

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 - OVERBRIDGE
HS-02 - UNDERBRIDGE
HS-03 - WATERCOURSE
HS-04 - OVERHEAD ELECTRICITY CABLES
HS-05 - GAS MAINS
HS-06 - GANTRY
HS-07 - OVERHEAD TELEPHONE CABLES
HS-08 - ABANDONED GAS PIPELINE
HS-09 - CULVERT

- NOTES
- THIS IS A C.A.D. DRAWING AND SHOULD NOT BE AMENDED BY HAND.
 - DO NOT SCALE FROM THIS DRAWING. USE STATED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
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 - THE UTILITIES INDICATED ON THIS DRAWING HAVE BEEN PREPARED FOR INFORMATION ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION/SITE INVESTIGATION OR LOCATING SERVICES.
 - OVERHEAD CABLE HEIGHTS TO BE CONFIRMED AND RECORDED BY WAY OF SIGNATURE AND DATE BY A TRAINED AND COMPETENT PERSON.
 - KIER TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN ON THIS DRAWING, WHICH HAS BEEN COMPILED FROM PLANS PROVIDED BY THE UTILITY COMPANIES. THE LOCATION OF ALL SERVICES MUST BE CONFIRMED WITH THE RELEVANT SERVICE PROVIDER PRIOR TO UNDERTAKING ANY WORKS.
 - THE TOPOGRAPHICAL SURVEY IS TO COVER THE CENTRAL RESERVE FROM LANE SOUTHBOUND 3 RIB TO LANE 3 NORTHBOUND RIB.
 - MARKER POSTS ARE SHOWN FOR INDICATIVE PURPOSE ONLY. CHAINAGES SHOWN ON THIS DRAWING HAVE BEEN SET OUT EVERY 20m ALONG THE CHART SECTIONS INDICATED THROUGHOUT THE EXTENTS OF THE WORKS.
 - TRIAL HOLES LOCATED AT THE STRUCTURES ARE TO DETERMINE THE DEPTH OF BRIDGE PIER FOUNDATIONS AND OFFSET OF FOUNDATION EDGE FROM THE FACE OF THE BRIDGE PIER.
 - DRAINAGE CONNECTIVITY SURVEY IS FOR ALL DRAINAGE ASSETS IN A DRAINAGE SYSTEM, WHICH MAY ALSO INCLUDE DRAINAGE INFRASTRUCTURE OUTSIDE OF THE SURVEY AREA E.G. OUTFALLS.
 - FOR DRAINAGE SERVICES INFORMATION REFER TO DRAWINGS NO. HE570131-KIER-HRR-M5_225.6_230.5-DE-CH-050001 TO 050005. THIS INFORMATION HAS BEEN COMPILED FROM THE HADONS DATA BASE. KIER TAKES NO RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.

KEY	
GAS (MEDIUM PRESSURE)	— GMP —
GAS (ABANDONED)	— G —
ELECTRICITY OVERHEAD	— EOH —
ELECTRICITY UNDERGROUND	— E —
TELEPHONE OVERHEAD	— T —
TELEPHONE UNDERGROUND	— T —
MOTORWAY COMMS	— MC —
WATER SUPPLIES	— W —
SEWERS	— S —
TRAFFIC LOOPS	— TL —
MARKER NODES	— MN —
DSTCB	— DSTCB —
SSTCB	— SSTCB —
CHANGE IN VRS TYPE	— C —
LINEAR DRAINAGE	— LD —
MANHOLE	— M —
GULLY	— G —
CATCHPIT	— CP —
SURVEY AREA (DRAINAGE, DUCT AND ASBESTOS REFURBISHMENT SURVEY) (202m²)	— SA —
SURVEY AREA (TOPOGRAPHIC, DUCT AND ASBESTOS REFURBISHMENT SURVEY) (4,336m²)	— SA —
TRIAL HOLE STATS SURVEY & SOIL SAMPLING (2 No.)	— TH —
TRIAL HOLE SURVEY (STRUCTURES) (3 No.)	— TH —
SOIL SAMPLING & DCP (4 No.)	— TH —
SOIL SAMPLING (16 No.)	— TH —
PAVEMENT CORE (5 No.)	— TH —
HARD SURFACING	— HS —

