Cb	Carpinus betulus	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
7	Cf	Carpinus betulus 'Frans fontaine'	14-16	400-600	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
14	Fs	Fagus sylvestris	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
17	Ls	Liquidambar styraciflua 'Lane Roberts'	14-16	400-450	RB 3x; Semi-mature; clear stem minimum 200cm	
3	Md	Malus domestica 'Discovery'	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 175-200cm; 5 breaks	
3	Ms	Malus domestica 'Sunset'	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 175-200cm; 5 breaks	
12	Pi	Pinus sylvestris		300-350	Leader with laterals; feathered to the base	
3	Pd	Prunus domestica 'Victoria Plum'	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 175-200cm; 5 breaks	
3	Pa	Prunus avium 'Plena'	10-12	300-350	RB 2x; Heavy Standard; clear stem minimum 175-200cm; 4 breaks	
8	Pc	Pyrus calleryana 'Chanticleer'	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 175-200cm; 5 breaks	
3	PcC	Pyrus communis 'Conference'	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 175-200cm; 5 breaks	
3	PcB	Pyrus communis 'Beth'	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 175-200cm; 5 breaks	
14	Qr	Quercus robur	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
7	Qu	Quercus rubra	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
9	Sa	Sorbus aucuparia	14-16	400-450	RB 3x; Extra heavy standard; clear stem minimum 200cm; 5 breaks	
21		Tilia cordata 'Greenspire'				

NWP - Native Woodland Planting (random mix 1 per m ²)						
Total Area On Site (m ²)						
5567						
Qty	% Mix	Name	Size cm	Root Cond.	Density / Spacing	Specification
557	10	Betula pendula	60-90	B	1/m ²	Transplant (seed-raised), 1+1
557	10	Corylus avellana	60-90	B	1/m ²	Transplant (seed-raised), 1+1
835	15	Crataegus monogyna	60-90	B	1/m ²	Transplant (seed-raised), 1+1
278	5	Ilex aquifolium	40-60	2L pot	1/m ²	Leader with laterals
557	10	Sorbus aucuparia	60-90	B	1/m ²	Transplant (seed-raised), 1+1
557	10	Prunus avium	60-90	B	1/m ²	Transplant (seed-raised), 1+1
278	5	Prunus spinosa	60-90	B	1/m ²	Transplant (seed-raised), 1+1
835	15	Quercus robur	60-90	B	1/m ²	Transplant (seed-raised), 1+1
278	5	Rosa canina	60-90	B	1/m ²	Transplant (seed-raised), 1+1
835	15	Viburnum opulus	60-90	B	1/m ²	Transplant (seed-raised), 1+1

MNH - Mixed Native Hedge						
Total Length On Site 1772 Lin m						
No. of Plants	% Mix	Species	Size in cm	Root Cond.	Density / Spacing	Specification
8860	MNH	Mixed Native Hedge				
1329	15	Crataegus monogyna	60-90	B	5/m ²	Transplant (seed-raised), 1+1
1329	15	Corylus avellana	60-90	B	5/m ²	Transplant (seed-raised), 1+1
1329	15	Ilex aquifolium	40-60	2L	5/m ²	Leader with laterals
443	5	Lonicera periclymenum	60-80	2L	5/m ²	Caned: several breaks
886	10	Malus sylvestris	60-90	B	5/m ²	Transplant (seed-raised), 1+1
886	10	Prunus spinosa	60-90	B	5/m ²	Transplant (seed-raised), 1+1
443	5	Rosa arvensis	60-90	B	5/m ²	Transplant (seed-raised), 1+1
443	5	Rosa canina	60-90	B	5/m ²	Transplant (seed-raised), 1+1
886	10	Sambucus nigra	60-90	B	5/m ²	Transplant (seed-raised), 1+1
886	10	Viburnum opulus	60-90	B	5/m ²	Transplant (seed-raised), 1+1

Wildflower Meadow Planting			
Code	Area (m2)	Seed Mix Specification	Sowing Rate (g/m ²)
WFM1	240	N4F Summer flowering Butterfly and Bee Mix	1.5g/m2 sow to suppliers recommendations
WFM2	3872	Emorsgate EM10 Tussock Mixture	4g/m2 sow to suppliers recommendations

Grassland Meadow Planting			
Code	Area (m2)	Seed Mix Specification	Sowing Rate (g/m ²)
WFM3	26,320	Emorsgate EM3 Special General Purpose Meadow Mixture	Suppliers recommendations.

MP - Marginal Planting			
Code	Area (m2)	Seed Mix Specification	Sowing Rate (g/m ²)
MP1	2432	Naturescape N7F Wetland Mix	1.5g/m2. sow to suppliers recommendations
MP2	4235	Species mix to include Mentha aquatica, Myosotis scorpioides, Veronica beccabunga, Nasturtium officinale, Iris pseudacorus, Glyceria maxima, Carex riparia, Carex pseudocyperus	To Ecologists recommendations

SHRUBS						
Shrub bed composition to be laid out and agreed with Landscape Architect prior to planting						
Qty	Abbrev.	Name	Rate / m2	Height	Container Size	Specification
259	ABE GRA	Abelia grandiflora	5	30-40	3L	Bushy; 3 breaks
257	CHO AZT	Choisya Aztec Pearl	5	30-40	3L	Bushy; 5 breaks
155	EUO SIL	Euonymus 'Silver Queen'	5	30-40	3L	Bushy; 5 breaks
245	HEB SUT	Hebe pinguifolia 'sutherlandii'	5	20-30D	3L	Bushy; 5 breaks
410	LON NIT	Lonicera nitida	5	30-40	3L	Bushy; 5 breaks
297	PHI MAN	Philadelphus 'Manteau d'hermine'	5	30-40	3L	Branched; 4 breaks
757	PIT TOM	Pittosporum tenuifolium 'Tom thumb'	5	20-30	5L	Bushy; 5 breaks
545	PAC TER	Pachysandra terminalis	7	20-30	3L	Bushy; 4 breaks
362	SAR CON	Sarcococca confusa	5	20-30	3L	Bushy; 6 breaks
488	VIB DAV	Viburnum davidii	5	20-30	3L	Bushy; 3 brks

P3	25.10.22	Revised to Architects layout	KLJ
P2	14.09.22	Marginal planting to ponds	KLJ
P1	26.08.22	Initial Issue	KLJ
Rev	Date	Description	Initials

pgla | landscape architects

PGLA Ltd
Landscape Architects
Station Hop Offices
815 Stockport Road
Manchester
M19 3BS

t: 0161 238 9138
e: info@pgla.co.uk
w: www.pgla.co.uk

Client

FIREM

Project

3A, KINGMOOR, WREXHAM

Description

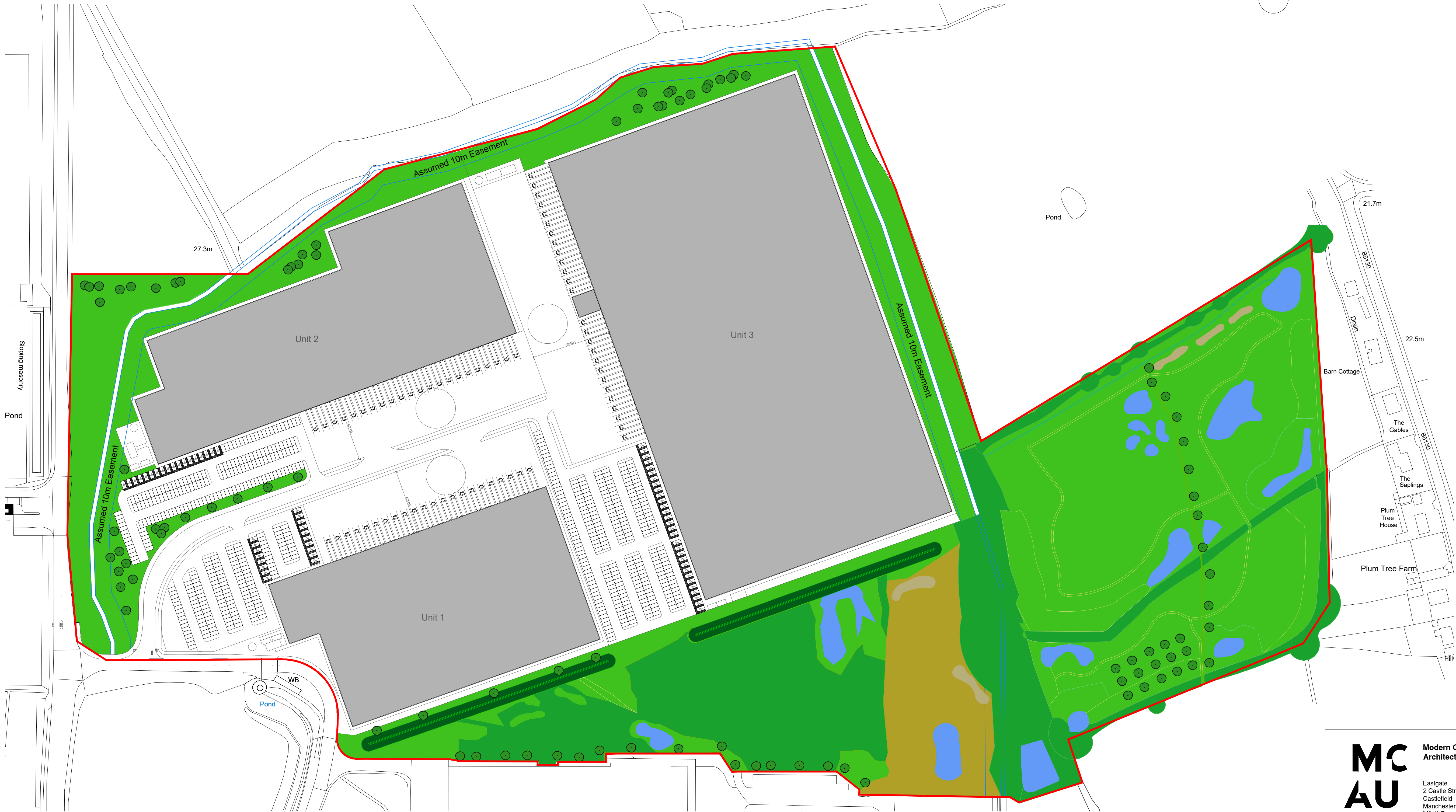
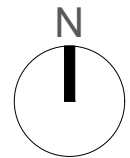
PLANTING PLAN AND SCHEDULE

