

A585 Windy Harbour to Skippool Improvement Scheme

TR010035

6.19 Environmental Statement Chapter 19: Environmental Masterplan

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

Volume 6

October 2018

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Infrastructure Planning

Planning Act 2008

The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009

**A585 Windy Harbour to Skippool
Improvement Scheme**
Development Consent Order 201[]

**ENVIRONMENTAL STATEMENT CHAPTER 19:
ENVIRONMENTAL MASTERPLAN**

Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010035
Application Document Reference	TR010035/APP/6.19
Author:	A585 Windy Harbour to Skippool Improvement Scheme Project Team, Highways England

Version	Date	Status of Version
Rev 0	October 2018	DCO Submission

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Existing/Baseline

General

- Draft Order Limits
- The Scheme
- Highway Boundary Fence Line
- Embankments
- 2m Above Carriageway Level Earthwork (False Cutting/Bunds)
- Culvert
- Watercourse
- Footbridge
- Retaining Wall
- Public Right of Way (PRoW)

Existing Planning and Policy Elements

- Ramsar
- Site of Special Scientific Interest (SSSI)
- Special Protection Area (SPA)
- Conservation Area
- Listed Building

Existing Environmental Features

- Water Feature, Pond, River & Watercourse
- Woodland/copses/trees/hedgerows (outside DCO order limits)
- Woodland/copses/trees/hedgerows to be retained (within DCO order limits)
- Linear Planting
- Tree

Proposed Elements
Environmental Elements

- Noise (E1)
 - E1.2: Noise Barrier-Built Element (To be combined with Otter/Badger Fencing in locations indicated)
- Water (E2)
 - E2.4: Temporary Flood Compensation Area

Nature Conservation and Biodiversity (E3)

- E3.1: Protected Species (PS)
 - E3.1: PS - Bat Barn
 - E3.1: PS - Bird Mitigation Area
- E3.2: Ecology Protection Measures (EPM)
 - E3.2: EPM - Bat Box
 - E3.2: EPM - Bird Box
 - E3.2: EPM - Great Crested Newt Refugia
 - E3.2: EPM - Great Crested Newt Hibernacula
 - E3.2: EPM - Bee Post
 - E3.2: EPM - Reptile Hibernacula
 - E3.2: EPM - Ditch to be Managed
 - E3.2: EPM - Mammal/Badger Crossing
 - E3.2: EPM - Otter Culvert, Ledge or Dry Pipe
 - E3.2: EPM - Otter/Badger Fencing (To be combined with Highways Boundary fence or Noise Barrier in locations indicated)

Landscape Elements

- Grassland (LE1)
 - LE1.1: Amenity Grass
 - LE1.2: Grassland with Bulbs
 - LE1.3: Species Rich/Wildflower Meadow
- Planting (LE2)
 - LE2.1: Woodland
 - LE2.2: Woodland Edge
 - LE2.4: Linear Belts of Shrubs and Trees
 - LE2.5: Shrubs with Intermittent Trees
 - LE2.6: Shrubs
 - LE2.8: Scrub
- Ornamental Planting (LE3)
 - LE3.1: Amenity Tree and Shrub Planting
 - LE3.3: Groundcover

Trees (LE5)

- LE5.1: Individual Tree

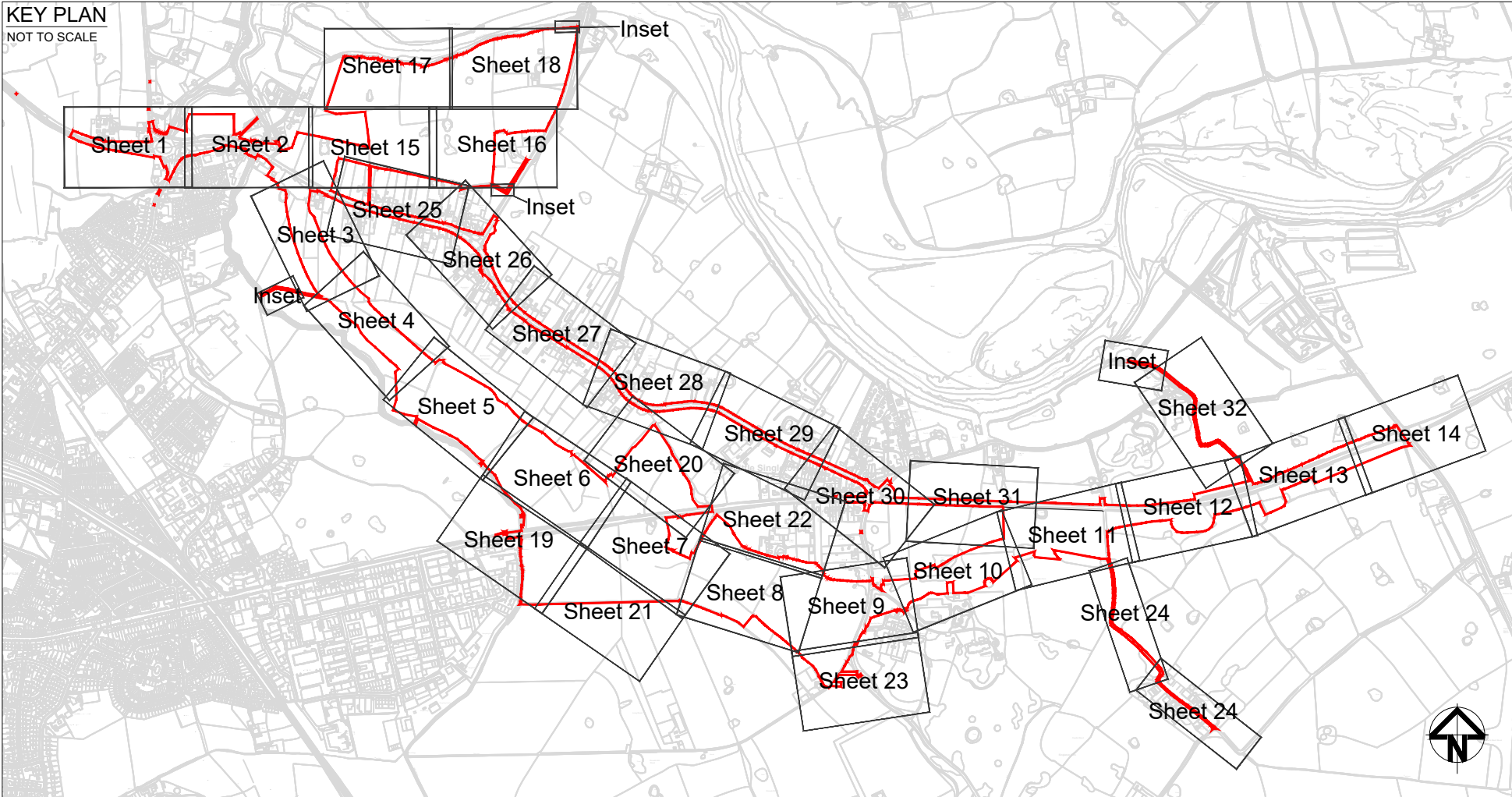
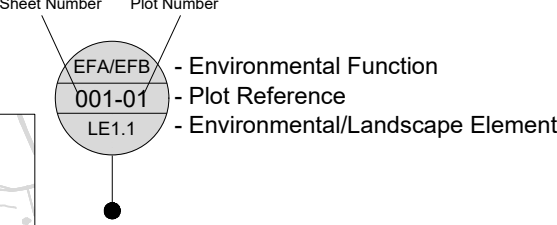
Wetland Habitats (LE6)

- LE6.1: Water Bodies and Associated Plants
- LE6.2: Banks and Ditch
- LE6.3: Reed Bed

Environmental Functions (EF)

- EFA Visual Screening
- EFB Landscape Integration
- EFC Enhancing the Built Environment
- EFD Nature Conservation and Biodiversity
- EFE Visual Amenity
- EFF Heritage
- EFG Auditory Amenity
- EFH Water Quality
- EFJ Agricultural/Highway Boundary
- EFK Access

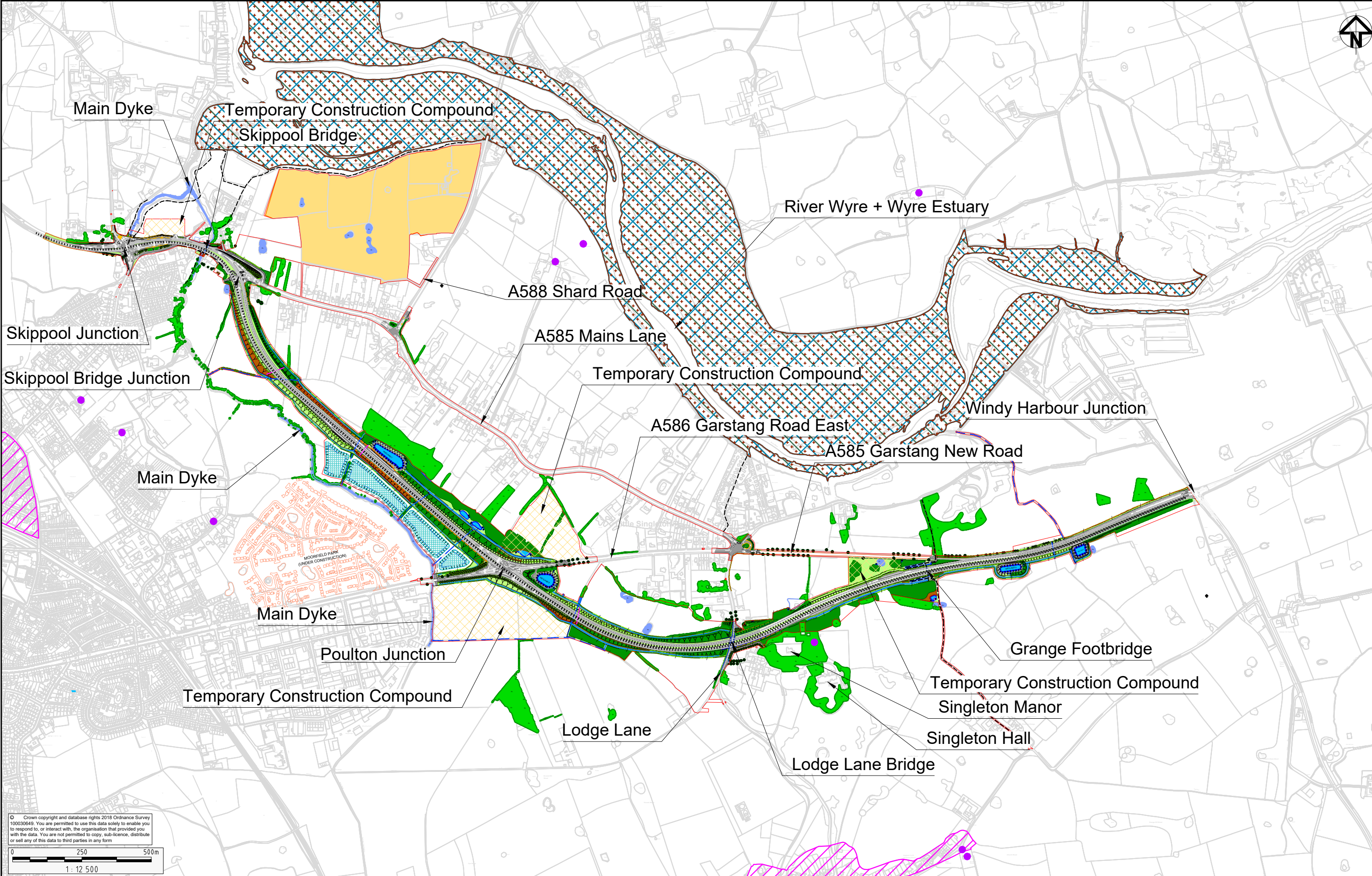
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										Checked By	A.CHESTER	
										Approved By	N.HENDERSON	
										PINS No.	TR010035	DOC 6.19
										Drawing number		
										HE548643-A585-EAC-SZ_GN_000-DR-L-3001		

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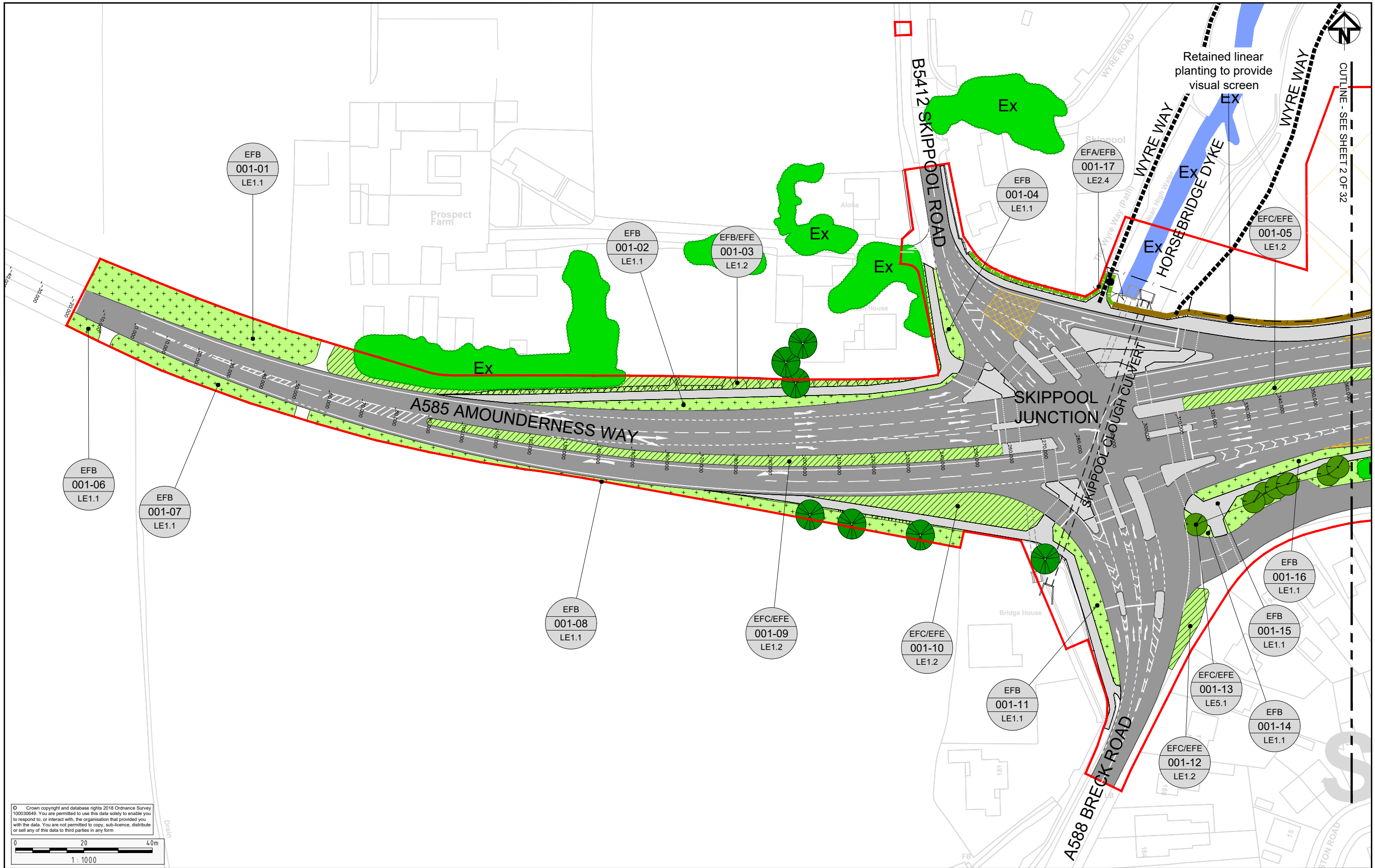
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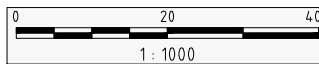
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Checked By	A.CHESTER		
Approved By	N.HENDERSON		
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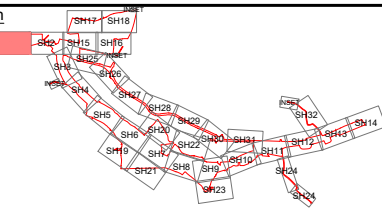


