

# A47/A11 Thickthorn Junction

**Scheme Number: TR010037**

## **Volume 2** **2.8 Drainage and Surface Water Plans**

APFP Regulations 5(2)(o) and 5(4)

Planning Act 2008

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

March 2021

Infrastructure Planning

Planning Act 2008

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

The A47/A11 Thickthorn Junction  
Development Consent Order 202[x]

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**DRAINAGE AND SURFACE WATER PLANS**

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<b>Regulation Number:</b>	5(2)(o) and 5(4)
<b>Planning Inspectorate Scheme Reference</b>	TR010037
<b>Application Document Reference</b>	TR010037/APP/2.8
<b>Author:</b>	A47/A11 Thickthorn Junction Project Team, Highways England

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev. 0	March 2021	Application Issue

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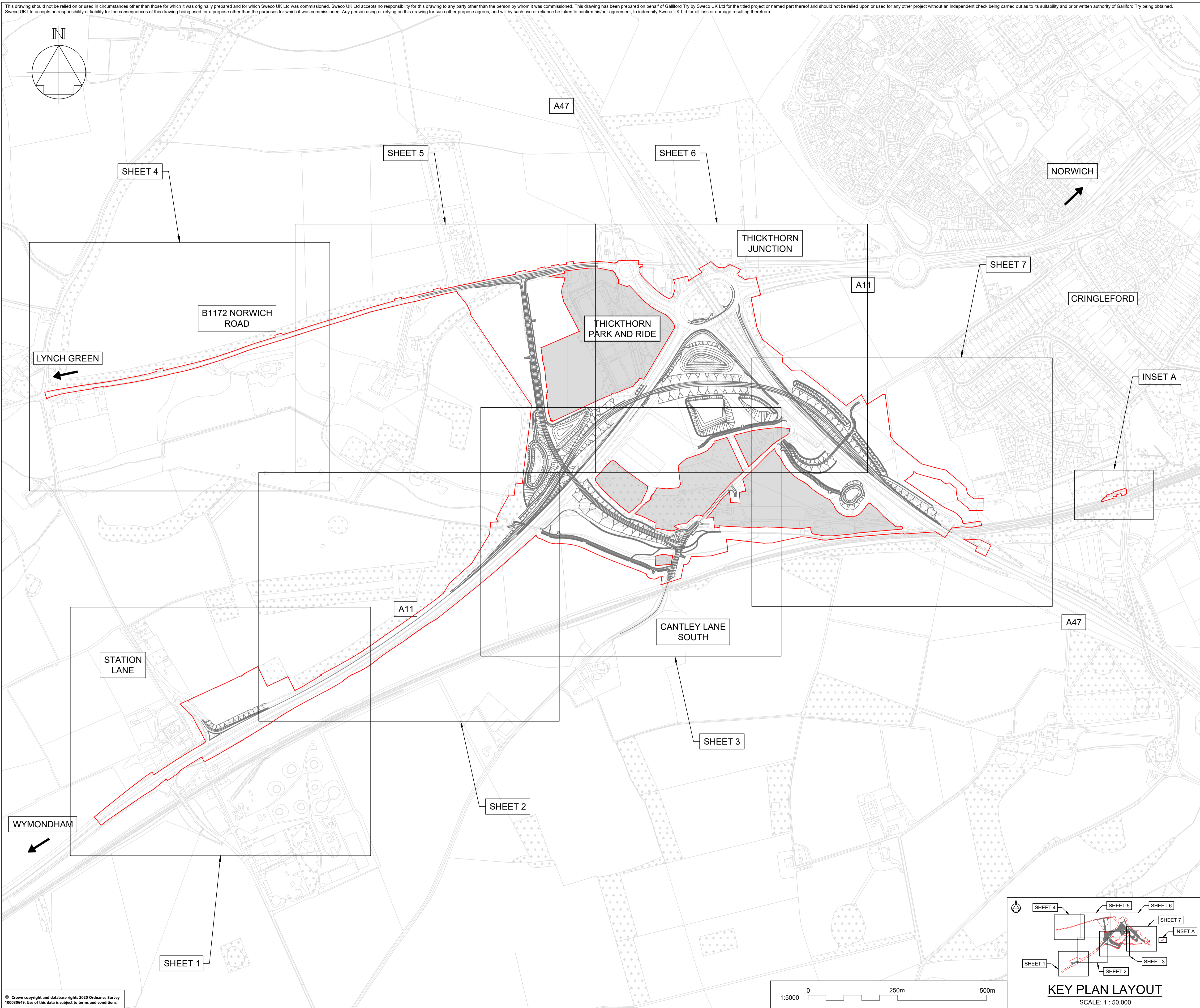
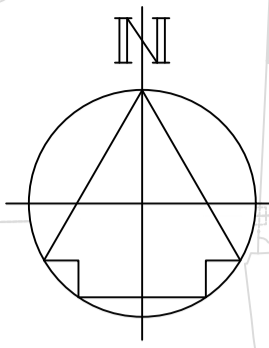
## 1. INTRODUCTION

- 1.1.1. The Drainage and Surface Water Plans (the “Plans”) relate to an application made by Highways England (the “Applicant”) to the Secretary of State of Transport, via the Planning Inspectorate (the “Inspectorate”) under Section 37 of the Planning Act 2008 (PA 2008) for a Development Consent Order (DCO). If made, the DCO would grant consent for the A47/A11 Thickthorn Junction (the “Scheme”). A detailed description of the Scheme can be found in Chapter 2: The Proposed Scheme of the Environmental Statement (ES)(**TR010037/APP/6.1**)
- 1.1.2. The Plans comprise part of the suite of Application documentation and are included in the application for a DCO in compliance with Regulations 5(2)(0) and 5(4) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (the “2009 Regulations”), which require:
- 5(2)(o) “any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping;”
- 5(4) “where a plan comprises three or more separate sheets a key plan must be provided showing the relationship between the different sheets”.*
- 1.1.3. As the Plans are part of the application documentation, they should be read alongside and are informed by the other application documentation. In particular, the Plans should be read alongside Schedule 1 of the draft DCO (**TR010037/APP/3.1**), the Works Plans (**TR010037/APP/2.4**) and the Engineering Drawings and Sections (**TR010037/APP/2.7**).

