

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

- 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.
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 7. DIRECTION OF FLOW IS INDICATIVE AND MIGHT NOT REPRESENT CURRENT SITUATION.
 8. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING
HE570131D-KIER-HRR-M5_207.5_217.5-DE-CH-010001 TO 010011 AND WORKS INFORMATION
HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VDS-CH-0001,
HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VUT-CH-0001,
HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VPS-CH-0001,
HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VTO-CH-0001,
HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VGT-CH-0001

DRAINAGE KEY

SURFACE CHANNEL	—●—●—●—●—●—●—●—●—●—
SUB-SURFACE PIPE	—●—●—●—●—●—●—●—●—●—
COMBINED SURFACE AND SUB-SURFACE PIPE	—●—●—●—●—●—●—●—●—●—
CULVERT	—●—●—●—●—●—●—●—●—●—
MANHOLE	●
GULLY	□
CATCHPIT	⊕
OUTLET	○

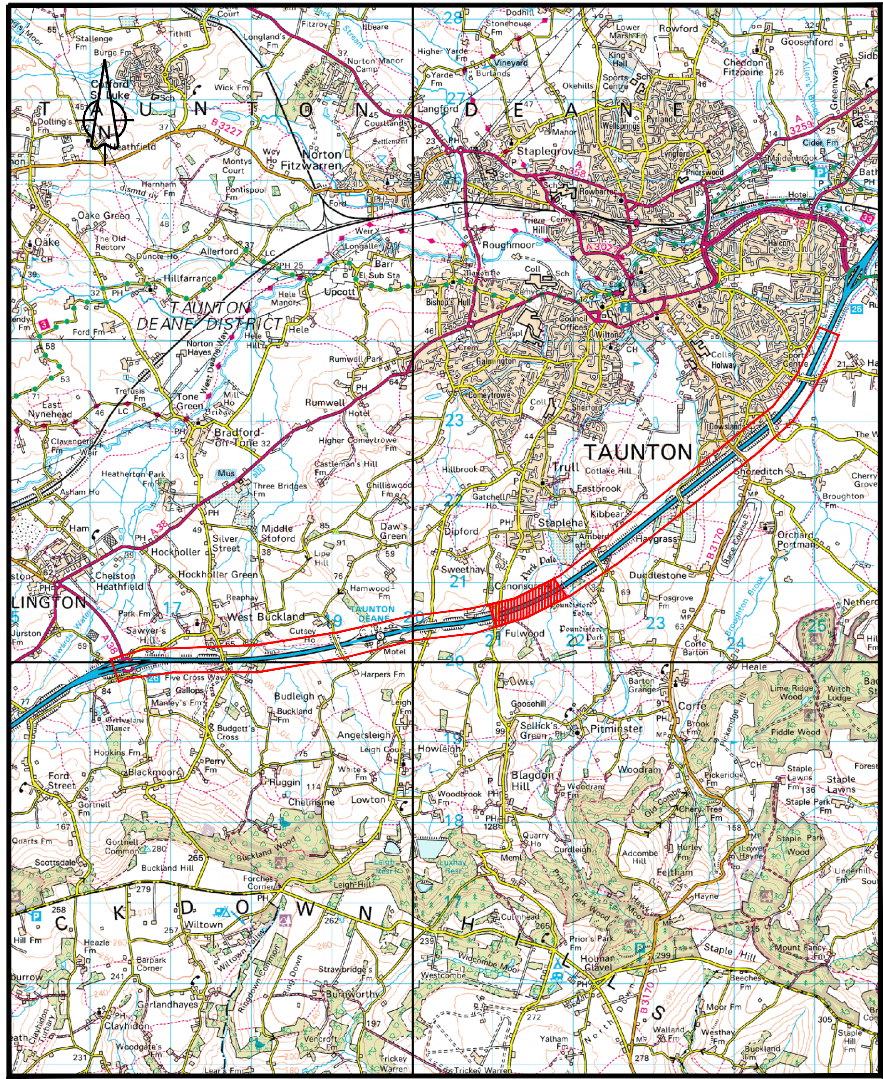
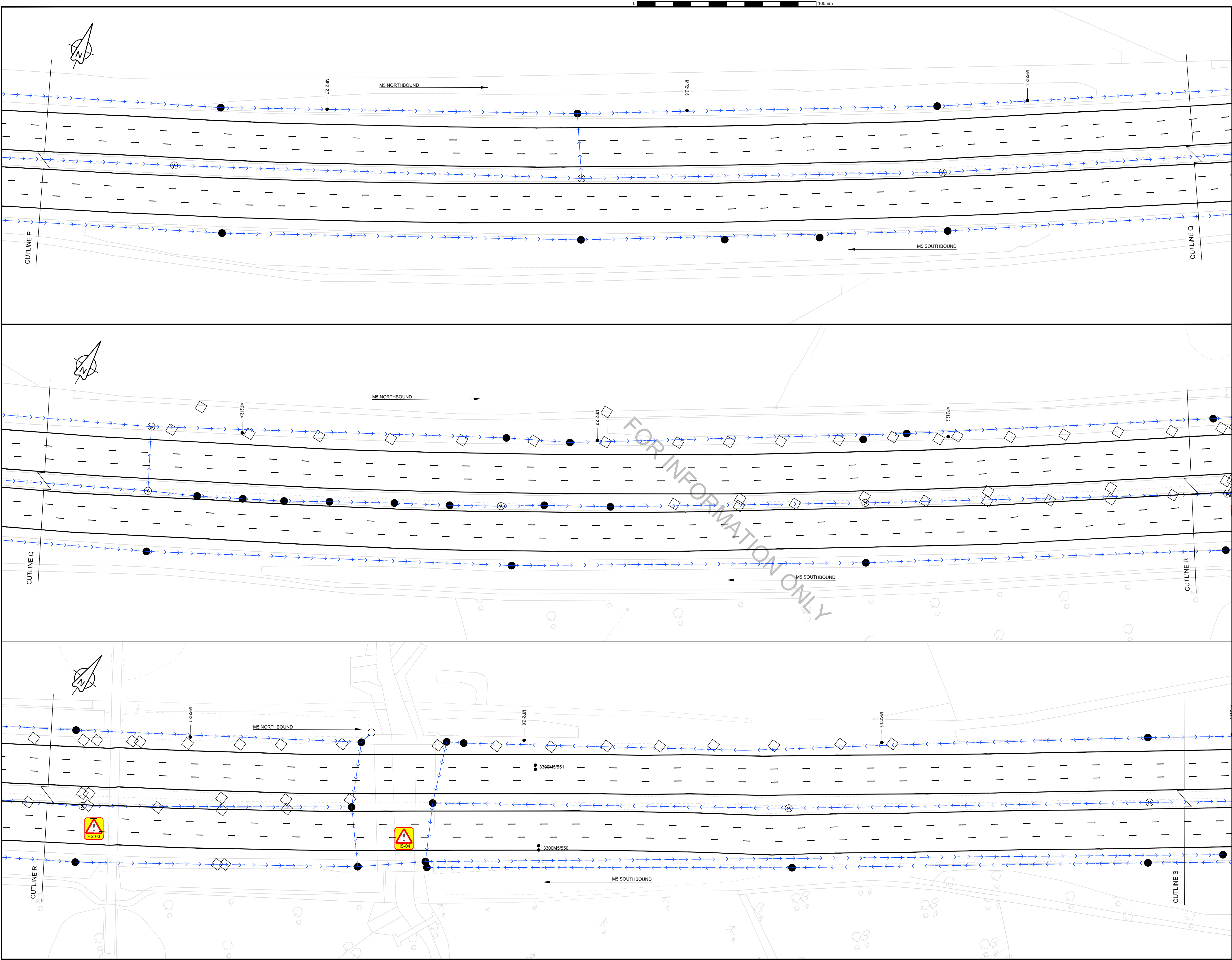
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CLIENT	570131D VRS GATEWAY 1A STUDY 2020-2021 SCHEME 607 M5 J25 TO J26 MP 207.5-217.5
AGENT	EXISTING DRAINAGE (SHEET 5 OF 11)
SCHEME NAME	
DRAWING TITLE	

