

**ARBORICULTURAL REPORT ON AN OAK ADJACENT TO A PROPOSED
DEVELOPMENT SITE OFF THE ELMS, TALLARN GREEN, MALPAS**

October 2017

Sylvan Resources Ltd. forestry and arboriculture

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1.0 INSTRUCTIONS AND SCOPE OF THIS REPORT

1.1 My instructions are.

- 1) To undertake a BSS 5837 survey of an oak tree near to an area affected by a development proposal.
- 2) To provide a report commenting on the general condition of the tree, a tree survey schedule, a tree survey plan, root protection area plan and arboricultural impact assessment.

2.0 INSTRUCTIONS RECEIVED FROM

2.1 Carter Jonas LLP, South Pavilion, Sansaw Business Park, Hadnall, Shrewsbury, SY4 4AS

3.0 DESIGNATIONS

3.1 No checks have been made to establish if the tree is protected, such checks should be carried out before undertaking any work to the tree.

4.0 TREE SURVEY

4.1 The tree was surveyed in accordance with British Standard Specification 5837 (2012). The Standard applies to trees whose diameters exceed 75mm measured 1.5 metres from the ground. The findings of the survey are appended and should be read in conjunction with SR 1. This drawing indicates the locations of the tree, the extent and shape of its crown, and the BSS 5837 category into which it has been placed. The survey method is described in BSS (2012) "Trees in Relation to Construction." A detailed inspection with respect to decay, defects and hazards was not made. No investigations were made to determine the impact of the trees on existing structures both within and outside the boundaries to the property.

5.0 SITE DESCRIPTION

5.1 The site is an area of open land grazing land. It is bordered by residential development on its east, south and west boundaries, and by grazing land to its north. It forms part of the garden to number 1 the Elms. On its east and west boundaries, the site is enclosed by garden fences. To its north it is enclosed by a post and rail fence. The Oak tree is located on land belonging to a neighbour, it is close to the north-west corner of the site. The site is reasonably level and freely draining. A metalled track runs along and within its east boundary. This has become colonised by grasses and other field plants.

6.0 DEVELOPMENT PROPOSALS

- 6.1 Planning permission is being sought for a single residential unit. The location of the proposed unit is shown on the appended drawing SR 2.

7.0 ARBORICULTURAL IMPACT ASSESSMENT

7.1 Tree removal

The development proposals do not require the removal of any trees, shrubs or hedgerow.

7.2 Tree protection

BSS 5837 describes a Root Protection Zone (RPZ) and the tree it encloses as concentric circles. For single stemmed trees, the radii of RPZs are assumed to be twelve times the diameters of the enclosed trees, for multiple stemmed trees, the radii are derived from the square root of the squared sum of the diameters of the stems. Irrespective of these rules, the Standard indicates that the radius of an RPZ should rarely (if ever) exceed 15 metres. The area and shape of an RPZ may be changed if local conditions dictate or the tree's condition indicates that a larger zone is required. The area shaded grey on SR 2 shows the tree's RPZ calculated in accordance with the BSS 5837 formula. The drawing also shows as a solid purple line, the boundary to a Tree Protection Zone (TPZ). This encloses the tree's canopy and part of its RPZ. The area shaded orange on SR 2, is part of the tree's RPZ which falls outside the TPZ boundary. Access over this area will be required to enable development, otherwise it is unaffected by it. Its protection together with protection of the part of its RPZ enclosed by its TPZ, is specified below.

8.0 METHOD STATEMENTS FOR PROTECTING THE TREE DURING DEVELOPMENT

8.1 RPZ area enclosed by the TPZ boundary

- 8.1.1 Before starting development, the TPZ boundary shall be identified by white painted marker pegs driven into the ground along its perimeter. If existing hard surfaces prevent identification by this means, the boundary shall be marked with white paint. "Heras" type fencing is to be erected outside these boundaries. Signs instructing people to keep out of the TPZ shall be fixed to the fencing which shall remain until construction ends.

