



Amenity Tree Care Ltd

Consulting Arboriculturalists

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**Arboricultural Method Statement (AMS) –
Compiled to discharge planning condition number 11.**

Arboricultural Method Statement

26th April 2012. Updated 1st May 2012.



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Report Introduction

- 1.1 I have been instructed by the client to determine an arboricultural method statement in order to discharge planning condition eleven and a woodland management plan in respect of planning condition number fourteen, for the recently approved planning permission at Rivulet Rd, Wrexham.
- 1.2 Planning condition eleven requires an Arboricultural Method Statement (AMS) to discharge the condition including supporting plans, schedules, specifications and statements of tree protection in the appendices and this report.

Planning condition 11 states:

No part of the development shall commence until a detailed Arboricultural Method Statement has been submitted to and approved in writing by the Local Planning Authority. No development or other operations shall take place except in strict accordance with the Method Statement as is approved. The Method Statement shall include the following:

- 1 – A specification for tree protection fencing and ground protection measures that comply with British Standards 5837:2005;
- 2 – A Tree Protection Plan showing the location of the trees to be removed and retained with their crown spreads, Root Protection Areas, Construction Exclusion Zones and location of protective fencing measures accurately plotted;
- 3 – A full specification for any access, driveway, path, underground services or wall foundations within tree Root Protections Areas or Construction Exclusion Zone, including any related sections and method for avoiding damage to retained trees;
- 4 – Details of general arboricultural matters including proposed practices with regards to cement mixing, material storage and fires;
- 5 - Details of the frequency of supervisory visits and procedures for notifying the findings of such visits to Local Planning Authority;
- 6 – Method for protecting retained trees during demolition works;
- 7 – Details of all proposed tree works, including felling and pruning.

Arboricultural Method Statement (AMS)

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

The sequence of works shall be as follows:

- 1 Pre-contract site meeting and LPA commencement notice of two weeks.
- 2 Arboricultural works
- 3 Tree protection fencing
- 4 Ground works / demolition including hard surfacing construction in Special Measure Areas
- 5 Phasing of works
- 6 Storage
- 7 Removal of temporary fencing
- 8 Communication
- 9 Supervision of the site

1 Pre contract site meeting

To outline working methods in relation to trees prior to any construction activity on site, a site meeting of the following shall take place.

- Main contractor – Anwyl Construction
The site manager during these operations will be Paul Evans once construction work starts the site manager will be Pat Kelly. Tel: [Paul Evans mobile 07795-847713](tel:07795847713).
- Arboricultural consultant – Simon Brain / Steven Shell, Amenity Tree Care 01829 770075 07957 431879
- LPA arboriculturalist - Moray Simpson
- LPA case officer – Sharon Holman

The meeting will outline the construction exclusion zone, position and specification of protective fencing, special measures areas and working methodology within them for the site

A record of the meeting will be taken and distributed to the Local Authority arboricultural officer confirming a start date for works to commence on site adjacent to retained trees.

Notice must be provided to the Local Authority arboricultural officer at this point.

The pre contract site meeting will confirm the duration of the works in the Special Measure Areas (SMA)

It is noted that arboricultural supervision duration will be scheduled where specific tasks in the SMA are occurring with a watching brief from commencement in the SMA areas.

2 Arboricultural works

Before erection of the temporary fencing, all arboricultural works including felling, pruning and stump grinding will be implemented as detailed in Appendix Two - Management Recommendations following AIA (Arboricultural Impact Assessment).