## 2. SCHEDULE OF PLANS IN THIS APPLICATION DOCUMENT

Document Title	DCO Document Number	Drawing Number	Rev
Drainage and Surface Water Plans, Regulation 5(4) – Key Plan	TR010037/APP/2.8(A)	HE551492-GTY-LSI-000-DR-CH-37000	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 1 of 7	TR010037/APP/2.8(B)	HE551492-GTY-LSI-000-DR-CH-37001	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 2 of 7	TR010037/APP/2.8(C)	HE551492-GTY-LSI-000-DR-CH-37002	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 3 of 7	TR010037/APP/2.8(D)	HE551492-GTY-LSI-000-DR-CH-37003	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 4 of 7	TR010037/APP/2.8(E)	HE551492-GTY-LSI-000-DR-CH-37004	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 5 of 7	TR010037/APP/2.8(F)	HE551492-GTY-LSI-000-DR-CH-37005	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 6 of 7	TR010037/APP/2.8(G)	HE551492-GTY-LSI-000-DR-CH-37006	C01
Drainage and Surface Water Plans, Regulation 5(2)(o), Sheet 7 of 7	TR010037/APP/2.8(H)	HE551492-GTY-LSI-000-DR-CH-37007	C01

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**NOTES**

Purpose of use  
**FOR DCO SUBMISSION**

Development Consent Order Number / Document  
**TR010037/APP/2.8(A)**

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.
- THESE PLANS SHOULD BE READ IN CONJUNCTION WITH OTHER PLANS AND DOCUMENTS IN THE DEVELOPMENT CONSENT ORDER, IN PARTICULAR THE BOOK OF REFERENCE.

**KEY TO SYMBOLS**

- ORDER LIMITS
- AREA NOT INCLUDED IN ORDER LIMITS
- SCHEME DESIGN

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	10/11/20	FOR INFORMATION	AKno	JHar	JHar
P02	10/12/20	DESIGN UPDATE	DPil	JHar	JHar
P03	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
P04	30/03/21	DCO SUBMISSION	AKno	JHar	BWll
C01	30/03/21	DCO SUBMISSION	AKno	JHar	BWll

DESIGNER  
**SWECO**

CONTRACTOR  
**GallifordTry**

CLIENT  
**highways england**

PROJECT TITLE  
**A47/A11 THICKTHORN JUNCTION**

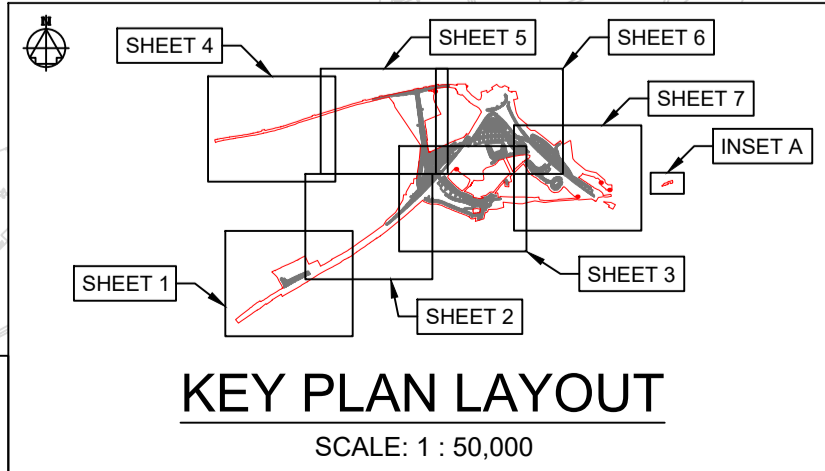
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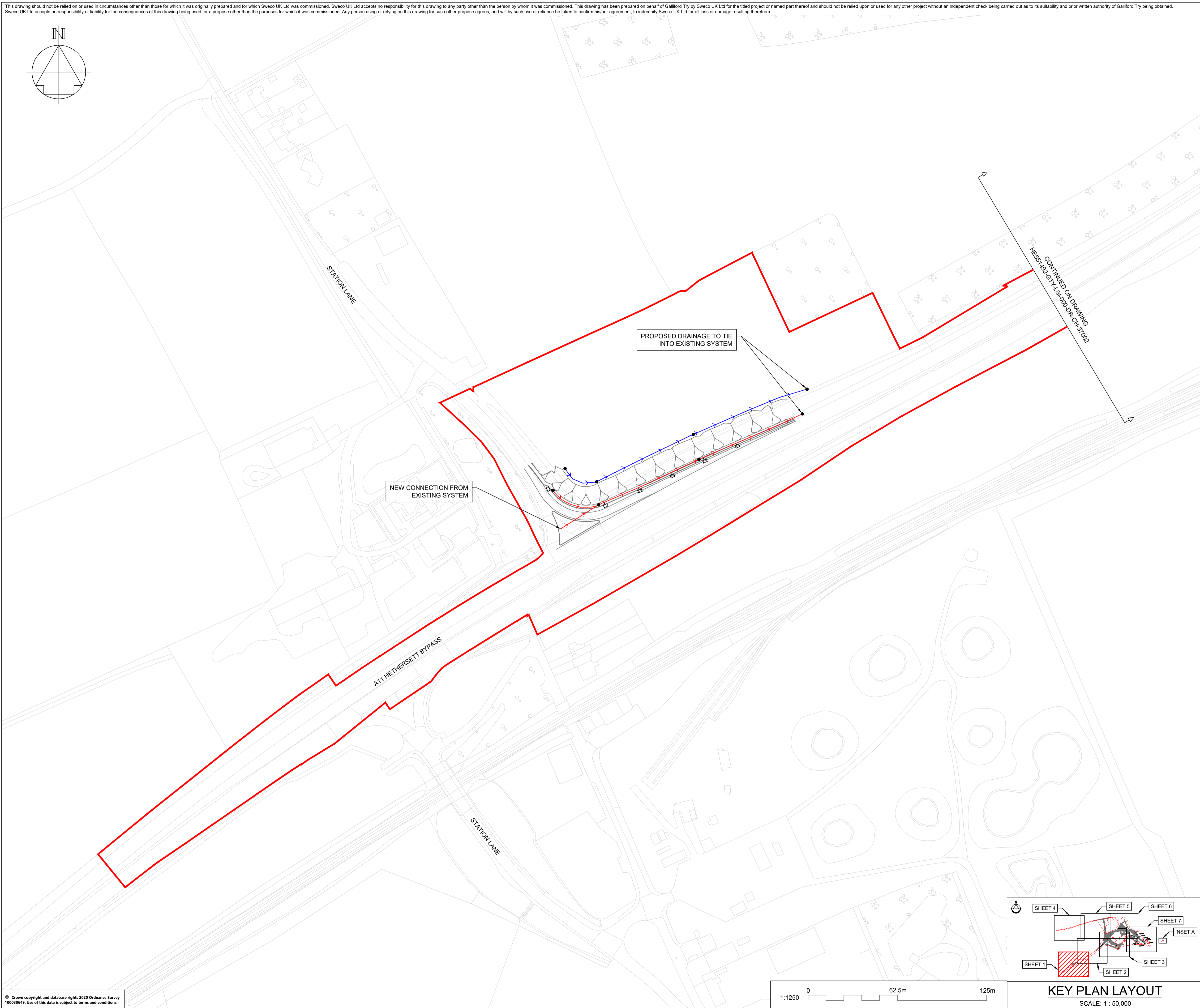
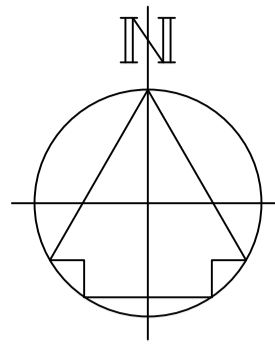
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**NOTES**

