
Mr D ALDEN

DEVELOPMENT AT
BERRYWOOD LANE,
BRADLEY,
ALRESFORD
HAMPSHIRE
SO24 9RY

POST PLANTING MANAGEMENT
/ MAINTENANCE PLAN

DECEMBER 2021



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POST PLANTING MANAGEMENT
/ MAINTENANCE PLAN

David Williams Landscape Consultancy Ltd
Dyers
East Putford
Holsworthy
Devon
EX22 7UG

Ref: DWLC/0395/A5/L2D/DHW.

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1.0 INTRODUCTION

- 1.1 David Williams Landscape Consultancy Ltd (DWLC) were instructed by Mr D Alden (the client) in September 2021 to prepare a landscape scheme and a Management / Maintenance Plan (Notes and schedule) relating to a wildflower meadow and orchard relating to a development for a single dwelling at Berrywood Lane, Bradley, Alresford, Hampshire SO24 9RY.
- 1.2 The landscape proposals plan (Drawing No.0395/L4) and this management / maintenance document has been prepared in order to offset the nitrogen burden arising from the proposed development and is to be in perpetuity. The Site comprises 0.2 ha of grazing paddock adjoining Berrywood Lane and a further 0.6 ha of grazing paddock to the west which it is proposed to change to a low nitrogen wildflower meadow as described in Section 5.0 of the Phase 1 Habitat Survey February 2020 (Doc Ref: Biodiversity Metric Assessment - R2469a) Prepared by John Wenman Ecological Consultancy.
- 1.3 The proposed development which is proposed on the land parcel identified within the redline on plan numbered [FTP.001.A](#) (the application site) and lies adjacent to Berrywood Lane. Further land in the ownership of the applicant which is the land edged in blue to the rear of the application site is proposed as nitrogen nutrient off set land. The proposed species-rich wildflower meadow will also achieve a biodiversity net gain on the site in line with the requirements of the National Planning Policy Framework (NPPF).
- 1.4 This management / maintenance plan relates to the land edged in blue which will be set aside for use as a wildflower meadow / orchard and maintained as such as mitigation for the development which will be secured through a Section 106 legal agreement ensuring that the new low nitrogen usage is secured in perpetuity.
- 1.5 The overall site currently comprises grazing land / paddocks. The proposed residential development will generate a very small increase in nitrogen load as a result of the change in use to urban fabric on that parcel. The proposed change of use of the rear blue lined / offset parcel to wildflower meadow and orchard will result in a significant reduction in nitrogen load from this parcel. Full details of the nitrogen assessment and net nitrogen nutrient reduction is set out in the Nitrogen Nutrient Assessment report (Doc Ref: 20048/1 dated 15/05/2020) prepared by Aqua Callidus Consulting.
- 1.6 The Landscape Proposals Plan indicates the following landscape proposals:
- Retention of existing trees and orchard saplings;
 - Proposed Orchard tree planting as planted Standard trees, and;
 - Proposed wildflower grassed areas.

- 1.7 The tree planting works will be implemented by the client during first available planting season (1st October 2021 to 30th April 2022 or 1st October 2022 to 30th April 2023) prior to occupation of the development. The sowing of wildflower seed areas will be timed to take place when the ground conditions are not too wet or dry in the autumn (September 2022 to October 2022). Should the tree planting works be undertaken outside the October to March period then all plant stock will be container grown, planted in accordance with the planting specification and weekly watering carried out until the end of the summer period or until weather conditions change and regular rainfall is forecast.
- 1.8 The client will be responsible for the management and maintenance (and replacement) of the landscape works although some maintenance operation may be carried out by contractors appointed by the client who will oversee the work / operations involved. No fertilisers are to be used during the ongoing management / maintenance operations.
- 1.9 Any trees or other plants which fail following the completion of the development, i.e. die, are removed, uprooted, are significantly damaged, become diseased or deformed, shall be replaced during the next available planting season with other plants of a similar size, species, and quality as shown on drawing No.0395/L4 unless written consent is obtained from the Local Planning Authority to vary the landscape scheme.

