

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%
Downy 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 *Ilex 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 *Crataegus 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 location 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
Drawing to be read in conjunction with Sweco Drawings:

- 119398/400/370 to 119398/400/380 Tree Survey Drawings
- 119398/400/381 to 119398/400/391 Trees to be Retained and Removed Drawings
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- EIA study area
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- 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
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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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Client

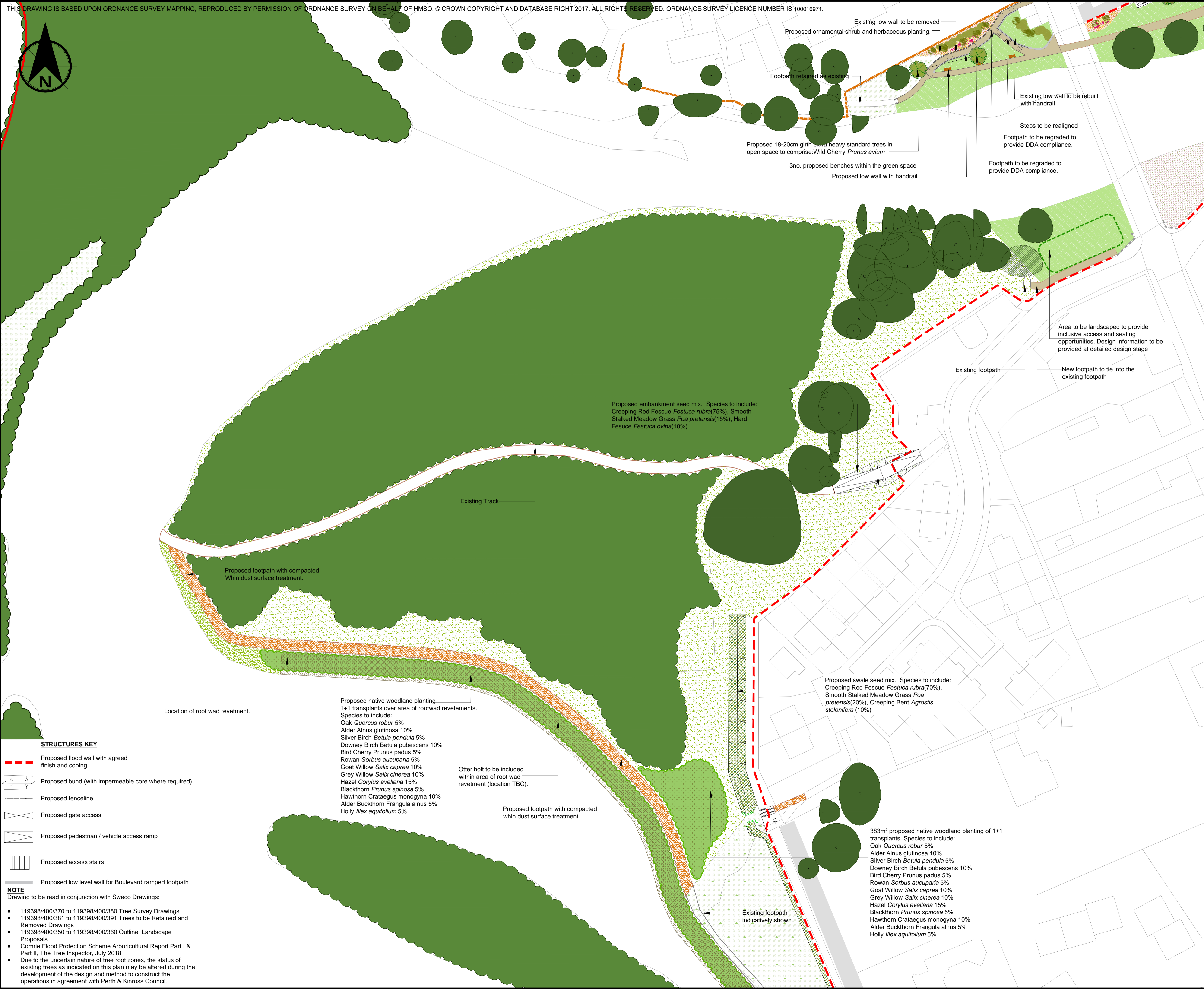
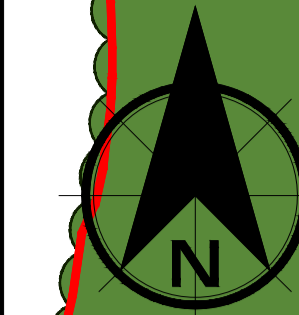
PERTH & KINROSS COUNCIL

