

**National Asset Delivery
Technical Surveys and Testing**

Works Information for

**605746-004 A120 EB Panners to Galleys
Resurfacing**

Coring and DCP Survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	JK	05/11/20

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TABLE OF CONTENTS

1	Description of the works	4
2	Existing Information	Error! Bookmark not defined.
3	Constraints on how the Contractor Provides the Works	4
4	Requirements for the programme	6
5	Services and other things provided by the <i>Employer</i>	7
6	Specification for the works	8

LIST OF ANNEXES

Appendix 1	Supplementary Constraints
Appendix 2	Location Plans and works extents
Appendix 3	Testing Plans
Appendix 4	Survey Schedules

1 DESCRIPTION OF THE WORKS

1.1 Project objectives

1.1.1 The principal objective of this project is to carry out pavement investigations at A120 eastbound Panners to Galleys.

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

1.2 Scope of works

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

All site works to be undertaken in accordance with the requirements set out in DMRB CS 229. Carry out coring in lane 1 and 2 (up to 12 cores/DCP per night), as per locations shown on the investigation plans supplied by Highways England in Appendix 3. Cores to be 150mm diameter to full depth of bound layer with site photos taken of the extracted core and core hole. Carry out DCP testing in core holes as indicated on the investigation plans supplied by Highways England, where safe to do so.

1.3 Deliverables

1.3.1 The *Contractor* 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 a core log for each core.
- (3) Produce a DCP plot and layer table for each DCP test.
- (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 of cores required which require DCP is provided in Appendix 4 and additional information including plans detailing locations of cores, DCP test is shown in Appendix 3.

2.1.2 Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

3.1 General

- 3.1.1 The *Contractor* Provides the Works in such manner as to minimise the risk of damage or disturbance to or destruction of third-party property.
- 3.1.2 The *Contractor* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Contractor* submits information detailing how the *Contractor* will provide the Works to the *Employer* prior to the *works* commencing. This information will include any lifting plans, risk assessments, method statements, the *Contractor's* staff training information and any other relevant Health and Safety requirements.

3.2 Working hours & site-specific constraints

- 3.2.1 The *Contractor's* working hours for site works shall be 8.00pm to 6.00am Monday to Friday (starting from Monday night at 8.00pm and ending on Saturday morning at 6.00am).
- 3.2.2 All work on main carriageway and associated slip roads and lay-bys.
- 3.2.3 Traffic Management to be provided through the Highways England Construction Works Framework (CWF).

3.3 Health, Safety and Environment & Risk Management

Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* shall comply with the requirements of Highways England's safety passport scheme and ensure that all his employees, and any of his subcontractor's, 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 (PCI) included in the tender documents, Construction Phase Plan & other PCI to be provided upon successful tender.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

Environmental requirements

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

Risk Management

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

4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works taking into account the following programme constraints:
- (i) the *starting date* and *completion date* and any post site works, reporting and review period
 - (ii) The services and other things provided by *Employer* (see Section)
 - (iii) Results to be issued within 2 weeks of completing site work or as agreed with the Highways England Project Manager.
- 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* & *Contractor'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 traffic management requirements if different to set up identified at tender.

4.1.5 The *Contractor* updates the programme every 3 days or as agreed with the Highways England Project Manager. The *Contractor* submits an updated programme to the *Employer* upon request.

5 SERVICES AND OTHER THINGS PROVIDED BY THE *EMPLOYER*

5.1.1 The following temporary traffic management will be provided by the *Employer* to allow the *Contractor* to Provide the Works:

- (1) CWF to provide traffic management.
- (2) Duration: 5 shifts (expectation of up to 12 cores per shift and DCP)
 - Shift 1-3: Full L1 & L2 closure
 - Shift 4-5: Slip road closure

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

- (1) Welfare facilities will be provided by the principal contractor.

