

ROUSE HOMES LTD

RESIDENTIAL DEVELOPMENT

**NEW ROAD,
TANKERSLEY**

LANDSCAPE MANAGEMENT DOCUMENT

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A INTRODUCTION

This Management Plan sets out the management prescriptions to be adopted for the planted areas provided as part of planning consent for the residential development site at New Road, Tankersley.

In terms of timescale the Landscape Contractor will be responsible for the maintenance of the newly landscaped areas on residential plots until handover to the occupier. During this period the Landscape Contractor will be liable for any defective work, including the replacement of failed plant material, in accordance with the approved plans and to the satisfaction of the Client and the consultant Landscape Architect. Once the areas are handed over to the individual Occupier they will assume responsibility for their ongoing maintenance including an obligation to undertake any replacement planting of failed plant material for a further period of 4 years in order to satisfy the planning condition. The Open Space area to the frontage of the site will be managed by a Resident's Management Company to which all residents will contribute. Once the spaces have been managed by the Landscape Contractor for the Rectification Period the ongoing management will be passed to the Management Company in perpetuity.

The management prescriptions contained in this document are for the future maintenance and management of work detailed on the following drawings:

R/2163/1D Landscape Masterplan
R/21630/2B, 3B and 4B Landscape Details

The Landscape Masterplan is attached to this document as Appendix 1. All relevant drawings have been submitted to Barnsley MB Council with the application to discharge drawings and can be obtained from Rouse Homes.

A.1 Documents

In the preparation of this document reference has been made to:

- PRELIMINARY ECOLOGICAL APPRAISAL Ref No: 180518/Rev 3. Date: 20th February 2019 produced by Whitcher Wildlife Ltd.

A.2 Site Location

The site is located off New Road in Tankersley.

A.3 The Site

- A.3.1 The site is roughly rectangular in shape, with its longest side orientated in a north east – south west direction.
It is the former company shop site with New Road to the north (with a small group of houses beyond), woodland to the north west extending to the south east and houses to the east.
- A.3.2 Once developed, the site will be laid out as housing with associated road, pavement and open space.

A.4 The Management Document

This Management Document describes the Management Operations for all areas until handover to the individual occupiers.

The purpose of this Management Plan is two-fold:

1. Setting out the long term aims and objectives for the site so that all stakeholders and relevant parties can understand how it is intended that the landscape components be developed and establish.
2. Providing a prescriptive series of timed operations which will form a working document to instruct the appointed Landscape Contractor and occupiers on how the objectives will be achieved.

B. MANAGEMENT AIM AND OBJECTIVES

B.1 Management Aim

The operations detailed within this management document are intended to instruct the appointed Contractor and future occupiers to carry out the specified maintenance operations to achieve a healthy, landscape structure to the development's private and communal areas, with a focus towards visual amenity. This will enhance the local environment for residents, pedestrians and local vehicular traffic.

B.2 Landscape Vision

The 'Landscape Vision' is the term given to what it is intended will be the outcome of the management of the site. It is made up of various elements (visual, ecological and recreational) which are described separately below but which are intrinsically linked and must work in harmony in order to achieve a satisfactory outcome.

B.2.1 Visual

The site shall be managed to provide a visually attractive landscape setting for the residential development which both frames and filters views into the site and that is in keeping with the landscape character of the area.

B.2.2 Ecological

The site shall be managed to ensure that the native species, tree and shrub planting establish well to provide a diverse wildlife habitat. This shall underpin both what and how operations are carried out throughout the site.

The ecological objectives for the long-term management, maintenance and monitoring of the habitats comprise the requirements to:

- Maintain the new hedgerows with a bushy growth habit and ensure they remain attractive and complementary to the surrounding habitat.
- Minimise the potentially adverse environmental impacts resulting from any management operations on site including minimising the use of herbicides and pesticides.
- Ensure that pruning and trimming is ONLY undertaken outside the bird nesting season (generally accepted as being 1st March to 31st July but can be longer depending on the species) AND, where feasible, ensuring that the food value of the native vegetation is maximised by aiming to carry out any pruning or trimming in late winter (January or February) or, where ground conditions or other mitigating circumstances prevent this, then as late as possible in the Autumn in order to retain nuts and berries as winter food for the wildlife.
- If any urgent works need to be carried out within bird nesting season then all trees and shrubs MUST be inspected and agreed by a fully qualified ecologist within each season.
- Maintain and enhance the cultural and landscape value of the site by ensuring that the habitat management incorporates visual amenity benefits.

B.2.3 Recreational

The communal open space at the site entrance will be managed to provide an open and attractive entrance to the site for both residents and users of the adjacent road.

B.3 Best Practice Guidelines

In order to achieve these aims and objectives in a safe, environmentally responsible and sensitive manner there are a series of good practice guidelines which should be observed. Such good practice seeks to minimise the potential for negative impact on the environment and the general public. They are detailed below, in no order of ranking. Reference should also be made to the relevant legislation set out in Appendix 2.