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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Project Title **COMRIE FLOOD PROTECTION SCHEME 2020**

Drawing Title **OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 5 of 10**

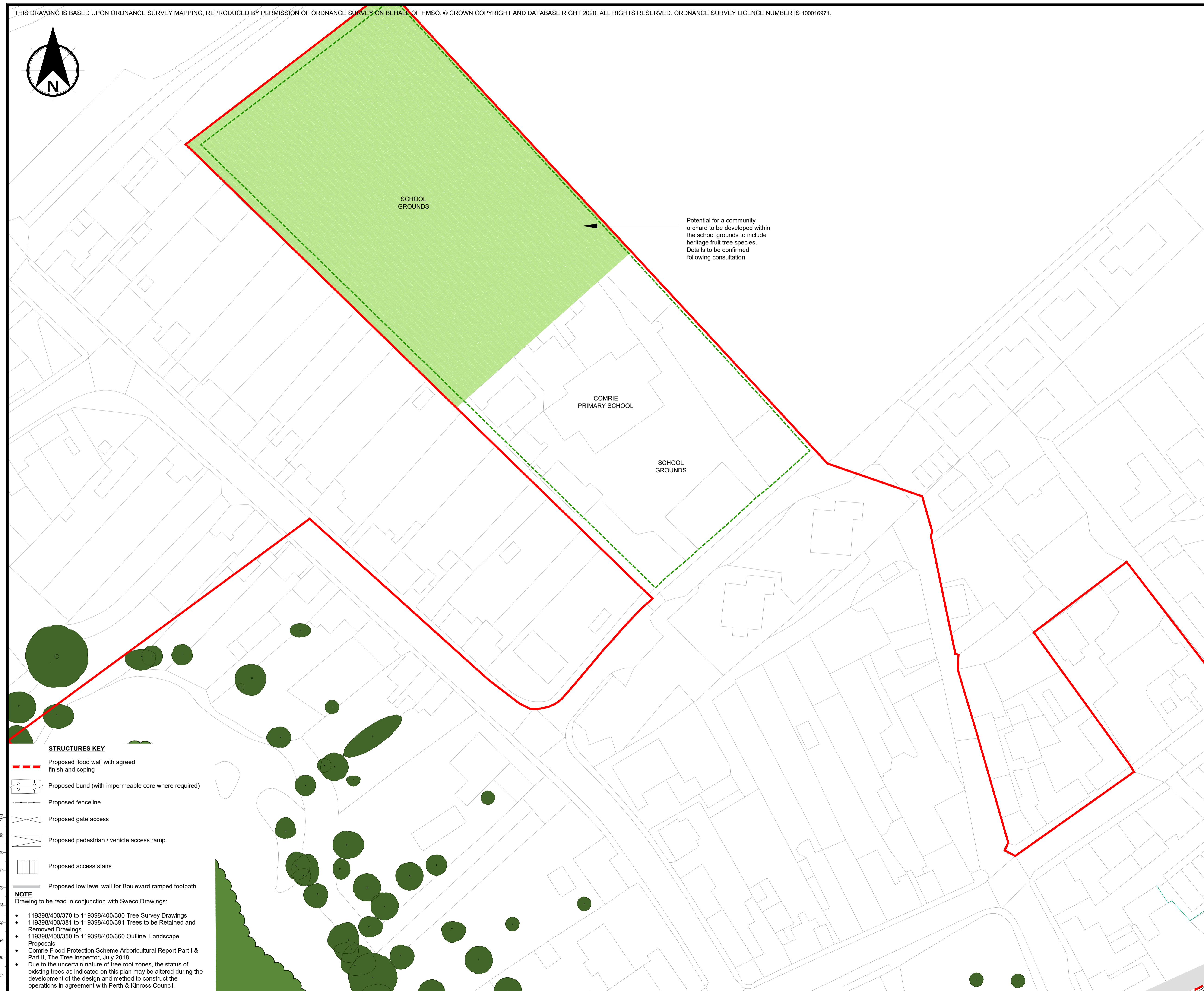
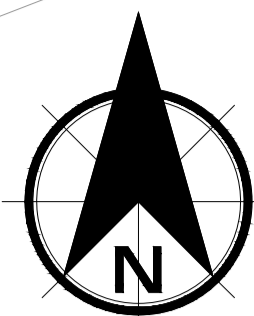
Scale	Designed	Drawn	Checked	Approved
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Original Size	Date	Date	Date	Date
A1	12/02/20	12/02/20	12/02/20	12/02/20

