



WE KNOW SERVICES

ARBORICULTURAL IMPACT ASSESSMENT

Site

Meadow Park School

Client

Meadow Park School

Report Date

September 2022

Version

First Issue

We Know Services
Court Hey Park, Roby Road, Huyton L16 3NA
E: info@weknowservices.co.uk
www.weknowservices.co.uk

Ref: 22/00041/AIA
Author: Jonathan Henderson
Qualifications: B.Sc Hons, TechArborA

Arboricultural Impact Assessment – Meadow Park School

Quality Assurance

The information which the author has prepared and provided is true and has been prepared and provided in accordance with the Arboricultural Association's Code of Ethics and Conduct. We confirm that the opinions expressed within this report are true and represents the author's professional opinions.

Disclaimer

The report has been prepared for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and the author. No other warranty, expressed or implied, is made as to the professional advice included in this report. Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by the author for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report assume that all relevant information has been supplied by those bodies from whom it was requested. No part of this report may be copied or duplicated without the express permission of the author and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Contents

1	Introduction	1
2	Site Information.....	2
2.1	Site Description.....	2
2.2	Proposals Description.....	2
2.3	Statutory Designations	2
3	Survey Methodology	2
4	Survey Results.....	3
5	Impact Assessment.....	4
6	Mitigation Proposals.....	5
6.1	Replacement Tree Planting.....	5
7	Summary and Conclusion	6
	Appendix 1.0 Tree Survey Schedule	7
	Appendix 2.0 Tree Survey Key.....	11
	Appendix 3.0 Proposed Development Plans.....	13
	Appendix 4.0 Arboricultural Plans	15

1 Introduction

We Know Services were instructed by Meadow Park School to undertake an BS5837:2012 arboricultural survey of the tree features within and adjacent to the red line boundary at Meadow Park School, Haswell Drive, Stockbridge Village L28 1RX.

This report details the arboricultural implications of developing the site, including a survey of the trees on and near the development which may impact the proposal.

- A. A survey of the trees on and near the development which may impact the proposal.
- B. A tree schedule.
- C. Advice on the removal, retention, and management of trees.
- D. Assessment of the potential effects of the proposal on retained trees and vice versa.
- E. Assessment of the requirement for tree protection for the duration of the works
- F. Mitigation proposal for any loss.

The survey was undertaken on 12th September 2022 by means of visual inspection from ground level by an experienced and qualified arboriculturalist. The inspection can be restricted in cases where trees were Ivy clad or surrounded by vegetation.

Under *BS5837: 2012 Trees in Relation to Construction - Recommendations*, the assessment of trees is made objectively. The tree categorisation method identifies the quality and value of the existing tree stock, allowing informed decisions to be made concerning development design layout.

The following document was made available by the client:

- Drawing – Front Fencing Plan

The supplied drawing did not include tree positions plotted. All trees have been added to the drawing indicatively. Any dimensions regarding tree positions and protective fencing must be checked on site.

The survey was carried out noting the conditions of the trees at the time of inspection. As trees are part of the natural environment, conditions can naturally change; therefore, the contents of this report are valid for one year only. After this period, re-inspection may be required.

Until planning permission is obtained, no tree work should be undertaken on site following the issue of this document. Once planning permission is obtained, only the works recommended within this document should be undertaken unless permission is obtained from the local planning authority.

2 Site Information

2.1 Site Description

The site consists of a school and all the associated buildings and features. To the north of the site is an area of woodland, to the east of the site is Haswell Drive, to the South and West of the site there are residential properties.

2.2 Proposals Description

The proposals indicate that a fence located in the south-western corner of the site is to be removed and replaced with a 2.4m high fence. The fence will replace the one currently residing in the marked area and will join up with the existing school perimeter fence.

2.3 Statutory Designations

A check for tree preservation orders and conservation areas was undertaken on 20/09/22 using Knowsley Councils online My Neighbourhood map, the results showed that there are no preservation orders on site and the site is not within a conservation area.