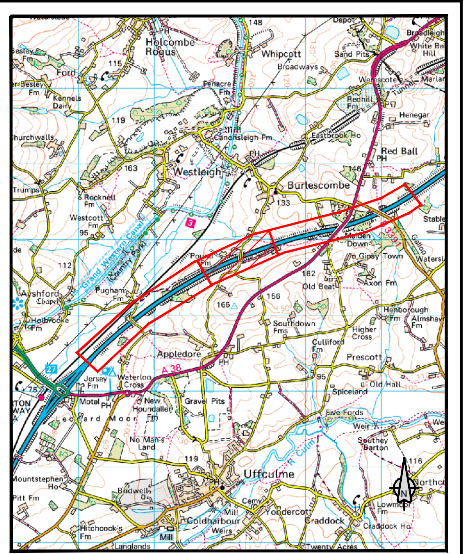
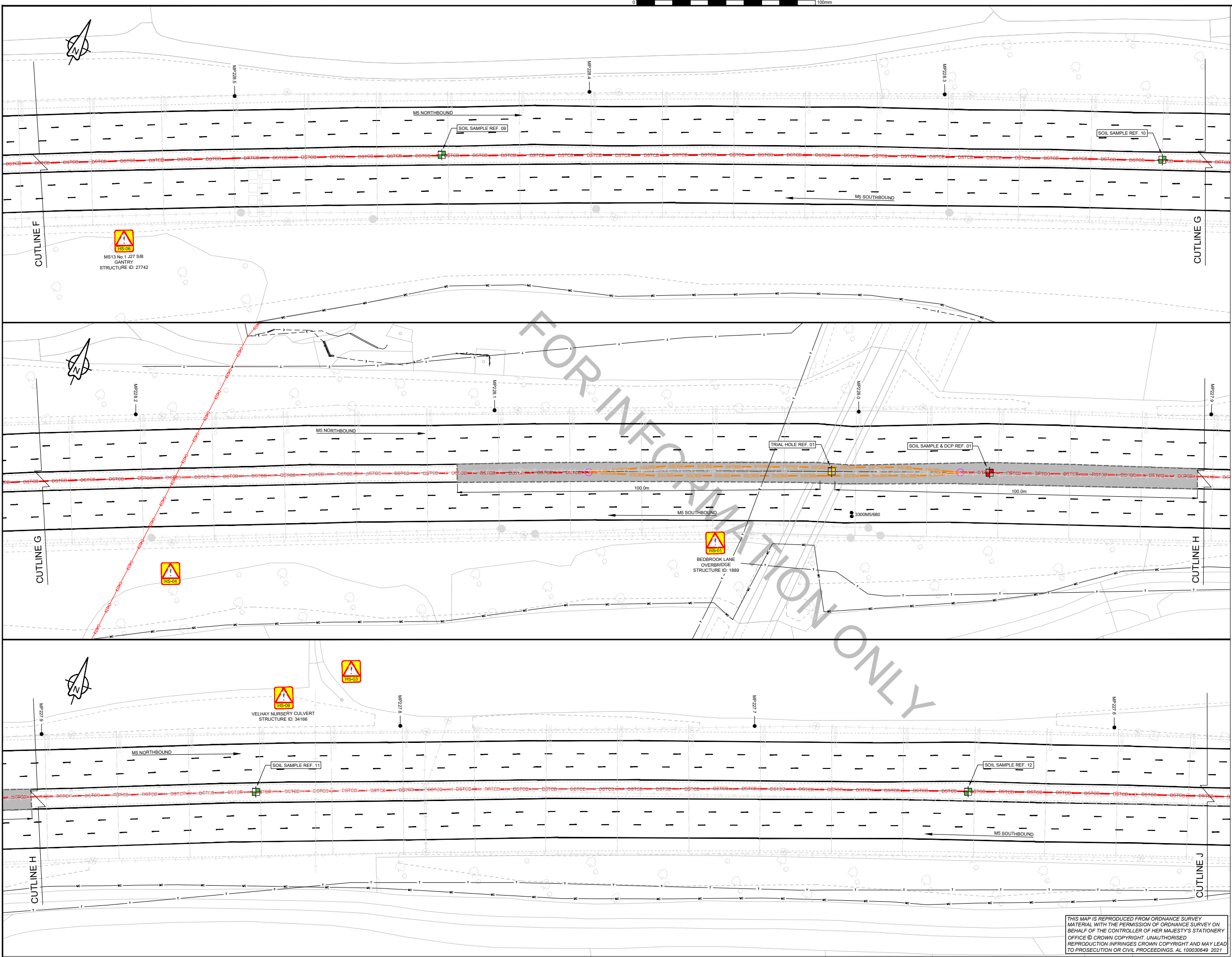
C2	REDUCED SURVEY SCOPE	AM	GR	11/07/2021
C1	FIRST ISSUE	SC	SR	22/02/2021
REV	DETAILS	CHKD	APPD	DATE