8.2 RPZ area outside the TPZ boundary.

(Shaded orange on SR 2)

- 8.2.1 The extent of the tree's RPZ falling outside the TPZ boundary fence shall be identified by white painted marker pegs driven into the ground along its perimeter. Existing levels within this area shall not be reduced, they may be raised by the addition of topsoil or an inert no fines granular fill.
- 8.2.2 Unless access into this area is required by plant and machinery, the ground shall be protected by laying a geotextile membrane over its surface and covering this with 100mm of bark mulch followed by a layer of scaffold boards.
- 8.2.3 If access for plant and machinery is required, loading shall be dissipated by the installation of ground protection comprising Cellweb or a similar cellular confinement system laid over a geotextile membrane and filled with washed no fines stone. Further specifications relevant to the use of Cellweb are available at:
http://www.geosyn.co.uk/products/cellweb-trees.asp?product_id=21.
In consultation with the developer, the manufacturer shall provide specifications appropriate to the load the ground protection is required to carry. These shall be supplied to the local authority tree officer and supervising arboriculturalist for approval before development starts. Ground protection shall be laid by machines working outside the RPZ boundaries and reaching into them. Access into the protected area by plant and machinery shall not be permitted until installation of the ground protection has been completed.
- 8.2.4 Ground protection shall remain in situ until completion of development, at which time it shall be removed by hand or by machinery operated from outside the tree's RPZ boundary.

8.3 Tree protection at all stages of the project including landscaping after removal of the TPZ boundary fencing.

- 8.3.1 Existing ground levels within the tree's RPZ shall not be reduced. Loose organic matter can be removed and new surfaces established above former levels. An inert granular fill may be used to raise levels within the TPZ. Suitable granular materials include, no-fines gravel, washed aggregate, or cobbles. It may be necessary to install a load suspension layer such as a cellular confinement system.
- 8.3.2 Contaminants, for example, concrete mixings, diesel oil and vehicle washings, shall not be discharged within 10m of the tree or where they may leach into its RPZ.

- 8.3.3 Fires shall not be lit on sites where flames and smoke may be carried to within 5 metres of the tree's foliage, branches and stems.
- 8.3.4 Notice boards, telephone cables or other services shall not be attached to the tree.
- 8.3.5 Existing ground cover vegetation shall be killed using an appropriate non residual contact herbicide.
- 8.3.6 If extensive pedestrian access is required over the RPZ it shall be protected by using scaffold boards as walkways. Additional protection can be provided by laying these over a compressible layer such as bark mulch spread over a porous geo-textile membrane (paragraph 8.2.2 above).
- 8.3.7 Vehicles and machinery shall not enter the RPZ unless the ground is protected in accordance with paragraph 8.2.3. Outside the RPZ, care shall be taken to ensure that machines can operate without damaging the tree. Where adequate clearance cannot be maintained, the tree may be pruned to facilitate access. Pruning shall be specified and supervised by an arboriculturalist.
- 8.3.8 Excavations within the RPZ are not envisaged. If later they are found to be necessary, they shall be undertaken only after consultation with the supervising arboriculturalist. Digging shall be done by hand, to avoid damaging larger roots. Exposed roots shall be wrapped in dry, clean hessian sacking and protected from temperature changes. Roots smaller than 25 mm diameter may be pruned back, preferably to a side branch, using a sharp tool to make a clean cut and leaving as small a wound as possible. Roots larger than 25 mm shall only be severed following consultation with an arboriculturalist. If roots are accidentally damaged, the supervising arboriculturalist shall be notified. Prior to backfilling, any hessian wrapping shall be removed. Before soil or other material is replaced the retained roots shall be surrounded with a sharp sand and top soil mix or other approved, loose, inert, granular fill. Fill material shall be free of contaminants and other foreign objects potentially injurious to tree roots.
- 8.3.9 Water levels shall remain unchanged in the TPZ. Permeable surfaces may be used where surface water is unlikely to be contaminated by materials toxic to trees. If contamination is likely, an impermeable surface may be specified. Land drainage may be required if excess water is likely to accumulate but drains shall not be located within root protection areas.