Status

FOR PLANNING

Scale	Drawn	Checked	Date
1:1500@A1	KLJ	PGG	OCT 2022
Job number	Drawing number	Revision	
WRE2206	PP01.00	P3	

P1	Initial Issue	PJ	10.08.22
P2	Site layout changed	PJ	18.10.22
P3	Landscape added	PJ	07.11.22



Total Site Area : 254,287 sqm
Total Ecology Area: 114,489 sqm
Ecology Zone as site percentage: 45% approx

Unit	Use	Ground Floor Area	Mezz Office Area (5%)	Storage Mezz Area (7.5%)	Unit Total Area
1	B8	17,187sqm / 185,000sqft	859sqm / 9,250sqft	1,289sqm / 13,875sqft	19,335sqm / 208,125sqft
2	B8	19,045sqm / 205,000sqft	952sqm / 10,250sqft	1,428sqm / 15,375sqft	21,425sqm / 230,625sqft
3	B8	46,451sqm / 500,000sqft	2,322sqm / 25,000sqft	3,483sqm / 37,500sqft	52,257sqm / 562,500sqft

Development Total	93,019sqm / 1,001,250sqft
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Unit	Parking Number
1	175 spaces including 18 accessible
2	183 spaces including 18 accessible
3	296 spaces including 30 accessible

MC

AU

Modern City

Architecture & Urbanism

Eastgate

2 Castle Street

Castletfield

Manchester

M3 4LZ

t: 0161 974 7203

e: info@mcau.co.uk

www.mcau.co.uk

Client
F.I. Real Estate Management

Project
Kingmoor
Wrexham

Description
Proposed 3 Unit Site Plan

Status			
INFORMATION			
Scale	Drawn By	Date	
1:1250@A1	PJ	AUG22	
Job Number	Drawing Number	Revision	
1204	02-001	P3	

11 APPENDICES

APPENDIX 1 - ARBORICULTURAL SURVEY DATA SHEETS – refer to Tree Constraints Plans 274/T/100-118 inclusive.

The information in the data sheets is correct as of time of survey. Trees are dynamic organisms and their condition can change as a result of changes in their environment, stress factors, physical and man-made conditions.

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W				Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
TREES - estimated measurements are underlined																	
T1	Populus nigra 'Italica' (Lombardy poplar)	22	1400	4	3	6	3	not recorded	2	Over mature	Poor	Poor	Cavity at base with split up to union where bifurcate at 2.5m; tree at risk of failure; recommend removal	U	16.8	Remove	<10 years
T2	Quercus robur (English oak)	11	540	7	8.5	7	6	not recorded	not recorded	Middle Age	Good	Good	Spreading crown; ivy clad; dead wood throughout crown; landscape and habitat value	A2	6.48		40 years +
T3	Quercus robur (English oak)	10	560	8	7	5.5	7	not recorded	not recorded	Middle Age	Good	Good	Spreading crown; ivy clad; dead wood throughout crown; landscape and habitat value	A2	6.72		40 years +
T4	Quercus robur (English oak)	14	<u>750</u>	8.5	8	7.5	8	not recorded	not recorded	Mature	Good	Good	Access impeded for close inspection due to bramble and scrub; spreading crown; ivy clad; occasional dead wood throughout crown; landscape and habitat value	A2	9		40 years +
T5	Quercus robur (English oak)	14	<u>800</u>	7	5	4.5	6	not recorded	not recorded	Mature	Good	Good	Access impeded for close inspection due to bramble and scrub; spreading crown; ivy clad; occasional dead wood throughout crown; landscape and habitat value	A2	9.6		40 years +
T6	Fraxinus excelsior (ash)	14	<u>540</u>	5.5	9.5	6	7	not recorded	not recorded	Mature	Good	Good	Access impeded for close inspection due to bramble and scrub; spreading crown; ivy clad; landscape value	B2	6.48		20-40 years

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W				Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BSS837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
T7	Fraxinus excelsior (ash)	12	<u>280</u>	5	9	6.5	6.5	not recorded	not recorded	Mature	Good	Good	Access impeded for close inspection due to bramble and scrub; spreading crown; ivy clad; landscape value	A2	3.36		20-40 years
T8	Quercus robur (English oak)	11	<u>650</u>	6	7	7.5	8.5	not recorded	not recorded	Mature	Good	Good	At edge of woodland group adjacent to track; spreading crown; minor dead wood	A2	7.8		40 years +
T9	Quercus robur (English oak)	8	340	6.5	2	5.5	6	N2	2	Early Mature	Good	Good	Crown suppressed to south; minor dead wood	B2	4.08		20-40 years
T10	Fraxinus excelsior (ash)	10	380	2.5	3.5	6	4	S1.5	2.5	Early Mature	Fair	Good	Bifurcate with twisted and fused stems; natural bracing	C2	4.56		10-20 years
T11	Quercus robur (English oak)	9	680	4.5	4.5	5	3	N2.5	3.5	Mature	Fair	Fair	Torn out branches and cavities at 2.5m W; habitat value; occlusion of wounds but in decline	B3	8.16		20-40 years
T12	Fraxinus excelsior (ash)	8	200	2.5	3.5	2.5	2.5	S2.5	3	Semi- mature	Good	Good	Good form and condition	B2	2.4		20-40 years
T13	Quercus robur (English oak)	9	780	5	4.5	8	5	N1.8	2	Mature	Fair	Fair	Cavity at base up to 1.8m on NW side; cracks and cavities to stem; dieback in crown; habitat value	B3	9.36		20-40 years
T14	Quercus robur (English oak)	12	840	7	7.5	9	8	N2	2	Mature	Good	Good	Previous loss of side branch now fully occluded; minor dead wood; spreading crown and good form	A2	10.08		40 years +
T15	Quercus robur (English oak)	7	400	3.5	5	4.5	5	W3	2.5	Early Mature	Fair	Fair	Access impeded for closer inspection; die back in crown; ivy clad	C2	4.8		10-20 years
T16	Quercus robur (English oak)	17	880	5	5.5	7	8	W2.5	3	Mature	Fair	Fair	Established cavity at base of stem; woodworm to heartwood; movement of rootplate and locally raised ground to south, leaning to north; dieback in crown	B3	10.56		20-40 years
T17	Quercus robur (English oak)	14	760	5	7	6	7.5	SE3.5	2.5	Mature	Good	Good	Minor cavities to stem and branches, potential bat roost features; branch shedding at collar; spreading crown	A3	9.12		40 years +