6 SPECIFICATION FOR THE WORKS

6.1.1 The *Contractor* shall undertake the works in accordance with:

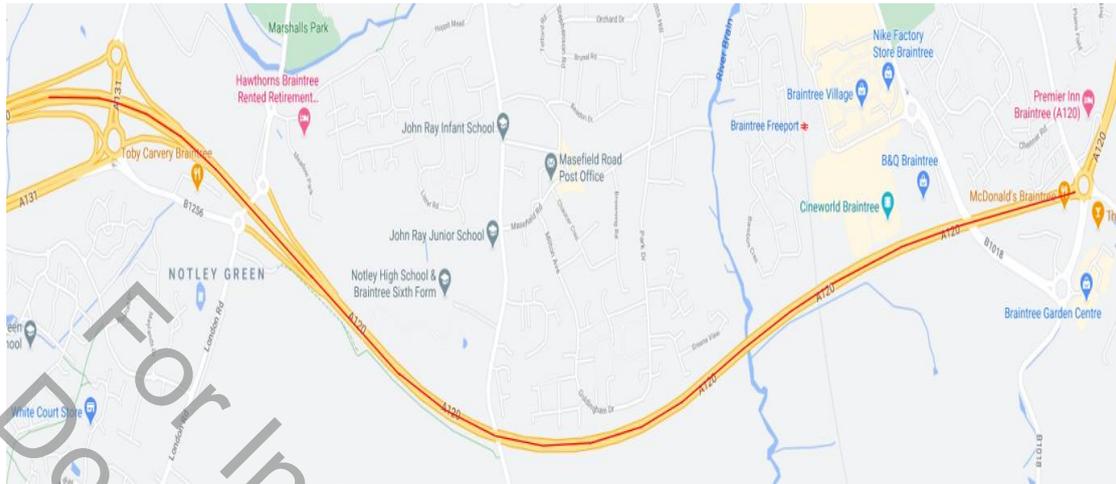
6.1.2 DMRB CS 229

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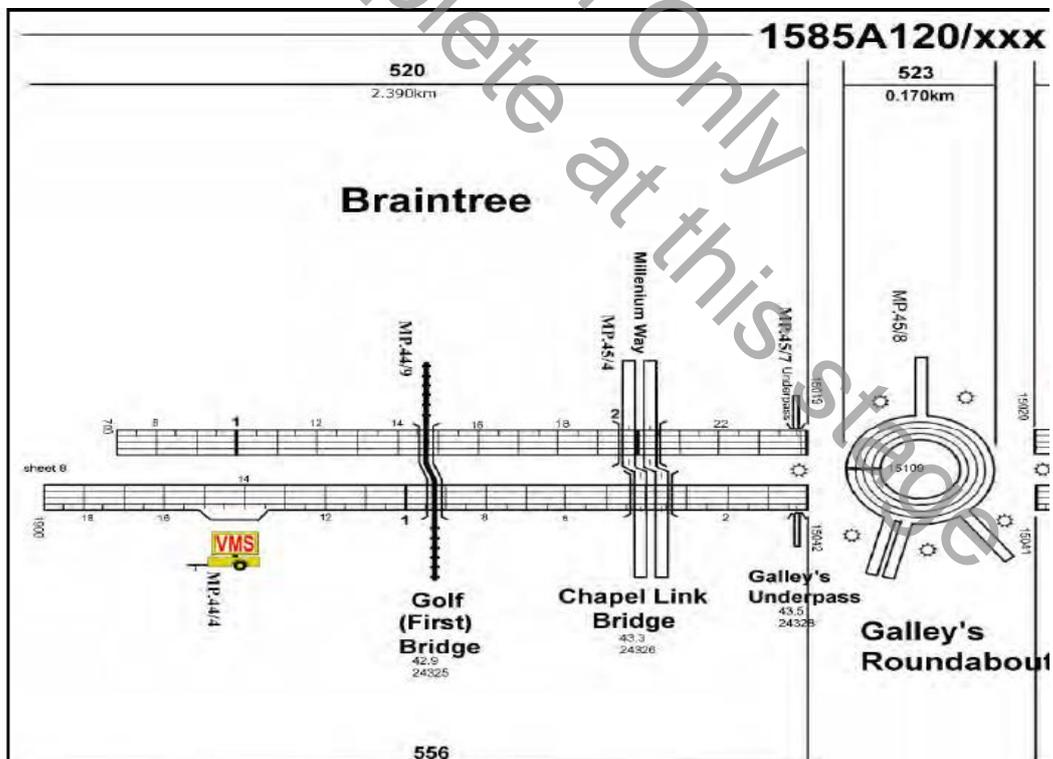
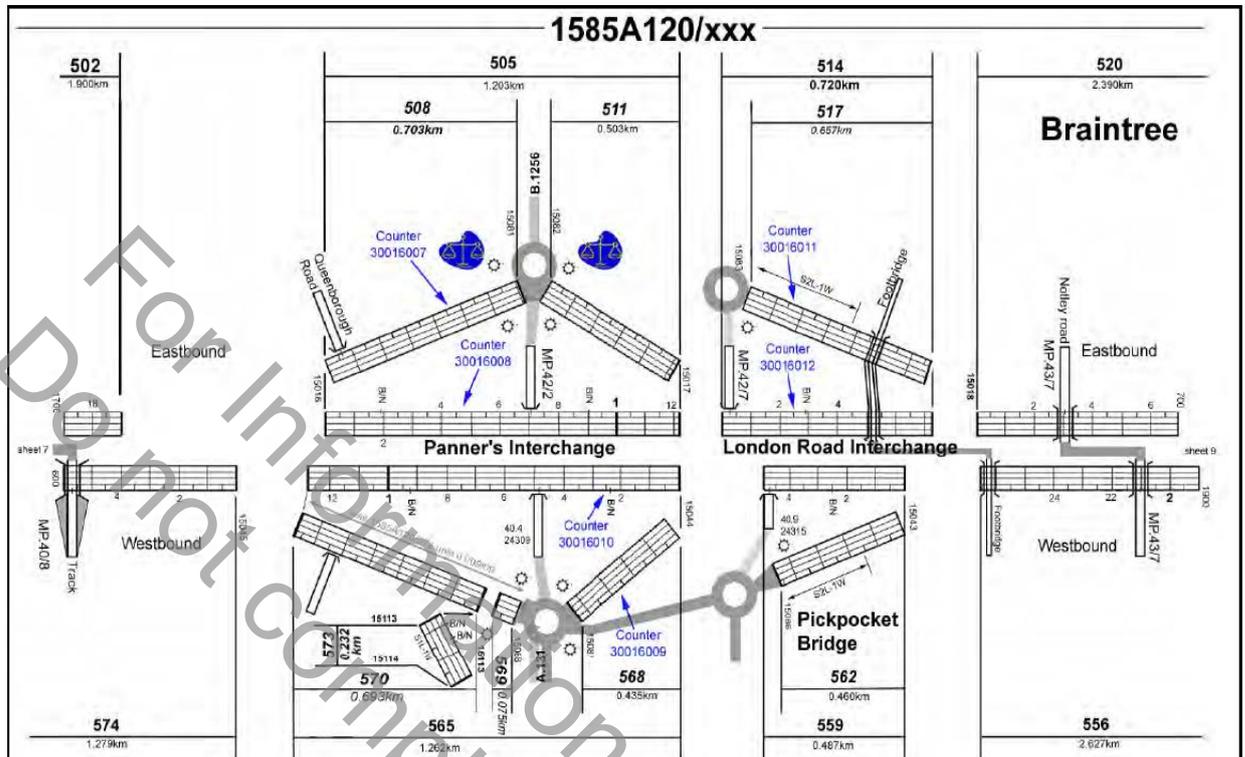
Appendix 1 – Supplementary constraints

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Appendix 2 – Location Plans and works extents

