

## LANDSCAPE KEY

(Planting: refer to planting schedule & Specification for planting details)

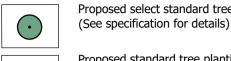
facilitate development



Existing trees and vegetation to be retained and protected to BS 5837:2012 Existing trees and limits of existing vegetation shown approximately from information available Existing trees and vegetation to be removed to



Proposed select standard tree planting (10-12cm girth)



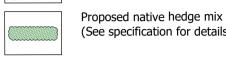
Proposed standard tree planting (8-10cm girth) (See specification for details)



Proposed light standard tree planting (6-8cm girth) (See specification for details)

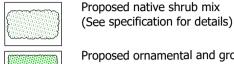


Proposed tall native buffer mix (See specification for details)



(See specification for details)

(See specification for details)



Proposed ornamental and ground cover shrub mix (See specification for details)



Proposed species rich wildflower & grass meadow

Existing scrub and meadow planting to be retained



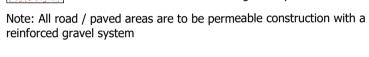
Existing grassed area to be retained and be made good with amenity grass seed where required (See specification for details)

# HARD LANDSCAPE & BOUNDARIES

Proposed Paved/hard surfaced area to patio Paving to be high quality to be PCC paving flag



Proposed access road and parking areas Note: All road / paved areas are to be permeable construction with a reinforced gravel system



Proposed covered cycle store area

15nr bike hoops



Existing fencing to site boundaries be retained. To be made good where required.

## **NOTES:**

## **Trees & Services**

- Where paths and hard surfacing is proposed within close proximity to trees all construction is to be in accordance with BS 5837: 2012
- Root barriers / root protection measures are to be incorporated where required in accordance with guidelines where existing and proposed trees and vegetation are within 2m of proposed building or trees are in close proximity to services (details to be agreed).
- Tree and shrub planting proposed within drainage easements to be approved by local water authority. Planting to incorporate root protection measures around services or planting pits to ensure the sewer system is resistant to tree root ingress in accordance with the current Code for
- Contractor shall comply with NJUG publication, volume 4 'Guidelines For The Planning, Installation And Maintenance Of Utility Services In Proximity To Trees' together with BS 5837:2012 Trees in Relation to Construction. Where conflict arises refer to the British Standard.

## Seed/Turf Schedules:

Total m² to be agreed. To be sown on prepared subsoil. All grass and wildflower seeding is to be carried out in accordance with specification or similar approved by landscape architect.

### **NATIVE SHRUB MIX** % of Mix Species Age Size in cm Spec. 1U1 40-60cm BR Corylus avellana Crataegus monogyana | 1+1 or 1/1 | 40-60cm | BR 0/1 60-80cm BR 20 Salix caprea 1+1 or 1/1 | 60-80cm | BR 10 Sambucus nigra

1+1 or 1/1 | 60-80cm | BR

1+1 or 1/1 | 40-60cm | BR

# Native Hedge Mix Schedule:

**Native Shrub Mix Schedule:** 

10 Prunus spinosa

15 Viburnum opulus

BF LW LW

BF LW LW

Made Chk'd App'd

25

**PLANTING SCHEDULES** 

**NATIVE TREES** 

Height | Girth | Size | Spec

150-175 6-8cm

250-300 8-10cm

Age Spec. Size in cm Spec.

60-90cm BR

40-60cm BR

40-60cm BR

60-90cm BR

60-90cm BR

App'd

03 | 04.11.21 For Planning 02 | 20.07.21 For Planning

01 | 30.06.21 For Planning

00 18.06.21 For comment

Rev Date Detail

1st Holgate Scouts Group

Chk'd:

LW

1+1 or 1/1 Transplant 80-100cm BR

Drawn:

**Drawing Scale:** 

1:500@A1

250-300 8-10cm S B, clear stem 150-175mm

250-300 8-10cm S B, clear stem 150-175mm

300-350 | 10-12cm | SS | B, clear stem 175-200mm

250-300 8-10cm S B, clear stem 150-175mm

F B, clear stem 75-100mm

S B. clear stem 150-175mm

Trees:

Total Species

To be planted as per specification

3 Acer campestre (Ac)

7 Betula pendula (Bp

3 Prunus padus (Pp)

3 Sorbus aria (Sa)

3 Sorbus aria (Sa)

% of Mix Species

Holgate Scouts

Drawing Number:

PWP 514 001

4 Sorbus aucuparia (Sau)

5 Acer Campestre

20 Corylus avellana

10 Malus sylvestris

10 Prunus spinosa

Outline Landscape Masterplan

10 Sorbus aucuparia

45 Crataegus monogyana

Tall Native Buffer Mix Schedule:

To be planted as per specification in staggered rows, at 1.5m<sup>2</sup> centres. Planting to include

TALL NATIVE MIX

1+2 or 1/2

1+1 or 1/1

1+1 or 1/1

1+2 or 1/2

1+1 or 1/1

biodegradable plastic free spiral guards/protection fencing where required.

