Code	Species	Height (cm/mm)	Transplants	Girth	Habit/Form	Density/No.	Numbers
	DECIDUOUS TREE PLANTING						
Ac	Acer platanoides	450-500cm	x3	18 20 RB	2.2m clear stem	item	3
Ag	Alnus glutinosa	400-450cm	x3	Min 3 Stems from base		item	2
Bp	Betula pendula	450-500cm	x3	18 20 RB	2.2m clear stem	item	5
Bug	Betula utilis var jacmontii	350-400cm	x3		Min 3 Stems from base	item	1
Ck	Cornus kousa var 'Chinensis'	350-400cm	x3		Min 3 Stems from base	item	4
Mt	Malus hochonokii	450-500cm	x4	18 20 RB	2.2m clear stem	item	2
Pcc	Pyrus chanticleer	450-500cm	x3	18 20 RB	2.2m clear stem	item	5
Pl	Platanus x acerifolia	450-500cm	x4	18 20 RB	2.2m clear stem	item	3
Qr	Quercus rubra	450-500cm	x4	18 20 RB	2.2m clear stem	item	3
Qrf	Quercus robur 'fastigiata'	450-500cm	x4	18 20 RB	2.2m clear stem	item	2
	HEDGE PLANTING						
	Formal hedging						
Fs	Fagus sylvatica	150-180cm	Field grown	BR	Feathered from base	5/nm	
	ORNAMENTAL SHRUB PLANTING						
	Allium 'Purple Sensation'	Full pot			Bulb		
	Buxus sempervirens	40 60cm		3L PG	Bushy	4/m2	
	Ilex crenata	40 60cm		3L PG	Bushy	4/m2	
	Hebe sutherlandii	40 60cm		3L PG	Bushy	4/m2	
	Cornus alba Sibirica	1000		3L PG	Bushy	4/m2	
	Liriope muscari	500		3L PG	Bushy	4/m2	
	Lavandula angustifolia 'Hidcote'	Full pot		3L PG	Branched	4/m2	
	Pachysandra terminalis	20 30cm		3L PG	Bushy	5/m2	
	Pinus mugo 'munghus'	500		3L PG	Bushy	3/m2	
	Salvia officinalis 'Purpurascens'	Full pot		2LC	Bushy	5/m2	
	Verbena bonariensis	Full pot		2LC	Bushy	5/m2	
	ORNAMENTAL GRASS PLANTING						
	Calamagrostis acutiflora 'Karl Foerster'			3L PG	Full pot	4/m2	
	Pennisetum setaceum 'Rubrum'			3L PG	Full pot	4/m2	
	Miscanthus sinensis			3L PG	Full pot	4/m2	
	Miscanthus sinensis Variegatus			3L PG	Full pot	4/m2	
	Stipa tenuifolia			3L PG	Full pot	4/m2	
	MARGINAL PLUG PLANTING TO BASE OF SWALES (Base of Swale, = 180 sqm)						
	Acorus calamus	Full pot		BR Plug	10%	5/m2	90
	Alisma plantago- acquatica	Full pot		BR Plug	10%	5/m2	90
	Butomus umbellatus	Full pot		BR Plug	10%	5/m2	90
	Caltha palustris	Full pot		BR Plug	10%	5/m2	90
	Iris pseudoacorus	Full pot		BR Plug	20%	5/m2	180
	Myosotis scorpiodes	Full pot		BR Plug	10%	5/m2	90
	Ranunculus lingua	Full pot		BR Plug	10%	5/m2	90
	Saggittaria sagittifolia	Full pot		BR Plug	10%	5/m2	90
	Sparganium emersum	Full pot		BR Plug	10%	5/m2	90
	PLANTING TO TOP OF SWALE BANKS (Banks of Swale area = 180 sqm)						
	Butomus umbellatus	Full pot		BR Plug	20%	5/m2	180
	Glyceria fluitans	Full pot		BR Plug	20%	5/m2	180
	Juncus effuses	Full pot		BR Plug	20%	5/m2	180
	Lythrum salicaria	Full pot		BR Plug	20%	5/m2	180
	Mentha aquatica	Full pot		BR Plug	10%	5/m2	90
	Menyanthes trifoliate	Full pot		BR Plug	10%	5/m2	90
	BULB PLANTING (300 sqm)						
	Crocus (white, lilac and purple mix)			Bulb	25%	10/m2	750
	Hyacinthoides non-scripta			Bulb	25%	10/m2	750
	Narcissus 'King Alfred'			Bulb	25%	10/m2	750
	Narcissus pseudonarcissus			Bulb	25%	10/m2	750
	GRASS SEED MIXES						
	Wetland Swale mix- BSH WFG 9						
	Neutral Soils mix- BSH WFG 4						
	Shade tolerant grass mix- A6						
	General amenity grass- A4						