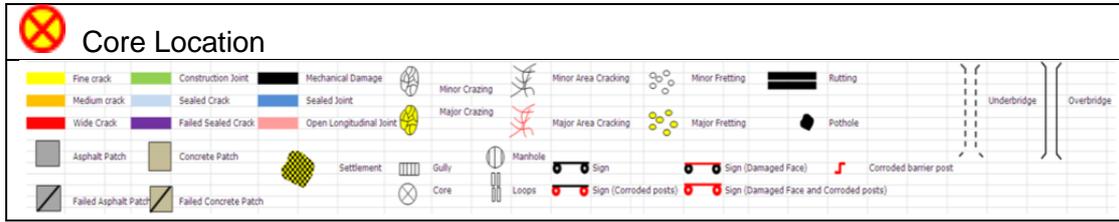


605746-004 RRP0821 A120 EB Panners to Galleys Resurfacing

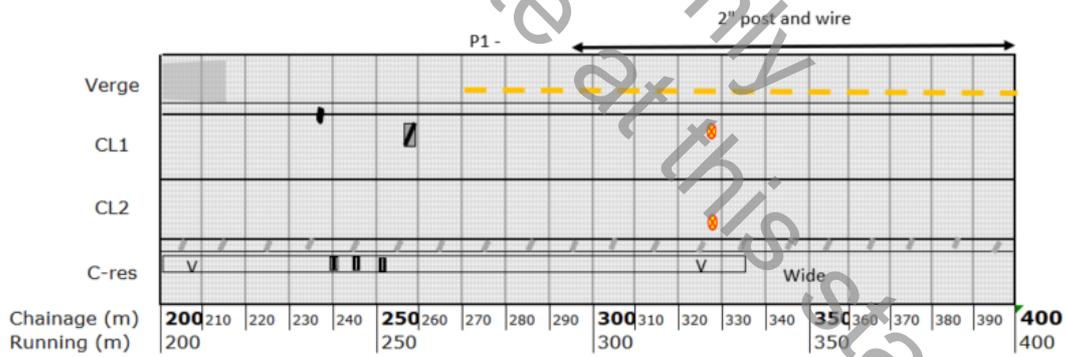
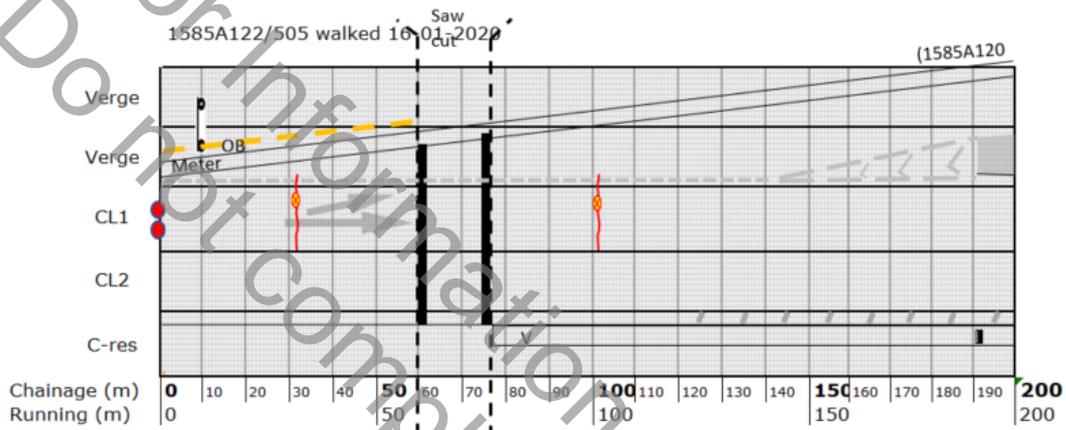