To be planted as a double staggered row @ 5/lm and as per specification. Planting to include biodegradable plastic free spiral guards/protection fencing where required.

To be planted as per specification in staggered rows, at 0.75m<sup>2</sup> centres. Planting to

include biodegradable plastic free spiral guards/protection fencing where required.

MIXED SPECIES NATIVE HEDGE				
% of mix	Name	Size	Root	Pot
5	Acer Campestre	40-60cm	BR	
10	Corylus avellana	60-80cm	BR	
40	Crataegus monogyana	40-60cm	BR	
10	llex aquifolium	40-60cm	С	3L
20	Prunus spinosa	60-80cm	BR	
5	Rosa canina	40-60cm	BR	
10	Sambucus nigra	60-80cm	BR	

## **Grass Seed Wildflower Mix** Sowing rate @ 5g/m<sup>2</sup> Low Maintenance Grass Seed, Lady's Bedstraw, Common Bird's Foot Trefoil, Bulbous Buttercup, Cat's Ear, Red Clover, White Clover, Cowslip, Common Daisy, Common Dandelion, Harebell, Autumn Hawkbit, Rough Hawkbit, Black Medick, Common Mouse-Ear, Field Pansy, Wild Pansy, Hoary Plantain, Selfheal, Common Speedwell, Germander Speedwell,

FLOWERING LAWN

John Chambers Heritage Flowering Lawn 80%

**AMENITY MIX** John Chambers Grass Seed Utility Sowing rate @ 35g/m<sup>2</sup> Amenity PRG, Slender Creeping red Fescue, Strong Creeping Red Fescue, Browntop Bent

Thrift, Wild Thyme, Kidney Vetch, Yarrow,

Tarrassaps aromissi.				
WILD FLOWER MEADOW				
John Chambers Pro Basic 20 80% Grass Seed				
Wildflower Mix				
Sowing rate @ 5g/m <sup>2</sup>				
Lady's Bedstraw, Common Bird's Foot Trefoil,				
Salad Burnet, Meadow Buttercup, White				
Campion, Wild Carrot, Oxeye Daisy, Common				
Knapweed, Black Medick, Ribwort Plantain,				
Selfheal, Yellow-Rattle, Yarrow, Common				
Sorrel, Red Campion, Kidney Vetch				

## **SOFTWORKS SPECIFICATION NOTES**

The contractor is responsible to ensure that no products or practices are to be used that do not comply with relevant British Standards, Codes of Practice and Construction Regulations. Contractor to be fully satisfied with locations of services prior to excavations.

Site clearance generally: Where necessary remove rubbish, concrete, metal, glass, decayed vegetation and contaminated topsoil. Remove stones exceeding 75 mm. Remove material containing toxins, pathogens or other extraneous substances harmful to plant, animal or human life.

Retain and protect trees and vegetation where necessary. Grub up any large roots and dispose of without undue disturbance of soil and adjacent areas. In order to comply with UK legislation in regard to the Wildlife and Countryside Act 1981 (as amended), any tree or vegetation removal and/or management must take place outside of the bird nesting season (March to September inclusive). Where this cannot be achieved, nesting bird checks must be undertaken by a suitably qualified ecologist within 24 hours of the works.

### Works within the root protection area (RPA):

There shall be no trafficking of machinery, cultivation, ripping or harrowing of the soil, or importing of top soil, within the root protection area (RPA) of the existing trees to be retained. Where paths and hard surfacing is proposed within the retained tree RPA's, a No Dig methodology is to be adopted. Underground reinforcement, such as Cell Web (or similar approved) to be utilised in these locations. No trenches shall be dug within the RPA of the existing trees. New hedging plants within the RPA of the existing trees shall be notch planted.

Imported soil material - To BS 3882:2015. Import as necessary to make up any deficiency of topsoil existing on site and to complete the work. Classification: Multipurpose. Grade: 5-10mm. Locally sourced.

Topsoil requirements - Existing topsoil to be retained and reused on site within the landscape scheme where possible. Where there is no existing topsoil, topsoil to be spread from site stockpile to the following minimum depths after settlement: Grass areas 150mm, Planted areas 450mm, Trees 900mm. All top soil to be screened to remove large stones and other deleterious materials, such as plant roots, leaves and clay. Note: Meadow & wildflower seeding to be sown on subsoil.

