

**RESIDUAL DESIGN HAZARDS**

THE FOLLOWING HAS BEEN COLLECTED FROM THE PRE-CONSTRUCTION INFORMATION AND HIGHLIGHTS KNOWN RESIDUAL HAZARDS.

**KEY**

HS-# = HEALTH AND SAFETY RISK REFERENCE NUMBER  
E-# = ENVIRONMENT RISK REFERENCE NUMBER

HS-01 - GANTRY  
HS-02 - UNDERBRIDGE  
HS-03 - OIL PIPELINE  
HS-04 - CCTV MAST  
HS-05 - OVERHEAD ELECTRICITY CABLES  
HS-06 - WATERCOURSE  
HS-07 - GAS PIPELINE  
HS-08 - OVERBRIDGE  
HS-09 - CULVERT  
HS-10 - M.O.D. PIPELINE

- NOTES**
1. THIS IS A C.A.D. DRAWING AND SHOULD NOT BE AMENDED BY HAND.
  2. DO NOT SCALE FROM THIS DRAWING. USE STATED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
  3. THIS DRAWING SHOULD BE PRINTED AND READ IN COLOUR ONLY.
  4. THE UTILITIES INDICATED ON THIS DRAWING HAS BEEN PREPARED FOR INFORMATION ONLY AND IS NOT TO BE USED FOR CONSTRUCTION/SITE INVESTIGATION OR LOCATING SERVICES.
  5. THIS INFORMATION HAS BEEN COMPILED FROM THE HADMS DATA BASE. KIER TAKES NO RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.
  6. TO BE READ IN CONJUNCTION WITH THE STATUTORY UNDERTAKERS PLANS, DRAWINGS NO. HE570131-KIER-GEN-M5\_TYS\_LOOP-DE-CH-000001 TO 000003.

**DRAINAGE KEY**

SURFACE CHANNEL  
SUB-SURFACE PIPE  
COMBINED SURFACE AND SUB-SURFACE PIPE  
CULVERT  
MANHOLE  
GULLY  
CATCHPIT  
OUTLET

**STATS KEY**

GAS (ABANDONED)  
GAS (MEDIUM PRESSURE)  
TELEPHONE UNDERGROUND  
ELECTRICITY OVERHEAD  
ELECTRICITY UNDERGROUND  
WATER SUPPLIES  
SEWERS  
MOTORWAY COMMS  
OIL PIPELINE  
MARKER NODES  
TRAFFIC LOOPS

C2	REVISED DRAINAGE INFO	AM	GR	14/07/2021
C1	FIRST ISSUE	DF	MO	07/05/2020
REV	DETAILS	CHKD	APPD	DATE

DRAWING NUMBER				SCHEME REFERENCE No.	
PROJECT	ORIGINATOR	VOLUME		570131	
HE570131	KIER	HDG			
M5_TYS_LOOP	DE	CH	050001	REVISION	
LOCATION	TYPE	ROLE	NUMBER	C 2	