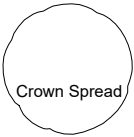
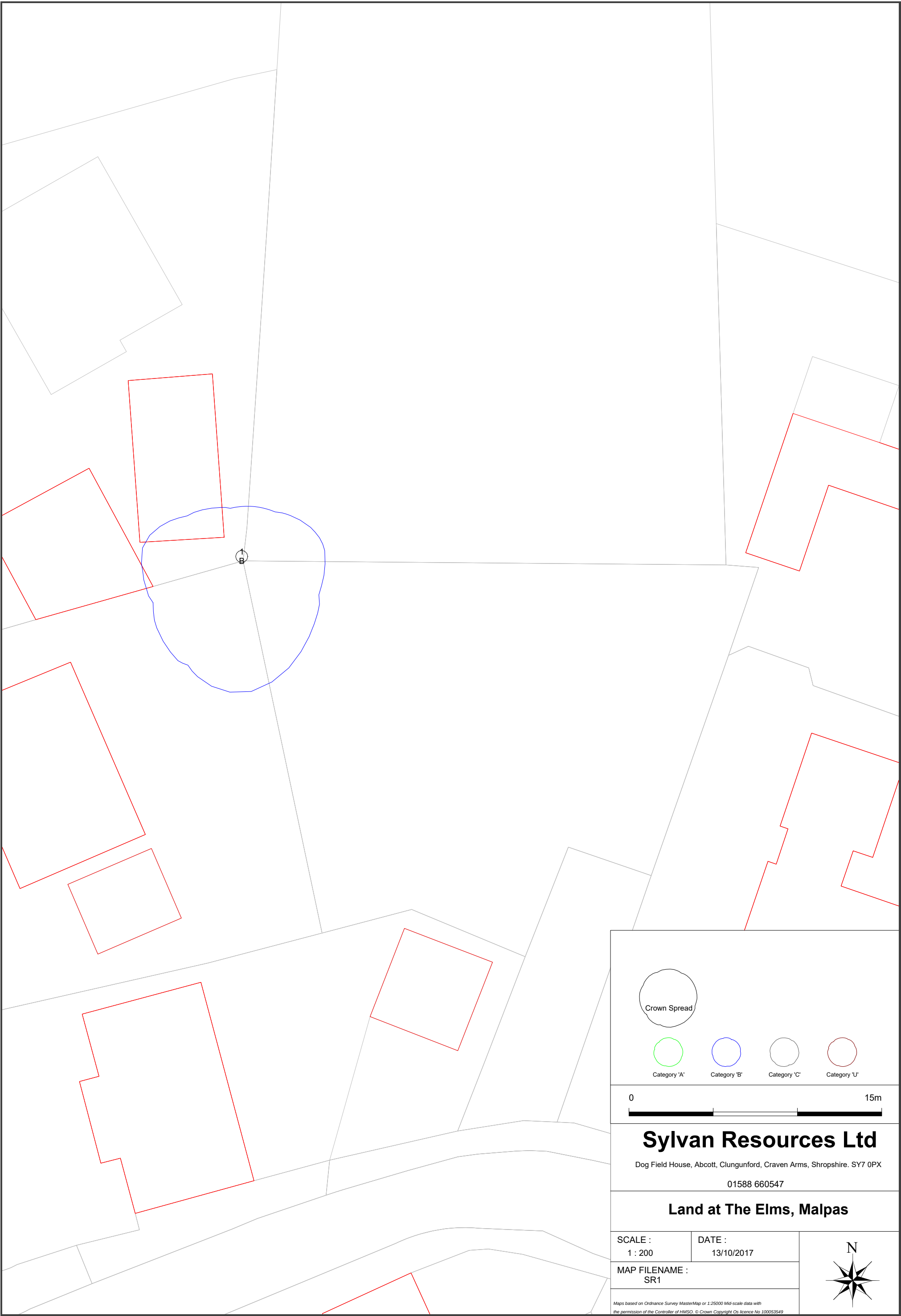
9.0 **CONCLUSION**

- 9.1 Subject to compliance with this report, the Oak tree is not a constraint to the proposed development, and there is nothing to indicate or suggest that the tree will be harmed by development of the site.

J C Terry MSc, MICFor, MRICS, CENV
Sylvan Resources Ltd.
13th October 2017

Tree ID	Common Name	Latin Name	Maturity	Height (m)	Canopy clearance (m)	Number of Stems	Stem	Canopy spread				Structural condition			BSS5837 Category	Life Expectancy	Physiological Condition	Comment
							Stem 1 (mm)	Spread - N (m)	Spread - E (m)	Spread - S (m)	Spread - W (m)	Crown	Stem	Basal Area				
1	Common Oak	Quercus robur	Mature	14	2.2	1	730	3	5	8	6	Good	Good	Good	B2	20-40yrs	Fair	Dead wood in crown, crown dying back, consider crown reduction or allow to retrench.

* Offsite canopy dimensions estimated and checked by comparison to canopy measurements taken from aerial photography.