- Ensuring that all operatives are suitably qualified, certified and competent to carry out the specific task or are supervised by such a person.
- Ensuring that all works are carried out in accordance with all relevant legislation; British and European standards; good horticultural and arboricultural practice and that the required risk assessments are undertaken and documented as necessary before carrying out works.
- Ensuring that all operations are carried out at the appropriate times of year during suitable weather and ground conditions to minimise adverse impacts on the existing vegetation and ground conditions.
- Ensuring that all tools and equipment are fit for purpose and appropriate for the particular job and site conditions. The Contractor shall allow the consultant Landscape Architect to inspect all machinery and tools intended for the Aftercare Works prior to its being brought to site if required. The use of heavy plant or machinery is to be minimised to reduce trampling of vegetation and ground compaction.
- Ensuring the safety of all members of the public during operations on site. Using interpretative signage to inform the public of operations on site where necessary and particularly where those operations are considered sensitive or may pose a danger to the public.
- Ensuring that all waste (not retained or re-used on site and including any arising in connection with the approved use of chemicals) is disposed of in accordance with the relevant Waste Management Regulations.
- Monitoring operations on site and keeping records of what was carried out, when and what observations were noted which may need immediate action or need to feed into future reviews of the management plan.

B.4 Chemical Control

When chemical compounds/herbicides are to be used, the Contractor shall ensure that all operatives have read and follow carefully the instructions on the manufacturer's label.

The Contractor shall also consult the 'Recommendation for Safe Use of Chemical Compounds Used in Agriculture and Food Storage' published by DEFRA, Fisheries and Food: Safety Pesticides and Infestation Control Division, London SW1, and

implement recommendations as necessary.

The Contractor shall submit the name of the chemical compound/herbicide, its supplier, a breakdown of its constituents, the mode and recommended rate of application and any species susceptibility for the Landscape Architect's consideration. Approval by the Landscape Architect for the use of a particular chemical compound/herbicide shall, in no way, relieve the Contractor of his contractual obligations.

All chemical compounds/herbicides used shall be kept safe at all times on site. Empty containers must be removed from site and disposed of safely.

B.5 Control of Invasive Species

Whilst no invasive species are currently present on site, the following guidelines should be followed if any invasive or injurious plants are identified on site in the future.

If any *invasive* or *injurious plants* are identified on site, the appropriate method of control shall be implemented, in accordance with relevant best practice and the Environment Agency recommendations.

The Wildlife & Countryside Act 1981 places a legal responsibility on land owners / land managers to control any *invasive, non-native plant* and *animal species* which have been identified as having 'the ability to spread causing damage to the environment, the economy, health or the way we live'. This responsibility also extends to native plants which are deemed to cause a problem to farming productivity. These are termed *injurious weeds*.

The list of plant and animal species which have been identified is listed in Schedule 9 of the ACT.

The legal duty placed on land owners does not oblige the land owner to remove or treat the invasive or injurious species but requires that the land owner does not:

- Allow invasive plants to spread onto adjacent land – the owner of that land has the right to take legal action if this occurs
- Plant or encourage the spread of invasive plants outside your property – this can include moving contaminated soil from one place to another or incorrectly handling and transporting contaminated material and cuttings

C MANAGEMENT OPERATIONS

The following operations relate to the maintenance requirements for the various landscape elements on the site in relation to plot landscape and the native planting. These operations shall be undertaken by the householder who will manage the site following occupation of their property or the appointed contractor who will maintain the communal areas on instruction by the Resident's Management Company. Prior to occupation the site shall be visited at the appropriate times of year by the contractor and for a sufficient number of times to ensure that the operations set out below are carried out with the desired outcome stated.

NOTE: All pruning and hedge trimming shall take place during September-November, outside the nesting season, to prevent the disturbance of nesting birds. In addition, vegetation clearance generally shall be carried out carefully and prior to removal shall be checked for harbouring animals.

Operational schedules, relating to the work items in the following sections are attached at Appendix 3.

C.1 STANDARD TREES

All standard trees within the development shall be maintained by the Contractor throughout the twelve (12) months maintenance and rectification period following practical completion of the planting works and then the maintenance shall pass to the householder.

- C.1.1 An area of 1000 mm in diameter shall be kept weed-free around each planted tree. Strimmers shall not be used for weed control around trees planted into grass within 500mm of their trunks. All weed control within 500mm of tree trunks shall be carried out by hand or by chemical means or with the protection of a strimmer guard.
- C.1.2 Where approved chemical compounds/herbicides are used, the resultant dead surface matter and dieback of weed growth shall be removed from the areas within fourteen (14) days of application.
- C.1.3 The trees shall be maintained at all times and the stakes and ties shall be inspected regularly to make any required adjustment to conform to stem growth and to prevent chaffing. Damaged or defective stakes and ties shall be replaced as required.
- C.1.4 Trees will be inspected to ensure they remain firm and well secured after frost heave, strong winds and other ground disturbance. 'Collars' at the base of the trunks created by tree movement shall be broken up by forking and backfilling with topsoil as necessary and refirmed.
- C.1.5 A slow release fertiliser shall be applied to the base of each standard tree for the first 3 years after planting. This shall be applied in March/April of each year, at the following rates:
 - a) Advanced Nursery stock, Extra Heavy Standards, Heavy Standards, Selected Standards & Standards 200 gms/Tree
 - b) Light Standards & Feathered Trees 100 gms/Tree
 - c) Specimen Plants, Transplants & Shrubs (in pits) 50 gms/Plant