CLIENT: **highways england**

AGENT: **KIER**

SCHEME NAME: **570131B VRS GATEWAY 1A STUDY 2019-2020**

SCHEME 2 - M5 J18 T, Y & S LOOP

DRAWING TITLE: **EXISTING DRAINAGE (SHEET 1 OF 3)**

DRAWN: SA  
DESIGN: SA  
CHKD: DF  
APPD: MO  
DATE: 07/05/20  
SUITABILITY: S2

SCALE: 1:500  
DIMENSIONS: m  
ORIG DWG SIZE: A1  
COPYRIGHT © KIER

DRAWING STATUS: WORK IN PROGRESS  
PRELIMINARY DRAWING  
EXTERNAL ISSUE  
AS-BUILT

FOR INFORMATION



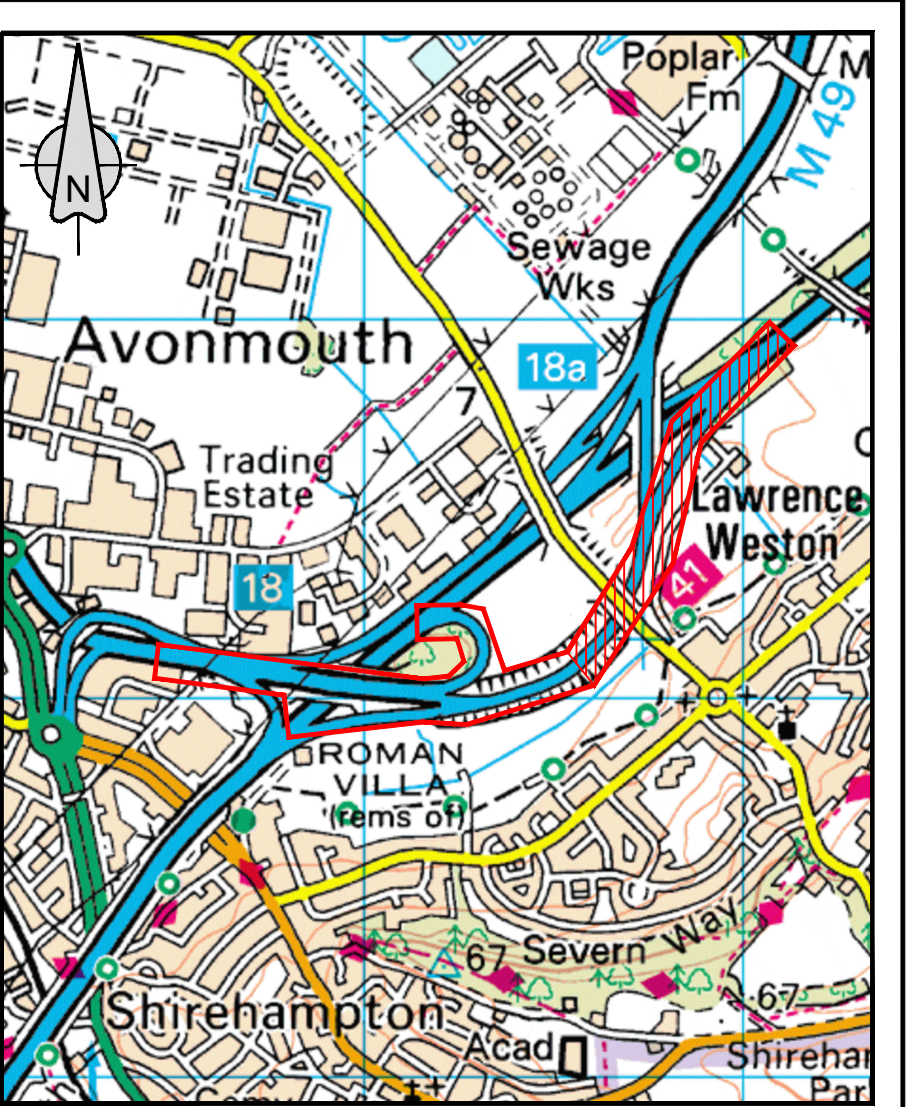
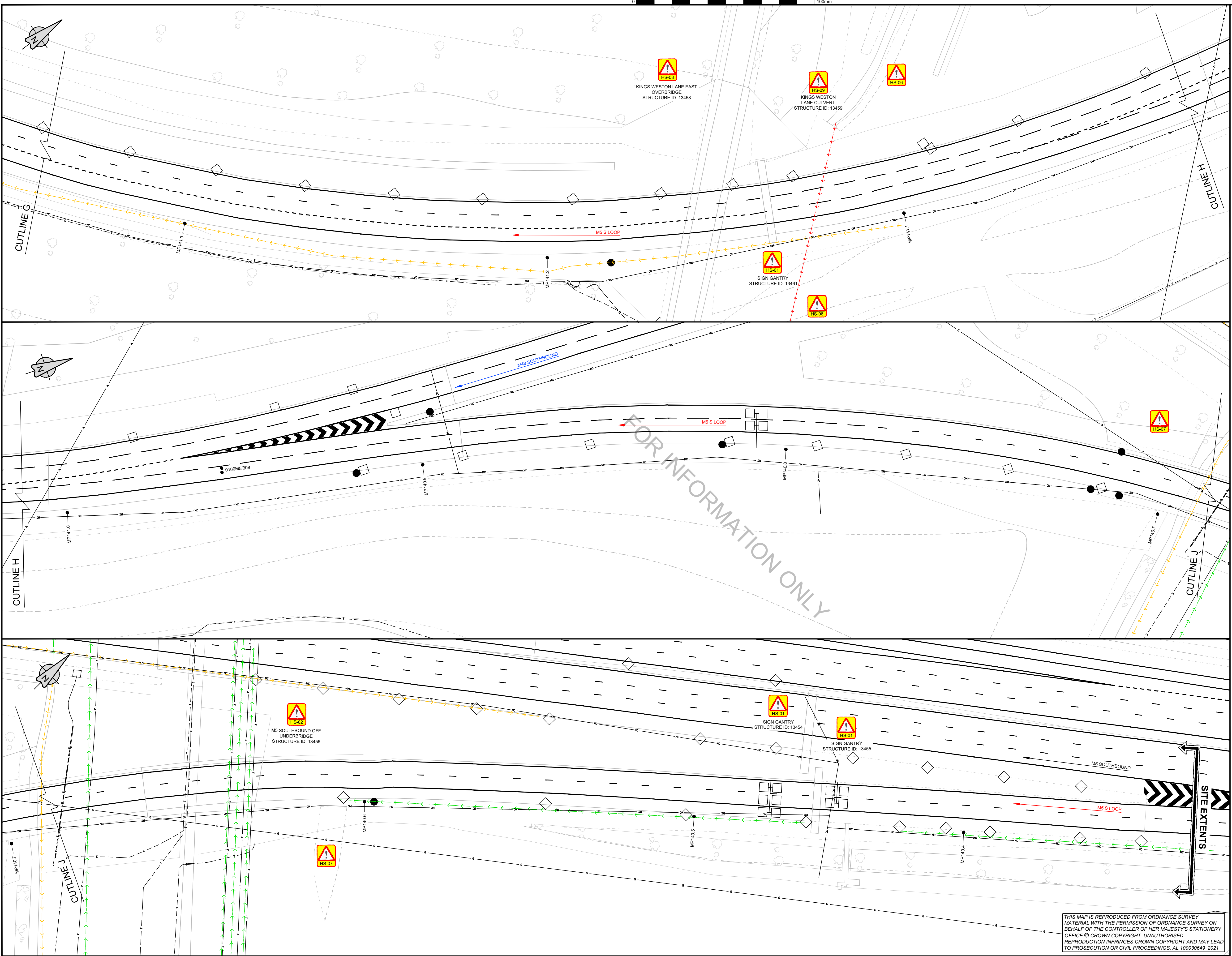
DRAWING NUMBER				SCHEME REFERENCE No.	
PROJECT	ORIGINATOR	VOLUME		570131	
HE570131	KIER	HDG			
M5_TYS_LOOP - DE - CH -				REVISION	
050002				C 2	
LOCATION	TYPE	ROLE	NUMBER		