Crown Spread



Category 'A'



Category 'B'



Category 'C'



Category 'U'



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Land at The Elms, Malpas

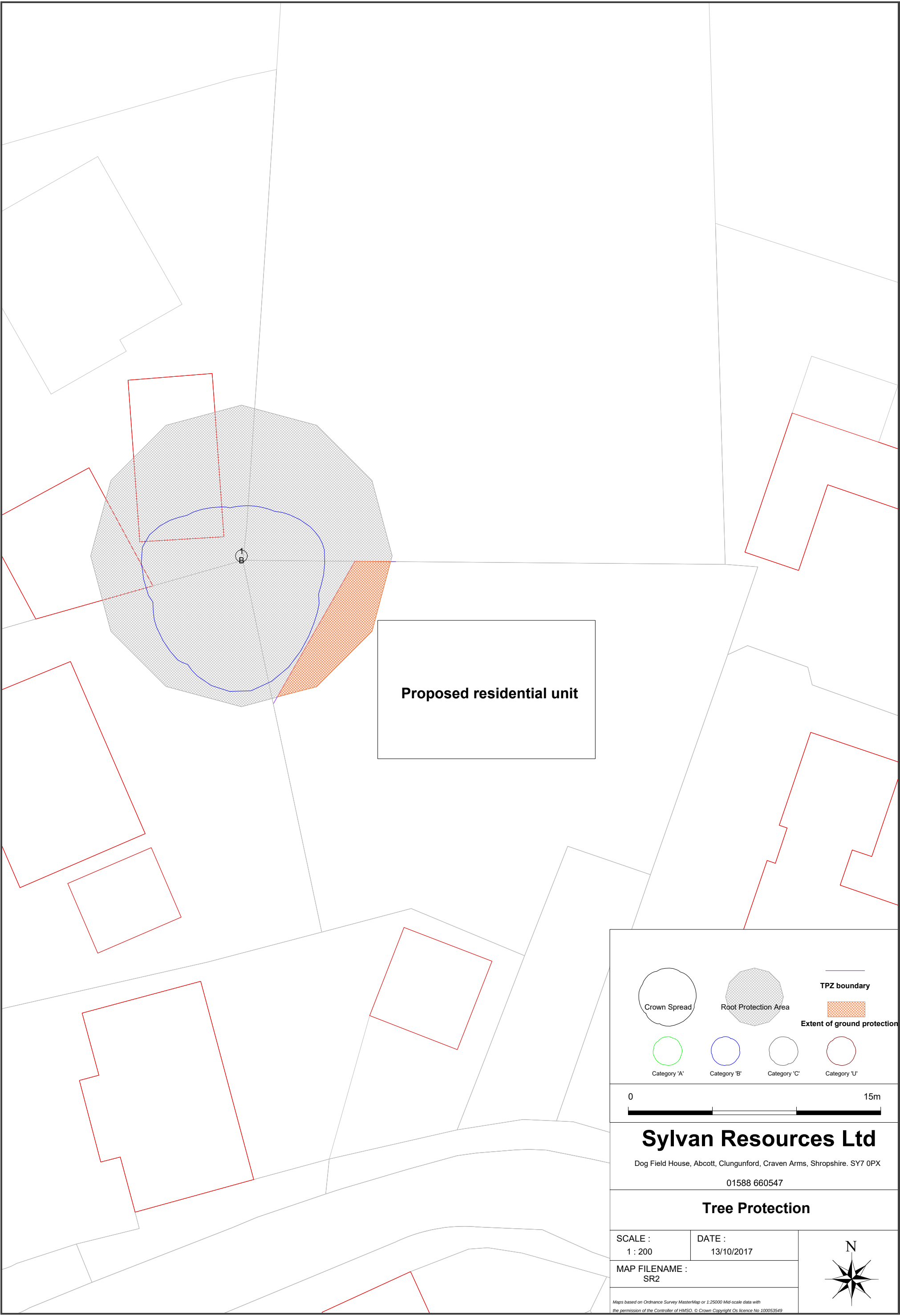
SCALE :
1 : 200

DATE :
13/10/2017

MAP FILENAME :
SR1



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Crown Spread

Root Protection Area

TPZ boundary

Extent of ground protection

Category 'A'

Category 'B'

Category 'C'

Category 'U'

0

15m

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Tree Protection

SCALE :
1 : 200

DATE :
13/10/2017

MAP FILENAME :
SR2

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