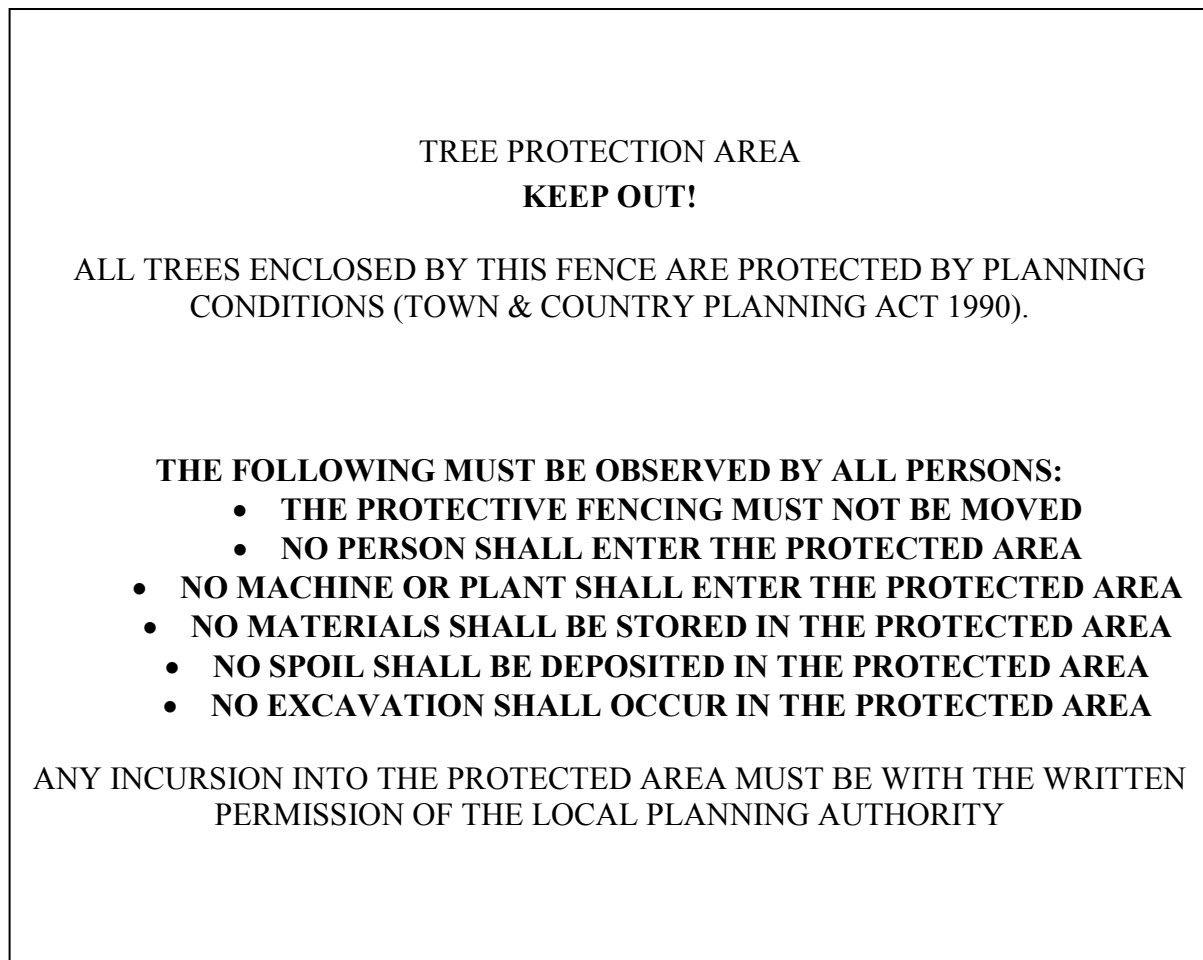
All arboricultural works shall conform to the recommendations of BS3998, British Standard Recommendations for Tree Work (2010)

All operatives shall be equipped with and use personal protective equipment in accordance with current directives of the Health and Safety Executive and industry codes of practice.

3 Tree Protections

Following completion of the tree pruning operations, the main contractor shall be directed by the arboricultural clerk of works as to the location and specification for the Tree Protection Fencing to provide physical stem and root protection as detailed in Appendix One.

These areas will become Construction Exclusion Zones (CEX) and will display the following figure on the outside of the tree protection fencing.



3 Tree Protections - Continued

The consulting arborist shall inspect installation of the temporary fencing and confirm in writing to the LPA of the suitability of the arrangements implemented.

Any damage occurring to protective fencing during the construction works shall be monitored by the consulting arborist and be made good by the main contractor immediately.

Any incursion into Tree Protection Zones must be by prior arrangement, following consultation with the arboricultural consultant.

No material shall be spread or otherwise placed within the tree protection areas.

All temporary protective fencing shall:-

- a. preclude all construction activity with the sole exception of specified arboricultural works and such works as have been agreed by all parties and to be carried out under supervision.
- b. preclude the storage or tipping of all materials and substances, in addition toxic substances such as fuels, oils, additives, cement or any other deleterious substance within the site

4 Ground works for retaining wall and landscaping for Plot 16

Existing wall and reinstatement

The existing retaining wall at the base of the woodland area (containing edge trees numbered 1, 2, 29, 4, 6, 11 and 18) is due to be retained and the proposed new retaining wall, set back from the woodland edge forming the rear boundary with the proposed new dwellings will be built. A small section of the existing wall is due to be removed but this is outside the tree protection fencing and construction exclusion zone.

Incremental ground level changes up to 500mm are to be carried out at the base of the existing retaining wall. It is noted that the ground level difference between the existing ground levels in and outside the existing retaining wall is over 3000mm and the possibility of rooting material at the base of the wall is low.

No ground level change will occur in the Construction Exclusion Zone over 100mm and may only include top soil for the purposes woodland improvement and planting.