2.0 GENERAL MANAGEMENT AND MAINTENANCE OPERATIONS

- 2.1 Initially, new seeding and planting will be subject to aftercare to ensure successful establishment of new habitat areas, including weeding, watering, regular pruning / mowing and replacement of any failed planting areas.
- 2.2 Once established, wildflower meadow / orchard will be subject to long-term management in accordance with the following principles:

Trees and ornamental shrubs will be pruned as required to develop healthy, bushy growth, and if necessary regular inspections of trees by a suitably qualified arboriculturalist to manage any health and safety issues;
Monitoring of the wildflower meadow shall be carried out by an appropriately qualified ecologist or landscape architect, with any necessary identified management measures implemented accordingly:

- 2.3 It is proposed that ongoing management is informed by monitoring, to include routine monitoring as part of other management activities, and reviewed on a 5-year cycle. The Management and Maintenance operations including annual grass cutting and cutting collected and removed will be carried out in perpetuity but the initial maintenance regime as set out below will be for 5 years following the implementation of the planting scheme as shown on drawing No.0395/L4. Remedial actions, such as any replacement planting, spot weed control and/or additional summer (July) cutting to control competitive species and encourage the spread of native wildflowers, or additional harrowing that may be necessary to open up the ground and additional seeding as required / necessary, particularly of yellow rattle if competitive grasses become dominant, will be carried out as identified by the monitoring regime.

- 2.4 Maintenance operations will include:

Trees works:

Check stakes and ties and adjust, if necessary, in summer and winter.
Remove stakes when no longer required, i.e., after 3 years.
Prune out damaged branches or deadwood, cutting back so as not to affect branch collar.
Progressively raise canopies of new trees to provide clearance for mowing machinery / people.
Tree works to be carried out to BS 3998 Recommendations for Tree Work, industry best practice with any works agreed with the Councils, if necessary.

Watering:

Trees to be watered on weekly basis at rate of 25 litres per tree at each operation during the growing season (April – October) for first two years. After which, during periods of dry weather apply sufficient water to maintain healthy growth.
Allow 10 litres per m² to planting beds and 25 litres per tree at each operation.

Re-firming Trees:

Ensure that all trees and shrubs are firmly bedded in the ground after strong winds, frost heave or other disturbances.

Wildflower Grass Areas:

Remove litter, twigs, and debris prior to first cut.

Grassland areas will generally be managed as wildflower meadow, subject to mowing 1-2 times a year outside of the main flowering periods with removal of arisings to encourage development of a diverse, flower-rich sward.

Protection/Reinstatement:

Regularly inspect all planting and grassed areas, e.g., once a month, for any pest damage or vandalism/damage caused by others.

Any damaged plants or grass areas to be rectified by house owner in the next available season by replacement planting or reseedling / turfing and protective measures if required.

- 2.5 The timing of the maintenance operations listed above is shown on Table 1.0 set out in section, Section 4.0.

3.0 BIODIVERSITY NET GAIN MANAGEMENT AND MONITORING

- 3.1 The creation of a wildflower meadow will favour the establishment of flowering plants of national and local ecological importance. The plan will ensure that the site is managed in the long term to maximise the biodiversity value of the site in accordance with local and national habitat creation/restoration targets. The aim is to diversify the site's habitat structure through creation of habitat features suitable for UK priority and/or notable and/or protected flora and fauna to enhance the site's biodiversity interest.
- 3.2 The creation of a species rich grassland on the improved grassland paddock will be achieved through scarifying/harrowing the ground to create a minimum of 50% bare ground. The grassland will be cut short and the cuttings removed immediately prior to scarifying the ground. A wildflower seed mix (80% / 20% UK Wildflower Seed Mixture for Chalk Soils - GSS WFM5) will be sown over the prepared ground at a rate of 3 grams per square metre. The sowing will be timed to take place when the ground conditions are not too wet or dry in the autumn (September to October).
- 3.3 In order to achieve a species rich grassland a low intensity management of the newly seeded wildflower meadow will be adopted.
- 3.4 The year after sowing the grassland will be cut regularly during the spring and late summer. Cutting will commence at the beginning of the growing season (March/April) and should seek to keep the sward height at approximately 7-10cm. Cutting will take place approximately every 2 months (or when sward reaches height of approximately 15cm) and will seek to maintain a sward height of approximately 5cm. Cuttings will be collected and removed.
- 3.5 Following establishment, one cut will take place in spring (March/April) with a second cut in late summer/early autumn (August/September). The cutting will restrict growth to a height of approximately 5cm high and cuttings will be removed. The cutting will be carried out with a handheld brush cutter, reciprocating mower or tractor-mounted flail as appropriate. Some sections of the field will be left uncut during the summer cut to provide structural diversity and flowering plants for pollinating invertebrates, for example 1 – 2 metre buffers around the boundaries of the field.
- 3.6 All cuttings will be collected and removed for composting elsewhere and off site if possible. There should be no use of fertilisers within the grassed area.
- 3.7 The grassland sward will be monitored every summer (June) in the first, third and 6th year by a suitably qualified ecologist or landscape architect to determine the species present and sward establishment. The monitoring data will guide the ongoing approach to management

