

**National Asset Delivery
Technical Surveys and Testing**

**Scope for 605746-002 A1 SB Sibson-
J17 resurf**

Deflectograph Survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	SH	17/08/20

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TABLE OF CONTENTS

1 PURPOSE OF THE SERVICES..... Error! Bookmark not defined.
2 EXISTING INFORMATION Error! Bookmark not defined.
3 CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES .. 6
4 REQUIREMENTS FOR THE PROGRAMME 8
5 SERVICES AND OTHER THINGS PROVIDED BY THE CLIENT..... 9
6 SPECIFICATION FOR THE SERVICES 10

LIST OF ANNEXES

Appendix 1 Supplementary Constraints

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1 PURPOSE OF THE SERVICES

1.1 Project objectives

1.1.1 The principle objective of this project is to carry *out* pavement investigations at A1 SB Sibson-J17 Resurfacing.

1.1.2 The specification that applies to the *services* is included in Section 6

1.2 Scope of services

1.2.1 The *services* to be provided under this contract are:

All site *services* to be undertaken in accordance with the requirements set out in DMRB CS 229 (previously HD 29/08). Carry out Deflectograph (DFG) survey (survey category 1A/1B) in lane 1 and 2. Note DFG survey season runs from March to 15th June and 16th Sept to end of Nov as per locations shown on the investigation plans supplied by Highways England.

1.3 Deliverables

1.3.1 The *Consultant* is required to produce the following deliverables:

- (1) All reporting to be in accordance with the requirements set out in DMRB CS 229
- (2) Produce DFG deflection plots + driver notes and calibration data.
- (3) Supply DFG data in a format suitable to upload to HAPMS.
- (4) Provide a brief report on the results, with interpretation.
- (5) All results to be supplied in electronic format and in accordance with DMRB CS 229

2 EXISTING INFORMATION

2.1.1 Schedule DFG locations and lengths.

2.1.2 The Drawings applying to this contract are supplied in the appendices to this Scope Information. Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

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3 CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES

3.1 General

3.1.1 The *Consultant* provides the *Services* in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.

3.1.2 The *Consultant* complies with the constraints and meets with the requirements outlined in Appendix 1.

3.1.3 The *Consultant* submits information detailing how the *Consultant* will provide the *Services* to the *Client* prior to the *services* commencing. This information will include any lifting plans, risk assessments, method statements, the *Consultant's* staff training information and any other relevant Health and Safety requirements.

3.2 Working hours & site-specific constraints

3.2.1 The *Consultant's* working hours for site works shall be 8 pm to 6 am Monday to Friday. Anticipated dates on site are from 02/11/20 to 06/11/20 (dates to be confirmed upon award, please use this dates within your tender submission).

3.2.2 All work on main carriageway

3.2.3 TM to be provided by CWF

3.3 Health, Safety and Environment & Risk Management

Health and Safety requirements

3.3.1 In Providing the *Services* the *Consultant* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.

3.3.2 When implemented, the *Consultant* shall comply with the requirements of Highways England's safety passport scheme and ensure that all his employees, and any of his subcontractors, are registered in accordance with the implementation of the scheme.

3.3.3 For details of the CDM duty holders, refer to the pre-construction information, which is attached, CPP & other PCI to be provided upon successful tender.

3.3.4 Before commencing the construction phase of the *services*, the *Consultant* confirms to the *Client* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Consultant*

provides all necessary facilities to Provide the Services and to comply with the minimum requirements set out in HSE guidance document L153

Environmental requirements

- 3.3.5 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

- 3.3.6 The *Consultant* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Consultant* submits a risk register, which captures all risks associated with the delivery of the services including those identified by the *Client*, with his tender and maintains it for the contract period.

4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Consultant* submits programme to the *Client* with his tender.
- 4.1.2 The *Consultant* Provides the Services taking into account the following programme constraints:
- (i) the *starting date* and *completion date* and any post site reporting and review period
 - (ii) The *services* and other things provided by *Client* (see Section 5)
 - (iii) Results to be issued within 2 weeks of completing site work or as soon as reasonably practicable.
- 4.1.3 The programme should be in the form of an activity and time related bar chart, produced as a result of a critical path analysis.
- 4.1.4 The programme should preferably be provided in either a PDF or MS Excel format and cover the full contract period including post site activities. Activities should be clearly defined and named and the programme should detail the following:
- (i) dates and times associated with the project, including the *starting date*, *completion date* & *Consultant's* planned completion, and any other dates or times that will specifically impact the delivery of the project
 - (ii) activities associated with delivering the project
 - (iii) To provide updates and feedback on TM requirements if different to set up identified at tender.
- 4.1.5 The *Consultant* updates the programme every 3 days. The *Consultant* submits an updated programme to the *Client* upon request.

5 SERVICES AND OTHER THINGS PROVIDED BY THE *CLIENT*

5.1.1 The following temporary traffic management will be provided by the *Client* to allow the *Consultant* to Provide the *Services*:

(1) CWF to provide TM

(2) Duration: 3 shifts

- Shift 1: Total closure of A1 Southbound
- Shift 2: Lane 1 closure
- Shift 3: Lane 2 closure

5.1.2 The other things that will be provided by the *Client* are as follows:

(1) Welfare facilities will be provided by the Principal Contractor (TM Provider)