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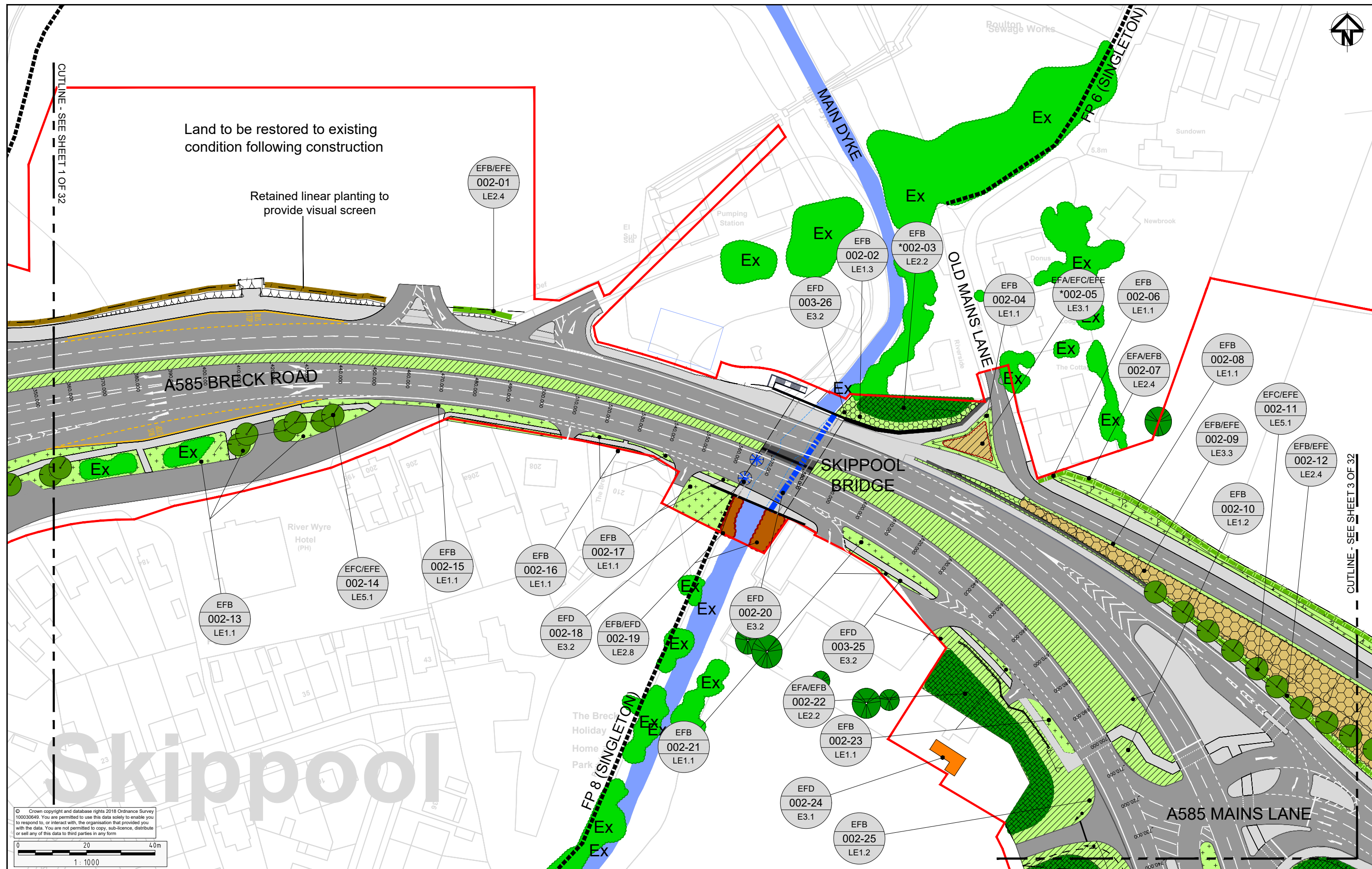
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Status S8 - DCO SUBMISSION Revision 0

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PINS No. TR010035 DOC 16.9

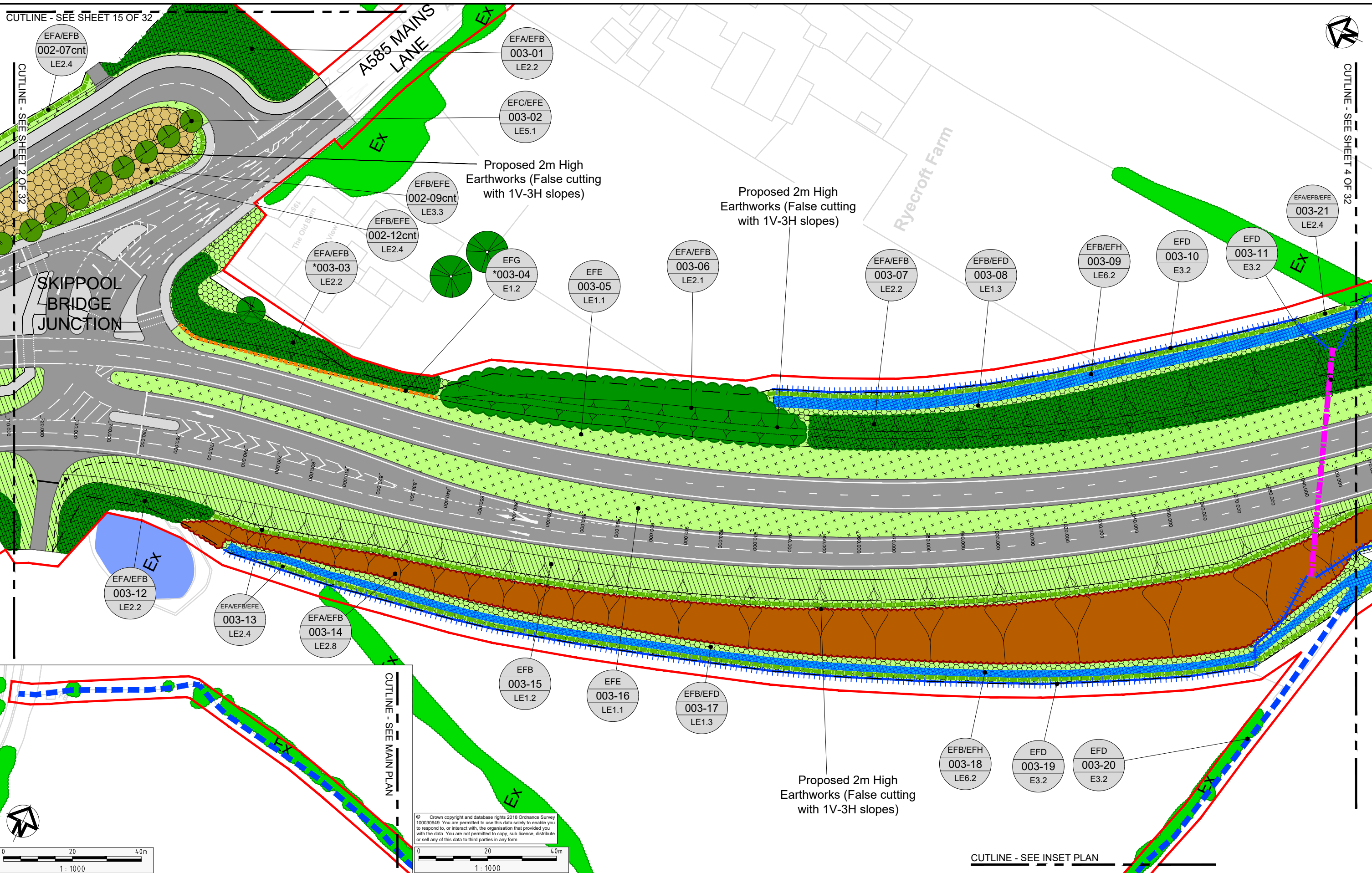
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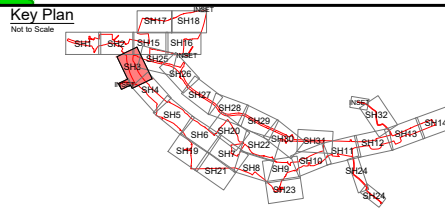
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CUTLINE - SEE SHEET 4 OF 32



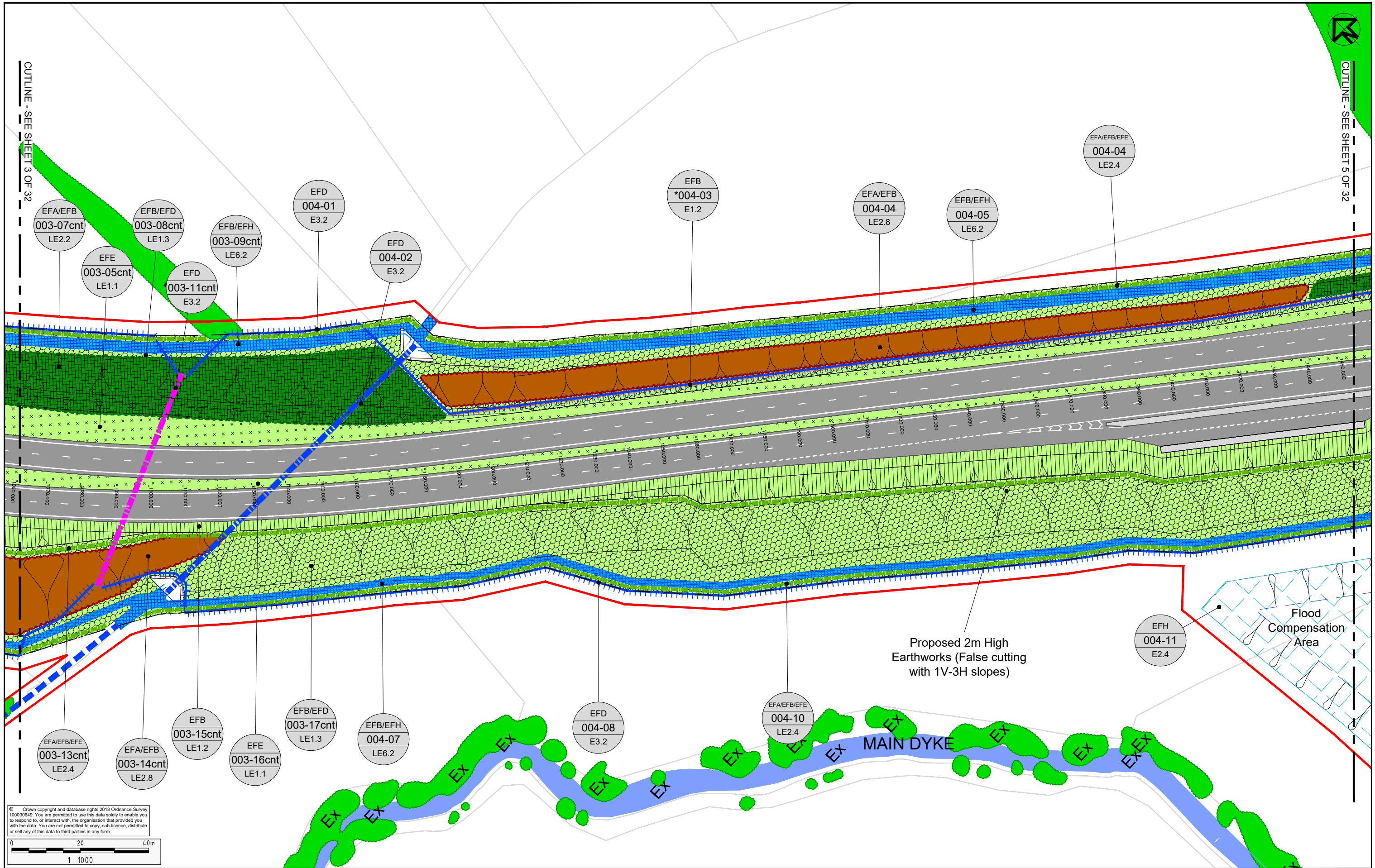
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- Notes
- *003-03: Feathered 300-350cm, Enhanced size stock to be used for all trees within this planting area.
 - *003-04: 2m High Acoustic Barrier.



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Drawing Title	ENVIRONMENTAL MASTERPLAN SHEET 3 OF 32

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Notes

- *004-03: 2m High Acoustic Barrier.

