Revision & Version
A01.05

Drawing Number
133735_2A-EWR-OXD-XX-DR-L-011100

Amenity grass mix — *EM1*

Wild Flowers

Botanical name	Common name	%
Achillea millefolium	Yarrow	1
Centaurea nigra	Common Knapweed	5
Dacus carota	Wild Carrot	1
Galium verum	Lady's Bedstraw	4
Leucanthemum vulgare	Ownye Daisy	0.5
Pimpinella saxifraga - (Sanguisorba minor)	Salad Burnet	2
Prunella vulgaris	Selfheal	1
Ranunculus acris	Meadow Buttercup	3
Rumex acetosa	Common Sorrel	0.5
Silene dioica	Red Campion	2
		20

Grasses

Botanical name	Common name	%
Agrostis capillaris	Common Bent	8
Cynosurus cristatus	Crested Dogstail	40
Festuca rubra	Slender-creeping Red-fescue	28
Phleum bertolonii	Smaller Cat's-tail	4
		80

Agricultural grass mix — Emorsgate ESG3

Botanical name	Common name	%
Cynosurus cristatus	Crested Dogstail	20
Dactylis glomerata	Cocksfoot	15
Festuca rubra	Strong-creeping Red-fescue	20
Phleum bertolonii	Smaller Cat's-tail	10
Poa pratensis	Smooth-stalked Meadow-grass	15
Schedonorus pratensis (Festuca pratensis)	Meadow Fescue	20
		100

Wetland grass mix — *EM8*

Wild Flowers

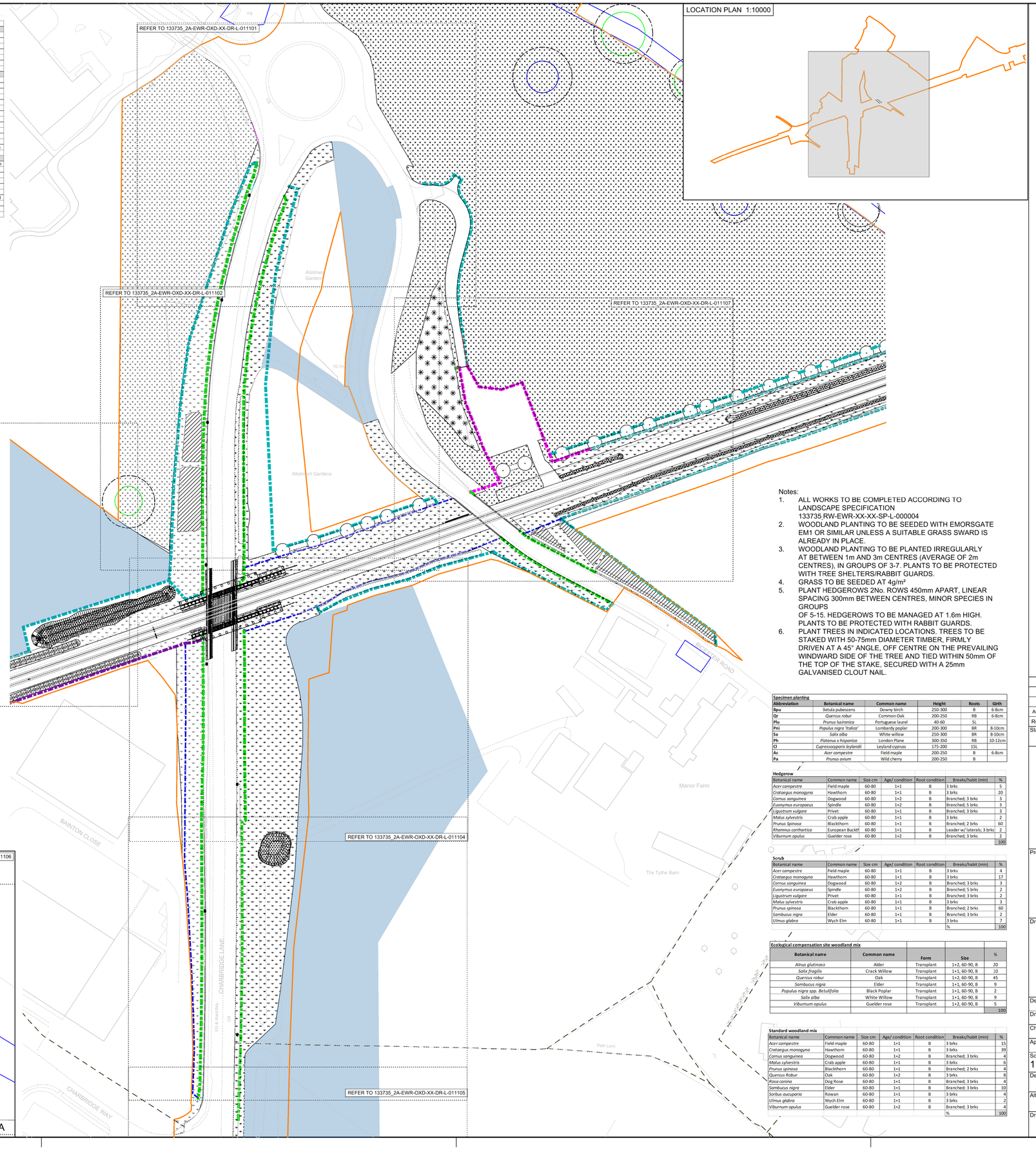
Botanical name	Common name	%
Achillea millefollium	Yarrow	0.5
Achillea ptarmica	Sneezewort	0.2
Betonica officinalis - (Stachys officinalis)	Betony	1
Centaurea nigra	Common Knapweed	2.5
Filipendula ulmaria	Meadowsweet	2
Galium verum	Lady's Bedstraw	1.5
Geum rivale	Water Avens	0.4
Leucanthemum vulgare	Ownye Daisy	0.5
Lotus pedunculatus	Greater Birdsfoot Trefoil	0.6
Plantago lanceolata	Ribwort Plantain	1
Primula veris	Cowslip	1
Prunella vulgaris	Selfheal	1
Ranunculus acris	Meadow Buttercup	2
Rhinanthus minor	Yellow Rattle	1.5
Rumex acetosa	Common Sorrel	1
Sanguisorba officinalis	Great Burnet	2
Silaum silaus	Pepper Saxifrage	0.5
Silene flos-cuculi - (Lychnis flos-cuculi)	Ragged Robin	0.2
Succisa pratensis	Devils's-bit Scabious	0.6
		20