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
DESIGN : SB	DIMENSIONS : m	WORK IN PROGRESS
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING ✓
APPD : SR	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 29/01/21		AS-BUILT
SUITABILITY: S2	FOR INFORMATION	


P2	SCHEME SCOPE REDUCTION		GR	MRO	29/06/2021
P1	FIRST ISSUE		SC	SR	28/01/2021
REV	DETAILS		CHKD	APPD	DATE
DRAWING NUMBER					SCHEME REFERENCE No. HE570131
PROJECT		ORIGINATOR	VOLUME		
HE570131		KIER	HRR		REVISION P 2
M5_207.5_217.5		DE - CH	500-05		
LOCATION	TYPE	ROLE	NUMBER		



LOCATION PLAN
NTS

RESIDUAL DESIGN HAZARDS

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

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

HS-01 - OVERHEAD ELECTRICITY CABLES
HS-02 - GAS PIPELINE
HS-03 - OVERBRIDGE
HS-04 - WATERCOURSE
HS-05 - UNDERBRIDGE
HS-06 - GANTRY

NOTES

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HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VTO-CH-0001,
HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VGT-CH-0001

DRAINAGE KEY

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

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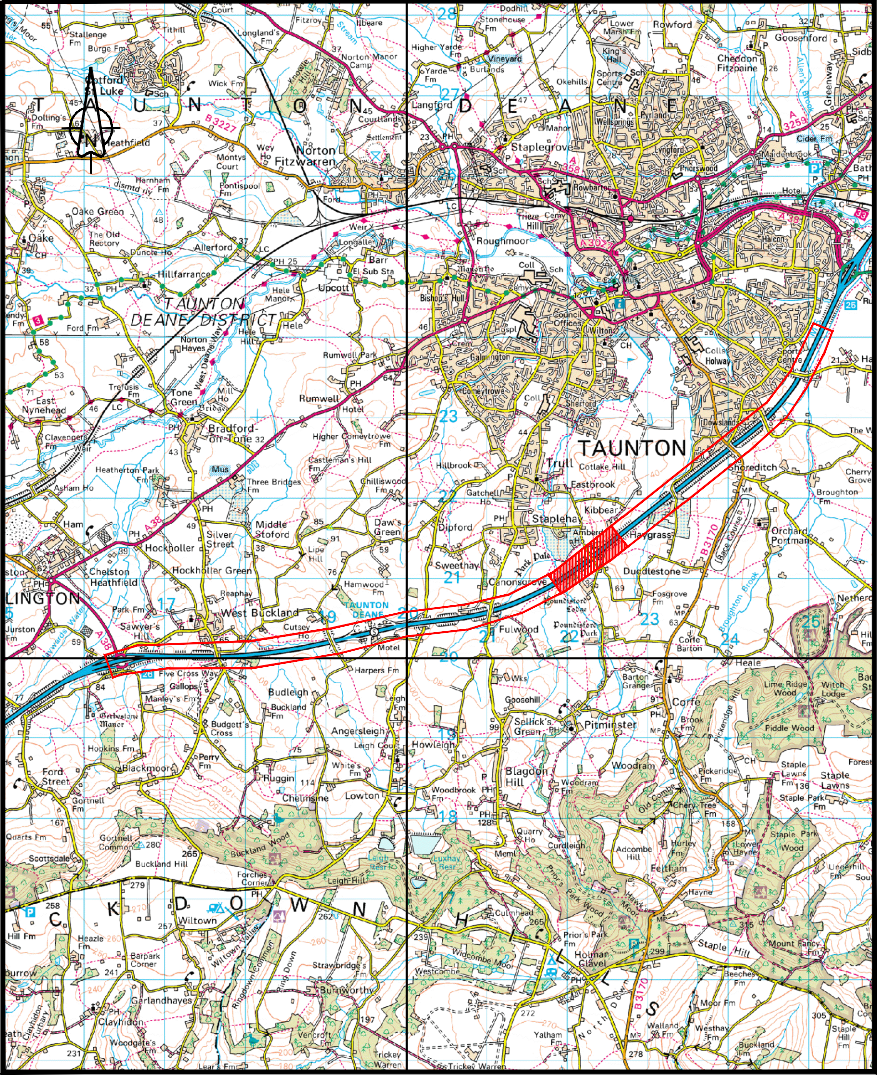
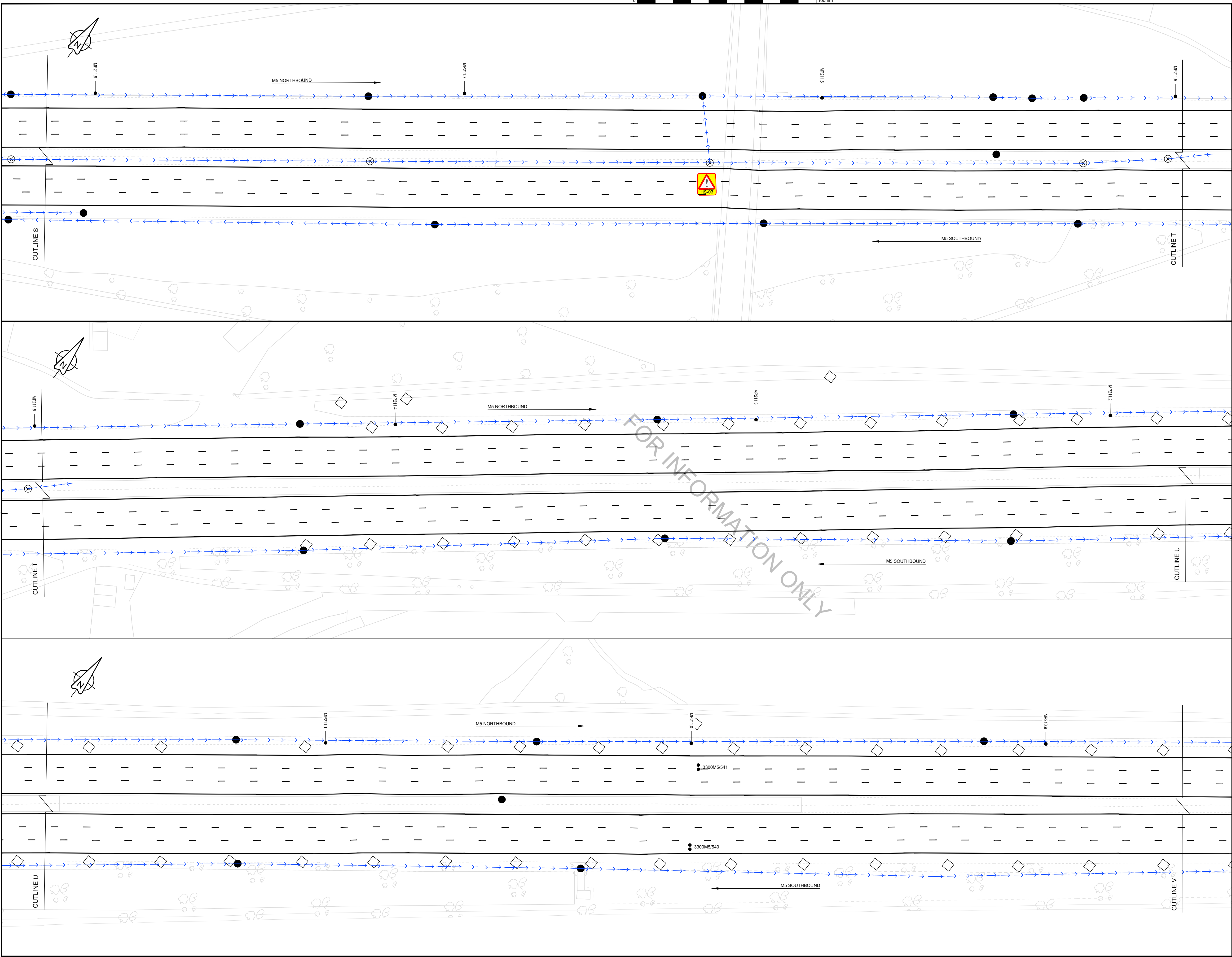
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P1	FIRST ISSUE			SC	SR	28/01/2021
REV	DETAILS			CHKD	APPD	DATE
DRAWING NUMBER						SCHEME REFERENCE NO HE570131
PROJECT ORIGINATOR			VOLUME			
HE570131 - KIER -			HRR			REVISION P 2
M5_207.5_217.5 - DE - CH -			500-06			
LOCATION TYPE ROLE			NUMBER			



SCHEME NAME
570131D VRS GATEWAY 1A STUDY 2020-2021
SCHEME 607 M5 J25 TO J26 MP 207.5-217.5

DRAWING TITLE
EXISTING DRAINAGE
(SHEET 6 OF 11)

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
DESIGN : SB	DIMENSIONS : m	WORK IN PROGRESS
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING ✓
APPD : SR	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 29/01/21		AS-BUILT
SUITABILITY: S2	FOR INFORMATION	