The treatment of the existing wall and re instatement shall be carried out by the following methodology:

- Install Tree Protection Fencing and indicated on Tree Protection Plan.
- Carry out ground works inside the fenced area and outside the Construction Exclusion Zone under the supervision of the arboricultural consultant
- Re instate fencing on the same day
- Install new retaining wall
- Any proposed backfilling material shall consist of free draining material to the rear of the wall.
- Arboricultural clerk of works to be present for and record digital evidence of works.
- A written summary including photographs of the works will be forwarded to the Local Planning Authority.

Landscaping – Plot 16

The proposed site layout indicates a small area of landscaping for Plot 16 is located within the RPA of T21.

Whilst it is accepted the existing stone boundary wall is likely to act as a root barrier from root ingress to site, a no dig policy in the SMA will ensure the site is constructed in accordance with BS5837. Therefore no excavation other than the removal of the uppermost 50mm of the existing soil shall be disturbed in the SMA and for the purposes of ground cultivation and preparation only.

5 Phasing of works

It is intended that the newly created retaining wall to be installed is to be carried out first immediately upon commencement. Therefore all ground works inside the new and existing

retaining wall can be implemented at the beginning of new wall construction and fenced off for the remainder of the development

6 Storage

All construction equipment and materials shall be stored within the area designated as the site compound for which the location of will be agreed with the clients agent, site agent and consulting arborist. Any deleterious substances, site huts and facilities shall be located within the site compound. All cement mixing will be carried out outside the SMA's and TPZ / Fenced areas.

The Construction Exclusion Zone, Special Measure Areas or Root Protection Areas shall not be used for storage of any product

7 Removal of temporary fencing

Temporary protective fencing shall be removed only upon completion of all construction works and with the written consent of the arboricultural consultant or Local Planning Authority.

8 Communications

The arboricultural clerk of works shall attend the site at key stages and will generate reports as to the progress of construction and the compliance to this method statement as a result of specific scheduled visits for retaining wall works are occurring as well as general site visits to monitor compliance.

Evidence will be gathered during the build period as to tree protection, operations undertaken and discussion of any arboricultural implications of actions taken on site or liaisons with the LPA.

The arboricultural clerk of works will produce a portfolio of evidence upon completion called the formal handover report. This formal reporting will be made available to the local authority upon completion and at their request and with the permission of the client.

The LPA will require arboricultural supervision by the project arboriculturist once a month during the construction phase, with a supervision report including photographs being submitted to the LPA Planning Case Officer and Arboricultural Officer by e-mail with three working days of each visit