Key Plan

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highways
england

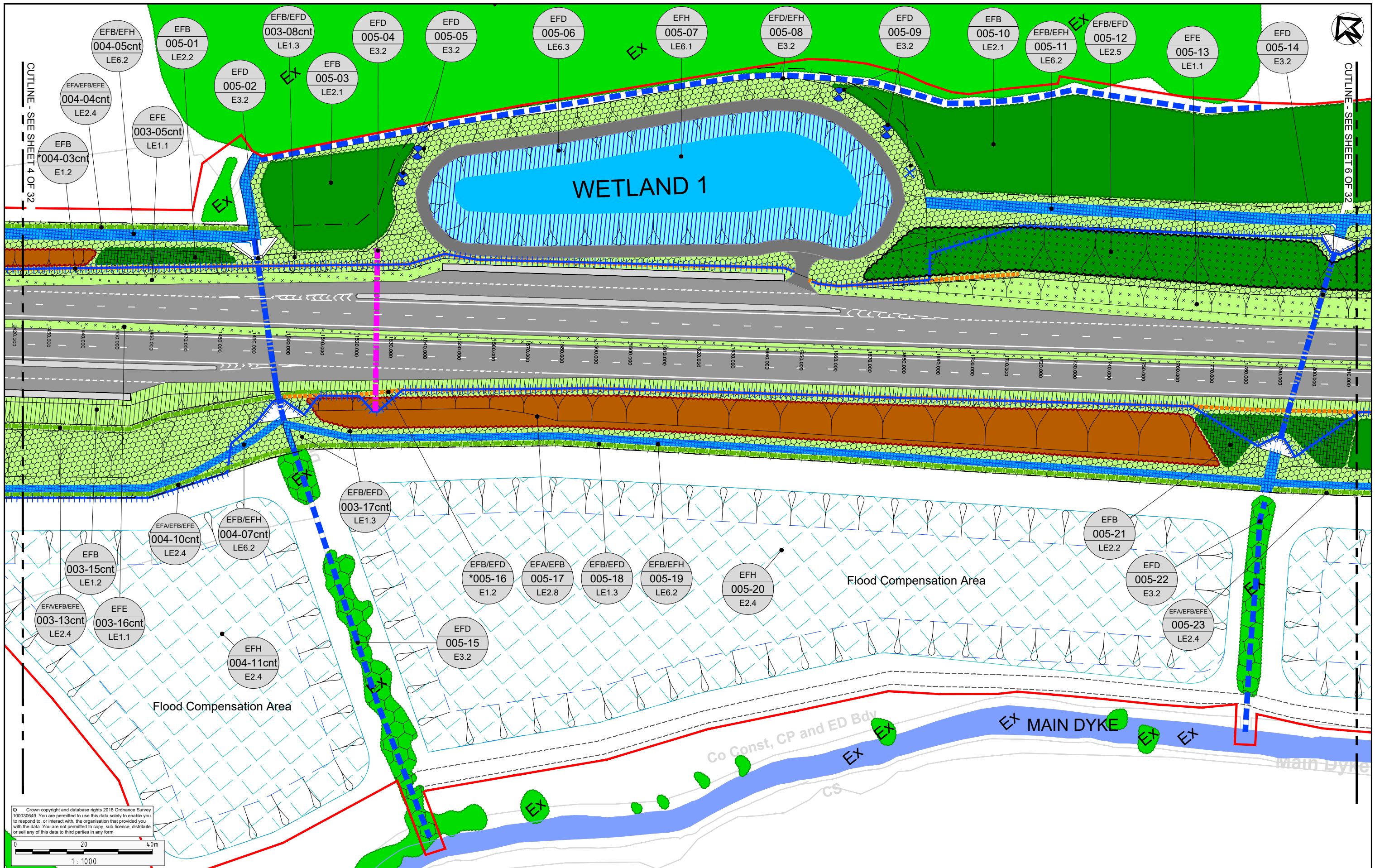
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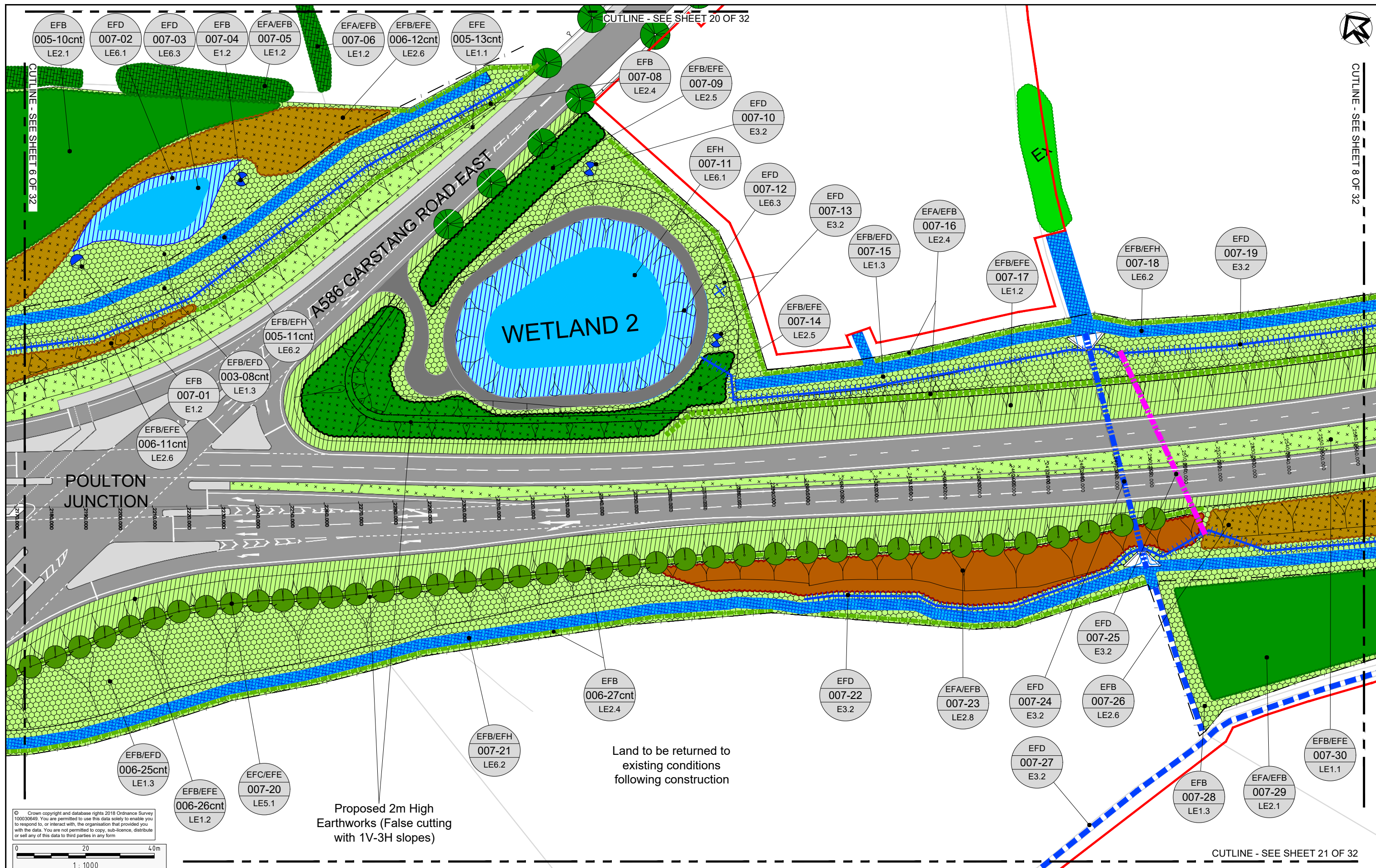
A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

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ENVIRONMENTAL MASTERPLAN
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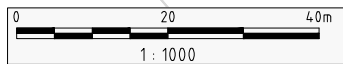
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Temporary Borrow Pit - refer to
Borrow-pits aftercare plan for post
construction detail

Proposed 2m High
Earthworks (False cutting
with 1V-3H slopes)

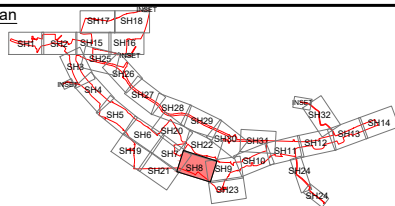
Temporary Borrow Pit - refer to
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ENVIRONMENTAL MASTERPLAN
SHEET 8 OF 32

Status
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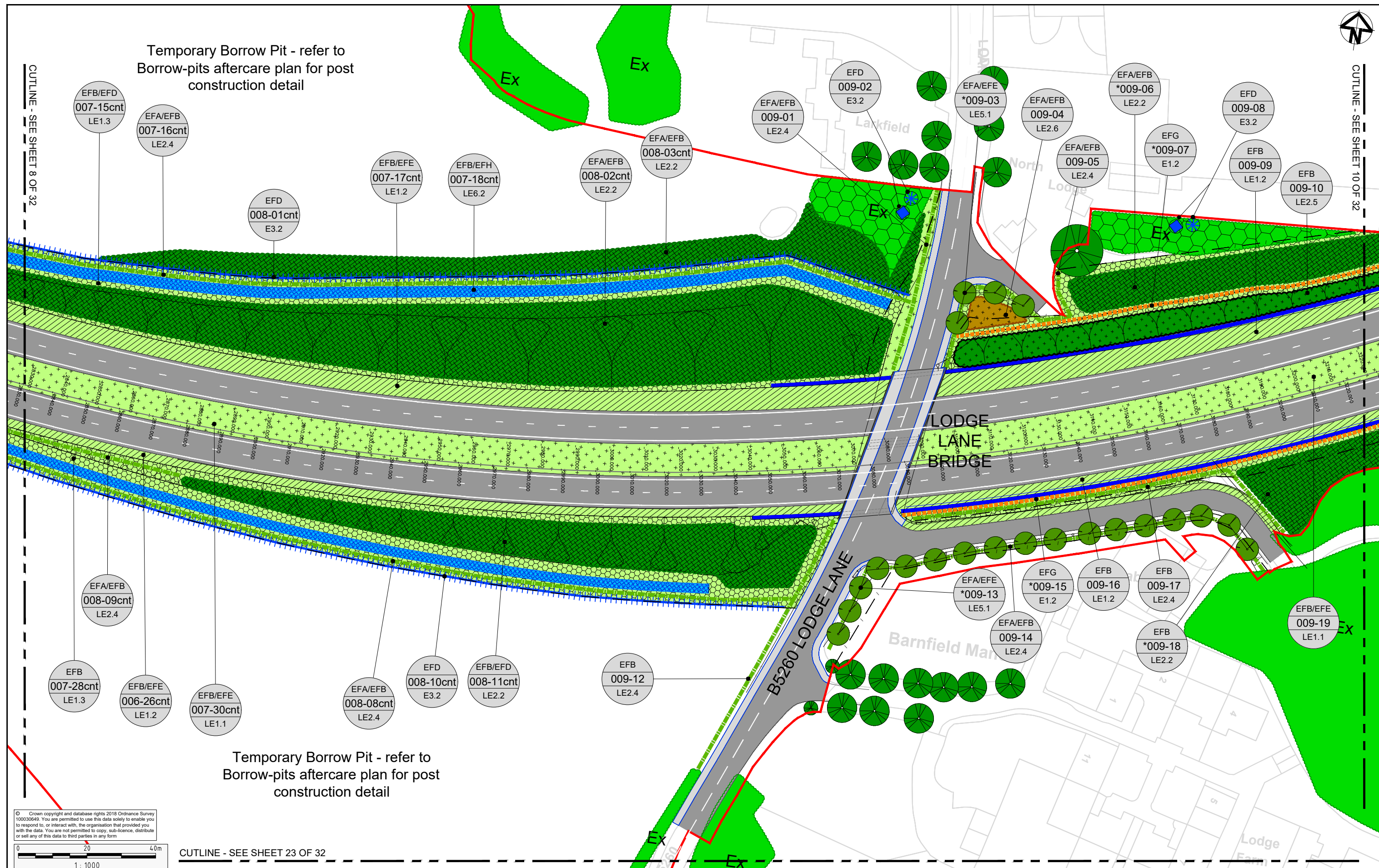
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CUTLINE - SEE SHEET 10 OF 32

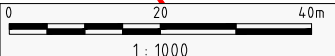
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CUTLINE - SEE SHEET 8 OF 32



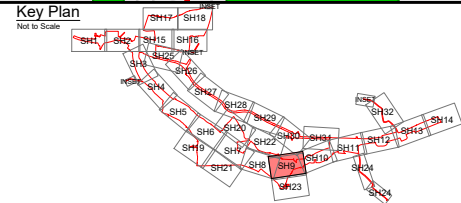
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CUTLINE - SEE SHEET 23 OF 32

- Notes
- *009-07: 2m High Acoustic Barrier.
 - *009-15: 2m High Acoustic Barrier.
 - *009-03: Semi-mature species enhanced size stock, 2m clear stem, 500-550cm high
 - *009-13: Semi-mature species enhanced size stock, 2m clear stem, 500-550cm high.
 - *009-06: Feathered 300-350cm enhanced size stock.
 - *009-18: Feathered 300-350cm enhanced size stock.