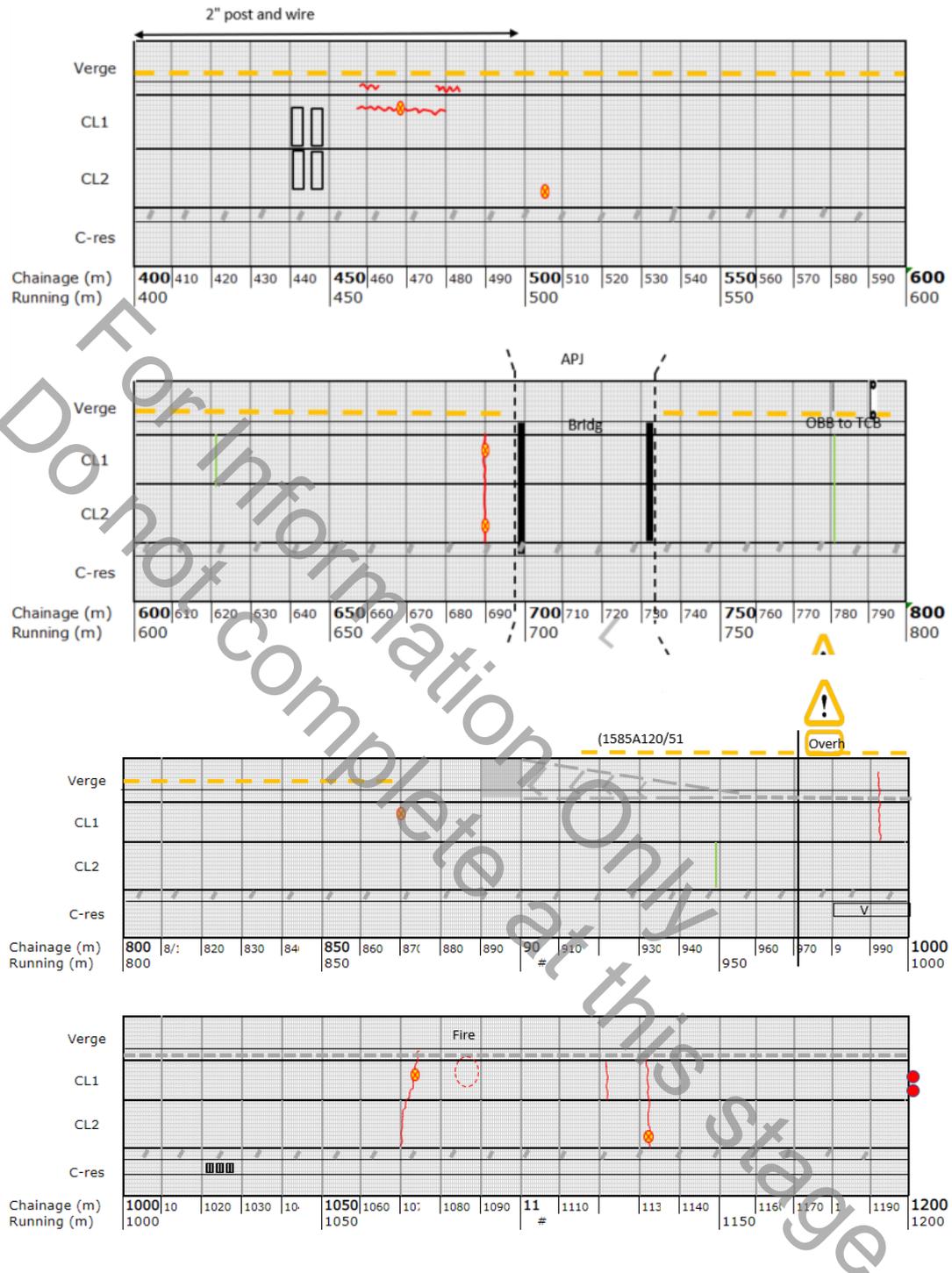
Appendix 3 – Testing Plans

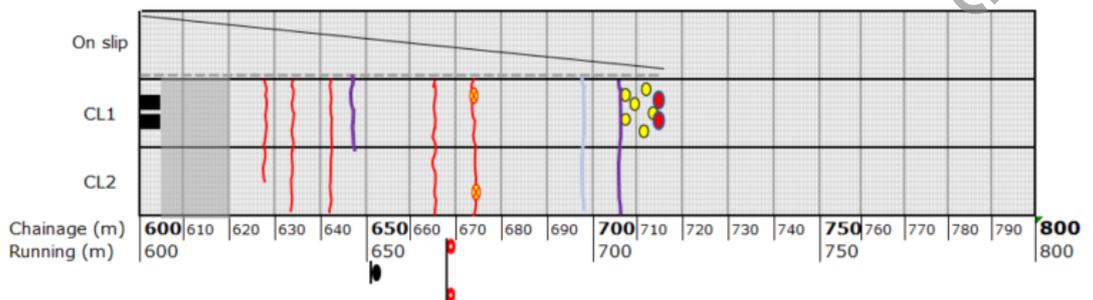
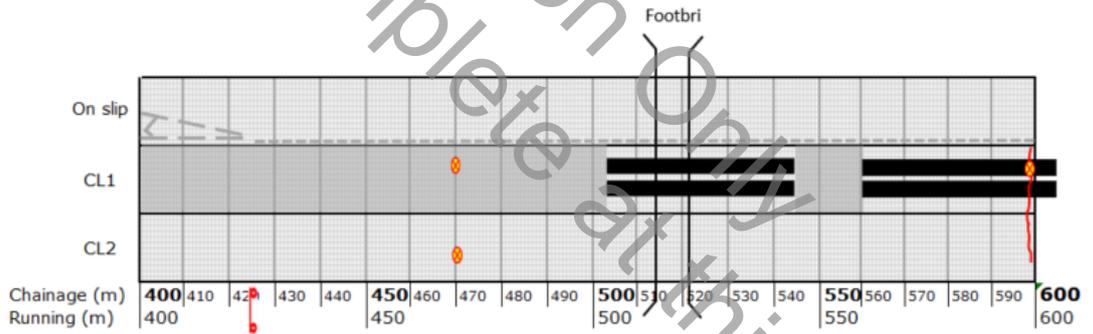
