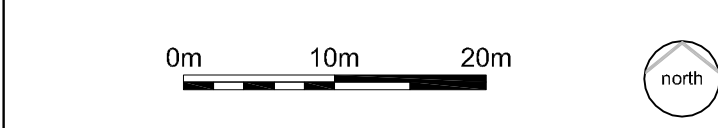




- KEY**
- Existing site features**
- Existing trees to be retained
 - Existing trees / vegetation to be removed
 - Existing vegetation to be retained
- Hard Landscape Proposals**
- Bitmac - vehicular
 - Bitmac - pedestrian
 - Residential parking bays & driveways - block paving
 - On street parking bays - block paving
 - Permeable block paving - parking courts & bays
 - Granite rumble strip
 - Junction - block paving
 - Raised table - block paving
 - No-dig porous paving to footpath
- Soft Landscape Proposals**
- Specimen trees
 - Ornamental planting
 - Mown grass
 - Clipped hedge
 - Native buffer planting - mix of native shrubs and trees
 - Rear gardens
 - Existing pond restored with new liner as per ecologist's recommendations
 - Swale with wildflower meadow mix (Emorsgate EM4)
 - Wildflower meadow Emorsgate EM4 mix
 - Existing planting managed & improved
 - Proposed native shrub planting
 - Proposed native bulb planting, including daffodils, bluebell, winter aconites and fritillaries
 - Proposed marginal and aquatic planting, including purple loosestrife, water forget-me-not, meadowweet and broadleaved pondweed



MASTERPLAN

SPECIFICATION NOTES

- General.**
This plan is to be read in conjunction with the following documents:
 - Arbicultural report by B. Harwood
 - Ecology report by The Ecology Group
- General landscaping.**
 - Existing levels to be preserved around retained existing trees and vegetation. Existing trees and vegetation to be retained are to be protected in accordance with BS5837:2012 during construction.
 - All landscape works to be undertaken by competent persons, with appropriate training and equipment.
 - All attempts to be made from site at contractor's expense unless noted otherwise. (e.g. woodland, gravel, topsoil, border sleepers).
- Services.**
The contractor must ascertain for himself/herself the exact location of underground services before commencing work.
- Soil Materials Generally.**
 - Purity: Soils shall be free from roots, stones, rhizomes, propagules of perennial or invasive weeds (such as grass, knotweed, docks, Japanese knotweed), glint, heaved and horizontal material (Esquatum averse).
 - Foreign matter: On visual inspection, free from non-soil material, birds and other building materials and wastes, sharp, and any other foreign matter or material or substance that would render the soil or soil amendment unsuitable for use.
 - Contamination: Do not use topsoil, subsoil, sand or compost contaminated with rubbish or other materials that are:
 - Corrosive, explosive or flammable;
 - Hazardous to human or animal life;
 - Detrimental to healthy plant growth.
 - Glue notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil, subsoil, sand or compost or other planting media to be used.
- Soil testing**
Each soil source (imported and subsoil and topsoil - see items 6.8 and 6.9 below) shall be analysed by Tm Chase Associates, Tel: 01491 820253. Email: info@tca.co.uk, www.tca.co.uk (or equivalent approved), and recommendations made for appropriate amendment.
- Subsoil for general planting areas (sample of subsoil and/or imported subsoil to be sent for testing to check compliance with parameters below)**
Provide subsoil as necessary to make up deficiency on site. Natural or manufactured subsoil (from approved source) will be acceptable (with parameters given below). Subsoil to be tested to determine suitability for proposed use. Test report to be submitted for approval and to enable amendment recommendations. Subsoil should be free from commonly based contaminants, including asbestos. Subsoil parameters to be within the following:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	35
SB (0.002-0.05mm)	%	0	35
Sand (0.05-2.0mm)	%	0	35
Of which at least 40% shall fall into fine to medium sand range	%	50	90
Stones (>50mm)	N/DW	0	0
Stones (>100mm)	N/DW	0	0
pH Value	Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	2800	2800
Exchangeable Sodium Percentage	%	15	15
Organic Matter	%	1.5	1.5
- Subsoil for tree pits (sample of subsoil and/or imported subsoil to be sent for testing to check compliance with parameters below)**
Provide subsoil as necessary to make up deficiency on site. Natural or manufactured subsoil (from approved source) will be acceptable (with parameters given below). Subsoil to be tested to determine suitability for proposed use. Test report to be submitted for approval and to enable amendment recommendations. Subsoil should be free from commonly based contaminants, including asbestos. Subsoil parameters to be within the following:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	18
SB (0.002-0.05mm)	%	0	25
Sand (0.05-2.0mm)	%	0	25
Of which at least 40% shall fall into fine to medium sand range	%	60	90
Stones (>50mm)	N/DW	0	0
Stones (>100mm)	N/DW	0	0
pH Value	Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	2800	2800
Exchangeable Sodium Percentage	%	15	15
Organic Matter	%	1.5	1.5