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

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CLIENT

AGENT

SCHEME NAME

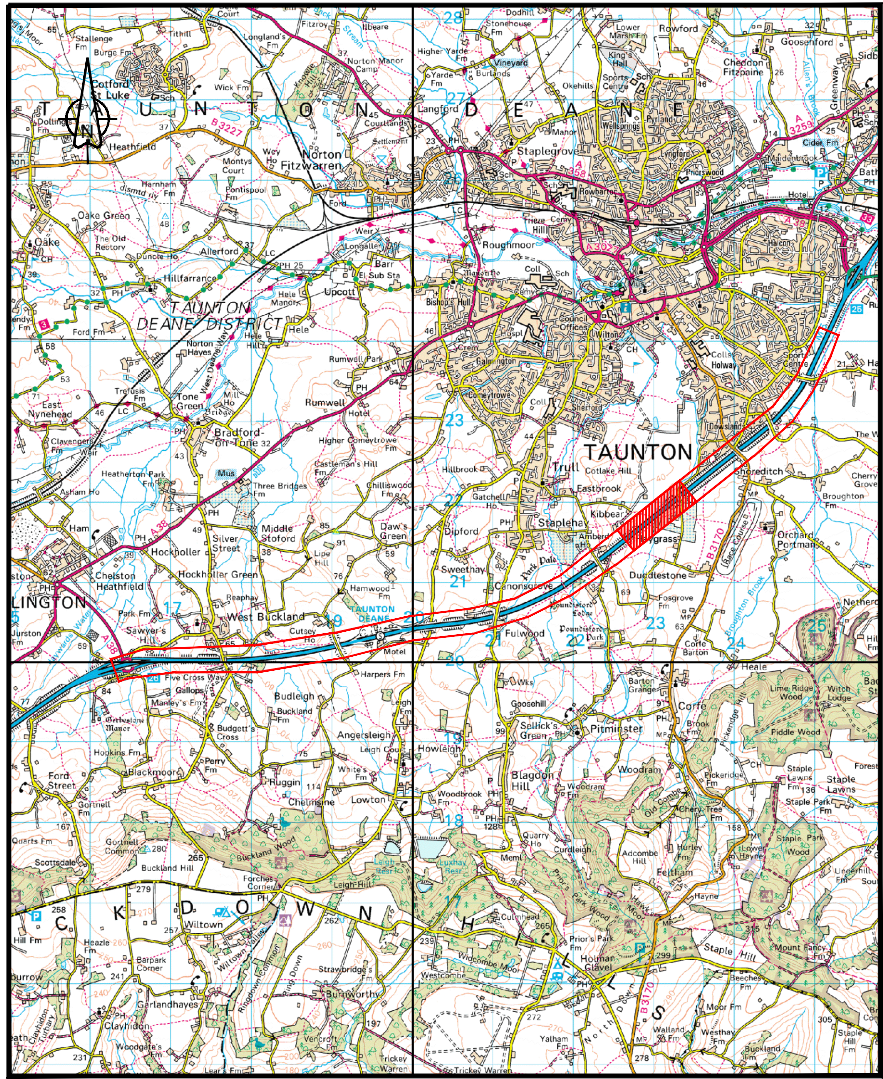
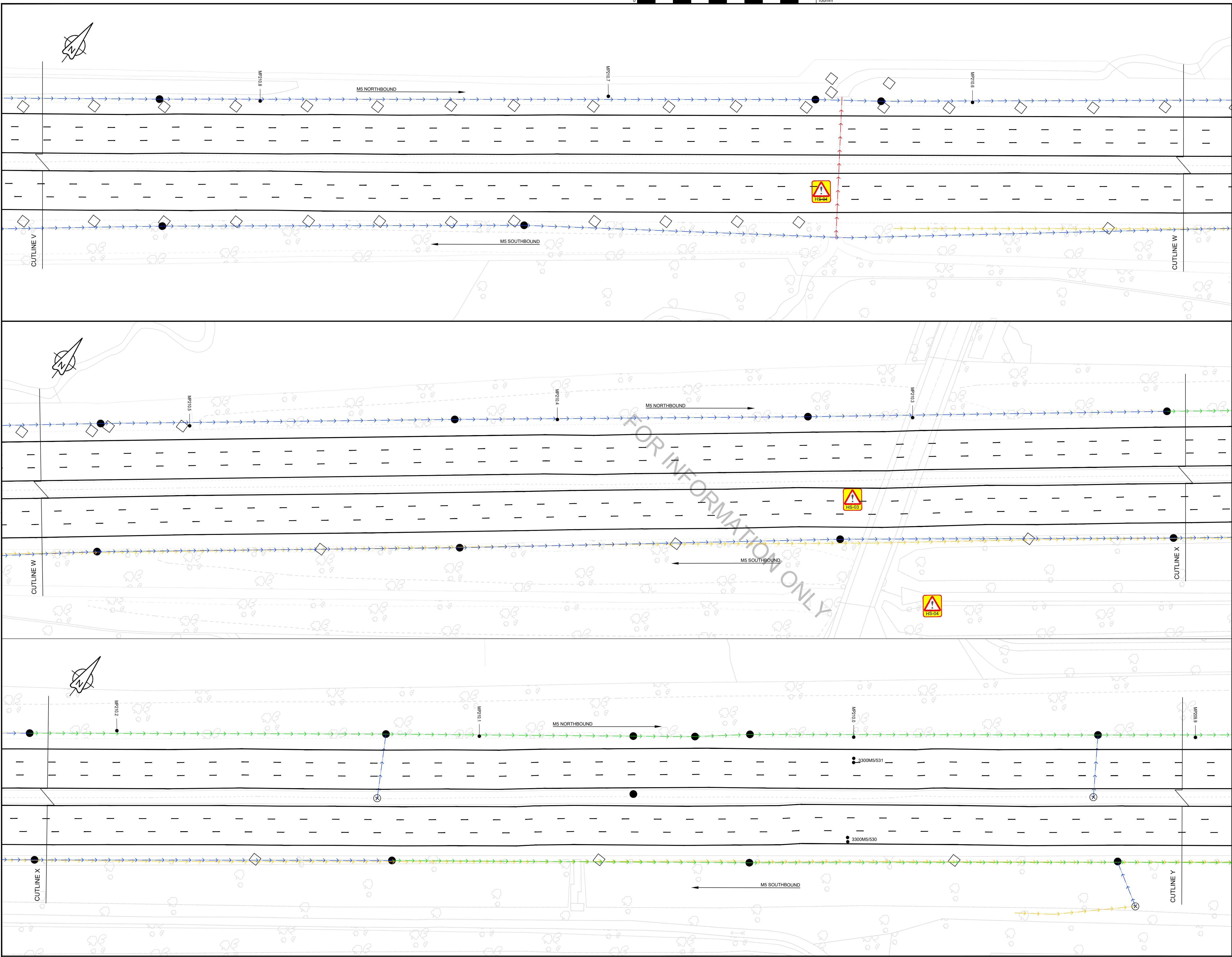
570131D VRS GATEWAY 1A STUDY 2020-2021
SCHEME 607 M5 J25 TO J26 MP 207.5-217.5