Drawing Number **119398/400/355** Revision **01**

- STRUCTURES KEY**
- Proposed flood wall with agreed finish and coping
 - Proposed bund (with impermeable core where required)
 - Proposed fenceline
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NOTE
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Potential for a community orchard to be developed within the school grounds to include heritage fruit tree species. Details to be confirmed following consultation.

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Drawing Title
**OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 6 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

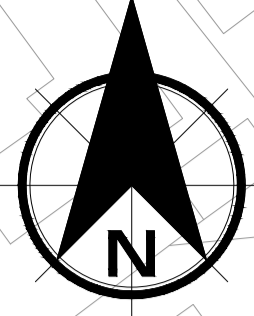
Drawing Number	Revision
119398/400/356	01

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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%
 Downy 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 *Ilex aquifolium* 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%
 Downy Birch *Betula pubescens* 10%
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 Hazel *Corylus avellana* 15%
 Guelder Rose *Viburnum opulus* 5%
 Alder Buckthorn *Frangula alnus* 5%
 Wych Elm *Ulmus glabra* 5%
 Holly *Ilex 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%
 Downy 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 *Ilex aquifolium* 5%
 Wych Elm *Ulmus glabra* 5%

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

Proposed Riverside Wildflower Seed Mix
 Scotia Seeds Wet Meadow Mix or similar approved. Species include the following:
Wildflowers:
 Achillea ptarmica, Centaurea nigra, Cirsium palustre, Filipendula ulmaria, Geranium pratense, Geum rivale, Hypericum tetrapterum, Hypochaeris radicata, Iris pseudacorus, 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.

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COMRIE FLOOD PROTECTION SCHEME 2020

Drawing Title
**OUTLINE LANDSCAPE PROPOSALS
 Layout Sheet 7 of 10**

Scale	Designed	Drawn	Checked	Approved
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A1	12/02/20	12/02/20	12/02/20	12/02/20
Drawing Number	Revision			
119398/400/357	01			

