

Location:

SURFACING RENEWALS INSPECTION AND TEST PLAN – Thin Asphalt Paving Site Name: Intersection SH1 &96 South Mataura

SH 1S RS 0870 RP 1480 to 1520 / 0872 RP 0 to 30 / SH 96 RS 0

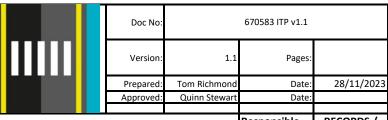
Doc No:		670583 ITP v1.1	
Version:	1.1	Pages:	
Prepared:	Tom Richmond	Date:	28/11/2023
Approved:	Quinn Stewart	Date:	

		Location: RP 0 to 30							Approved:	Quinn Stewart	Date:	
Item Number	ACTIVITY DESC	CRIPTION	VERIFICATION ACTIVITY	METHODS OR REFERENCE	FREQ.	ACCEPTANCE CRITERIA	INSPECTORATE W/H W=WITNESS, H=HOLD			Responsible Person	RECORDS / REMARKS incl NCR ref Sign & date if	
4							Туре	Assessor	Desc	ription		appropriate
1			I		ı	Preliminary and General		T	ı		ı	
1.1	Construction Program	me Completion	Confirmation	Best Practice Contract Specific MMP	commences	Construction Completion will be the lesser of the completion date according to the pavement classification risk profile (documented in the contract specific MMP) or the contract completion date.	w				Renewals Manager	
1.2	Approved l	RQP	Confirmation	Contract Specification	Before work commences	Principal Acceptance according to guidelines in appendix 6.3	н		commenced on s has been sent no of establis	hysical work is to be ite until notification later than 24 hours shing on site. o approve	Renewals Manager	
1.3	Traffic Management	TMP	Visual check	CoPTTM	Before traffic management set up	TMP checked and approved Plans approved Current EED (if applicable)	н		to be set up ur	affic management is atil TMP has been nd approved	Paving Supervisor	
1.4	Mix Design Verification Check Laydown Trials a complian	re complete and	Confirmation	NZTA M/10, P/11, P23	Before planning commences	Mix Design compliant, current and relevant. Batching plant production capability is confirmed	н		works shall comn	planning of on-site nenced until the mix is verified.	Paving Supervisor	
1.5	Notification of intention	on to start work	Notification		Before work commences	Letter drop to local residents. Greater consultation where required	н		commenced on s has been sent no	hysical work is to be ite until notification later than 24 hours shing on site.	Paving Supervisor	
1.6	Works Exte	ents	Confirmation	Site Visit	Before work commences	Renewals Manager and/or Client to agree extents of project	н		Renewals Engine	alk over site with er and/or Renewals and/or NZTA	Paving Supervisor	
1.7	Pavement Markir	ng Records	Measurment Data	Site Measure or Video Viewer	Before work commences	Measure existing markings to aid reinstatement	н		commenced on s	hysical work is to be ite until notification later than 24 hours shing on site.	Paving Supervisor	_



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											appropriate
2					Mill	ling and Preparation					
2.1	Services (includes Traffic Count Loops and Traffic Signal Detector Loops)		Visual plan BeforeUDig Cable locate (electronic or pothole for line & depth)	NZAUAG Guide to Working on the Road	Before work commences	Zero service strikes	н		Hold point - No excavation/milling is to be commenced until services are located and accounted for	Paving Supervisor	
2.2	Stormwater Mai	nagement	Visual check	On Site	Before work commences	Mudtanks bunded or filtered to prevent mix from dropping in or runoff entering	н		Hold point - No work to be commenced until protections in place	Paving Supervisor	
2.3	Traffic Management	Setup	Visual check	Traffic Management Plan	Before work commences each day	Traffic management complies with TMP	н	Hold point - No physical works are to be commenced until necessary traffic management is in place			
2.4	Milling De _l	pths	Measurement	On Site	Measure each side of milling machine cut	Every 10m. Depth matches target	Н	Milling String Sheets or p depths taken and uploaded		Site Foreperson / QA	
2.5	Service Covers Pi	reparation	Visual	On site measurements & photos	All Covers	Hand excavation around ironwork and adjustment to desired level (if required)	н			Site Foreperson	
2.6	Additional Surfacing Prepar - Side Roads - Accesses - Driveways - Dish Channels - High Shoulders	ation	Visual Check	Per Design	Before Membraning and Paving	Have all areas of additional surfacing on the design been prepared, membraned and marked for paving?	Н		Hold Point – All areas planned for AC are prepared ready for surfacing layer	Site Foreperson	
2.7	Milling Surface inspec	ction / walkover	Visual Check, proof roll with loaded truck to check deflections	On site measurements & photos	Prior to surfacing	Renewals Manager and NZTA invited to inspect milled surface and agree if any additional overmilling is required	H Hold point - Inspection and agreement by NZTA		Paving Supervisor / Paving Manager		
2.8	Over-Mill	ling	Measurement	On site measurements & photos	Prior to pre-level	Renewals Manager and NZTA invited to inspect milled surface and agree need and extent of over-milling and infill.	н	н		Paving Supervisor	
2.9	Pre-Leve	el	Measurement	On site measurements & photos	Prior to surfacing	Renewals Manager and NZTA invited to inspect milled surface and agree pre-level extents	н		Hold point - Inspection and agreement by NZTA	Paving Supervisor / Paving Manager	