DRAWING TITLE

EXISTING DRAINAGE
(SHEET 7 OF 11)

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
DESIGN : SB	DIMENSIONS : m	WORK IN PROGRESS
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING ✓
APPD : SR	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 29/01/21		AS-BUILT
SUITABILITY: S2	FOR INFORMATION	

P2	SCHEME SCOPE REDUCTION		GR	MRO	29/06/2021
P1	FIRST ISSUE		SC	SR	28/01/2021
REV	DETAILS		CHKD	APPD	DATE
DRAWING NUMBER					SCHEME REFERENCE No.
PROJECT		ORIGINATOR	VOLUME		
HE570131		KIER	HRR		HE570131
M5_207.5_217.5		DE	CH	500-07	REVISION P 2
LOCATION	TYPE	ROLE	NUMBER		



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

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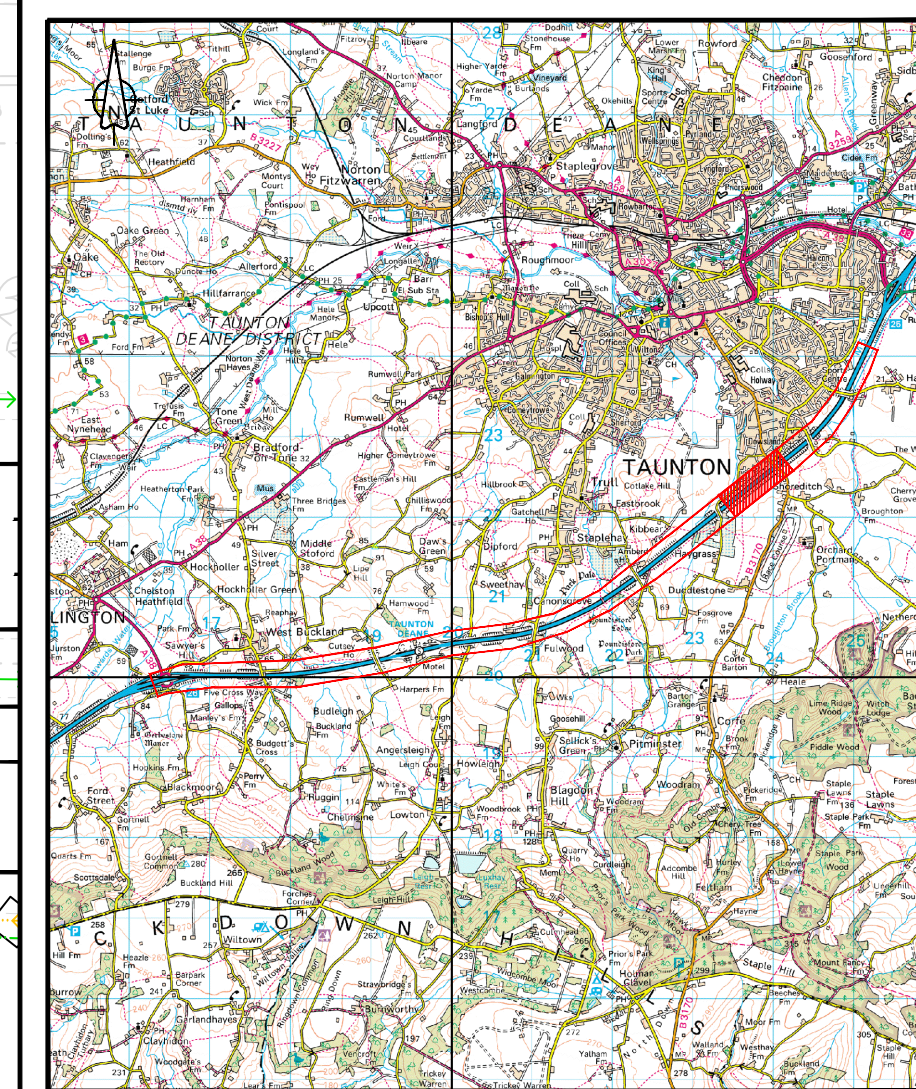
CLIENT

SCHEME NAME
570131D VRS GATEWAY 1A STUDY 2020-2021
SCHEME 607 M5 J25 TO J26 MP 207.5-217.5

DRAWING TITLE
EXISTING DRAINAGE
(SHEET 8 OF 11)

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
DESIGN : SB	DIMENSIONS : m	WORK IN PROGRESS
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING ✓
APPD : SR	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 29/01/21		AS-BUILT
SUITABILITY: S2	FOR INFORMATION	

P2	SCHEME SCOPE REDUCTION		GR	MRO	29/06/2021
P1	FIRST ISSUE		SC	SR	28/01/2021
REV	DETAILS		CHKD	APPD	DATE
DRAWING NUMBER					SCHEME REFERENCE No HE570131
PROJECT		ORIGINATOR	VOLUME		
HE570131		KIER	HRR		REVISION P2
M5_207.5_217.5		DE - CH	500-08		
LOCATION	TYPE	ROLE	NUMBER		