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- > CARRIER DRAIN
- > NARROW FILTER DRAIN / FIN DRAIN
- > SURFACE WATER CHANNEL
- COMBINED KERB DRAINAGE
- LINEAR DRAINAGE SYSTEM
- RISING MAIN
- PRE-EARTHWORKS DRAINAGE DITCH
- CATCHPIT / MANHOLE
- GULLY & CONNECTOR
- ⌋ PROPOSED HEADWALL
- BYPASS INTERCEPTORS
- PUMP SHAFT
- CULVERT / PIPE CROSSING
- ATTENUATION STORAGE TANK / AREA

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	10/11/20	FOR INFORMATION	AKno	JHar	JHar
P02	10/12/20	DESIGN UPDATE	DPil	JHar	JHar
P03	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER  
**SWECO**

CONTRACTOR  
**GallifordTry**

CLIENT  
**highways  
england**

PROJECT TITLE  
**A47/A11 THICKTHORN JUNCTION**

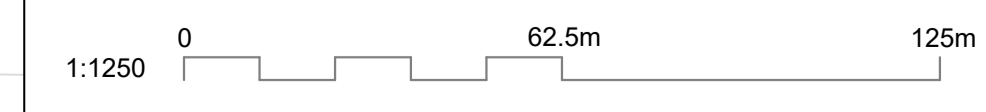
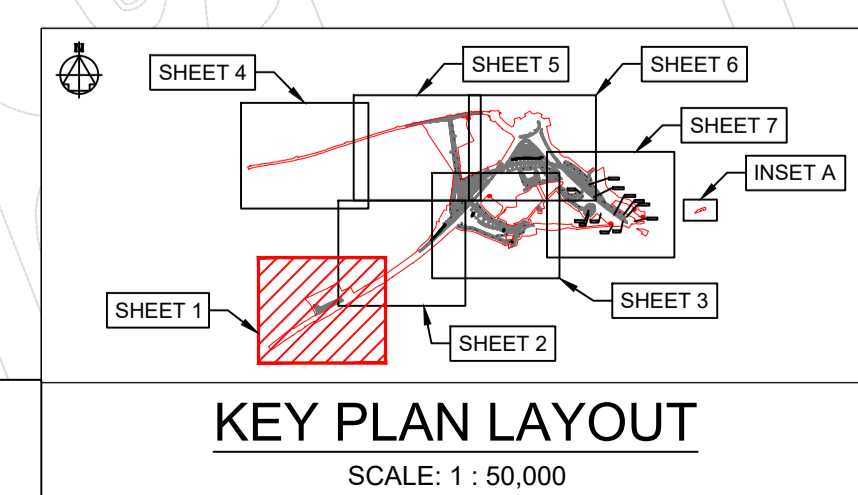
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DRAWINGS  
REGULATIONS 5(2)(o) AND 5(2)(p)  
SHEET 1 OF 7**

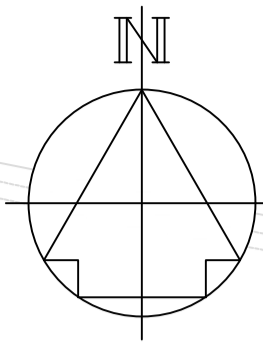
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Purpose of use	
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<b>TR010037/APP/2.8(C)</b>	
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.	
<b>KEY TO SYMBOLS</b>	
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	AREA NOT INCLUDED IN THE ORDER LIMITS
	SCHEME DESIGN
	FILTER DRAIN
	CARRIER DRAIN
	NARROW FILTER DRAIN / FIN DRAIN
	SURFACE WATER CHANNEL
	COMBINED KERB DRAINAGE
	LINEAR DRAINAGE SYSTEM
	RISING MAIN
	PRE-EARTHWORKS DRAINAGE DITCH
	CATCHPIT / MANHOLE
	GULLY & CONNECTOR
	PROPOSED HEADWALL
	BYPASS INTERCEPTORS
	PUMP SHAFT
	CULVERT / PIPE CROSSING
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C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
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DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE  
**A47/A11 THICKTHORN JUNCTION**

