

Arboricultural Impact Assessment/Method Statement

Former Caravan Park, Old Wrexham Road, Gresford, LI12 8AU

Prepared for:

M & M Jones Developments Ltd

Our Ref: 17/AIA/WXM/204 (Rev D)

May 2018

Tree Solutions Ltd

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1.0 Introduction

- 1.1 Tree Solutions Ltd has been instructed by M & M Jones Developments to provide an Arboricultural Impact/Method Statement (AMS) in support of planning consent for the proposed residential development on the former Caravan Park, Old Wrexham Road, Gresford, LL12 8AU.
- 1.2 This Method Statement sets out the methodology and protection measures for all works within close proximity to trees & hedgerows located on and adjoining the site boundary as indicated on the Tree Protection Plan at **Appendix 2**. All trees have been surveyed and are detailed within the tree survey schedule sheet at **Appendix 1**. Compliance with this method statement will be a requirement of all relevant contracts associated with the approved development. Copies of this document will be made available for inspection on site.
- 1.4 Trees to be retained and details including the designated Root Protection Area and location of tree protective fencing are clearly indicated on the Tree Protection Plan Ref 17/AMS/WXM/204, Drawing No. 3 which is at **Appendix 4** to this report.
- 1.5 The purpose of the AMS is to provide information on protection and control measures affecting the existing tree stock. The works, with applicable methodology, are divided into the sequence of operations at paragraph 4.0:

2.0 STATUTORY CONTROLS & PLANNING POLICY

- 2.1 In terms of impacts on trees, the planning application will be assessed against Policy EC4 of the Wrexham County Borough Council Unitary Development Plan (2005) and Local Planning Guidance Note 17 'Trees & Development' (2010).
- 2.1.2 We have been unable to ascertain if any trees are subject to a Tree Preservation Order or if the site falls within a designated Conservation Area. You are advised to obtain written confirmation from Wrexham Council Borough Council on this prior to undertaking any tree works not granted consent under this planning application.

3.0 SITE PLAN

- 3.1 The observations and recommendations contained in this document relate to the proposed site layout plan Ref: PL 1 (Rev J) provided by Cartwright Architectural Services.
- 3.2 The method statement should be read in conjunction with the enclosed Tree Protection Plan, which is based upon the above drawing.

4.0 DEVELOPMENT IMPACT TO TREES

- 4.1 Tree Solutions carried out a phase one preliminary tree survey in August 2017 and provided the architect with a report in which all existing trees and their respective Root Protection Areas (RPA) were identified and plotted on a tree constraints and indicative impact assessment plan. The architect has incorporated the design and layout advice contained within the stage 1 survey and the proposed layout has been determined by the retention categories/values of each tree and the location of their designated RPA's. As such the principles of BS5837: 2012 have been adhered to. We are therefore satisfied that the proposal has taken the long-term future of the most important trees into account and the layout is therefore in accordance with Wrexham County Borough Council Planning Policies, LPG and recommendations contained with BS5837: 2012.
- 4.2 The garages to plots 6 & 7 and plot number 5 encroach within the RPA of tree number 1. In April 2018 a trial trench was excavated at a distance of 7m west of the tree to a depth of 1m and inspected by the Council Tree Officer who was happy that no tree roots were present in this location. As such we are satisfied that there will be no adverse impact to the tree during the required excavation of foundations for the garages and dwelling.



Photo 1 - T1, small stunted form with multiple pruning wounds & cavities

- 4.3 The hedgerow along the site frontage has seen little management in the past and is now in a poor condition. We have therefore recommended that it be laid with all gaps restocked with new plants in order to restore the former green boundary treatment that is a distinctive feature along Old Wrexham Road.
- 4.4 As requested by WCBC Tree Officer, a shading assessment has been undertaken, the results of which can be seen on the Impact assessment Plan at **Appendix 3**. This has revealed no shading to the rear garden areas of plots 5-7.

