

Client	Transport for New South Wales		Work Area:					
Contract No.#		INSPECTION AND TEST PLAN FOR:						
Contract		R116 Heavy Duty Dense Graded Asphalt	Inspection and Test Plan Number / Lot No:					
Workplace Name	A183 - New Dubbo Bridge		ITC-16 R116 Heavy Duty Dense Graded Asphalt					

Legend:			S = Surveillance	ACPL = Abergeldie					S/C = Subcontractor	
		Document				Frequency/		Inspection	n – Sign & D	Date
No.# Description App		Reference / Applicable Standard	Acceptance Criteria				S/C	ACPL	Client	Date Verifying Records
1. M	laterial Requirements									
1.1	Production Trial	R116 CI 2.3.2	conformity of the nominated m	As part of your nominated mix design submission process, conduct a production trial to demonstrate conformity of the nominated mix.  All production trial tests on each nominated mix must be from one trial batch. The tests on the constituent materials must represent the materials used in this trial batch.					S	Conformity Statement
1.2	Nominated Mix Designs	R116 CI 2.3.5	Submit to the principal docum Details) at least 7 working day	3.3 (Nominated Mix Design Submission es are proposed to be placed.	Once / Prior to placement		Н	Н	Mix Design Submission	
2. P	lacing Asphalt									
2.1	General Placement	R116 CI 3.1	asphalt paving.  Prepare the surface to be pav	Provide for traffic in accordance with the requirements of Specification TfNSW G10 when carrying out asphalt paving.  Prepare the surface to be paved in accordance with AS 2150, including removal of raised extruded thermoplastic road markings and raised pavement markers.					S	Visual Inspection
2.2	Application of Tackcoat	R116 CI 3.2	Apply the tackcoat evenly at a metre, ensuring that it is effect application rate.  Nominate in writing to the printackcoat.  Provide to the Principal a sign Lot.  Report the tackcoat application	pply the tackcoat evenly at a rate of between 0.15 and 0.30 litres of residual bitumen per square netre, ensuring that it is effectively bonded to the surface. For joints and chases, double the pplication rate.  Iominate in writing to the principal your proposed tackcoat application rate prior to applying the ackcoat.  Irovide to the Principal a signed daily record of the average tackcoat application rate applied to each					S	Application Rate Statement Daily Records

Page 1 of 6



Legend:	W:	= Witness	H = Hold	S = Surveillan	ice	ACPL = Abergeldie				S/C = Subcontractor		
		Document							Inspection	Date		
Activity No.#	Description	Reference / Applicable Standard		Acceptance Criteria					ACPL	Client	Date	Verifying Records
2.3	Temperature and Weather Conditions for Asphalt Placement	R116 CI 3.3	asphalt placing.  Do not commence or of temperature of the surful where the nominal size asphalt is 20 mm or graph or graph of these minimum temperature. These minimum temperature, however the minimum temperature, however the minimum temperature.	Do not commence or continue placing asphalt containing binder complying with TfNSW 3253 if the temperature of the surface to be paved over, measured at existing surface level, is less than 8°C where the nominal size of asphalt is less than 20 mm, or less than 5°C where the nominal size of asphalt is 20 mm or greater, for a zero-wind speed.  These minimum temperatures are increased by 5°C for asphalt containing binder complying with TfNSW 3252.  These minimum temperatures are increased by a further 5°C for each 5 kph of wind speed above zero; however the minimum temperatures must not exceed 30°C.  Do not place tackcoat and/or asphalt when the surface is wet, and/or when wet weather appears					S	S		Visual Inspection
2.4	Paving and Compaction Temperatures	R116 CI 3.5	(a) minimum temperat	ure at which asphalt will ure at which initial comp	be delivered	•	Once / Prior to commencement of paving		н	Н		Paving Temperatures Report
2.5	Course and Layer Thickness	R116 CI 3.6	requirements specified Where a course comp the Drawings, nominate th	d in Clause 5.6. rises more than one laye	er, and the la	els during placing and the surface shape  ayer thicknesses have not been specified on  OJECT QUALITY PLAN.  ween 3.0 to 5.0 times the nominal mix size.	Once / Prior to commencement of Paving		s	s		Project Quality Plan

Page 2 of 6



Legend:	W =	= Witness	H = Hold	S = Surveillance	ACPL = Abergeldie						S/C = Subcontractor
	Docume		Document					Inspection			
Activity No.#	Description	Reference / Applicable Standard		Acceptance Criter	ia	Frequency/ Process Held	S/C	ACPL	Client	Date	Verifying Records
2.6	Nonconforming Layer Thicknesses	R116 CI 3.6.3	Principal to place layers in thic Prior to placing asphalt in layer principal the following:  (a) nominated layer thickness (b) work methods capable of pathicknesses;	ninated layer thicknesses which does not conform to specified thicknesses; rk methods capable of producing a dense homogeneous layer at these esses; as affected, and evidence that these areas are the absolute minimum				Н	Н		Non-Conformance Report
2.7	Joints	R116 CI 3.7	(b) located within 150 mm of to (c) coincident with final traffic.  Transverse joints must be: (i) located at a minimum of 25 (ii) offset by a minimum of 1 m (iii) formed at the commencem (iv) formed when a delay in patemperature nominated in Cla	offset by 150 mm from the joint in the underlying layers; ocated within 150 mm of the line of change in crossfall; coincident with final traffic markings, unless otherwise approved by the Principal.				S	S		Project Quality Plan