Grasses

Botanical name	Common name	%
Agrostis capillaris	Common Bent	10
Alopecurus pratensis	Meadow Foxtail (w)	2
Anthoxanthum odoratum	Sweet Vernal-grass (w)	2
Briza media	Quaking Grass (w)	2
Cynosurus cristatus	Crested Dogstail	32
Deschampsia cespitosa	Tufted Hair-grass (w)	1
Festuca rubra	Slender-creeping Red-fescue	24
Hordeum secalinum	Meadow Barley (w)	1
Schedonorus pratensis - (Festuca pratensis)	Meadow Fescue (w)	6
		80

Pond planting

Botanical name	Common name
Marginal Species	
Cardamine pratensis	Cuckoo Flower
Carex acutiformis	Lesser Pond Sedge
Juncus effusus	Soft Rush
Juncus inflexus	Hard Rush
Lychnis flos-cuculi	Ragged Robin
Persicaria bistorta	Common Bistort
Ranunculus flammula	Lesser Spearwort
Emergent Species	
Caltha palustris	Marsh Marigold
Hydrocharis morsus-ranae	Frogbit
Filipendula ulmaria	Meadowsweet*
Iris pseudacorus	Yellow Flag Iris
Lythrum salicaria	Purple loosestrife
Mentha aquatica	Water Mint*
Myosotis scorpioides	Water Forget-me-not*
Persicaria amphibia	Amphibious Bistort
Potentilla palustris	Marsh Cinquefoil
Sagittaria sagittifolia	Arrowhead
Sparganium erectum	Branched Bur-Reed
Ranunculus lingua	Greater Spearwort
Ranunculus sceleratus	Celery-leaved Buttercup
Veronica beccabunga	Brooklime*
Floating & Submerged Species	
Callitriche stagnalis	Common Water Starwort
Ceratophyllum demersum	Common Hornwort
Fontinalis antipyretica	Willow Moss
Lemna minor	Duckweed
Nymphaea alba	White Water Lily
Potamogeton crispus	Curled Pondweed*
Potamogeton natans	Broad-leaved Pondweed
Potamogeton pectinatus	Fennel Pondweed
Ranunculus aquatilis	Water Crowfoot
Stratiotes aloides	Water Soldier