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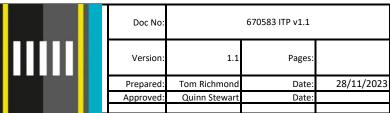
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Relationship	s creating success	Location:	SH 1S RS 08	SH 1S RS 0870 RP 1480 to 1520 / 0872 RP 0 to 30 / SH 96 RS 0 RP 0 to 30							Prepared: Approved:	Tom Richmond Quinn Stewart	Date: Date:	28/11/2023
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							Туре		Assessor	r	Desc	ription		Sign & date if appropriate
3						Paving Structural								
		PSD (Particle Size	aggregates and	ASTM C136-06 / C 117-14		Job Mix Formula and NZTA M/10								
3.1	Production Properties	Binder Content	Quantitiive Extraction of Bitumen from Bituminous Paving Mixtures by Bowl Centrifuge Method	B19 Issue 6 - 2009	1 per 200t or maximum of 3 per production lot	Table 5.3 tolerances		w			int for future p	ts. Becomes a Hold aving if there is non- ormance	Paving Supervisor	
			Gravity & Density of	ASTM D2041/D2041M - 2011		Per Mix design								
3.2	Preparati	on	Visual	NZTA M/10	Prior to Shift	Paving plan to be completed for every shift, with dimensions		W		Р	Ü	Crew Briefing Plan eted prior	Paving Supervisor	
3.3	Joins		Visual	NZTA M/10	Prior to Shift	Joins are outside of trafficked wheel paths where possible.		w					Paving Supervisor	



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						Туре	Assessor	Description		Sign & date if appropriate
3.4	Mix Inconsistency and Deficiency	Visual	NZTA M/10	Continuous	Visually check asphalt surface during paving for areas of segregation	н			Site Foreperson	
3.5	Load Locate	Measurement		Every Load	Each load can be indentified to a location using a diagram. Record includes: - Truck ID/Rego/Driver - Depart Plant Time - Arrive Site Time - AC Temp on Arrival - Ground Temp on Arrival - Tonnage - Run Width - Estimated Run Length - Calculated Area - Calculated Average Depth	W		Per standard practice	Quality Assurance Engineer	
3.6	Laying Temperature	Confirmation	NZTA M/10	Every Load	Arrival temperature 150°C (±10°) checked for every load	Н		· · · · ·	Quality Assurance Engineer	
3.7	Compaction	NDM Testing	NZTA M/10	Minimum: 1 Test per 300m ² within Mat. 1 Test per 100m of joint.	Mat: Air voids JMF +3,-2 Join: Air voids JMF +5,-2	Н		PQI / Core recorded with RP. lane.	Quality Assurance Engineer	



