N

Location of root wad revetment.

1254m² proposed native woodland planting of 1+1 transplants over area of rootwad revetements.
Species include:
Oak *Quercus robur* 5%
Alder Alnus glutinosa 10%
Silver Birch *Betula pendula* 5%
Downey Birch Betula pubescens 10%
Bird Cherry Prunus padus 5%
Rowan *Sorbus aucuparia* 5%
Goat Willow *Salix caprea* 10%
Grey Willow *Salix cinerea* 10%
Hazel *Corylus avellana* 15%
Blackthorn *Prunus spinosa* 5%
Hawthorn Crataegus monogyna 10%
Alder Buckthorn Frangula alnus 5%
Holly *Illex aquifolium* 5%

Proposed swale seed mix. Species to include:
Creeping Red Fescue *Festuca rubra*(70%), Smooth Stalked Meadow Grass *Poa pretensis*(20%), Creeping Bent *Agrostis stolonifera* (10%)

Proposed native tree planting of 18-20cm girth standard trees .
Species mix to include:
Wild Cherry *Prunus avium*

Proposed native instant hedgerow planting of 1m high specimens. Species to include:
Hawthorn *Crategus monogyna*

Proposed native tree planting of 10-12cm girth standard trees .
Species mix to include:
Sorbus aucuparia

Proposed native instant hedgerow planting of 1.5m high specimens. Species to include:
Beech *Fagus sylvatica*

Proposed native instant hedgerow planting of 1.5m high specimens. Species to include:
Fagus sylvatica 1.5m

Proposed native instant hedgerow planting of 1.5m high specimens. Species to include:
Fagus sylvatica 1.5m

Indicative loction of existing footpath.

STRUCTURES KEY

- Proposed flood wall with agreed finish and coping
- Proposed bund (with impermeable core where required)
- Proposed fenceline
- Proposed gate access
- Proposed pedestrian / vehicle access ramp
- Proposed access stairs
- Proposed low level wall for Boulevard ramped footpath

NOTE
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- 119398/400/381 to 119398/400/391 Trees to be Retained and Removed Drawings
- 119398/400/350 to 119398/400/360 Outline Landscape Proposals
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- Due to the uncertain nature of tree root zones, the status of existing trees as indicated on this plan may be altered during the development of the design and method to construct the operations in agreement with Perth & Kinross Council.

0 10 20 30 40 50 60 70 80 90 100

NOTES

KEY

- EIA study area
- Existing tree to be retained (surveyed)
- Existing tree to be retained if possible (surveyed)
- Existing woodland and trees to be retained (not surveyed)
- Existing amenity grass to be made good as required
- Woodland floor. Areas disturbed during construction managed to naturally regenerate.
- Proposed native woodland planting - 1+1 transplants planted at 2m centres
- Proposed native feather form tree height 175-200cm
- Proposed native feather form tree girth 10-12cm, height 300-350cm
- Proposed native feather form extra-heavy tree girth 14-16cm, height 425-600cm
- Proposed native extra heavy standard tree girth 18-20cm, height 450-500cm
- Proposed native semi-mature standard tree girth 20-25cm, height 500-550cm
- Proposed native wildflower riverbank seeding
- Proposed ornamental shrub and herbaceous planting.
- Proposed pre-established wildflower coir rolls.
- Proposed embankment seed mix
- Proposed swale seed mix
- Indicative areas within gardens to be reinstated
- Proposed path with bound surface treatment
- Proposed footpath with unbound compacted whin dust surface treatment
- Existing areas of grassland / agricultural land to be retained. Areas disturbed during construction to be reinstated.
- Area where landscape details are to be provided at detailed design stage.
- Location of root wad revetment

Note:
All proposed tree planting is to be protected from grazing. 1.8m high rabbit, deer and beaver proof fencing is to be erected around all areas of woodland transplant planting. Individual trees when not planted as part of a woodland transplant group, are to be protected with 1.8m high weld mesh tree guards.

Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

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Web: www.sweco.co.uk

SWECO

Client

PERTH & KINROSS COUNCIL

Drawing Status
FOR INFORMATION

Project Title
COMRIE FLOOD PROTECTION SCHEME 2020

Drawing Title
OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 4 of 10

Scale	Designed	Drawn	Checked	Approved
1:500	ED	ED	PB	PB
Original Size	Date	Date	Date	Date
A1	12/02/20	12/02/20	12/02/20	12/02/20

Drawing Number: 119398/400/354
Revision: 01

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N

Existing low wall to be removed

Proposed ornamental shrub and herbaceous planting.

Footpath retained as existing

Existing low wall to be rebuilt with handrail

Steps to be realigned

Footpath to be regraded to provide DDA compliance.

Proposed 18-20cm girth extra heavy standard trees in open space to comprise:Wild Cherry *Prunus avium*

3no. proposed benches within the green space

Proposed low wall with handrail

Footpath to be regraded to provide DDA compliance.

Area to be landscaped to provide inclusive access and seating opportunities. Design information to be provided at detailed design stage

Existing footpath

New footpath to tie into the existing footpath

Proposed embankment seed mix. Species to include: Creeping Red Fescue *Festuca rubra*(75%), Smooth Stalked Meadow Grass *Poa pretensis*(15%), Hard Fesuce *Festuca ovina*(10%)

Existing Track

Proposed footpath with compacted Whin dust surface treatment.

Location of root wad revetment.

Proposed native woodland planting 1+1 transplants over area of rootwad revetements. Species to include:
Oak *Quercus robur* 5%
Alder Alnus glutinosa 10%
Silver Birch *Betula pendula* 5%
Downey Birch Betula pubescens 10%
Bird Cherry Prunus padus 5%
Rowan *Sorbus aucuparia* 5%
Goat Willow *Salix caprea* 10%
Grey Willow *Salix cinerea* 10%
Hazel *Corylus avellana* 15%
Blackthorn *Prunus spinosa* 5%
Hawthorn Crataegus monogyna 10%
Alder Buckthorn Frangula alnus 5%
Holly *Illex aquifolium* 5%

Otter holt to be included within area of root wad revetment (location TBC).

Proposed footpath with compacted whin dust surface treatment.

Proposed swale seed mix. Species to include: Creeping Red Fescue *Festuca rubra*(70%), Smooth Stalked Meadow Grass *Poa pretensis*(20%), Creeping Bent *Agrostis stolonifera* (10%)

383m² proposed native woodland planting of 1+1 transplants. Species to include:
Oak *Quercus robur* 5%
Alder Alnus glutinosa 10%
Silver Birch *Betula pendula* 5%
Downey Birch Betula pubescens 10%
Bird Cherry Prunus padus 5%
Rowan *Sorbus aucuparia* 5%
Goat Willow *Salix caprea* 10%
Grey Willow *Salix cinerea* 10%
Hazel *Corylus avellana* 15%
Blackthorn *Prunus spinosa* 5%
Hawthorn Crataegus monogyna 10%
Alder Buckthorn Frangula alnus 5%
Holly *Illex aquifolium* 5%

Existing footpath indicatively shown.

STRUCTURES KEY

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- Proposed native feather form tree height 175-200cm
- Proposed native feather form tree girth 10-12cm, height 300-350cm
- Proposed native feather form extra-heavy tree girth 14-16cm, height 425-600cm
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OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 5 of 10

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Drawing Number: 119398/400/355

Revision: 01

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SCHOOL GROUNDS

Potential for a community orchard to be developed within the school grounds to include heritage fruit tree species. Details to be confirmed following consultation.