Soil Sampling - Existing topsoil and inert sub soils, shall be analysed in accordance with BS 3882:2015 to determine available nutrients, texture, organic matter content and pH. Where require, existing soils are to be improved in accordance with BS 3882:2015

Cultivation - Earth works vehicles to be small scale and tracked to minimise compaction. Flail existing ruderal vegetation to ground level and remove arisings prior to cultivation. If existing subsoil horizon is found to consist of heavy clay, all proposed seeded areas to be tine ripped to 200mm depth at 300mm centres to increase drainage. Areas to be seeded to be chain harrowed to a fine tilth and lightly rolled to provide firm seed bed. Remove all stones over 30mm dia in any direction.

Finished levels of topsoil after settlement: Above adjoining paving or kerbs: 20 mm, within root spread of existing trees: Unchanged. Adjoining soil areas: Marry in. Thickness of turf or mulch: Included.

Compost to tree/shrub pits - Shall be well rotted sterilised spent mushroom compost max. pH 6.8 or Target Treestart compost. The contractor shall provide a Certificate of Analysis to show that the material being supplied complies with the above criteria. Incorporate spent mushroom compost or equivalent approved peat free compost into tree pits at a rate of 3 parts topsoil to 1 part compost, thoroughly mix together.

Fertiliser to ornamental shrub beds - apply slow release fertiliser, Scotts 'Enmag' 4.19.10 NPK or equivalent approved at a rate of 50 gms/sg. metre over topsoil surface and fork into top 225mm spit.

Planting - Minimise trafficking of graded slopes. All plants to be preferably planted between Nov. - March. Nursery stock trees and shrubs to be in accordance with BS 3936 and BS 8545:2014, to be supplied and planted in accordance with British Standards and the Horticultural Association's Plant Handling Guide. Container grown shrubs to be thoroughly watered before planting; trees and bare root shrubs watered after planting.

Times of year for planting: Deciduous Trees, hedges and shrubs: Late October to late March. Evergreen hedges and shrubs: September/ October or April/ May. Container grown plants: At any time if ground and weather conditions are favourable. Watering and weed control: Provide as

Shrub/Hedge planting pits: Timing: Excavate 1-2 days (maximum) before planting. Pit sizes: Wide enough to accommodate roots/toughs when fully spread and 75 mm deeper than root system. Pit bottom improvement Break up to a depth of 150 mm, incorporating 25 g of slow release fertiliser per planting pit. Where existing planting and roots are present plants are to be notch planted to minimise disruption/root damage. Backfilling material: Reuse excavated material. Watering: Immediately after planting, thoroughly and without damaging or displacing plants or soil. Firming: Lightly firm soil around plants and fork and/ or rake soil, without damaging roots, to a fine tilth with gentle cambers and no hollows.

Tree pit sizes - Standard trees excavate a tree pit 1.2m x 1.2m x 900mm. Break up sides and bottom of pits to a depth of 100mm to ensure free

Tree pit treatment: Soil ameliorant worked into pit bottoms. Pit sides: Scarify. Backfilling material: Topsoil as per specification. Drainage Layer: Provide 200mm layer washed, clean gravel to base of pits to aid drainage (tree pit to be actively drained if poor draining soil or clay discovered by contractor).

Typically trees in soft landscape to be staked unless stated otherwise by the Landscape Architect. Underground guying is recommended for trees in hard landscape and in public areas. Trees to be staked using 1m long x 75mm dia. round timber stakes (size of stakes to be adjusted to suit size of tree). Cross member to be installed 75mm x 25mm (larger trees will need large cross members). Locate proprietary Hessian ties on cross member to secure tree and prevent rubbing. Short stakes (<1.0m high) with biodegradable Hessian ties are recommended to encourage wind tolerance and prevent rubbing. Tree pit accessories by Green Tech or similar: Underground guying and perforated plastic irrigation/ ventilation pipe to landscape architects approval.

Tree pit root barrier to be used wherever the installed rootball will be within 2m of a building foundation or within proximity to underground utilities (distance at which root barrier is required is as per utility providers standards should be confirmed prior to installation). Root barrier by Green Tech or similar to be installed vertically to supplier/landscape architect recommendations.

Rabbit/Deer proof fencing around the perimeter of the newly planted areas or individual biodegradable plastic free spiral guards to be installed around all planting where required. Where areas are fenced, mesh to be 1m min above ground and buried 300mm below ground.