Hazel Plantation Mix (Planted at 1.5m centres)					
	Species	**Height (mm)**	**Pot Size/Girth**	**Percentage**	**Number**
Trees					
Qr	Quercus robur		12-14cm		28
Feathered whips					
Ca	Corylus avellana	1500	BR	10	24
Whips					
Ca	Corylus avellana	1000	BR	80	190
Qr	Quercus robur	1000	BR	10	24

SOFTWORKS

SEMI-MATURE BROADLEAF TREE PLANTING
18-20cm girth.
Refer to planting schedule for details and specification.
To be planted in minimum 900mm deep soil. Refer to planting details and specif cation.

SEMI-MATURE ORNAMENTAL TREE PLANTING
18-20cm girth
Refer to planting schedule for details and specification.
To be planted in minimum 900mm deep soil. Refer to planting details and specif cation.

SEMI-MATURE MULTISTEM FEATURE TREE
Refer to planting schedule for details and specification.
To be planted in minimum 900mm deep soil. Refer to planting details and specif cation.

EXISTING TREES TO BE RETAINED
Trees retained where advantageous to the scheme. For retained planes to the south east corner of the site additional crown prunning & lifting is required with all deadwood removed. Refer to tree retention and removal drawing

HEDGING
Planted in a double staggered row with a minimum 600mm deep x 600mm wide soil trench with a post and wire fence installed during establishment.

WHIP PLANTING
Whip and feathered whips planted on a 1.5m grid. Hazel and oak mix with larger standard oak specimens dotted throughout. Each planted with grow tubes staked in place.

WILDFLOWER SEEDING
Additional grass and wildf bwer seeding to edge of existing tree planting
BSH WFG4

EARTHWORKS AND WILDFLOWER SEEDING
1.3m high earthworks with wildf bwer seeding.
BSH WFG 4

PROPOSED SHADE TOLERANT GRASS MIX WITH SEASONAL BULB PLANTING
Existing shrubs to be removed, cultivated and seeded. Seasonal bulb interspearsed throughout the grass area.

ORNAMENTAL GRASS PLANTING
Throughout parking bay divisions. Planting in a minimum 450mm deep soil with a minimum of 75mm bark mulch dressing. Refer to schedule for species.

ORNAMENTAL SHRUB PLANTING
Bands of single species shrubs.
Planting in a minimum 450mm deep soil with a minimum of 75mm bark mulch dressing. Refer to schedule for species.

PLUG PLANTING AND WILDFLOWER SEED MIX TO SWALE
British Seed House WFG9 Wetland and Pond, or similar approved.
Wildf bwer seed mix and Plug plants to swale. Refer to schedule for species. Geotextile bank reinforcement system to swale - Boddingtons Terram Geocell or similar approved.

ROOT PROTECTION BARRIERS - to be installed where all trees are near building or services. Location and extent to be confirmed.

EXISTING GRASS TO PLAYING FIELDS RETAINED

Planting Notes:

1. Plant handling at the nursery, and during transit up to delivery , shall be in accordance with 'Plant Handling' the booklet published by the Committee for Plant Supply and Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association) which refers to the reciept, unloading and temporary storage of plants.

2. Plants shall be first class examples of their species or variety, free from all pests and diseases with good fibrous root systems and materially undamaged.
(Refer to relevant sections 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 trees are to be staked and secured as followed:
i) All semi mature trees are to be underground guyed, detail to be confirmed.
ii) All Extra Heavy standard trees are to be double staked to 750mm above ground and secured using a single rubber tie. Detail to be confirmed

5. One number 80litre bag of tree planting compost (non peat based) is to be incorporated into two EHS tree pits or 4 Sel Std tree pits. Compost must be thoroughly mixed with with excavated (or imported) topsoil. Trees shall be planted in tree pits large enough to accomodate tree roots when fully spread.