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T18	Quercus robur (English oak)	15	960	5	10	9	9	N2.5	1.5	Mature	Good	Good	Recently broken branch, possible machine damage; located at edge of ditch; prominent tree; spreading crown	A2	11.52		40 years +
T19	Betula pendula (silver birch)	17	370	5.5	4	5.5	3	N4	4.5	Early Mature	Good	Good	Ivy clad stem; broken lower branches possible machine damage; sweep to stem at base but self-corrected	B2	4.44		20-40 years
T20	Salix caprea (goat willow)	15	<u>600</u> basal dia.	5	6	4	8.5	N1.8	2.5	Middle Age	Fair	Fair	Multstemmed at base with spreading crown	C2	6		10-20 years
T21	Quercus robur (English oak)	8	780	6	9.5	8	6	S3	1	Mature	Good	Good	Ivy clad stem; branch loss to west side; potential cavities hidden by ivy; spreading crown	A2	9.36		40 years +
T22	Betula pendula (silver birch)	8	140	2.5	2.5	2.5	2.5	S2.5	2	Semi-mature	Good	Good	Good form and condition, symmetrical crown	B1	1.68		20-40 years
T23	Quercus robur (English oak)	10	<u>620</u>	7	3.5	6	6	not recorded	not recorded	Mature	Good	Good	At edge of ditch and woodland; wire fence attached to stem; crown biased to north	A2	7.44		20-40 years
T24	Fraxinus excelsior (ash)	20	440	6	6	6	6	not recorded	not recorded	Middle Age	Good	Good	At edge of ditch; minor ivy growth	B1	5.28		20-40 years
T25	Fraxinus excelsior (ash)	22	550	5	9.5	4.5	9	NW2.5	3	Middle Age	Fair	Fair	Black exudation from stem; deadwood and die back to branches with woodpecker holes and small cavities; potential bat roost features and habitat value	B3	6.6		20-40 years
T26	Fraxinus excelsior (ash)	16	420	0	7	4	1	SW3	2	Middle Age	Fair	Good	Leaning to south with self-corrected growth	C2	5.04		10-20 years
T27	Quercus robur (English oak)	18	510	4	8	6.5	6	NW2.5	1.5	Middle Age	Good	Good	Good form and condition; minor dead wood; landscape value	A2	6.12		40 years +
T28	Quercus robur (English oak)	10	530	0	10	6	11	S2.5	1	Middle Age	Fair	Fair	Heavily suppressed to north; dead wood to north side and west to scaffold branch; slow occlusion at branch loss locations; habitat value	B3	6.36		20-40 years
T29	Fraxinus excelsior (ash)	12	<u>450</u>	5	8.5	4.5	8	W3	1.5	Middle Age	Good	Good	Inspection access impeded by scrub	B2	5.4		20-40 years

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T30	Quercus robur (English oak)	11	500	6	8.5	3	9	NE3.5	1	Middle Age	Good	Good	Spreading crown but suppressed to east; branches of T31 hung up in crown	B2	6		20-40 years
T31	Salix alba (white willow)	22	640	7	11	2	12	S2.5	1.5	Mature	Fair	Good	Collapsed crown and broken branches in north side of upper crown; open spreading habit	C2	7.68		10-20 years
T32	Salix alba (white willow)	25	910	12	11.5	6	15	N3	0.5	Over mature	Fair	Good	Collapsed crown and broken branches in east side of upper crown; open spreading habit; west side in better condition, but branches have been shed	C2	10.92		10-20 years
T33	Salix alba (white willow)	22	600	4	12	10	7	S3	0	Mature	Fair	Good	Bifurcate at 3m with spreading crown; minor dead wood and broken branches but in better condition than T31 and T32	B2	7.2		20-40 years
T34	Quercus robur (English oak)	18	650	7	7.5	6.5	8	SW3	1.5	Mature	Good	Good	Significant tree with spreading crown; good form and condition	A1, A2	7.8		40 years +
T35(V)	Quercus robur (English oak)	10	1170	6	9.5	8.5	6.5	SW2.5	0.5	Over mature	Veteran	Veteran	Significant tree and potential veteran; 3.65m circumference/girth; knotty and burred trunk; cavities and splits to stem with exposed heartwood; wounds occluding and healthy crown	A2, A3	14.04		40 years +
T36(V)	Quercus robur (English oak)	13	1440	8	6.5	5	7	S2.5	1.5	Over mature	Veteran	Veteran	Significant tree and potential veteran; 4.4m circumference/girth; hollow stem which has been filled with lumps of concrete; crown is healthy; stem to south side has bark loss and is partially separated from the main stem and lifting at the root flare	A2, A3	17.28		40 years +
T37	Quercus robur (English oak)	18	<u>700</u>	9	9.5	6	8.5	S3.5	1.5	Mature	Good	Good	On north side of stream; no access for survey; crown extends over brook	A2, A3	8.4		40 years +

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T38	Crataegus monogyna (hawthorn)	6	<u>400</u> <u>basal</u> <u>dia.</u>	2	2	2	2	0	0	Mature	Fair	Good	Suppressed form	C2	4		10-20 years
T39	Quercus robur (English oak)	14	450	8	7	5.5	6	S3	1.2	Middle Age	Good	Good	Bifurcate at 3.5m; no access for inspection due to dense scrub; good form and condition	A2	5.4		40 years +
T40	Fraxinus excelsior (ash)	14	200 350	5	5	6	4	E0.5	4.5	Mature	Good	Good	No access for inspection due to dense scrub; spreading crown	B2	4		20-40 years
T41	Ulmus glabra (wych elm)	8	<u>200</u>	3	3	2	3	0	0	Semi- mature	Good	Good	Edge of group adjacent to gate; shrubby growth with spreading crown and suckers to base	C2	2.4		10-20 years
T42	Acer campestre (field maple)	8	<u>140 130</u>	4.5	4.5	4	4	not recorded	not recorded	Early Mature	Good	Good	Bifurcate at base with spreading crown	B2	1.9		20-40 years
T43	Quercus robur (English oak)	11	<u>400</u>	5.5	5.5	7	5	not recorded	not recorded	Early Mature	Good	Good	At corner of field boundaries; no access for inspection due to dense scrub; good form and condition	A2	4.8		40 years +
T44	Salix caprea (goat willow)	9	<u>1000</u> <u>basal</u> <u>dia.</u>	5.5	6	6.5	5.5	not recorded	not recorded	Early Mature	Good	Good	Large multistemmed tree on bank at boundary to field; spreading crown	C2	10		10-20 years
T45	Quercus robur (English oak)	5	<u>700</u>	2	0	0	1	NW2.5	4	Mature	Poor	Poor	Dead hollow stem to 3.5m height with one side branch to NW; no bark to root flare for 80% of stem; cavity at base; habitat value	B3	8.4	Allow stem to continue to decay as habitat feature / biodiversity value	20-40 years
T46	Quercus robur (English oak)	8	180	2.5	2.5	2.5	2.5	NE1.5	1.5	Semi- mature	Good	Good	Planted as tree to hedgerow along roadside; stake removed during survey; good form and condition with symmetrical crown; potential to develop into tree of higher category rating	B2	2.16	Avoid pruning tree when pruning hedgerow	20-40 years
T47	Prunus avium (wild cherry)	16	220	4.5	4.5	4.5	4.5	not recorded	not recorded	Semi- mature	Good	Good	No access for inspection due to dense scrub; spreading crown and vigorous growth	B2	2.64		20-40 years

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T48	Quercus robur (English oak)	8	180	2.5	2.5	2.5	2.5	not recorded	not recorded	Semi-mature	Good	Good	Planted as tree to hedgerow along roadside; stake removed during survey; good form and condition with symmetrical crown; potential to develop into tree of higher category rating	B2	2.16	Avoid pruning tree when pruning hedgerow	20-40 years
T49	Quercus robur (English oak)	8	180	2.5	2.5	2.5	2.5	NE1.5	1.5	Semi-mature	Good	Good	Planted as tree to hedgerow along roadside; stake removed during survey; good form and condition with symmetrical crown; potential to develop into tree of higher category rating	B2	2.16	Avoid pruning tree when pruning hedgerow	20-40 years
T50	Malus sylvestris (crab apple)	8	250	4.5	4	5.5	7.5	not recorded	not recorded	Early Mature	Good	Good	Tree of good form and condition; landscape and habitat value	A2, A3	3		40 years +
T51	Fraxinus excelsior (ash)	8	220	3	3.5	4	4.5	E1.5	0	Semi-mature	Good	Good	Tree growing on concrete headwall to culvert; good form and condition and symmetrical crown; likely to cause damage to culvert over time	B2	2.64		20-40 years
T52	Quercus robur (English oak)	8	690	5	3.5	5.5	4.5	N2.2	2.5	Mature	Good	Good	At edge of lorry park; ivy clad stem; previous pruning to lower stem on west side to remove branches overhanging lorry park	B2	8.28		20-40 years
T53	Quercus robur (English oak)	14	710	7.5	8	6	8.5	S4	3	Mature	Good	Good	At edge of pond; natural shedding of lower branches; prominent tree of good form and condition	A1, A2	8.52		40 years +
T54	Betula pendula (silver birch)	15	190 200	5	5	5	5	N2.5	3	Early Mature	Good	Good	Bifurcate at base with tension fork; good condition	B2	2.8		20-40 years
T55	Salix caprea (goat willow)	14	<u>1200</u> <u>basal</u> <u>dia.</u>	6	5	6	4	S0.5	1	Early Mature	Good	Good	Multistemmed at base with spreading crown extending over pond	C2	12		10-20 years
T56	Salix caprea (goat willow)	7	<u>450</u> <u>basal</u> <u>dia.</u>	0	7	4	4	S0.5	0	Middle Age	Fair	Good	Multistemmed at base and overhanging pond	C2	4.5		10-20 years