Notes:

1. ALL WORKS TO BE COMPLETED ACCORDING TO LANDSCAPE SPECIFICATION 133735.RW-EWR-XX-XX-SP-L-000004
2. WOODLAND PLANTING TO BE SEEDED WITH EMORSGATE EM1 OR SIMILAR UNLESS A SUITABLE GRASS SWARD IS ALREADY IN PLACE.
3. WOODLAND PLANTING TO BE PLANTED IRREGULARLY AT BETWEEN 1m AND 3m CENTRES (AVERAGE OF 2m CENTRES), IN GROUPS OF 3-7. PLANTS TO BE PROTECTED WITH TREE SHELTERS/RABBIT GUARDS.
4. GRASS TO BE SEEDED AT 4g/m²
5. PLANT HEDGEROWS 2No. ROWS 450mm APART, LINEAR SPACING 300mm BETWEEN CENTRES, MINOR SPECIES IN GROUPS OF 5-15. HEDGEROWS TO BE MANAGED AT 1.6m HIGH. PLANTS TO BE PROTECTED WITH RABBIT GUARDS.
6. PLANT TREES IN INDICATED LOCATIONS. TREES TO BE STAKED WITH 50-75mm DIAMETER TIMBER, FIRMLY DRIVEN AT A 45° ANGLE, OFF CENTRE ON THE PREVAILING WINDWARD SIDE OF THE TREE AND TIED WITHIN 50mm OF THE TOP OF THE STAKE, SECURED WITH A 25mm GALVANISED CLOUT NAIL.

Specimen planting

Abbreviation	Botanical name	Common name	Height	Roots	Girth
Bpu	Betula pubescens	Downy birch	250-300	B	6-8cm
Qr	*Quercus robur*	Common Oak	200-250	RB	6-8cm
Plu	*Prunus lusiranica*	Portuguese laurel	40-60	5L	
Pni	*Populus nigra 'Italica'*	Lombardy poplar	200-300	BR	8-10cm
Sa	*Salix alba*	White willow	250-300	BR	8-10cm
Ph	*Platanus x hispanica*	London Plane	300-350	RB	10-12cm
Cl	*Cupressocyparis leylandii*	Leyland cypruss	175-200	15L	
Ac	*Acer campestre*	Field maple	200-250	B	6-8cm
Pa	*Prunus avium*	Wild cherry	200-250	B	

Hedgerow

Botanical name	Common name	Size cm	Age/ condition	Root condition	Breaks/habit (min)	%
Acer campestre	Field maple	60-80	1+1	B	3 brks	5
Crataegus monogyna	Hawthorn	60-80	1+1	B	3 brks	20
Cornus sanguinea	Dogwood	60-80	1+2	B	Branched; 3 brks	3
Euonymus europaeus	Spindle	60-80	1+2	B	Branched; 5 brks	3
Ligustrum vulgare	Privet	60-80	1+1	B	Branched; 3 brks	3
Malus sylvestris	Crab apple	60-80	1+1	B	3 brks	2
Prunus Spinosa	Blackthorn	60-80	1+1	B	Branched; 2 brks	60
Rhamnus cathartica	European Buckth	60-80	1+1	B	Leader w/ laterals; 3 brks	2
Viburnum opulus	Guelder rose	60-80	1+2	B	Branched; 3 brks	2
						100

Scrub

Botanical name	Common name	Size cm	Age/ condition	Root condition	Breaks/habit (min)	%
Acer campestre	Field maple	60-80	1+1	B	3 brks	4
Crataegus monogyna	Hawthorn	60-80	1+1	B	3 brks	17
Cornus sanguinea	Dogwood	60-80	1+2	B	Branched; 3 brks	3
Euonymus europaeus	Spindle	60-80	1+2	B	Branched; 5 brks	2
Ligustrum vulgare	Privet	60-80	1+1	B	Branched; 3 brks	2
Malus sylvestris	Crab apple	60-80	1+1	B	3 brks	3
Prunus spinosa	Blackthorn	60-80	1+1	B	Branched; 2 brks	60
Sambucus nigra	Elder	60-80	1+1	B	Branched; 3 brks	2
Ulmus glabra	Wych Elm	60-80	1+1	B	3 brks	7
					%	100