6 SPECIFICATION FOR THE SERVICES

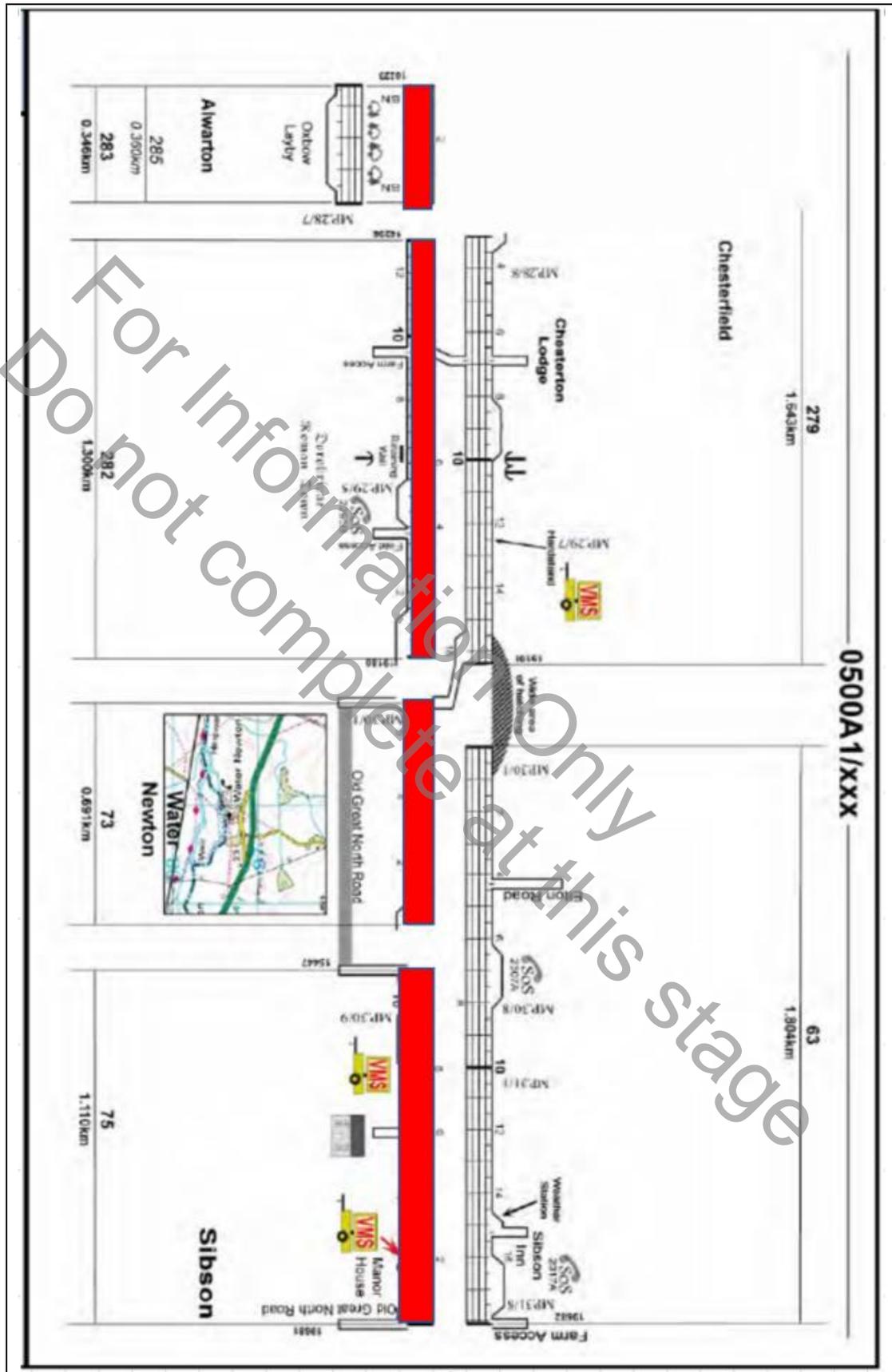
6.1.1 The *Consultant* shall undertake the Services in accordance with:

6.1.2 DMRB CS 229

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