6. Trees planted in grass are to have a 500mm diameter clear zone to the base and are to be mulched to a depth of 50mm with approved medium grade tree bark.

7. The contractor must ascertain for himself the exact location of any underground services and maintenance points.

8. All seeding, turfing and planting is to be implemented into ground prepared by the main contractor. All hedgerow whips and understorey whip planting are to be pit planted and backfilled with P4 Water Retaining Polymer and Ermag slow release fertiliser. Rates of application to Manufacturers recommendations.

9. Water as necessary to ensure the establishment and continued thriving of planted and grassed matter.

10. Carry out all work when soil and weather conditions are suitable:
i) Do not plant during periods of frost or strong winds. Plant only during the following periods
- Bare root deciduous trees and shrubs: Late October to late March
- Container grown plants: At any time if ground water and weather conditions are favourable.
Ensure that adequate watering and weed control is available.

11. All areas of ornamental shrub planting & hedging are to be mulched to a consolidated depth of 75mm using an approved amenity grade bark mulch.

Maintenance Notes- these notes are for guidance only. Please refer to dedicated report for detailed information

1. Maintenance is to be carried out on a monthly basis (12nr annual visits) At each visit the following operations are to be carried out:
a- Check and firm all planted material including tree stakes and ties. Adjust any ties that are loose or rubbing. Tree stakes are to be removed following the second growing season following establishment. Also check materials after stormy or windy conditions.
b- Check for pests and diseases and treat appropriately
c- Remove all weeds and unwanted material via a combination of chemical and hand weeding operations to maintain a 1m clear area around each whip.
d- Pick up all litter and remove all arisings from site
e- Sweep all paths and roadways and dispose off site
f- Remove any dead material from site
g- Mow all seeded and turfed areas to a height of 50mm for the first cut following sowing and 20mm for each cut thereafter (15 cuts annually - Fortnightly during the growing season. No cuts between Nov - March).
h- Water as necessary to ensure the continuing health of all plants and grass

2. Carry out the following operations every 6 months:
a- Apply an approved fertilizer (non residual) to all planted material during spring and autumn
b- Apply an approved fertilizer to low maintenance grass areas during spring and autumn
c- Clip hedges to achieve the mature height of 1.2m. Leader growth to be left until this height is achieved and then lateral growth promoted.

3. Carry out the following operations annually:
a- During autum or following flowering prune all shrub material in accordance with good horticultural practice
b- Check all tree stock and carry out any necessary pruning (in accordance with good horticultural practice) to remove dead, dying, diseased or dangerous limbs or to achieve a balanced crown.
c- Top up all areas of bark mulch to a consolidated depth of 50mm
d- Replace any material which has failed over the previous 12 months. All replacements are to be of equal specification as the original and the replacements schedule is to be agreed with the CA prior to implementation. Any deviation from the species list must be agrees with the CA.
e- Edge all grassed areas adjacent to hard standing, shrub beds and around trees in grass during spring