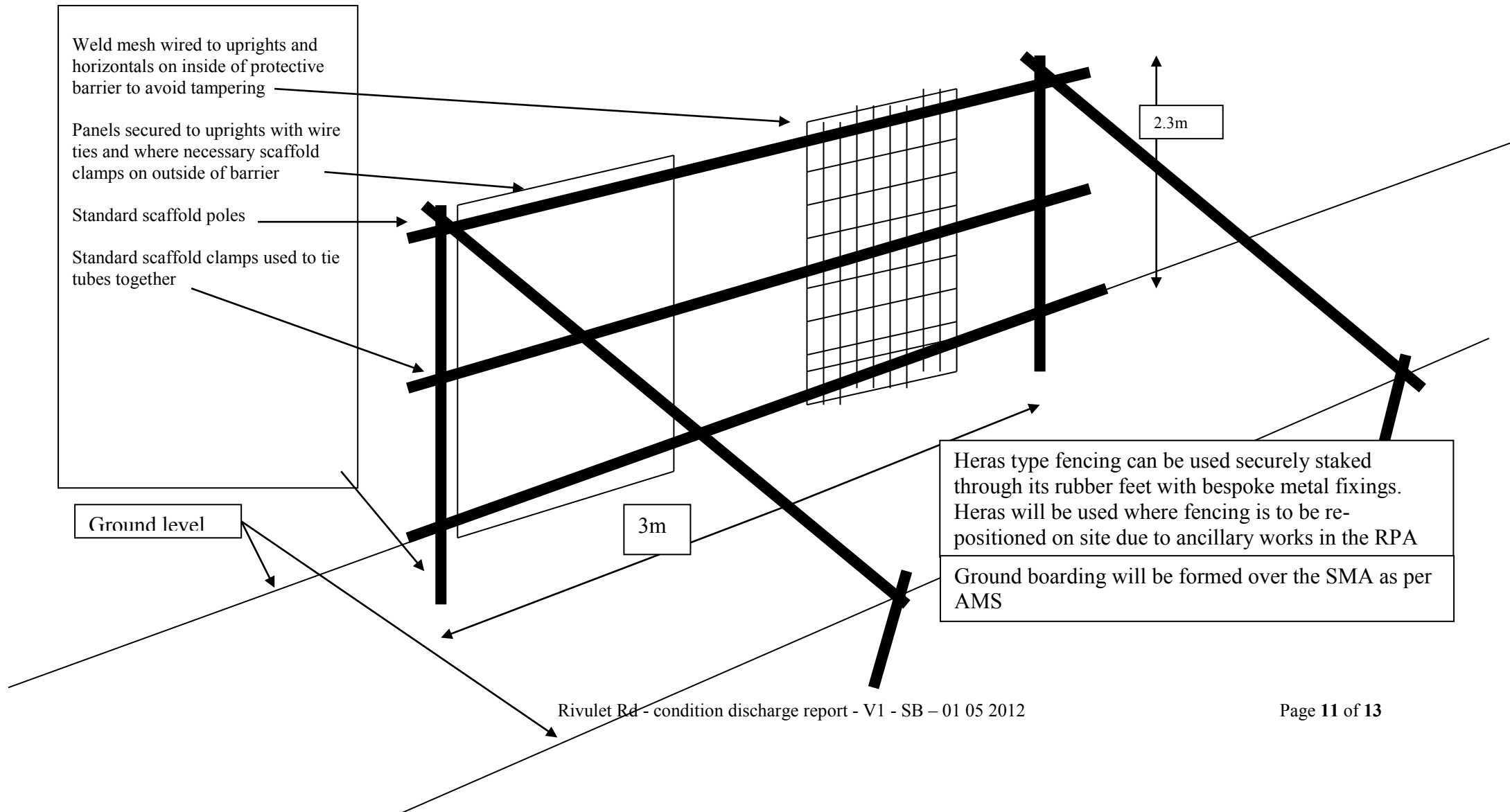
9 Supervision of the site

The proposed schedule for specific on site arboricultural supervision, including recommended scheduled monthly visits is as follows.

Nature of construction	Vegetation affected	Supervisory requirement
Pre start meeting with demolition and main contractors	Retained trees	Outline tree constraints and methods of working
Protective fence and ground protection installations	Retained trees	Inspect installed fencing arrangements
Landscaping at Plot 16	T21	Watching brief during construction in all SMA areas.
Existing and proposed retaining wall works	Woodland area	Specific visit during ground works in side TPZ areas Watching brief during construction
General	Retained trees	Planned visits to site (monitoring)

Appendix One - Tree Protection Fencing specification

PROTECTIVE BARRIER REQUIREMENTS – BS 5837: 2005 Trees in relation to construction.

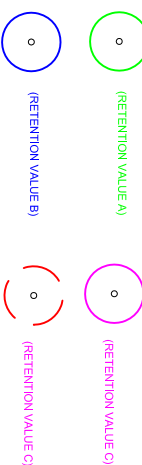


Appendix Two – Arboricultural Work Schedule

Appendix Three - Tree Protection Plan

TREE PROTECTION PLAN

Retention value key



Root Protection Areas (RPA) & Provisional Tree Protection Zones (TPZ)

Root Protection Areas (RPA's) have been identified and are based on BS5837:2005.

Provisional Tree Protection Zones (TPZ's) have been identified following an assessment of the likely tolerance of damage, root morphology, site conditions, topography, ultimate height and issues of post construction tree resentment such as nuisance. The TPZ represents a realistic assessment of the area of ground required to remain undisturbed to facilitate meaningful and long term successful tree retention. Further allowance for a greater distance may be required following detailed analysis of shadowing, where applicable.

TPZ's and RPA's have been shown as detailed below.

Tree Protection Zone
RPA

Canopy extent

SPECIAL MEASURE AREA (SMA). Refer to AIA and draft arboricultural method statement for details of recommended construction.

CONSTRUCTION EXCLUSION ZONE (CEZ).
NO CONSTRUCTION ACTIVITY WHATSOEVER.