Appendix 1 – Supplementary constraints

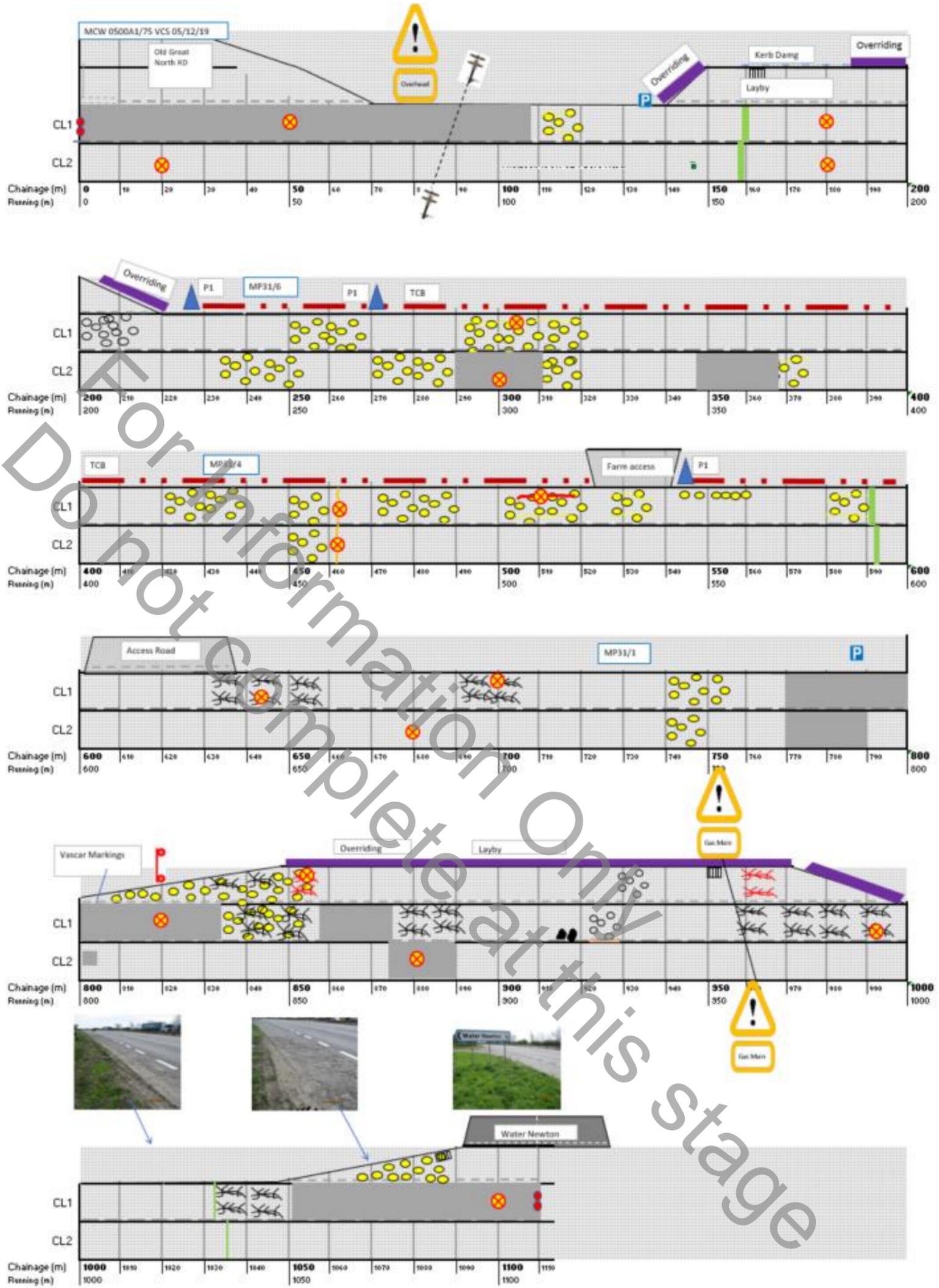
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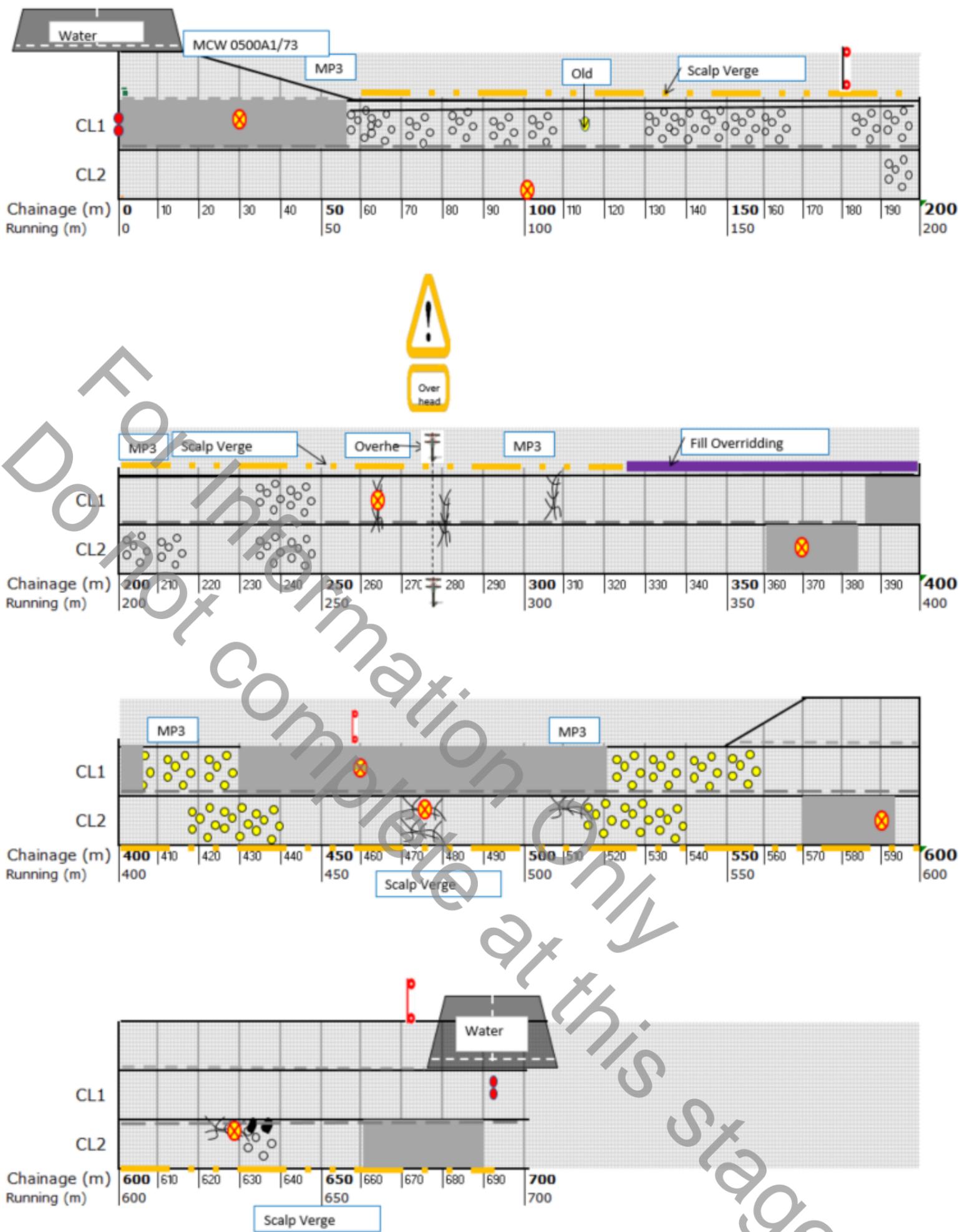