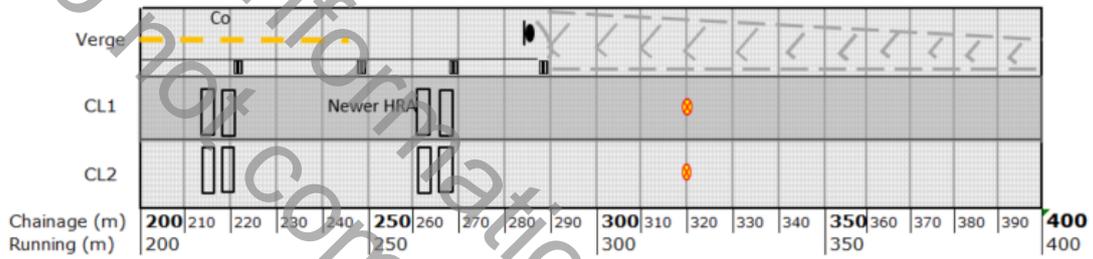
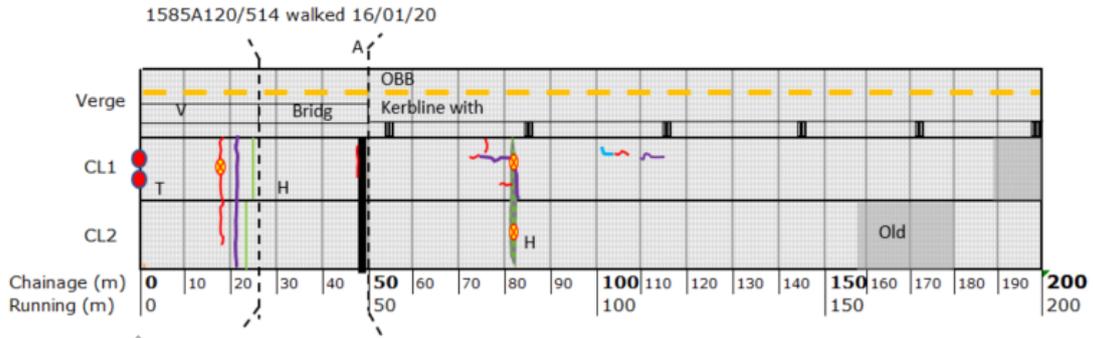
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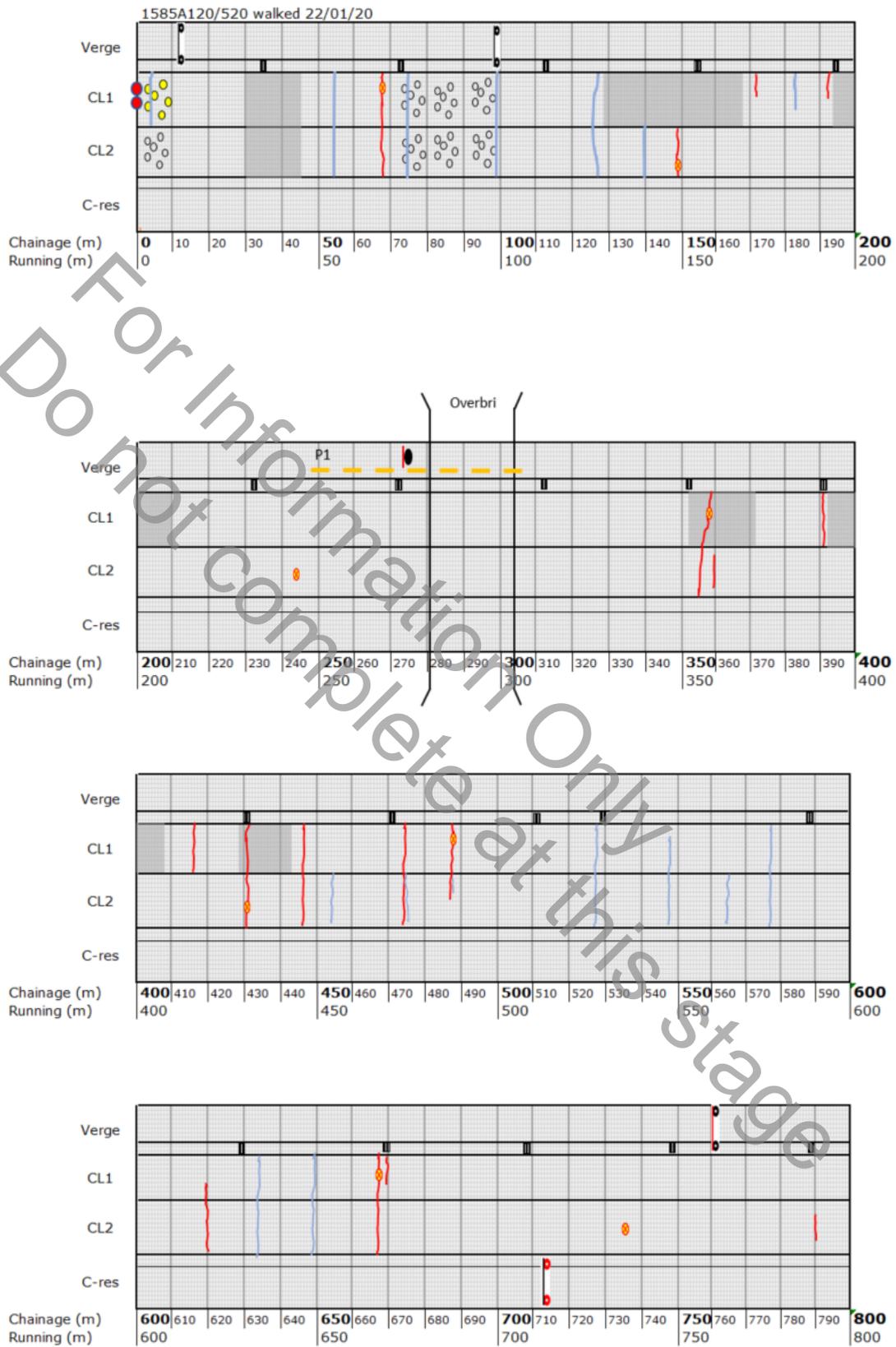


