				Construction Process:	Start RP				TEST PLAN - VERSION CONTROL	0	1	2	3
	WAKA KOTAHI	Bourson		Dense Graded Base or Wearing Course	Finish RP		Prepared by Project	Engineer:	PE name	dd/mm/yy			
Access	NZ TRANSPORT	<b>Downer</b>		Project Name: T2W - Tirau to Waiouru	. Dahahilisasiaa Waal	_	Reviewed by Constru	iction Manager:	PM name	dd/mm/yy		1	
ilient's Rep.: Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL)  Item Task/Activity/Description  Jo. Pre-Commencement Activities  1.1 Approved JMF for Asphalt Base or Wearing Course  1.2 Site Conditions  1.3 Roughness  1.4 Traffic Loops  1.5 Paving Plan  Ilient Final Inspection - the signature below verifies contractor's Rep Name:			Project Name. 12W - Illau to Walouru	i - Keliabilitation work	•	Reviewed by Surf./ P	avmt Manager:	Surfacing or Pavement Manager	dd/mm/yy		1		
liant's D	ton - Neil Doune / Doone Tonore	Contractor's Rep. : Wayne Bowden (C	(4) / C:4	Specifications			Approved Quality Ma	anager.:	Nominated by Group Quality Manager	dd/mm/yy			
iient s K		Rudani (PM)	vij / Siu	NZTA M10 Specification For Dense Grade	e Asphalt;		Approved Pavement	s SME.:	Responsible Group SME	dd/mm/yy		1	
	(Stellar Projects Etd. (SPL)	Rudalii (FIVI)		NZTA M01-A Specification for PG Asphal	t Binder		Issued by: Project Er	ngineer:	PE name	dd/mm/yy			
				Inspection/Test		Acceptance Criteria	Record documents (QCP - Quality Control Portal	Responsibility	Project Specific Notes / Instructions	R = Respor	Checked sible, A = Approv	by (RACI) ve, C = Consult, I	= Informed
Item Task/Activity/Description	Task/Activity/Description	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production)	Inspection / Test method					Designer	Eng. Rep / NZTA	Contractor	Date
.0. Pre-	Commencement Activities												
1.1		JMF reference in here	н	Before Works commence	Confirm requirements are followed	JMF Validated in accordance with NZTA M/10:2020	Mix Design Report	Paving Contractor	JMF expiry date and validation details in here. And to make sure the mix design is sent to Engineer's Representative for approval prior to paving on site.	А	A	R	
1.2	Site Conditions	Weather suitable, Site extents marked, surface suitable for paving (Depths/milling/cleanup complete etc), Environmental Controls in place	Н	Before Works commence	Confirm requirements are followed	Weather conditions and Site is suitable for paving	Site Diary	Paving Contractor			1	R	
1.3	Roughness	Previous layer checked for suitability to achieve Specified Ride	Н	Before Works commence	Confirm Specified Ride requirements can be met	Site is suitable for paving; The surface to be paved on must have a smooth longitudinal profile, and where a layer of Asphalt is to be placed over a previously constructed pavement layer, the ride quality must be confirmed with the observation of a holdpoint in the previous layer ITP.	NASSRA Report	Paving Contractor	Where FBS & Chipseal has been previously constructed ensure NASSRA is viewed and signed off as acceptable for paving		-	R	
	·	Communication with affected parties	Н	Minimum of 7 days Before Works commence	Visual	programmed	Communication	Paving Contractor	only required where existing traffic loops are present		A	R	
1.5	Paving Plan	Paving Plan to be completed	Н	Before Works commence	NZTA M10: 2020 Clause 9.5.1	Paving Plan to be completed for each shift with dimensions, location and type of (hot/cold) joints, areas and tonneages	String Sheet	Paving Contractor			1	R	
lient Fin	al Inspection - the signature below verifies	that this ITP has been completed in accorda	nce with th	e Specifications and verifies lot compliance	е.		Н	Hold Point	Work Shall not proceed past the HP until r	eleased			
ontracto	or's Rep Name:		Signature:		-	Date:	W	Witness Point	An Inspection which must be witnessed by the Eng. Rep.				
ngineer'	's Rep. Name:		Signature:		-	Date:	М	Monitor Point	Intermittent monitoring of any stage of th	e work in progres	s by the Eng. Rep.		