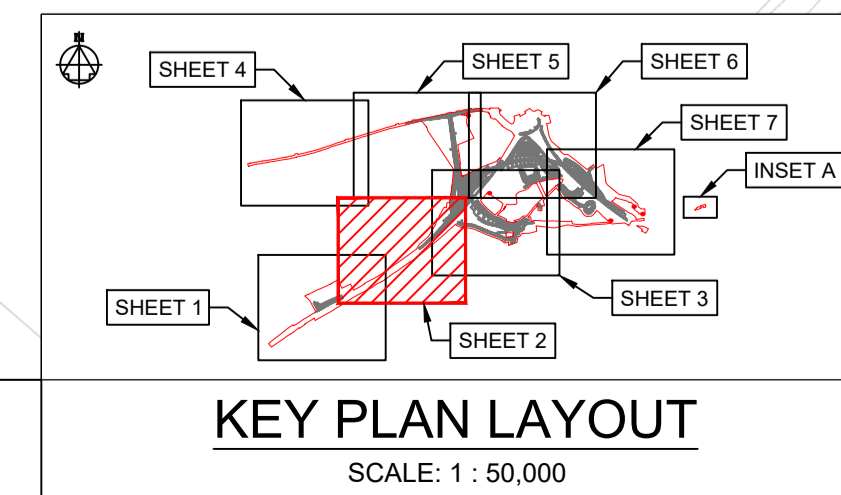
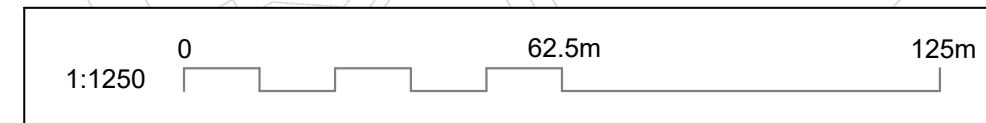
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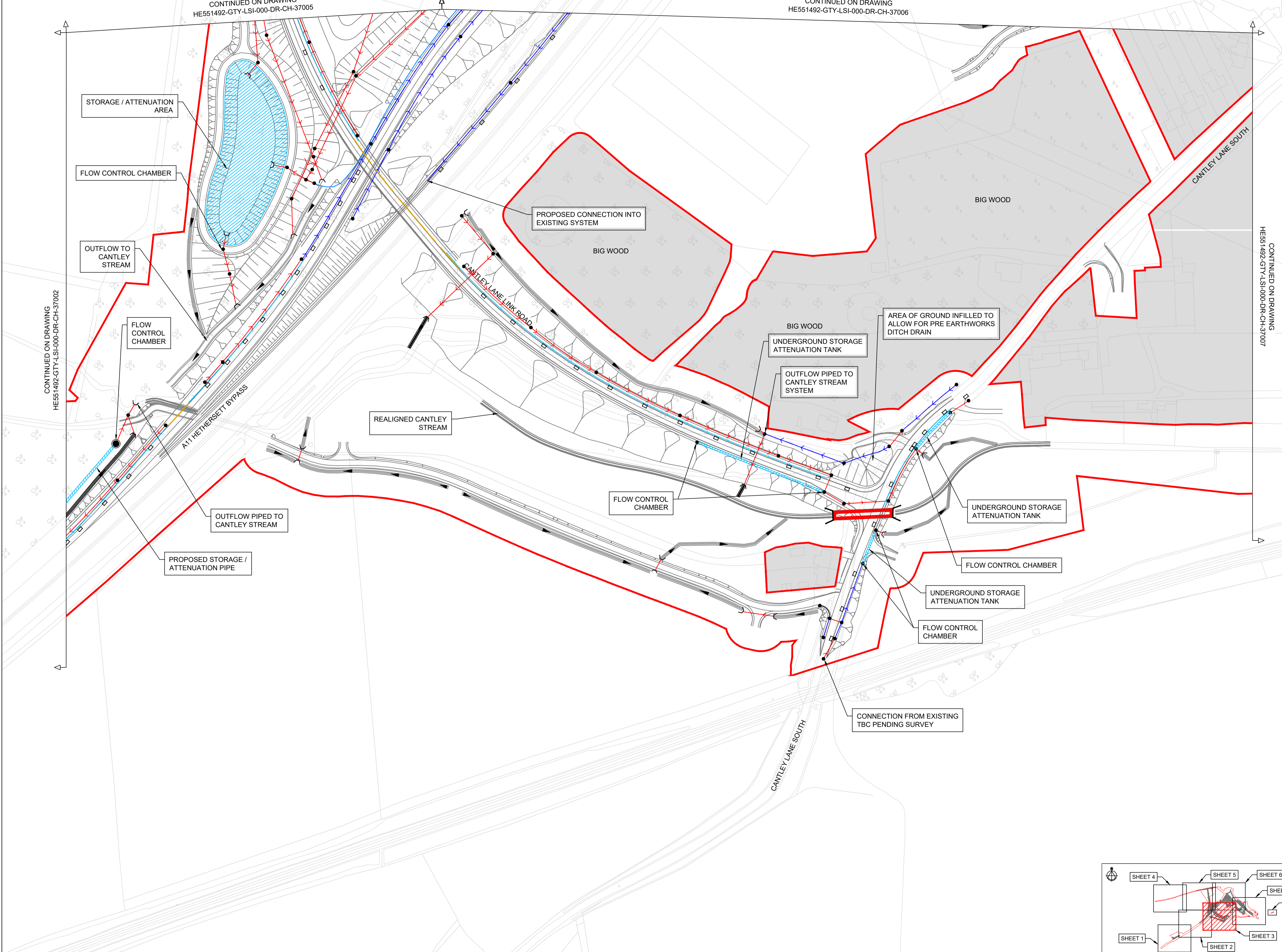
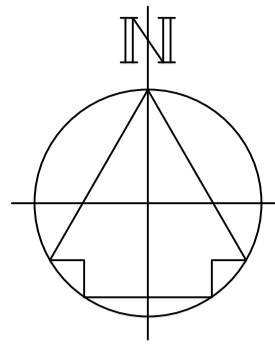
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**NOTES**

Purpose of use  
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Development Consent Order Number / Document  
**TR010037/APP/2.8(D)**

- ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.

**KEY TO SYMBOLS**

	ORDER LIMITS
	AREA NOT INCLUDED IN THE ORDER LIMITS
	SCHEME DESIGN
	FILTER DRAIN
	CARRIER DRAIN
	NARROW FILTER DRAIN / FIN DRAIN
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	ATTENUATION STORAGE TANK / AREA

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P04	30/03/21	DCO SUBMISSION	AKno	JHar	BWll
C01	30/03/21	DCO SUBMISSION	AKno	JHar	BWll

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CONTRACTOR

CLIENT

PROJECT TITLE  
**A47/A11 THICKTHORN JUNCTION**

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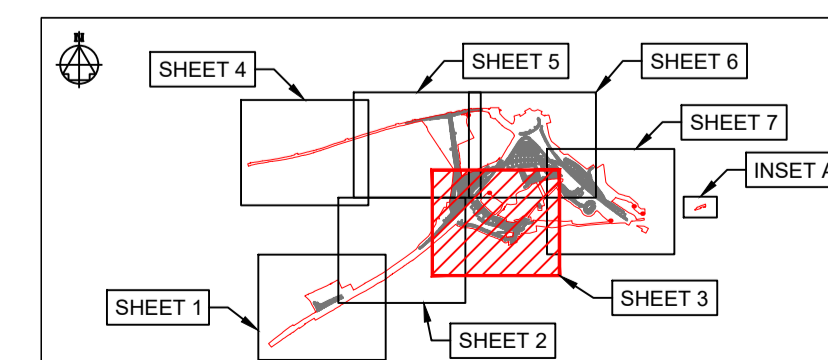
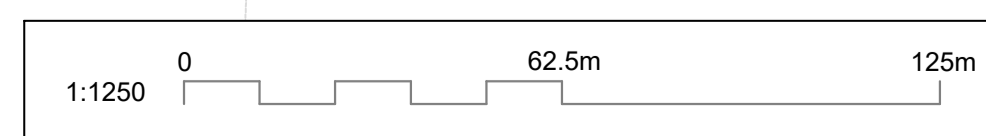
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SUITABILITY  
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<b>TR010037/APP/2.8(E)</b>	
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.	
<b>KEY TO SYMBOLS</b>	
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	SCHEME DESIGN
	FILTER DRAIN
	CARRIER DRAIN
	NARROW FILTER DRAIN / FIN DRAIN
	SURFACE WATER CHANNEL
	COMBINED KERB DRAINAGE
	LINEAR DRAINAGE SYSTEM
	RISING MAIN
	PRE-EARTHWORKS DRAINAGE DITCH
	CATCHPIT / MANHOLE
	GULLY & CONNECTOR
	PROPOSED HEADWALL
	BYPASS INTERCEPTORS
	PUMP SHAFT
	CULVERT / PIPE CROSSING
	ATTENUATION STORAGE TANK / AREA

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P03	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
C01	15/03/21	DCO SUBMISSION	ACus	JHar	BWll