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Ltd

Client:
Anwyl

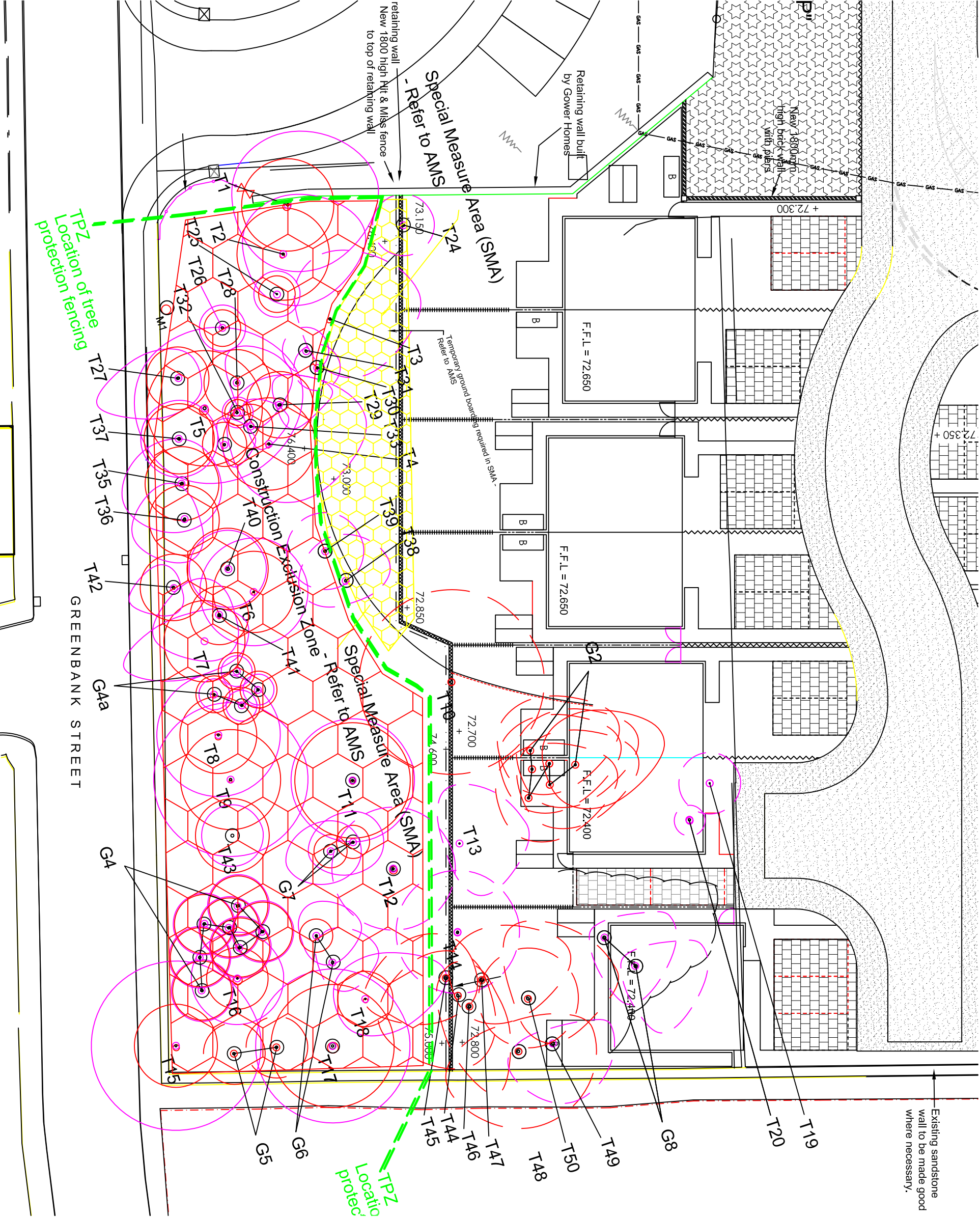
Project:
Rivulet Road, Wrexham

Detail:

TREE PROTECTION PLAN - Overview

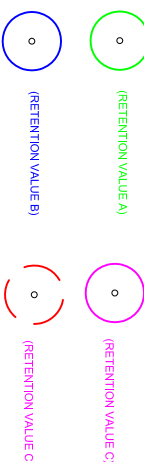
Drawn By: SB Date: 26 04 12 Scale: 1:1250@A3

Dwg No: TR-01 Revision: Version2



TREE PROTECTION PLAN

Retention value key

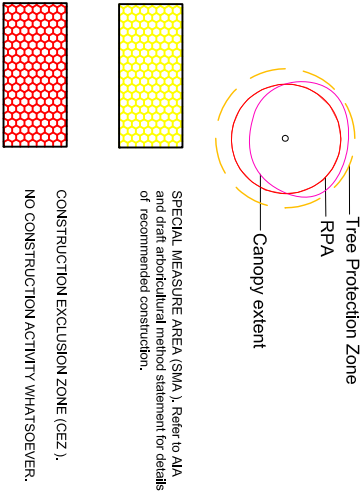


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TPZs and RPAs have been shown as detailed below.



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Client:
Anwyl

Project:
Rivulet Road, Wrexham

Detail:

TREE PROTECTION PLAN - Woodland

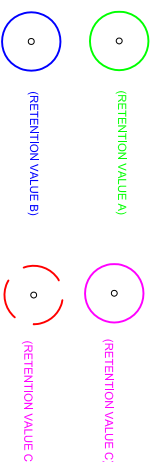
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Dwg No: **TR-01** Revision: **Version2**



TREE PROTECTION PLAN

Retention value key

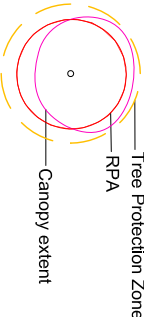


Root Protection Areas (RPA) & Provisional Tree Protection Zones (TPZ)

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TPZs and RPAs have been shown as detailed below.



SPECIAL MEASURE AREA (SMA). Refer to AIA and draft arboricultural method statement for details of recommended construction.