5.0 SEQUENCE OF OPERATIONS

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described:

1. Erect temporary tree protective fencing
2. Main construction phase
3. Removal of temporary fencing
4. Landscaping within RPA of trees

1. Erect Temporary Tree Protective Fencing

1. Prior to commencement of any construction, preparation, excavation or material deliveries the main contractor shall erect the temporary protective fencing as detailed in the 'Tree Protection Specification' and in the location indicated on the Tree Protection Plan.
2. Upon erection of tree protective fencing, an inspection report will be completed and returned to the LPA Tree Officer for approval. Any damage occurring to protective fencing during the demolition or construction phase shall be made good by the main contractor

2. Main/Construction Phase

1. Tree protective fencing to be erected prior to any construction plant or materials entering the site
2. Tree protective barriers in accordance with BS 5837: 2012 will be erected to prevent damage to the tree stems and any movement of plant within the RPA
3. There shall be no storage of construction material, site parking, site accommodation or equipment in any area designated as the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing
4. No materials that are likely to have an adverse effect on tree health such as oil, bitumen or cement will be stored or discharged within 10 metres of the trunk of a tree that is to be retained. No fires will be lit

5. The site agent shall supervise deliveries by self-loading crane, with vehicles positioned in such a manner that retained trees are not at risk of damage

Cement Mixing

- The cement mixer will be laid on top of plywood boards in a position located outside the RPA of any tree or hedgerow. The mixer will be kept in this position throughout the development work.

Avoiding Damage to Stems and Branches

- Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious injury resulting in safe retention impossible

On Site Storage of Spoil and Building Materials

- Prior to and during all site construction works no spoil will be stored and no cement mixing will take place within the Root Protection Area of any tree on or adjacent to the site even if proposed site work is to be within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the LPA Arboricultural Officer

3. Remove all Temporary Tree Protective Fencing

1. Tree Protective fencing will only be removed upon completion of all construction work and once all machinery associated with the works has left site.
2. The tree protection fencing shall not be removed until written confirmation has been received from the Local Planning Authority that it is acceptable to do so.

4. Landscaping within RPA of Trees

1. There shall be **no rotovation** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
2. No hard landscaping works or excavation for cables or any other service should be installed within the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) without the written consent of the LPA.

Useful Contacts

Arboricultural Consultant

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LPA Arboricultural Officer

Name: Jon Brewin

Tel: 01978 298763

Email: jon.brewin@wrexham.gov.uk

TREE PROTECTIVE FENCING

- 1 Before the commencement of any demolition and subsequent construction works on site (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected as detailed on the Tree Protection Plan and as specified below. The LPA Tree Officer will be given 5 days notice upon completion of the fencing in order to inspect and approve prior to the commencement of any site works.
- 2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2012 (illustration below) comprising a metal framework, both vertical and horizontal, well braced to resist impacts. Vertical tubes will be spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not considered resistant to impact and for this reason will not be used. The site manager or other suitably qualified appointed person will be responsible for inspecting the protective fencing on a daily basis; any damage to the fencing or breaches of the fenced area will be rectified immediately.
- 3 Clearly legible weatherproof signage, stating “Protected Trees – Exclusion Zone” shall be attached to the fencing 1.5m from the ground, facing out of the Tree Protection Zone located at regular intervals along the fence line
- 4 The fencing will remain in place until completion of all site works and then only removed when all site traffic is removed from site
- 5 Other than works detailed within this method statement or approved in writing by the Local Planning Authority (LPA), no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

Protective Fencing Detail

1. **Magenta** - Trees



Tree Protective Fencing Specification

Appendix One

Tree Survey Schedule

TREE SURVEY SCHEDULE (BS5837: 2012)

Tree Solutions

Arboricultural Consultants

SITE:	FORMER CARAVAN PARK, OLD WREXHAM ROAD, GRESFORD, LL12 8AU
CLIENT:	M & M JONES DEVELOPMENTS LTD
BRIEF:	ARBORICULTURAL IMPACT ASSESSMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	18 AUGUST 2017
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	17/AIA/WXM/204