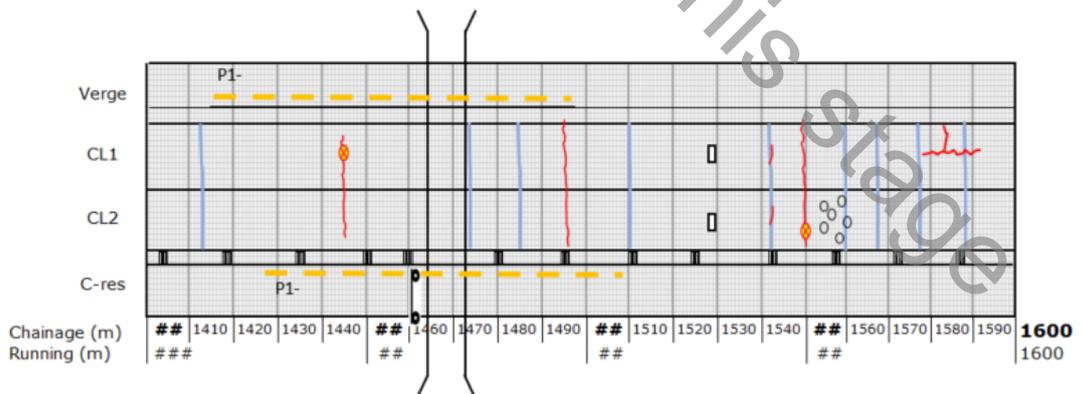
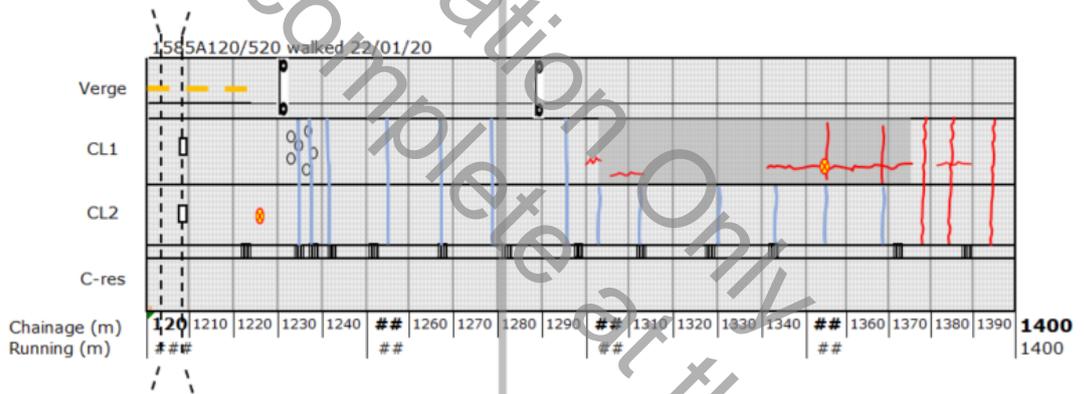
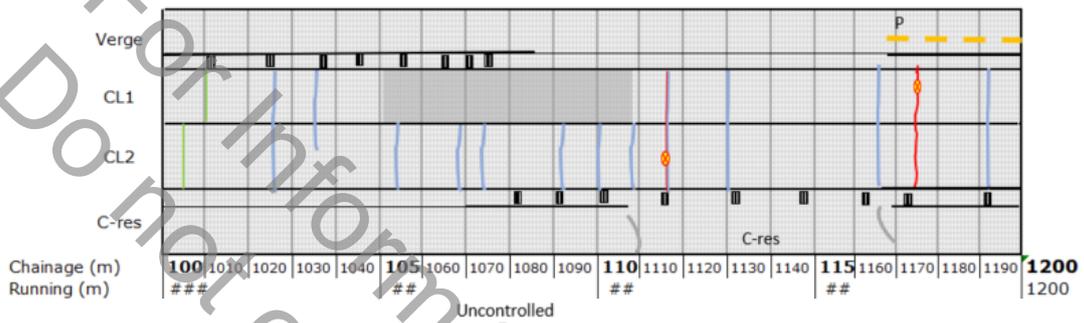
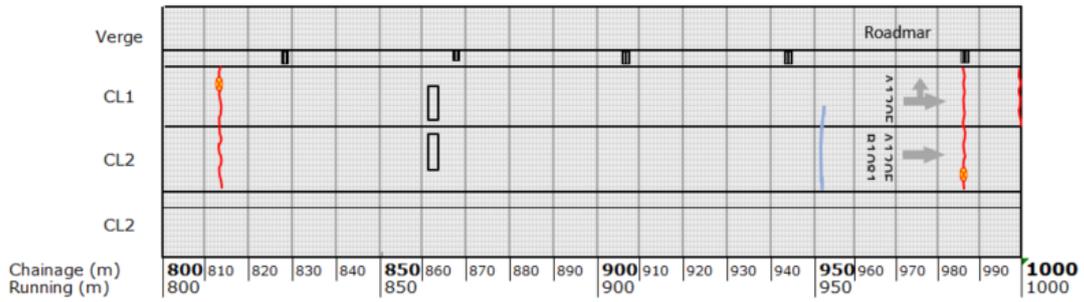
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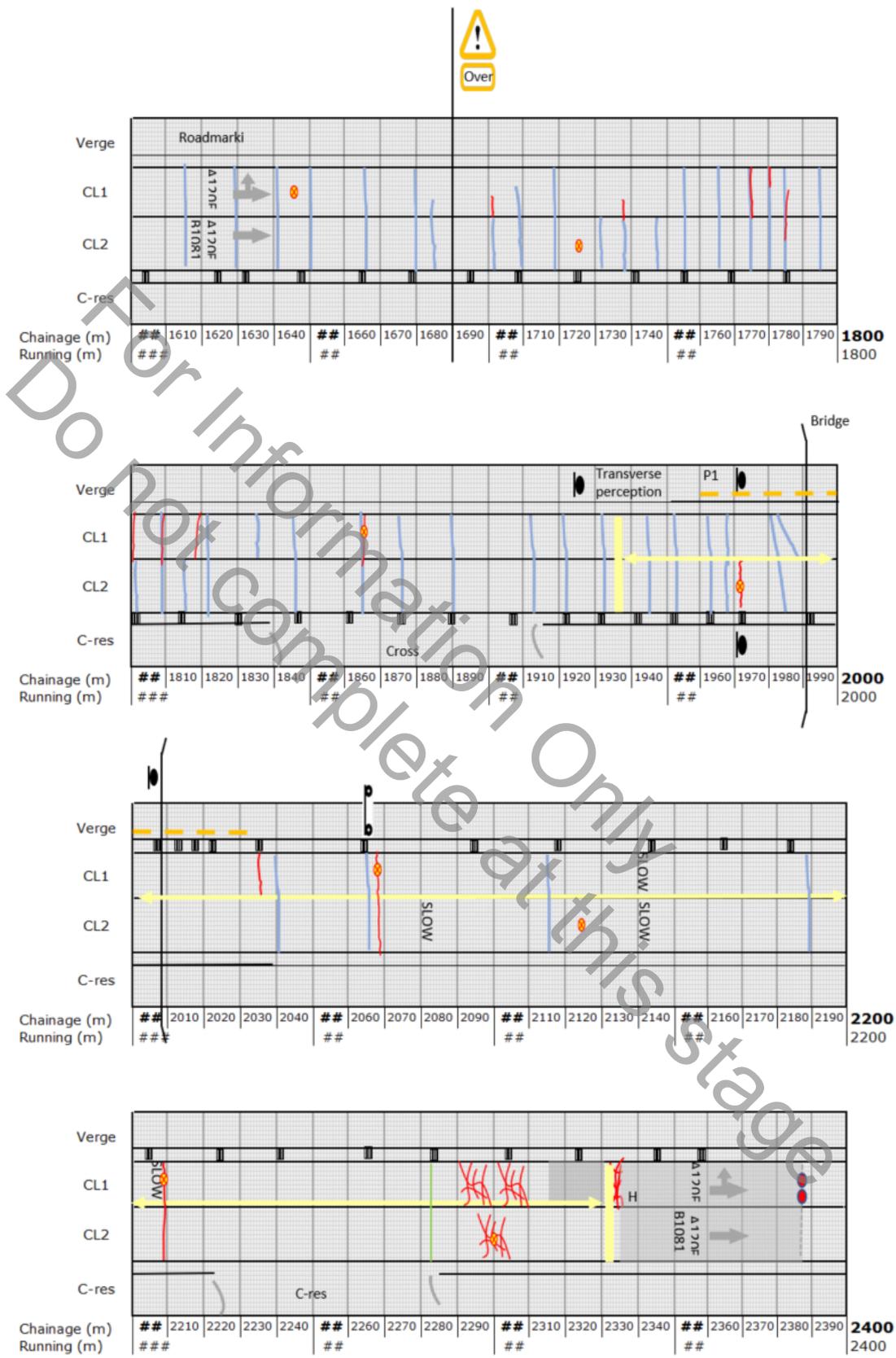