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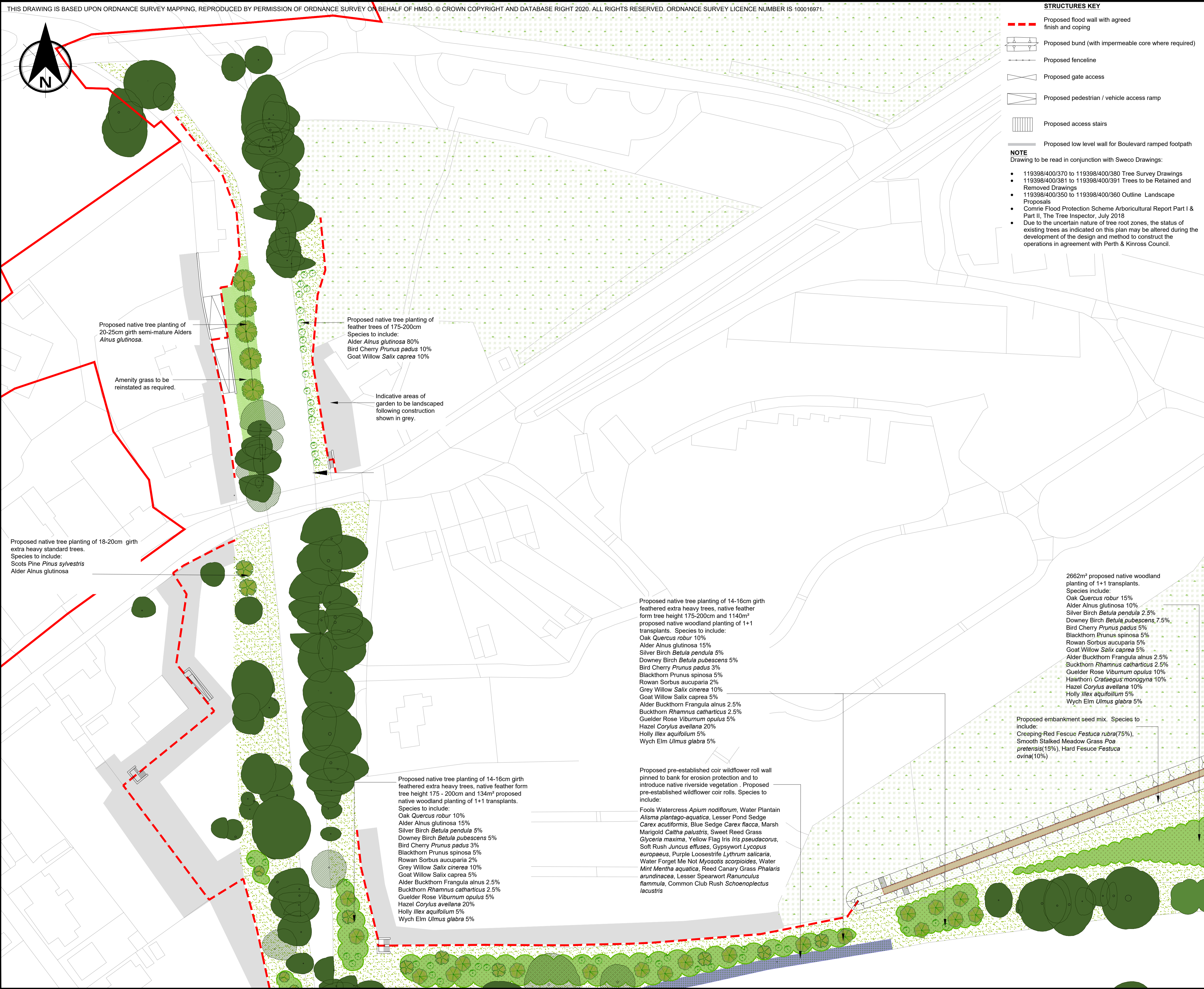
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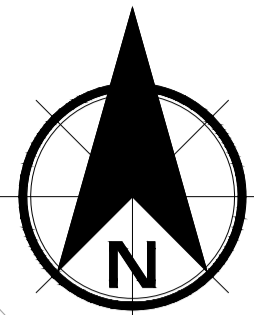
Drawing Status
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Project Title
COMRIE FLOOD PROTECTION SCHEME 2020

Drawing Title
**OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 8 of 10**

Scale	Designed	Drawn	Checked	Approved
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A1	12/02/20	12/02/20	12/02/20	12/02/20
Drawing Number	119398/400/358			Revision
				01





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 *Ilex 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:

- Foals 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 effusus*, 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%
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- Hazel *Corylus avellana* 10%
- Holly *Ilex 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 Fescue *Festuca ovina* (10%)

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*

Core path reinstated with whin dust surface treatment.

Proposed footpath with bound surface treatment.

Possible future play area

STRUCTURES KEY

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- Proposed fence line
- Proposed gate access
- Proposed pedestrian / vehicle access ramp
- Proposed access stairs
- Proposed low level wall for Boulevard ramped footpath

NOTE

- Drawing to be read in conjunction with Sweco Drawings:
- 119398/400/370 to 119398/400/380 Tree Survey Drawings
 - 119398/400/381 to 119398/400/391 Trees to be Retained and Removed Drawings
 - 119398/400/350 to 119398/400/360 Outline Landscape Proposals
 - Comrie Flood Protection Scheme Arboricultural Report Part I & Part II, The Tree Inspector, July 2018
- 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.

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 reinstated. 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

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Sweco UK Limited was commissioned. Sweco UK Limited accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. Any party which breaches the provisions of this disclaimer shall identify Sweco UK Limited for all loss or damage arising therefrom.

