

For Continuation See Drawing WN-DCAI-012

For Continuation See Drawing WN-DCAI-010

SAFETY HEALTH AND ENVIRONMENT INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING SIGNIFICANT RESIDUAL RISKS:-

CONSTRUCTION

- 132kV buried cables
- LV / HV cables running across creek near old bridge abutments
- Potentially unstable flood wall
- Concrete jetty structurally defective

ENVIRONMENTAL

- Japanese Knotweed present near site boundary
- Buried pumped sewage main crossing creek by old bridge abutments

MAINTENANCE/CLEANING/OPERATION

- Falls into deep mud
- Fast flowing water & changing water levels

DECOMMISSIONING/DEMOLITION

Planting Schedule: Dartford Creek

All plants: to be of local provenance and source of supply approved by landscape architect; should be planted in winter (Nov - Feb)

Trees:	Size (dirth em)	Type	Form	Overall Height	Clear stem	Girth at 1m	Total No.
Betula pubescens (silver birch)	10-12	RB	standard	3.00 - 3.50m	200cm	10-12cm	12
Salix fragilis (Crack willow)		BR	feathered	175-200mm			6

Marginal Planting:	Size	%	Density No./m ²	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Total No.
Phragmites australis (common reed)	7cm root trainers	100	7/m ²	Area 1: 109m ²	Area 2: 544m ²	Area 3: 351m ²	Area 4: 288m ²	Area 5: 183m ²	Area 6: 124m ²	11193
				763	3808	2457	2016	1281	868	

Climbers Mix:	Size	Type	Overall Height	Density No./L m	% of Mix	Quantity
Hedera helix (ivy)	2L	CG	750cm	2/ linear m	50%	141
Lonicera periclymenum (honeysuckle)	2L	CG	750cm	2/ linear m	50%	141

Grass Seed Mix:

Supplier: Must be of local provenance source of supply to be approved by Landscape Architect.

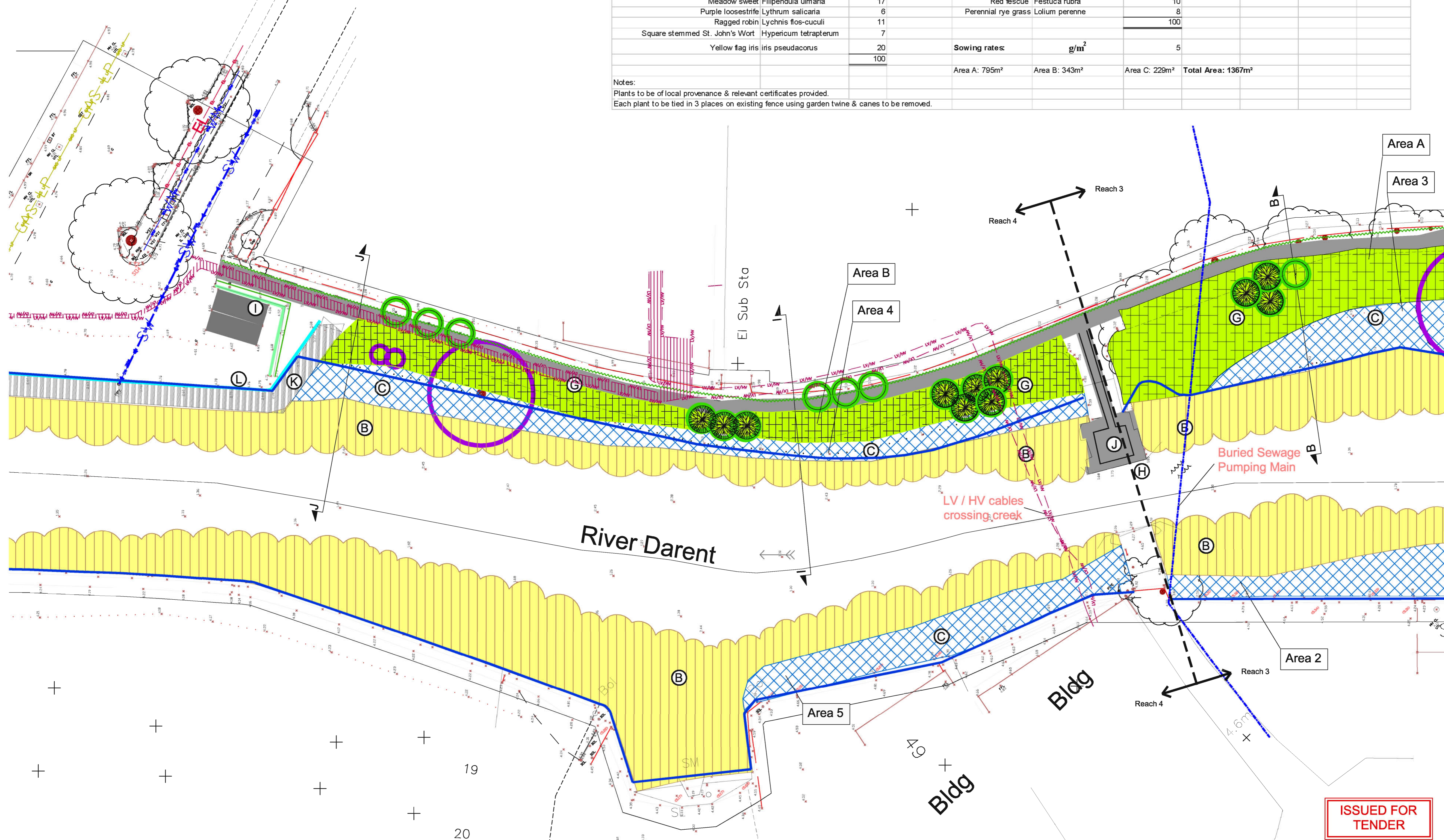
Seed mix: Wildflower Mixture (20% Flowers 80% Grasses) MODIFIED to include Species:

Wild Flowers: 1 part 20%			Grasses: 4 parts 80%		
Common name	Species	%	Common name	Species	%
Common fleabane	Pulicaria dysenterica	4	Crested dogstail	Cynosurus cristatus	18
Gypsy wort	Lycopus europaeus	8	Meadow foxtail	Alopecurus pratensis	9
Greater birdfoot trefoil	Lotus uliginosus	8	Rough meadow grass	Poa trivialis	7
Hemp agrimony	Eupatorium cannabinum	5	Sheeps fescue	Festuca ovina	32
Marsh marigold	Caltha palustris	4	Sweet vernal	Anthoxanthum odoratum	4
Marsh woundwort	Stachys palustris	10	Tufted hairgrass	Eschschamia caespitosa	12
Meadow sweet	Filipendula ulmaria	17	Red fescue	Festuca rubra	10
Purple loosestrife	Lythrum salicaria	6	Perennial rye grass	Lolium perenne	8
Ragged robin	Lychnis flos-cuculi	11			100
Square stemmed St. John's Wort	Hypericum tetrapetrum	7			
Yellow flag iris	iris pseudacorus	20			
		100			

Sowing rates: g/m² 5

Area A: 795m² Area B: 343m² Area C: 229m² Total Area: 1367m²

Notes:
Plants to be of local provenance & relevant certificates provided.
Each plant to be tied in 3 places on existing fence using garden twine & canes to be removed.



- Notes**
1. Precautionary approach to be taken to trees being felled. Any potential bat habitat (eg. trees with fissures, cracks, dense ivy) should be inspected by an ecologist.
 2. Any vegetation potential for breeding bird habitat (especially vegetation 500mm high and above) should be inspected by an ecologist before work starts.
 3. All plants to be of local provenance, sourced locally with all relevant certificates provided.
 4. Planting and Other Landscaping Works to be maintained in accordance with section 3 of the particular landscape specification

- Key**
- (A) Not used
 - (B) Retain existing mud flats on east bank
 - (C) Brushwood revetment with common reed
 - (D) (E) (F) Not used
 - (G) Wildflower mix at top of bank
 - (H) Old timber fendering to be removed - care not to disturb sewage pumping main
 - (I) Storage containers and wall relocated or wall clad and screened
 - (J) Old Bridge abutment to be cleared. Remove old timber fenders. Supply & install handrailing
 - (K) Raised walkway: Sheet pile in front of existing flood wall & infill between sheet piling & flood wall (AZ28 toe depth -6.4m)
 - (L) Proposed Flood parapet wall
- Raised walkway
 - Concrete platform/jetty to be removed
 - Wildflower mix
 - Tidy up area (general maintenance)
 - Brushwood revetment planted with common reed
 - Bank reprofiled
 - Existing mud flats retained
 - Existing concrete flood wall retained
 - Existing path
 - Proposed tree planting (Crack willow)
 - Proposed tree planting (Silver birch)
 - Trees to be removed
 - Trees to be retained

Handrailing

A	MVH	AT	RS	29/07/09	ISSUED FOR TENDER
Rev	By	Chkd	Apprvd	Date	Description

Client: **SEEDA** SOUTH EAST ENGLAND DEVELOPMENT AGENCY
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Project: **Dartford Creek Access Improvements**

Drawing: **Landscaping Design General Arrangement Sheet 2 of 3**

Drawn by: MVH Date: 30-01-09
Checked by: DN Date: 31-01-09
Approved by: RS Date: 30-01-09

Drawing No.	Revision
WNDCAI-011	A

Drawing Scale: 1:250 @ A1 - 1:500 @ A3

ISSUED FOR TENDER