SCHEME NAME	570131B VRS GATEWAY 1A STUDY 2019-2020 SCHEME 10 - M5 J26 TO J27 MP 225.6-230.5 CENTRAL RESERVATION SURVEYS (SHEET 2 OF 5)
DRAWING TITLE	

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	

DRAWING NUMBER	PROJECT ORIGINATOR VOLUME	SCHEME REFERENCE No.
HE570131 - KIER - HRR		570131
M5_225.6_230.5 - DE - CH - 010002		REVISION
LOCATION TYPE ROLE NUMBER		C 2



RESIDUAL DESIGN HAZARDS
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	E-#	= ENVIRONMENT RISK REFERENCE NUMBER

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11. FOR DRAINAGE SERVICES INFORMATION REFER TO DRAWINGS NO. HE570131-KIER-HRR-M5_225.6_230.5-DE-CH-010001 TO 010005. THIS INFORMATION HAS BEEN COMPILED FROM THE HADOMIS DATA BASE. KIER TAKES NO RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.

KEY
GAS (MEDIUM PRESSURE) ——— G
GAS (ABANDONED) ——— G
ELECTRICITY OVERHEAD ——— EOH
ELECTRICITY UNDERGROUND ——— EUG
TELEPHONE OVERHEAD ——— T
TELEPHONE UNDERGROUND ——— T
MOTORWAY COMMS ——— MC
WATER SUPPLIES ——— W
SEWERS ——— S
TRAFFIC LOOPS ——— TL
MARKER NODES ——— MN
DSTCB ——— DSTCB
SSTCB ——— SSTCB
CHANGE IN VRS TYPE ——— C
LINEAR DRAINAGE ——— L
MANHOLE ——— M
GULLY ——— G
CATCHPIT ——— C
SURVEY AREA (DRAINAGE, DUCT AND ASBESTOS REFURBISHMENT SURVEY) (202m²) ——— S
SURVEY AREA (TOPOGRAPHIC, DUCT AND ASBESTOS REFURBISHMENT SURVEY) (4,336m²) ——— T
TRIAL HOLE STATS SURVEY & SOIL SAMPLING (2 No.) ——— TS
TRIAL HOLE SURVEY (STRUCTURES) (3 No.) ——— TH
SOIL SAMPLING & DCP (4 No.) ——— SD
SOIL SAMPLING (16 No.) ——— S
PAVEMENT CORE (5 No.) ——— PC
HARD SURFACING ——— HS

C2	REDUCED SURVEY SCOPE	AM	GR	11/07/2021
C1	FIRST ISSUE	SC	SR	22/02/2021
REV	DETAILS	CHKD	APPD	DATE

DRAWING NUMBER
PROJECT | ORIGINATOR | VOLUME
HE570131 - KIER - HRR
M5_225.6_230.5 - DE - CH - 010003
LOCATION | TYPE | ROLE | NUMBER