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Client



Drawing Status

FOR INFORMATION

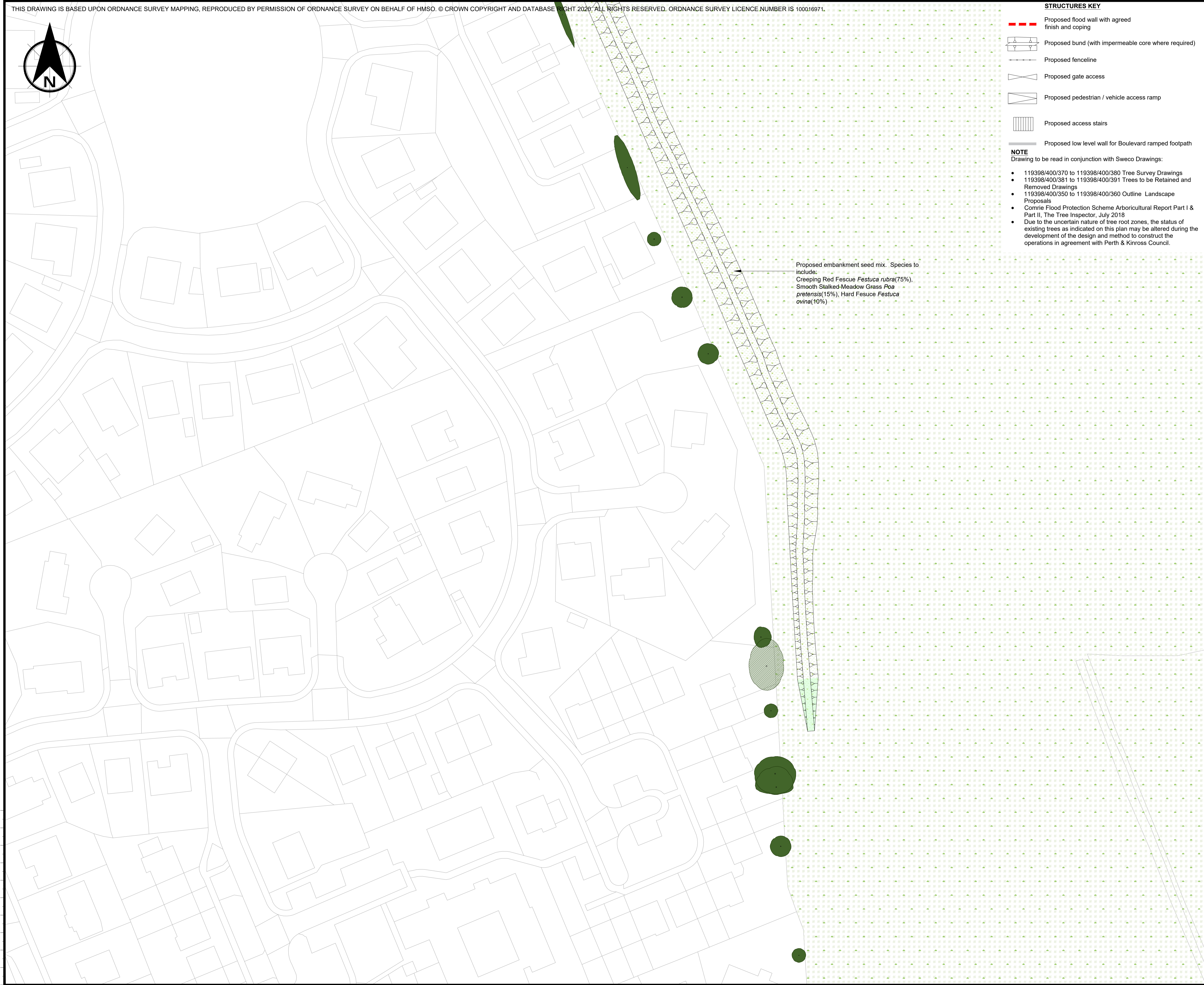
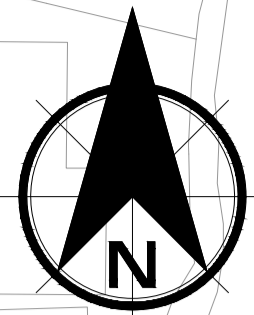
Project Title

COMRIE FLOOD PROTECTION SCHEME 2020

Drawing Title

OUTLINE LANDSCAPE PROPOSALS
Layout Sheet 9 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	Revision			
119398/400/359	01			



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

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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Client

PERTH & KINROSS COUNCIL

Drawing Status

FOR INFORMATION

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COMRIE FLOOD PROTECTION SCHEME 2020

Drawing Title

**OUTLINE LANDSCAPE PROPOSALS
 Layout Sheet 10 of 10**

Scale	Designed	Drawn	Checked	Approved
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119398/400/360	01			