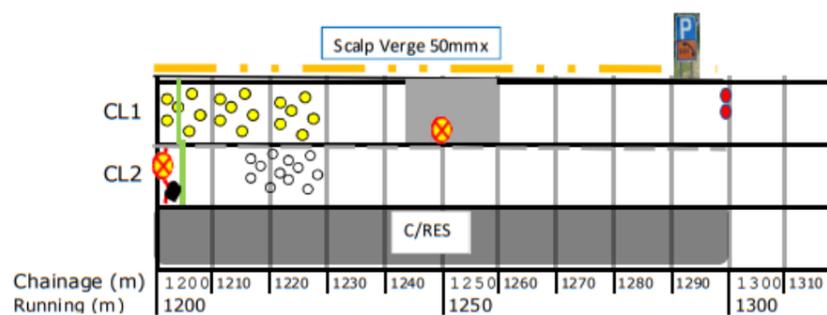
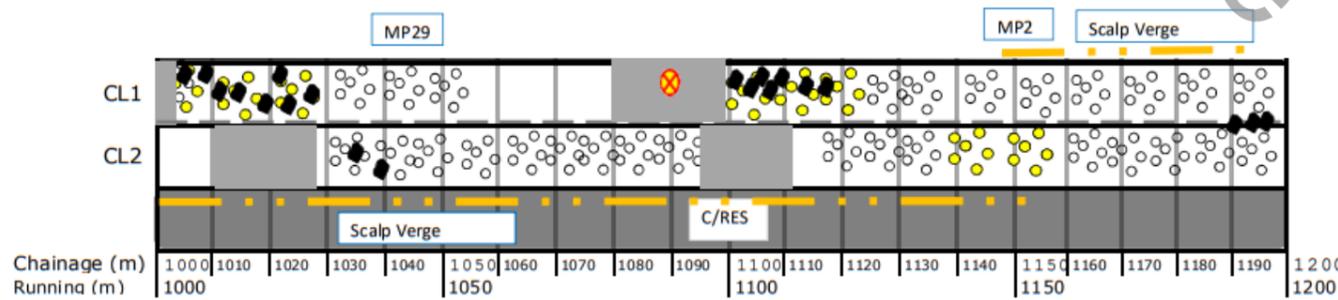
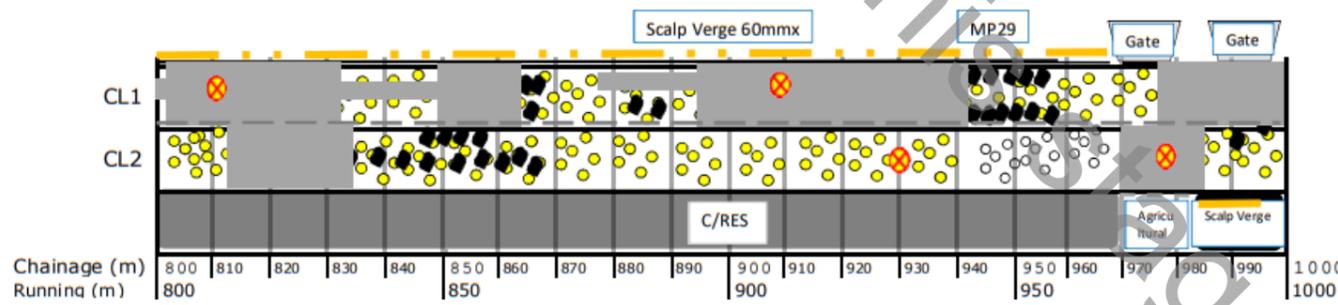
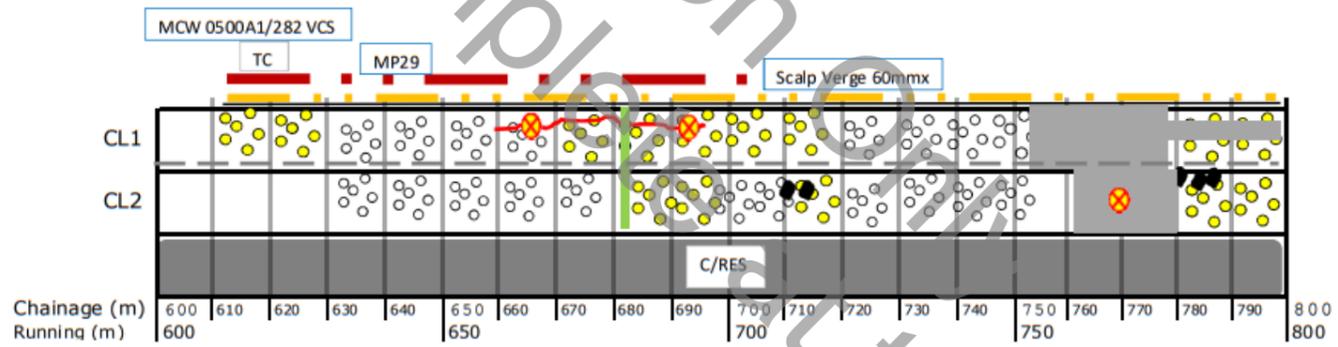
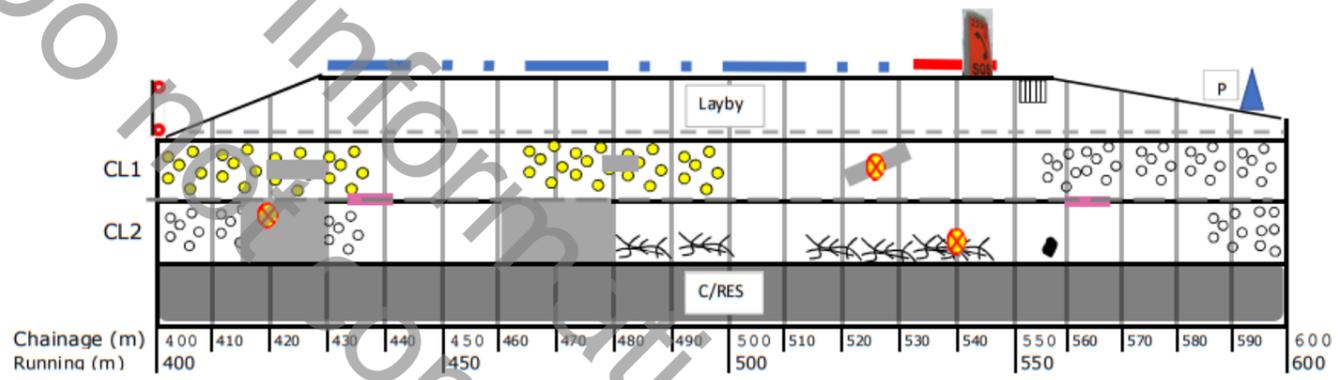
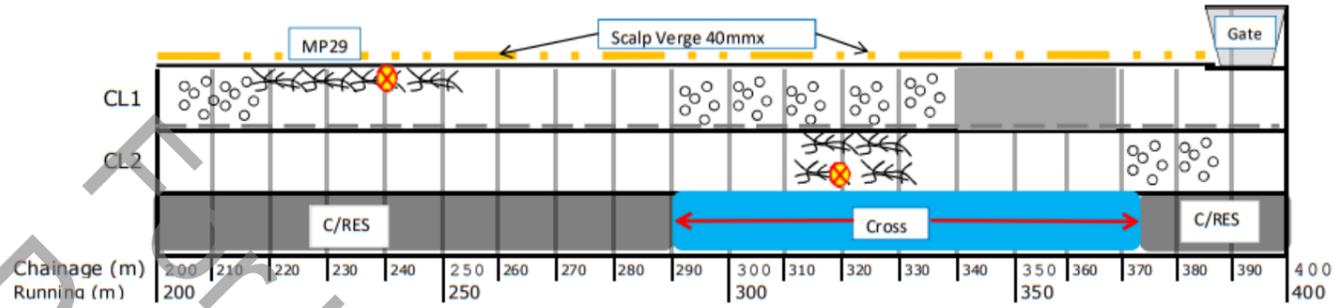
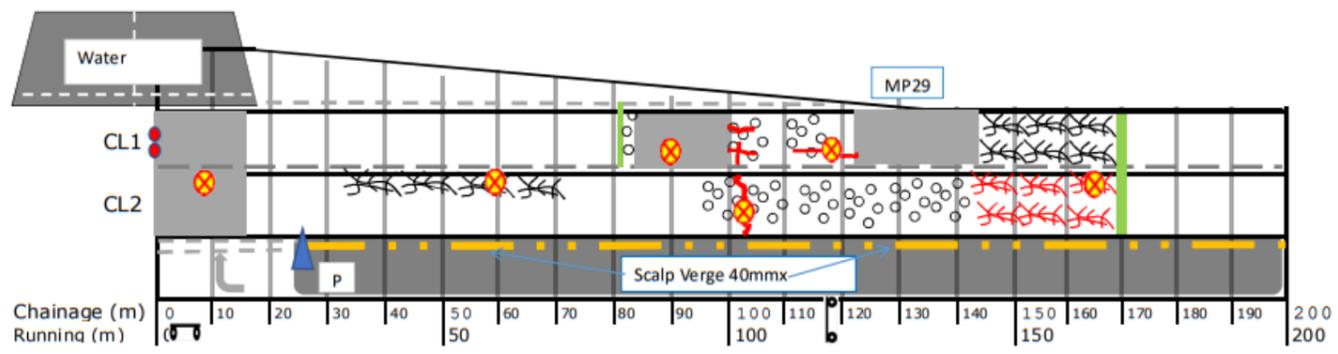
Appendix 3 – Testing Plan