to maximise species diversity and any replanting / reseeding works necessary. If remedial measures are necessary, these may include spot weed control and/or additional summer (July) cutting to control competitive species and encourage the spread of native wildflowers. Additional harrowing may be necessary to open up the ground and additional seeding may be necessary, particularly of yellow rattle if competitive grasses become dominant.

- 3.8 After the 6th year, monitoring visits will be at 5 year intervals and monitoring data used to guide the ongoing approach to management in subsequent years but the operations set out in paragraph 2.3 above will be followed in perpetuity.

4.0 MAINTENANCE TIMESCALES

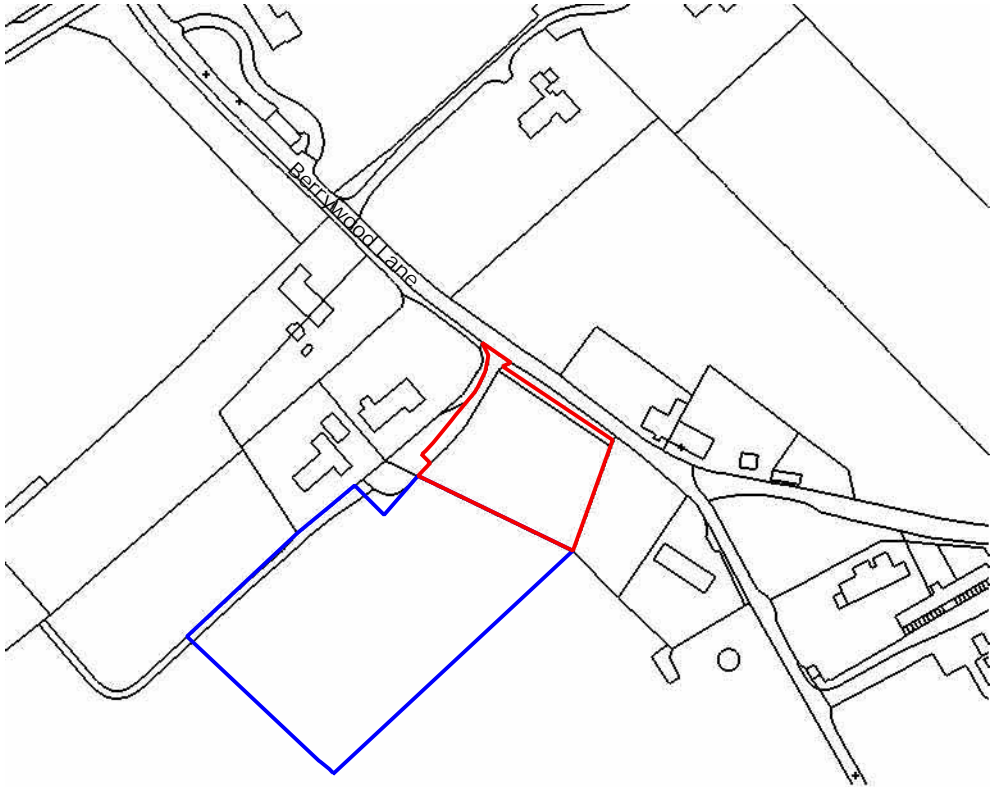
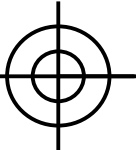
4.1 Table 1.0 below indicates the appropriate period for carrying out the operations set out in Section 2.0 and 3.0 above.