CONSTRUCTION EXCLUSION ZONE (CEZ). NO CONSTRUCTION ACTIVITY WHATSOEVER.

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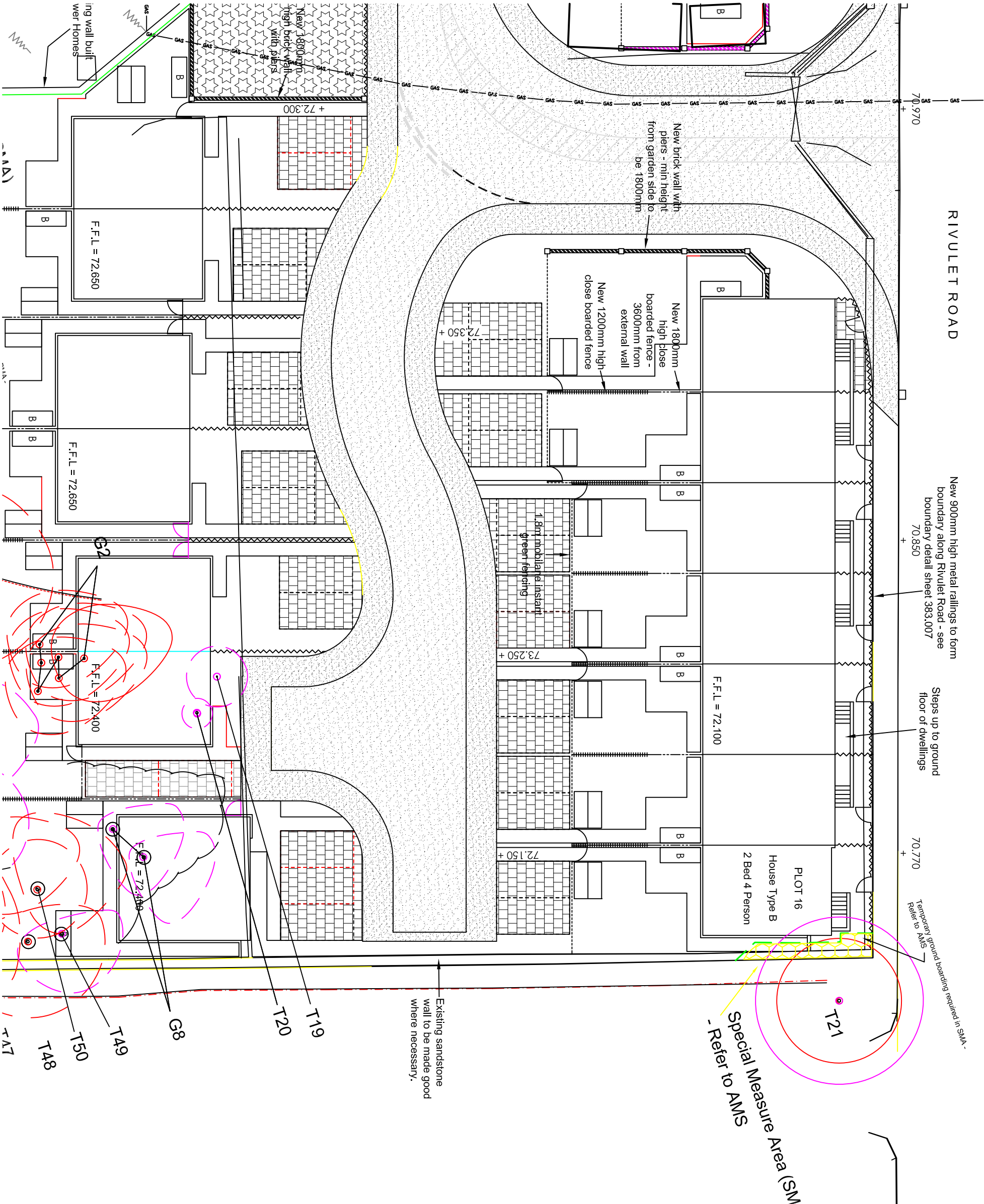
Client:
Anwyll

Project:
Rivulet Road, Wrexham

Detail:

TREE PROTECTION PLAN - T21

Drawn By:	Date:	Scale:
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Dwg No:	Revision:	
TR-01	Version2	



