	Inspection and Test Plan - Chipsealing								
Downer -	Site Location:					Sealing Date:			
	Contract:								
ITP Prepared By:			ITP Approved By:						
Date:			Date:					1	
Activity Description	Verification Activity	Methods or Reference	Frequency	Acceptance Criteria	Hold / Witness Point	Records	Responsible Person	Completed?	
				Chipseal Surfacing					
	erification point beyond which work il one of these parties is able to veri			Witness Point: An identified point in the process where the design Inspector may review, witness, inspect method or process of wor					
				Design					
Treatment Selection	Physical / Site video/photographic record	Asset Team - Base Preservation	Annually Pre-reseal	Documented approval from at time of Tender -Team/Client	Mandatory HOLD POINT - Client Approval	Approved Seal Designs	Sealing Contract Manager / Engineer		
Chipseal Design	Peer review by Authorised Seal Design Approver	Chipsealing in NZ	One per design prior to commencing onsite	Design meets requirements of P17	Mandatory HOLD POINT - Seal Design peer Reviwer - Client Approval	Peer Reviewed Seal Designs	Sealing Contract Manager / Engineer		
				Materials Testing					
Size (Grades 2-5) & Shape (Grades 2-4)	Lab Test	NZTA M/6	1/500m3	Size (ald mm) G2 9.5-12.0 G3 7.5-10.0 G4 5.5-8.0 G5 Report	Witness Point	IANZ Lab Reports	Sealing Contract Manager / Engineer		
				Shape  AGD/ALD Ratio G2,3,4 = 2.25 max  G2,3,4 = min 98% with 2+ broken faces					
Cleanliness (Grades 2-6)	Lab Test	NZTA M/6	1/500m3	Cleanness value					
Compatibility (Multi Layered seals)	Comparison Of Chip ALD	Chipsealing in New Zealand NZTA (NZTA 2005)	11.5	Two Coat Seal Aggregate Compatibility  8 6	Witness Point	IANZ Lab Reports	Sealing Contract Manager / Engineer		
			7.2	0 2 4 6 8 10 12 14					
Bitumen Distributor	IANZ Lab E/2 Results	Code of Compliance	Annual	Speed Test(+-3% over 100m), Dipstick Test (+-50L over 2000L), Matt Test (app rate within 0.10L/m2, longitudinal within 10%, thirds within 5%, transverse within 20%)	Mandatory HOLD POINT - Client - Engineer Witness	RNZ E2 Certificate	Sealing Contract Manager / Engineer		
Emulsion/PME Testing	Lab Testing	Manufacture Specification	Per Emulsion/Bitumen Production Batch	Bitumen Content, ITM 11-01, Viscosity, ITM 10-02, PH ITM-08-02	Witness Point	IANZ Lab Reports	Road Science		
Crushing Resistance	Lab Testing	NZS 4407:3.10	1/10000m3	< 10% passing 2.36mm sieve at 230kN	Hold Point	IANZ Lab Reports	Sealing Contract Manager /		
Weather Quality Index	Lab Testing	NZS 4407:3.11	1/10000m3	AA or BA	Hold Point	IANZ Lab Reports	Engineer		
				Surface Inspection					
Surface Texture - Measurement	Sandcircle Measurement  ARRB Hawkeye or	NZTA T/3	At time of Seal Inspection	Texture evaluation for each site complete to validate design texture assumption, where differs application altered to meet onsite texture	Witness Point	Sandcircle Data  Hawkeye Data	Sealing Contract Manager / Engineer		
	NZTA HSD	1	1			High Speed Data	1		

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Activity Description	Verification Activity	Methods or Reference	Frequency	•	Hold / Witness Point	Records	Responsible Person	Completed?