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P2	SCHEME SCOPE REDUCTION		GR	MRO	29/06/202
P1	FIRST ISSUE		SC	SR	28/01/202
REV	DETAILS		CHKD	APPD	DATE
DRAWING NUMBER					SCHEME REFERENCE
PROJECT		ORIGINATOR	VOLUME		HE57013
HE570131		- KIER	- HRR		
M5_207.5_217.5		- DE	- CH -		500-09
LOCATION		- TYPE	- ROLE		NUMBER
					REVISION P2

CLIENT

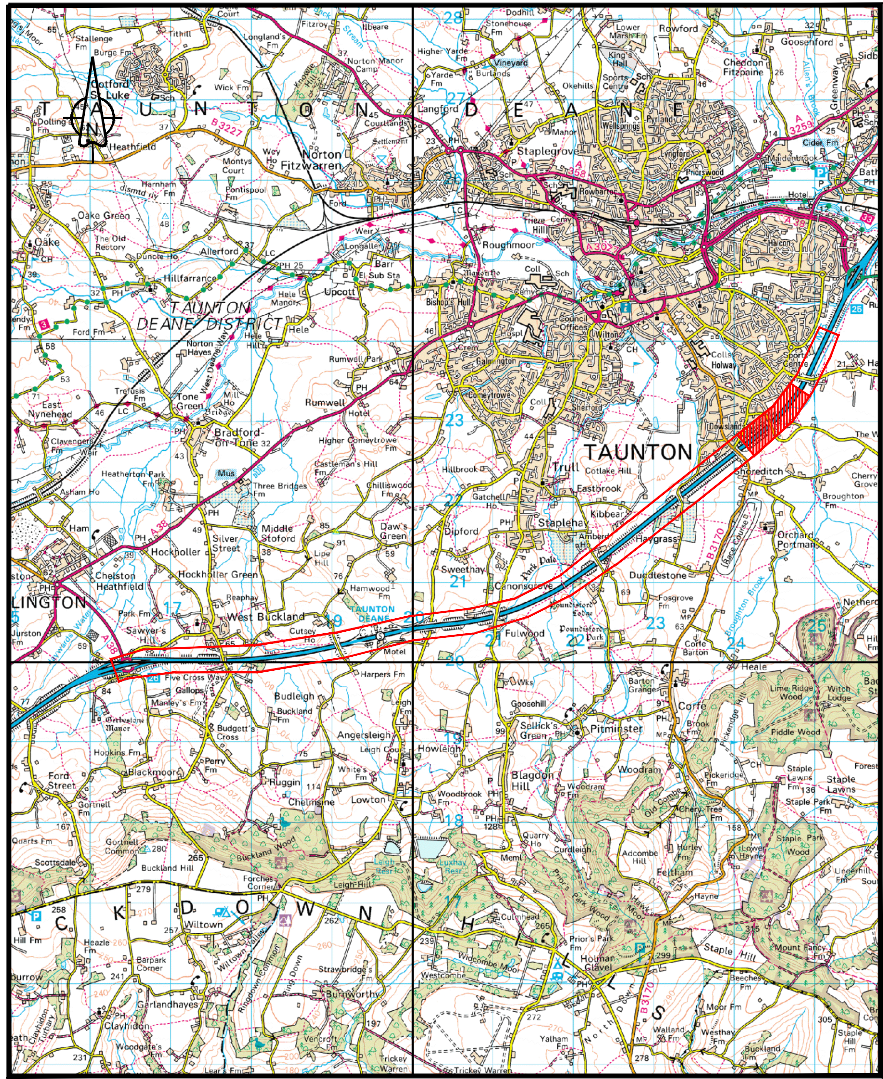
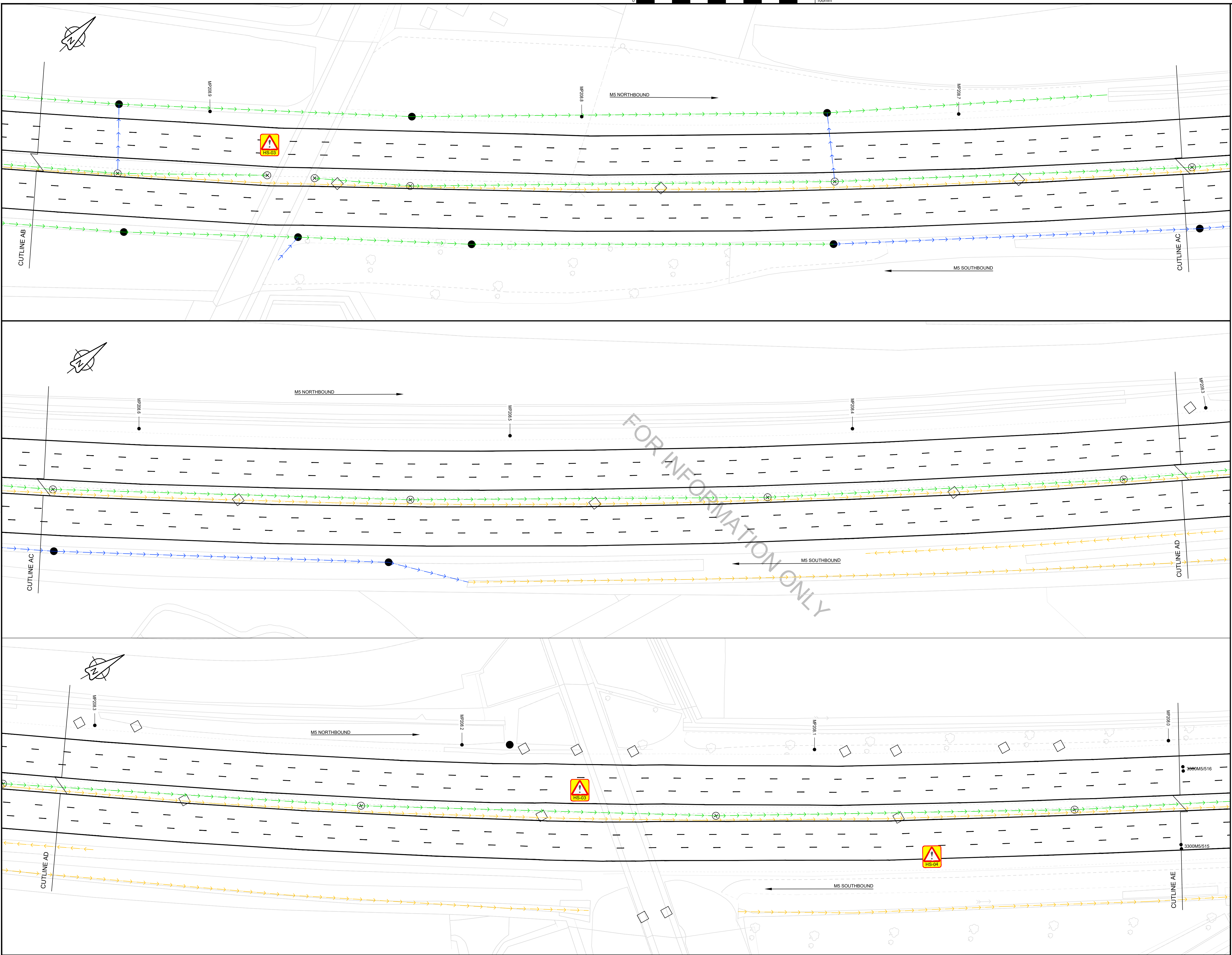
 **highways**
england