3 Survey Methodology

The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in Appendix 1.0. Where groups are recorded, average height and diameter at breast height (DBH) of the trees in the group are reported. Where access to the base of any trees was limited, stem size was estimated.

All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in Appendix 2.0.

Where appropriate, canopy spread for each tree was recorded at four cardinal points to reproduce an accurate representation of the crown shape of the tree on the tree plan in Appendix 3.0.

The survey included all trees within the proposal area and trees near to the proposal.

4 Survey Results

The survey identified eleven tree features on site consisting of five individual trees, five groups and one woodland group.

Of these, five tree features were classed as category B and four features were classed as category C. The remaining two tree features on site were classed as category U.

Most of the trees on site, apart from those mentioned below, were found to be in good condition requiring no remedial works.

T6

Upon inspection of W5, T6 was found adjacent to an outdoor building. This tree was dead and because of its degraded condition it appeared to have been dead for a while. Because of the location of this tree and the use of this site, it is recommended that it is removed regardless of any proposals.

T8

Upon inspection of T8, a Willow, the stem was found to have failed and was hung up in the adjacent shrubbery. Because of this failure, it is recommended that this tree is removed regardless of any proposals.

5 Impact Assessment

Table 5.1: Impact Table

Tree No.	RPA Radius	Distance to Proposed Development A (m)	RPA Incursion (m ²)	RPA Incursion (%)	Can the tree/s be successfully retained?
T1	5.40	44.1	0	0.0%	Yes
T2	4.33	50.6	0	0.0%	Yes
T3	2.46	33.7	0	0.0%	Yes
G4	4.20	80.5	0	0.0%	Yes
W5	3.60	44.5	0	0.0%	Yes
T6	Remove due to condition				
G7	4.20	See Plan	2.3	0.3%	Yes
T8	Remove due to condition				
G9	3.00	23.9	0	0.0%	Yes
G10	1.80	See Plan	21.5	7.9%	Yes
G11	1.80	See Plan	3.45	16.7%	No

Table 5.2 Impact Assessment

	Trees to be retained		Trees to be removed	
	With no impact	With detailed construction	Due to condition	Due to development
Tree No.	T1, T2, T3, G4, W5, G7, G9, G10		T6, T8	G11

Due to the proposals, a total of two groups are proposed for removal.

G11

To accommodate the proposals, it is recommended that G11 is removed. G11 provides a low amenity value to the area, and it is considered that the removal of this feature will not have a detrimental impact. It is recommended that this feature is replaced as part of a tree replacement scheme.

Tree Protective Fencing

Because of the location of the remaining features, it has been considered that tree protective fencing is not required for this site.

Precautionary Measures During Construction

Precautionary measures when working close to trees during construction are detailed in the accompanying method statement (Ref: 22/00041/AMS).

6 Mitigation Proposals

6.1 Replacement Tree Planting

Due to the loss of the trees identified in the Impact Table, it is recommended that replacement trees are planted as part of the proposed landscaping scheme. The extent of mitigation planting required will need to be confirmed in agreement with the Local Planning Authority once the development proposal is finalised.

Requirements usually involve replacement of trees on a two for one basis. This is based on tree sizes of 12-14cm girth, however for replacements that are significantly larger (20-25cm girth), it is considered that an increased size will mitigate for the tree loss in the form of replacements on a one for one basis.

This will have several benefits for the development and the character of the area. These are:

- Give a greater diversity of age class on the site, increasing sustainability.
- Give a greater diversity of species and therefore wildlife habitat.
- As the trees proposed for removal are to the rear of the site some of the replacement planting will be situated to the front of the development.
Therefore, the tree cover and amenity value in the locality will increase.

A list of recommended tree species proposed are listed in *Table 5.3: Replacement Tree Specifications*.