COMRIE PRIMARY SCHOOL

SCHOOL GROUNDS

STRUCTURES KEY

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OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 6 of 10

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Revision: 01

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N

Proposed native tree planting of 10-12cm girth feathered trees, native feather form trees height 175 - 200cm and 85m² proposed native woodland planting of 1+1 transplants. Species to include:
Scots Pine *Pinus sylvestris* 10%
Oak *Quercus robur 10%*
Alder Alnus glutinosa 15%
Silver Birch Betula *pendula* 5%
Downey Birch *Betula pubescens* 10%
Bird Cherry *Prunus padus* 5%
Goat Willow Salix caprea 5%
Grey Willow *Salix cinerea* 5%
Hazel *Corylus avellana* 15%
Guelder Rose *Viburnum opulus* 5%
Alder Buckthorn Frangula alnus 5%
Wych Elm *Ulmus glabra* 5%
Holly *Illex aquifolium* 5%

Proposed native tree planting of 14-16cm girth feathered extra heavy trees, native feather form tree height 175 - 200cm and 134m² proposed native woodland planting of 1+1 transplants.
Species to include:
Oak *Quercus robur* 10%
Alder Alnus glutinosa 15%
Silver Birch *Betula pendula* 5%
Downey Birch *Betula pubescens* 5%
Bird Cherry *Prunus padus* 3%
Blackthorn Prunus spinosa 5%
Rowan Sorbus aucuparia 2%
Grey Willow *Salix cinerea* 10%
Goat Willow Salix caprea 5%
Alder Buckthorn Frangula alnus 2.5%
Buckthorn *Rhamnus catharticus* 2.5%
Guelder Rose *Viburnum opulus* 5%
Hazel *Corylus avellana* 20%
Holly *Illex aquifolium* 5%
Wych Elm *Ulmus glabra* 5%

Proposed native tree planting of 18-20cm girth extra heavy standard trees, 10-12cm girth feathered trees, native feather form trees height 175-200cm and 232m² proposed native woodland planting of 1+1 transplants.
Species to include:
Scots Pine *Pinus sylvestris* 10%
Oak *Quercus robur 10%*
Alder Alnus glutinosa 15%
Silver Birch Betula *pendula* 5%
Downey Birch *Betula pubescens* 10%
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Guelder Rose *Viburnum opulus* 5%
Alder Buckthorn Frangula alnus 5%
Wych Elm *Ulmus glabra* 5%
Holly *Illex aquifolium* 5%

Proposed storage shed

Note:
Proposed ornamental shrub and herbaceous planting species to include:
Ajuga reptans, Aquilegia vulgaris, Cytisus scoparious, Deschampsia cespitosa, Dryopteris cristata, Dryopteris felix-mas, Geranium pratense, Hamamelis mollis, Helleborus foetidus, Luzula sylvatica, Persicaria bistorta 'Superba', Polypodium vulgare, Primula veris, Rosa pimpinellifolia, Viburnum opulus compactum.

Proposed storage shed

Proposed ornamental shrub and herbaceous planting.

Existing memorial benches relocated

Existing desire line to be surfaced to create a continuation of the existing formal path

Proposed 10-12cm girth Siberian Spruce *Picea omorika*

Proposed 18-20cm and 20-25cm girth extra heavy and semi-mature standard trees in open space to include:
Wild Cherry *Prunus avium*
Rowan *Sorbus aucuparia*

Core path reinstated with Whin dust surface treatment.

Proposed native tree planting of 14-16cm girth feathered extra heavy trees Species to include:
Oak *Quercus robur*
Alder Alnus glutinosa

Proposed native tree planting of 14-16cm girth feathered extra heavy trees and 10-12cm girth .
Species mix to include:
Oak *Quercus robur*
Alder Alnus glutinosa

Location of stone revetments

Proposed 20-25cm girth semi-mature standard Alder *Alnus glutinosa* with ornamental shrub and herbaceous planting

Anti-pedestrian cobble paving providing irregular uneven surface

Proposed 20-25cm girth semi-mature standard Alder *Alnus glutinosa* with ornamental shrub and herbaceous planting

Proposed 20-25cm girth semi-mature standard Alder *Alnus glutinosa* with ornamental shrub and herbaceous planting

Area of Legion Park to be landscaped to reconfigure the entrance and provide a multi-use carpark/ events space with seating and planting. Design information to be provided at detailed design stage.

