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- Drawing scaled & issued for planning purposes only.
- All dimensions for construction shall be verified by the Contractor (s) on site before any work is commenced or materials ordered.
- Any discrepancies to be brought to the attention of the Contract Administrator for instruction prior to proceeding.

Scale 1:250 @A0

## KEY

- Existing trees/hedge to be retained
  Subject to Cheshire Woodlands arboricultural report
- Proposed fruit tree
  Half Standard tree, min 150cm high
- Proposed tree - Coniferous
  14-16cm girth, 400-500cm high, 2m clear stem, planted in min 900mm deep imported topsoil with underground anchor system
  Refer to SLD dwg 407-91
- Proposed tree - Coniferous
  300-400cm high, 2m clear stem, planted in min 900mm deep imported topsoil with underground anchor system
  Refer to SLD dwg 407-91
- Proposed tree - Deciduous
  Heavy Standard Tree, 12-14cm girth, 350-425cm high, 2m clear stem, planted in min 900mm deep imported topsoil with underground anchor system
  Refer to SLD dwg 407-91
- Proposed tree - Deciduous
  Heavy Standard Tree, 12-14cm girth, 350-425cm high, 2m clear stem, planted in min 900mm deep imported topsoil with underground anchor system set in ornamental gravel/metal tree ring Refer to SLD dwg 407-90
- Proposed tree - Deciduous
  Standard Tree, 10-12cm girth, 300-350cm high, 2m clear stem,planted in min 900mm deep imported topsoil with underground anchor system
  Refer to SLD dwg 407-91
- Hedge
  2.0m high hedge planted @ 1-3 per lm m, planted in min 600mm deep imported topsoil, with 75mm ornamental bark mulch dressing
  Native evergreen species Refer to SLD dwg 407-93
- Native hedge mix
  Whips/ transplants/ container grown plants planted in double staggered rows (rows 500mm apart), 6 per lin. m with suitable spiral guards
- Ornamental shrub planting
  A mix of evergreen/deciduous/ grasses/ perennials & shrubs to provide habitat for birds and insects and for striking year round display Plants supplied in 3-5L pots planted @ 3-6 /m2 in 450mm imported topsoil with 50mm ornamental bark mulch dressing
- Wildflower meadow
  Emorsgate Seeds EM3F Special General Purpose Wild Flowers sown at 1.5g/m2 NBS Clause Q30 312
  EMXF Standard General Purpose Wild Flower sown at 1.5g/m2 NBS Clause Q30 312A
- Grass
  Emorsgate Seeds EM10 Tussock Meadow Mixture sown at 4g/m2 NBS Clause Q30-311
  Areas within tree planting sown in 1000mm deep imported topsoil
  Grassed areas sown on 100mm deep imported Low Fertility Soil
- Grass
  Amenity turf/ grass seed OR Low tussock grass mix on minimum 150mm imported topsoil
  Emorsgate EG22 Strong Lawn grass mixture sown at 25g/m2 NBS Clause Q30 310
- Earthworks
  To be constructed with existing excavated soils
  Tree planting/ hedge areas : 500-1000mm deep imported topsoil capping layer
  Wildflower areas : 100mm deep imported recycled aggregate/ sand laid over imported Meadowmat Low Fertility Soil
- Root Barrier
  GreenBlue Urban ReRoot 1000 ribbed root barrier installed with ribs facing tree, no growing medium over top of barrier
  Refer to SLD dwg 407-92
  NBS Clause Q31 510