AGENT  
 **KIER**

SCHEME NAME	570131B VRS GATEWAY 1A STUDY 2019-2020 SCHEME 2 - M5 J18 T, Y & S LOOP
DRAWING TITLE	EXISTING DRAINAGE (SHEET 2 OF 3)

DRAWN : SA	SCALE : 1:500	DRAWING STATUS	
DESIGN : SA	DIMENSIONS : m	WORK IN PROGRESS	
CHKD : DF	ORIG DWG SIZE: A1	PRELIMINARY DRAWING	
APPD : MO	COPYRIGHT © KIER	EXTERNAL ISSUE	✓
DATE : 07/05/20		AS-BUILT	
SUITABILITY: S2		FOR INFORMATION	





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C2	UPDATED DRAINAGE INFO	AM	GR	14/07/2021
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REV	DETAILS	CHKD	APPD	DATE

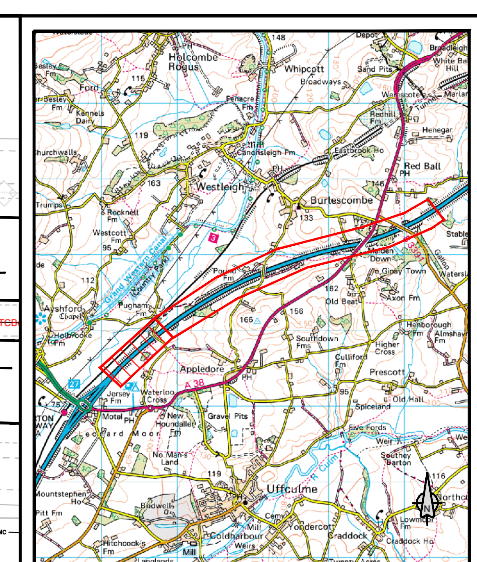


SCHEME NAME  
**570131B VRS GATEWAY 1A STUDY 2019-2020**  
**SCHEME 2 - M5 J18 T, Y & S LOOP**  
DRAWING TITLE  
**EXISTING DRAINAGE**  
**(SHEET 3 OF 3)**

DRAWN : SA	SCALE : 1:500	DRAWING STATUS
DESIGN : SA	DIMENSIONS : m	WORK IN PROGRESS
CHKD : DF	ORIG DWG SIZE: A1	PRELIMINARY DRAWING
APPD : MO	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 07/05/20		AS-BUILT
SUITABILITY: S2	FOR INFORMATION	

DRAWING NUMBER	PROJECT	ORIGINATOR	VOLUME	SCHEME REFERENCE No.
HE570131	-	KIER	- HDG	570131
M5_TYS_LOOP - DE - CH -	050003			REVISION
LOCATION	TYPE	ROLE	NUMBER	C 2





	DRAWING NUMBER			SCHEME REFERENCE No.
	PROJECT   ORIGINATOR   VOLUME			570131
✓	HE570131 - KIER - HRR			
	M5_225.6_230.5 - DE - CH - 010001			REVISION
	LOCATION   TYPE   ROLE   NUMBER			C 2

DRAWN : SA	SCALE : 1:500	DRAWING STATUS
DESIGN : SA	DIMENSIONS : m	WORK IN PROGRESS
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING
APPD : SR	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 22/02/2021		AS-BUILT
SUITABILITY: A		FOR CONSTRUCTION