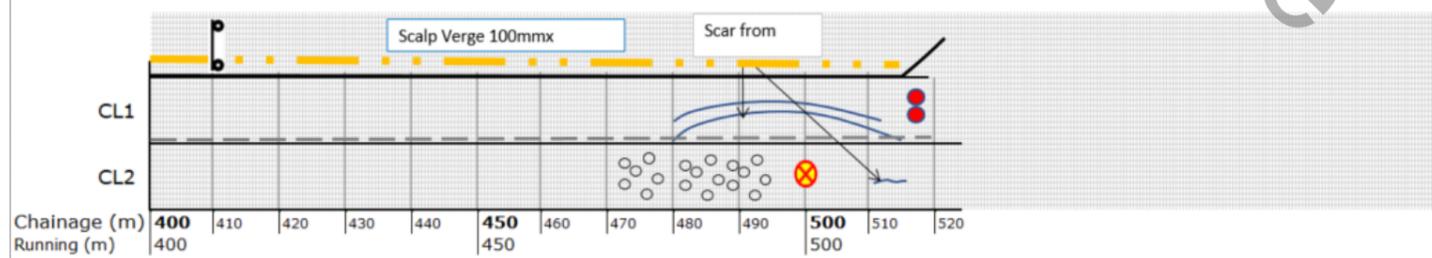
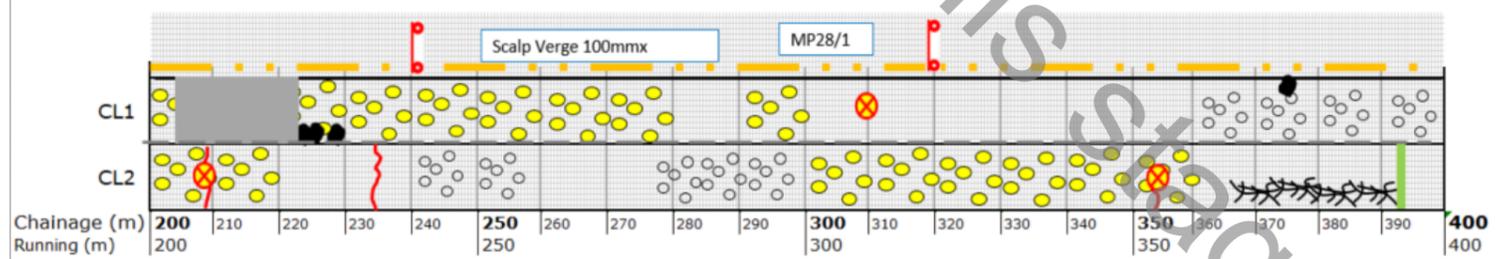
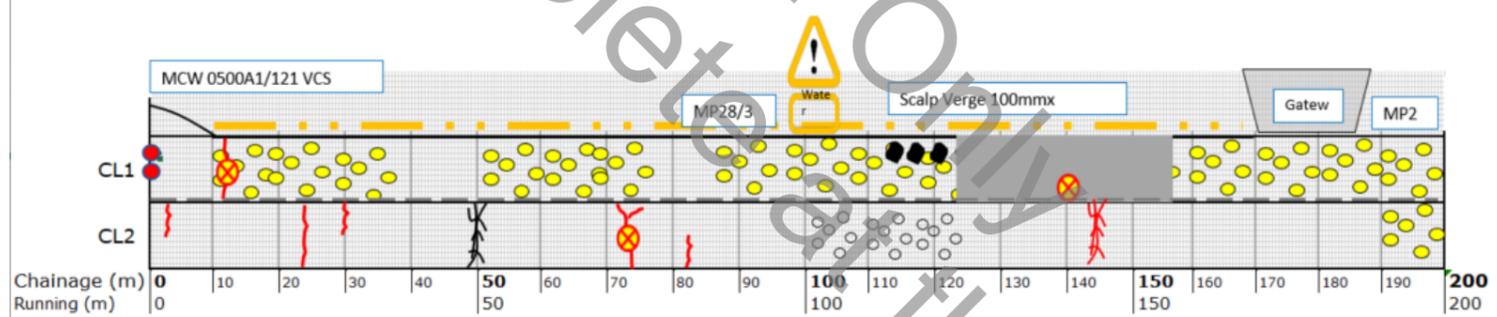
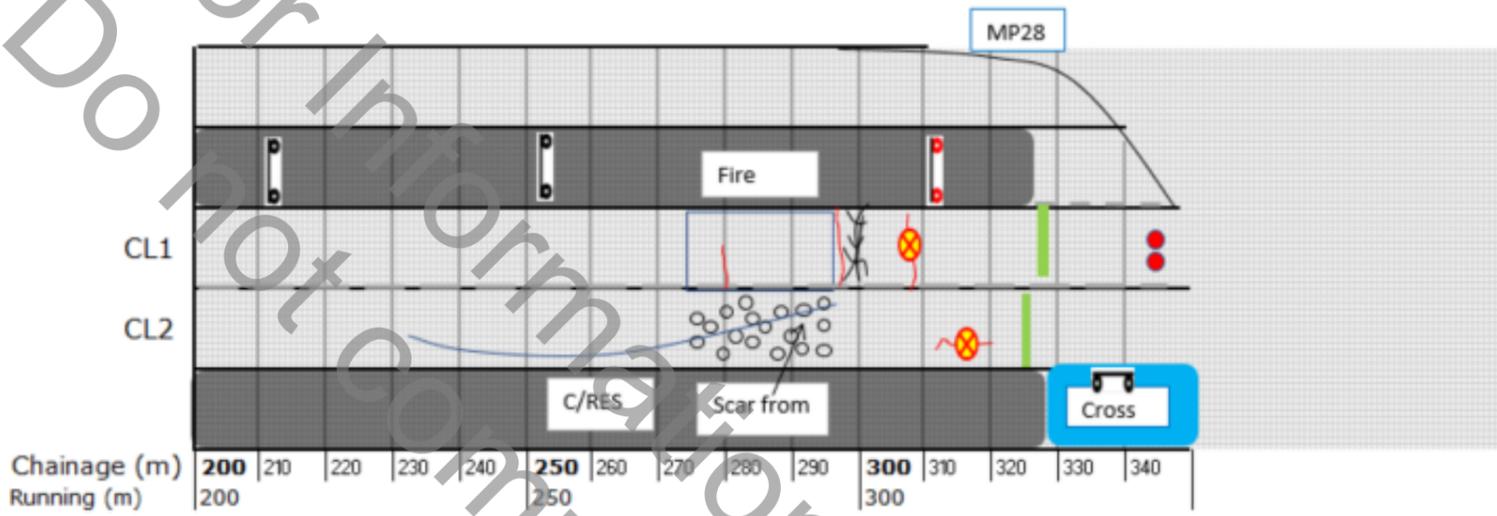
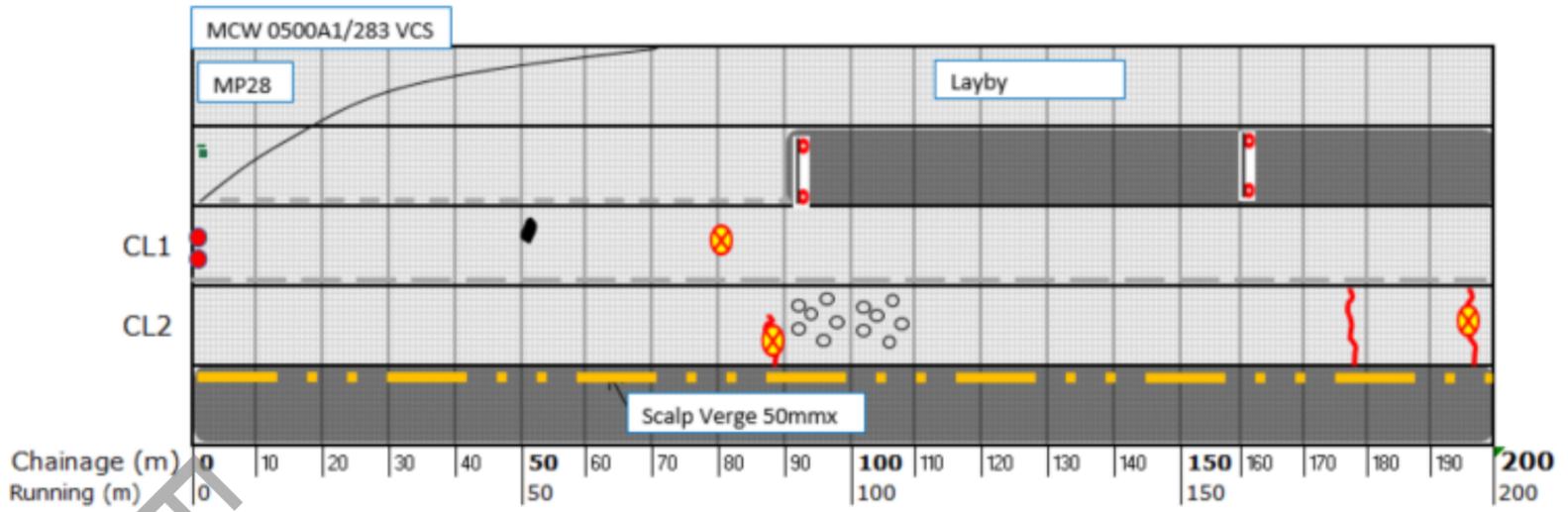
 Core Location

