



Native Hedgerow Mix

Number	Common Name	Species	Specification	Density	Height	Mix Species Contribution
6563 No.	Common Hawthorn	<i>Crataegus monogyna</i>	1+1 :BR	6/m	60-80cm	75%
2191 No.	Blackthorn	<i>Prunus spinosa</i>	1+1 :BR	6/m	60-80cm	25%
Total :8754 No.						Total :100%

Native Woodland Planting Mix

Number	Common Name	Species	Specification	Density	Height	Mix Species Contribution
280 No.	Common Maple	<i>Acer campestre</i>	1+1	2Ctr	40-60cm	30%
47 No.	Common Alder	<i>Alnus glutinosa</i>	1+1	2Ctr	40-60cm	5%
94 No.	Common Hornbeam	<i>Carpinus betulus</i>	1+1	2Ctr	40-60cm	10%
47 No.	Common Dogwood	<i>Cornus sanguinea</i>	1+1	2Ctr	40-60cm	5%
140 No.	Common Hazel	<i>Corylus avellana</i>	1+1	2Ctr	40-60cm	15%
47 No.	Common Hawthorn	<i>Crataegus monogyna</i>	1+1	2Ctr	40-60cm	5%
47 No.	Common Crab Apple	<i>Malus sylvestris</i>	1+1	2Ctr	40-60cm	5%
187 No.	Common Oak	<i>Quercus robur</i>	1+1	2Ctr	40-60cm	20%
47 No.	Dog Rose	<i>Rosa canina</i>	1+1	2Ctr	40-60cm	5%
Total :936 No.						Total :100%

Specification and schedule of quantities. Specimen trees to be planted as a random mix of species.

Botanic Name	Common Name	Height (cm)	Girth (cm)	Root	Quantity
<i>Quercus robur</i>	Pedunculate Oak	250-300	6-8	RB	13
<i>Malus sylvestris</i>	Crab Apple	250-300	6-8	RB	9

Specification and schedule of quantities. Network Rail Embankment Native species grassland seed mix 13387m². Area taking into account approximate 3:1 slope gradients.

Botanical Name	Common Name	Percentage
Wild flowers		
<i>Achillea millefolium</i>	Yarrow	0.5
<i>Centaurea nigra</i>	Common Knapweed	0.5
<i>Daucus carota</i>	Wild Carrot	1
<i>Galium verum</i>	Lady's Bedstraw	2.5
<i>Knautia arvensis</i>	Field Scabious	1
<i>Leucanthemum vulgare</i>	Oxeye Daisy	2
<i>Lotus corniculatus</i>	Birdfoot Trefoil	0.2
<i>Plantago lanceolata</i>	Ribwort Plantain	1
<i>Primula veris</i>	Cowslip	1.5
<i>Prunella vulgaris</i>	Selheal	2.5
<i>Ranunculus acris</i>	Meadow Buttercup	3
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	2
<i>Rhinanthus minor</i>	Yellow Rattle	1.5
<i>Rumex acetosa</i>	Common sorrel	0.8
Grasses		
<i>Agrostis capillaris</i>	Common Bent	8
<i>Cynosurus cristatus</i>	Crested Dogstail	40
<i>Festuca rubra</i>	Slender-creeping Red-fescue	28
<i>Phleum bertolonii</i>	Smaller Cat's-tail	4

Specification Note:
 Planting and seeding shall be undertaken in accordance with the Highways Agency Manual of Contract Documents for Highway Works Specification Series 3000 Landscape and Ecology.
 The whole of the areas to be seeded or planted shall be cultivated to relieve compaction and produce a fine tilth.
 Seeding shall be undertaken within the period March/April or September/October.
 Planting shall be undertaken within the period November to March inclusive.
 Whips/transplants shall be notch planted.
 Standard and all large trees shall be pit planted and staked.
 All tree and shrub material (including hedging) shall be fitted with biodegradable sheet mulch mats. Mulch mats shall be either square or round with a diameter of 800-1000mm with mulch mat rolls used for hedgerow planting.
 Protection of tree and shrub material (including hedging) from grazing animals by the use of individual proprietary guards or fencing may be required, subject to an assessment of the risk of damage.