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-	WAKA KOTAHI				Construction Process: Start RP				D TEST PLAN - VERSION CONTROL	0	1	2	3
	WAKA KOTAHI	DOWINGK		Dense Graded Base or Wearing Course Finish RP		Prepared by Project Engineer:		PE name	dd/mm/yy				
NZ TRANSPORT AGENCY  Client's Rep.: Neil Payne / Deena Tapara		<b>Bewlier</b>		Project Name: T2W - Tirau to Waiouru - Rehabilitation Works			Reviewed by Construction Manager: Reviewed by Surf./ Pavmt Manager:		PM name	dd/mm/yy			
				Specifications					Surfacing or Pavement Manager	dd/mm/yy			
Client's F	Rep. : Neil Payne / Deena Tapara	Contractor's Rep. : Wayne Bowden (	CM) / Sid				Approved Quality M		Nominated by Group Quality Manager	dd/mm/yy			
(Stellar Projects Ltd. (SPL)		Rudani (PM)		NZTA M10 Specification For Dense Grade			Approved Pavement		Responsible Group SME	dd/mm/yy			
				NZTA M01-A Specification for PG Asphalt Binder			Issued by: Project E	ngineer:	PE name	dd/mm/yy			l.
				Inspection/Test		Record documents			R = Respor		l by (RACI) ove, C = Consult, I	= Informed	
Item	Task/Activity/Description	Contractor's Rep.: Wayne Bowde Rudani (PM)  Wity/Description  Detail of Activity / Test  Mixing of aggregates and bitumen  Particle Size Distribution  t  Binder Content  Max. Specific Gravity (MSG) of mix  Air Voids at lab design compaction	Action (Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production)	Inspection / Test method	Acceptance Criteria	(QCP - Quality Control Portal	Responsibility	Project Specific Notes / Instructions	Designer	Eng. Rep / NZTA	Contractor	Date
2.0. MA	NUFACTURE OF ASPHALT			•									
2.1	Temperatures	Mixing of aggregates and bitumen	М	Constant monitoring of temperature by calibrated euipment	Plant temperature probes	PG64H binder Mixing range 160 - 170°C PG64 V/E (Flexiplus Bind) binder mixing range: 170 to 190 deg.C NZTA M10: 2020 states max. 185 deg.C	Plant site diary	Asphalt Manufacturer		1	ı	R	
2.2		Particle Size Distribution	М	1 per 200t at asphalt plant	NZS 4407 Test 3.8.1	NZTA M10: 2020 Refer to Table 5.3	IANZ accredited test cert	Asphalt Manufacturer		ı	ı	R	
2.3		Binder Content	М	1 per 200t at asphalt plant		NZTA M10: 2020 Individual Test Result: ± 0.5 Mean of Three Test Results: ± 0.3	IANZ accredited test cert	Asphalt Manufacturer		1	ı	R	
2.4		Max. Specific Gravity (MSG) of mix	М	1 per 600t at asphalt plant		Report	IANZ accredited test cert	Asphalt Manufacturer		1	ı	R	
2.5		Air Voids at lab design compaction	М	1 per 600t at asphalt plant		NZTA M10: 2020: Individual Test Results: +2.0, -1.0 Mean of Three Test Results: +1.2, -0.6	IANZ accredited test cert	Asphalt Manufacturer		ı	I	R	
3.0. PLA	CING AND FINISHING												
3.1	Milling	Surface strung to ensure milling Depth is achieved	М	Before Asphalt placement commences	Confirm requirements are followed	Site is suitable for paving	String Sheet	Paving Contractor			ı	R	
3.2	Tack Coat, OR	Application of Tack Coat	М	Per Lot	Dip bitumen emulsion tank before and after	Target Between 0.2l/m2 - 0.6l/m2 +/- 0.1l/m2 From Target Application Rate	Site Diary	Paving Contractor		1	ı	R	
3.3	Membrane Seal	Application of Membrane Seal	М	Per Lot	Sealing Records	Application rate, chip type and binder as per membrane seal design	Sealing Records	Paving Contractor		1	ı	R	
3.4		Pavement Surface	М	Start of shift and every 1 hour until temperature rising	Infrared gauge	≥ 10 °C for Wearing Course, ≥ 5°C for Structural, or as otherwise agreed with NZTA	Site diary	Paving Contractor	Must get NZTA approval if < 10°C for Wearing Course, or < 5°C for Structural	1	ı	R	
3.5	Temperature	Asphalt Delivery temperature	М	Every Load on delivery to the Paver Hopper	Temperature Probe	Target ≥ 150 deg.C. in the Paver Min. ≥ 130 deg.C in the Paver <130°C to be Rejected	Site Diary	Paving Contractor		ı	ľ	R	
3.6		Compaction Temperature	М	During compaction	Temperature Probe/Infrared gauge	≥ 125°C at commencement of compaction. < 80°C - Stop Rolling	Site diary	Paving Contractor		1	I	R	
3.7		Load Locate	М	Each load	M/10	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 - Tonnage - Run Width - Estimated Run Length - Calculated Averae Deoth	Paving Run Sheet	Paving Contractor		1	ı	R	

- 100				Construction Process: Start RP			INSPECTION AND TEST PLAN - VERSION CONTROL			0	3		
	WAKA KOTAHI			Dense Graded Base or Wearing Course	Finish RP		Prepared by Project		PE name	dd/mm/yy			
-	NZ TRANSPORT	<b>Dewner</b>		Project Name: <b>T2W - Tirau to Waiouru</b>	- Pohabilitation Work		Reviewed by Constru	ction Manager:	PM name	dd/mm/yy			
	AGENCY			Project Name. 1200 - Illau to vvalouru	- Kellabilitation work	13	Reviewed by Surf./ P		Surfacing or Pavement Manager	dd/mm/yy			