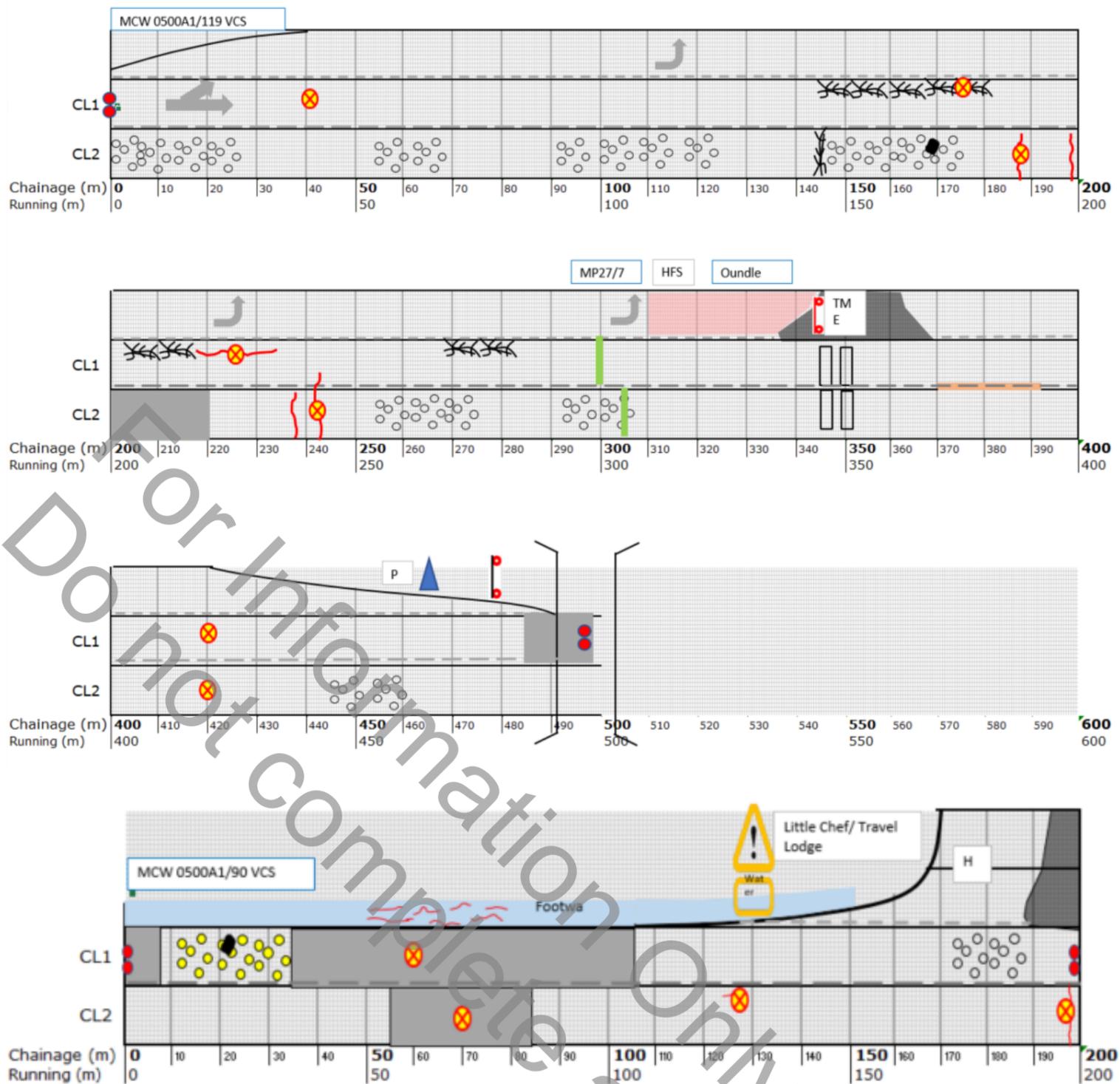
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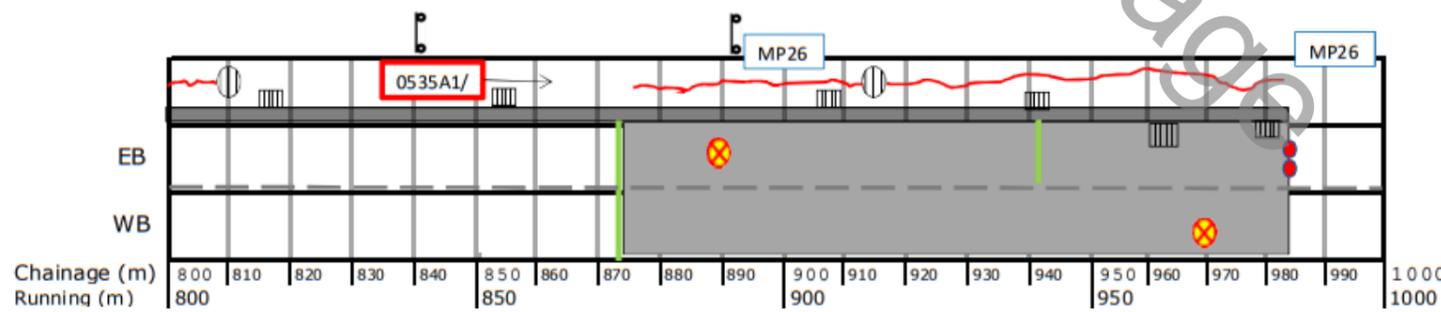