- KEY**
- PERMANENT LAND EASEMENT
 - NETWORK RAIL BOUNDARY (INDICATIVE)
 - GRASS SEEDING (NATIVE SPECIES GRASSLAND MIX)
 - EXISTING TREE LINE OR HEDGEROW TO BE RETAINED
 - PROPOSED HEDGE PLANTING
 - PROPOSED NATIVE WOODLAND MIX AREA: 3322m²
 - PROPOSED SPECIMEN TREES
 - TIMBER POST AND RAIL FENCE BY OTHERS
 - POST AND WIRE STOCKPROOF FENCING TO BE DONE BY LANDSCAPE CONTRACTOR
 - PROPOSED SURFACE WATER DITCH DONE BY OTHERS

- NOTES**
- All dimensions in metres unless otherwise stated.
 - Earthworks approach embankments shown at a maximum 1 in 3 slope.
 - Only high risk existing buried services have been identified, all other existing buried services have been omitted for clarity. For service details see site specific drawings. The service information shown on these drawings has been collated from service returns dated December 2013 and survey site investigations by others in relation to the east west rail corridor. No liability of any kind whatsoever is accepted by Atkins limited, its servants or agents, for any error or omission in respect of information contained on the plans provided. This plan is a compilation of a number of plans provided at different scales and is intended to provide a graphical representation of services within the area and it is impossible to guarantee accuracy. In addition it is a compilation of information supplied by utility companies who do not guarantee the accuracy of the information. The underground services must be verified and established on site before any excavation is carried out. It is the responsibility of any site contractor to identify and locate any utility plant prior to development work going ahead.
 - All works have been designed in accordance with network rail recommended planting species matrix v2.1. All planting is in excess of 5m from running rails.

This drawing is based on:
 • LANDSCAPE GENERAL ARRANGEMENT PLAN (5114534-ATK-DRG-AR-907354)
 • PROPOSED BOUNDARY FENCING AND ACCESS STRATEGY SHEET 22 OF 38 (5114534-ATK-DRG-MD-705222)
 • EWR P1 CO-ORDINATION SHEET 22 OF 38 (5114534-ATK-DRG-MD-70022 Rev P04)

Hedge alignment is indicative and for illustrative purposes and will follow Limit of Deviation that will be confirmed on site.

Access for maintenance via OS Grid Reference: 455587, 217464. Pedestrian access.

Rev	Date	Amendment	Drawn	Chkd	Appd
C02	01/09/15	ATKINS DRAWINGS HAVE BEEN AMENDED BY RSK - NEW FENCING, REMOVAL AND AMENDMENT OF SWALE AND PASSING PLACE	PHM	SF	SF
C01	21/08/15	ATKINS DRAWINGS HAVE BEEN AMENDED BY RSK - HEDGE DENSITY CHANGED FROM 300MM SPACING TO 8 PER LINEAR METRE OVERBRIDGE UPDATED AND SEED MIX AREAS RECALCULATED WOODLAND MIX ADDED	RP	SF	SF

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Client
CARILLION BUCKINGHAM JOINT VENTURE

Project Title
EAST WEST RAIL PHASE 1

Drawing Title
HOLTS FARM OVERBRIDGE LANDSCAPE GENERAL ARRANGEMENT PLAN

Drawn	Date	Checked	Date	Approved	Date
CN	27/07/15	SF	27/07/15	SF	27/07/15

Scale
 1:500

Project No.
 121097

Drawing File
 RSK/M/121097/04/02/06/C02

Drawing No.
 RSK-DRG-ISS-P011

Rev
 C02

0 5 10 20 30 40
 Scale 1:500 m