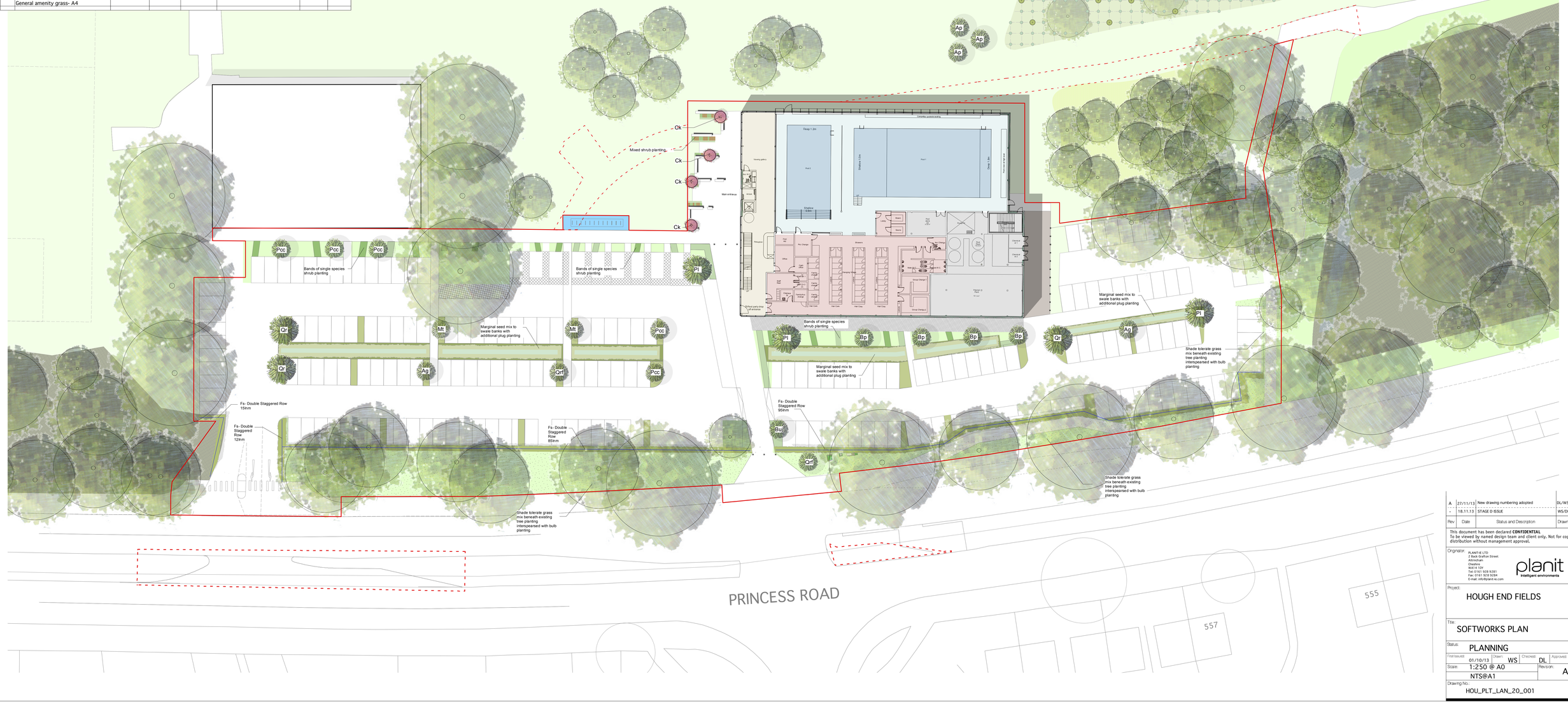
Workmanship and Maintenance Generally

All works will be subject to the following British Standards :-

- B.S. 4428 : 1969 : General Landscape Operations
- B.S. 3936 : Part 1 : 1980 : Specification for Trees and Shrubs
- B.S. 3936 : Part 10: 1981 : Specification for Ground Covers
- B.S. 5837 : 2012 : Trees in Relation to Construction

NOTE:
1. Do not scale from this drawing
2. All setting out, levels and dimensions to be agreed on site.
3. The dimensions of all materials must be checked on site before being laid out.
4. This drawing must be read with the relevant specification clauses and detail drawings
5. Order of construction and setting out to be agreed on site.
6. This drawing is copyright protected and may not be reproduced in whole or part without written authority.

N O R T H



Rev	Date	Status and Description	Drawn	Apprd
A	27/11/13	New drawing numbering adopted	DL/WS	DL
-	18.11.13	STAGE D ISSUE	WS/DL	EL

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Orgnator:
PLANIT IE LTD
7 Bell Yard Lane Street
Altrincham
Cheshire
WA14 1DY
Tel: 0161 928 9281
Fax: 0161 928 9284
E-mail: info@planit-ie.com

planit
Intelligent environments

Project:
HOUGH END FIELDS

Title:
SOFTWORKS PLAN

Status:
PLANNING

First Issued:	Drawn:	Checked:	Approved:
01/10/13	WS	DL	LH

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