Table 1.0												
Operation	Period/Time											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Plant/Grass Inspections	•	•	•	•	•	•	•	•	•	•	•	•
Tree Works												
Prunus avium 'Plena' (Flowering Cherry)					•	•		•	•			
Juglans regia (Walnut)		•	•								•	•
Apple- Blenheim Orange	•	•									•	•
Apple- Bramley Seedling	•	•									•	•
Apple- Laxton's Superb	•	•									•	•
Apple- Norfolk Royal Russet	•	•									•	•
Apple- Scrumptious	•	•									•	•
Watering (growing season only)												
Watering (growing season only)				•	•	•	•	•	•	•		
Re-firming	•	•	•						•	•	•	•
Replanting	•	•	•							•	•	•
Wildflower Grass Meadow												
First Year Grass Cut			•	•		•		•	•			
General Annual Grass Areas – Cutting			•	•				•	•			
Grass Weed Control cutting if needed							•					
Reseeding / Overseeding				•	•			•	•			
Key												
Key	•	= Time of operation										

APPENDICES

Foxley Tagg Planning Limited – Drawing No. FTP.001.A (@A4)

Site Location Plan



Scale: 1:2500 on A4

Ref: FTP.001.A

Site: Land SW of Berrywood Lane, Bradley

APPENDICES

DWLC – Landscape Plan Drawing No.0395/L4 (at A3 size)

PLANTING NOTES

- Plant material to conform to the National Plant Specification. All plant stock to originate from within the UK. All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Codes of Practice:
 - BS 3936:1992 Part1 Nursery Stock – Specification for trees and shrubs;
 - BS 3936:1981 Part10 Nursery Stock – Specification for ground cover plants;
 - BS 4428:1989 – Code of Practice for General Landscape Operations (excluding hard surfaces);
 - BS8545:2014 – Trees from Nursery to Independence in the landscape – Recommendations; and
 - The Code of Practice 2002 (HTA).

- Topsoil to be fertile with maximum 35% clay content and 5% minimum organic content, pH 5.8 - 7.5 and to be free of perennial weeds, weed seeds and contamination. Maximum stone content 20% (20mm-I- particle size), maximum size of stones 50mm in any direction.
 - Existing topsoil to be ameliorated and/or screened, if necessary; to achieve this specification.
 - Imported topsoil to be to BS 3882: Multi - Purpose Grade, from an approved source, and to accord with the above specification.

- Cultivation of all planting areas within the root protection areas (RPA) of existing trees beneath the canopies of existing trees is to be undertaken by hand using handheld tools only, taking care to avoid ground compaction or damage to tree roots. The use of tracked or wheeled machinery (including rotovators), must not be used and any time. Levels must not be raised (particularly by the addition / spreading of topsoil associated with any turfing or grass seeding works) or lowered, in any way unless specially approved by the Local Authority.

TREES:

- All trees to be planted at correct depth in square pits 2 to 3 times width of root ball / root spread and at shallow depth same as depth of root ball / root spread with spiked bottom full depth of fork (but not cultivated) to relieve any compaction and assist drainage backfilled with local topsoil mixed with 80 litres of peat free organic tree planting compost and 125g 'Sierrablend Flora' slow release fertiliser, supported by 1 no. 100mm x 3000mm softwood timber stake and 1 No. adjustable tree tie.

- All trees are to be fitted with 'Greenleaf "Root-rain Urban" irrigation pipe and inlet, or similar approved, size as appropriate. All trees within 3m of existing or proposed footpaths or hard surfaced areas are to be planted with tree root barriers e.g. 'Greenleaf' Root 600 / 1000 placed between the tree and footpath / hard surfaced area. Root barrier to be 300mm deep adjoining hard surfaces but full depth adjoining services.