d) Plants in Shrub Beds & Hedge Lines

25 gms/Plant

- C.1.6 Dead or damaged branches shall be pruned in accordance with section C.5. Chippings / branches resulting from these prunings may be left in small habitat piles in discreetly located sites within the new native tree and shrub planting and the existing hedgerow, as agreed with the consultant Landscape Architect / Ecologist. Where no suitable locations are found, the arisings shall be removed off site.
- C.1.7 Watering shall be carried out as specified under watering section C.7.
- C.1.8 All failures shall be replaced annually in accordance with clause C.8.
- C.1.9 Trees positioned in shrub beds shall have their tree pits maintained as for shrub beds, as specified in clause C.2.
- C.1.10 For trees positioned in ornamental lawn areas where tree pits have been returfed or seeded, Aftercare Work shall be as specified in grass maintenance/mowing section C.9.
- C.1.11 Tree stakes and guards shall be inspected at the end of Year 3 and where trees have established sufficiently well they shall be removed. Where trees are still considered to require support, stakes shall be left in place and re-inspected at the end of Year 4. Ideally all stakes shall be removed by the end of Year 5 so that the trees develop sufficiently robust stems and do not rely on support.

C.2 ORNAMENTAL SHRUB PLANTING

Maintenance of Shrub Beds

Once handed over by the Landscape Contractor, shrub planting will be maintained by the householder or the Resident's Management Company.

- C.2.1 Shrub beds, including staked trees and specimen plants, shall be kept free from weed or grass. Forking or hoeing shall be carried out to remove noxious annual and perennial weed roots entirely from the shrub bed before the formation of seed heads. Removal of weed foliage only shall not be permitted.

All weed material resulting from the operation described above shall be collected from the shrub beds and removed from site by the contractor until occupation.

- C.2.2 Where herbaceous material or bulbs are incorporated into shrub beds the use of chemical compounds/herbicides shall not be permitted and the areas shall be hand cultivated only.

- C.2.3 Following frosty weather and strong winds, shrub beds shall be inspected to check for plants that have been loosened or lifted and any that have shall be firmed in.

- C.2.4 A slow release fertiliser (eg Enmag or similar approved) shall be applied over each shrub bed at a rate of 25 gms/shrub once a year for the first three (3) years after planting in Spring (March/April).

- C.2.5 Shrubs shall be pruned once annually to remove all deadwood, broken or damaged or crossing branches as specified in section C.5. Shrubs shall be pruned where appropriate during Years 1-3 to promote bushiness.

All arisings shall be carted off-site.

- C.2.6 All failures shall be replaced in accordance with section C.8.

- C.2.7 The ornamental planting areas within the communal areas shall be assessed in Year 5 prior to the end of the five (5) year management period and any over-mature planting shall be replaced as agreed with the consultant Landscape Architect and Client at the annual walkover.

C.3 NEW ORNAMENTAL HEDGES

Maintenance of Hedges

- C.3.1 Areas beneath hedgerows shall be kept free from weed growth. Hand weeding shall be carried out to remove noxious annual and/or perennial weed roots before the formation of seed heads. Bark mulch layer shall be kept topped up to 50mm depth.

All weed material resulting from the operation described above shall be collected and removed from site.

- C.3.2 Following frosty weather and strong winds, the hedgerow shall be inspected and any plant that has been loosened shall be firmed in.

- C.3.3 A slow release fertiliser (eg Enmag or similar approved) shall be applied over each shrub bed at a rate of 25 gms/shrub once a year for the first three (3) years after planting in Spring (March/April).

- C.3.4 Hedges shall be pruned to ultimately achieve a healthy, dense, bushy hedgerow between 1 & 1.5 metres in height and between 400 & 500mm in width.

- Flowering evergreen hedges should be pruned after flowering and formative pruning shall be carried out as required over the first 3 to 4 years plants after planting to achieve the desired height and width. Once this is achieved hedges can be lightly trimmed to maintain their shape.
- Beech hedges should be lightly pruned in winter and mid-summer over the first few years until the desired height and width is achieved. When the hedge has reached its desired height clipping should be carried out in summer aiming to clip once in early June to maintain the bushiness of the hedge and again in early August. This later clipping produces a late flush of leaves which will stay on the branches over winter.

All arisings shall be carted off-site.

- C.3.5 All failures shall be replaced in accordance with section C.8.