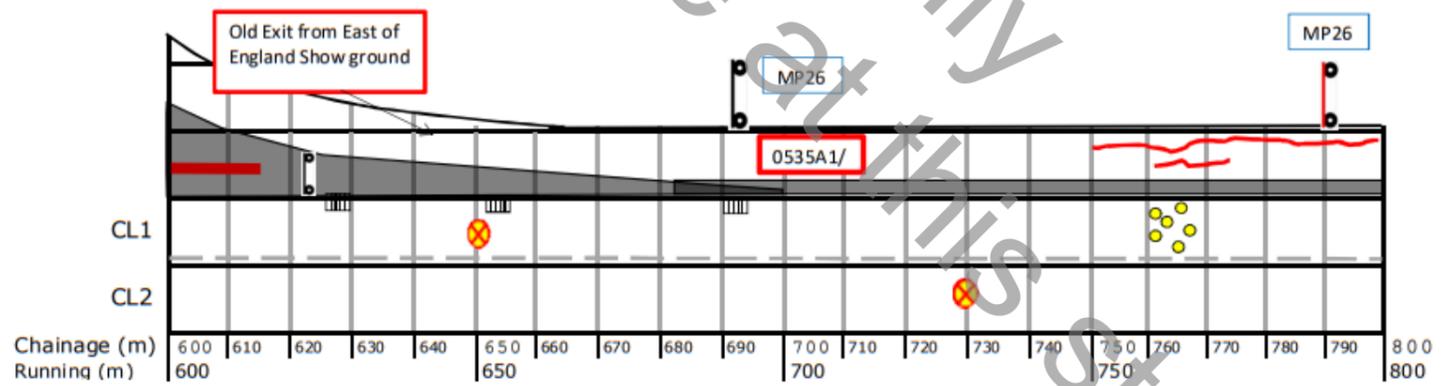
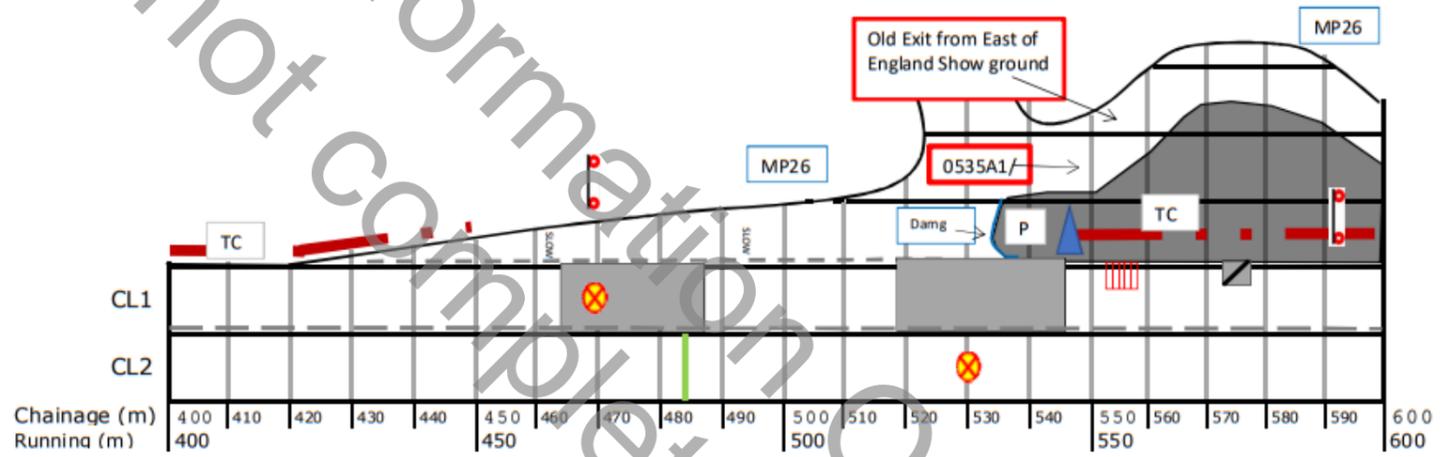
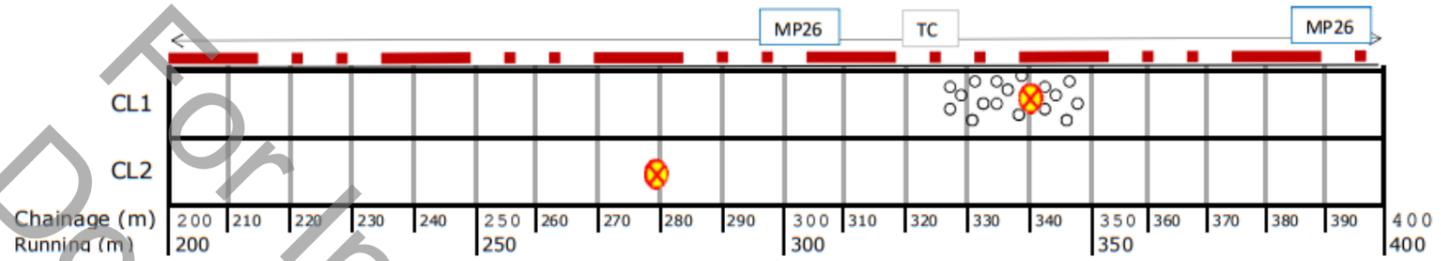
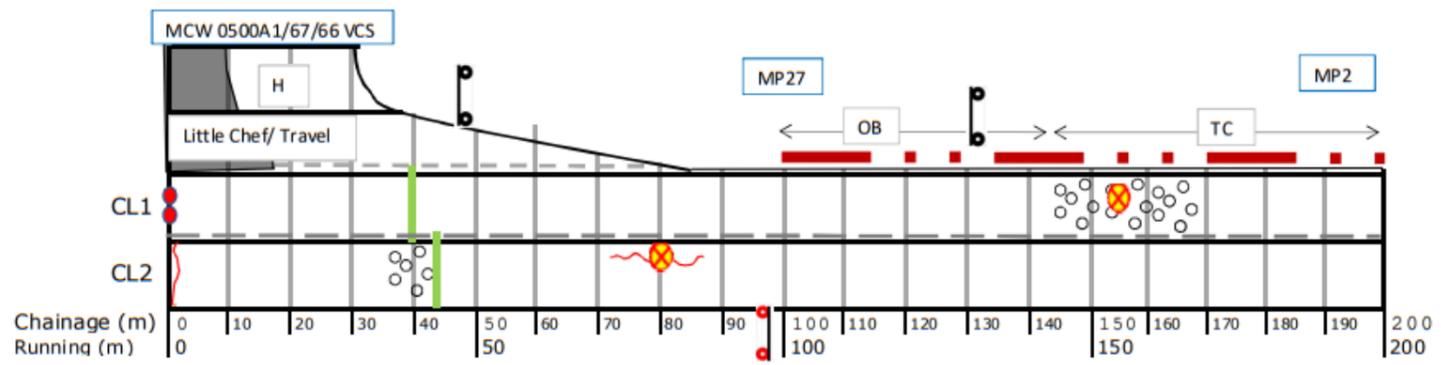