PAGE 1 OF 1

TREE NO. T - Tree G - Group H - Hedge	SPECIES (COMMON NAME)	AGE	HEIGHT (m) + CROWN CLEARANCE/ DIRECTION OF GROWTH (N.S.E.W)	RADIAL CROWN SPREAD (m)				STEM/ MULTI-STEM* DIA.(mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m²)
				N	S	E	W						
T1	Oak	PM	9 1S	6	3	4.5	4.5	1200	G	- Past crown failure leaving small volume tree - Major decay seam on main leader to east - Bat potential - E.R.C. 20+	• N/A	B2	14.4 652m²
H1	Hawthorn Ivy	M	≤4	1	1	1	1	≤80	M/P	- Unmanaged boundary hedge full of Ivy & Sycamore poles - Has potential to form attractive green boundary treatment if layed and gaps planted with new transplants - E.R.C. 20+ (if managed)	• Lay in order to bring hedge back into good management	C1	1 3m²

HEADINGS & ABBREVIATIONS

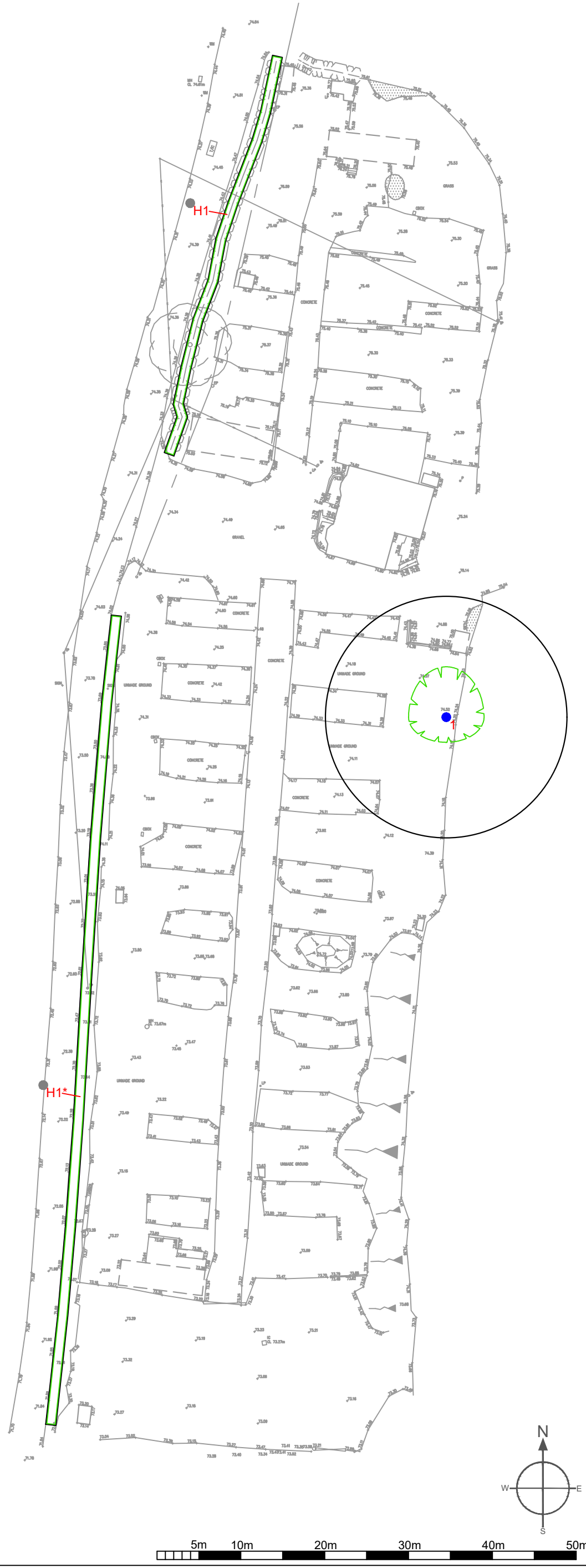
TREE NO.
SPECIES:
AGE RANGE/LIFE STAGE:
HEIGHT:
CROWN SPREAD:
CROWN CLEARANCE & DIRECTION OF GROWTH:
STEM DIA/MULTI-STEM DIA:
VITALITY:
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:
BS 5837 CATEGORY & SUB-CATEGORY GRADING:
BS 5837 RADIUS & BS 5837 RPA:

REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)
COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)
Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE
ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES
MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)
HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE, CROWN/STEM RATIO AND SHADING)
STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES
A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD
RELATIVE USEFUL LIFE EXPECTANCY (YEARS)
A = HIGH QUALITY AND VALUE, B = MODERATE QUALITY AND VALUE, C = LOW QUALITY AND VALUE, U = UNSUITABLE FOR RETENTION (SUB-CATEGORY REFERS TO ARBORICULTURAL, LANDSCAPE AND CULTURAL/CONSERVATION VALUES)
PROTECTIVE DISTANCE - RADIUS FROM THE CENTRE OF THE STEM TO THE LINE OF TREE PROTECTION (CONSTRUCTION EXCLUSION ZONE - CEZ) AND PROTECTIVE BARRIER ROOT PROTECTION AREA - BS 5837 (2012) ANNEX D (THE RECOMMENDATIONS STATE THAT THE RPA SHOULD BE CAPPED AT 707 M²) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	- Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline - Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i>			See Table 2
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	See Table 2
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	See Table 2
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	See Table 2

Appendix Two
Tree Constraints Plan



Legend

Root Protection Area
Modified to Account for
Site Features

Category

Root
Protection
Area

Crown
Spread

Tree
Number

Category A
(High Quality)

Category B
(Moderate Quality)

Category C
(Low Quality)

Category U
(Dead/Dying/In Decline)

NOTE: Tree/group numbers marked with an * have
approximate locations

Client: M & M Jones Developments Ltd	
Project: Former Caravan Park, Old Wrexham Rd, Gresford, LL12 8AU	
Title: Preliminary Tree Constraints Plan	
Scale: 1-500@A3	Date: April 2018
Drawn By: AM	Revision: A
Job Ref: 17/AIA/WXM/204	Drawing No: 01

Do not scale from this drawing all dimensions to be
checked on site.

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Appendix Three

Arboricultural Impact Assessment Plan (Rev C with shading diagram)

Appendix Four
Tree Protection Plan

- | 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 |

a) Stabilizer strut with base plate secured with ground pins

PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.

**TREE PROTECTION AREA
KEEP OUT !**

(TOWN & COUNTRY PLANNING ACT 1990)

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PROTECTION ORDER.

CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION

ANY ENCROUCHMENT INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY

Hawthorn, Blackthorn and Holly mixture and the occasional tree Malus or Sorbus

Existing hedgerow to be removed and replanted 1.0m in from boundary Hawthorn, Blackthorn and Holly mixture and the occasional tree Malus or Sorbus

Footpath link

h footpath

th

FOR
ravans

Diagram illustrating a road layout. A green line indicates a 'New 2.4 x 5.0m' area. The road is labeled 'Wreatham Road'. A section is identified as a 'Shared Pedestrian and Vehicular Priority Road Area' with widths of 4.5m and 5.5m.

1

Existi
New Clo
defining

Indicative tree and shrub plan
(See Landscape layout)

Legend

Root Protection Area
Modified to Account for
Site Features

The diagram illustrates a tree plot with the following components labeled:

- Crown**: The top part of the tree.
- Spread**: The horizontal extent of the tree.
- Tree Number**: The number 13, indicating the specific tree.
- Root**: The base of the tree.
- Protection**: The area around the tree, indicated by a green dashed line.

- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)

NOTE: Tree/group numbers marked with an * have approximate locations

Tree Protection Fencing

AM  Approximate sweep of shade cast by trees in midsummer, plotted as per description in BS5837: 2012

"An indication of potential direct obstruction of sunlight can be illustrated by plotting a segment, with a radius from the centre of the stem equal to the height of the tree, drawn from due north-west to due east, indicating the shadow pattern through the main part of the day."

Client:

M & M Jones Developments Ltd

Project:

Former Caravan Park, Old Wrexham Rd,
Gresford, LL12 8AU

Title:

Tree Protection Plan

Scale:

1-500@A3	May 2018
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Drawn By:

n By: AM	Revision:
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Job Ref:

Ref:	Drawing No:
7/AIA/WXM/204	0

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