SCHEME REFERENCE No.
570131
REVISION
C 2

CLIENT
highways
england

AGENT
KIER

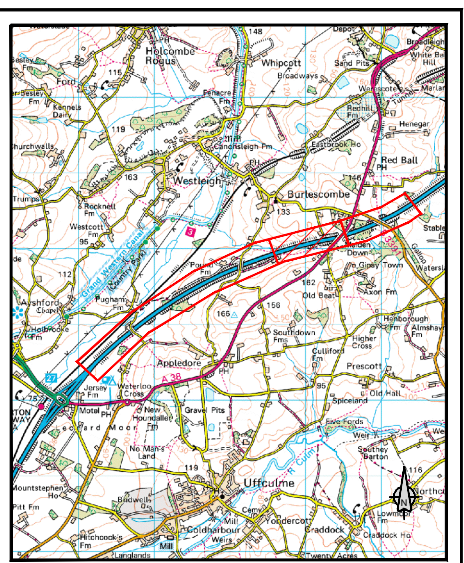
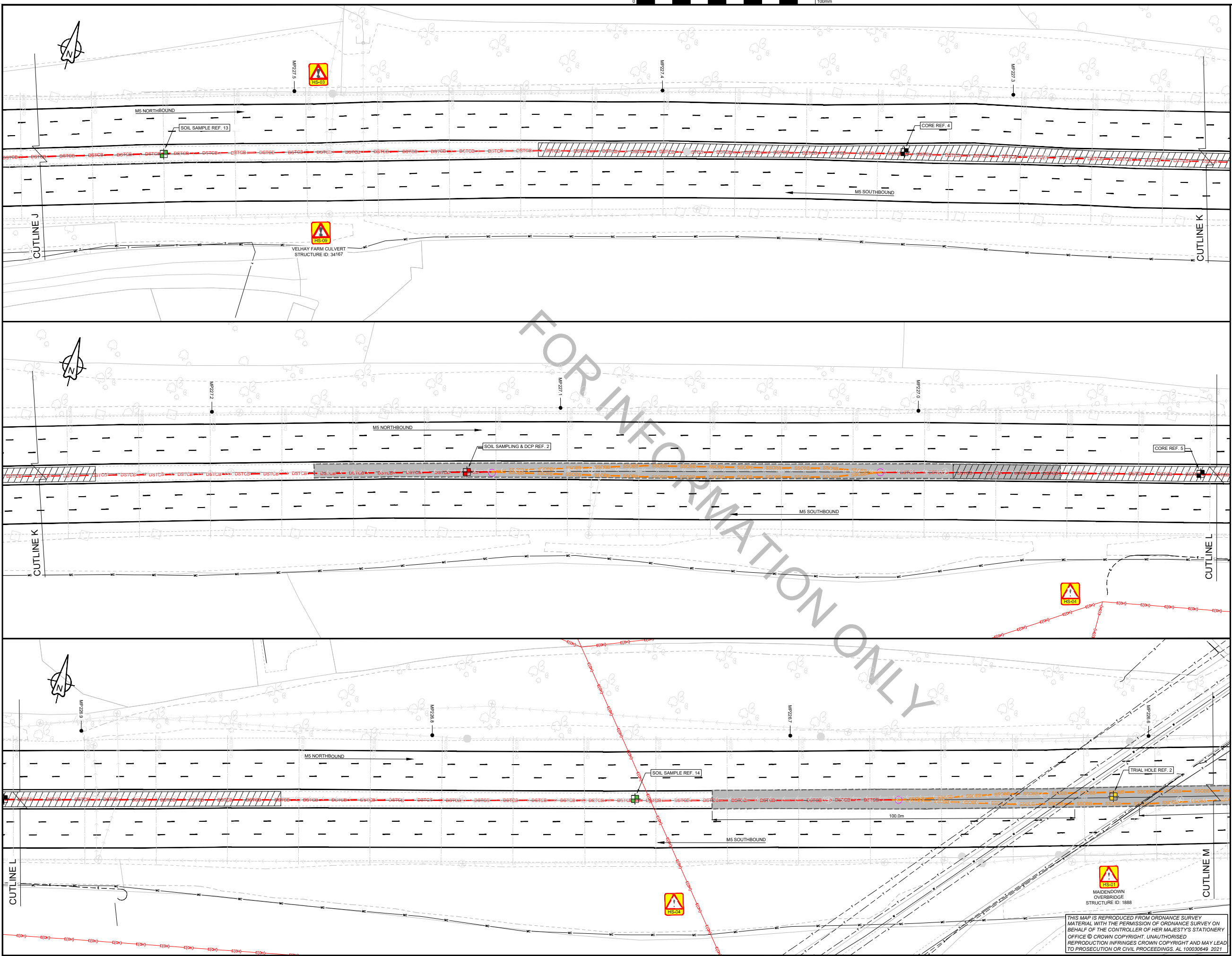
SCHEME NAME
570131B VRS GATEWAY 1A STUDY 2019-2020
SCHEME 10 - M5 J26 TO J27 MP 225.6-230.5
DRAWING TITLE
CENTRAL RESERVATION SURVEYS
(SHEET 3 OF 5)