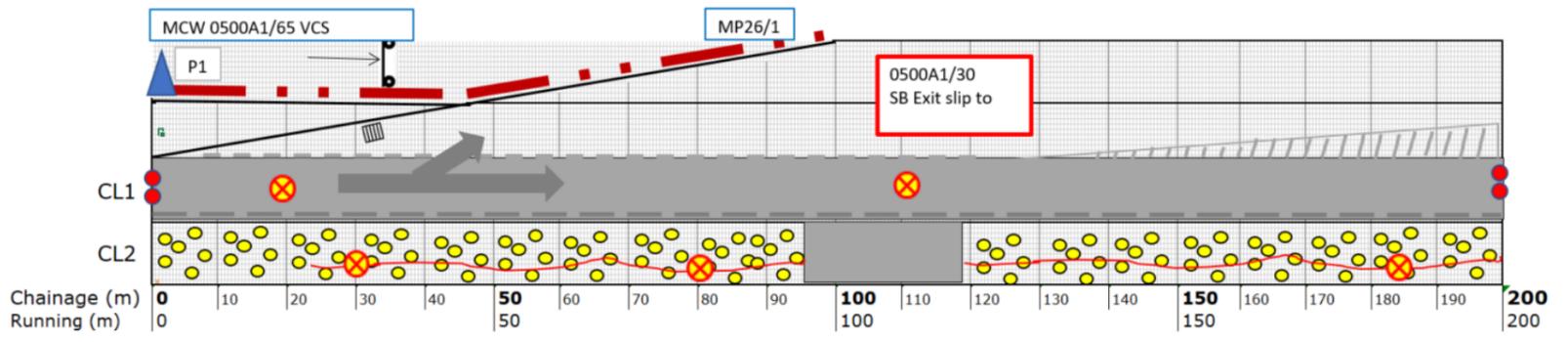












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Survey Schedule

Survey Schedule										
Scheme Name : A15Ibson to J17 SB Pboro Resur PIN : RRP0718 Scheme Length (m) : 5839 Scheme Year : RIS 2 Y1 HAPMS Section Ref : 0500A1/75/73/282/283/121/119/90/67/66/65/285/106/104/30										
Pavement Investigations										
Survey Type	Chart Section Ref	Start Ch	End Ch	CROSS SECTION	OSWT	NSWT	Centre	DCP	Other	Comments
Cores/DCP	0500A1/75	20	20	CL2			✓			Construction core
	0500A1/75	50	50	CL1			✓	✓		On patch
	0500A1/75	180	180	CL1			✓			Construction core
	0500A1/75	180	180	CL2			✓	✓		Construction core
	0500A1/75	300	300	CL2	✓					On patch
	0500A1/75	304	304	CL2		✓				Longitudinal Crack
	0500A1/75	462	462	CL1			✓	✓		Transverse crack
	0500A1/75	462	462	CL2			✓			Transverse crack
	0500A1/75	510	510	CL1		✓		✓		Longitudinal Crack
	0500A1/75	642	642	CL1	✓					Localised cracking
	0500A1/75	680	680	CL2			✓			On patch
	0500A1/75	700	700	CL1			✓	✓		Localised cracking
	0500A1/75	820	820	CL1			✓			On patch
	0500A1/75	855	855	-CL1		✓				Localised cracking in layby
	0500A1/75	880	880	CL1			✓	✓		Patch
	0500A1/75	992	992	CL1	✓		✓			Localised cracking
	0500A1/75	1100	1100	CL1			✓			On patch
	0500A1/73	30	30	CL1			✓	✓		On patch
	0500A1/73	100	100	CL2	✓			✓		Construction core
	0500A1/73	264	264	CL1			✓	✓		Transverse crack
	0500A1/73	370	370	CL2			✓	✓		On patch
	0500A1/73	460	460	CL1			✓			On patch
	0500A1/73	475	475	CL2			✓			Localised cracking
	0500A1/73	590	590	CL2			✓	✓		On patch
	0500A1/73	629	629	CL2		✓		✓		Localised cracking
	0500A1/282	10	10	CL2		✓				On patch
	0500A1/282	60	60	CL2		✓		✓		Localised cracking
	0500A1/282	90	90	CL1	✓					On patch
	0500A1/282	104	104	CL2	✓					Transverse crack
	0500A1/282	119	119	CL1	✓			✓		Longitudinal Crack
	0500A1/282	165	165	CL2		✓				Localised cracking
	0500A1/282	240	240	CL1		✓		✓		Localised cracking
	0500A1/282	320	320	CL1	✓			✓		Localised cracking
	0500A1/282	420	420	CL2		✓				On patch
	0500A1/283	525	525	CL1			✓			On patch
	0500A1/282	540	540	CL2	✓			✓		Localised cracking
	0500A1/282	667	667	CL1		✓		✓		Longitudinal Crack
	0500A1/282	692	692	CL1		✓		✓		Longitudinal Crack
	0500A1/282	770	770	CL2			✓	✓		On patch
	0500A1/282	811	811	CL2			✓			On patch
	0500A1/282	910	910	CL1		✓		✓		On patch
	0500A1/282	930	930	CL2			✓	✓		Fretting
	0500A1/282	980	980	CL2			✓	✓		On patch
	0500A1/282	1090	1090	CL1			✓	✓		On patch
	0500A1/282	1200	1200	CL2			✓	✓		Transverse crack
	0500A1/282	1250	1250	CL1			✓	✓		On patch
	0500A1/283	80	80	CL1			✓	✓		Construction core
	0500A1/283	88	88	CL2	✓			✓		Transverse crack
	0500A1/283	197	197	CL2			✓	✓		Transverse crack
	0500A1/283	308	308	CL1			✓	✓		Transverse crack
	0500A1/283	316	316	CL2	✓			✓		Longitudinal Crack
	0500A1/121	12	12	CL2			✓	✓		Transverse crack
	0500A1/121	74	74	CL2			✓	✓		Transverse crack
	0500A1/121	140	140	CL2	✓					On patch
	0500A1/121	219	219	CL1			✓	✓		Transverse crack
	0500A1/121	310	310	CL1			✓	✓		Construction core
	0500A1/121	354	354	CL2			✓	✓		Transverse crack
	0500A1/121	500	500	CL2			✓	✓		Construction core
	0500A1/119	40	40	CL1			✓	✓		Construction core
	0500A1/119	175	175	CL1			✓	✓		Construction core
	0500A1/119	188	188	CL2			✓	✓		Localised cracking
	0500A1/119	225	225	CL1			✓	✓		Transverse crack
	0500A1/119	242	242	CL2			✓	✓		Longitudinal Crack
	0500A1/119	420	420	CL1			✓	✓		Transverse crack
	0500A1/119	430	430	CL2			✓	✓		Construction core
	0500A1/90	60	60	CL1			✓	✓		On patch
	0500A1/90	70	70	CL2			✓	✓		On patch
	0500A1/90	128	128	CL2		✓		✓		Longitudinal Crack
	0500A1/90	198	198	CL2			✓	✓		Transverse crack
0500A1/67	80	80	CL2		✓		✓		Longitudinal Crack	
0500A1/67	155	155	CL1			✓	✓		Construction core	
0500A1/67	280	280	CL2	✓					Fretting	
0500A1/67	341	341	CL1			✓	✓		Construction core	
0500A1/67	470	470	CL1			✓	✓		On patch	
0500A1/67	530	530	CL2			✓	✓		Construction core	
0500A1/67	650	650	CL1			✓	✓		Construction core	
0500A1/67	730	730	CL2			✓	✓		Construction core	
0500A1/67	890	890	CL1			✓	✓		Construction core	
0500A1/67	970	970	CL2	✓			✓		Construction core	
0500A1/65	20	20	CL1		✓		✓		On patch	
0500A1/65	30	30	CL2	✓			✓		Longitudinal Crack	
0500A1/65	80	80	CL2	✓			✓		Longitudinal Crack	
0500A1/65	110	110	CL1			✓	✓		On patch	
0500A1/65	185	185	CL2	✓			✓		Longitudinal Crack	
DFG Survey	Section	Lane Length	DCW L1/L2	Slip Road Lanes	LM					
	0500A1/75	1110	L1 and L2	N/A	2220					
	0500A1/73	691	L1 and L2	N/A	1382					
	0500A1/282	1300	L1 and L2	N/A	2600					
	0500A1/283	346	L1 and L2	N/A	692					
	0500A1/121	518	L1 and L2	N/A	1036					
	0500A1/119	493	L1 and L2	N/A	986					
	0500A1/90	198	L1 and L2	N/A	396					
	0500A1/67	983	L1 and L2	N/A	1966					
	0500A1/65	200	L1 and L2	N/A	400					
				Total	11678					
FWD Survey	N/A									
GPR Survey	N/A									
Any other surveys	N/A									
Any additional comments:										
Chart sections 0500A11/66 does not require DFG or coring.										