Existing Dalginross bridge wall

Proposed Riverside Wildflower Seed Mix

Scotia Seeds Wet Meadow Mix or similar approved. Species include the following:

Wildflowers:

Achillea ptarmica, Centaurea migra, Cirsium palustre, Filipendula ulmaria, Geranium pratense, Geum rivale, Hypericum tetrapterum, Hypochaeris radicata, Iris psuedacorus, Leucanthemum vulgare, Lotus uliginosus, Plantago lanceolata, Prunella vulgaris, Ranunculus acris, Rhinanthus minor, Rumex acetosa, Scorsoneroides autumnalis, Silene flos-cuculi, Succisa pratensis.

Grasses:

Agrostis capillaris, Alopecurus pratensis, Carex ovalis, Juncus articulatus, Juncus squarrosus, Deschampsia cespitosa, Festuca rubra ssp. commutata, Poa pratensis.

STRUCTURES KEY

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- Proposed gate access
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- Proposed access stairs
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- Proposed native feather form extra-heavy tree girth 14-16cm, height 425-600cm
- Proposed native extra heavy standard tree girth 18-20cm, height 450-500cm
- Proposed native semi-mature standard tree girth 20-25cm, height 500-550cm
- Proposed native wildflower riverbank seeding
- Proposed ornamental shrub and herbaceous planting.
- Proposed pre-established wildflower coir rolls.
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- Location of root wad revetment

Note:
All proposed tree planting is to be protected from grazing. 1.8m high rabbit, deer and beaver proof fencing is to be erected around all areas of woodland transplant planting. Individual trees when not planted as part of a woodland transplant group, are to be protected with 1.8m high weld mesh tree guards.

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Drawing Title

OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 7 of 10

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0 10 20 30 40 50 60 70 80 90 100

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N

Proposed native tree planting of 20-25cm girth semi-mature Alders *Alnus glutinosa*.

Amenity grass to be reinstated as required.

Proposed native tree planting of feather trees of 175-200cm
Species to include:
Alder *Alnus glutinosa* 80%
Bird Cherry *Prunus padus* 10%
Goat Willow *Salix caprea* 10%

Indicative areas of garden to be landscaped following construction shown in grey.

Proposed native tree planting of 18-20cm girth extra heavy standard trees.
Species to include:
Scots Pine *Pinus sylvestris*
Alder Alnus glutinosa

Proposed native tree planting of 14-16cm girth feathered extra heavy trees, native feather form tree height 175-200cm and 140m² proposed native woodland planting of 1+1 transplants. Species to include:
Oak *Quercus robur* 10%
Alder Alnus glutinosa 15%
Silver Birch *Betula pendula* 5%
Downey Birch *Betula pubescens* 5%
Bird Cherry *Prunus padus* 3%
Blackthorn Prunus spinosa 5%
Rowan Sorbus aucuparia 2%
Grey Willow *Salix cinerea* 10%
Goat Willow Salix caprea 5%
Alder Buckthorn Frangula alnus 2.5%
Buckthorn *Rhamnus catharticus* 2.5%
Guelder Rose *Viburnum opulus* 5%
Hazel *Corylus avellana* 20%
Holly *Illex aquifolium* 5%
Wych Elm *Ulmus glabra* 5%