- Topsoil for general landscaping (sample of subsoil and/or imported topsoil to be sent for testing to check compliance with parameters below and to inform any necessary amendment - see 6.9 below)**
Existing topsoil to be tested and re-used, provided soil is within parameters given below when analysed. Imported topsoil to be good quality sandy loam or manufactured topsoil (from approved source, meeting parameters given below). Topsoil (subsoil or imported) to be tested to determine suitability for proposed use and should be free from commonly based contaminants, including asbestos. Test report to be submitted to Landscape Architect for approval and to enable amendment recommendations to be made:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	18
SB (0.002-0.05mm)	%	0	35
Sand (0.05-2.0mm)	%	0	35
Of which at least 40% shall fall into fine to medium sand range	%	50	85
Stones (>20mm)	N/DW	0	20
Stones (>50mm)	N/DW	0	15
Stones (>100mm)	N/DW	0	0
pH Value	Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	2800	2800
Exchangeable Sodium Percentage	%	15	15
Organic Matter	%	4.0	8.0
Total Nitrogen	%	0.15	2.0
Carbon: Nitrogen Ratio		20	20
Extractable Phosphorus	mg/l	25	100
Extractable Potassium	mg/l	240	1200
Extractable Magnesium	mg/l	50	600
- Amendment: fertiliser and compost (contractor is responsible for submitting a sample of imported or subsoil topsoil to inform requirements).**
Topsoil amendment to be determined by analysis. Once amendment requirements ascertained as required, approved (past tree) composts to PAS100 and/or fertilisers to be incorporated during cultivation at required rate to full depth of growing medium.
- Soil handling and depths.**
 - Topsoil and subsoil to be handled (i.e. excavated and/or imported stored, spread, cultivated) in accordance with method agreed in writing by Landscape Architect prior to work commencing. All topsoil and subsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating amendments as required. If compaction is suspected in subsoil, subsoil or topsoil surfaces, these shall be ripped as necessary to decompact and ensure adequate drainage.
 - Hand cultivation shall be carried out to achieve the required finish or areas where machine cultivation is impossible. In adjacent to kerbs, manholes and footpath junctions, around retained trees etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Topsoil and subsoil to be stored in heaps, maximum 2m in height, providing soil is reasonably dry and stable during stripping and handling - using a tracked excavator. To protect from wet weather once first height is achieved, an excavator should separate the sides and top of stockpile to firm surface by tracking across it to form a smooth gradient.
 - Final topsoil depth (allowing for settlement) to be 300mm for tree pits and general planting areas and 150mm for grass. Finished soil levels to be 25mm above/below adjoining paving or kerbs, not less than 150mm below top of adjoining buildings; shrub areas to be higher than adjoining grass areas by 25 mm.
- Plant handling and establishment.**
Plant handling shall be in accordance with 'Handling and establishing landscape plants' published by the CPSE through the JCL (http://www.jcl.co.uk/alongplanning/establishment/). The contractor shall comply with Part 3 Recommendations for plant handling from delivery to site to ensure successful establishment.
- General planting notes.**
Details for time, hedge and general planting to be finalised once first site conditions are known (a completion and permeability of ground). General plant stock to conform to BS 3968, advanced nursery stock to BS 3456, and planting to BS 4429. Plants shall be first class examples of their species or variety, free from all pests and diseases, with good robust root systems and naturally undamaged. All planting operations to be in general compliance with BS4429 'Code of Practice for general landscape operations'. Only carry out all planting while soil and weather conditions are suitable.
 - Do not plant during periods of frost or strong winds. Plant only during the following periods:
 - Deciduous and conifer trees: Late October to late March (rootball and bare root)
 - Coniferous grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering is provided.
 - Shrub: September/October
 - Setting out of planting beds to be approved by Landscape Architect before work commences. Ensure that plant beds are neatly defined, and rise from adjacent paved areas as specified above. All live pits, tree circles in lawn and planting beds are to be mulched with approved bark mulch to 50mm depth after planting.
- Tree planting**