Client's Re	p. : Neil Payne / Deena Tapara	Contractor's Rep. : Wayne Bowden (C	CM) / Sid	Specifications			Approved Quality Ma		Nominated by Group Quality Manager	dd/mm/yy			
		Rudani (PM)	,,	NZTA M10 Specification For Dense Grade	Asphalt;		Approved Pavements		Responsible Group SME	dd/mm/yy			
	(Stenar Frojects Etar (St. 2)	nadam (i m)		NZTA M01-A Specification for PG Asphalt	Binder		Issued by: Project Er	gineer:	PE name	dd/mm/yy			
Client's Rep.: Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL)  Item Task/Activity/Description  3.8  3.9  Mat  3.11  3.12		1	Inspection/Test			Record documents			R = Respoi			Informed	
3.8 3.9 3.10	Task/Activity/Description		Action			Acceptance Criteria	(QCP - Quality	Responsibility	Project Specific Notes / Instructions	_	1	or .	
item	rask/Activity/Description	Detail of Activity / Test	(Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production)	Inspection / Test method	Acceptance Cinema	Control Portal	Responsibility	rioject specific Notes / mail actions	Designe	/mm/yy /m		
3.8		Thickness Monitoring	М	Continuously	Dipping	Target Loose Thickness -0mm / +10mm		Paving Contractor		1	1	R	
3.9		Compaction - NDM	М	Plateau to be completed on 1st run, thereafter monitor compaction/roller passes to achieve target density.	Insitu density and air voids	NZTA M/10: 2020 - section 9.9		Paving Contractor	Use a calibrated NDM with established core correlation. Locate and mark cores, record NDM Bulk density by core location (including any offset used).	-	-	R	
3.10	Mat	Compaction	н	Mat: 1 per 300m2/min. 8 per Lot Joint: 1 per 100m/min. 3 per Lot, In the event of a day's production being > 30t but < 2400m2, then it will be permissable to reduce the number of cores to; Mat: 1 per 300m2 with a minimum of 4 per Lot, and Joint: 1/100m with a minimum of 3 per Lot	Insitu density and air voids	NZTA M/10: 2020 - section 9.9	IANZ accredited test cert.	Paving Contractor	A pavement lot shall be an essentially homogeneous section of work completed within a shift of production. The lot shall be divided into an appropriate number of approximately equal sub-lots and a core shall be taken randomly within each sub-lot. The Engineer or their delegate shall use a random method for locating each core position, such as ASTM D5361 or a similar process.	A	-	R	
3.11		Thickness	Н	Average of 4 measurements per core	Measure Cores	Average Thickness > Specified Depth (Nominal) NZTA M/10: 2020 - section 9.7	IANZ accredited test cert.	Paving Contractor		A	-	R	
3.12		Shape	М	Continuously	3m Straight edge	Where the length of the site or the geometry is such that a road roughness-measuring vehicle cannot be used then the straight edge can be used for checking the surface shape. Refer NZTA M/10: 2020 - section 9.8. Not more than 5mm under a 3m Straight Edge.	Straight Edge Record	Paving Contractor		-	-	R	
3.13		Texture	М	Per Site (If Required)	Sand Circle or HSD	NZTA T/10: 2013	IANZ accredited test cert.	Paving Contractor		1	1	R	
3.14	Paving Quality	Level	М	Per Site (If Required)	As Built Survey	-0 < +5mm from Specified Level Where there is Kerb and Channel shall be flush with or no more than 5mm above the LOC. NZTA M/10: 2020 - section 10.2	Survey As builts	Paving Contractor		1	1	R	
3.15		Alignment	М	Per Site (If Required)	As Built Survey	±50 mm from drawings	Survey As builts	Paving Contractor		1	1	R	
3.16		Site clear and cleanup	w	Each Site/Shift	Visual	Site is cleared of plant (or parked in safe location) cleanup of all waste mix, paper and detritus is complete		Paving Contractor			•		
3.17		Pavement Marking	W	Each Site/Shift	Visual	Roadmarking is complete		Paving Contractor			1		
3.18	Post Paving Completion Checks	Cold Joint Bandaging	W	Each Site/Shift	Visual	Cold joint bandaging is complete	Site Diary	Paving Contractor			l l	R	
3.19		Service Covers Checked	w	Each Site/Shift	Visual	Check that service covers are cleared and level with the pavement	Site Diary	Paving Contractor			1	R	$\neg$
3.20		Traffic Loops Reinstated	w	Each Site/Shift	Visual	Check that affected traffic loops have been reinstated	Communication	Paving Contractor			ı	R	
Client Fina	Client Final Inspection - the signature below verifies that this ITP has been completed in accordance with the Specifications and verifies lot compliance.								Work Shall not proceed past the HP until r	released			Ī
Contractor	r's Rep Name:		Signature:			Date:	by the Eng. Rep.  W Witness Point An Inspection which must be witnessed						
	Rep. Name:		Signature:			Date:	М	Monitor Point	by the Eng. Rep. Intermittent monitoring of any stage of th	e work in progres	s by the Eng. Rep.		