Tree Ref on plan	Common Name	Latin Name	Age Class	Stem diameter in mm	Multi/single stem	Ht. in M	Lower crown height	Canopy Spread N	Canopy Spread E	Canopy Spread S	Canopy Spread W	Retention value	Physio. Cond.	Remaining contrib. in years	Arboricultural comments	Preliminary Management Recommendations	Management Recommendations following AIA	Root Protection Area
3	Silver Birch	Betula pendula	M	300	SS	10.5	0.5	6	2	4	4	C2	F	10 to 20	Part of linear group. Immediately adjacent to retaining wall. Suppressed edge tree. Canopy bias to north	No works required at inspection time	Removal of existing retaining wall/backfilling affecting unacceptable levels of RPA. Remove and replace within landscape plan	3.6
10	Goat Willow	Salix caprea	MA	325	MS	10.5	1.5	6	6	6	6	R	F	<10	Part of linear group. Subsiding limbs. Poor structural condition Immediately adjacent to retaining wall. Unsuitable for longer term retention due to condition	Remove tree and root	Removed for condition	3.2
12	Sycamore	Acer pseudoplatanus	M	375	SS	14	0.5	4	4	4	4	C2	F	10 to 20	Part of linear group. Stem damage and some dieback in apical leader. Damaged surface roots	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Remove due to impact of development on RPA and existing condition. Replace within landscape plan	3.8
13	Laburnum	Laburnum anagyroides	MA	170	MS	6.5	1.5	4.5	1	3.5	3.5	C2	F	10 to 20	Part of linear group. Stunted habit. Unbalanced crown shape. Crown distorted due to group pressure. Limited life expectancy	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Lost for new retaining wall. Replace within landscape plan	1.8
14	Sycamore	Acer pseudoplatanus	MA	240	SS	12	1.5	4	4	4	4	C2	F	10 to 20	Part of linear group.	No works required at inspection time	Lost for new retaining wall. Replace within landscape plan	2.4
16	Silver Birch	Betula pendula	MA	200	MS	10.5	1.5	3	3	3	3	C2	F	10 to 20	Part of linear group.	No works required at inspection time	Unaffected directly. Retain and protect by installation of TPZ as shown on TPP.	2.1
19	Goat Willow	Salix caprea	Y	150	MS	5	1.5	2	2	2	2	C2	F	10 to 20	Part of linear group. Spindly habit. regeneration of low individual merit.	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Remove due to impact of development. Replace within landscape plan	1.6
20	Sycamore	Acer pseudoplatanus	Y	70	SS	5	1.5	1	1	1	1	C2	F	10 to 20	Part of linear group. Spindly habit. regeneration of low individual merit.	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Remove due to impact of development. Replace within landscape plan	0.7

Tree Ref on plan	Common Name	Latin Name	Age Class	Stem diameter in mm	Multi/single stem	Ht. in M	Lower crown height	Canopy Spread N	Canopy Spread E	Canopy Spread S	Canopy Spread W	Retention value	Physio. Cond.	Remaining contrib. in years	Arboricultural comments	Preliminary Management Recommendations	Management Recommendations following AIA	Root Protection Area
21	Sycamore	Acer pseudoplatanus	400	385	SS	11.5	4	5.5	5.5	5.5	5.5	C2	F	10 to 20	Growing off site. Boundary wall foundation and adjacent footpath hard standing are significant barriers to root trespass onto site.	No works required at inspection time	A reduced RPA takes the RPA off site. Prune overhanging branches by 1.5-2m.	4.1
22	Goat Willow / Ulmus	Salix caprea / Elm	Y	150	SS	6.5	0.5	2	2	2	2	C2	F	10 to 20	Regeneration	No works required at inspection time	Lost for development. Replace within landscape plan	1.2
23	Sycamore	Acer pseudoplatanus	Y	100	SS	5	0.5	1.5	1.5	1.5	1.5	C2	F	10 to 20	Regeneration	No works required at inspection time	Lost for development. Replace within landscape plan	0.8
24	Hawthorn	Crataegus monogyna	MA	160	SS	6	0.5	2	2	2	2	C2	F	10 to 20	Part of linear group. Leaning North.	No works required at inspection time	Lost for new retaining wall. Replace within landscape plan	1.9
30	Sycamore	Acer pseudoplatanus	Y	90	SS	8.5	0.5	1.5	1.5	1.5	1.5	C2	F	10 to 20	Regeneration immediately on edge of retaining wall	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Removal of existing retaining wall/backfilling affecting unacceptable levels of RPA. Remove and replace within landscape plan	1.1
31	Ash	Fraxinus excelsior	Y	90	SS	8.5	0.5	1.5	1.5	1.5	1.5	C2	F	10 to 20	Regeneration immediately on edge of retaining wall	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Removal of existing retaining wall/backfilling affecting unacceptable levels of RPA. Remove and replace within landscape plan	1.1
34	Silver Birch	Betula pendula	Y	120	SS	10	0.5	2	0	1.5	1.5	C2	F	10 to 20	Regeneration. Spindly habit.	No works required at inspection time	Unaffected directly. Retain and protect by installation of TPZ as shown on TPP.	1.4
38	Silver Birch	Betula pendula	Y	200	SS	9	0.5	3	3	1.5	3	C2	F	10 to 20	Regeneration immediately on edge of retaining wall	No works required at inspection time	Removal of existing retaining wall/backfilling affecting unacceptable levels of RPA. Remove and replace within landscape plan	2.4
39	Silver Birch	Betula pendula	Y	200	SS	11	0.5	2.5	2.5	2.5	2.5	C2	F	10 to 20	Regeneration immediately on edge of retaining wall	No works required at inspection time	Removal of existing retaining wall/backfilling affecting unacceptable levels of RPA. Remove and replace within landscape plan	2.4