DRAWN: SA
DESIGN: SA
CHKD: SC
APPD: SR
DATE: 22/02/2021
SUITABILITY: A

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

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

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HS-05 - GAS MAINS
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HS-07 - OVERHEAD TELEPHONE CABLES
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HS-09 - CULVERT

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GAS (MEDIUM PRESSURE) ————
GAS (ABANDONED) ————
ELECTRICITY OVERHEAD ————
ELECTRICITY UNDERGROUND ————
TELEPHONE OVERHEAD ————
TELEPHONE UNDERGROUND ————
MOTORWAY COMMS ————
WATER SUPPLIES ————
SEWERS ————
TRAFFIC LOOPS ————
MARKER NODES ————
DSTCB ————
SSTCB ————
CHANGE IN VRS TYPE ————
LINEAR DRAINAGE ————
MANHOLE ————
GULLY ————
CATCHPIT ————
SURVEY AREA (DRAINAGE, DUCT AND ASBESTOS REPAIR/REPLACEMENT SURVEY) (202m²) ————
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SOIL SAMPLING (16 No.) ————
PAVEMENT CORE (5 No.) ————
HARD SURFACING ————

C2	REDUCED SURVEY SCOPE	AM	GR	11/07/2021
C1	FIRST ISSUE	SC	SR	22/02/2021
REV	DETAILS	CHKD	APPD	DATE

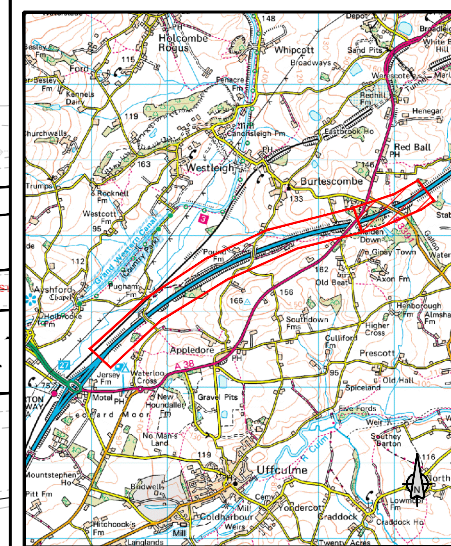
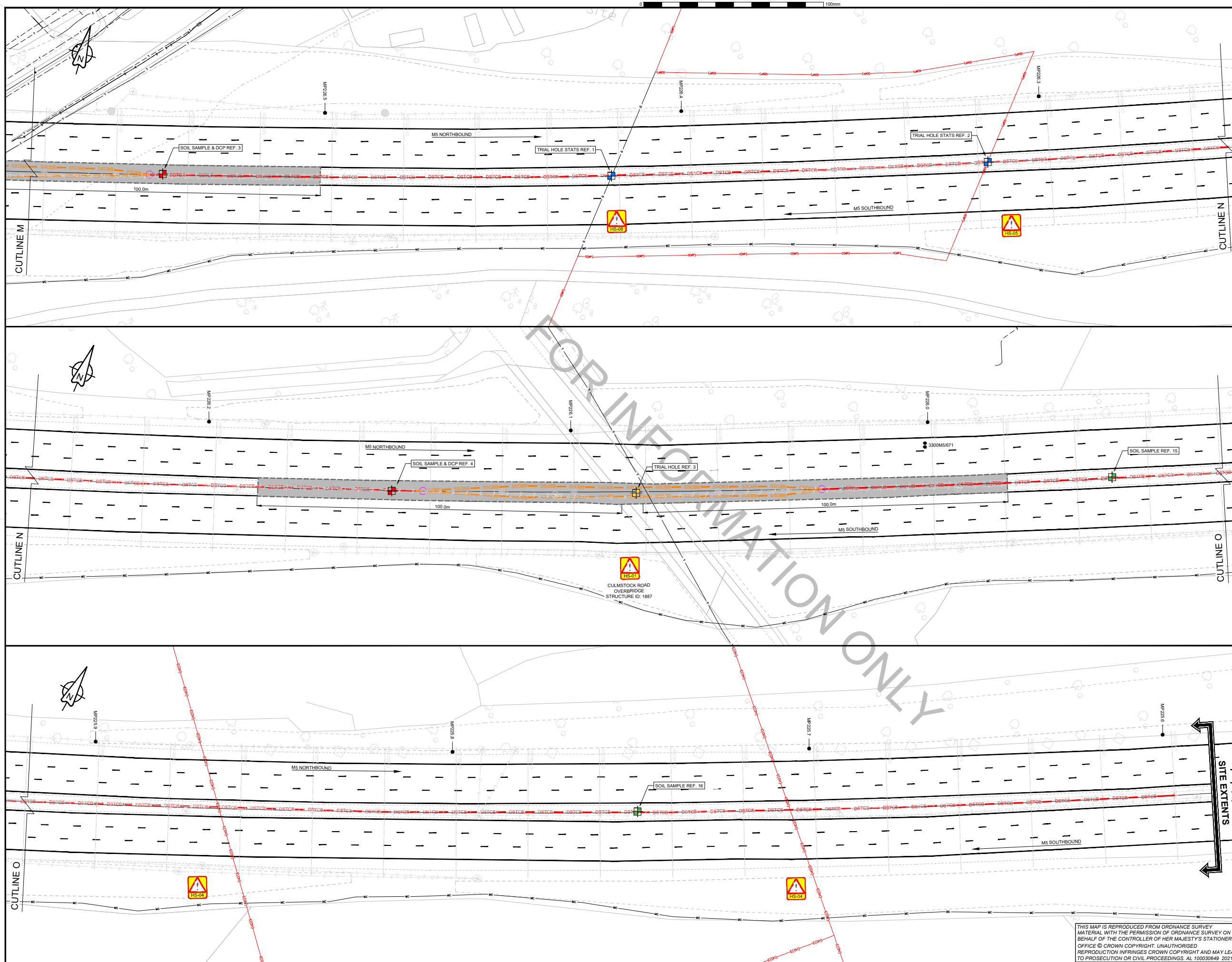
CLIENT
highways
england