Any proposed substitutions of species shown on plan to be approved by landscape architect prior to planting. Details for tree planting to comply with BS3845. As a guide all trees to be planted in square pits with loose undisturbed unless drainage / compaction problems known. Plant at a depth where the root flare is clearly visible at the soil surface. Where trees have been supplied with the root flare too deep excess soil or fibrous root growth should be removed before planting. All trees to have 'Hidax' tree implementation system installed as supplied by Flatpac 01737 782000 www.flatpac-and-hidax.com or approved equivalent. Water in heavily after planting and mulch surface, ensuring mulch is not in contact with trunk of tree. Tree support to comply with BS 8545. Bare root trees to have a single upright stake, RB or CG trees to have double stakes and bridle with adjustable tie, install dormant trees on trees on slopes to have angled single stake with adjustable tie, in windy locations or for large trees, install wind guying, tree stakes to be stained black. Trees to be underplanted gravel shall have subsurface guying system installed as supplied by Flatpac 01737 782000 www.flatpac-and-hidax.com or approved equivalent. Any necessary remedial tree works are to be carried out by an approved tree surgeon to BS 3998. Trees planted within grass areas to be set in matched earth circles, 1m diameter around tree trunk, with turf trimmed neatly to the ground level.
 - Trees up to 20cm girth.**
Depth of tree pit to be the same as the rootball and with overall width to be 150mm wider than the diameter of the rootball (70mm min. from rootball edge to tree pit side) (Pit to be backfilled with 300mm depth of specified topsoil over subsoil as per spec).
- Hedges.**
Depth of planting trench to be same as rootball, overall width 150mm wider than rootball (70mm min. from rootball edge to sides of trench). Trench to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Central post and wire supporting to be provided with two line wires and plants to be tied in using horticultural plastic ties. On planting, hedges to be trimmed to neat shape where necessary.
- Native hedges.**
Species to be randomly mixed for natural effect, and planted in groups of 3-5 plants of any one species. Depth of planting trench to be same as root system, overall width space 150mm wider than root system (70mm min. from root system edge to sides of trench). Trench to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Provide and install each plant with an appropriate sized recyclable slatted green shrub shelter (available from Tubex Ltd, phone 01621 274201 or similar approved). Position shelter stake on windward side of plant, drive vertically into bottom of pit before planting, to a min. depth of 300mm and consolidate backfill material around stake, attach shelter to stake with a minimum of two ties.
- Native tree and shrub etc.**
All plants to be planted in cultivated planting beds with species randomly mixed for natural effect, and planted in groups of 3-5 plants of any one species. Plants to be rooted or pH balanced. Plant or pit or spacing given in schedule. Provide and install each plant with an appropriate sized recyclable slatted green shrub shelter (available from Tubex Ltd, phone 01621 274201 or similar approved). Position shelter stake on windward side of plant, drive vertically into bottom of pit before planting, to a min. depth of 300mm and consolidate backfill material around stake, attach shelter to stake with a minimum of two ties.
- Specimen Shrubs.**
Depth of planting pit to be same as rootball, overall width space 100mm wider than rootball (50mm min. from rootball edge to sides of pit). Pit to be backfilled with 300mm depth of specified topsoil over subsoil as per spec.
- Shrub and Ground Cover Planting.**
All plants to be planted into cultivated planting beds (with 300mm depth specified topsoil) at densities shown in plant schedule, backfilled with same topsoil.
- Bulb plantings.**
All bulbs to be planted at the rate given in the schedule, in random mixed drifts of single species in areas indicated on the plan, minimum 10 bulbs per drift of single species. For planting, cultivate bulb positions by dropping bulbs from waist height. Neatly remove a plug of turf and replace after planting. Plant so that the top of the bulb is at a depth of approximately twice its height with base in contact with bottom of hole. Bulbs should be no closer together than approximately twice the width of a single bulb.
- Grass.**
Turfing and seeding shall be carried out only during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. Only machinery and tools shall be used around trees, plants and in confined spaces where it is impossible to use machinery. The soil shall be weed free prior to turfing and seeding. Contact herbicide as specified should be applied to all areas of weed growth 4-6 weeks before grassing and repeated if necessary to maintain a weed free bed. Where deep rooted weeds are present (dock, ribwort etc) approved Glyphosate based herbicide should be applied as a spot treatment. Turf or seed shall be laid on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings in accordance with BS 4546:1986 'Code of practice for general landscape operations'. All grass areas to be approved landscape quality turf for general amenity areas or lawn turf for garden areas, or equivalent seed.
- Wildflower meadows.**
Mixes to be Emorsgate EM4 or grassland mix, Emorsgate EM4 wet grassland and Emorsgate EM4 woodland mix as indicated on the plan. Sow at a rate of approximately 4g / metre square per supplier's instructions.