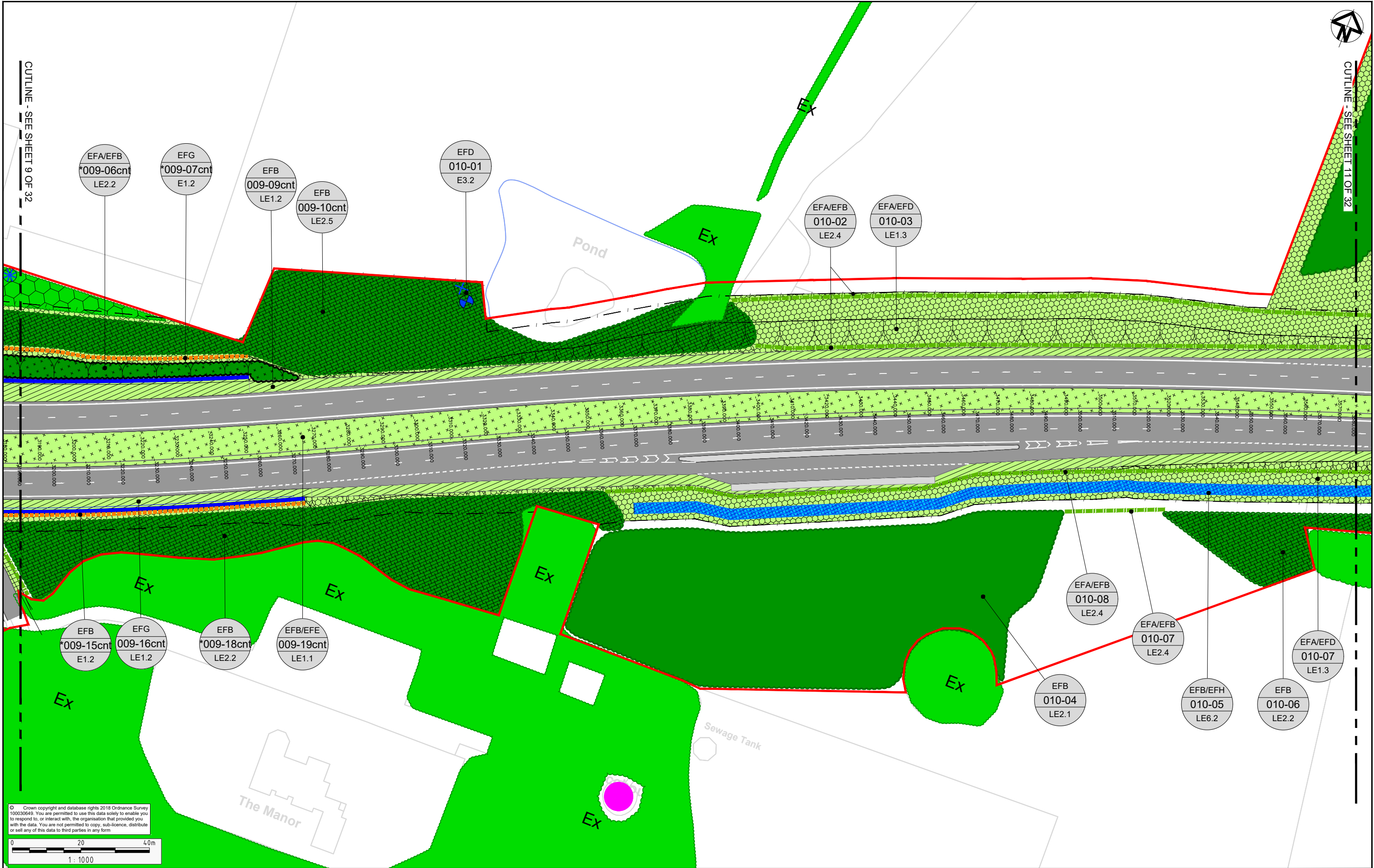


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IMPROVEMENT SCHEME

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- *009-06: Feathered 300-350cm enhanced size stock.
- *009-07: 2m High Acoustic Barrier.
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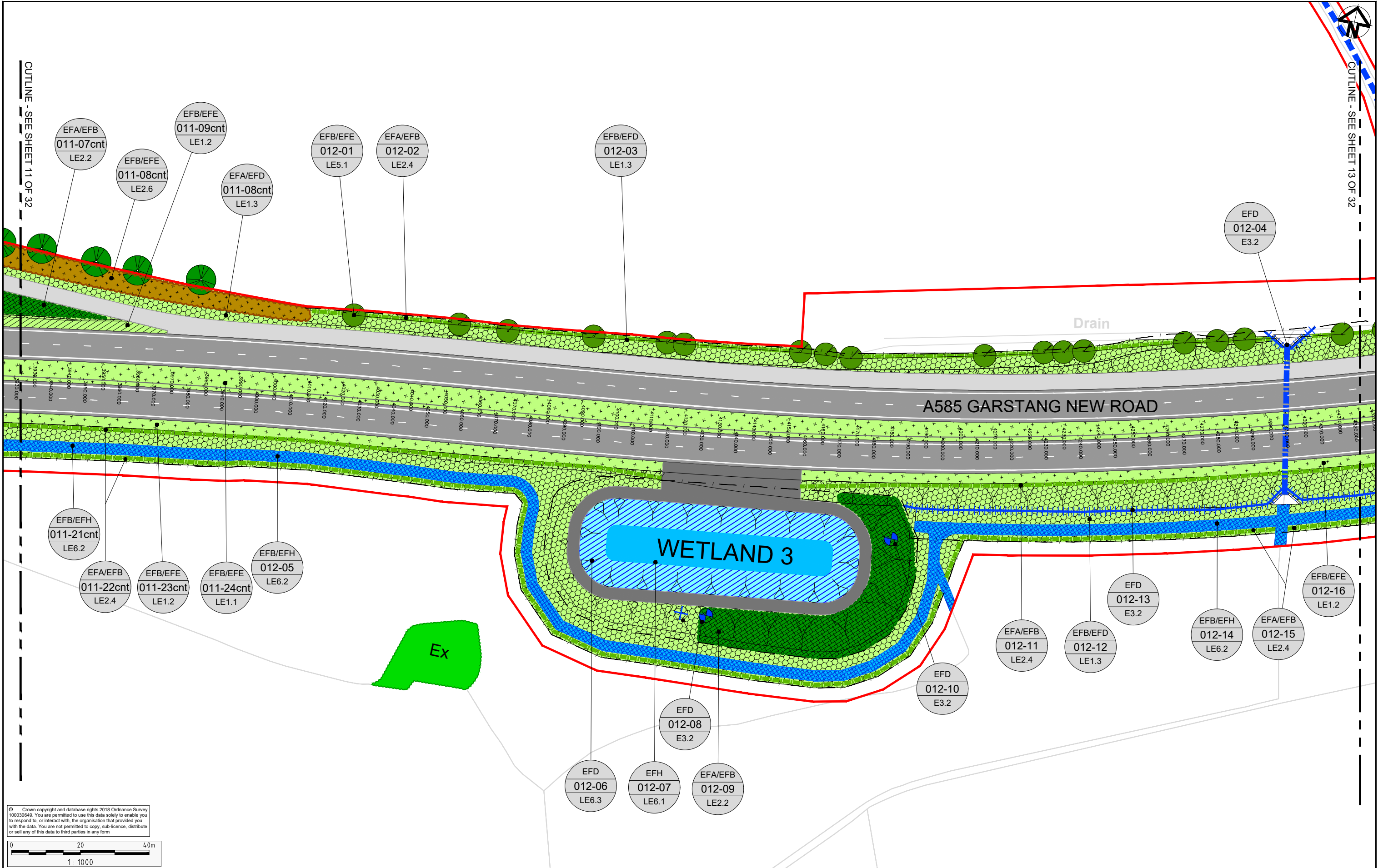
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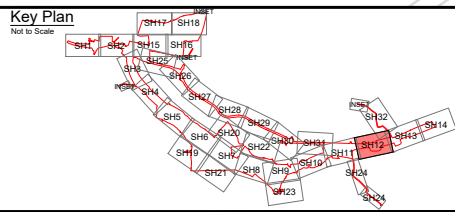
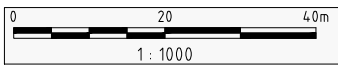
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SHEET 10 OF 32

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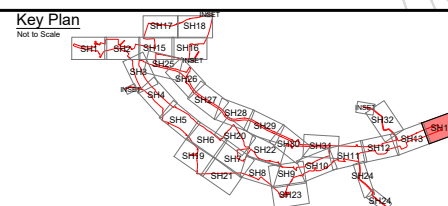
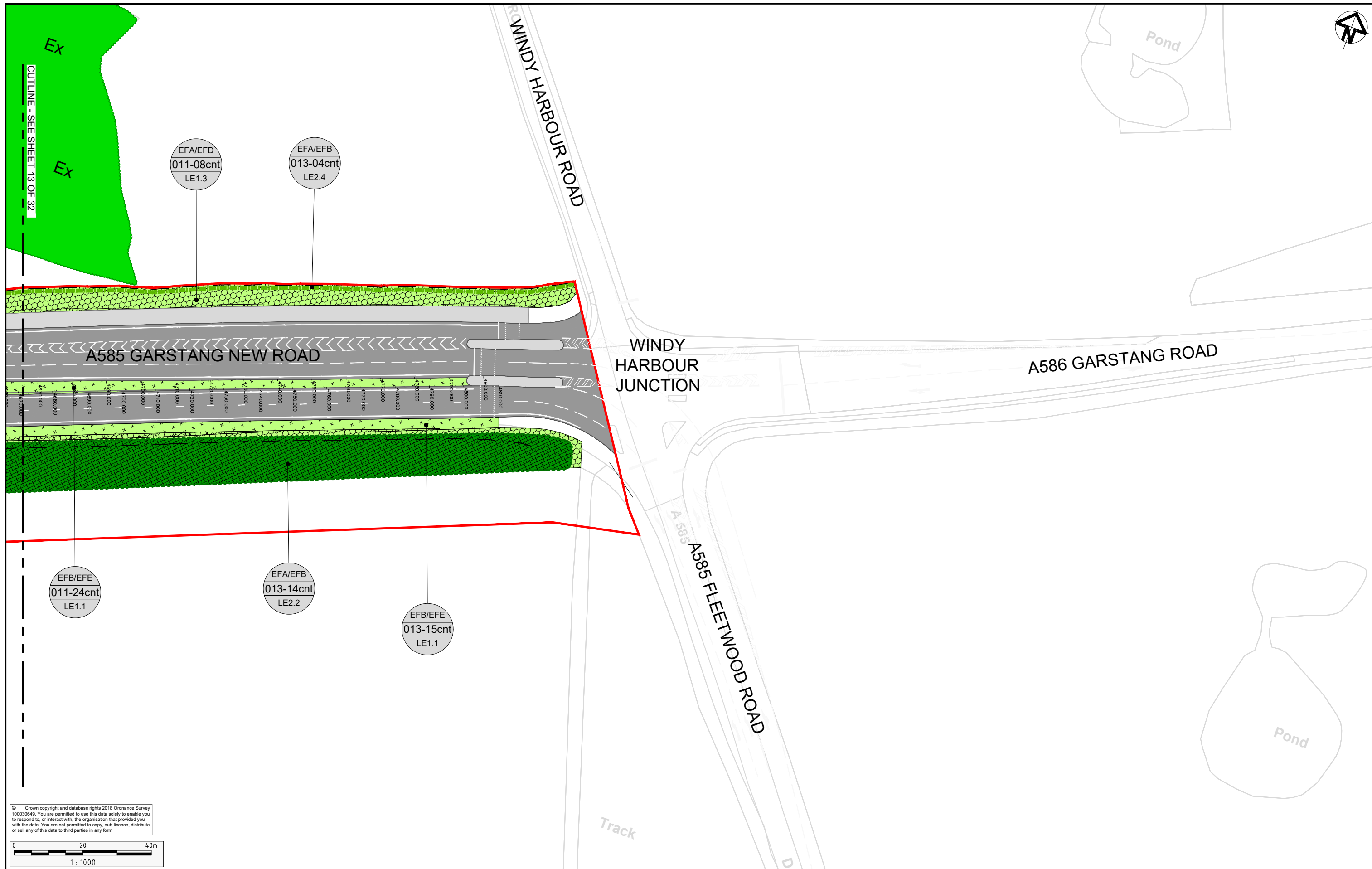


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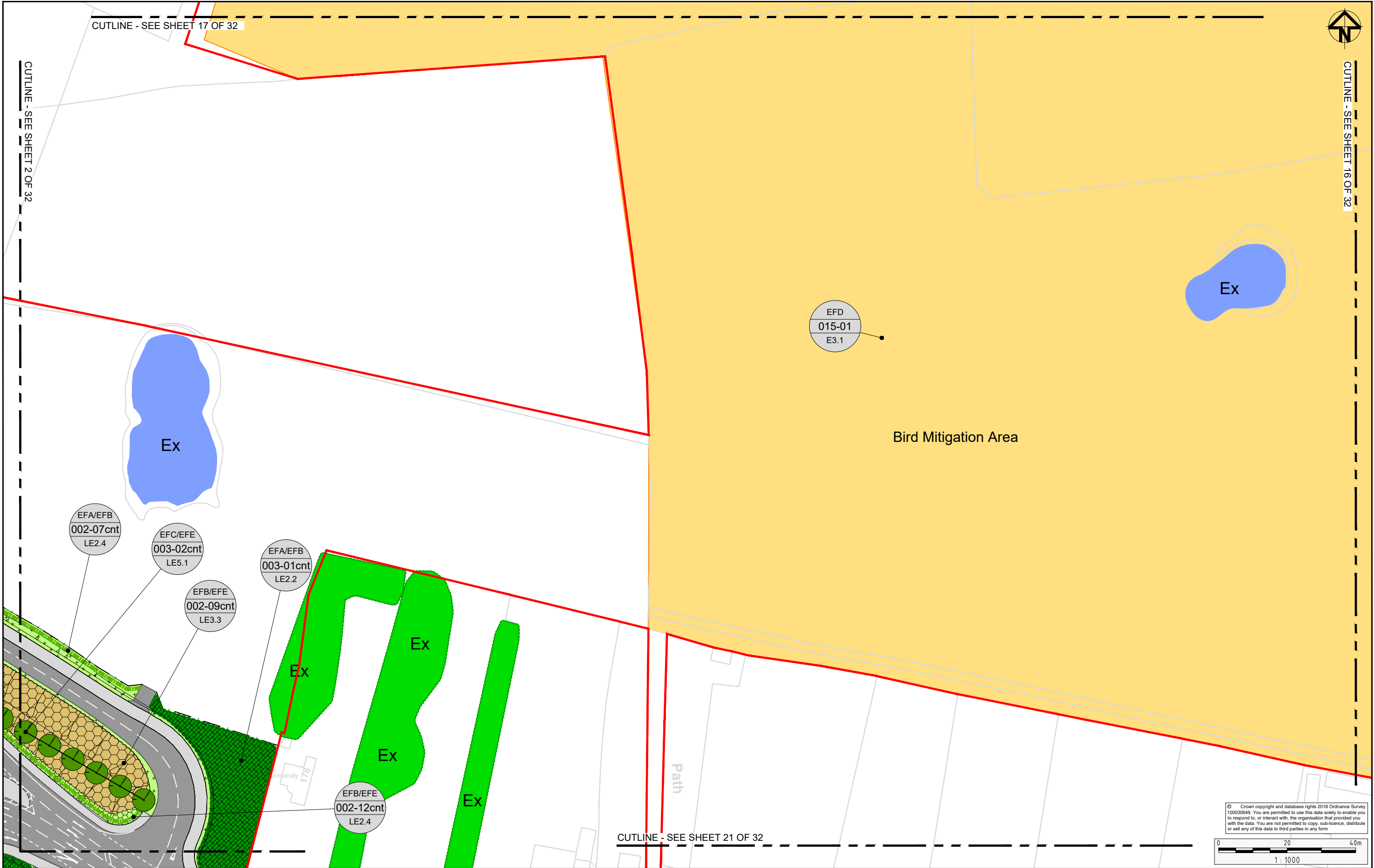