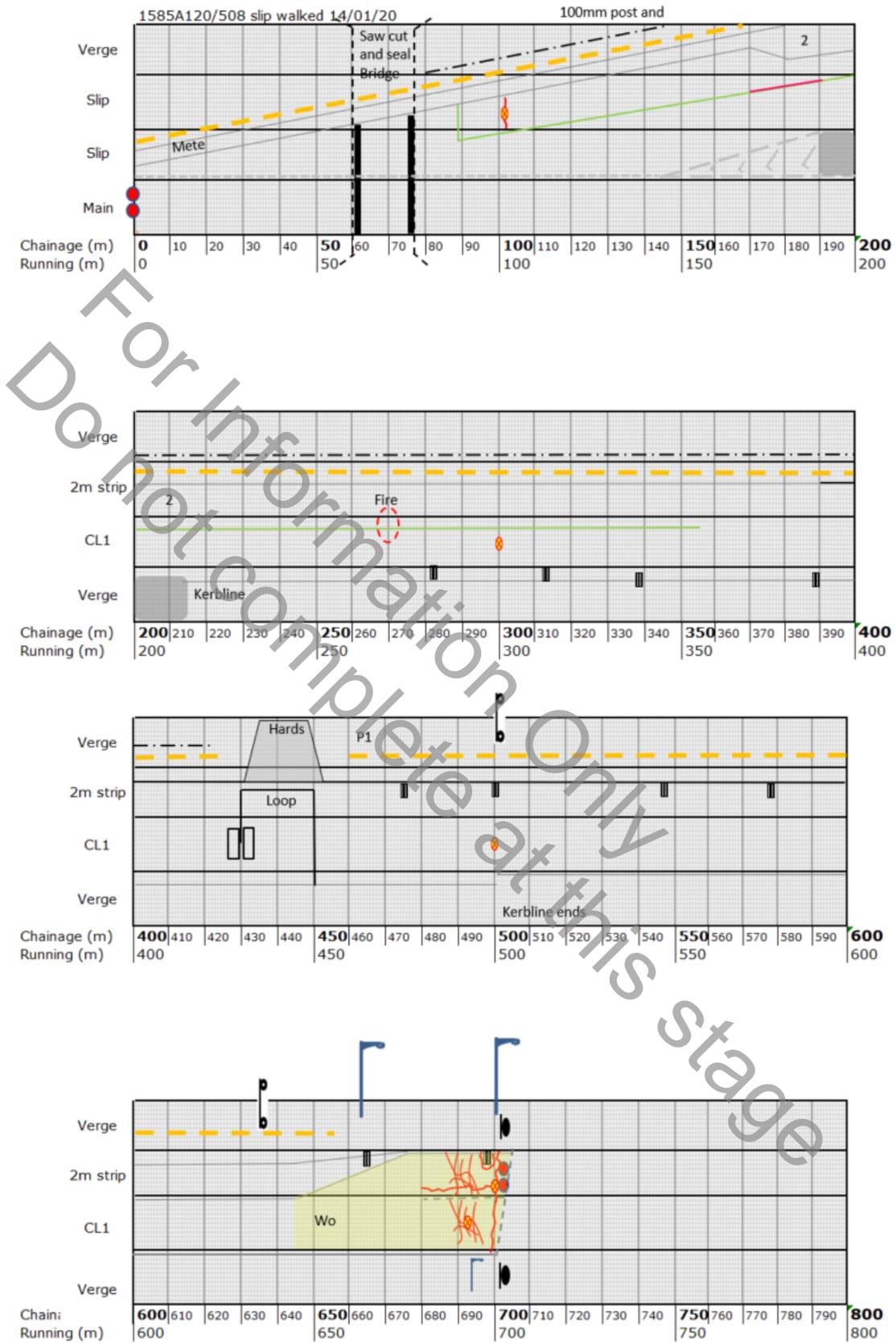


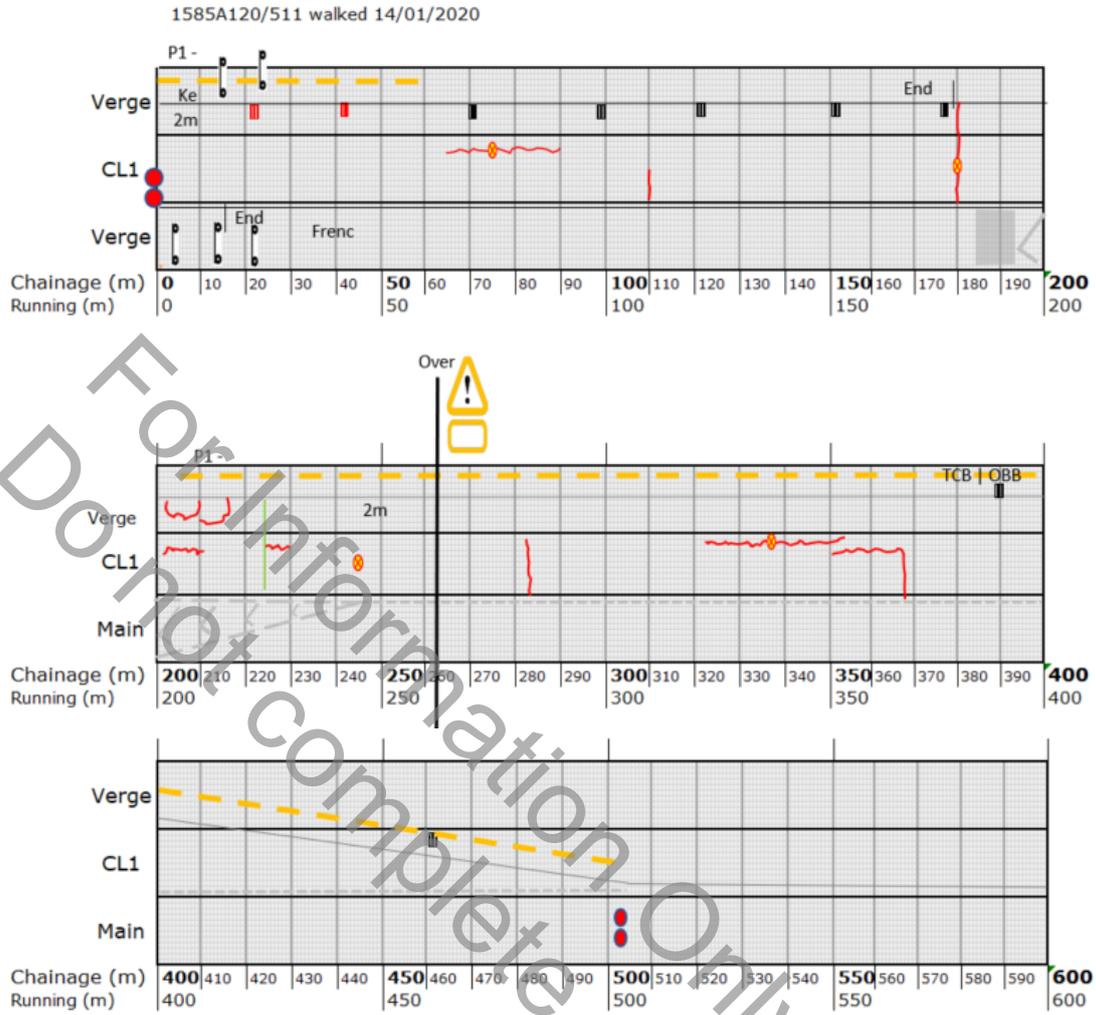


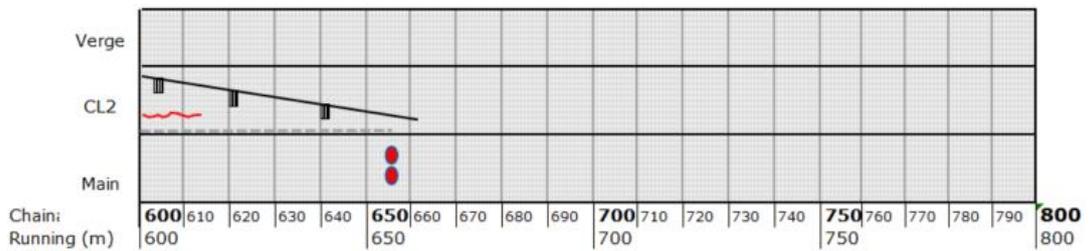
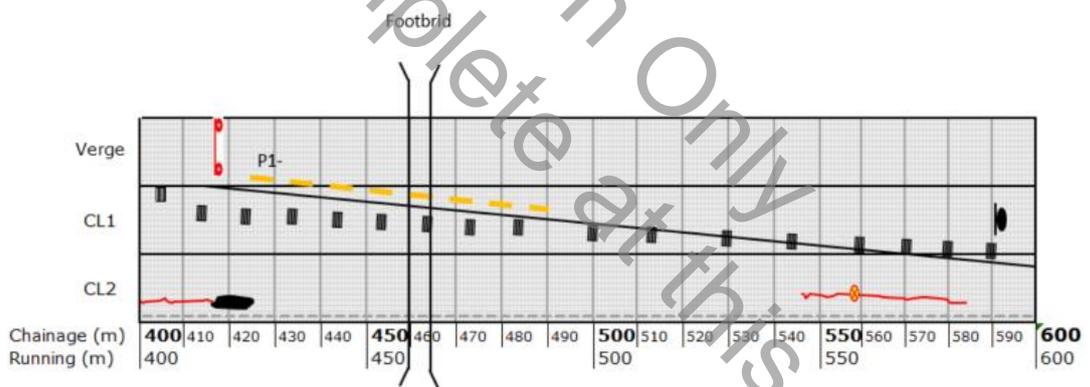
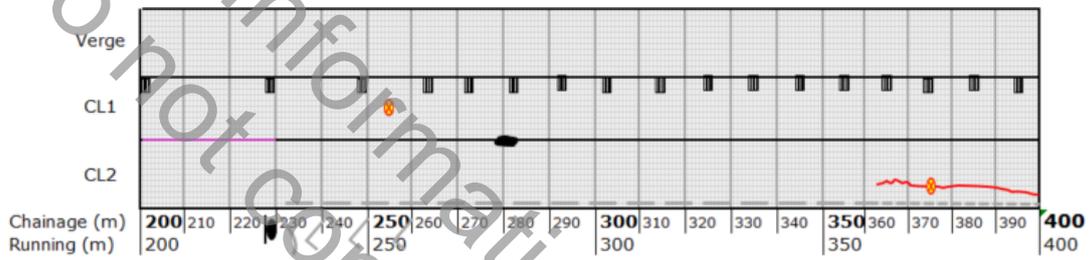
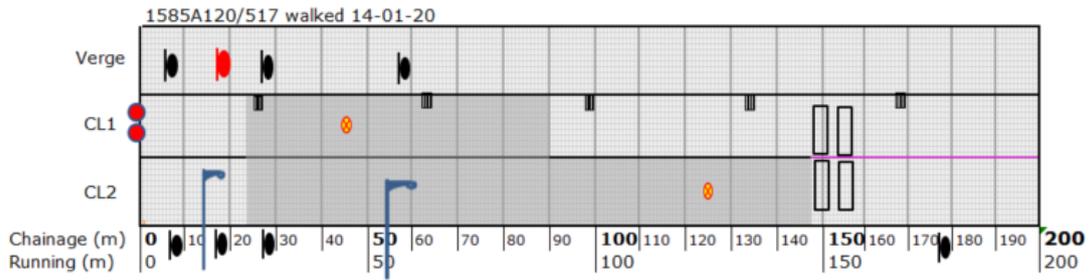












Appendix 4 – Core and DCP Survey Schedules

605746-004 RRP0821 A120 EB Panners to Galleys Resurfacing

HAPMS Section Ref		1585A120/505-514-520-508-511-517									
Pavement Investigations											
Survey Type	Chart Section Ref	Chainage	Lane	NSWT	OSWT	Centre	DCP	Other	Comments		
Cores/DCP	1585A120/	505	32	CL1	✓						Transverse crack
	1585A120/	505	102	CL1	✓			✓			Transverse crack
	1585A120/	505	328	CL1	✓			✓			Construction core
	1585A120/	505	328	CL2			✓	✓			Construction core
	1585A120/	505	468	CL1	✓		✓				Longitudinal crack
	1585A120/	505	505	CL2			✓				Construction core
	1585A120/	505	690	CL1	✓			✓			Construction core
	1585A120/	505	690	CL2			✓				Construction core
	1585A120/	505	870	CL1	✓						Transverse crack
	1585A120/	505	1132	CL2			✓				Transverse crack
	1585A120/	514	18	CL1	✓			✓			Transverse crack
	1585A120/	514	82	CL1	✓			✓			Heave
	1585A120/	514	82	CL2			✓				Heave
	1585A120/	514	320	CL1			✓	✓			Construction core
	1585A120/	514	320	CL2			✓	✓			Construction core
	1585A120/	514	470	CL1	✓			✓			Construction core
	1585A120/	514	470	CL2			✓				Construction core
	1585A120/	514	598	CL1	✓			✓			Transverse crack
	1585A120/	514	674	CL1	✓			✓			Transverse crack
	1585A120/	514	674	CL2			✓				Transverse crack
	1585A120/	520	68	CL1	✓						Transverse crack
	1585A120/	520	148	CL2			✓	✓			Transverse crack
	1585A120/	520	244	CL2			✓				Construction core
	1585A120/	520	358	CL1	✓			✓			Transverse crack