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∧ WAKA KOTAHI				Construction Process: Start RP				INSPECTION AN	D TEST PLAN - VERSION CONTROL	0	1	2	3
	WAKA KOTAHI	Downer		Dense Graded Base or Wearing Course	Finish RP		Prepared by Project	Engineer:	PE name	dd/mm/yy			Ī
A	NZ TRANSPORT AGENCY	DOMILEL		Project Name: T2W - Tirau to Waiouru - Rehabilitation Works		1.	Reviewed by Construction Manage		PM name	dd/mm/yy			
	AGENCY			Project Name: 12w - Ilrau to walouru	- Kenabilitation Worl	KS	Reviewed by Surf./ Paymt Manager:		Surfacing or Pavement Manager	dd/mm/yy			
liant's D	an . Neil Davine / Daona Tanara	Contractor's Rep. : Wayne Bowden	(CNA) / C:-J	Specifications				anager.:	Nominated by Group Quality Manager	dd/mm/yy			
Client's Rep. : Neil Payne / Deena Tapara (Stellar Projects Ltd. (SPL)		Rudani (PM)	(CIVI) / SIG	NZTA M10 Specification For Dense Grade Asphalt;			Approved Pavements SME.:		Responsible Group SME	dd/mm/yy			
		Rudalii (FWI)		NZTA M01-A Specification for PG Asphalt Binder			Issued by: Project Engineer:		PE name	dd/mm/yy			
			1	nspection/Test		Record documents			R = Respon		i by (RACI) ove, C = Consult, I	= Informed	
Item	Task/Activity/Description	Detail of Activity / Test	Action (Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production)	Inspection / Test method	Acceptance Criteria	(QCP - Quality Control Portal	Responsibility	Project Specific Notes / Instructions	Designer	Eng. Rep / NZTA	Contractor	Date
.0. As B	uilt Records												
4.1	Assessment of all test results for conformity	Review against ITP Requirements	н	For each site on the project	Review	Reporting of any non-conforming results to Engineer via NCR	NCR	Paving Contractor		1	А	R	
4.2	RAMM pavement and surface records	RAMM surfacing pavement data spreadsheet updated	w	For each site on the project	Prepare Data	Over milled and Deep lift extents recorded and verified by Contract Engineer / OA Spray sheets for membrane area received by Contract Engineer from Sealing Team. Surfacing layer extents recorded and verified by Contract Engineer.	RAMM Spreadsheet	Paving Contractor		1	A	R	
4.3	Paving Quality	Ride Quality - Wearing Course only	w	Continuous every lane	NAASRA	Max 100m Rolling Average 60 Counts/km Max 20m NASSRA 70 Counts/km Refer TNZ TM 7003 v1 (2006)	IANZ accredited test cert.	Paving Contractor	For structural mixes, refer clause 1.7 of this ITP - Hold Point must be observed on this layer before proceeding to a final Surfacing Layer	А	ı	R	
liont Fin	al Inspection - the signature below verifies	that this ITD has been completed in accoun	rdanaaith th	o Considerations and varifies let compliance				Hold Point	Work Shall not proceed past the HP until r	alaasad			
ment rin	ai inspection - the signature below verifies	mat mis me has been completed in accor	uance with th	e specifications and verifies for compliance	:.			HOID POINT	by the Eng. Rep.	cicaseu			
ontracto	or's Rep Name:		Signature:			Date:	w	Witness Point	An Inspection which must be witnessed				
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	s Rep. Name:		Signature:			Date:	М	Monitor Point	Intermittent monitoring of any stage of the				