				Chipseal Surfacing				
HOLD POINT: A mandatory verification point beyond which work cannot proceed without approve work cannot proceed until one of these parties is able to verify acceptance and releases the He			Witness Point: An identified point in the process where the design Inspector may review, witness, inspect method or process of wor					
Pre Seal Survey	Downer Survey or MS Forms Pre Reseal Inspection	Downer Survey or MS Forms Pre Reseal Inspection	At time of Seal Inspection	Record & any noted issues / Client	Witness Point	Lucidity	Sealing Contract Manager / Engineer	
Construction Compliance testing			24 hours in advance of seal construction commencement	Confirmation from renewals manager all testing has met requirements	Hold Point	Email Confirmation	Sealing Contract Manager / Engineer	
				Seal Construction				
Go/No Go Survey	Visual, Zeus, Iris	Downer Survey Sealing Go / No Go, Road Science Zeus app & Downer Iris app	Prior to sealing on each site	Pass on Go / No Go, Marginal & discussion with Contract Manager or written approval from Rehab Manager	Witness Point	Lucidity	Supervisor / Foreperson / QA	
Pavement Markings/RRPMs	Tagging of existing Pavement Markings, Removal of RRPMs	Pavement Marking Set Out Sheet, CBP	Prior to sealing on each site	All raised pavement markers to be removed (1st & 2nd Coat Seal surfaces excluded) and existing line marking "tagged". Check for any new markings required	Witness Point	None	Foreperson / QA	
Road Furniture & Sumps protected	Visual Inspection	Crew Breifing Plan / Visual	Prior to sealing on each site	Protect all road furniture in accordance with Crew Breifing Plan. Fabric & protect all sumps.	Witness Point	None	Foreperson	
Surface Condition/Temp	Physical / Visual Inspection	Visual / NZTA T/3	Prior to sealing on each site	Surface area shall be dry and free from any loose chip, dust, dirt, vegetation. Temperature recorded on site prior to sealing commencing	Witness Point	None	Foreperson / QA	
Stockpiles	Visual Inspection	СВР	Each Stockpile	Correct Source, Grade and quantity. Uniquely Identified.	Witness Point	Sealing Data Docket	Foreperson	
Spraying	Paper Start and Finish all runs	Spray Runs	All Runs	Mark out start / Finish	Witness Point		Sealing Contract Engineer / QA	
Sealing	Longitudinal Joints out side of wheel tracks	Spray Runs	All Runs	Mark out lane lines by construction team	Witness Point		Sealing Contract Engineer / QA	
Binder Application Rate	Tank Level dips prior to and after spray run	Dipstick	At Beginning of the day After 1st spray run of site After last spray run of site At end of tank prior to loading	Quantities used to be within the desired tolerance of design Spray Rate	Mandatory HOLD POINT	Spray Sheets	QA	
Chip Spread Rate	Visual	Crew Briefing Plan/Visual	On going whilst seal being constructed	Chip is applied in accordance with the appropriate coverage as specified in the Crew Briefing Plan	Witness Point	Data Docket	QA/Foreperson	
Removal of Surplus Chip	Physical / Visual	Front Mounted Broom / Suction Truck, Downer Survey or MS Forms Post Seal Inspection	At conclusion of positive traffication within 48 hours	All sump and road furniture protection removed. Meets requirements of P/17 Table 2.	Witness Point	Post Seal Inspection	Sealing Contract Engineer / QA	
Post Seal Construction								

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<b>Activity Description</b>	Verification Activity	Methods or Reference	Frequency	Acceptance Criteria	Hold / Witness Point	Records	Responsible Person	Completed?	
Chipseal Surfacing									
	verification point beyond which wor til one of these parties is able to ver			Witness Point: An identified point in the process where the design Inspector may review, witness, inspect method or process of wor					
Post Seal Traffic Management	Physical / Visual	As per TMP	Full length and width of carriageway	Minimum of 48 hours under normal traffic flow. If rain forecast within 48 hours, traffication recommences until clear weather window of at least 48 hours	Hold Point	Zeus or suitable recorded weather data	Sealing Contract Manager / Engineer		
Post Seal Inspection	On Site Visual	Lucidity Post Seal Inpsection	After sealing is complete	Engineers requirements. Any defects identified, repairs programmed and costs estimated	Witness Point	Post Seal Inpsection	Sealing Contract Engineer / Manager / QA		
Asbuilts and RAMM data	RAMM Update Sheet	RAMM Database	After sealing is complete	RAMM update sheet 100% complete and accurate, note data provided for RAMM update to be uploaded by others. As Built Drawing Complete.	Witness Point	As built information / RAMM Update Sheet	Sealing Contract Manager/ QA/QE		
Quality Record Close Out:	(digital signature)		Date:		-				
	(name)		-						