Table 5.3: Recommendations for Replacement Tree Specification

Tree Species	Tree Size
Field Maple - <i>Acer campestre</i>	20-25 cm girth
Silver Birch - <i>Betula pendula</i>	20-25 cm girth
Holly – <i>Ilex aquifolium</i>	20-25 cm girth
English Oak - <i>Quercus robur</i>	20-25 cm girth
Rowan - <i>Sorbus aucuparia</i>	20-25 cm girth

7 Summary and Conclusion

The survey identified eleven tree features on site consisting of five individual trees, five groups and one woodland group.

Of these, five tree features were classed as category B and four features were classed as category C. The remaining two tree features on site were classed as category U.

The tree categorisation method identifies the quality and value of the existing tree stock, but it is not meant to be interpreted rigidly and is presented to form a balanced judgement on tree retention and removal.

The proposals have impacted two tree features on site, of these two are recommended for removal. The remaining tree features on site can be retained.

No tree protection fencing is recommended for this site.

A precautionary method of working near trees is detailed in the accompanying Arboricultural Method Statement.

Following site development, regular (annual or biannual) inspections of all retained trees should be undertaken by a qualified arboricultural consultant.

It is considered that in following the advice in this document, any negative factors affecting the remaining trees on site will be minimised.

Appendix I.0 Tree Survey Schedule

Arboricultural Impact Assessment – Meadow Park School

Arboricultural Data Sheet: Meadow Park School					Date of Survey: 12/09/22					Surveyor: Jonathan Henderson			
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
T1	Eucalyptus	450	12	FM	3	3	3	3	1	Good	Good shape and form. Low hanging branches on East and Western sides of the crown. Minor deadwood in the crown. No major visible defects.	20+	B1
T2	Eucalyptus	260, 250	9	M	4	2	2	3	1	Good	Reasonable shape and form. Multi-stemmed from base, union has no major visible defects. Minor deadwood in the crown. No major visible defects.	10+	C1
T3	Hawthorn	140, 150	4	M	3	3	3	3	2	Good	Reasonable shape and form. Multi-stemmed from base. Minor deadwood in the crown. No major visible defects.	10+	C1

Arboricultural Impact Assessment – Meadow Park School

Arboricultural Data Sheet: Meadow Park School					Date of Survey: 12/09/22					Surveyor: Jonathan Henderson			
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
G4	Leylandii	350 Avg	20 Max	M	See Plan				2	Good	Group of leylandii adjacent to a garage. Good shapes and forms. One has evidence of limb loss likely due to storm damage; wound has not occluded. Minor deadwood in the crowns. Individually of lower value. No major visible defects.	20+	B2
W5	Mixed Species	300 Avg	22 Max	M	See Plan				3	Good	Group of trees forming a small woodland compartment. Limited inspection of some within area due to dense ivy cover on the lower stems. Minor deadwood in most crowns. No major visible defects.	20+	B2
T6	Standing Dead	210	17	M	1	1	1	1	10	Dead	Standing dead tree adjacent to an external building. Fell.	>10	U
G7	Mixed Species	350 Avg	18 Max	FM	See Plan				2	Good	Group of trees adjacent to the car park. Good shapes and forms. Minor deadwood in the crowns. No major visible defects.	20+	B1

Arboricultural Impact Assessment – Meadow Park School

Arboricultural Data Sheet: Meadow Park School					Date of Survey: 12/09/22					Surveyor: Jonathan Henderson			
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
T8	Willow	250	7	M	1	1	1	1	1	Poor	Collapsed tree within G7. Limited long-term value. Fell.	>10	U
G9	Birch and Cherry	250 Avg	11 Max	M	2	2	2	2	1	Good	Group of trees on a roundabout. Dense lower vegetation and moderate ivy growth prevented full inspection. Cherry has low hanging branches. All crowns have minor deadwood but no major visible defects.	20+	B2
G10	Mixed Species	150 Avg	6 Max	EM	1	1	1	1	1	Good	Group of small trees surrounded by dense lower vegetation. Reasonable shapes and forms. No major visible defects.	10+	C1
G11	Mixed Species	150 Avg	6 Max	EM	1	1	1	1	1	Good	Group of two small trees surrounded by dense lower vegetation. Reasonable shapes and forms. No major visible defects.	10+	C1