C.4 NEW NATIVE HEDGEROWS

Maintenance of Hedgerows years 1 - 4

- C.4.1 Native hedgerows are to be maintained by the contractor for the length of the 12 month maintenance and rectification period. The hedges will then be managed by the householders in whose gardens the hedge is located.
- C.4.2 An area of 300 mm diameter around each transplant shall be kept free from weed growth. All invasive herbaceous scrubby vegetation, (e.g. Bramble & Nettles) and non-native or highly invasive tree species shall be cleared and removed from site four (4) times annually.
- C.4.3 Transplants shall be firmed in as necessary at each maintenance visit and particularly in Year 1 after planting after cold and frosty conditions before roots have taken hold.
- C.4.4 Prune hedgerows to 450 mm in Year 3 to encourage bushiness. In Year 4 trim sides and top to begin formative pruning into an A shaped, dense hedge with a maximum height of 4 metres within rear gardens and along the site entrance and parking area to side of plot 16.
Prune only out of the bird nesting season (1st March to 31st July).
- C.4.5 Replace all failures in Year 1 in accordance with Section 8.
- C.4.6 In Years 2-4 replace all failures as required to produce a uniformly vegetated hedge line.
- C.4.7 Remove all litter/fly tipping at each maintenance visit.
- C.4.8 Top up mulch annually in Spring to restrict competition from grasses and herbs during Years 1-4 (See Section 6) to the original depth.
- C.4.9 Do not apply fertilisers to the hedge line or use fertilisers, manure or pesticides within 2 metres of the centre line of the hedge to prevent leaching and the growth of undesirable, competitive ruderal weeds.

Maintenance of Hedgerows year 5

- C.4.10 Generally aim to maintain hedges to a maximum height of 4m. Prune in Year 5 to establish the desired height and width and maintain the A shape and density of the hedges. Prune outside the bird nesting season (1st March to 31st July) and aim to cut in January or February or, where ground conditions or other mitigating circumstances prevent this, then as late as possible in the Autumn. Avoid winter cutting in order to retain nuts and berries as winter food for the wildlife.
- C.4.11 Remove any non-native or competitive plants from the ground layer by hand pulling to avoid disturbance to surrounding ground and plant life and dispose of arisings off site.
- C.4.12 Do not apply fertilisers to the hedge line or use fertilisers, manure or pesticides within 2 metres of the centre line of the hedge to prevent leaching and the growth of undesirable, competitive ruderal weeds.

- C.4.13 Assess the need for planting to either replace defective or failed plant material or gap up as necessary to produce a consistently uniform hedge line.
- C.4.14 Remove all litter/fly tipping at each maintenance visit.

C.5 PRUNING

- C.5.1 All pruning work, whether on newly planted material or existing vegetation, shall be carried out in accordance with BS 3998:2010 where applicable. Resultant wounds shall be treated with approved fungicidal sealant.
- C.5.2 All pruning of trees shall be carried out between November and March inclusive. The following operations shall be carried out:
- a) All diseased tissue and any dieback shall be pruned to the nearest bud with clean wood.
 - b) The removal of unsightly 'water shoots' and epicormic growth from standard, selected standard, heavy standard and extra heavy standard trees.
 - c) Formative pruning to remove branches that cross, are damaged or have malformed shoots, to maintain a balanced tree crown.
- C.5.3 Broken and vandalised branches shall be cut back to the next joint, removing splinter wood, and treated with an approved sealant. If the tree, in the opinion of the consultant Landscape Architect is beyond pruning, it shall be removed and replaced in the next available planting season. The ground over the removed tree shall be made good as required.
- C.5.4 Newly planted shrubs shall be pruned once annually, at the end of the growing season, to remove all deadwood, broken, damaged or crossed branches. At the end of Year 3 shrubs shall be pruned as C.5.5 below.
- C.5.5 Pruning of existing well established shrub material shall be carried out where indicated on the Contract Drawings and shall conform to the following:
- a) Shrubs flowering in winter shall be pruned in spring.
 - b) Shrubs flowering in March to July shall be pruned immediately after flowering.
 - c) Shrubs flowering July to September shall be cut back to old wood in January to February.
 - d) Rose bushes other than Species Roses shall be pruned in February to encourage basal growths and keep plants in a balanced and compact habit.
 - e) Pruning and removal of branches shall be carried out using sharp, clean implements to give a clean cut with one flat face. Any cuts or wounds over 20 mm in diameter are to be painted with an approved sealant.
 - f) The Contractor shall cut newly planted or existing hedges as indicated on the Contract Drawings and in the Schedule of Quantity. Cutting will be such as to encourage a stable shape and remove current growth rather than old wood.
 - g) All arisings from pruning work shall be removed from site.

C.6 MULCHING

- C.6.1 All ornamental shrub planting and hedgerows outside of the residential plots shall be mulched yearly after the completion of the early Spring maintenance visit (i.e. March/April) to achieve a depth of 50 mm.

C.7 WATERING

- C.7.1 New planting shall be watered regularly for the first three (3) years during April, May, June, July and August.
- C.7.2 The following rates are given as a guideline for the volume of water required per visit:

Plant Type	Water Quantity
Trees	30 litres per tree
Specimen Plants	15 litres per plant
Transplants, Shrubs, Hedging and Herbaceous Material	10 litres per plant

(NB 4.5 litres = Approximately 1 gallon)

New trees shall be watered weekly for the first year and fortnightly during Year 2.