## PLANTING NOTES

1. Plant handling at the nursery, & transit up to delivery, shall be in accordance with 'Plant Handling', the booklet published by the Committee for the Plant Supply & Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association 19 High Street, Theale, Berks RG7 5HI) which refers to the receipt, unloading & temporary storage of plants.
2. Plants shall be first class examples of their species or variety, free from all pests & diseases, with good fibrous root systems & materially undamaged (refer to relevant section of BS3936 Parts 1-4 Specification of Nursery Stock).
3. All planting is to be in general compliance with BS4428:1989 'Code of Practice for general landscape operations (excluding hard surfaces)'.
4. All plants and fauna shall be planted in the recommended season.
5. Where necessary levelling shall be carried out by hand to eliminate ponding hollows. Finished topsoil level shall be 25mm above adjoining paved areas and 150mm below damp proof courses level to the adjacent building.
6. Areas of large roots to be grubbed up without undue disturbance of surrounding soil & adjacent areas. Rubbish, concrete, metal, glass, hard surfacing, hardcore, decayed vegetation, weed growth & any contaminated topsoil are to be removed & disposed off-site prior to planting.
7. Shrub beds to have a min. depth of 450mm good quality imported topsoil (BS3882), do not use topsoil contaminated with subsoil, rubbish or other materials. Do not compact soil, preserve a friable texture of separate visible crumbs where ever possible. Topsoil to be treated with an application of herbicide prior to planting, where necessary, strictly in accordance with the Control of Pesticides Regulations 1986 (or otherwise updated/ superceded legislation), & following manufacturer's instructions by qualified staff & then should be cultivated to 150mm depth prior to planting. Where existing beds are to be cleared & recultivated, incorporate new spent compost 20% & topsoil 80% into all tree, shrub & hedge areas. All shrub beds/ grasses areas shall have a suitable slow release fertilizer applied at the manufactures specified rates.
8. Shrub Compost. Specimen plants to be planted in a pit 400 x 400 x250mm depth with 5 litres Tree & Shrub Compost.
9. All areas of ornamental planting are to be mulched to a depth of 50mm with an amenity grade bark mulch unless plants are located in gravel.
10. Formal Hedges:Trench to be dug min 600mm wide x 600mm deep (base broken out to facilitate drainage) and a peat free compost or slow release fertiliser incorporated into the back fill material.
11. Native shrub/tree planting. Whole area to be treated with a non-residual glyphosate based herbicide prior to planting. All BR stock to be notch planted into the ground & healed into place. All BR, whips & BR stock (woodland mix & hedge) to be protected with a spiral bound biodegradable guard secured in place with a cane. All trees to have mulch mat around base.
12. All turf & grass seed mixes are to be supplied by an approved supplier. All turves are to be laid horizontally to adjacent hard surfaces in a staggered pattern to encourage establishment. All grassed areas are to be watered as necessary to ensure their establishment & continued thriving. New grassed areas to have a min. depth of 150mm good quality imported topsoil (BS3882) & to be treated as item 5, marry new soils into existing where necessary. Carry out all work when soil & weather are suitable:

    -Do not sow or turf during periods of frost or strong winds
    -Sow only in Spring & Autumn
    -Ensure that adequate watering & weed control is available.

13. Wildflower seeding. To be sown in recycled aggregate/ sand growing medium, prepare ground and spray with a non-residual glyphosate based herbicide in line with manufacturers recommendations. Rake or harrow & roll to produce a medium tilth, fairly fine, firm surface. Sow seeds in autumn/ spring subject to project timescales. Spread seed by machine or hand, @ 1.5 or 4g/m2 depending on mix. Do not cover seed but firm in with roller or by treading.
14. Trees are to be planted securely either underground guyed in accordance with an approved guying system or staked & secured as follows:

    -Heavy Standard are to be secured using 2no. treated softwood stakes with cross bar, driven firmly into the ground. Stakes to be 1000mm above ground & fixed to tree with suitable rubber tree tie & spacer
    -Standard are to be secured using a single stake driven firmly into ground (0.6m above ground level) & secured with a rubber tie & spacer
    -Multi-stem trees are to be secured using a single angled stake driven firmly into ground & secured with a rubber tie & spacer.

15. For all ornamental trees one 80litre bag of tree planting compost (non-peat based) is to be incorporated in the tree pits. For all ornamental trees the tree pit should be large enough to comfortably accommodate the rootball. Backfilling with excavated soils to replicate the existing horizons. All trees are to be planted in line with BS8545:2014 Trees:from nursery to independence in the landscape - Recommendations: Para 10.2.7 Topsoil should not be used below depth of the original topsoil .
16. Trees planted in grass are to have a 1m dia turf cut around the base of the tree & circle filled with 50mm depth bark mulch.
17. The landscaping shown on this drawing shall be fully implemented in the first available planting season (No-March) following completion of the approved development. Consideration to be taken into account & planned for within the construction programme. Where the works programme does not provide for tree and shrub planting to be carried out in the appropriate season either of the following operations shall be implemented:

    (a) Planting shall be completed during the first planting season following Practical Completion. The cost of carrying out such landscape works after Practical Completion shall be at the expense of the Contractor. Ensure adequate watering & weed control is available.