AGENT
KIER

SCHEME NAME
570131B VRS GATEWAY 1A STUDY 2019-2020
SCHEME 10 - M5 J26 TO J27 MP 225.6-230.5
DRAWING TITLE
CENTRAL RESERVATION SURVEYS
(SHEET 4 OF 5)

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	

DRAWING NUMBER	SCHEME REFERENCE No.
PROJECT ORIGINATOR VOLUME HE570131 - KIER - HRR	570131
M5_225.6_230.5 - DE - CH - 010004	REVISION
LOCATION TYPE ROLE NUMBER	C 2



LOCATION PLAN
NTS

RESIDUAL DESIGN HAZARDS

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

















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- HS-04 - OVERHEAD ELECTRICITY CABLES
- HS-05 - GAS MAINS
- HS-06 - GANTRY
- HS-07 - OVERHEAD TELEPHONE CABLES
- HS-08 - ABANDONED GAS PIPELINE
- HS-09 - C/IJ VFRT

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8. ANY CHANGES TO THIS DRAWING ARE TO BE PROPOSED ONLY. CHANGES SHOWN ON THIS DRAWING HAVE BEEN SET OUT EVERY 20m along the CHART SECTIONS INDICATED THROUGHOUT THE EXTENTS OF THE WORK.
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11. FOR DRAINAGE SERVICES INFORMATION REFER TO DRAWINGS NO: HE07314-KIER-HRR-MRS 2256, 230 5/05-DC-CH-000001 TO 000505. THIS INFORMATION HAS BEEN OBTAINED FROM THE 2003 HADS DATA BASE. KIER TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED.