From Year 3 onwards watering shall be carried out during periods of dry weather when the temperature $\leq 25^{\circ}\text{C}$ for a period of 10 days.

- C.7.3 The Landscape Contractor shall allow for bringing to site sufficient water carts, hoses or sprinklers to provide adequate water to fulfil the above Specification and shall also be responsible for paying all charges in connection with the supply of water required unless otherwise instructed in writing by the Client or consultant Landscape Architect.

Following handover to the occupier they shall be responsible for the watering of the trees on their property.

C.8 FAILURE OF PLANT MATERIAL

- C.8.1 The Landscape Contractor shall replace, at his own expense, any tree, transplant, specimen plant, shrub or herbaceous material which has died or has not developed full foliage throughout its branches during the twelve (12) months following planting. Replacements shall take place as early as possible during the planting season following the original planting period.
- C.8.2 Once the areas are handed over to the householder or Resident's Management Company, they will assume responsibility for replacement failures for a further period of four (4) years, to achieve eighty (80) per cent or original numbers.
- C.8.3 In Year 1 any plant replacements required as a result of vandalism shall be identified separately and shall be provided by the Contractor at the rates indicated in the Schedule of Rates (if provided) or as agreed in writing between the Contractor and the consultant Landscape Architect.
- C.8.4 All replacement plant material shall conform to the original Specification unless otherwise agreed in writing by the consultant Landscape Architect.
- C.8.5 Any damage to surrounding landscaped areas as a result of the replacement planting shall be repaired and reinstated as required to the satisfaction of the Client or consultant Landscape Architect.

C.9 GRASSED AREAS

C.9.1 Short Mown Amenity Grassland and Lawns

These areas shall be mown as indicated on the Contract Drawings and in the Schedule of Quantity. Litter shall be collected prior to each cut. The disposal of grass cuttings by the chosen machine shall not result in cut grass being left in rows; rather the mowers shall reduce the cuttings to fine particles to be spread around to decompose rapidly.

Works around newly planted trees shall be carried out by hand-tool rather than mechanically.

The grass cutting operation shall include trimming grass edges, trimming around the base of trees, manholes, street lights, signposts, up to the edges of paving, fencing and other boundaries etc. to keep the total area in a neat and tidy condition at all times.

In drought conditions mowing operations shall continue only so long as grass growth continues to reach maximum allowable height. In very wet conditions all operations shall cease until conditions allow operations to continue, without either damaging the surface levels and contours of the grassed areas or leaving divots from mowing machines. Alterations required to the Aftercare Programme, due to special weather conditions, shall be agreed with the consultant Landscape Architect in writing.

C.10 HARDWORKS

C.10.1 Fencing and Gates

Inspect all fences within communal areas for any necessary repair on each maintenance visit and obtain approval / instruction from the Client to undertake repairs as required.

C.10.2 Footpaths

Where indicated on the Contract Drawings and in the Schedule of Quantity, footpaths shall be treated with a total weed killer in accordance with the manufacturer's instructions. The chemical compound/herbicide shall be approved by the consultant Landscape Architect and be of an appropriate type for the conditions on site applied in accordance with the specific requirements of the herbicide type.

C.11 LITTER

C.11.1 Litter shall be collected and carted off-site during each maintenance visit.

C.12 ANNUAL WALKOVER & REASSESSMENT OF SCHEDULES OF WORKS

- C.12.1 An annual walkover assessment will be made by the Client together with a qualified Arboriculturist, Ecologist and the consultant Landscape Architect. Any recommendations shall be carried out within three (3) months of the report, unless any trees are identified as potentially dangerous and in need of urgent attention. In this instance, works shall be carried out Immediately.
- C.12.2 Following the annual inspection, the Management Document will be reassessed and adjusted as necessary.
- C.12.3 At the end of the 5 year period covered by the Planning Condition the site shall be assessed to determine whether the current plan is fit for purpose and shall be adjusted as necessary to meet requirements going forward into perpetuity. The plan shall be reviewed on a 5 yearly basis (in addition to the annual walk over) in perpetuity.

APPENDIX 1

LANDSCAPE MASTERPLAN
R/2163/1D

PROTECTION OF EXISTING VEGETATION

Existing vegetation to be retained on site shall be protected where necessary during works by a tree protective barrier, secured to a scaffold tubing framework with fluorescent tape to the top rail. Protective fencing shall be erected on the canopy drip line wherever possible. Laminated, waterproof A4 signs shall be fixed to the fence posts at 10m intervals bearing the words 'PROTECTED TREE ZONE - NO STORAGE OR OPERATIONS WITHIN FENCED AREA'.

Tracking of machinery, storage of chemicals and building materials shall not be permitted within the protected area. Leaks or spills should be removed immediately and the contaminated soil replaced. No bonfires shall be lit within 5m of the canopy spread. Any excavation work beneath the canopy spread shall be carried out by hand.

All works affecting trees within the development shall be subject to BS 5837:2015.

An area of existing understorey vegetation in the south west corner of the site will be passed over to plots for on going maintenance.