Mulch - Approved medium course chipped tree bark composted for at least 4 weeks. Particle size 25-75mm dia, max. 20% fines, pests and disease free and free of Methyl Bromide contamination. Clear any weeds and water soil before applying mulch. All planting areas should receive an even 75mm depth of bark mulch, Top of mulch to be 15mm min. below adjacent hardstanding to avoid spillage. 50mm depth is only suitable for higher quality ornamental bark (<5% fines, 5-35mm size etc.). All bark should be FSC certified. Option to use biodegradable mulch mats can be used to control moisture, soil temperature, erosion and weeds.

Seeding and making good existing grass areas: Steep embankments to be hydroseeded where required. After cultivating, grading and fertilizing prepare seed bed to fine, firm tilth with good crumb structure (Depth: 25 mm). Rake to a true, even surface, friable and lightly firmed but not over compacted. Remove surface stones/earth clods. Extend cultivation into existing adjacent amenity grassed areas sufficient to ensure full marrying in of levels where required. Evenly distribute seeds at an application rate of 35g/m². Establish good seed contact with the root zone to promote healthy, consistent growth. Lightly harrow or rake to cover seed. Thoroughly water completed seeding.

Where cutting planting beds into existing grassed areas, the surrounding grass shall be protected and made good as necessary. These areas to be made good by preparing and re-seeding area. Seed mixes: John Chambers Prize Lawn seed or similar approved.

Turf Preparation - Lay turf with minimum possible delay after lifting. If delay occurs, lay turf out on topsoil and keep moist. Do not lift turf in frosty weather or if ground waterlogged.

Arrange phased delivery timescales to avoid need for excessive stacking. Stacking height 1m (max). Do not use dried out or deteriorated turf. After cultivating, grading and fertilizing prepare seed bed to fine, firm tilth with good crumb structure (Depth: 25 mm). Rake to a true, even surface, friable and lightly firmed but not over compacted. Remove surface stones/earth clods. Extend cultivation into existing adjacent grassed areas sufficient to ensure full marrying in of levels.

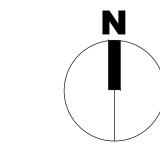
Turf Implementation - Turf to be laid in Spring and summer within 18 hours of delivery; and Autumn and winter within 24 hours of delivery. Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry. Planks to be laid on previously laid turf. Do not walk on prepared bed or newly laid turf.

Turf laid with broken joints, well butted up. Do not stretch turf. At the edges, whole turfs to overlap line, trimmed to a true line. Remove high spots and fill hollows with fine soil to adjust levels Lightly and evenly firm as laying proceeds to ensure full contact with substrate. Do not use rollers. Dress turf with Sharp sand at a rate of 2kg/m2 and brushed in to completely fill joints. Thoroughly water completed turf immediately after laying. Check that water has penetrated into the soil below. Use hardy low maintenance amenity turf suitable for use in shade (To BS 3969).

## Seed Preparation and Implementation for Wildflower Areas

After cultivating and grading prepare seed bed to fine, firm tilth with good crumb structure (Depth: 25 mm) Rake to a true, even surface, friable and lightly firmed but not over compacted. Remove surface stones/earth clods. Extend cultivation into existing adjacent amenity grassed areas sufficient to ensure full marrying in of levels where required. Evenly distribute seeds at the manufacturers recommended application rate. Establish good seed contact with the root zone to promote healthy, consistent growth. Lightly harrow or rake to cover seed. Thoroughly water completed seeding.

Maintenance - 1 year Defects Liability Period applies. All dead or failing plants to be replaced the following growing season. Maintain a weedfree bare earth area 600mm dia minimum around individual trees and shrubs. Herbicide shall only be used where necessary and if use is required it should be a non-residual translocated herbicide and spot applied/applied with spray guard. Application and use to be in accordance with EA guidance. Prior to spraying ensure all spirals are tight to ground level and leaves within spray range are fully enclosed. Arisings: Remove. Trim all edges. Weed control: Substantially free of broad leaved weeds. Method: Application of a suitable selective herbicide. Remove any stones 25 mm in any dimension brought to the surface. Watering: To ensure establishment.



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- 1. Not for construction all dimensions to be confirmed on site
- Based on Layout Drawing Proposed Site Plan 19/15/02 by PSM Design

Contractor to be fully satisfied with locations of services prior to excavations.

- Refer to architects/engineers drawing for hard landscape, boundary treatments, site levels, drainage, retaining walls. BF LW LW 4. Build ups/footings to engineers specification.
  - 6. All existing trees to be protected to BS 5837:2012.
- BF LW LW Existing trees and limits of existing vegetation shown approximately from information available.

Yellow-Rattle