KEY

GAS (MEDIUM PRESSURE)		CGP
GAS (ABANDONED)		G
ELECTRICITY OVERHEAD		E/OH
ELECTRICITY UNDERGROUND		E
TELEPHONE OVERHEAD		T
TELEPHONE UNDERGROUND		T
MOTORWAY COMMS		MC
WATER SUPPLIES		W
SEWERS		S
TRAFFIC LOOPS		
MARKER NODES		
DSTCB		DSTCB
SSTCB		SSTCB
CHANGE IN VRS TYPE		
LINEAR DRAINAGE		
MANHOLE		
GULLY		
CATCH-PIT		
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PAVEMENT CORE (5 No.)		
HARD SURFACING		

C2	REDUCED SURVEY SCOPE	AM	GR	11/07/2021
C1	FIRST ISSUE	SC	SR	22/02/2021
REV	DETAILS	CHKD	APPD	DATE

DRAWING NUMBER				SCHEME REFERENCE NUMBER	
PROJECT	ORIGINATOR	VOLUME		570131	
HE570131	- KIER	- HRR			
M5_225.6_230.5 - DE - CH - 010005				REVISION	
LOCATION	TYPE	ROLE	NUMBER	C 2	

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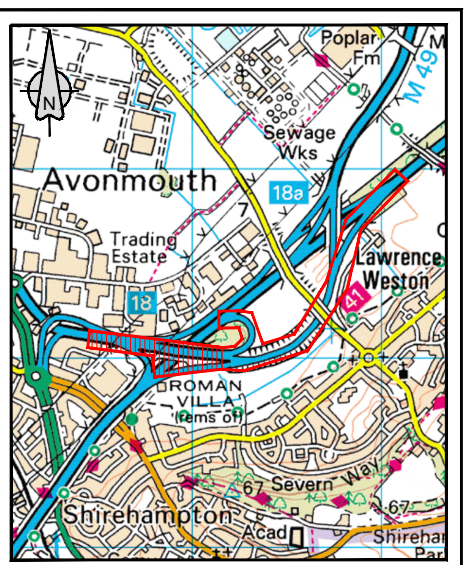
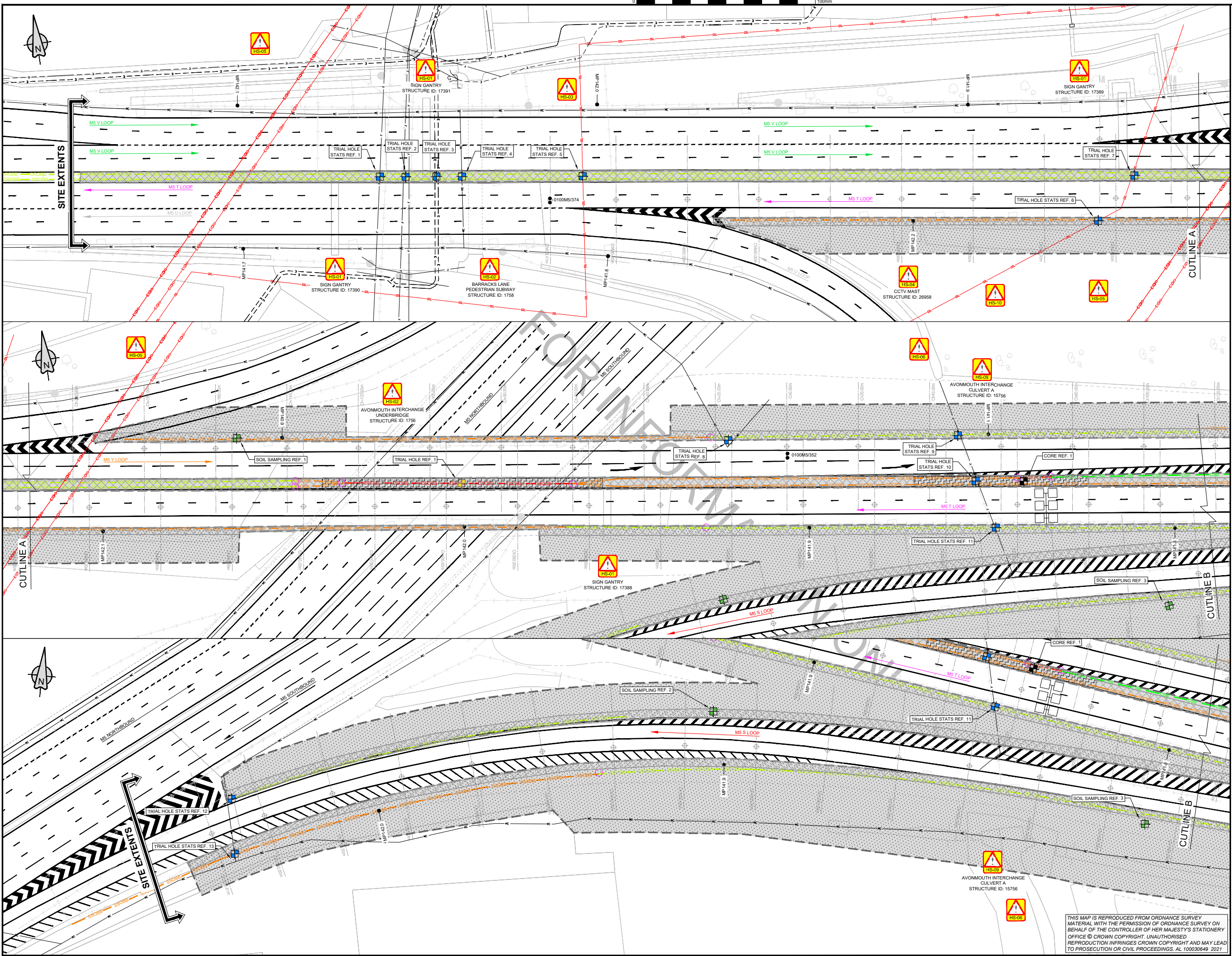
 **highways
england**