AGENT

 **KIER**

SCHEME NAME	570131D VRS GATEWAY 1A STUDY 2020-2021 SCHEME 607 M5 J25 TO J26 MP 207.5-217.5
DRAWING TITLE	EXISTING DRAINAGE (SHEET 9 OF 11)

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
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DRAINAGE KEY

SURFACE CHANNEL	→→→→→
SUB-SURFACE PIPE	→→→→→
COMBINED SURFACE AND SUB-SURFACE PIPE	→→→→→
CULVERT	→→→→→
MANHOLE	●
GULLY	□
CATCHPIT	⊗
OUTLET	○

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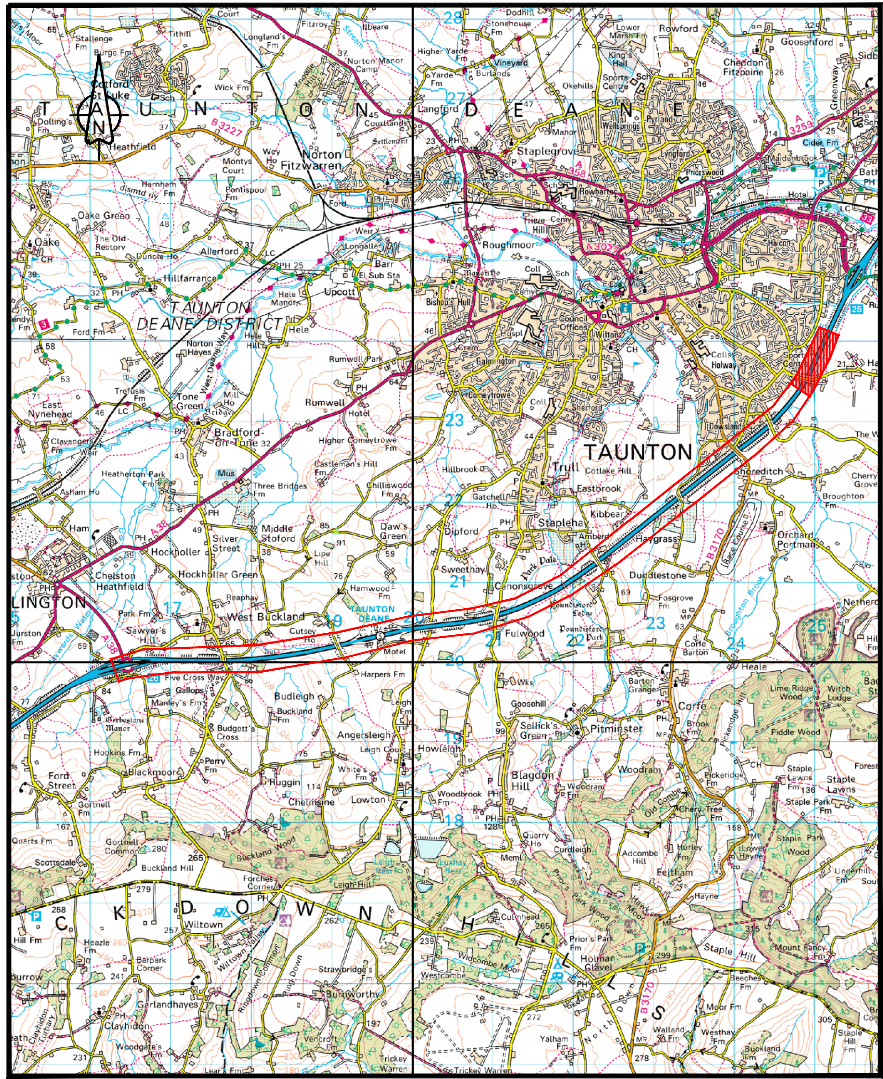
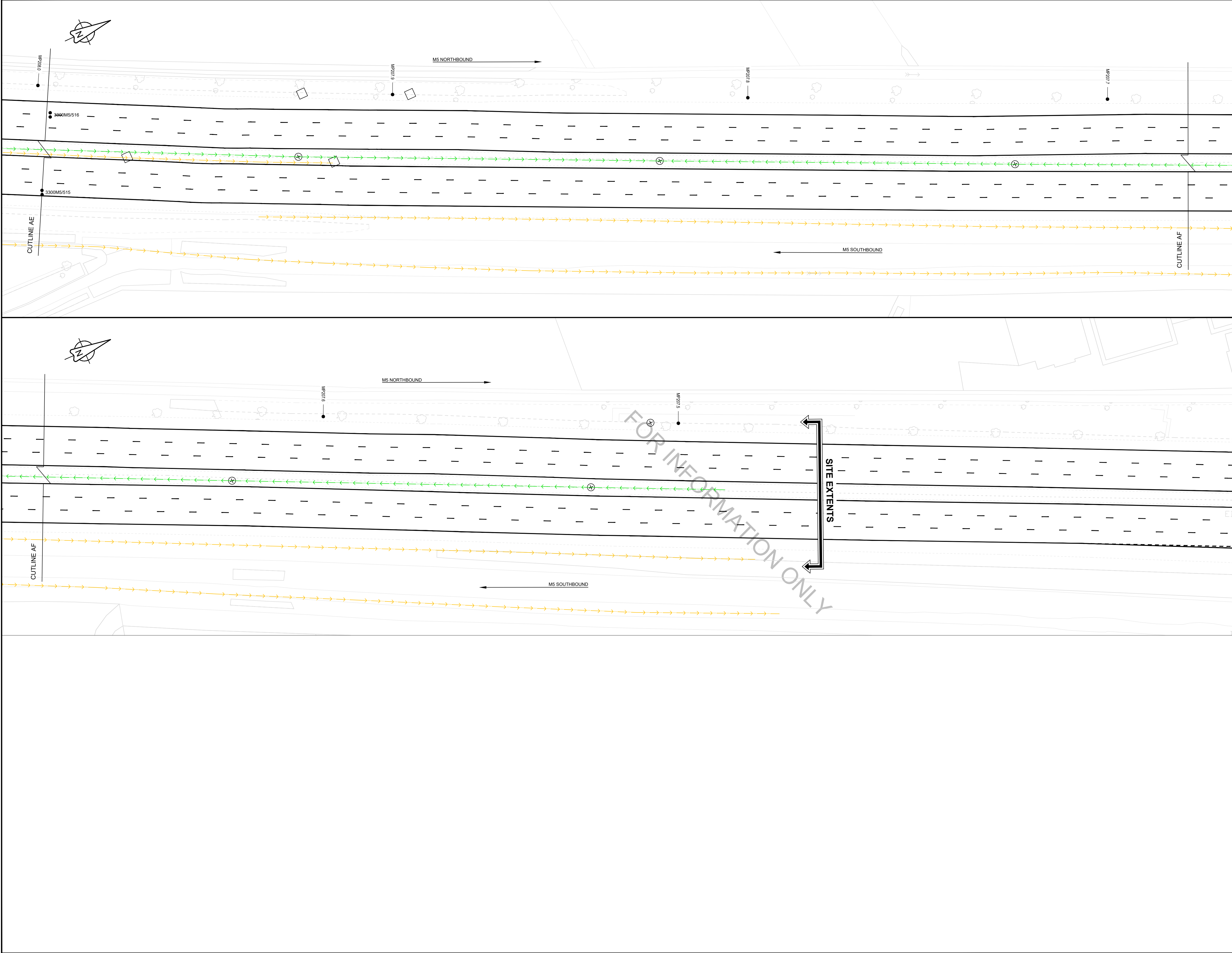


SCHEME NAME
570131D VRS GATEWAY 1A STUDY 2020-2021
SCHEME 607 M5 J25 TO J26 MP 207.5-217.5

DRAWING TITLE
EXISTING DRAINAGE
(SHEET 10 OF 11)

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
DESIGN : SB	DIMENSIONS : m	WORK IN PROGRESS
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DRAWING NUMBER					SCHEME REFERENCE No. HE570131
PROJECT		ORIGINATOR	VOLUME		
HE570131		KIER	HRR		REVISION P 2
M5_207.5_217.5 - DE - CH - 500-10					
LOCATION		TYPE	ROLE	NUMBER	