Appendix 2.0 Tree Survey Key

Arboricultural Impact Assessment – Meadow Park School

Trees for removal			
Category and definition	Criteria		
Category U Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other R category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality Note – Habitat reinstatement may be appropriate (e.g. R category tree used as a bat roost: installation of bat box in nearby tree).		
Trees to be considered for retention			
Category and definition	Criteria - Subcategories		
	1 Arboriculture values	2 Landscape values	3 Conservation values
Category A Those of high quality and value: in such a condition as to be able to make a substantial contribution (a minimum 40 years is suggested)	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboriculture features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (e.g. avenues or other arboricultural features assessed as groups)	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)
Category B Those of moderate quality and value: those in such a condition as to make a significant contribution (a minimum of 20 years is suggested)	Trees that might be included in the high category, but are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboriculture features (e.g. trees of moderate quality within avenue that includes better, A category specimens), or trees situated mainly internally to the site, therefore individually having little impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits
Category C Those of low quality and value: currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested), or young trees with a stem diameter below 150 mm	Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit	Trees with very limited conservation or other cultural benefits
	Note - Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm should be considered for relocation		

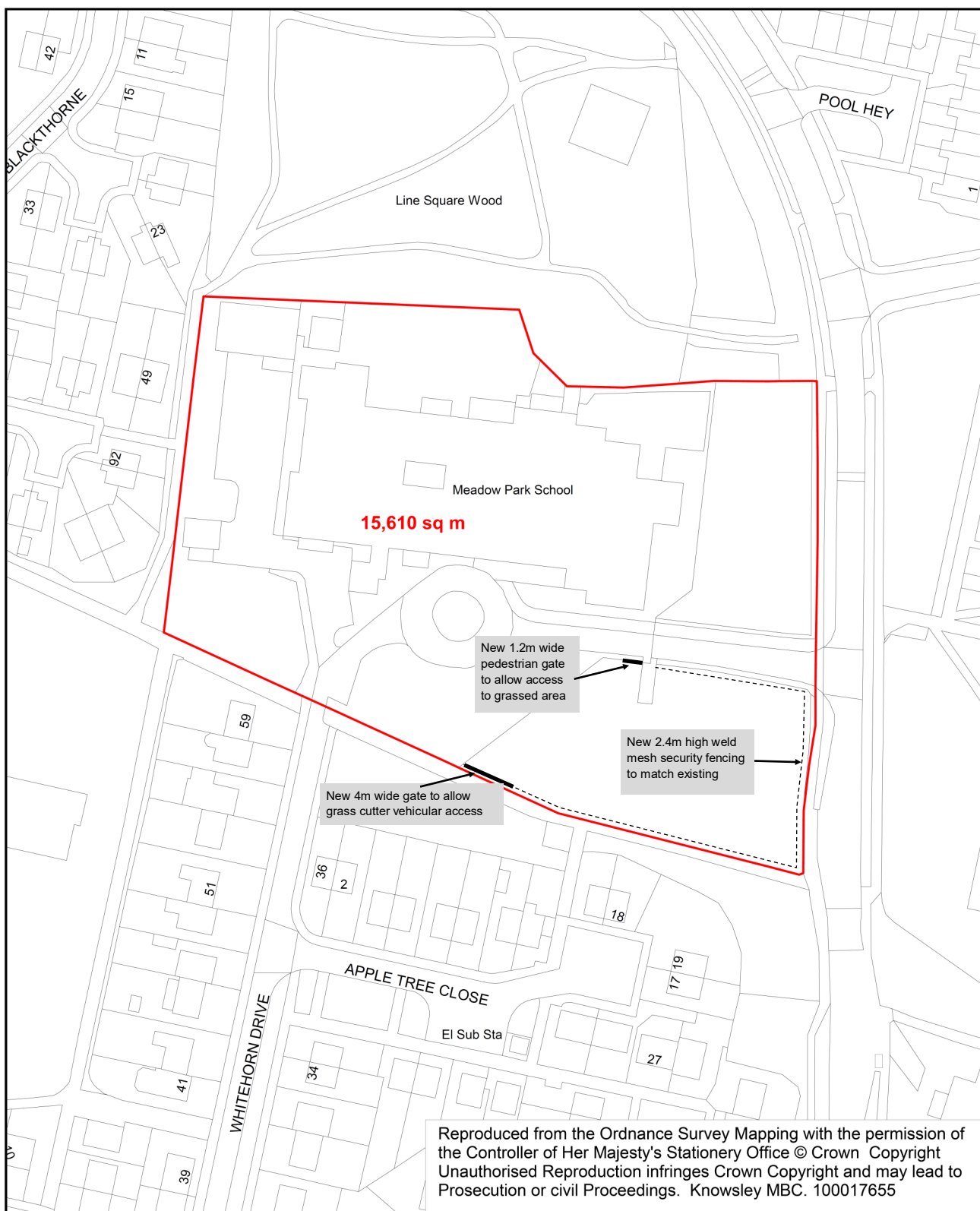
Age Class

Y	Young	Trees that have not yet established
SM	Semi-Mature	Established trees up to 1/3 of expected height and crown
EM	Early mature	Between 1/3 and 2/3 expected height and crown
M	Mature	Between 2/3 and full expected height and crown
FM	Fully Mature	Full expected height and crown
OM	Over-Mature	Crown beginning to break up and decrease in size
S	Senescent	Crown in advanced stage of break-up

Condition

Good – Feature needs little, if any attention.
Fair – Feature has minor, but rectifiable defects.
Poor – Feature has major defects or is in late decline.
Dead – Feature is dead.