Ecological compensation site woodland mix

Botanical name	Common name	Form	Size	%
Alnus glutinosa	Alder	Transplant	1+2, 60-90, B	20
Salix fragilis	Crack Willow	Transplant	1+1, 60-90, B	10
Quercus robur	Oak	Transplant	1+2, 60-90, B	45
Sambucus nigra	Elder	Transplant	1+1, 60-90, B	9
Populus nigra spp. Betulifolia	Black Poplar	Transplant	1+1, 60-90, B	2
Salix alba	White Willow	Transplant	1+1, 60-90, B	9
Viburnum opulus	Guelder rose	Transplant	1+2, 60-90, B	5
				100

Standard woodland mix

Botanical name	Common name	Size cm	Age/ condition	Root condition	Breaks/habit (min)	%
Acer campestre	Field maple	60-80	1+1	B	3 brks	15
Crataegus monogyna	Hawthorn	60-80	1+1	B	3 brks	39
Cornus sanguinea	Dogwood	60-80	1+2	B	Branched; 3 brks	4
Malus sylvestris	Crab apple	60-80	1+1	B	3 brks	6
Prunus spinosa	Blackthorn	60-80	1+1	B	Branched; 2 brks	4
Quercus Robur	Oak	60-80	1+2	B	3 brks	8
Rosa canina	Dog Rose	60-80	1+1	B	Branched; 3 brks	4
Sambucus nigra	Elder	60-80	1+1	B	Branched; 3 brks	10
Sorbus aucuparia	Rowan	60-80	1+1	B	3 brks	4
Ulmus glabra	Wych Elm	60-80	1+1	B	3 brks	2
Viburnum opulus	Guelder rose	60-80	1+2	B	Branched; 3 brks	4
					%	100

KEY

- EXTENT OF WORKS
- AREA COVERED BY SEPARATE PLANNING APPLICATION
- SHEET OVERLAP

PROPOSED

- AMENITY GRASS MIX (EM1)
- AGRICULTURAL GRASS MIX (ESG3)
- WETLAND GRASS MIX (EM8)
- HEDGEROW
- TREE
- STANDARD WOODLAND MIX
- SCRUB
- DEER PROOF FENCE
- 1.4M STOCK PROOF FENCE
- 1.4M POST AND RAIL FENCE
- 1.8M WELD MESH FENCE
- 1.8M PALISADE FENCE
- 2.4M PALISADE FENCE
- LIGHTING COLUMN

EXISTING

- TREE, CATEGORY A
- TREE, CATEGORY B
- TREE, CATEGORY C
- TREE, CATEGORY U
- ROOT PROTECTION AREA
- TREE GROUP, CATEGORY A
- TREE GROUP, CATEGORY B
- TREE GROUP, CATEGORY C
- PUBLIC RIGHT OF WAY

N

0 20 40 60 80 100m

SCALE 1:1000

Rev	Date	Description of Revisions	Dsnd	Chkd	Appr
A01	14/10/20	FOR PLANNING	J.S.	M.I.	M.P.

Status: SHARED - for Information
Suitability: S2

EWR Alliance
Connecting People

Project
East West Rail
(Western Section)
Phase 2

Drawing Title
TWAO PLANNING
CONDITION 7
CHARBRIDGE LANE (OXD/36AA)
LANDSCAPE G.A

Designed	Jack Skellern	Signed	J. Skellern	Date	13/10/20
Drawn	Rhiannon Pierce	Signed	R. Pierce	Date	29/04/20
Checked	Mark Inglis	Signed	M. Inglis	Date	13/10/20
Approved	Mike Podmore	Signed	M. Podmore	Date	13/10/20

Scale(s): 1:1000
ELR - Project Chainage (Miles Yards): OXD - 108900
Design Package Risk Classification: Normal
Sheet: 1 of 1
Alternative Reference
Revision: A01
Drawing Number: 133735_2A-EWR-OXD-XX-DR-L-011100

Sheet Size A1 594 x 841