



**Note:** No unauthorised excavations are to be carried out within the RPAs of any retained trees. Any level changes must form part of a construction method statement & must protect the rooting environments of all retained trees.

**Tree Categories**  
 Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.  
 Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.  
 Category 'V' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.  
 Category 'W' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.  
 Category 'X' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter <math>\le 50\text{mm}</math>.

**Root Protection Area**  
 In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Area (RPA) should be defined around each of the category 'U', 'V' and 'W' trees. This is a minimum area in which should be left unexcavated around each retained tree.  
 The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.  
 The calculated RPA is capped to 75%<sup>1</sup>, which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

**Arboricultural Impacts**

Impacts	Nos. of trees
Trees to be removed	9
Groups / Hedges to be removed (Partial removal of groups)	2 (05)
Trees with proposed measures (RPA)	2 (05)
Groups / Hedges with proposed measures (RPA)	2
Trees that will require pruning	3
Groups / Hedges that will require pruning	2
Trees to be transplanted	0
Groups / Hedges to be transplanted	0

  

No.	Species	Proposed construction	Incursion
T03	Sycamore	Parking spaces	RPA
T13	Hedgerow	Driveway	RPA
T15	Willow	Hard surfacing	RPA
G04	Various	Hard surfacing & drainage	RPA
H04	Leaved cypress	Pumping station	RPA

**Tree Work Schedule**

No.	Species	Works	Category
T01	Elder	Fell to ground level, remove stump	C1
T02	Elder	Prune canopy back to boundary	C1
T03	Sycamore	Crown lift to 3m above parking spaces	B1
T04	Hedgerow	Fell to ground level, remove stump	C1
T05	Sycamore	Fell to ground level, remove stump	C1
T06	Elder	Fell to ground level, remove stump	C1
T10	Hedgerow	Fell to ground level, remove stump	U
T11	Hedgerow	Fell to ground level, remove stump	C1
T12	Hedgerow	Fell to ground level, remove stump	C1
T15	Willow	Crown lift to 3m above hard surfacing	B1
T16	Holly	Fell to ground level, remove stump	C1
T17	Apple	Fell to ground level, remove stump	C1
G02	Various	Fell to ground level, remove stumps	C2
G03	Various	Fell to ground level, remove stumps	C2
G04	Various	Prune canopy back to boundary	C2
H04	Leaved cypress	Prune canopy back to boundary	C2

**No. of individual trees to be removed**

U	V	W	X
0	0	0	0

**No. of groups / hedges to be removed**

U	V	W	X
0 (0)	0 (0)	0 (0)	2 (0)

(-) = Partial removal of a group

**Arboricultural Method Statement**  
 All tree work to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.  
 All planting areas to be removed and the site to be left as found.  
 Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber forklifts, tractors, excavators or cranes shall be parked or driven beneath the canopy of any retained trees, to prevent subsequent compaction and root death.



Project: Land off Leeds Road, Heckmondwike West Yorkshire WF16 9DB

Client: Orion Homes Ltd

Drawing: Arboricultural Impact Assessment

Based on: 2403-02-001 - Proposed Site Layout

Drawing No: Arbtech AIA 01 Rev: 1

Date: May 2025 Scale: 1:200 @ A0 Drawn: AST

**Key:**

Tree Nos.	T1	Tree Category	U	V	W	X	Trunk	○
RPA	○	Category 'U' trees	●	●	●	●	Category 'W' trees	○
Category 'U' trees	○	Category 'V' trees	○	○	○	○	Tree to be removed	T0
Incursion - Hard surfacing	■	Incursion - Structures	■	■	■	■		

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