EXTRACT PLAN - ACCESS ROAD

- Pond edge plug planting**
Plant plugs in groups of 3 of one species in each 2 litre basket and spread around areas indicated on the plan.
 - All plant material to receive annual pruning and hedges and groundcover to be trained and edged with minimum 2 times per year.
 - Check tree stakes and ties annually and after strong winds.
 - Check shrub shelters at least twice annually to remove weeds and any soil build up inside tube. Shelters to be removed in year 3 and recycled.
 - Native shrub plants to be trimmed during winter just after planting, then twice annually in summer and autumn to encourage lower branching and denser growth.
 - Lawn & amenity grass areas - Mowing is to be carried out using approved machinery to maintain the vegetation length within the limits of 30 mm and 50 mm during April to August inclusive and between 50 mm and 70 mm during the rest of the year.
 - Meadow grass, on-going: All areas to receive a main summer hay cut in combination with autumn and spring mow. Leave grass to flower from sowing through to late July/Aug to give sown species the opportunity to flower. After flowering carry out a 'hay' cut with a scythe or 50mm. Leave 'hay' to dry and shed seed for 1-2 days then remove from site. Mow regrowth through to late autumn to 50mm and again in spring as needed. At the time of each cut, all grass edges are to be trimmed round the base of trees, manholes, etc. All adjoining hard areas are to be swept clear of cuttings.
- Maintenance.**
Establishment maintenance for all planting for 5 years from Practical Completion to include weed control, watering and replacement of failures to original specification in the planting season following failure.
 - All plant material to receive annual pruning and hedges and groundcover to be trained and edged with minimum 2 times per year.
 - Check tree stakes and ties annually and after strong winds.
 - Check shrub shelters at least twice annually to remove weeds and any soil build up inside tube. Shelters to be removed in year 3 and recycled.
 - Native shrub plants to be trimmed during winter just after planting, then twice annually in summer and autumn to encourage lower branching and denser growth.
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