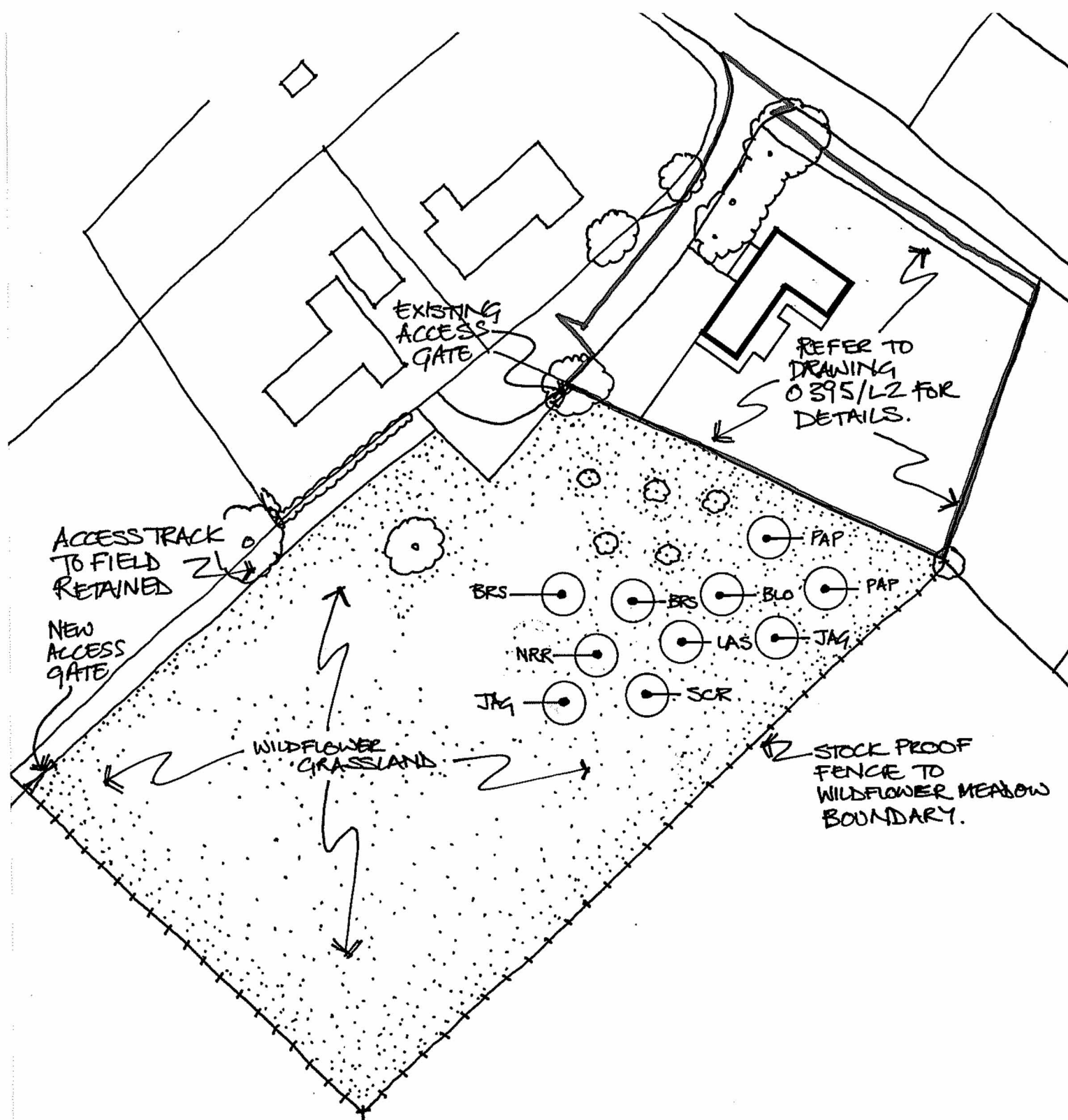
- No trees are to be planted within 3m of sewers or services (or other easement recommended by the relevant statutory undertaker) without the use of tree root barriers, e.g. 'Greenleaf' Reroot 600 /100 placed between the tree and services. The Contractor is to ascertain the location of all sewers and services prior to carrying out any tree planting.