DESIGNER

**SWECO**

CONTRACTOR

**GallifordTry**

CLIENT

**highways  
england**

PROJECT TITLE

**A47/A11 THICKTHORN JUNCTION**

PROJECT STAGE

**PCF STAGE 3**

DRAWING TITLE

**DRAINAGE ENGINEERING  
DRAWINGS  
REGULATIONS 5(2)(o) AND 5(2)(p)  
SHEET 4 OF 7**

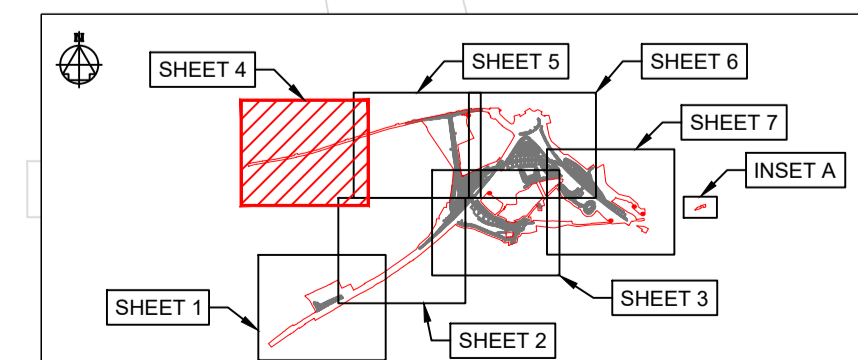
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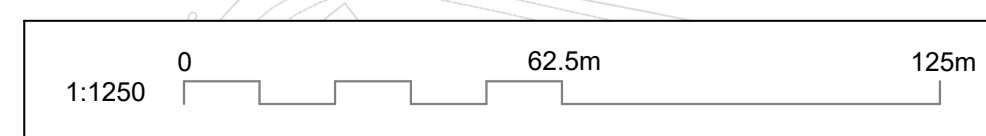
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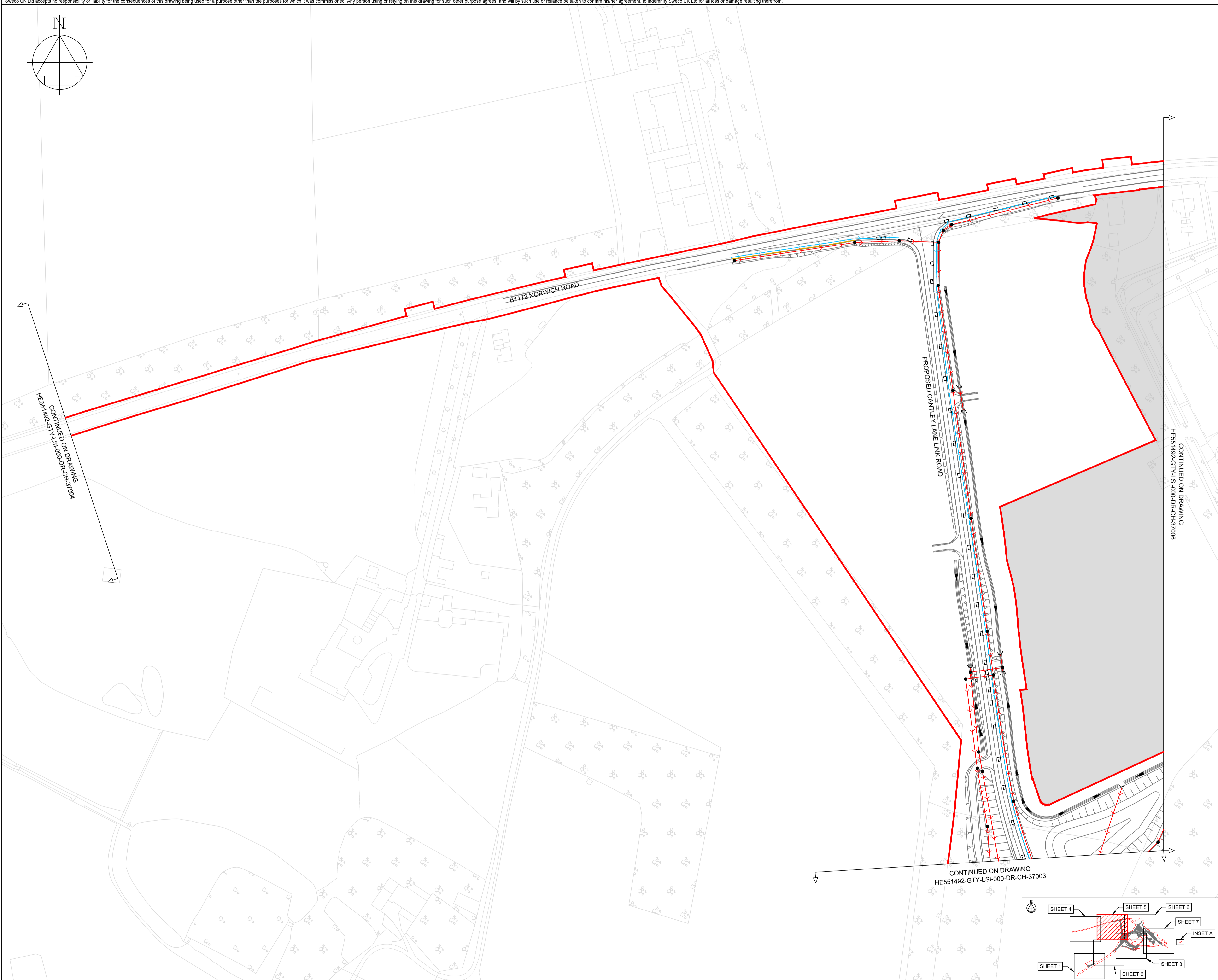
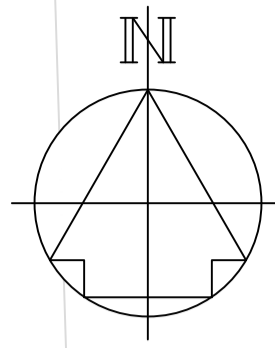
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**KEY PLAN LAYOUT**  
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**NOTES**

Purpose of use  
**FOR DCO SUBMISSION**

Development Consent Order Number / Document  
**TR010037/APP/2.8(F)**

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.