Proposed native tree planting of 14-16cm girth feathered extra heavy trees, native feather form tree height 175 - 200cm and 134m² proposed native woodland planting of 1+1 transplants.
Species to include:
Oak *Quercus robur* 10%
Alder Alnus glutinosa 15%
Silver Birch *Betula pendula* 5%
Downey Birch *Betula pubescens* 5%
Bird Cherry *Prunus padus* 3%
Blackthorn Prunus spinosa 5%
Rowan Sorbus aucuparia 2%
Grey Willow *Salix cinerea* 10%
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Buckthorn *Rhamnus catharticus* 2.5%
Guelder Rose *Viburnum opulus* 5%
Hazel *Corylus avellana* 20%
Holly *Illex aquifolium* 5%
Wych Elm *Ulmus glabra* 5%

Proposed pre-established coir wildflower roll wall pinned to bank for erosion protection and to introduce native riverside vegetation . Proposed pre-established wildflower coir rolls. Species to include:
Fools Watercress *Apium nodiflorum*, Water Plantain *Alisma plantago-aquatica*, Lesser Pond Sedge *Carex acutiformis*, Blue Sedge *Carex flacca*, Marsh Marigold *Caltha palustris*, Sweet Reed Grass *Glyceria maxima*, Yellow Flag Iris *Iris pseudacorus*, Soft Rush *Juncus effuses*, Gypsywort *Lycopus europaeus*, Purple Loosestrife *Lythrum salicaria*, Water Forget Me Not *Myosotis scorpioides*, Water Mint *Mentha aquatica*, Reed Canary Grass *Phalaris arundinacea*, Lesser Spearwort *Ranunculus flammula*, Common Club Rush *Schoenoplectus lacustris*

2662m² proposed native woodland planting of 1+1 transplants.
Species include:
Oak *Quercus robur* 15%
Alder Alnus glutinosa 10%
Silver Birch *Betula pendula* 2.5%
Downey Birch *Betula pubescens* 7.5%
Bird Cherry *Prunus padus* 5%
Blackthorn Prunus spinosa 5%
Rowan Sorbus aucuparia 5%
Goat Willow *Salix caprea* 5%
Alder Buckthorn Frangula alnus 2.5%
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Guelder Rose *Viburnum opulus* 10%
Hawthorn *Crataegus monogyna* 10%
Hazel *Corylus avellana* 10%
Holly *Illex aquifolium* 5%
Wych Elm *Ulmus glabra* 5%

Proposed embankment seed mix. Species to include:
Creeping Red Fescue *Festuca rubra*(75%), Smooth Stalked Meadow Grass *Poa pretensis*(15%), Hard Fesuce *Festuca ovina*(10%)

0 10 20 30 40 50 60 70 80 90 100

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- 119398/400/381 to 119398/400/391 Trees to be Retained and Removed Drawings
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KEY

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- Existing amenity grass to be made good as required
- Woodland floor. Areas disturbed during construction managed to naturally regenerate.
- Proposed native woodland planting - 1+1 transplants planted at 2m centres
- Proposed native feather form tree height 175-200cm
- Proposed native feather form tree girth 10-12cm, height 300-350cm
- Proposed native feather form extra-heavy tree girth 14-16cm, height 425-600cm
- Proposed native extra heavy standard tree girth 18-20cm, height 450-500cm
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- Proposed native wildflower riverbank seeding
- Proposed ornamental shrub and herbaceous planting.
- Proposed pre-established wildflower coir rolls.
- Proposed embankment seed mix
- Proposed swale seed mix
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- Location of root wad revetment

Note:
All proposed tree planting is to be protected from grazing. 1.8m high rabbit, deer and beaver proof fencing is to be erected around all areas of woodland transplant planting. Individual trees when not planted as part of a woodland transplant group, are to be protected with 1.8m high weld mesh tree guards.