    (b) Carry out all work when soil & weather conditions are suitable.Do not plant during periods of frost or strong winds. Plant only in the following periods; - Container grown plants. At anytime if ground water & weather conditions are favourable- Rootballed & bare root trees & shrubs:November-March. Ensure adequate watering & weed control is available.

18. Water all plants & trees on the same day of planting, plant only into moist soil & water thoroughly to the full depth of soil immediately after planting. Water regularly through the establishment period (minimum 3 months) to prevent dehydration (min. once a week in periods of drought) to ensure the establishment of the plants during the 12month defects period.
19. The contractor must ascertain for himself/herself the exact position of underground services & maintenance points prior to carrying out any digging on site.

## PLANTING AFTERCARE - 5 year establishment period

**Generally**

- Maintain all grass areas, shrub beds and hedgerow planting free of litter and excessive weed growth (ie. growth that would be detrimental to the intended planting). Do not allow rubbish, grass cuttings, or other deleterious materials to be deposited on any of the planted areas during the establishment period.
- Water all trees, shrubs & hedges in periods of drought (no significant rainfall for 5-7days) during the growing season of the 12months defect liability period. (Growing season is typically late Spring to early Autumn). Water once a week so the soil is fully saturated to encourage deep roots to establish & continue this until significant rainfall.
- Any plants which are stolen from the site prior to Practical Completion shall be replaced by the Contractor.
- Any plants which die or show signs of poor health should be replaced towards the end of the 12month defects liability period by the contractor.(Exclusions: Theft or malicious damage after completion). The Employer shall determine whether a plant has failed. The cause of death or poor health should be investigated & the issue re-mediated prior to any new planting. If necessary plant species can be substituted (with prior agreement with the Landscape Architect) if particular plants are not suitable for the situation due to un-forseen circumstances.
- At the end of the first 12 month maintenance period ensure soil is thoroughly moistened prior to re-mulching, applying water where necessary, re-mulch all planting beds to a depth of 50mm.
- After the 12month defects liability period the plants within private ownership (front & back gardens) will be the responsibility of the individual home owner, maintenance of all public areas will be passed onto the management company or the local authority which will need to replace any trees or shrubs that die within a 5 year period in line with the original proposals.

**Grass**

Maintenance of grassed areas shall include mowing, watering as necessary to saturate soil below, trimming edges to pavings & planted areas at every cut, removing all debris & stones over 30mm in size, prior to mowing, weeding by cultivating, forking hoeing & raking & re-seeding any portions considered necessary & removing from site all debris & stones created by the operations. Pavements to be swept clean of any grass cuttings. Strimming round base of all trees will be carried out with a strimmer fitted with a protective guard to prevent bark damage.
Grass to be cut fortnightly throughout growing season to height between 25-30mm & remove clipping to tip ( April to October)
Any areas of grass where bulbs are planted must not be mown until leaves turn yellow or show signs of die-back.
Spike and scarify periodically to promote free drainage and remove moss and thatch.
In drought conditions the following modifications to specified mowing operations shall be implemented:
Cutting heights shall be raised to 45mm, mowing shall only continue so long as grass growth continues to reach maximum advisable height.

**Native hedge mix**

Maintenance operations:
Years 1-3
Water throughout the summer months after any period without significant rainfall.
Treat Shrub/Edge Mix area with residual herbicide applied to bare ground at the end of the second years growth.
Ensure plants are secure and upright in the ground. Firm up where necessary.
Spot treat any weeds to maintain weed free.
Prune out any dead wood.
Replace dead/missing plants.
Re-firm plants where necessary.

**Wildflower Mix**

First Year Management:
Do not cut any annual weeds until mid to late summer. Then cut, remove and compost in early August. The meadow can then be kept short by mowing through to the end of March of the following year. Dig out any residual perennial weeds such as docks.