**KEY TO SYMBOLS**

- ORDER LIMITS
- AREA NOT INCLUDED IN THE ORDER LIMITS
- SCHEME DESIGN
- FILTER DRAIN
- CARRIER DRAIN
- NARROW FILTER DRAIN / FIN DRAIN
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REV	DATE	REVISION NOTE	ORG	CHKD	APPD
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C01	30/03/21	DCO SUBMISSION	AKno	JHar	BWll

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE  
**A47/A11 THICKTHORN JUNCTION**

PROJECT STAGE  
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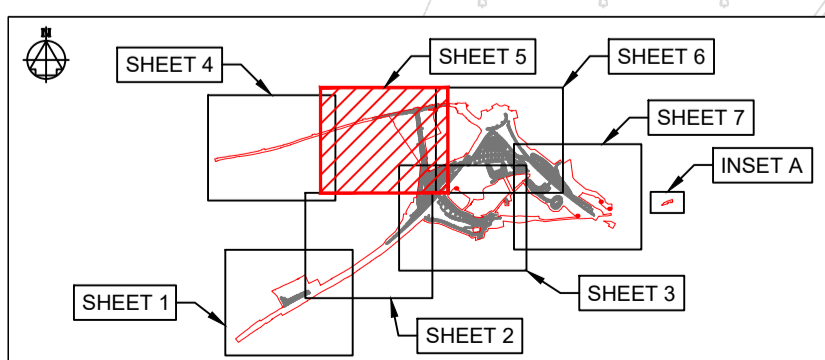
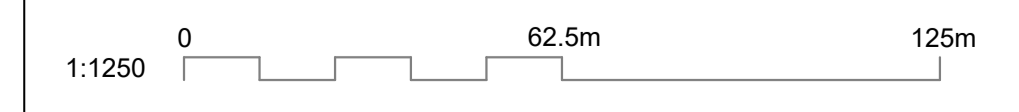
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SUITABILITY  
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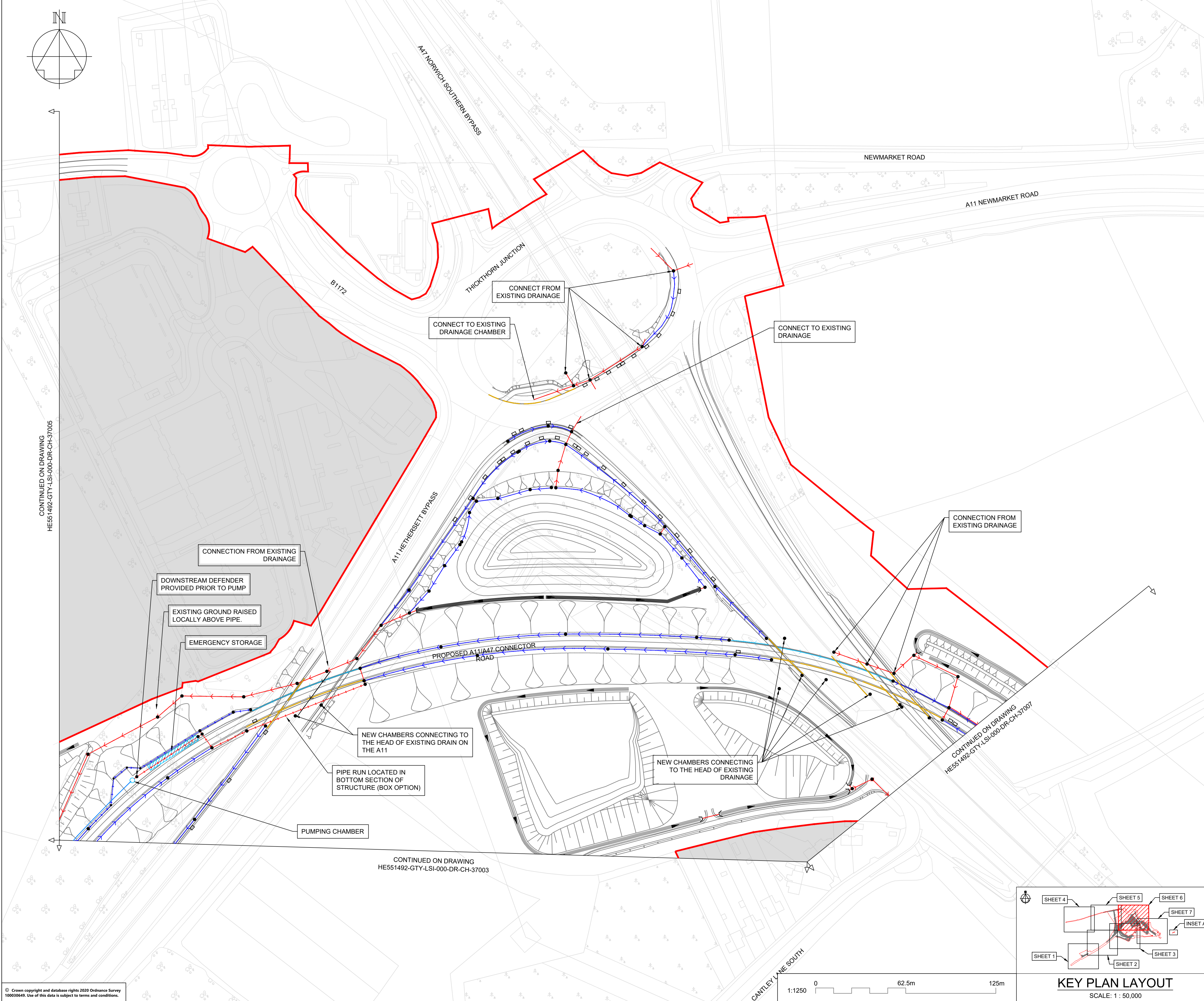
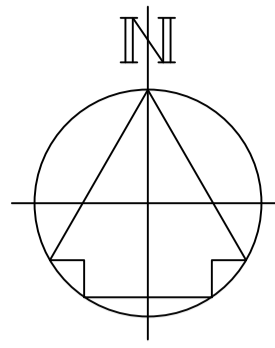
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**KEY PLAN LAYOUT**  
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CONTINUED ON DRAWING  
HE551492-GTY-LSI-000-DR-CH-37003

CONTINUED ON DRAWING  
HE551492-GTY-LSI-000-DR-CH-37007

<b>NOTES</b>	
Purpose of use	
<b>FOR DCO SUBMISSION</b>	
Development Consent Order Number / Document	
<b>TR010037/APP/2.8(G)</b>	
1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.	
<b>KEY TO SYMBOLS</b>	
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	SURFACE WATER CHANNEL
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	RISING MAIN
	PRE-EARTHWORKS DRAINAGE DITCH
	CATCHPIT / MANHOLE
	GULLY & CONNECTOR
	PROPOSED HEADWALL
	BYPASS INTERCEPTORS
	PUMP SHAFT
	CULVERT / PIPE CROSSING
	ATTENUATION STORAGE TANK / AREA

P01	10/11/20	FOR INFORMATION	AKno	JHar	JHar
P02	10/12/20	DESIGN UPDATE	DPil	JHar	JHar
P03	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
P04	30/03/21	DCO SUBMISSION	AKno	JHar	BWll
C01	30/03/21	DCO SUBMISSION	AKno	JHar	BWll
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