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T57	Betula pendula (silver birch)	14	220	5	4	1	5	NW3	0.5	Semi-mature	Good	Good	At pond edge	B2	2.64		20-40 years
T58	Quercus robur (English oak)	13	920	7.5	9	6.5	8.5	S1.5	0	Mature	Good	Good	At pond edge; bark loss at base of south side of stem but occluding; prominent tree; natural pruning/branch shedding	A3	11.04		40 years +
T59	Salix caprea (goat willow)	10	<u>600</u> basal dia.	4	3.5	3.5	4	not recorded	not recorded	Mature	Good	Good	Multistemmed at base and overhanging pond	C2	6		10-20 years
T60	Betula pendula (silver birch)	7	250	4	6	5	2.5	not recorded	not recorded	Early Mature	Poor	Poor	Poor form and condition	C3	3		<10 years
T61	Betula pendula (silver birch)	13	330 120	6.5	6	5.5	5	S0	0.5	Early Mature	Good	Good	At pond edge; epicormic at base and larger side stem	C2	3.2		10-20 years
T62	Salix caprea (goat willow)	10	<u>1200</u> basal dia.	6	7	5.5	6	0	0	Middle Age	Fair	Good	Multistemmed at base and overhanging pond; vigorous growth	C2	12		10-20 years
T63	Salix caprea (goat willow)	10	<u>900</u> basal dia.	5	6	4.5	5	0	0	Middle Age	Fair	Good	Multistemmed at base and overhanging pond; vigorous growth	C2	9		10-20 years
T64	Populus nigra 'Italica' (Lombardy poplar)	20	<u>1000</u>	4	6	4	5	not recorded	not recorded	Mature	Good	Good	On island no access for survey	B2	12		20-40 years
T65	Betula pendula (silver birch)	18	350 410	6.5	5.5	3.5	5	N1.8	2	Mature	Good	Good	Bifurcate at base with tension fork; good form and condition	B2	5.4		20-40 years
T66	Betula pendula (silver birch)	16	380	5.5	5.5	4	5	W1.5	1	Middle Age	Good	Good	Good form and condition	B2	4.56		20-40 years
T67	Fraxinus excelsior (ash)	14	<u>440</u>	8	3.5	7	5.5	not recorded	not recorded	Middle Age	Good	Good	No access for close inspection; appears to be of good form and condition	B1	5.28		20-40 years
T68	Crataegus monogyna (hawthorn)	6	<u>400</u> basal dia.	2.5	2.5	2.5	2.5	not recorded	not recorded	Middle Age	Good	Good	No access for survey due to dense bramble	B3	4		20-40 years
T69	Quercus robur (English oak)	18	970	9	10.5	11	8	W2	1.2	Mature	Good	Good	Prominent tree of good form and condition; wires from fence embedded in bark to stem; branch loss on south side but good occlusion	A2	11.64		40 years +
T70	Quercus robur (English oak)	17	<u>840</u>	7	9	6	8.5	N2.5	1.5	Mature	Good	Good	Prominent tree of good form and condition; bifurcate at 3.5m; cavity to	A2	10.08		40 years +

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													west at 4m and to main scaffold branch/leader; wires from fence embedded in bark to stem				
T71	Quercus robur (English oak)	18	<u>920</u>	7	8	6	6	NE2	1	Mature	Good	Good	Biased growth to east; good form and condition; minor cavity to base; natural pruning/branch collar shedding	A2	11.04		40 years +
T72	Quercus robur (English oak)	16	<u>1050</u>	6	6.5	7	7.5	N1	1	Over mature	Fair	Fair	Dieback starting in crown and beginning stages of decline in height; potential to develop into veteran; hollow and cavity at the base that may extend up into the stem; burring to stem; branch and bud structure sparser than other oaks in vicinity.	A3	12.6		40 years +
T73	Quercus robur (English oak)	16	<u>550</u>	6	7	9	11	N3	1.5	Middle Age	Fair	Poor	Loss of leader and spreading open crown with dieback; tree in decline; habitat value	B3	6.6		20-40 years
T74	Fraxinus excelsior (ash)	16	<u>440</u>	4	6	6	4.5	not recorded	not recorded	Middle Age	Fair	Fair	Sparse branching and dieback in crown	C2	5.28		10-20 years
T75	Quercus robur (English oak)	15	<u>950</u>	8	9	10	8	NW3	2	Mature	Good	Good	Prominent tree of good form and condition with wide spreading crown	A1, A2	11.4		40 years +
T76	Acer campestre (field maple)	8	<u>350</u>	4	4.5	4	3	S2	2	Early Mature	Fair	Fair	Hollow stem and in decline; dieback in crown and stunted growth; habitat value	C2	4.2		10-20 years
T77	Quercus robur (English oak)	12	<u>520</u>	5.5	8	6.5	6	NW3.5	2	Middle Age	Good	Good	Dieback to scaffold branch; dead wood to east side in upper crown; branch tear out on south side	B2	6.24		20-40 years
T78	Quercus robur (English oak)	10	<u>480</u>	5.5	7	7.5	6	S1.8	1.5	Middle Age	Good	Good	Tree of balanced crown and good form and condition	A1, A2	5.76		40 years +
T79	Quercus robur (English oak)	8	<u>500</u>	5	5	6	4.5	W2.5	1.8	Early Mature	Good	Fair	Branch tear out at 3.5m on east side with cavity, slow to occlude; balanced crown; barbed wire to stem	B2, B3	6		20-40 years

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T80	Quercus robur (English oak)	6	<u>350</u>	3.5	4.5	4.5	4	N2.5	2	Early Mature	Fair	Poor	In decline and in poor condition; leave to develop as standing dead wood	B3	4.2		20-40 years
T81	Quercus robur (English oak)	16	<u>950</u>	6	8	6.5	6.5	SW2.5	1	Mature	Good	Good	Prominent tree; bifurcate at 3.5m; good form and condition; minor dead wood and natural pruning/branch collar shedding	A2	11.4		40 years +
T82	Quercus robur (English oak)	10	<u>1100</u>	3.5	7	5.5	7	0	0	Over mature	Fair	Fair	Cavity at base of stem with dead wood; declining in stature/shrinking into veteran phase; lower stem growth	A3	13.2		40 years +
T83	Quercus robur (English oak)	14	<u>600</u>	not recorded	not recorded	not recorded	not recorded	not recorded	not recorded	Mature	Good	Good	tree to site boundary with no access for inspection; assessment based on inspection using binoculars from south aspect and distant views only.	B2	7.2		40 years +
T84	Quercus robur (English oak)	8	<u>220</u>	3.5	7	5.5	7	not recorded	not recorded	Semi-mature	Good	Good	Good form and condition; slightly suppressed by dense hedge growth; potential to grow into tree of higher category rating	B1, B2	2.64		20-40 years
T85	Quercus robur (English oak)	9	<u>440</u>	3	4	4	3.5	N3.5	2	Middle Age	Good	Good	Detailed inspection hindered by dense scrubby hedgerow; spreading crown	B1, B2	5.28		20-40 years
T86	Quercus robur (English oak)	13	<u>480</u>	4	5.5	4.5	6	SE2	1.5	Middle Age	Good	Good	Barbed wire to stem; good form and condition	A2	5.76		20-40 years
T87	Salix caprea (goat willow)	8	<u>400 basal dia.</u>	2	3.5	4	4.5	0	0	Early Mature	Good	Good	Multistemmed and spreading crown	C2	4		10-20 years
T88	Quercus robur (English oak)	10	370	4.5	6	4	5.5	W1.8	2	Early Mature	Good	Good	Bifurcate at 3.5m and good form and condition	A2	4.44		40 years +
T89	Quercus robur (English oak)	16	500 520	5	6	9	8.5	not recorded	not recorded	Mature	Good	Good	Tree with wide twin stem conjunction at the base; on land adjacent to the development area; prominent tree of good form and condition	A2	7.2		40 years +

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T90	Quercus robur (English oak)	16	600	7	8.5	8.5	7.5	not recorded	not recorded	Mature	Good	Good	On land adjacent to the development area; prominent tree of good form and condition	A2	7.2		40 years +
T91	Acer pseudoplatanus (sycamore)	6	<u>240</u>	5	5	5	5	SE3	3.5	Semi-mature	Good	Good	Good form and condition; no access for close inspection due to dense scrub	B1	2.88		20-40 years
T92	Quercus robur (English oak)	10	<u>600</u>	6.5	7	8	9	S3.5	3	Middle Age	Good	Good	Prominent tree; torn out scaffold branch and lost main leader; wounds occluding; spreading crown despite branch losses; landscape and habitat value	B2, B3	7.2		20-40 years
T93	Acer pseudoplatanus (sycamore)	7	<u>260</u>	5.5	4	4.5	4.5	NW1.5	1.8	Semi-mature	Good	Good	Good form and condition; no access for close inspection due to dense scrub	B2	3.12		20-40 years
T94	Quercus robur (English oak)	5	<u>600</u>	7	7	7	8	not recorded	2	Semi-mature	Good	Good	Multistemmed at base; growing on fence line with some congested growth; no access for close inspection	B2	7.2		20-40 years
T95	Quercus robur (English oak)	6	<u>450</u> <u>basal</u> <u>dia.</u>	2	6.5	4.5	5.5	not recorded	0	Semi-mature	Good	Good	Multistemmed at base; growing on fence line with some congested growth; no access for close inspection	C2	4.5		10-20 years
GROUPS OF TREES Crown extents taken from topographical survey and Bluesky aerial imagery; majority of groups difficult to survey stem dia. Due to dense scrub																	
G1	Predominantly scrub species: Hawthorn Blackthorn Rose species Smaller quantities of: Silver birch, ash under 75mm dbh Goat willow Elder	up to 12	not recorded	see plan 274/T/100-116				not recorded	0	Middle Age	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm dbh; Centre line of group former hedgerow now overgrown with blackthorn suckering and forming dense scrub; good low level screening and habitat value but limited number of trees to increase to a higher category rating. May develop into group of	B2	see plan		20-40 years