AGENT

 **KIER**

SCHEME NAME	570131B VRS GATEWAY 1A STUDY 2019-2020 SCHEME 10 - M5 J26 TO J27 MP 225.6-230.5
DRAWING TITLE	CENTRAL RESERVATION SURVEYS (SHEET 5 OF 5)

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	



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- E-# = ENVIRONMENT RISK REFERENCE NUMBER

HS-#

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- 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

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 - FOR DRAINAGE SERVICES INFORMATION REFER TO DRAWINGS NO. HE570131-KIER-HRR-M5_TYS_LOOP-DE-CH-050001 TO 050003. NO GUARANTEE IS GIVEN TO THEIR ACCURACY.
 - SAMPLING OF WATERPROOFING MEMBRANES FOR ASBESTOS CONTENT SHALL BE UNDERTAKEN BY SUITABLY TRAINED AND COMPETENT PERSONNEL ONLY.
 - VEGETATION CLEARANCE TO CONSIST OF REMOVAL OF LOW LYING BRUSH ONLY; NO TREES TO BE REMOVED. CONTRACTOR TO MINIMISE VEGETATION CLEARANCE AS FAR AS REASONABLY PRACTICABLE TO COMPLETE THE TOPOGRAPHIC SURVEY, WHERE TREES ARE GROUPED THE CARRIAGEWAY SIDE SHALL BE ACCURATELY RECORDED.

KEY

- ELECTRICITY OVERHEAD
- ELECTRICITY UNDERGROUND
- SEWERS
- MOTORWAY COMMS
- OIL PIPELINE
- TRAFFIC LOOPS
- MARKER NODES
- DSTCB
- SSTCB
- SSOBB
- DSOBB
- DR0BB
- GA74
- CSB
- CHANGE IN VRS TYPE
- LINEAR DRAINAGE
- MANHOLE
- GULLY
- SURVEY AREA (DRAINAGE, DUCT AND ASBESTOS REFURBISHMENT SURVEY) (13,244m²)
- SURVEY AREA (TOPOGRAPHIC SURVEY) (49,985m²)
- VEGETATION CLEARANCE (46,727m²)
- TRIAL HOLE STATS SURVEY & SOIL SAMPLING (25 No.)
- TRIAL HOLE SURVEY (STRUCTURES) (3 No.)
- SOIL SAMPLING (5 No.)
- PAVEMENT CORE (1 No.)
- HARD SURFACING

C2	REDUCED SURVEY SCOPE	AM	GR	14/07/2021
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SCHEME NAME M5 J18 T, Y & S LOOPS

DRAWING TITLE LOOP SURVEYS (SHEET 1 OF 3)

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