Tree Ref on plan	Common Name	Latin Name	Age Class	Stem diameter in mm	Multi/single stem	Ht. in M	Lower crown height	Canopy Spread N	Canopy Spread E	Canopy Spread S	Canopy Spread W	Retention value	Physio. Cond.	Remaining contrib. in years	Arboricultural comments	Preliminary Management Recommendations	Management Recommendations following AIA	Root Protection Area
42	Ash	Fraxinus excelsior	Y	180	SS	11	0.5	0.5	3	1.5	1.5	C2	F	10 to 20	Part of linear group. Unbalanced crown shape. Crown distorted due to group pressure.	No works required at inspection time	Unaffected directly. Retain and protect by installation of TPZ as shown on TPP.	2.2
43	Silver Birch	Betula pendula	Y	200	SS	8	0.5	2	2	2	2	C2	F	10 to 20	Part of linear group.	No works required at inspection time	Unaffected directly. Retain and protect by installation of TPZ as shown on TPP.	2.4
44	Goat Willow	Salix caprea	OM	280	SS	9.5	0.5	2	5.5	4.5	3	R	F	<10	Poor shape & form. Unbalanced crown shape. Crown distorted due to group pressure. poor condition	Remove tree and root	Removed for condition	3.4
45	Goat Willow	Salix caprea	OM	280	SS	9.5	0.5	2	5.5	2.5	3	R	F	<10	Poor shape & form. Unbalanced crown shape. Crown distorted due to group pressure. poor condition	Remove tree and root	Removed for condition	3.4
46	Goat Willow	Salix caprea	OM	280	SS	9.5	0.5	2	2	6	3	R	F	<10	Poor shape & form. Unbalanced crown shape. Crown distorted due to group pressure. Stem failed into boundary wall	Remove tree and root	Removed for condition	3.4
47	Goat Willow	Salix caprea	OM	280	SS	9.5	0.5	6	2	3	3	R	F	<10	Poor shape & form. Decay present on stem. Unbalanced crown shape. Crown distorted due to group pressure. Stem failed, now windblown.	Remove tree and root	Removed for condition	3.4
48	Laburnum	Laburnum anagyroides	OM	375	SS	11.5	0.5	5	5	5	2	R	F	<10	Poor shape & form. Decay and dessication present on stem. Dieback in crown. Crown distorted due to group pressure.	Remove tree and root	Removed for condition	4.5
49	Sycamore	Acer pseudoplatanus	MA	270	SS	11.5	0.5	4	3	4	1	C2	F	10 to 20	Poor shape & form. Spindly habit. Crown distorted due to group pressure.	No works required at inspection time	Removal of existing retaining wall/backfilling affecting unacceptable levels of RPA. Remove and replace within landscape plan	3.2
50	Goat Willow	Salix caprea	MA	270	SS	8	0.5	6	1	3	4.5	R	F	Oct-20	Poor shape & form. failed salix stems re grown	Remove tree and root	Removed for condition	3.2

Tree Ref on plan	Common Name	Latin Name	Age Class	Stem diameter in mm	Multi/single stem	Ht. in M	Lower crown height	Canopy Spread N	Canopy Spread E	Canopy Spread S	Canopy Spread W	Retention value	Physio. Cond.	Remaining contrib. in years	Arboricultural comments	Preliminary Management Recommendations	Management Recommendations following AIA	Root Protection Area
G2	Silver Birch	Betula pendula	MA	280	MS	12	1.5	6	2	3	3	R	P	<10	Dead, declining and dying. Part of linear group. Spindly habit. Leaning South. Dieback in crown.	Remove trees and roots	Removed for condition	2.8
G3	Sycamore	Acer pseudoplatanus	M	190	MS	10	0.5	4	4	4	4	C2	F	10 to 20	Regeneration off site located behind retaining wall. Some trees dying, alert landowner.	Alert landowner	Unaffected by development	1.9
G8	Apple	Malus	OM	230	SS	8	0.5	4.5	1	4.5	1	C2	F	10 to 20	Poor shape & form. Leaning North-East. Broken branches in crown. Unbalanced crown shape. Crown distorted due to group pressure.	Consider removal and replacement to allow development of more suitable and sustainable tree species within landscape plan	Removed for condition and development reasons	2.8