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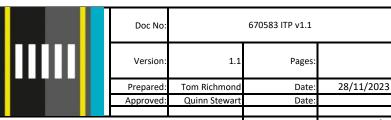
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4						Paving Wearing Course				
		PSD (Particle Size Distribution)	Sieve analysis of fine and coarse aggregates and material finer than 75µm by washing	ASTM C136-06 / C 117-14		Job Mix Formula and NZTA M/10				
4.1	Production Properties	Binder Content	Quantitiive Extraction of Bitumen from Bituminous Paving Mixtures by Bowl Centrifuge Method	B19 Issue 6 - 2009	1 per 200t or maximum of 3 per production lot	Table 5.3 tolerances	W	IANZ Lab Reports. Becomes a Hold Point for future paving if there is non- comformance	Paving Supervisor	
		Maximum Specific Gravity	Gravity & Density of	ASTM D2041/D2041M - 2011		Per Mix design				
4.2	Preparat	ion	Visual	NZTA M/10	Prior to Shift	Paving plan to be completed for every shift, with dimensions	w	Paving Plan and Crew Briefing Plan completed prior	Paving Supervisor	
4.3	Joins		Visual	NZTA M/10	Prior to Shift	Joins are outside of trafficked wheel paths where possible.	w		Paving Supervisor	
4.4	Membrane S	Sealing	Visual	NZTA M/10	Prior to Paving	Membrane seal meets design and extent. Sealing Docket record kept	н	Hold Point - No paving until Membrane Done. Ensure correct application of chip & emulsion	Paving Supervisor	
4.5	Mix Inconsistency a	nd Deficiency	Visual	NZTA M/10	Continuous	Visually check asphalt surface during paving for areas of segregation	н		Site Foreperson	



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4.6	Load Locate	Measurement		Every Load	Each load can be indentified to a location using a diagram. Record includes: - Truck ID/Rego/Driver - Depart Plant Time - Arrive Site Time - AC Temp on Arrival - Ground Temp on Arrival - Tonnage - Run Width - Estimated Run Length - Calculated Area - Calculated Average Depth	W		Per standard practice	Quality Assurance Technician.	
4.7	Laying Temperature	Confirmation	NZTA M/10	Every Load	Based on Mix design	н	Hold point - Reject mix for non- compliant temperatures.			
4.8	Compaction	PQI Non-Nuclear Gauge/Cores. Or Non Distrctive Method Testing.	NZTA M/10	As per Agreed on Contract.	Mat: Air voids JMF +3,-2 Join: Air voids JMF +5,-2	w		PQI / Core recorded with RP, lane, offset, date, air voids. Core results received within 2 weeks.	Quality Assurance Technician / Paving Manager	
4.9	Roughness	Visual	On Site	Post Construction	Agreement with WK as per M10	н	Site walkover with client to determine ability to comply with straight edge measurement outlined in M10		Paving Supervisor	
5					Site Reinstatement / Cleara	ance				
5.1	Shoulder Reinstatement (where no K&C)	Measurement/Visua I	On Site	All low shoulder created by paving edge	Shoulders reinstated to between 1:4 and 1:6	н	Low shoulder created by rural paving is corrected using AP20/40 or DG Mix. Not relevant in kerb and channel scenario. Hold Point - Site TTM/TSL should not be removed until these hazards possible are attended to.		Paving Supervisor	
5.2	Post-seal Area Check	Measurement	On Site tape- measure	After Surfacing	Check sealed area meets design	W Notify Renewals Engineer or Renewals Manager		Paving Supervisor		
5.3	Service Covers	Measurement/Visua I	On Site	After Surfacing	All service covers are checked and adjusted (if necessary) to finished level (+10mm, -0mm)	W			Paving Supervisor	



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		Doc No:		670593 ITD v1 1	

	Sign & date if appropriate
	арргорписс
Paving Supervisor	
Paving Supervisor	
th Asset Information Manager	
Renewals Engineer/ Renewals Manager	
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Quality Assurance Close Out by:		Date:
,	(name)	
	(signature)	

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Relationship	is creating success		SH 1S RS 08	70 RP 1480 to	1520 / 0872	RP 0 to 30 / SH 96 RS 0			Prepared:	Tom Richmond	Date:	28/11/2023
		Location:		RP 0 to 30					Approved:	Quinn Stewart	Date:	
					111 0 10 30							
				METHODS OF				INCRECT	ORATE W/H		Responsible	RECORDS /
Item			VEDICATION					INSPECT			Person	REMARKS
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				NEI ENEIVEE			Type Assessor Description			cription		Sign & date if appropriate

This record to contract file.