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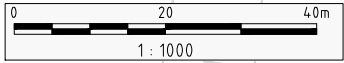
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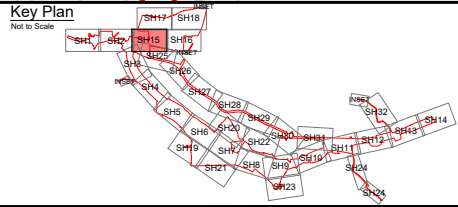
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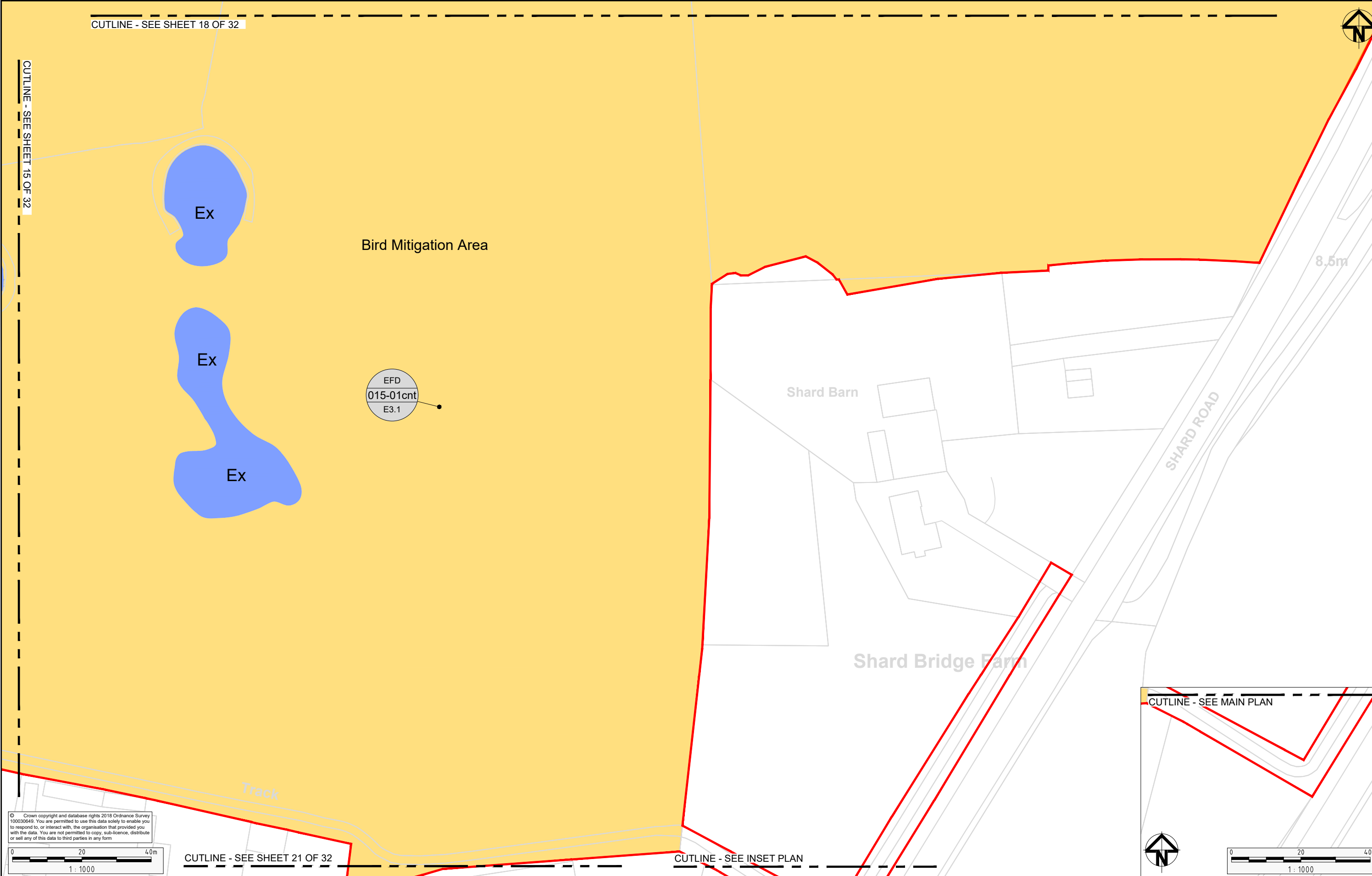
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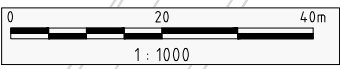
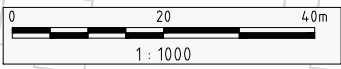
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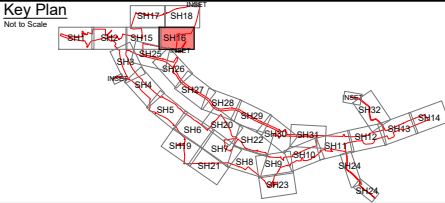
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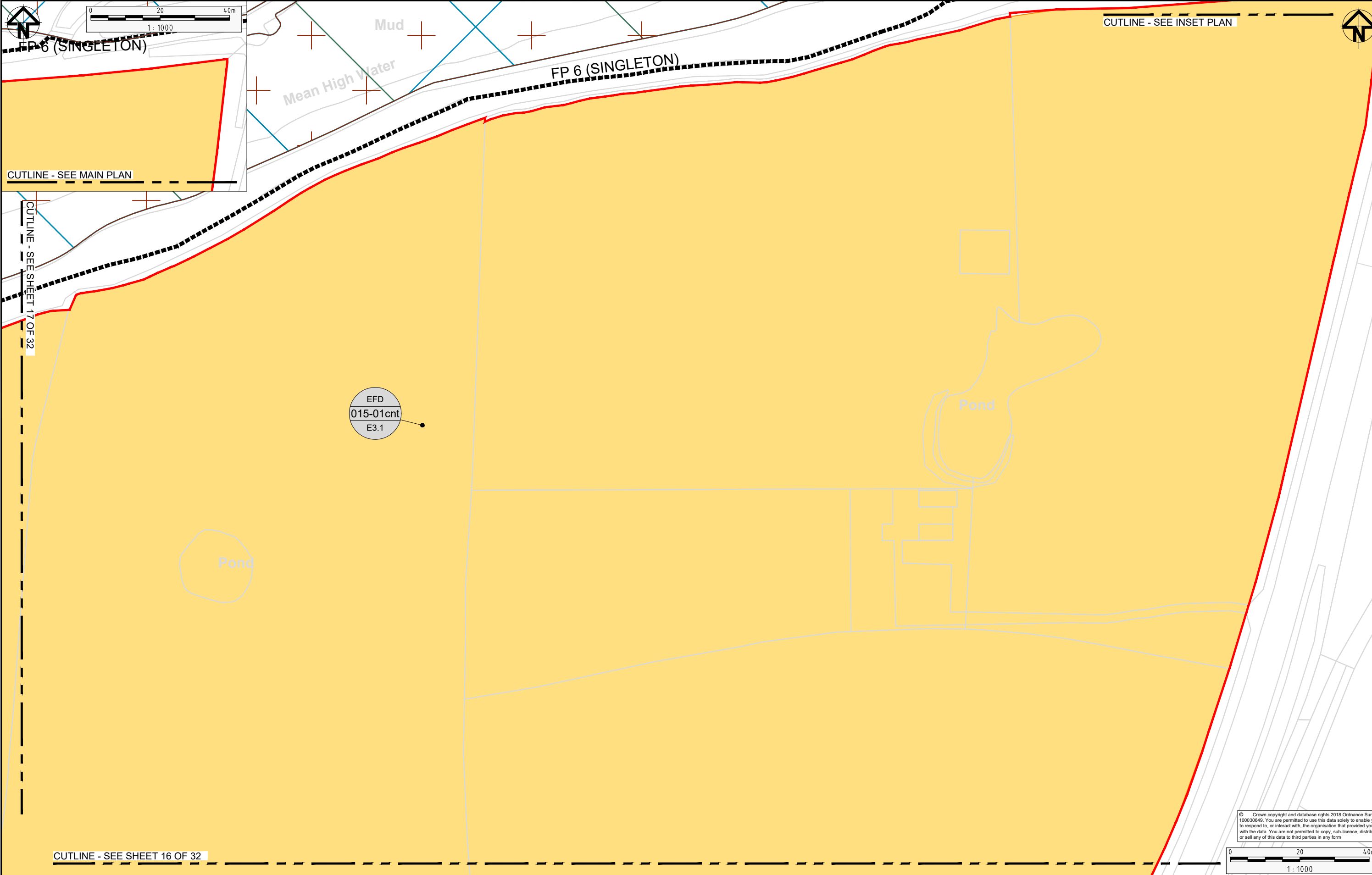
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IMPROVEMENT SCHEME

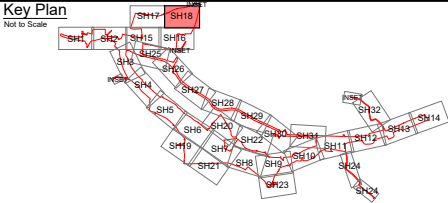
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ENVIRONMENTAL MASTERPLAN
SHEET 16 OF 32

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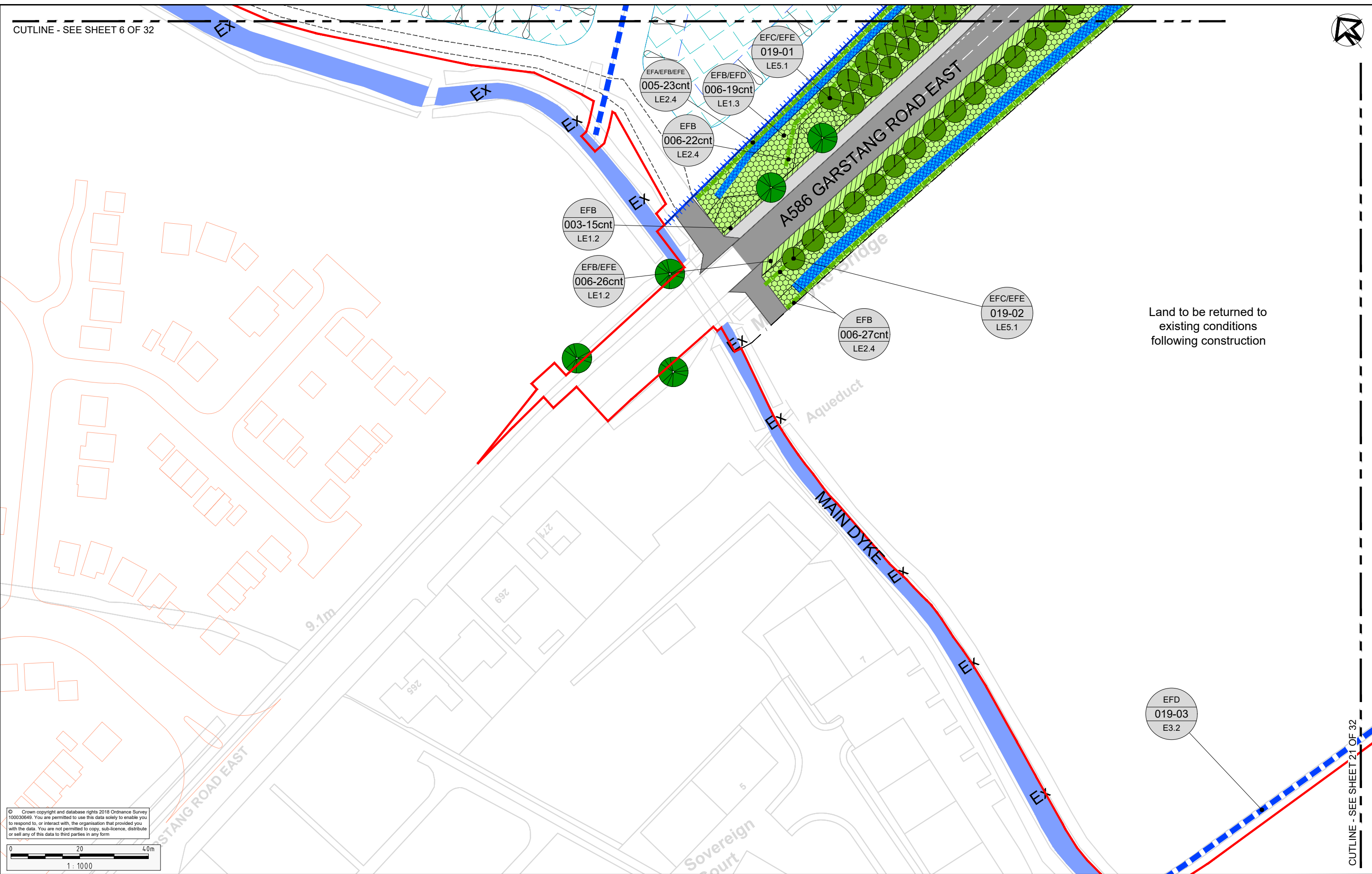
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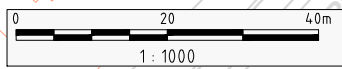
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	HE548643-A585-EAC-SZ_GN_000-DR-L-3020		

CUTLINE - SEE SHEET 6 OF 32



Land to be returned to
existing conditions
following construction

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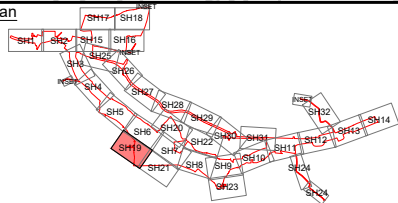


Notes

- *019-01: Double Staggered Tree Avenue

Key Plan

Not to Scale



Client



Project
A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

Drawing Title
ENVIRONMENTAL MASTERPLAN
SHEET 19 OF 32

Status
S8 - DCO SUBMISSION

Revision
0

Scale
1:1000

Date
OCT 2018

Drawn By
R.GRUBB

Checked By
A.CHESTER

Approved By
N.HENDERSON

PINS No.