TREE PLANTING

Tree planting to the front gardens of selected plots will break up the hard lines of the buildings and create focal points within the development. The tree species selected will maximise food and nectar sources for birds and invertebrates. Trees will be planted as select and Heavy Standards to provide a reasonable degree of instant maturity to the development. Foundation design of new buildings shall accommodate proposed tree planting in accordance with NHBC guidelines.

Species to be selected from but not limited to:

- Acer campestre (Ac)

Betula pubescens (Bpu)

Betula utilis var. jacquemontii (BuJ)

Carpinus betulus (Cb)

Malus tschonoskii (Mt)

Prunus padus (Pp)
- Prunus subhirtella 'Autumnalis Rosea' (PSAR)

Pyrus calleryana 'Chanticleer' (PcC)

Sorbus aria (Sa)

Sorbus aucuparia (Sau)

Sorbus 'Femby' (SE)

Sorbus Joseph Rock (SJR)



KEY

- Existing trees, hedges and vegetation to be retained.
- Existing trees, hedges and vegetation to be removed.
- Proposed extra heavy standard (14-16cm girth) tree
- Proposed heavy standard (12-14cm girth) tree
- Proposed selected standard (10-12cm girth) tree
- Proposed Beech hedging (Escallonia)
- Proposed evergreen flowering hedge
- Proposed mixed native hedge
- Proposed ornamental shrub planting
- Proposed turf
- Rear gardens
- Proposed 1800mm high close boarded timber fencing (detailed by others)
- Proposed 2000mm high timber close boarded fence (detailed by others)
- Proposed 2000mm high screen wall (detailed by others)
- Proposed 900mm high post and rail fence (detailed by others)
- Proposed brindle herringbone paving (detailed by others)
- Proposed tegula block paving (detailed by others)
- Proposed gravel (detailed by others)

HEDGE PLANTING

Hedges will be planted in selected plots to strengthen boundaries and improve screening. Ornamental hedge planting will consist of Beech and an evergreen, flowering escallonia which will contribute to all year round colour and texture. Beech hedges are to be planted as a double staggered row of 60-80cm high hedging plants and Escallonia as a single row 3/1in m.

NATIVE HEDGE PLANTING

A mixed native hedgerow will be planted along the southern boundary in the rear gardens of plots protected by a post and rail fence. Where space is tight adjacent to Plot 1 the hedge will be reduced to 1m width. The hedge mix will contain Field Maple, Hazel, Holly, Blackthorn, Field Rose and Guelder Rose. (Hawthorn has been avoided due to negative influence on foundations). A similar hedge will be planted on the eastern boundary with New Road.

SHRUB PLANTING

A mix of evergreen and deciduous shrubs will be planted in selected front gardens to soften the development and to provide a valuable food source for birds and invertebrates. A mix of medium/low shrubs will be planted to shrub beds with medium/large varieties used for informal hedging. Species to be selected from but not limited to: (1) density/m2

- Berberis friarilii 'Amstelveen' (5f), Berberis thunbergii 'Atropurpurea Nana' (5f), Berberis cordifolia 'Silberlicht' (6), Buddleja davidii 'Lochinich' (2), Ceanothus thyrsiflorus repens(4), Chaenomeles superba 'Jae Trail'(4), Cornus alba Spaethii(2), Cornus stolonifera Flawiramea(2), Cotoneaster conspicuus Decorus(6), Cotoneaster lacteus(2), Cyttus 'Aligold'(4), Elaeagnus pungens 'Maculata'(3), Escallonia 'Apple Blossom'(4), Eonymus fortunei 'Emerald Gaiety'(6), Festuca spp(6), Geranium 'Johnson's Blue'(4), Hebe albertans 'Red Edge'(4), Hebe 'Autumn Glory'(4), Hypericum x moserianum(4), Juniperus sabina 'Tamariscifolia' (3), Lavandula 'Hidcote'(6), Lonicera 'Maygreen'(4), Lonicera Silver Beauty'(4), Nepeta faassenii(4), Petroskia 'Blue Spire'(6), Potentillum var. Potentilla 'Red Ace'(5), Prunus laurocerasus 'Zabellana'(3), Pyracantha 'Orange Chamer'(3), Rubus x Betty Ashburner(4), Spiraea Gold Flame(4), Spiraea 'Shirobana'(4), Viburnum tinus 'Eve Price'(3)

HARD LANDSCAPE

The following hard surface treatments will be applied:
Pavios/plot paving - 450x450mm Marshall's Saxon flags (Natural)
Private Drives/Estate roads - Tarmacadam
Shared Drive (Plots 11-15) - Marshall's Tegula (Harvest), stretcher edging in Penmant Grey with check kerb block in Charcoal

- Rev.D: Amended in accordance with latest site layout (SF)

Rev.C: Amended in accordance with latest site layout (SF)

Rev.B: Tree codes and shrub beds numbers added (SEL)

Rev.A: Amended to revised planning layout SK-01b (SF)
- Feb 20

May 19

March 19

March 19

Sue Farmer BA MAUD MU

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client

Rouse Homes Ltd

project

Residential Development

NEW ROAD,
TANKERSLEY

drawing title

LANDSCAPE MASTERPLAN

scale

1:500

date

Oct 18

drwn by

SEL

drawing no

R/2163/1D

@A2

APPENDIX 2

Relevant Legislation

WILDLIFE LEGISLATION

Breeding Birds

All wild birds are protected under the **Wildlife & Countryside Act 1981** (as amended) during the breeding season (which is normally assumed to be from the 1st March to 31st July).