Appendix 3.0 Proposed Development Plans



**MEADOW PARK SCHOOL
HASWELL DRIVE
STOCKBRIDGE VILLAGE (E212)**

Drawn	SH	Drawing No.
Date	09/02/2021	AS/066/2021
Scale	1:1250	Other No.
		NONE



METROPOLITAN
Borough of Knowsley
Assets Service

Yorkon Building,
Archway Road,
Huyton, L36 9FB



Appendix 4.0 Arboricultural Plans

- 

Category A Trees
- 

Category B Trees
- 

Category C Trees
- 

Category U Trees
- 

Root protection area



Court Hey Park
Roby Road
Huyton
L16 3NA

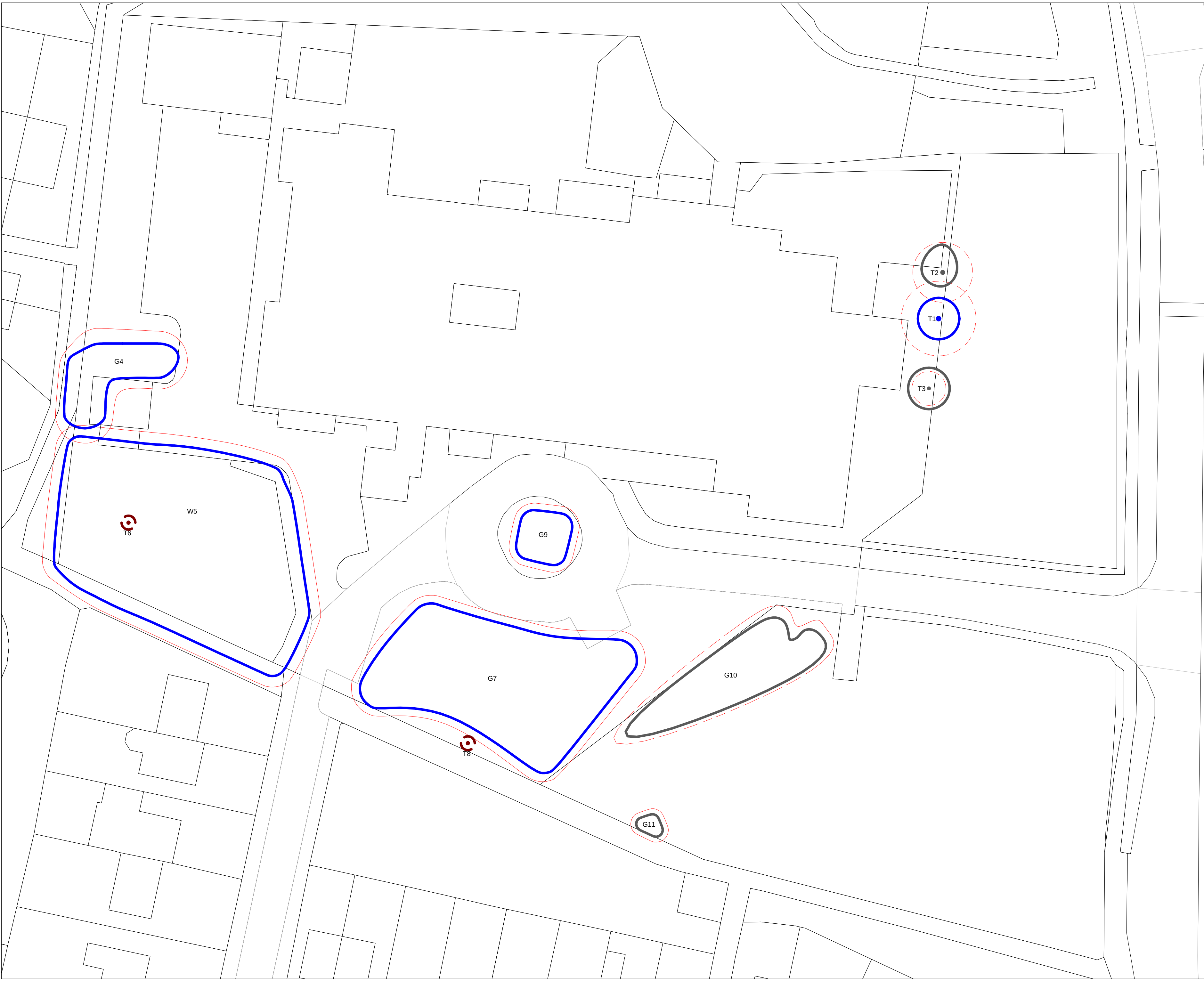
Email: info@weknowservices.co.uk

Client:
Meadow Park School

Site Address:
Haswell Drive
Stockbridge Village
L28 1RX

Drawing Title:	Drawing No:	
BS5837 Plan	22/00041/BSP	
Date:	Scale:	Drawn by:
20/09/2022	1:350@A2	JH

Note: Dimensions are not to be scaled from this drawing.
All written measurements are to be checked on site by the contractor. Copyright WeKnow Services.
Note: All rights described in Chapter IV of the Copyright Design & Patents Act 1988 have generally been asserted.