Page 3 of 6



Legend:	W	= Witness	H = Hold S =	Surveillance ACPL = Abergeldie						S/C = Subcontractor
Activity No.#	Description	Document Reference / Applicable Standard		Acceptance Criteria	Frequency/ Process Held	S/C	nspection ACPL	n – Sign & [ Client	Date Date	Verifying Records
2.8	Trial Section	R116 CI 3.8	personnel proposed for the work for  Each trial section must be located re  Demonstrate conformity with the Sp (a) homogeneity; (b) insitu air voids; (c) course thickness; (d) course position; (e) surface shape; (f) joint quality, widths and layout; (g) ride quality, where specified.  Submit to the principal details of:  Verification checklist and all relevant	emote from the Works, unless otherwise approved by	Once / at least 3 working days prior to Commencement of paving at locations other than trial section		Н	Н		Verification Checklist
3. 3	ampling and Testing									
				aced asphalt must be in accordance with Annexure R	116/L.					
3.1	Frequency of sampling and	R116 CI	Quantity of Asphalt Suppli in Each Shift (1)	Minimum Frequency of Testing	Once / At least 14 working days		н	н		Test Reports
•	Testing	4.1.1	Less than 100 tonnes	One per 50 tonnes or part thereof	prior to each placement		••			. 551 . (0)5110
			101 to 300 tonnes	One per 100 tonnes or part thereof	,,					
			301 to 600 tonnes	One per 150 tonnes or part thereof						
			Over 600 tonnes	One per 200 tonnes or part thereof						

Page 4 of 6



Legend:	W = Witness		H = Hold	S = Surveillance	ACPL = Abergeldie						S/C = Subcontractor	
Activity No.#	Description	Document Reference / Applicable		Acceptance Criter	ia	Frequency/ Process Held	S/C	Inspection ACPL	n – Sign & [ Client	Date Date	Verifying Records	
3.2	Determination of Bulk Density	R116 CI 4.2.2	Do not test asphalt layers less that Calculate the characteristic values Determine Bulk Density by either of Cores  Take cores in accordance with AS When trimming, do not reduce the Determine the bulk density of core  Nuclear density gauge  Take measurements in accordance Determine the bulk density of core 2891.9.2.  Determine the density offset separate Verify that the applied density offs as underlying surface roughness, Report the density offset on all test	Once / Prior to Lot Closure		S	S		Test Results			
3.3	Determination of Course Thickness	R116 CI 4.3	as specified in TfNSW Q from core those taken for determination of air prior to trimming of the core.  Where the asphalt is placed in one by adding the average thickness fill. For the purpose of determining the mm and the test specimen may conclude the maximum and minimal Annexure R116/K2.  By Survey:  Carry out surveys for product confilm average compacted course the	Determine the characteristic values and average value of thickness of the Lot using statistical techniques as specified in TfNSW Q from cores taken in accordance with AS 2891.1.2. The cores may be the same as hose taken for determination of air voids (refer Clause 4.2), but the core layer thickness is determined prior to trimming of the core.  Where the asphalt is placed in one or more layers to form a single course, determine the course thickness by adding the average thickness from cores of the lower and upper layers.  For the purpose of determining the course thickness from cores, the core diameter can be less than 95 mm and the test specimen may comprise more than one layer.  Calculate the maximum and minimum characteristic values of thickness for the Lot in accordance with Annexure R116/K2.					S		Test Results	

Issue Date: Aug/2016



Legend:	W	/ = Witness	H	H = Hold	S = Surveillance	ACPL = A	Abergeldie				S/C = Subcontractor			
		Document	'			'				Inspection – Sign & Date				
Activity No.#	Description	Reference / Applicable Standard			Acceptance Criteria	a			Frequency/ Process Held	S/C	ACPL	Client	Date	Date Verifying Records
3.4	Determination of Course Position	R116 CI 4.4	existing   Where file accordant	e finished surface levels are not specified, determine the course position of each Lot by reference to ng pavement surface and road fixtures.  e finished surface levels are specified, measure the course position of each Lot by survey in dance with TfNSW Q and TfNSW G71 Clause 5.3.3.  survey location of any point on the surface of a course for level determination must be located within from the corresponding point determined from the Drawings.							S	S		Survey Report
3.5	Determination of Surface Shape	R116 CI 4.5	The max longitudi	etermine and report the surface shape in accordance with Test Method TfNSW T183.  the maximum Lot size must be in accordance with TfNSW Q but extended to include the adjacent ingitudinal joints, transverse joints and tie-ins.  rior to placing the next overlying course, determine the surface shape in accordance with Clause 4.5.1.  eal with any conformities in accordance with Clause 5.8.1.							S	S		Shape Report
3.6	Determination of Ride Quality	R116 CI 4.6	See sub	ocontractor ITP					Once / Prior to lot Closure		S	S		ITP
4. C	onformity													
4.1	Rectification of Non-Conforming Lots	R116 CI 5.8.5		to the principle the non-con undertaking rectification wo	ot Once / Prior to lot Closure		Н	Н		NCR				
	Y PROJECT MANA													
	onformances?		NO	Nos:		Closed	Out	YES	□NO					
Name	s been satisfactorily	completed.		] YES	Signature		Date							

Page 6 of 6