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W	Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BSS837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
										higher category rating as tree species establish.				
G2	Blackthorn Hawthorn Holly Silver birch and Oak saplings under 75mm dbh	up to 6	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm dbh; group extends out from former hedgerow and is mostly blackthorn suckering and forming dense scrub; good low level screening and habitat value but limited number of trees to increase to a higher category rating.	C2	see plan		10-20 years
G3	Predominantly scrub species: Hawthorn Blackthorn Rose species Smaller quantities of: Goat willow to south edge of group	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub with blackthorn suckering; good low level screening and habitat value but limited number of trees to increase to a higher category rating.	C2	see plan		10-20 years
G4	Predominantly scrub species: Hawthorn Blackthorn Rose species Goat willow Silver birch Smaller quantities of: Field maple Oak Sycamore White willow Crab apple	up to 16	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age to Mature	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm dbh and occasional larger individuals approx 30, probably former hedgerow trees; Centre line of group former hedgerow now overgrown with blackthorn suckering and forming dense scrub; good landscape and habitat value, forms a defined boundary along the lorry car park; extends up to edge of pond with occasional willow species.	B2	see plan		20-40 years
G5	Predominantly willow species: Goat willow Smaller quantities of: White willow Silver birch	up to 18	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly willow species with areas of blackthorn and hawthorn on drier ground; occasional crab apple and silver birch; good low level screening	C2	see plan		10-20 years

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W	Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
	Blackthorn Hawthorn Field maple									and habitat value but limited number of species diversity to increase to a higher category rating. Natural regen of willow and silver birch to edges of group.				
G6	Small group: Goat willow Silver birch White willow	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Small group to edge of field; low value in the landscape	C2	see plan		10-20 years
G7	Predominantly scrub species: Hawthorn Blackthorn Rose species Goat willow Field maple Crab apple	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Fair	Scrub with occasional field maple and crab apple but not forming a distinct feature with gaps between larger individuals.	C2	see plan		10-20 years
G8	Predominantly scrub species: Hawthorn Blackthorn Rose species Goat willow Crab apple Ash Gean	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub to east of G9 ash, following line of ditch; blackthorn suckering and forming dense scrub; good low level screening and habitat value occasional larger individuals of hawthorn, Gean and crab apple but limited number of trees to increase to a higher category rating.	C2	see plan		10-20 years
G9	Linear group of ash (15)	up to 16	up to 670	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Linear group of ash alongside hedgerow to Bryn Lane; prominent feature in the landscape; generally good form and condition with no visible signs of ash dieback (ADB) at time of inspection; recommend summer inspection to assess health of crown for signs of ADB. Minor dead wood and broken branches where heavily shaded by	A2	see plan		20-40 years

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										hedgerow and scrub; some trees with included bark and compression forks.				
G10	Goat willow	up to 8	stems up to 220	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Fair	Group of willow to south west corner of lorry park adjacent to brick buildings; single and multistemmed with spreading crowns; some pruning to reduce branches back to fence line has recently been carried out.	C2	see plan		10-20 years
G11	Oak (8) Silver birch Crab apple	up to 8	up to 250	see plan 274/T/100-116	not recorded	0	Semi-mature	Good	Good	Group of self-set oak with silver birch to north and crab apple; establishing well and potential to develop into group of higher category rating.	B1, B2	see plan		20-40 years
G12	Hawthorn Blackthorn Rose species Silver birch Field maple Oak Goat willow White willow	up to 14	not recorded	see plan 274/T/100-116	not recorded	0	Semin-mature to middle age	Good	Good	Predominantly blackthorn and hawthorn scrub to drier ground with willow species to pond margin; good low level screening with habitat value occasional larger trees within group.	B2, B3	see plan		20-40 years
G13	Goat willow Occasional hawthorn	up to 8	stems up to 280	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Willow to pond edge with majority of crown overhanging pond; multistemmed with spreading habit and low crown; one larger individual with basal diameter over 1200; several individuals with broken branches and fallen into pond	C2	see plan		10-20 years
G14	Hawthorn	up to 10	<u>300 300</u> <u>500BD</u>	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Three individual hawthorn forming small distinct group within an area of bramble and ruderal growth; low crown growth	C2	see plan		10-20 years
G15	Goat willow Hawthorn Blackthorn	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm	C2	see plan		10-20 years

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W	Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
	Silver birch Oak Ash									dbh; Centre line of group former hedgerow now overgrown with blackthorn suckering and forming dense scrub; good low level screening habitat value but limited number of trees to increase to a higher category rating. May develop into group of higher category rating as tree species establish.				
G16	Predominantly scrub species: Hawthorn Blackthorn Rose species Field maple Silver birch Lower proportion of: Oak Goat willow Symphoricarpos	up to 14	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm dbh; blackthorn suckering and forming dense scrub; good low level screening and habitat value but limited number of trees above 75mm dbh to increase to a higher category rating. May develop into group of higher category rating as tree species establish.	C2	see plan		10-20 years
G17	Silver birch (6)Sycamore (7)	up to 12	up to 280	see plan 274/T/100-116	not recorded	0	Semi- mature	Good	Good	Group of trees forming an L-shape; generally good form and condition, one silver birch leaning to north.	B2	see plan		20-40 years
G18	Regeneration of Silver birch Sycamore Hawthorn Blackthorn	up to 6	not recorded	see plan 274/T/100-116	not recorded	0	Semi- mature	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm dbh; no access onto adjacent land for thorough inspection	C2	see plan		10-20 years
G19	Natural regeneration under 75mm dbh silver birch, field maple, oak, blackthorn, hawthorn, goat willow, with larger goat willow to east end of building	up to 12	up to 100mm	see plan 274/T/100-116	not recorded	0	Young	Good	Good	Self-set natural regeneration	C2	see plan		10-20 years

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G20	Hawthorn Field maple	up to 10	<u>up to 600 BD</u>	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Individual hawthorn and field maple to embankment to south boundary of site; all good form and condition; low crown to ground level with many multistemmed at base	B2	see plan		20-40 years
G21	Silver birch	up to 18	up to 250	see plan 274/T/100-116	not recorded	0	Semi- mature	Good	Good	Prominent group of silver birch on a knoll to north of mixed species group G22. 7 Single and twin-stemmed individuals with occasional hawthorn	B2	see plan		20-40 years
G22	Silver birch Field maple Goat willow Hawthorn Sycamore Alder	up to 16	up to 240	see plan 274/T/100-116	not recorded	0	Semi- mature	Good	Good	Mixed species group to south of G21 good form and condition and value as a screening group and landscape feature	B2	see plan		20-40 years
G23	Predominantly scrub planting to ditch with occasional trees Blackthorn Hawthorn Field maple Goat willow Oak Crab apple Silver birch white willow Guelder rose Italian alder	up to 10	not recorded	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	Predominantly scrub with establishing tree species emerging from linear group; trees up to estimated 250mm dbh; linear group is a strong landscape feature when viewed from the east; good screening and habitat value	B2, B3	see plan		20-40 years
G24	Blackthorn Hawthorn	up to 5	not recorded	see plan 274/T/100-116	not recorded	0	Semi- mature	Good	Good	Area of scrub with low crown	C2	see plan		10-20 years
G25	Goat willow White willow Hawthorn Blackthorn	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	No access for safe closer inspection; mixed species scrub and willow on banks around pond/reservoir	C2	see plan		10-20 years
G26	Predominantly scrub with some tree species: Blackthorn Hawthorn Crab apple	up to 10	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub; Centre line of group former hedgerow now overgrown with blackthorn suckering and forming dense scrub;	B2, B3	see plan		20-40 years