TR010035

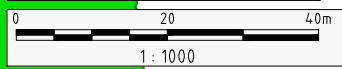
DOC 16.9

Drawing number
HE548643-A585-EAC-S4_GN000-DR-L-3021

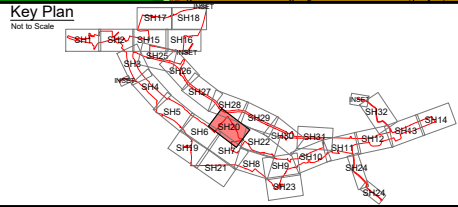
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
0	S8	OCT 2018	DCO SUBMISSION	RG	AC	NH
0.1.0	S3	20 AUG 18	DRAFT FOR SES COMMENT	RG	AC	NH



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Rev				Status			Purpose of revision			Drawn			Chk'd			Appr'd		
0	S8	OCT 2018	DCO SUBMISSION							RG	AC	NH						
0.1.0	S3	20 AUG 18	DRAFT FOR SES COMMENT							RG	AC	NH						



Client

Project
A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

Drawing Title
ENVIRONMENTAL MASTERPLAN
SHEET 20 OF 32

Status		Revision	
S8 - DCO SUBMISSION		0	
Scale	1:1000	Date	OCT 2018
Drawn By	R.GRUBB		
Checked By	A.CHESTER		
Approved By	N.HENDERSON		
PINS No.	TR010035		DOC 16.9
Drawing number	HE PIN	Originator	Volume
HE548643-A585-EAC-S4_GN000-DR-L-3022			

CUTLINE - SEE SHEET 7 OF 32



Land to be returned to
existing conditions
following construction

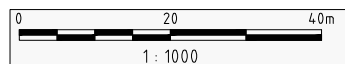
EFD
019-03
E3.2

Ex

Ex

Ex

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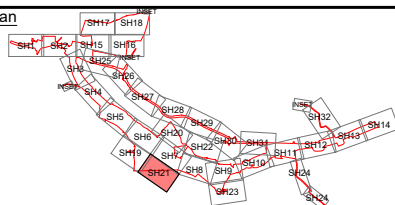


Notes

- *019-01: Double Staggered Tree Avenue

Key Plan

Not to Scale



Client



Project
A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

Drawing Title
ENVIRONMENTAL MASTERPLAN
SHEET 21 OF 32

Status
S8 - DCO SUBMISSION

Revision
0

Scale
1:1000

Date
OCT 2018

Drawn By
R.GRUBB

Checked By
A.CHESTER

Approved By
N.HENDERSON

PINS No.
TR010035

DOC 16.9

Drawing number
HE548643-A585-EAC-S4_GN000-DR-L-3023

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
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CUTLINE - SEE SHEET 25 OF 32

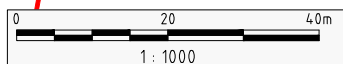
CUTLINE - SEE SHEET 26 OF 32

CUTLINE - SEE SHEET 20 OF 32



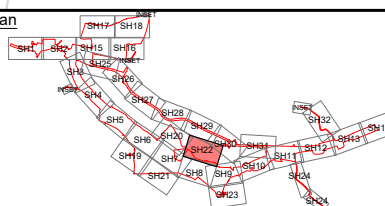
Temporary Borrow Pit - refer to Borrow-pits aftercare plan for post construction detail

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CUTLINE - SEE SHEET 8 OF 32

Key Plan
Not to Scale



Client



Project A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

Drawing Title
ENVIRONMENTAL MASTERPLAN
SHEET 22 OF 32

Status S8 - DCO SUBMISSION Revision 0

Scale 1:1000 Date OCT 2018

Drawn By R.GRUBB

Checked By A.CHESTER

Approved By N.HENDERSON

PINS No. TR010035 DOC 16.9

Drawing number HE PIN | Originator | Volume | Location | Type | Risk | Number
HE548643-A585-EAC-S5_GN000-DR-L-3024

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
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0.1.0	S3	20 AUG 18	DRAFT FOR SES COMMENT	RG	AC	NH



Temporary Borrow Pit - refer to
Borrow-pits aftercare plan for post
construction detail

Ex

Ex

Pond

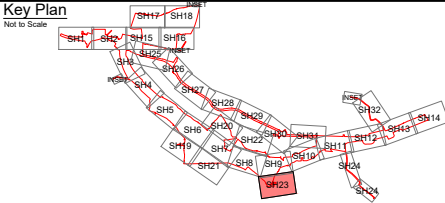
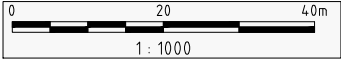
Lodge
Farm
Cottage

Lay-by

13.1m

LODGE LANE

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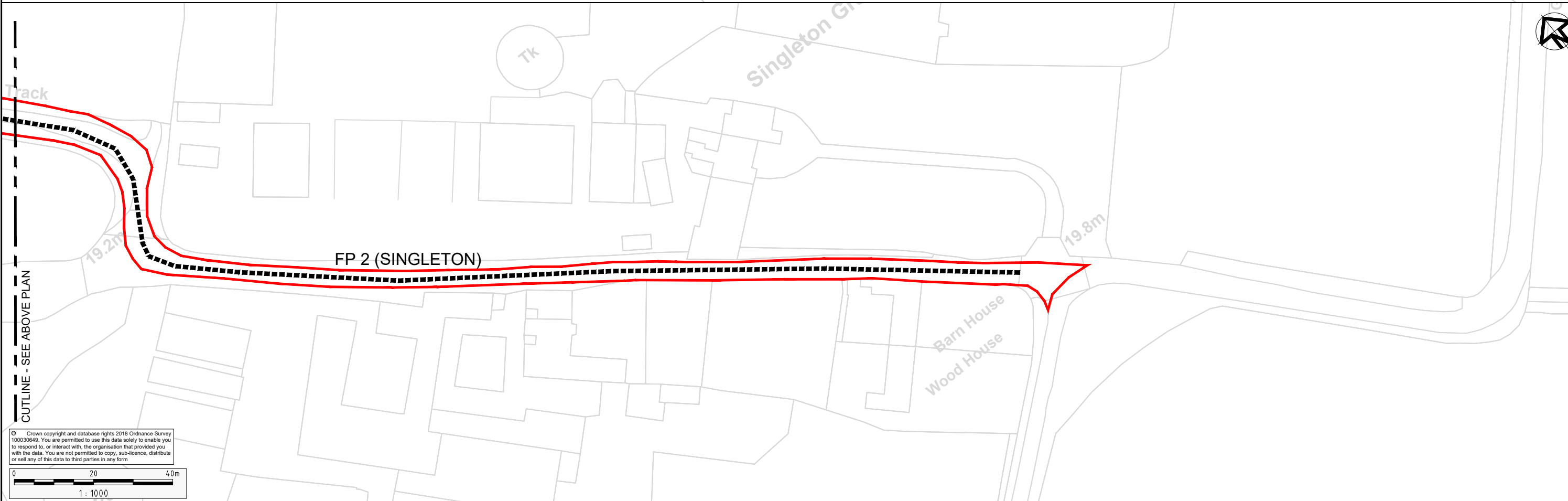
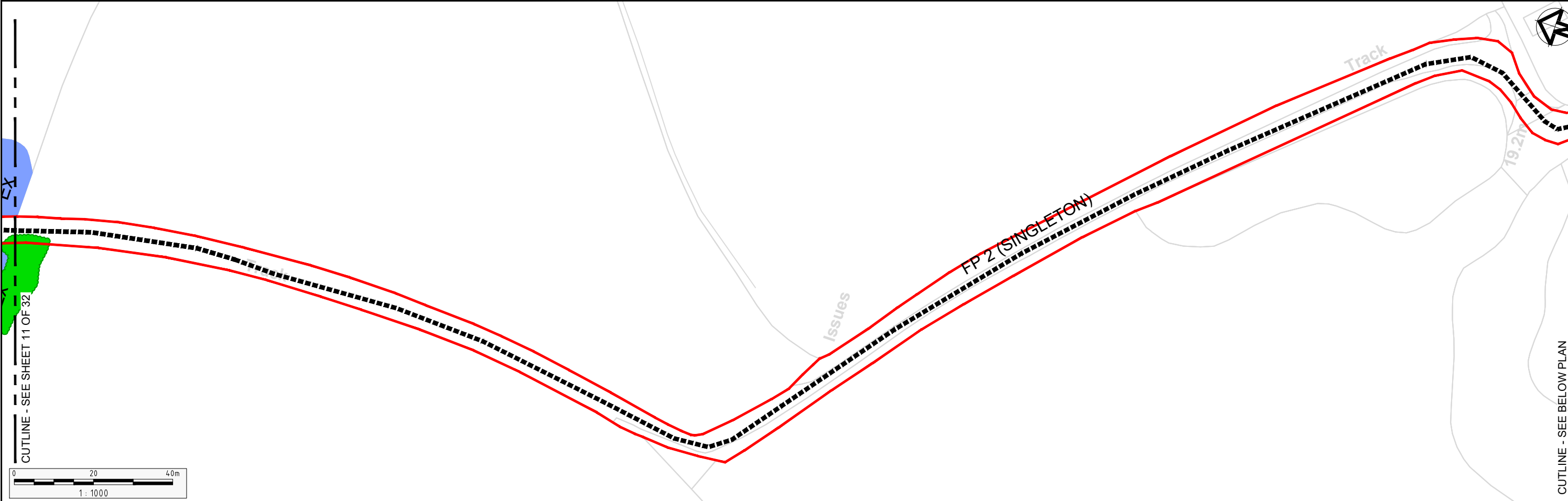


Project A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

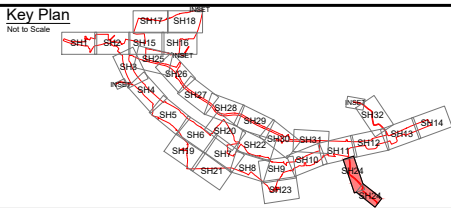
Drawing Title
ENVIRONMENTAL MASTERPLAN
SHEET 23 OF 32

Status S8 - DCO SUBMISSION		Revision 0
Scale	1:1000	Date OCT 2018
Drawn By	R.GRUBB	
Checked By	A.CHESTER	
Approved By	N.HENDERSON	
PINS No.	TR010035	DOC 16.9
Drawing number HE.FN Originator Volume Location Type Risk Number		
HE548643-A585-EAC-S5_GN000-DR-L-3025		

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd
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0.1.0	S3	20 AUG 18	DRAFT FOR SES COMMENT	RG	AC	NH



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

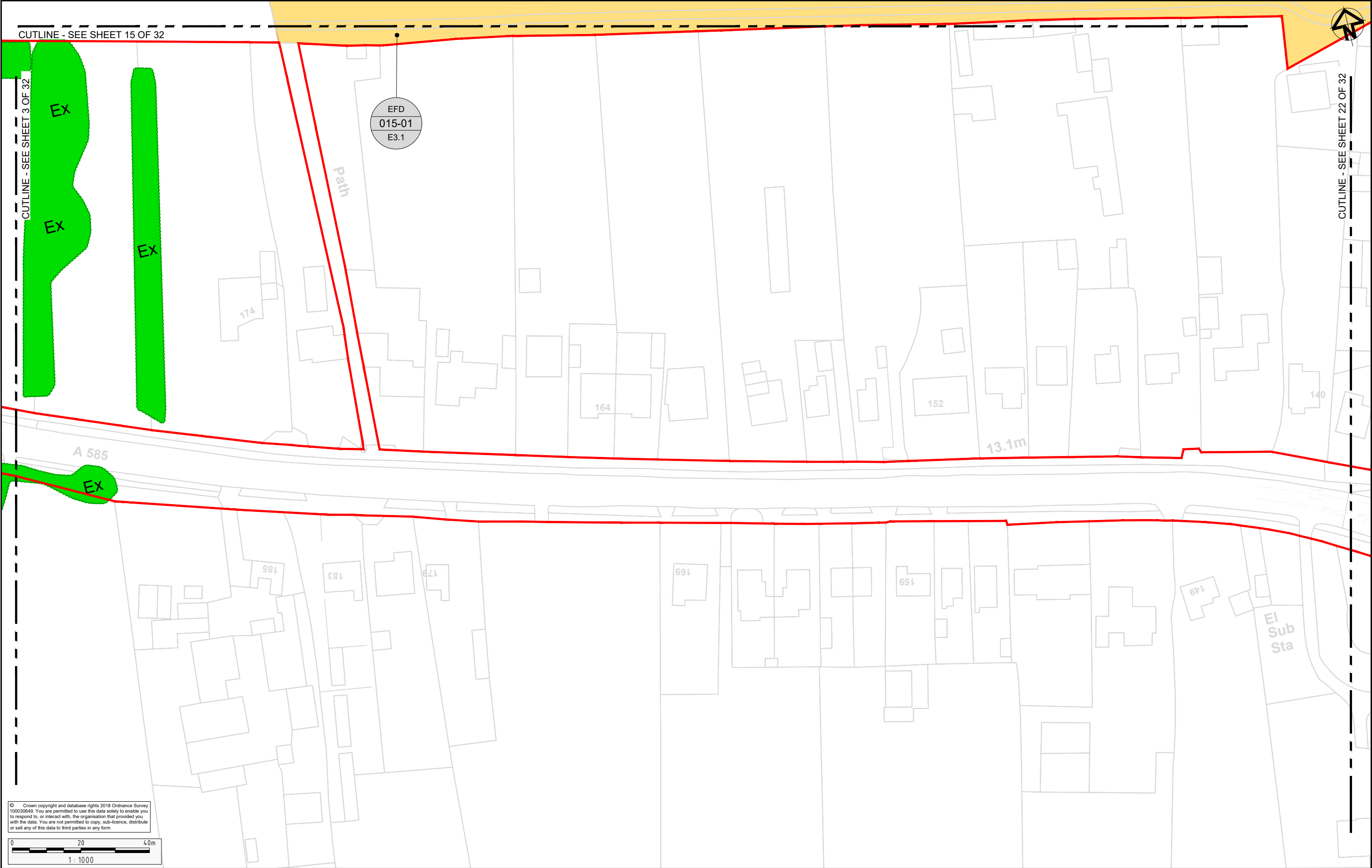


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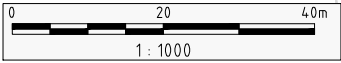
Project A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title ENVIRONMENTAL MASTERPLAN SHEET 24 OF 32