Management Once Established:
In the second and subsequent years sowings can be managed in a number of ways which, in association with soil fertility, will determine the character of the grassland. The best results are usually obtained by traditional meadow management based around a main summer hay cut in combination with autumn and possibly spring mowing or grazing.
Meadow grassland is not cut from spring through to late July/August to give the sown species an opportunity to flower. After flowering in July or August take a 'hay cut': cut back with a scythe, petrol strimmer or tractor mower to approx 50mm. Leave the 'hay' to dry and shed seed for 1-7 days then remove from site.
Mow the re-growth through to late autumn/winter to approx 50mm and again in spring if needed.

**Shrub Beds**

APPLY TO ALL AREAS
Maintain weed free
Replace dead/dying plants
Water in periods of drought 10 litres per shrub per week.
Remove deadwood.
At the end of year 5, thin shrub beds to allow adjacent plants to achieve their species potential.

**Herbaceous Beds**

Maintain weed free
Replace dead/dying plants
Water in periods of drought a minimum of 2 times a week.
Every 2-4 years (species dependant) divide plants.

**Hedging**

The aim is to establish a stable and healthy hedgerow within 3 years from planting with a well shaped framework.
Maintenance operations:
Maintained base of plants weed free; spot treat as necessary.
Replace dead and missing plants or those which fail to establish properly.
Water throughout the summer months after any period without significant rainfall.
Ensure plants are secure and upright in the ground. Firm up where necessary.
After the second growing season, formative prune the hedgerow on an annual basis to remove any dead, diseased or damaged shoots and create a balanced form for future growth.

**Trees**

Inspect trees and ensure that they are establishing in an upright & safe manner, gently firm loosened soil around trees, straighten leaning trees accordingly.
Stakes and ties; check annually that the stakes are secure and adjust ties to allow for growth as necessary. Remove stakes at the end of the third growing season.
Trees should be watered once a month regardless of weather conditions during the defects liability period in the growing season (through the irrigation pipe) to ensure that the trees are encouraged to produce deep roots.Water trees in periods of drought at a the following rates:
150 litres per tree - 14-16cm girth trees & above
75 litres per tree - 10-12cm girth trees & below

Prune deadwood, crossing branches etc. Replace deaddlying trees
Routine pruning should include the following operations:
The removal of dead, diseased, damaged or dying branches only where they pose a risk to the users of the site.
The removal of branches or epicormic growth around the trunk of the tree where it is restricting access, growing over footpaths or obstructing lighting to be cut back.
Inspection and reporting any incidence of pests and diseases which could cause trees or limbs to fail.
Any routine tree works should be carried out between end August to the end February to avoid the bird nesting season. If this is unavoidable a bird nest and/ or bat survey must be undertaken prior to works being carried out.

**Existing Trees**

The existing trees around the development should be inspected annually by a suitably qualified arboricultural consultant to ensure that they are in good health and are not hazardous to the users of the site. Any tree works should be carried out by suitably qualified arboriculturists to the best arboricultural standards, considering all safety implications (especially working near roads, on embankment and or near a water courses) and working in accordance with BS 3998 (2010). Carry out a health and safety inspection on all the trees on and around the site on an annual basis and after any severe high winds to ensure that the trees are maintained in a safe condition and will not pose a risk to the users of the site. Any works required to reduce these risk should be carried out at the earliest opportunity.
Routine pruning should include the following operations:
The removal of dead, diseased, damaged or dying branches only where they pose a risk to the users of the site. Trees within woodland areas away from houses or areas not intended to be used by the general public should be left as dead and decaying wood are all part of a health natural woodland ecosystem.
The removal of branches or epicormic growth around the trunk of the tree where it is restricting access, growing over footpaths or obstructing lighting to be cut back.
Inspection and reporting any incidence of pests and diseases which could cause trees or limbs to fail.
Any works to existing trees must maintain the natural shape of the tree, after any tree works the trees should not appear to be topped or lopped.
If trees are to be felled this operation should be done in a safe manner complying with all current regulations including BS 3998. Where gaps have been created plant a replacement tree of native origin as agreed with the local authority.
Any routine tree works should be carried out between end August to the end February to avoid the bird nesting season. If this is unavoidable a bird nest and/ or bat survey must be undertaken prior to works being carried out.