	1585A120/	520	432	CL2			✓				Transverse crack
	1585A120/	520	487	CL1	✓			✓			Transverse crack
	1585A120/	520	667	CL1	✓			✓			Transverse crack
	1585A120/	520	735	CL2			✓				Construction core
	1585A120/	520	814	CL1	✓			✓			Transverse crack
	1585A120/	520	986	CL2			✓				Transverse crack
	1585A120/	520	1116	CL2			✓	✓			Transverse crack
	1585A120/	520	1175	CL1			✓				Transverse crack
	1585A120/	520	1226	CL2			✓	✓			Construction core
	1585A120/	520	1354	CL1			✓	✓			Longitudinal crack
	1585A120/	520	1445	CL1			✓	✓			Transverse crack
	1585A120/	520	1549	CL2			✓	✓			Transverse crack
	1585A120/	520	1645	CL1			✓	✓			Construction core
	1585A120/	520	1725	CL2			✓	✓			Construction core
	1585A120/	520	1865	CL1	✓			✓			Transverse crack
	1585A120/	520	1972	CL2			✓	✓			Transverse crack
	1585A120/	520	2068	CL1	✓			✓			Transverse crack
	1585A120/	520	2125	CL2			✓	✓			Construction core
	1585A120/	520	2209	CL1			✓	✓			Transverse crack
	1585A120/	520	2300	CL2			✓	✓			Area cracking
	1585A120/	508	102	CL1			✓	✓			Transverse crack
	1585A120/	508	300	CL1			✓	✓			Construction core
	1585A120/	508	500	CL1			✓	✓			Construction core
	1585A120/	508	692	CL2			✓	✓			Area cracking
	1585A120/	508	700	CL1			✓	✓			Transverse - longitudinal crack
	1585A120/	511	75	CL1			✓	✓			Longitudinal crack
	1585A120/	511	180	CL1			✓	✓			Transverse crack
	1585A120/	511	245	CL1			✓	✓			Construction core
	1585A120/	511	335	CL1	✓			✓			Longitudinal crack
	1585A120/	517	45	CL1			✓	✓			Construction core
	1585A120/	517	125	CL2			✓	✓			Construction core
	1585A120/	517	250	CL1			✓	✓			Construction core
	1585A120/	517	375	CL2			✓	✓			Longitudinal crack
	1585A120/	517	560	CL2			✓	✓			Longitudinal crack