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HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VPS-CH-0001,
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HE570131D-KIER-HRR-M5_207.5_217.5_CR_A-VGT-CH-0001

DRAINAGE KEY

SURFACE CHANNEL	→→→→→
SUB-SURFACE PIPE	→→→→→
COMBINED SURFACE AND SUB-SURFACE PIPE	→→→→→
CULVERT	→→→→→
MANHOLE	●
GULLY	□
CATCHPIT	⊗
OUTLET	○

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SCHEME NAME	570131D VRS GATEWAY 1A STUDY 2020-2021 SCHEME 607 M5 J25 TO J26 MP 207.5-217.5
DRAWING TITLE	EXISTING DRAINAGE (SHEET 11 OF 11)

DRAWN : SB	SCALE : 1:500	DRAWING STATUS
DESIGN : SB	DIMENSIONS : m	WORK IN PROGRESS
CHKD : SC	ORIG DWG SIZE: A1	PRELIMINARY DRAWING ✓
APPD : SR	COPYRIGHT © KIER	EXTERNAL ISSUE
DATE : 29/01/21		AS-BUILT
SUITABILITY: S2	FOR INFORMATION	

P2	SCHEME SCOPE REDUCTION		GR	MRO	29/06/2021
P1	FIRST ISSUE		SC	SR	28/01/2021
REV	DETAILS		CHKD	APPD	DATE
DRAWING NUMBER					SCHEME REFERENCE No. HE570131
PROJECT		ORIGINATOR	VOLUME		
HE570131		KIER	HRR		REVISION P 2
M5_207.5_217.5		DE - CH	500-11		
LOCATION	TYPE	ROLE	NUMBER		