## PLANTING SCHEDULE

**Shrubs**

| Nr | Code | Name | Height /Spread (cm) | Container | Habit | Density |
|---|---|---|---|---|---|---|
| 4 | CAB | Ceanothus 'Autumnal Blue' | 80-100 | 10L | Branched | |
| 7 | OH | Osania x fragrans | 30-40 | 5L | Bushy | 3 per m2 |
| 5 | SKG | Skimmia 'Kew Green' | 30-40 | 5L | Bushy | 3 per m2 |

**Herbaceous**

| Nr | Code | Name | Height (cm) | Container | Habit | Density |
|---|---|---|---|---|---|---|
| 7 | AcA | Ajuga reptens 'Alba' | | 5L | | 5 per m2 |
| 9 | AsM | Aster x frikartii 'Monch' | | 5L | | 5 per m2 |
| 20 | BJF | Brunnera macrophylla 'Jack Frost' | | 5L | | 5 per m2 |
| 20 | Cap | Carex plantaginea | | 5L | | 5 per m2 |
| 5 | CHG | Caryopteris 'Hint of gold' | | 5L | | 5 per m2 |
| 7 | ESC | Echinacea 'Summer Cocktail' | | 5L | | 5 per m2 |
| 5 | HMB | Helenium 'Moerheim Beauty' | | 5L | | 5 per m2 |
| 5 | MSK | Miscanthus sinensis 'Kleine Silberspinne' | | 7.5L | | |
| 5 | PeH | Pennisetum alopecuroides 'Hamelin' | | 5L | | 5 per m2 |
| 5 | PBS | Perovskia 'Blue Spire' | | 5L | | 5 per m2 |
| 30 | PoA | Polystichum aculeatum | | 5L | | 5 per m2 |
| 20 | PoP | Polystichum polyblepharum | | 5L | | 5 per m2 |
| 5 | SeS | Sedum 'Stardust' | | 5L | | 5 per m2 |
| 26 | TSS | Tiarella 'Spring Symphony' | | 5L | | 5 per m2 |

**Hedge**

| Nr | Code | Name | Height (cm) | Container | Habit | Density |
|---|---|---|---|---|---|---|
| 367 | LxH | Ligustrum vulagare | 200/225 | RB | Branched | 2 per lm m |

**Native Hedge Mix** - Planted in double staggered rows 7 per lm m

| Nr | Code | Name | Height (cm) | Root | Age | Mix % |
|---|---|---|---|---|---|---|
| 246 | Cm | Crataegus monogyna | 40-60 | BR | 1+0 | 40 |
| 185 | Ca | Corylus avellana | 40-60 | BR | 1+1 | 30 |
| 61 | Iq | Ilex aquifolium | 60-90 | 2L | | 10 |
| 61 | Pra | Prunus spinosa | 60-90 | BR | 1+1 | 10 |
| 61 | Vo | Viburnum opulus | 60-90 | BR | 1+1 | 10 |