Rev.	Date	Amendment Details	Drawn	Chk'd	App'd

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SWECO

Client

PERTH & KINROSS COUNCIL

Drawing Status

FOR INFORMATION

Project Title

COMRIE FLOOD PROTECTION SCHEME 2020

Drawing Title

OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 8 of 10

Scale	Designed	Drawn	Checked	Approved
1:500	ED	ED	PB	PB
Original Size	Date	Date	Date	Date
A1	12/02/20	12/02/20	12/02/20	12/02/20

Drawing Number: 119398/400/358
Revision: 01

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Proposed native tree planting of 14-16cm girth feathered extra heavy trees, native feather form tree height 175-200cm and 1140m² proposed native woodland planting of 1+1 transplants. Species to include:
Oak *Quercus robur* 10%
Alder Alnus glutinosa 15%
Silver Birch *Betula pendula* 5%
Downey Birch *Betula pubescens* 5%
Bird Cherry *Prunus padus* 3%
Blackthorn Prunus spinosa 5%
Rowan Sorbus aucuparia 2%
Grey Willow *Salix cinerea* 10%
Goat Willow Salix caprea 5%
Alder Buckthorn Frangula alnus 2.5%
Buckthorn *Rhamnus catharticus* 2.5%
Guelder Rose *Viburnum opulus* 5%
Hazel *Corylus avellana* 20%
Holly *Illex aquifolium* 5%
Wych Elm *Ulmus glabra* 5%

Proposed pre-established coir wildflower roll wall pinned to bank for erosion protection and to introduce native riverside vegetation . Proposed pre-established wildflower coir rolls. Species to include:

Fools Watercress *Apium nodiflorum*, Water Plantain *Alisma plantago-aquatica*, Lesser Pond Sedge *Carex acutiformis*, Blue Sedge *Carex flacca*, Marsh Marigold *Caltha palustris*, Sweet Reed Grass *Glyceria maxima*, Yellow Flag Iris *Iris pseudacorus*, Soft Rush *Juncus effuses*, Gypsywort *Lycopus europaeus*, Purple Loosestrife *Lythrum salicaria*, Water Forget Me Not *Myosotis scorpioides*, Water Mint *Mentha aquatica*, Reed Canary Grass *Phalaris arundinacea*, Lesser Spearwort *Ranunculus flammula*, Common Club Rush *Schoenoplectus lacustris*

2662m² proposed native woodland planting of 1+1 transplants.
Species include:
Oak *Quercus robur* 15%
Alder Alnus glutinosa 10%
Silver Birch *Betula pendula* 2.5%
Downey Birch *Betula pubescens* 7.5%
Bird Cherry *Prunus padus* 5%
Blackthorn Prunus spinosa 5%
Rowan Sorbus aucuparia 5%
Goat Willow *Salix caprea* 5%
Alder Buckthorn Frangula alnus 2.5%
Buckthorn *Rhamnus catharticus* 2.5%
Guelder Rose *Viburnum opulus* 10%
Hawthorn *Crataegus monogyna* 10%
Hazel *Corylus avellana* 10%
Holly *Illex aquifolium* 5%
Wych Elm *Ulmus glabra* 5%

Possible future play area

Proposed embankment seed mix. Species to include:
Creeping Red Fescue *Festuca rubra*(75%), Smooth Stalked Meadow Grass *Poa pretensis*(15%), Hard Fesuce *Festuca ovina*(10%)

Core path reinstated with whin dust surface treatment.

Proposed footpath with bound surface treatment.

Proposed native tree planting of 14-16cm girth feathered extra heavy. Species to include:
Oak *Quercus robur*
Alder Alnus glutinosa

Proposed native tree planting of 14-16cm girth. Species mix to include:
Oak *Quercus robur*
Scots Pine Pinus sylvestris

STRUCTURES KEY

- Proposed flood wall with agreed finish and coping
- Proposed bund (with impermeable core where required)
- Proposed fenceline
- Proposed gate access
- Proposed pedestrian / vehicle access ramp
- Proposed access stairs
- Proposed low level wall for Boulevard ramped footpath

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OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 9 of 10

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Drawing Number: 119398/400/359
Revision: 01

0 10 20 30 40 50 60 70 80 90 100

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Proposed embankment seed mix. Species to include:
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Drawing Number	Revision
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0 10 20 30 40 50 60 70 80 90 100

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