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W	Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
	Field maple Goat willow Silver birch occasional oak under 75mm dbh									good low level screening and habitat value.				
G27	Goat willow White willow	up to 10	not recorded	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	Multistemmed trees around pond and in damp ground; low branching and spreading crowns; broken branches particularly at water level.	C2	see plan		10-20 years
G28	Scrub: Blackthorn Hawthorn Buddleia Goat willow Silver birch Dogwood	up to 10	not recorded	see plan 274/T/100-116	not recorded	0	Young	Fair	Fair	Predominantly scrub with natural regeneration of tree species below 75mm dbh growing on spoil heap.	C2	see plan		10-20 years
G29	Mainly : Goat willow White willow Hawthorn With occasional: Oak and ash under 80mm dbh Blackthorn	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Middle Age	Good	Good	Predominantly scrub with natural regeneration of tree species below 75mm dbh; Centre line of group former hedgerow now overgrown with blackthorn suckering and forming dense scrub; good low level screening habitat value but limited number of trees to increase to a higher category rating. May develop into group of higher category rating as tree species establish.	C2	see plan		10-20 years
G30	Blackthorn Hawthorn	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Young to Middle age	Good	Good	Scattered individual trees to banks at field boundary to east and west of good form and condition; remaining area covered with ruderal growth and bramble	C2	see plan		10-20 years
G31	Goat willow White willow Hawthorn Silver birch	up to 12	not recorded	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	Individual scattered trees along embankment to pond; low crown clearance	C2	see plan		10-20 years

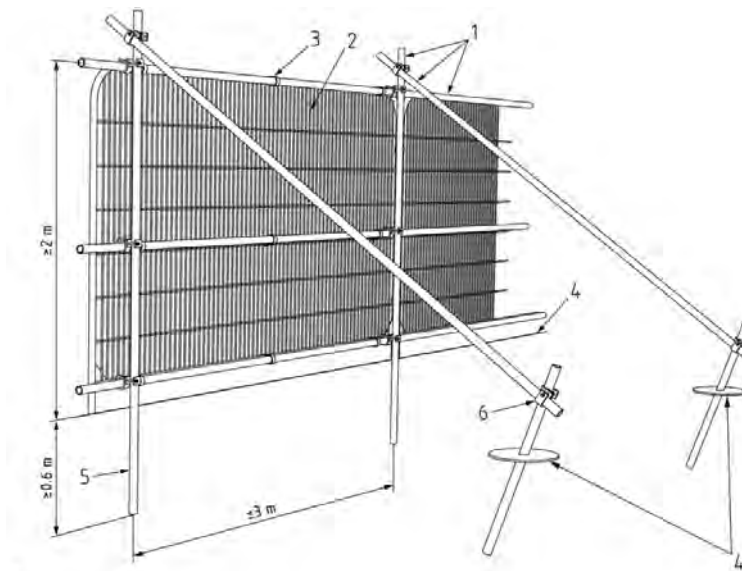
Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W	Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
G32	Blackthorn Hawthorn	up to 18	up to 420	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	Group of approx 60 trees to corner of field with understorey of scrub: Silver birch Ash Hawthorn Field maple Goat willow	B2	see plan		20-40 years
G33	Goat willow White willow	up to 10	not recorded	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	Multistemmed trees around pond and in damp ground; low branching and spreading crowns; broken branches particularly at water level.	C2	see plan		10-20 years
WOODLAND - Only the frontage of the woodland was surveyed, however where different species were noted to the north of the ditch/stream, these have been noted														
W1	To side of ditch to field boundary - remnant hedgerow forming edge to woodland including: Hawthorn Field maple Blackthorn Rose species Within woodland: Ash Oak White willow Grey willow Sycamore Holly Crab apple Wych elm	up to 25	not recorded	see plan 274/T/100-116	not recorded	not recorded	young to overmat ure	good to veteran	good to veteran	Remnant hedge forms edge of woodland to north of ditch/stream, with encroaching scrub of hawthorn and blackthorn. Trees vary from young natural regen to over mature veterans, of which two of potential veteran status were recorded to the north east boundary. Good species diversity. Woodland understorey and ground flora present, however due to impeded access and as the area was outside the survey scope, a thorough inspection was not undertaken. Prominent woodland forming good landscape screen to new and existing warehouses within the industrial estate; high landscape and habitat value; significant green infrastructure connections. Several large mature trees have high habitat value.	A2, A3	see plan		40 years +

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HEDGEROW														
H1	Hawthorn Field maple Blackthorn Rose species	3	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature hedgerow over 30 years, has not been recently managed; spreading crown; oak hedgerow trees present				
H2	Hawthorn Field maple Blackthorn mostly spreading from adjacent scrub Rose species	7	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature hedgerow over 30 years, has not been recently managed; spreading crown				
H3	Hawthorn Blackthorn Rose species Goat willow Crab apple Field maple	7	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature hedgerow over 30 years, has not been recently managed; spreading crown; oak hedgerow trees present				
H4	Hawthorn Field maple Blackthorn Rose species	5	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature hedgerow over 30 years, has not been recently managed; spreading crown				
H5	Hawthorn Blackthorn Rose species	5	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature hedgerow over 30 years, has not been recently managed; spreading crown				
H6	Blackthorn Rose species Field maple	2	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Fair	Fair	High proportion of bramble present; has been recently felled to fence height and faced.				
H7	Hawthorn Field maple Occasional: Hazel Rose species Oak - standard trees	up to 7	not recorded	see plan 274/T/100-116	not recorded	0	Early Mature	Good	Good	Robust hedge planted at 5 per linear metre in double staggered row; maintained to road side but not pruned to east; spiral guards still present				
H8	Hawthorn Blackthorn Field maple Rose species	up to 3m	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature robust hedgerow over 30 years, has been recently managed but has spreading crown; trees within hedgerow				

Tree ref T - individual G - Group W - Woodland H - Hedgerow V-Veteran	Species Latin name Common name	Height (m)	Stem dia. (mm) basal dia. (BD)	Crown spread (Where not measured on site, dimensions have been calculated using Bluesky aerial imagery) N S E W	Direction and height of lowest branch (m)	Height of crown clearance (m)	Maturity Young; Semi- mature; Middle Age; Early mature; Mature	Structural condition Good; Fair; Poor; Veteran	Physiological condition Good; Fair; Poor; Veteran	Comments on form condition, health and significant defects	BS5837 Tree Quality Category A, B, C, U (1,2,3)	Radius of RPA (m)	Management recommendations Reinspect all retained trees two years from survey date	Estimated remaining contribution less than 10yrs, 10- 20, 20-40, 40yrs+
H9	HawthornBlackthornField mapleRose species	up to 3m	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature robust hedgerow over 30 years, has been recently managed but has spreading crown; trees within hedgerow				
H10	Hawthorn Blackthorn Field maple Rose species	up to 3m	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature robust hedgerow over 30 years, has been recently managed but has spreading crown; trees within hedgerow				
H11	Hawthorn Blackthorn Field maple Rose species	up to 3m	not recorded	see plan 274/T/100-116	not recorded	0	Mature	Good	Good	Mature robust hedgerow over 30 years, has been recently managed but has spreading crown; trees within hedgerow				

APPENDIX 2 – EXAMPLES OF TREE PROTECTION SYSTEMS

(Extracts taken from BS5837: (2012), “Trees in relation design, demolition and construction – Recommendations”.)

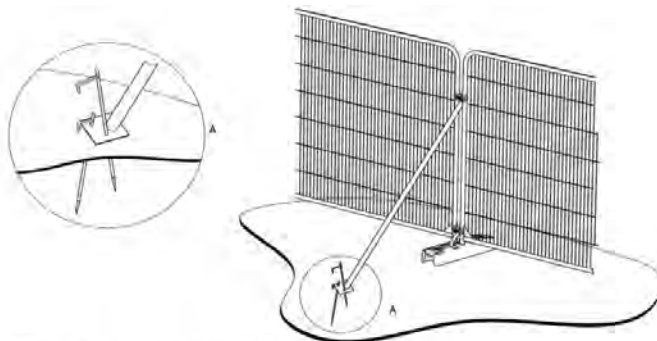


Key

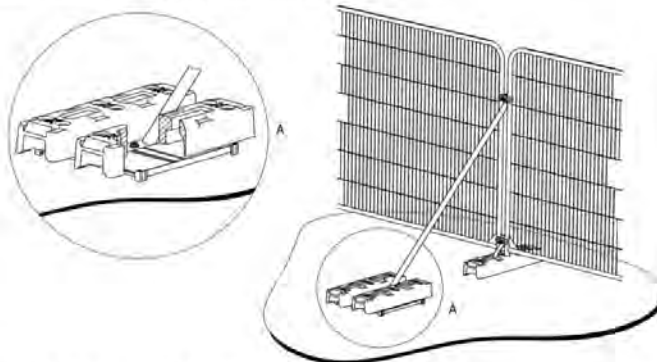
- 1 Standard scaffold poles
- 2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
- 3 Panels secured to uprights and cross-members with wire ties
- 4 Ground level
- 5 Uprights driven into the ground until secure (minimum depth 0.6 m)
- 6 Standard scaffold clamps

11.