**Trees**

| Nr | Code | Name | Height (cm) | Girth | Root / Container | Form |
|---|---|---|---|---|---|---|
| 3 | Acam | Acer campestre | 300-350 | 10-12cm | RB | Selected Std |
| 9 | Ac | Acer campestre | 350-425 | 12-14cm | RB | Heavy Std |
| 1 | Ah | Aesculus hippocastanum | 300-350 | 10-12cm | RB | Selected Std |
| 4 | Aln | Alnus glutinosa | 300-350 | 10-12cm | RB | Selected Std |
| 7 | Ag | Alnus glutinosa | 350-425 | 12-14cm | RB | Heavy Std |
| 6 | Bep | Betula pendula | 300-350 | 10-12cm | RB | Selected Std |
| 18 | Bp | Betula pendula | 350-425 | 12-14cm | RB | Heavy Std |
| 4 | Car | Carpinus betulus | 300-350 | 10-12cm | RB | Selected Std |
| 1 | Cb | Carpinus betulus | 350-425 | 12-14cm | RB | Heavy Std |
| 4 | Cra | Crataegus laevigata 'Pauls Scarlet' | 300-350 | 10-12cm | RB | Selected Std |
| 3 | CPS | Crataegus laevigata 'Pauls Scarlet' | 350-425 | 12-14cm | RB | Heavy Std |
| 7 | Pin | Pinus nigra | 300-400 | 12-14cm | RB | Heavy Std |
| 22 | Pn | Pinus nigra | 400-500 | 14-16cm | RB | Extra Heavy Std |
| 8 | Psy | Pinus sylvestris | 300-400 | 12-14cm | RB | Heavy Std |
| 27 | Ps | Pinus sylvestris | 400-500 | 14-16cm | RB | Extra Heavy Std |
| 8 | PoN | Populus nigra | 400-500 | 14-16cm | RB | Extra Heavy Std |
| 5 | Pp | Prunus padus | 300-350 | 10-12cm | RB | Selected Std |
| 12 | Pr | Prunus padus | 350-425 | 12-14cm | RB | Heavy Std |
| 2 | Qu | Quercus robur | 300-350 | 10-12cm | RB | Selected Std |
| 1 | Qro | Quercus robur | 350-425 | 12-14cm | RB | Heavy Std |
| 6 | Sor | Sorbus aucuparia | 300-350 | 10-12cm | RB | Selected Std |
| 4 | Sau | Sorbus aucuparia | 350-425 | 12-14cm | RB | Heavy Std |
| 1 | Stm | Sorbus torminalis | 300-350 | 10-12cm | RB | Selected Std |
| 3 | SoT | Sorbus torminalis | 350-425 | 12-14cm | RB | Heavy Std |

**Wildflower Mix A 117m2** - EM3 Special General Purpose Meadow Mixture as supplied by Emorsgate Seeds sown at 4g/m2

**Wildflower Mix B 468m2** - EMZ Standard General Purpose Meadow Mixture as supplied by Emorsgate Seeds sown at 4g/m2

**Wildflower Mix C 3473.5m2** - EM10 Tussock Meadow Mixture as supplied by Emorsgate Seeds sown at 4g/m2

**Fruit Trees**

| Nr | Code | Name | Height min (cm) | Girth | Root / Container | Form |
|---|---|---|---|---|---|---|
| 3 | CMP | Cydonia oblonga 'Meeches Prolific' | 150 | | Quince A | Half std |
| 2 | MBO | Malus domestica 'Blenheim Orange' | 150 | | MM111 | Half std |
| 2 | MCP | Malus domestica 'Claygate Pearmain' | 150 | | MM111 | Half std |
| 2 | MLD | Malus domestica 'Lord Derby' | 150 | | MM111 | Half std |
| 2 | PrS | Prunus avium 'Sunburst' | 150 | | Colt | Half std |
| 1 | PREP | Prunus domestica 'Rivers Early Prolific' | 150 | | Tonnel | Half std |
| 1 | PrV | Prunus domestica 'Victoria' | 150 | | Tonnel | Half std |
| 2 | PC | Pyrus communis 'Concordia' | 150 | | Quince A | Half std |
| 3 | PyC | Pyrus communis 'Conference' | 150 | | Quince A | Half std |

SUPPLIER DETAILS

GreenBlue Urban Ltd
Northpoint
Compass Park
Junction Road
Bodiam TN32 5BS

T: 01580 830 800
E: enquiries@greenblueurban.com
W: www.greenblue.com

| Rev | Description | Initial | Date |
|---|---|---|---|
| G | Amended to latest site plan, fruit trees added to spec | KAS | Nov24 |
| F | DWG status updated | KAS | Oct24 |
| E | Updated to latest site plan | KAS | Oct24 |
| D | NBS clause, native hedge planting & maintenance notes added | KAS | Apr24 |


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**CLIENT**
MCFC

**PROJECT TITLE**
Women's First Team

**DRAWING TITLE**
Detailed Planting Proposals

**STATUS**
**STAGE 4**

| SCALE | SHEET SIZE | DRAWN | CHECKED | DATE |
|---|---|---|---|---|
| 1:250 | A0 | KAS | | Oct24 |

| PROJECT NO. | DRAWING NO. | REV. |
|---|---|---|
| 407 | 75 | C |