Status	S8 - DCO SUBMISSION	Revision	0
Scale	1:1000	Date	OCT 2018
Drawn By	R.GRUBB		
Checked By	A.CHESTER		
Approved By	N.HENDERSON		
PINS No.	TR010035	DOC	16.9
Drawing number	HE548643-A585-EAC-S5_GN000-DR-L-3026		



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				RG	AC	NH
0	S8	OCT 2018	DCO SUBMISSION	RG	AC	NH
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

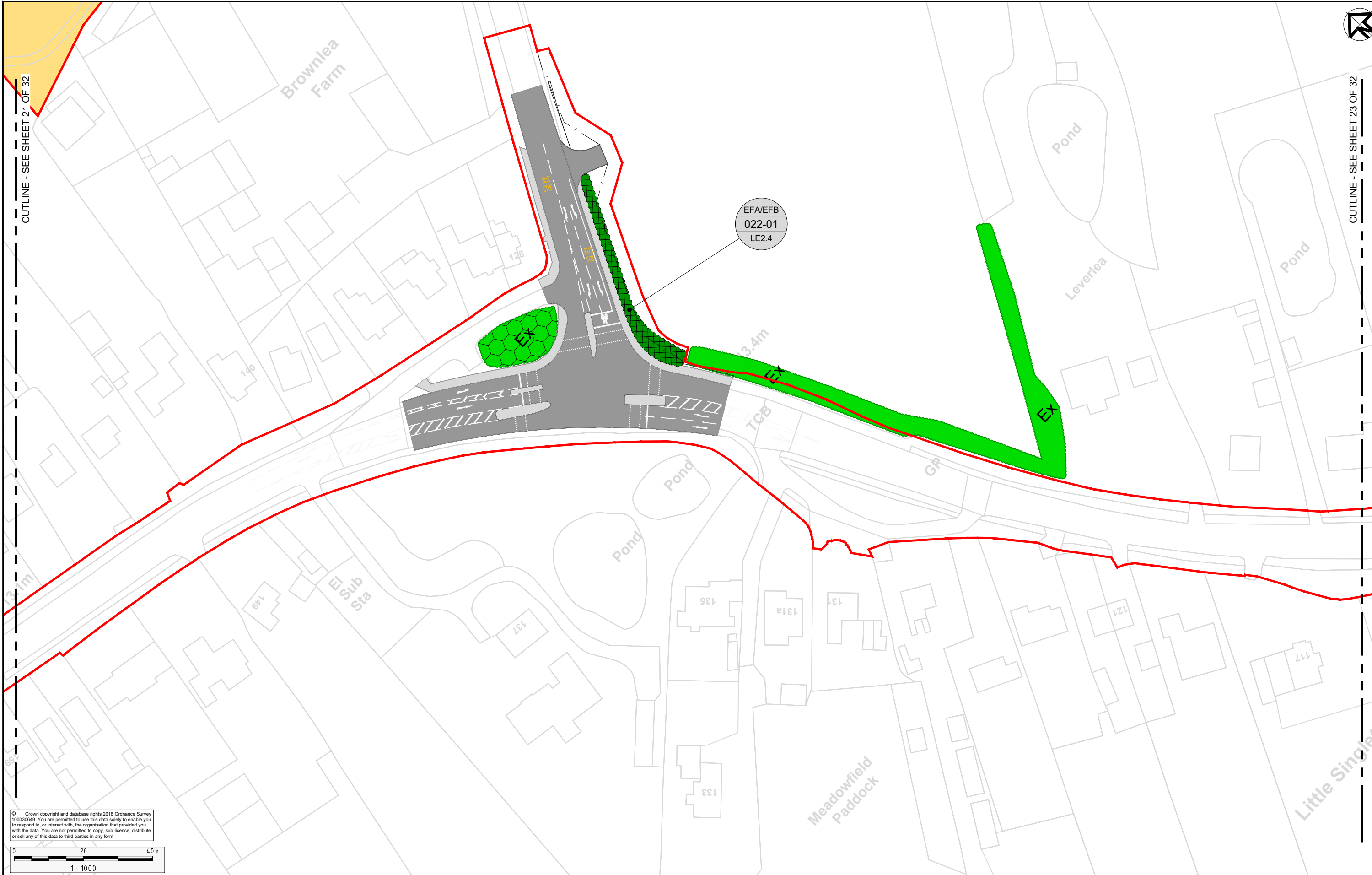


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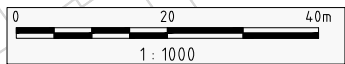
Project A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title ENVIRONMENTAL MASTERPLAN SHEET 25 OF 32

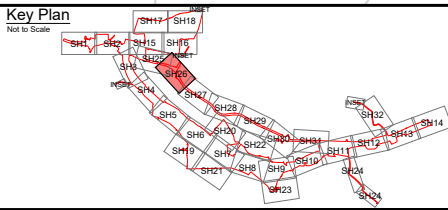
Status S8 - DCO SUBMISSION		Revision 0
Scale 1:1000	Date OCT 2018	
Drawn By R.GRUBB		
Checked By A.CHESTER		
Approved By N.HENDERSON		
PINS No. TR010035	DOC 16.9	
Drawing number HE548643-A585-EAC-S8_GN000-DR-L-3027		



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0.1.0				S3	20 AUG 18	DRAFT FOR SES COMMENT	RG	AC	NH
Rev	Status	Rev. Date	Purpose of revision						
Drawn	Chk'd	Appr'd							



Client

Project A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title ENVIRONMENTAL MASTERPLAN SHEET 26 OF 32

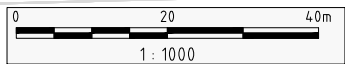
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Scale 1:1000		Date OCT 2018			
Drawn By R.GRUBB					
Checked By A.CHESTER					
Approved By N.HENDERSON					
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Drawing number HE PIN Originator Volume Location Type Issue Number					
HE548643-A585-EAC-S8 GN000-DR-L-3028					



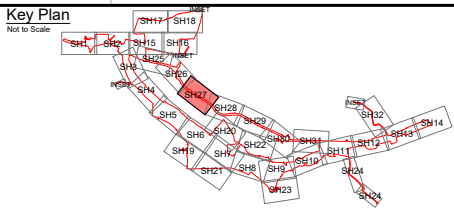
CUTLINE - SEE SHEET 22 OF 32

CUTLINE - SEE SHEET 24 OF 32

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				RG	AC	NH
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0.1.0	S3	20 AUG 18	DRAFT FOR SES COMMENT	RG	AC	NH
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd

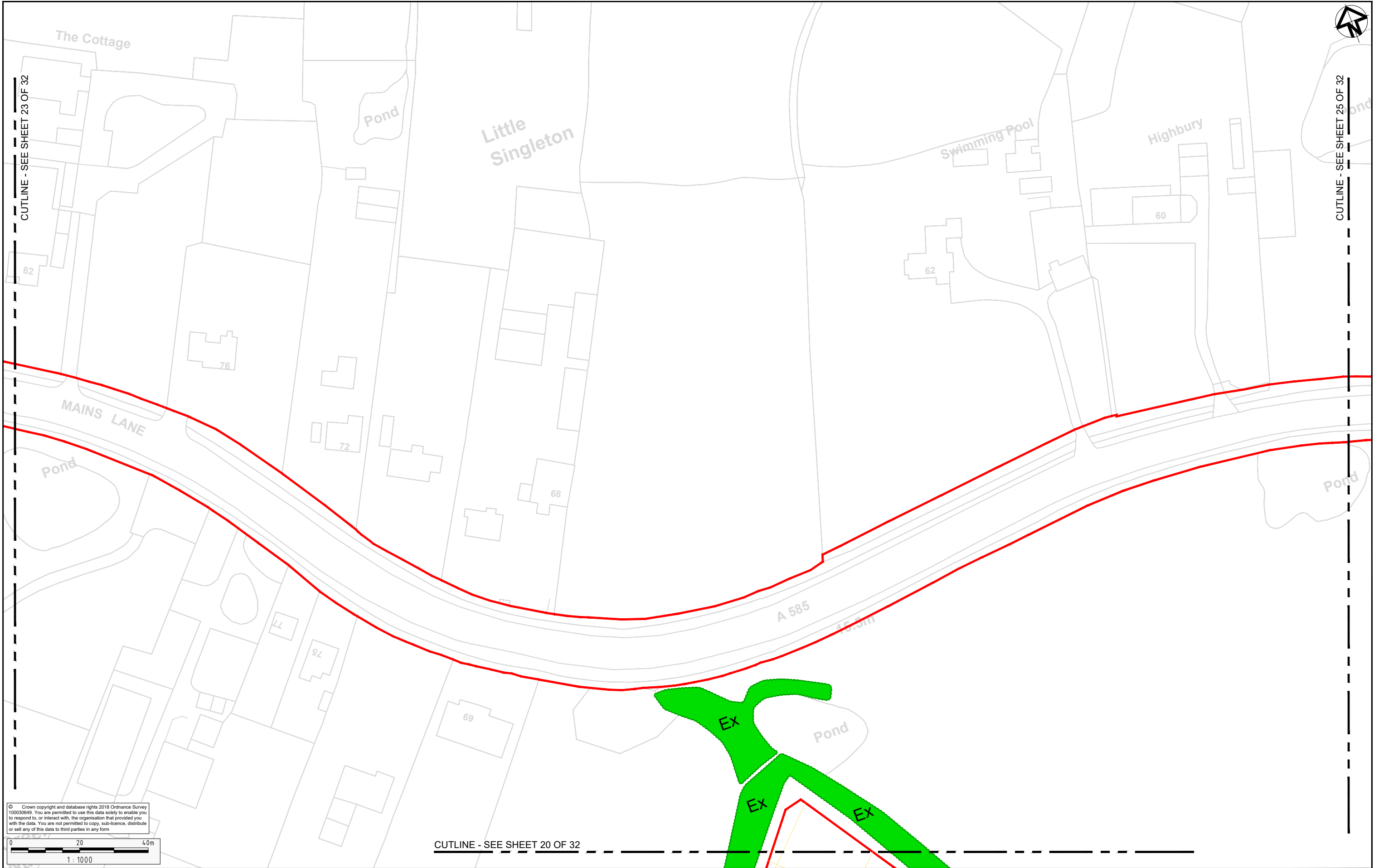


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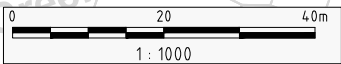
Project A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title ENVIRONMENTAL MASTERPLAN SHEET 27 OF 32

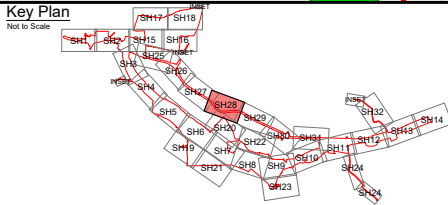
Status S8 - DCO SUBMISSION		Revision 0
Scale 1:1000	Date OCT 2018	
Drawn By R.GRUBB		
Checked By A.CHESTER		
Approved By N.HENDERSON		
PINS No. TR010035	DOC 16.9	
Drawing number HE548643-A585-EAC-S8_GN000-DR-L-3029		



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CUTLINE - SEE SHEET 20 OF 32

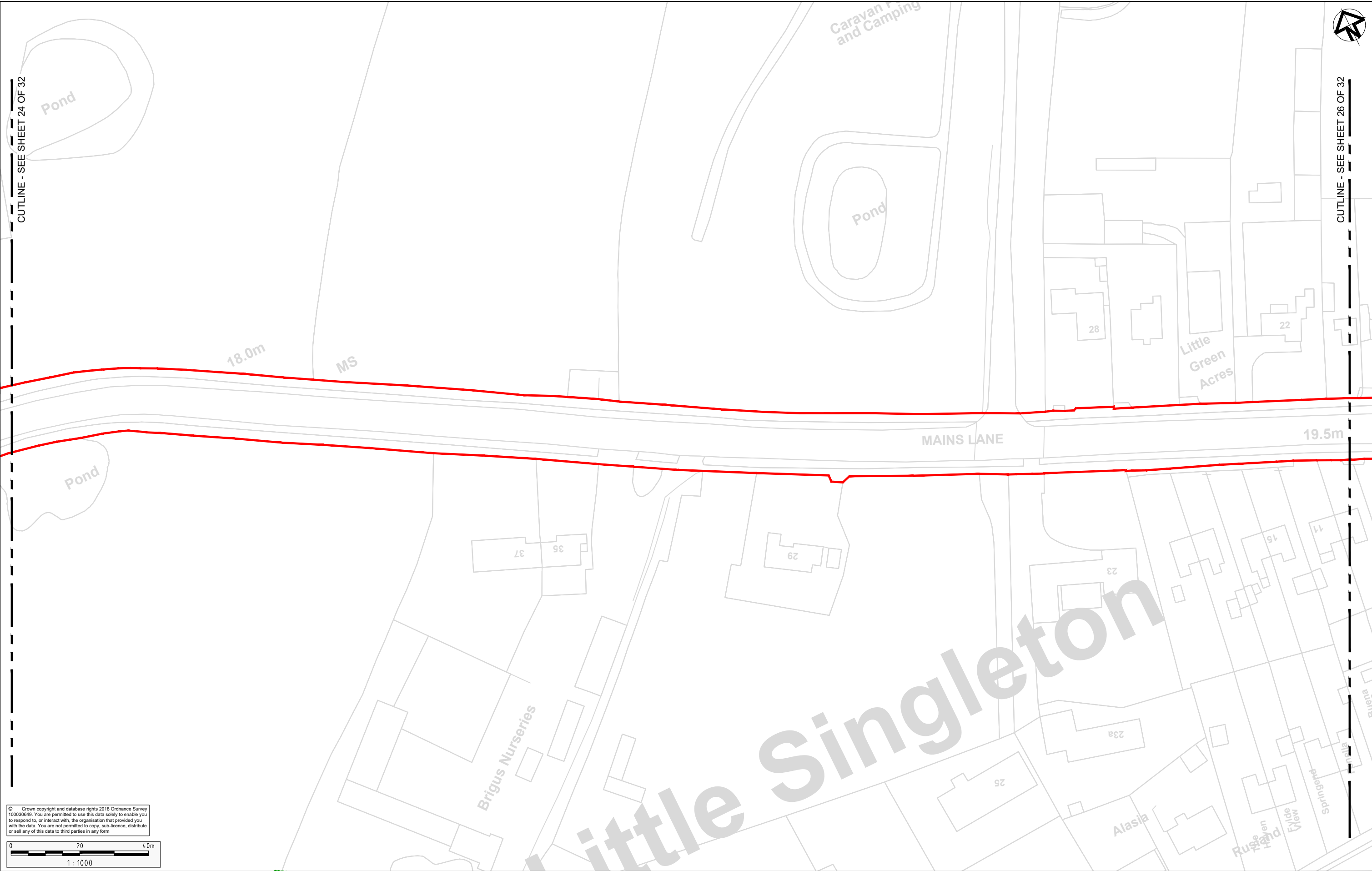


Project A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

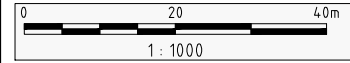
Drawing Title ENVIRONMENTAL MASTERPLAN SHEET 28 OF 32