Bat species

All British bat species and their roosts are legally protected under the **Wildlife & Countryside Act 1981** (as amended), through inclusion in Schedule 5 and under the **Conservation of Habitats and Species Regulations 2010** which implements the EC Directive 92/43/EEC in the UK. Under the legislation, it is an offence to intentionally kill, injure or capture bats, deliberately disturb bats and damage, destroy or obstruct access to bat roosts. Since the introduction of the **Countryside and Rights of Way (CROW) Act in 2000** it is also an offence to recklessly harm or disturb bats in their roosting places.

Reptile species

The four common reptile species (Common Lizard, Grass Snake, Adder and Slow-worm) are listed under Schedule 5 of the **Wildlife & Countryside Act 1981** (as amended), in respect of Section 9(5) and part 9(1). This protection was extended by the Countryside and Rights of Way (CROW) Act 2000. This legislation makes it an offence to:

Intentionally or recklessly, kill or injure any of the above species and / or;
Sell, or attempt to sell, any part of the species, alive or dead.

The Sand Lizard and Smooth Snake receive greater protection under both the **Wildlife & Countryside Act 1981** (as amended) and from the Conservation of Habitats and Species Regulations 2010 which gives them full protection under Regulation 39.

The legislation protects these species from:

deliberately or intentionally killing and capturing (taking) or intentional injuring;
deliberately disturbing;
deliberately taking or destroying eggs;
damaging or destroying a breeding site or resting place, or intentionally damaging a place used for shelter and protection;
intentionally obstructing access to a place used for shelter; and
keeping, transporting, selling or exchanging; offering for sale or advertising.

Water Vole

Since April 2008 the Water Vole has received full protection under Section 9 of the **Wildlife & Countryside Act 1981** (as amended). Legal protection makes it an offence to:-

intentionally kill, injure or take (capture) a water vole;
possess or control a live or dead water vole or any part of a water vole;
intentionally or recklessly damage, destroy or obstruct access to any structure or place which water voles use for shelter or protection or disturb a water vole while they are using such a place;
sell, offer for sale or advertise for live or dead water voles.

HEALTH & SAFETY LEGISLATION

Health & Safety at Work Act 1974 (and amendments)
HSE's Managing Health and Safety in Forestry

PESTICIDES, BIOLOGICAL CONTROL AGENTS LEGISLATION

Control of Pesticides Regulations 1986 (COPR), as amended by the Control of Pesticides (amended) Regulations 1997 (COP(A)R)
Control of Substances Hazardous to Health 2002 (COSHH)
Waste Management (Duty of Care) Regulations 2002
Waste Management Regulations 1996
Waste Management Licensing Regulations 1994 (plus carious amendments)
Environment Protection Act 1990

APPENDIX 3

Operational Schedules

Operation	Year					Proposed Frequency	Restrictions
	1	2	3	4	5		
Standard Trees - Section C.1							
Maintain tree pits weed free	✓	✓	✓	✓	✓	6 visits per year	Avoid the use of chemicals in sensitive / nature conservation areas
Fertilise trees	✓	✓	✓			Once annually	In March or April
Water trees	✓	✓	✓			Weekly / as required	April to September and weekly during prolonged dry weather (See Section C.7)
Check firmness of trees in tree pits and re-firm as required	✓	✓	✓			At each visit	Carry out additional checks after exceptionally windy or frosty weather during early establishment years (Year 1-2)
Prune damaged branches	✓	✓	✓	✓	✓	As required	Prune as soon as identified (See Section C.5)
Check tree stakes & ties & repair / replace	✓	✓	✓			Every 3 months	Replace with materials to existing specification and replace as soon as identified
Check establishment of trees and remove stakes as required			✓	✓		As required	
Replace defective & failed trees	✓	✓	✓	✓	✓	Once annually in planting season	In nearest available planting season, replacing all failures in Year 1 (the first year planting) and thereafter as agreed at the annual walkover (See Section C.8)
Top up mulch to tree pits in grassed areas	✓	✓				Once annually	In March or April (See Section C.6)
Litter pick and remove all arisings	✓	✓	✓	✓	✓	At each visit	Dispose of to tip in accordance with relevant Waste Management Regulations
Ornamental Shrub Planting - Section C.2							
Maintain shrub beds weed free	✓	✓	✓	✓	✓	6 visits per year	Avoid the use of chemicals in areas containing herbaceous plant material or bulbs
Apply slow release fertiliser	✓	✓	✓	✓	✓	Once annually	In March or April