-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Proposed Fence



Court Hey Park
Roby Road
Huyton
L16 3NA

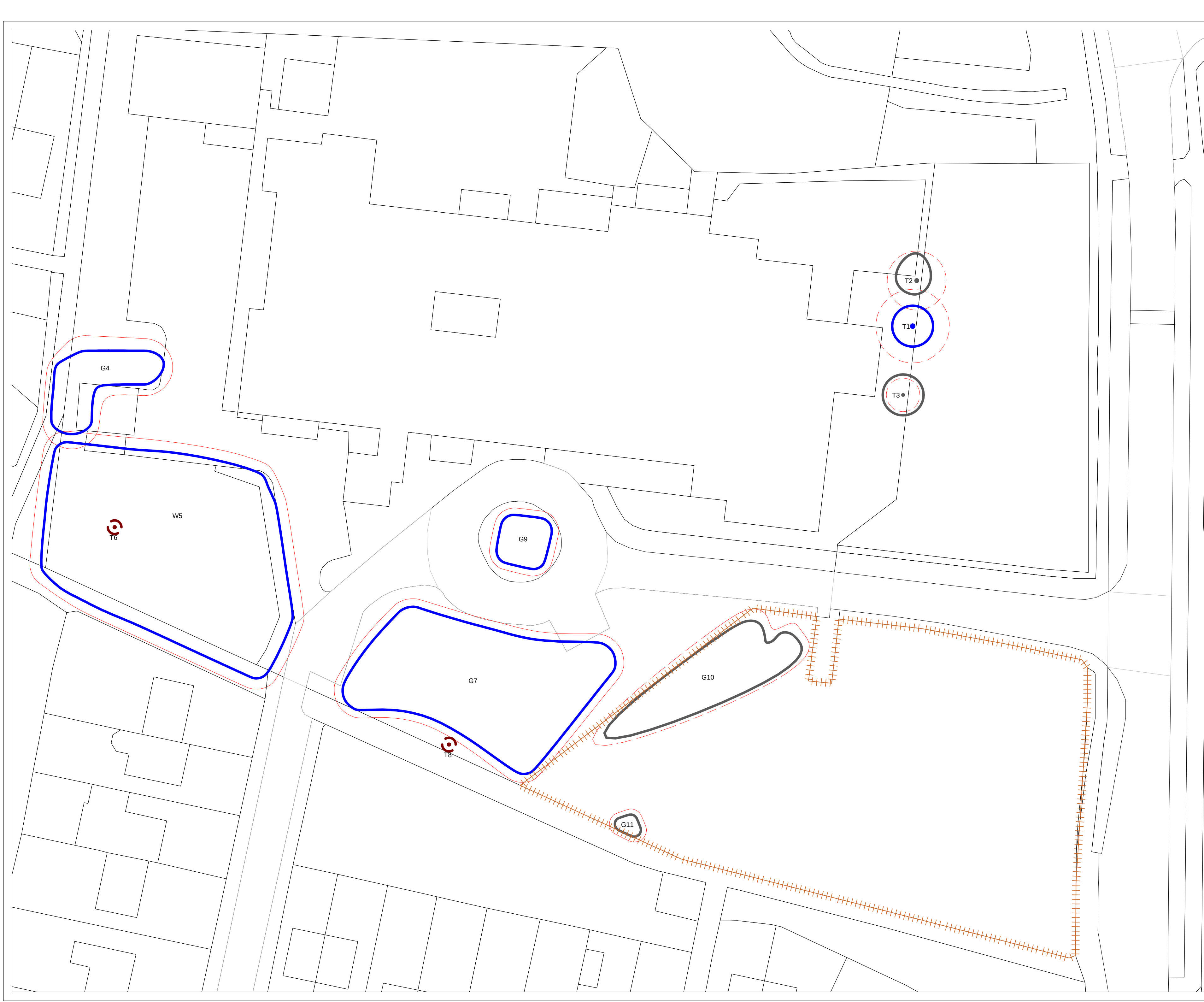
Email: info@weknowservices.co.uk

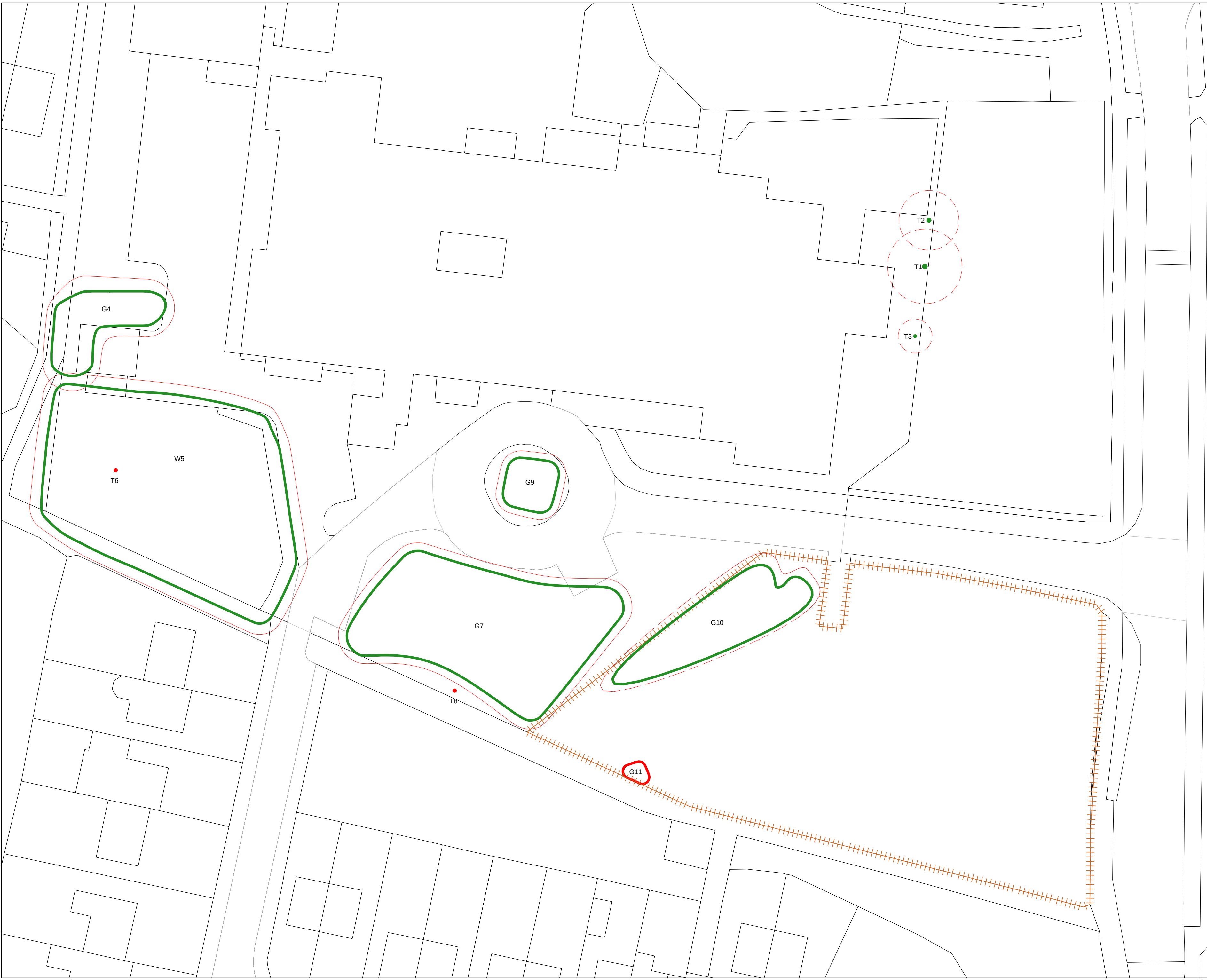
Client:
Meadow Park School

Site Address:
Haswell Drive
Stockbridge Village
L28 1RX

Drawing Title: AIA Plan	Drawing No: 22/00041/AIA
Date: 20/09/2022	Scale: 1:350@A2
	Drawn by: JH

Note: Dimensions are not to be scaled from this drawing.
All written measurements are to be checked on site by the contractor. Copyright WeKnow Services.
Note: All rights described in Chapter IV of the Copyright Design & Patents Act 1988 have generally been asserted.





-  Retained Trees
-  Trees to be Removed
-  Root protection area
-  Proposed Fence

 WE KNOW SERVICES

Court Hey Park
Roby Road
Huyton
L16 3NA

Email: info@weknowservices.co.uk

Client:
Meadow Park School

Site Address:
Haswell Drive
Stockbridge Village
L28 1RX

Drawing Title:	Drawing No:	
Tree Protection Plan	22/00041/TPP	
Date:	Scale:	Drawn by:
20/09/2022	1:350@A2	JH

Note: Dimensions are not to be scaled from this drawing. All written measurements are to be checked on site by the contractor. Copyright WeKnow Services. Note: All rights described in Chapter IV of the Copyright Design & Patents Act 1988 have generally been asserted.