Default specification for protective barrier



a) Stabilizer strut with base plate secured with ground pins



12. b) Stabilizer strut mounted on block tray

APPENDIX 3 – TREE PROTECTION SIGNAGE



TREE PROTECTION FENCING

**THIS FENCE MUST BE MAINTAINED
IN ACCORDANCE WITH THE
APPROVED METHOD STATEMENT
AND DRAWINGS FOR THIS
DEVELOPMENT**



TREE PROTECTION AREA

**ACCESS INTO THIS AREA IS
PROHIBITED FOR THE DURATION OF
THE DEVELOPMENT IN ACCORDANCE
WITH THE APPROVED METHOD
STATEMENT FOR THIS DEVELOPMENT**

APPENDIX 4 3D CELLULAR CONFINEMENT SYSTEM, e.g. CELLWEB TRP OR EQUIVALENT PRODUCT



Cellweb® TRP is a 3D cellular confinement tree root protection system. The system provides a 'no dig' solution for the construction of new hard surfaces within root protection areas (RPAs). Cellweb® TRP has been designed and independently tested to comply with recommendations made in Arboricultural Practice Note 12 and BS 5837 2012 – Trees in relation to design, demolition and construction.



Cellweb® TRP Key Functions

Cellweb® is a 'no dig' solution which is constructed directly on the existing ground surface. This eliminates the requirement for excavation, preventing root severance.

Cellweb® is a completely porous system allowing continued water permeation and gas exchange between the rooting environment and atmosphere.

Cellweb® spreads point loads, minimising increases in soil compaction within the rooting environment. This maintains an open graded soil structure allowing continued root growth, water, gas and nutrient migration.

The Cellweb® TRP system comprises the following three components

Treetex™ Geotextile. Following minimal ground preparation the Treetex™ is laid onto the existing ground and top soil. This acts as a separation layer, separating the system above from the soil and rooting environment below. Treetex™ performs as a hydrocarbon pollution control measure in accordance with BS5837, holding 1.7lt of oil per square meter.

Cellweb® 3D Cellular Confinement. The Cellweb® is installed on top of the Treetex™ layer. This is fixed to the ground using ten steel J pins per panel. The panels can be cut to the required shape and adjoining panels can be connected using heavy duty staples or cell ties.

4-20mm Clean Angular Stone. The expanded Cellweb® is infilled with a 4-20mm clean angular stone. The confined angular stone locks together to produce a rigid stone mattress, while maintaining air pockets for continued water permeation and gas exchange. The low fines content of the stone prevents the Treetex™ layer from becoming blocked over time.

Which depth of Cellweb® TRP?

The Cellweb® System is provided in four different depths; 200mm, 150mm, 100mm and 75mm. The depth required is determined by the proposed traffic loadings and the site ground conditions. Geosynthetics in house engineering department can provide a free site specific technical recommendation. For free technical and engineering support please contact Geosynthetics Ltd 01455 617139 or the full installation guide can be found on our website www.geosyn.co.uk.

Indicative Cellweb with overfill



Web: www.geosyn.co.uk | Tel: 01455 617139
Fax: 01455 617140 | Email: Sales@geosyn.co.uk



Geosynthetics
Engineered Solutions

APPENDIX 5 – ARBORICULTURAL INSPECTION PROFORMA

Part 1 Project details

RECORD OF ARBORICULTURAL INSPECTION			Inspection by	Marianne Dobson FdSCArb, MArborA, Lantra certified in Professional Tree Inspection	Visit number			Date of visit
			Signed		Work stage			
			Accompanied by		Activities inspected			
			Signed		Weather conditions			
PROJECT DETAILS								
	Kingmoor and address		Drawing Title		Drawing Number		Version	
	Planning application reference							
	Tree Preservation Order and/or Conservation Area Details							
	Other Site Constraints							
	<i>Add other information as required</i>							

Part 2 Record of arboricultural inspection – *inspections will generally be undertaken every 4-8 weeks depending on progress of the works and complexity, unless specific visits are programmed to coincide with planned site activities. Planned dates to be entered in the table once programme of works is known.*

Ref	Work stage <i>Add or delete as relevant to specific works</i>	Activity requiring on site attendance by Arboriculturist <i>Add or delete as relevant to specific works</i>	Planned date of inspection	Actual date of inspection	Inspection details and comments	Compliance with AMS	Follow up action required
1	Advance works	Prestart meeting for tree works					
		Marking out for trees to be removed					
		Commencement of tree works					
		Completion of tree works					
		Commencement of installation of tree protection fencing					
		Completion of installation of tree protection fencing					
		Periodic monitoring (depending on timing of specific inspection visits)					
2	Site clearance and demolition	Toolbox talk					
		Removal of above ground structures within the crown spread or RPA of trees to be retained					
		Removal of hard standing and below ground structures or features within the crown spread or RPA of trees to be retained					
		Periodic monitoring (depending on timing of specific inspection visits)					
3	Construction works	Toolbox talk					
		Excavation or works within RPA of trees to be retained					
		Reprofiling of ground levels within RPA of trees to be retained					

Ref	Work stage <i>Add or delete as relevant to specific works</i>	Activity requiring on site attendance by Arboriculturist <i>Add or delete as relevant to specific works</i>	Planned date of inspection	Actual date of inspection	Inspection details and comments	Compliance with AMS	Follow up action required
		Installation of services within RPA of trees to be retained					
		Installation of ground protection below temporary hard standing within RPA of trees to be retained					
		Installation of ground protection below permanent hard standing within RPA of trees to be retained					
		Periodic monitoring (depending on timing of specific inspection visits)					
4	Landscape reinstatement	Toolbox talk					
		Soiling within RPA of trees to be retained					
		Land drainage within RPA of trees to be retained					
		Turfing and Seeding within RPA of trees to be retained					
		Planting within RPA of trees to be retained					
		Periodic monitoring (depending on timing of specific inspection visits)					
5	Completion	Removal of tree protection fencing					
		<i>Add other activities as required relevant to the project and construction activities</i>					

Part 3 Follow up actions identified during inspection

Ref	Follow up action required	Date completed	Comments and / or photographs from site team	Follow up or close out

Part 4 Evidence of arboricultural inspection

	PHOTOGRAPHS TAKEN DURING SITE VISIT	Date

Part 5 Circulation of record of inspection

	RECORD OF INSPECTION ISSUED BY		
	<i>Print name</i>	<i>Signature</i>	<i>Date</i>

RECORD OF SITE INSPECTION ISSUED TO THE FOLLOWING

ISSUE	PROJECT CONTACTS	NAME	CONTACT NUMBER	EMAIL ADDRESS	ROLES AND RESPONSIBILITIES FOR ARBORICULTURAL ISSUES ON SITE
☐	Project Manager				• Delivery of project and compliance with legal requirements and planning consents relating to the project
☐	Site Construction Manager				• Ensure compliance with the Arboricultural Method Statement, monitor performance of construction site staff and sub-contractors and maintain records to demonstrate compliance with and implementation of the Arboricultural Method Statement; and • Main contact for any Third Party queries and shall keep a record of any Third Party contacts and any follow up actions that may be taken.
☐	Site Manager with responsibility for environmental compliance / Environmental Advisor / or Environmental Clerk of Works				• Delivery of tool box talks for inductions of construction site staff and sub-contractors to ensure arboricultural protection methods are effectively communicated to the site team; • Undertake daily audits of tree protection fencing, ground protection fencing and compliance with the Arboricultural Method Statement; and • Liaises and cooperates with the Arboricultural Consultant at each site inspection and for the duration of the project
☐	Arboricultural Consultant				• Delivery of initial tool box talk for construction site staff to ensure arboricultural protection methods are effectively communicated to the site team; • Undertake site inspections at key work stages identified in the programme and at 8 weekly intervals during the course of the construction project; and • Report to the Local Planning Authority within 3 days of each inspection
☐	Site construction team and sub-contractors	Updated information on arboricultural constraints to be issued to site team as part of regularly site briefings, inductions and tool box talks			• Work to agreed Arboricultural Method Statements, plans and procedures and minimise environment impacts; • Understand the importance of maintaining arboricultural protection on site and maintaining the integrity of the tree protection fencing; • Understand the importance of avoiding pollution, including silt run-off, dust, escape of fuel, chemicals, cement and concrete; • Report all incidents immediately to the Environment Site Manager; and • Monitor the site for potential environmental risks and engage with co-workers to be proactive and ensure method statements, plans and procedures are complied with
☐	Third Party Co-ordinator / Project Co-ordinator / Customer Co-ordinator				• Liaison with Local Planning Authority, stakeholders and Third parties
☐	Arboricultural Contractor				• Undertake tree removal and pruning requirements prior to commencement of construction; • Works to be in accordance with approved planning drawings; and