GRASS AREAS

- Grass areas are to have a minimum depth of 150mm topsoil brought to a fine tilth all stones over 40mm in any direction removed.
 - Wildflower grass seed mix to rear garden areas to be: *GSS Chalk Soil Wildflower* seed mix sown at a rate of 3g/msq in equal sowing in transverse directions.
 - Split the total quantity of amenity grass seed to be applied into two equal amounts. Apply the first half over the entire area either by hand or by using a broadcast spreader. Gently work most of the applied seeds into the tilth with a firm rake or harrow. Apply the remaining seed in the same way and again, rake or harrow most of them into the tilth.
 - Finally, lightly tread over or roll the surface to squeeze the seeds and tilth down into the seedbed.
 - This method should ensure that the wildflower seeds are evenly spread, set at different depths and in good contact with the soil.

ONGOING GENERAL MANAGEMENT AND MAINTENANCE NOTES:

- Maintenance operations to be carried out as specified until planting becomes established (year 5 after planting) and management regime reviewed.
- Trees - Check stakes and ties and adjust if necessary, in summer and winter. Remove stakes when no longer required, i.e. after 3 years. Prune out damaged branches or deadwood, cutting back so as not to affect branch collar. Progressively raise canopies of new trees to provide clearance for vehicles and pedestrians.
- Watering – Trees to be watered on weekly basis during growing season (April – October) at rate of 25L/tree at each operation for first two years. Watering to be from above and via pipe to ensure soaking of ground. After which, during periods of dry weather apply sufficient water to maintain healthy growth. Allow 10L/m2 to planting beds and 25L/tree at each operation.
- Re - firming - Ensure that all trees are firmly bedded in the ground after strong winds, frost heave or other disturbances.
- Protection / Reinstatement - Regularly inspect all planting and grassed areas, e.g. once a month, for any pest damage or vandalism/damage caused by others. Any damage to be reported to the Employer and rectified in the next available season by replacement planting or reseeding/ turfing and protective measures if required.
- After Year 5 similar operations to continue following the Wildflower / Orchard Management Plan.



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Revision	Date	Initial

LEGEND

- EXISTING TREES RETAINED
- PROPOSED ORCHARD TREE PLANTING
- PROPOSED WILDFLOWER GRASSED AREAS
- 1.2m PROPOSED STOCK WIRE PROOF FENCING (OR SIMILAR)

PLANTING SCHEDULE

TREE PLANTING						
Ref:	Species	Girth/Size (cm)		Centres		
PAP	Prunus avium 'Plena' (Flowering Cherry)	Std	8 – 10 cm	As shown		
JAG	Juglans regia (Walnut)	Std	8 – 10cm	As shown		
Orchard Trees						
Ref:	Species	Type/ Pick Season	Pol/Group	Girth/Size (cm)		
BLO	Apple- Blenheim Orange	Dual/mid-s	D (Trip)	Std	BR 1.75m M25 RS	As shown
BRS	Apple- Bramley Seedling	Cook/late-s	D (Trip)	Std	BR 1.75m M25 RS	As shown
LAS	Apple- Laxton's Superb	Eat/mid-late-s	D	Std	BR 1.75m M25 RS	As shown
NRR	Apple- Norfolk Royal Russet	Eat/mid-s	D	Std	BR 1.75m M25 RS	As shown
SCR	Apple- Scrumptious	Eat/early-s	SF	H'Std	BR M25 RS	As shown

Note:

- Std = Standard trees
- H'Std = Half Standard trees
- SF = Self fertilizing

Project: **PROPOSED DEVELOPMENT AT BERRYWOOD LANE, BRADLEY, ALRESFORD, HAMPSHIRE SO24 9RY**

Drawing Title: **WILDFLOWER / ORCHARD PROPOSALS PLAN**

Status: **PLANNING**

Date: 24-09-2019
 Scale: 1:500 @ A2 size
 1:1000 @ A4 size
 Project No: **0395**
 Drawing No: **L4**

Drawn by: DHW
 Revision:

David Williams
Landscape Consultancy



Dyers
 East Pufford
 Holsworthy
 Devon
 EX22 7UG
 e: david.williams@dwlc.co.uk
 t: (01409) 240 278 m: (07826) 270 368
 www.dwlc.co.uk