DESIGNER

**SWECO**

CONTRACTOR

CLIENT

PROJECT TITLE

**A47/A11 THICKTHORN JUNCTION**

PROJECT STAGE

**PCF STAGE 3**

DRAWING TITLE

**DRAINAGE ENGINEERING  
DRAWINGS  
REGULATIONS 5(2)(o) AND 5(2)(p)  
SHEET 6 OF 7**

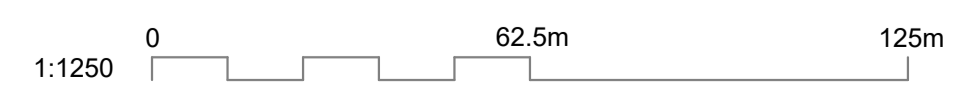
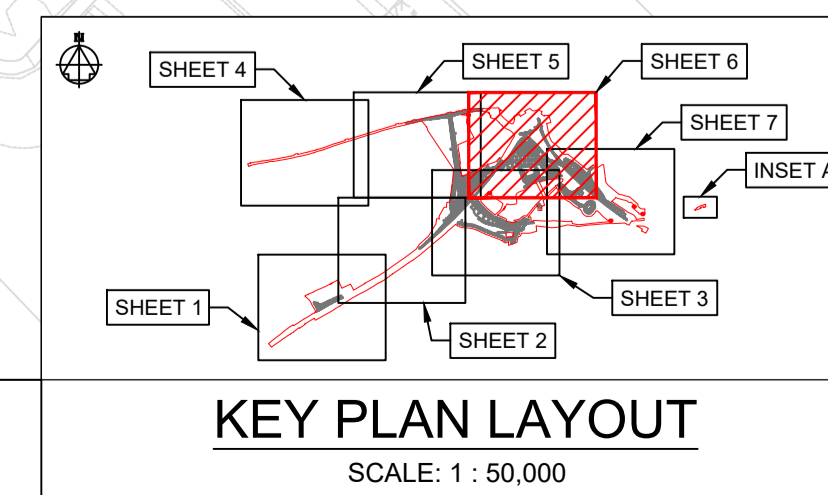
SUITABILITY

**AUTHORISED AS STAGE 3 COMPLETED**

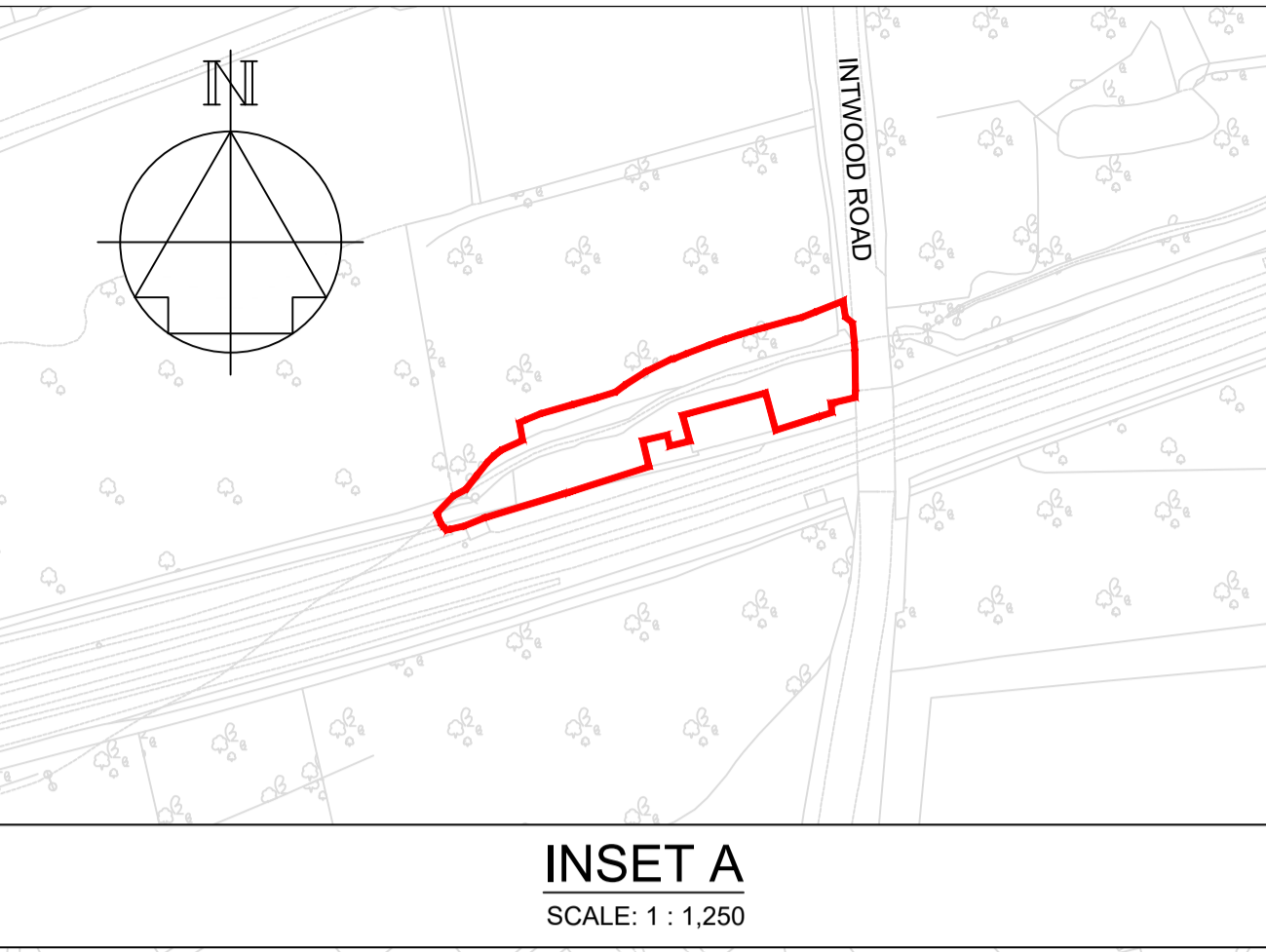
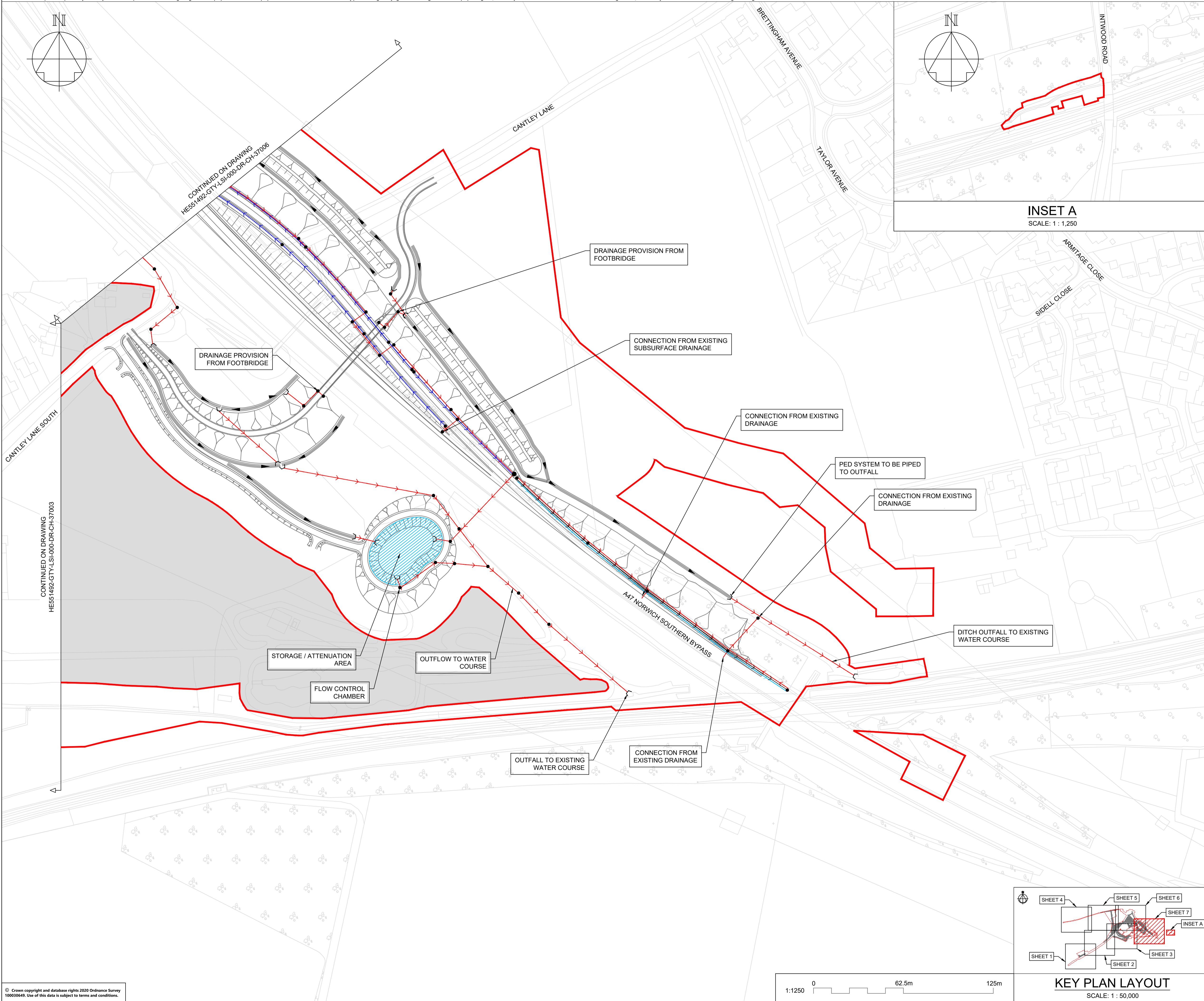
SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER

**HE551492-GTY-LSI-000-DR-CH-37006**



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**NOTES**

Purpose of use  
**FOR DCO SUBMISSION**

Development Consent Order Number / Document  
**TR010037/APP/2.8(H)**

1. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE.

**KEY TO SYMBOLS**

- ORDER LIMITS
- AREA NOT INCLUDED IN THE ORDER LIMITS
- SCHEME DESIGN
- FILTER DRAIN
- CARRIER DRAIN
- NARROW FILTER DRAIN / FIN DRAIN
- SURFACE WATER CHANNEL
- COMBINED KERB DRAINAGE
- LINEAR DRAINAGE SYSTEM
- RISING MAIN
- PRE-EARTHWORKS DRAINAGE DITCH
- CATCHPIT / MANHOLE
- GULLY & CONNECTOR
- ⌋ PROPOSED HEADWALL
- BYPASS INTERCEPTORS
- PUMP SHAFT
- CULVERT / PIPE CROSSING
- ATTENUATION STORAGE TANK / AREA

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	10/11/20	FOR INFORMATION	AKno	JHar	JHar
P02	10/12/20	DESIGN UPDATE	DPil	JHar	JHar
P03	15/03/21	DCO SUBMISSION	ACus	JHar	BWll
P04	30/03/21	DCO SUBMISSION	AKno	JHar	BWll
C01	30/03/21	DCO SUBMISSION	AKno	JHar	BWll

DESIGNER  
**SWECO**

CONTRACTOR  
**GallifordTry**

CLIENT  
**highways england**

PROJECT TITLE  
**A47/A11 THICKTHORN JUNCTION**

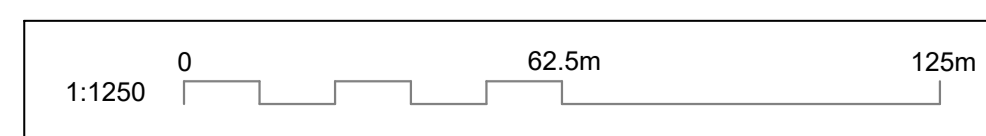
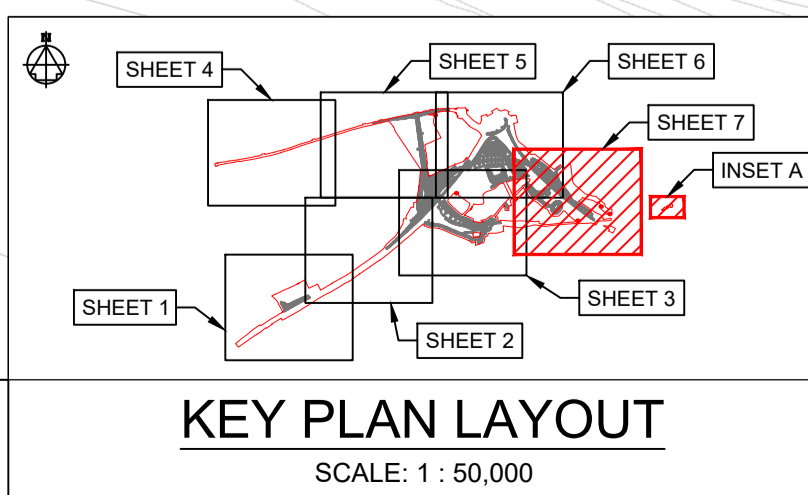
PROJECT STAGE  
**PCF STAGE 3**

DRAWING TITLE  
**DRAINAGE ENGINEERING DRAWINGS REGULATIONS 5(2)(o) AND 5(2)(p) SHEET 7 OF 7**

SUITABILITY  
**AUTHORISED AS STAGE 3 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C01

DRAWING NUMBER  
**HE551492-GTY-LSI-000-DR-CH-37007**



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