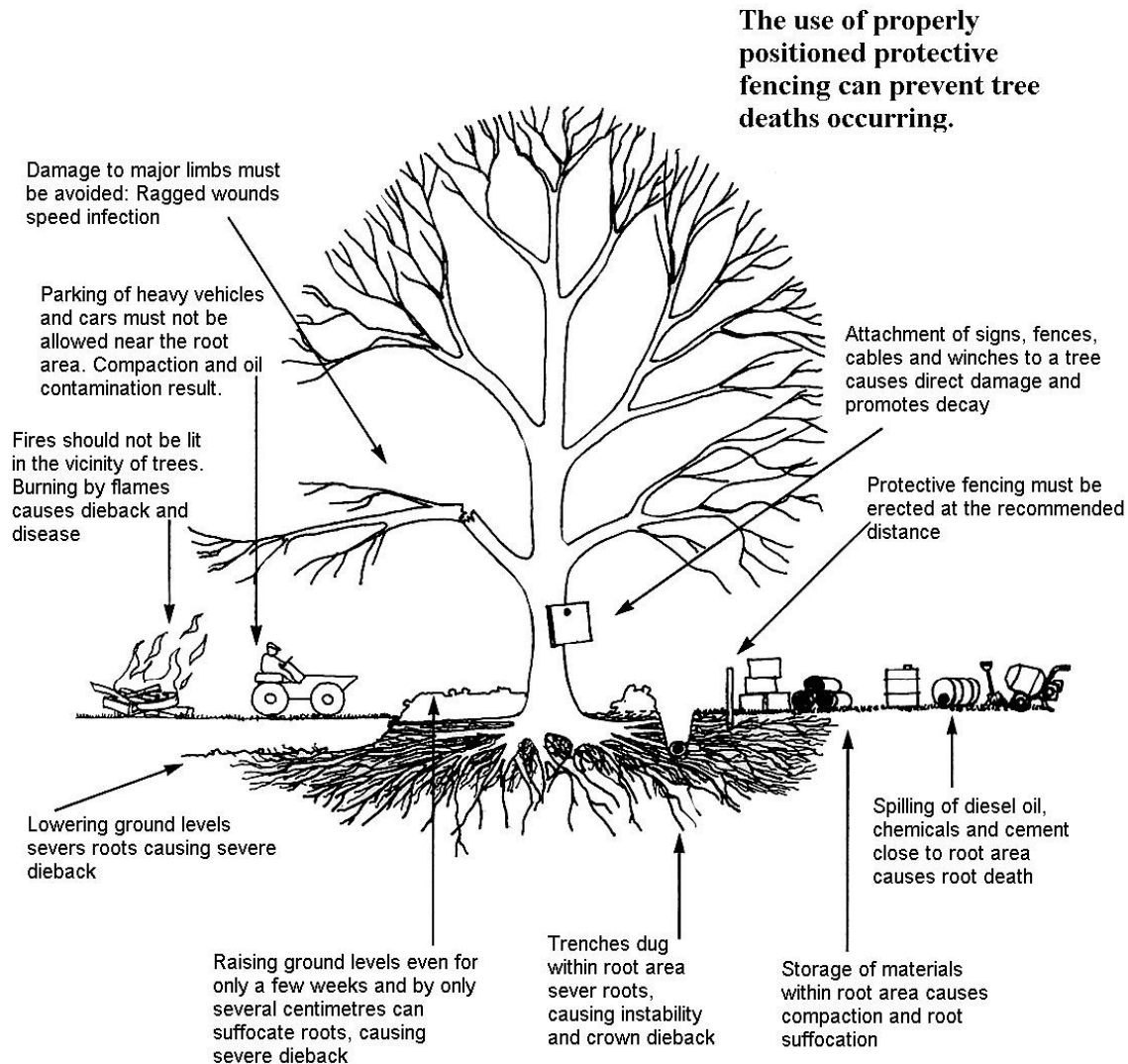
ISSUE	PROJECT CONTACTS	NAME	CONTACT NUMBER	EMAIL ADDRESS	ROLES AND RESPONSIBILITIES FOR ARBORICULTURAL ISSUES ON SITE
					• Works to be undertaken with regard to environmental and ecological constraints, such as nesting and breeding birds, bats, proximity to watercourse
☐	Ecology Consultant				• Advise on ecological constraints at the site
☐	Local Authority, include Tree Officer details where known				
	<i>Additional contacts</i>				

Part 6 Reporting procedure:

- a) Undertake site inspection and record comments (Parts 2);
- b) Discuss any follow up actions immediately with the responsible person on site for environmental compliance and set date for completion of actions (Part 3) where possible rectification works should be undertaken as soon as possible, exceptions to this may include works to protected trees that requires additional consent or work that may require LPA approval before proceeding;
- c) Add evidence of rectification works or follow up actions to inspection record in Part 3;
- d) Add photographic record of site visit inspection in Part 5; and
- e) Issue record of inspection to nominated person for liaison with Local Planning Authority (LPA) or direct issue of record of inspection to LPA, project team and site team as per circulation list.

APPENDIX 6 – COMMON CAUSES OF TREE DEATH POSTER

Common causes of Tree Death



Please use copies of this as an on-site poster for personnel

APPENDIX 7 - GLOSSARY OF TERMS

Maturity	Newly planted - Not fully established and capable of being transplanted or easily replaced
	Young - Establishing, usually with good vigour, still capable of being transplanted or replaced
	Early mature - Established, usually vigorous and increasing in height
	Semi-mature – Established with an overall height in excess of 4 metres and or a stem girth measurement (circumference) of 20 centimetres or larger;
	Middle Age - Trees in the established growth stage of their life with the potential to continue increasing in size;
	Mature - Trees that have reached their ultimate size, given their location and surroundings;
	Over-mature - Fully mature, in last quarter of life expectancy, vigour decreasing
Condition	Good, Fair, Poor. An overall assessment of a tree's physiological and structural state
Veteran	Trees that have biological, cultural or aesthetic value due to age and / or condition. Typically trees that may be living beyond their expected age range for their species
BS 5837 Tree Quality Assessment	The tree quality assessment is based on four categories (A, B, C and U) are used to denote tree quality (A= High, B = Moderate, C = Low, U= Unsuitable for retention). Subcategories (1-3) denote the specific function value of the trees and the reasoning behind the allocation of a specific category.
Root Protection Area (RPA)	The theoretical rooting area of a tree as defined in <i>BS5837: 2012</i> . RPA is allocated to ensure that a sufficient area is left undisturbed during development. It is provided as an area (m ²) and as the radius of a circle (m) typically plotted from the centre of the stem.
Estimated Remaining Contribution	The approximate life expectancy as healthy functioning tree and relates to species and the condition of the tree at the time of survey. Long > 40 years Medium 20 – 40 years Short – Medium 10- 20 years Short - Imminent removal <10years
Adventitious or Epicormic shoots	Small branches that grow in clusters around the stem or base of a tree in an uncharacteristic fashion for a normally healthy tree, usually at the site of pruning wounds or as an indicator of stress
Bifurcate	Divided into two branches or forks
Buckling	Deformation of a structure subjected to a bending load Buttress zone, irreversible.
Chalara – Ash dieback	Chalara dieback of ash, also known as Chalara or ash dieback, is a disease of ash trees caused by a fungus called <i>Hymenoscyphus fraxineus</i>
Decurrent	The tree crown is borne on several major wide spreading limbs of similar size
Defect	A feature which detracts from the uniform distribution of mechanical stress, or which makes the tree mechanically unsuited to its environment
Dieback	A condition in which a tree or shrub begins to die from the tip of its leaves or roots backwards, owing to disease or an unfavourable environment.
Disease	A malfunction or destruction of tissues usually caused by pathogens.
Dominance	The tendency for a leading shoot to grow faster than the lateral shoots; also a tree that maintains a taller crown than its neighbours.
Excurrent	A well-defined central main stem to the crown, bearing branches which are limited in their length, diameter and secondary branching.
Flush-cut	A pruning cut which removes part of the branch bark ridge and or branch-collar.
Girdling root	A root which circles and constricts the stem.

Hazard beam	An upward curving part of a tree in which strong internal stresses may occur without being reduced by adaptive growth; prone to longitudinal splitting or may form a banana shaped crack.
Included bark (ingrown bark)	Bark of adjacent parts of a tree (usually forks, acutely joined branches or basal flutes) which is in face-to-face contact.
Infection	The establishment of a parasitic micro-organism in the tissues of a tree or other organism.
Lopping	Removal of large branches from a tree that does not follow natural target pruning practices.
Natural target pruning	The siting of pruning cuts at the branch bark ridge with a cut of minimal surface area to allow quicker healing of the wound.
Occlusion	The process of continual radial growth and healing of a wound which is progressively closed by the formation of new wood and bark around it.
Plant pathogen	Infectious organism that causes a disease on a plant. Although relatives of some plant pathogens are human or animal pathogens, most plant pathogens only harm plants. Plants are rarely cured of disease once infected.
Pollarding	The removal of the tree canopy, back to the stem or primary branches. The management regime is usually repeated as part of a regular management programme.
Primary branch	A major branch, of greater order than secondary branches.
Pruning	The removal or cutting back of lesser branches or twigs.
Reactive Growth/ Reaction Wood	Production of woody tissue in response to mechanical stresses.
Root-collar	The transitional area between the stem/s and roots prior to development of a root flare or buttress.
Secondary branch	A branch, of lower order than primary branch.
Veteran tree	An aged old specimen that has features which increase its value as habitat for wildlife (dead wood, cavities etc.) irrespective of its chronological age and that is of interest biologically, culturally or aesthetically because of its age, size or condition, is usually of advanced age.
Windthrow	The fall of a tree in high wind, blowing over of a tree at its roots.
Wound wood	Wood developing in response to a wound which gradually heals and occludes the wound