Status	S8 - DCO SUBMISSION		Revision	0
Scale	1:1000		Date	OCT 2018
Drawn By	R.GRUBB			
Checked By	A.CHESTER			
Approved By	N.HENDERSON			
PINS No.	TR010035		DOC 16.9	
Drawing number	HE.FIN	Originator	Volume	Location
HE548643-A585-EAC-S8_GN000-DR-L-3030				

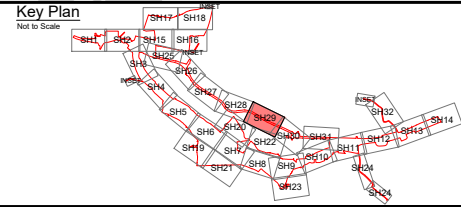
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0.1.0	S3	20 AUG 18	DRAFT FOR SES COMMENT	RG	AC	NH



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				RG	AC	NH
0	S8	OCT 2018	DCO SUBMISSION	RG	AC	NH
0.1.0	S3	30MAY18	DRAFT FOR SES COMMENT	RG	AC	NH
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd



Client

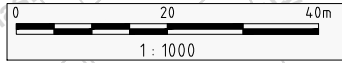
Project A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME

Drawing Title ENVIRONMENTAL MASTERPLAN SHEET 29 OF 32

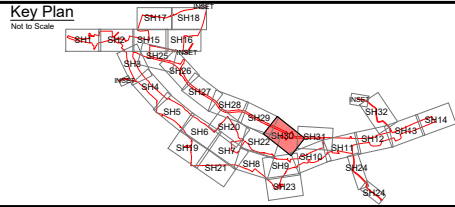
Status S8 - DCO SUBMISSION		Revision 0
Scale 1:1000	Date OCT 2018	
Drawn By R.GRUBB		
Checked By A.CHESTER		
Approved By N.HENDERSON		
PINS No. TR010035	DOC 16.9	
Drawing number HE548643-A585-EAC-S8_GN000-DR-L-3031		



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Apprv'd



Client

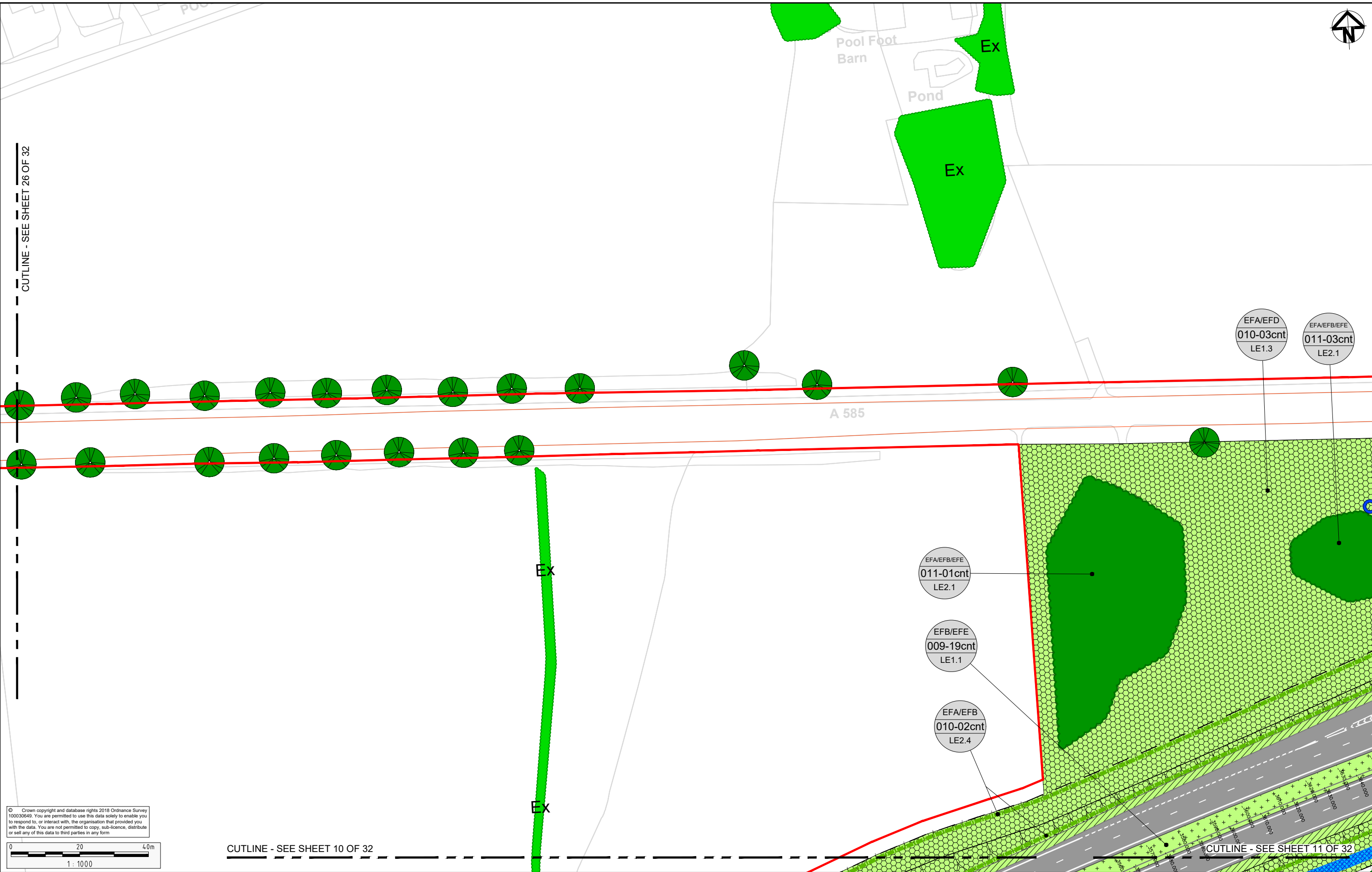
Project

A585 WINDY HARBOUR TO SKIPPOOL
IMPROVEMENT SCHEME

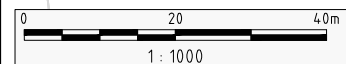
Drawing Title

ENVIRONMENTAL MASTERPLAN
SHEET 30 OF 32

Status		S8 - DCO SUBMISSION		Revision		0	
Scale		1:1000		Date		OCT 2018	
Drawn By		R.GRUBB					
Checked By		A.CHESTER					
Approved By		N.HENDERSON					
PINS No.		TR010035			DOC 16.9		
Drawing number		HE PIN	Originator	Volume	Location	Type	File Number
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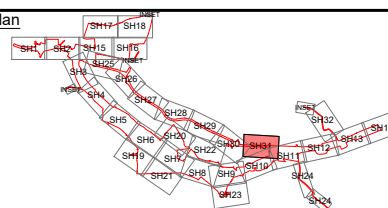


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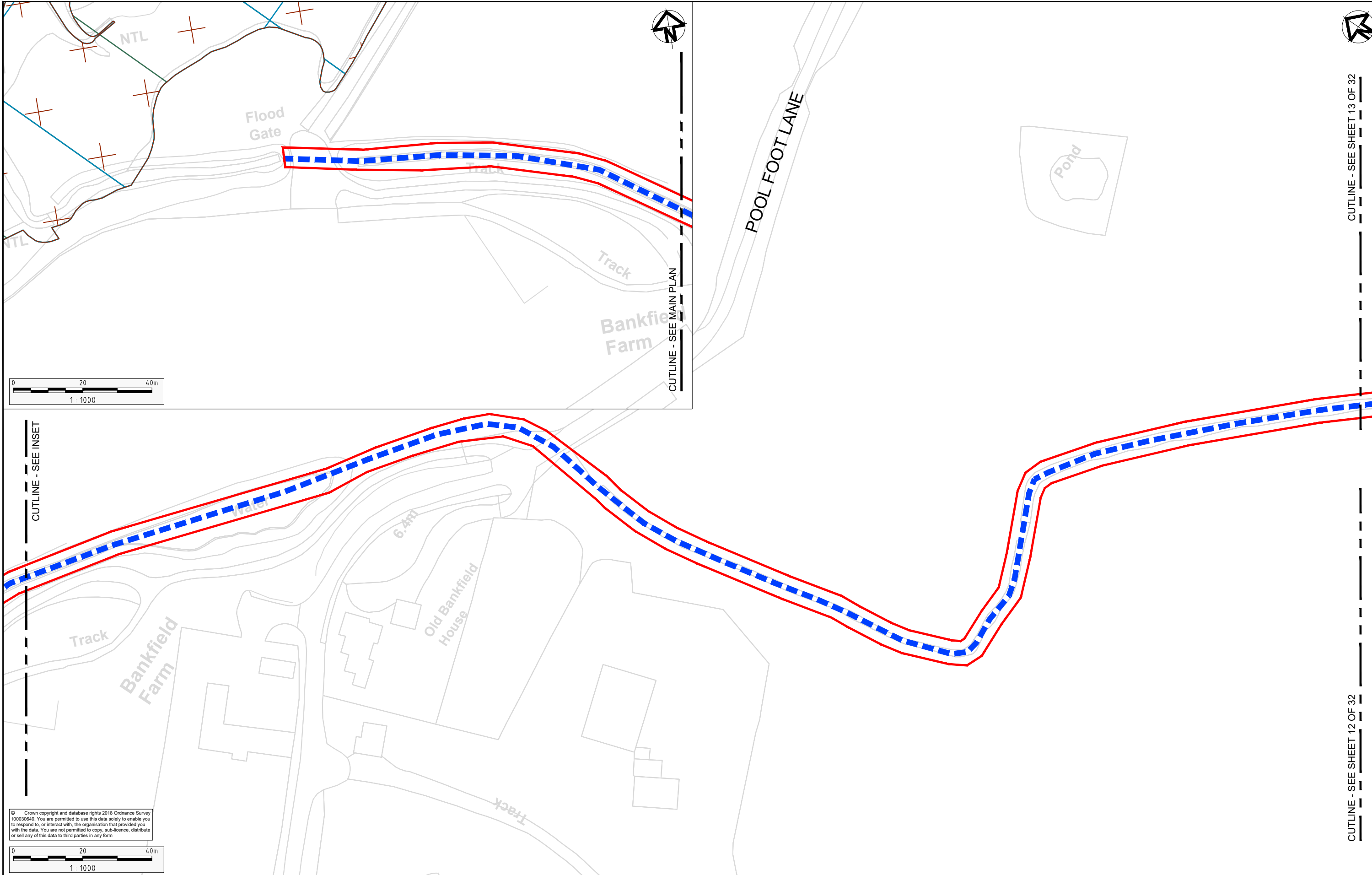
Key Plan
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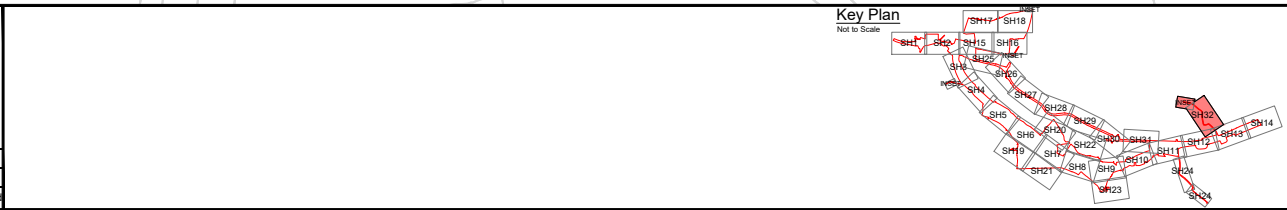
ENVIRONMENTAL MASTERPLAN
SHEET 31 OF 32

Status	S8 - DCO SUBMISSION				Revision	0	
Scale	1:1000				Date	OCT 2018	
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Checked By	A.CHESTER						
Approved By	N.HENDERSON						
PINS No.	TR010035				DOC 16.9		
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd



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0.1.0	S3	30MAY18	DRAFT FOR SES COMMENT	RG	AC	NH
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd



Client

Project	A585 WINDY HARBOUR TO SKIPPOOL IMPROVEMENT SCHEME	
Drawing Title	ENVIRONMENTAL MASTERPLAN SHEET 32 OF 32	

Status				Revision					
S8 - DCO SUBMISSION				0					
Scale		1:1000				Date		OCT 2018	
Drawn By		R.GRUBB							
Checked By		A.CHESTER							
Approved By		N.HENDERSON							
PINS No.		TR010035				DOC 16.9			
Drawing number		HE.FIN	Originator	Volume	Location	Type	Role	Number	
HE548643-A585-EAC-SZ_GN_000-DR-L-3034									



CUTLINE - SEE SHEET 13 OF 32

CUTLINE - SEE SHEET 12 OF 32