Check firmness of shrubs in shrub bed and re-firm as required	✓	✓	✓	✓	✓	At each visit	Carry out additional checks after exceptionally windy or frosty weather during early establishment years (Year 1-2)
Water as required	✓	✓	✓			Weekly / as required	April to September and weekly during prolonged dry weather (See Section C.7)
Prune damaged shrubs	✓	✓	✓	✓	✓	As required	Prune as soon as identified
Replace defective & failed plant material	✓	✓	✓	✓	✓	Once annually in planting season	Varied responsibility and replacement requirements dependant on Year of replacement & area (See Section C.8)
Top up mulch	✓	✓	✓	✓	✓	Once annually	In March or April (See Section C.6)
Litter pick / remove fly tipping and remove all arisings	✓	✓	✓	✓	✓	At each visit	Check for harbouring wildlife
<i>New Ornamental Hedge Planting - Section C.3</i>							
Maintain 300mm diameter area around each plant weed free and remove undesirable herbaceous or woody species	✓	✓	✓	✓	✓	Four times annually	Avoid the use of chemicals in sensitive areas
Control the spread of any invasive or undesirable weed	✓	✓	✓	✓	✓	As required	Before flowering / seeding and in accordance with specific requirements for the particular weed species
Check firmness of plant material in ground and re-firm as required	✓	✓	✓	✓	✓	At each visit	Carry out additional checks after exceptionally windy or frosty weather during early establishment years (Year 1-2)
Lightly trim Beech hedges in mid-summer and winter		✓	✓	✓	✓	Once annually	Until desired height and width is achieved
Prune flowering evergreen hedges after flowering	✓	✓	✓	✓		Once annually	Until desired height and width is achieved
Water as required	✓	✓	✓			Weekly / as required	April to September and weekly during prolonged dry weather (See Section C.7)

Replace defective & failed plant material	✓	✓	✓	✓	✓	Once annually in planting season	In nearest available planting season, replacing all failures in Year 1 (the first year planting) and thereafter as agreed at the annual walkover (See Section C.8)
Top up mulch	✓	✓				Once annually	In March or April (See Section C.6)
Litter pick / remove flytipping and remove all arisings	✓	✓	✓	✓	✓	At each visit	Check for harbouring wildlife and dispose of arisings to tip in accordance with relevant Waste Management Regulations
New Native Hedgerows - Section C.4							
Maintain 300mm diameter area around each plant weed free	✓	✓	✓	✓	✓	Four times annually	Avoid use of chemicals and hand pull to avoid disturbing hedge roots and other ground flora particularly as hedge establishes
Identify suitable native tree species for retention as standards. Tag for identification	✓	✓					
Check firmness of plant material in ground and re-firm as required	✓	✓	✓	✓	✓	At each visit	
Hard prune to 450mm height			✓			Once	Out of bird nesting season
Prune sides and top to achieve A shape and encourage bushy growth			✓			Once annually	Out of bird nesting season
Continue pruning to achieve desired height and width carting out cutting to sides in alternate years					✓	Once annually	Out of bird nesting season
Water as required	✓	✓	✓			Weekly / as required	April to September and weekly during prolonged dry weather (See Section 7)
Replace all defective & failed plant material	✓					Once	Under landscape implementation defects
Assess the need for replacing defective & failed plant material to achieve a consistently uniform hedge		✓	✓	✓	✓	Once annually	In nearest planting season - numbers and rates as agreed with Client (See Section 8)

Top up mulch	✓	✓	✓	✓		Once annually	Assess the need for top-up mulch in Year 5 depending on hedge establishment and developing ground flora
Litter pick / remove fly tipping and remove all arisings	✓	✓	✓	✓	✓	At each visit	Check for harbouring wildlife

Grassed Areas - Section C.9

Maintain private garden lawns	✓					As required between height tolerances as specified	
Maintain short mown amenity grassland areas	✓	✓	✓	✓	✓		
Maintain wildflower grass areas during the early establishment period	✓	✓				Up to 3 times for newly established areas in Year 1. Twice in Year 2 (as specified)	Remove arisings
Maintain wildflower meadow areas			✓	✓	✓	Once annually Sept/October	Remove arisings
Apply fertiliser to amenity grass areas only	✓	✓	✓	✓	✓	Once annually	Spring or Autumn
Apply selective herbicide to amenity grass areas only	✓	✓	✓	✓	✓	Once annually	As required and instructed by the Landscape Architect
Reinstate any damaged areas of amenity grass as required by re-seeding or re-turfing		✓	✓	✓	✓	Annually in season	

Hardworks - Section C.10

Maintain fencing and gates & repair or replace any damaged or defective parts as required	✓	✓	✓	✓	✓	As required	Use materials to match existing
Maintain footpath and repair or replace any damaged or defective part as required	✓	✓	✓	✓	✓	As required	Use materials to match existing

Litter - Section C.11

Collect all litter and remove from site	✓	✓	✓	✓	✓	On each visit	

Annual walkover and reassessment of schedules of works - Section C.12

Carry out annual walkover	✓	✓	✓	✓			Act on findings of walkover and make any adjustments to Management Document as required
Undertake necessary survey work with specialist consultants, review this document and prepare new plan as required					✓	Once	Consult with Client, consultant Landscape Architect, Ecologist and Arboriculturist as required