
		Inspection and Test Plan - Unbound Pavements						Document # 1145-C200-FUL-QAC-ITP-0009					
								Revision : 01		Date : 24/03/2023			
Client: MRPV		Construction Process: Unbound Pavements Project Specification 1200 and 3040 Project General Specification 1125				Prepared by:		Reviewed by:		Approved by :			
Project: Craigieburn Road Upgrade		Specifications: VicRoads Specifications Section 173 (Oct 2008), 204 (Dec 2015), 304 (Aug 2013), 812 (July 2016)				Name: Khulood Hwayyis		Name: Karim Hussein		Name: Babak Rudd			
Contract No: 1145		Structure / Component:				Position: Cadet Engineer		Position: Senior Project Engineer		Position: Quality Manager			
		Location:				Date : 06/12/2021		Date : 06/12/2021		Date : 06/12/2021			
Lot No: ITP-009-AX-LOT-XXX Lot Title: ITP-009-AX-LOT-XXX - Desc Location: From to Lot Size/ Quantity: Lot Opened Date:													
Item No.	Task/Activity Description	Inspection / Controls and Verification Detail						HP/ WP/ AP/ IP/ TP/ SCP	Responsibility Project Engineer Site Engineer Superintendent Surveyor Foreman	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity	Superintendent			Fulton Hogan	FH's Sub-contractor	Date	
1	Preliminary Works												
1.1	Induction	Prior to Commencing	All personnel on site have been inducted to the CRU site	PMP Inductions Register	Document review	Site induction signed.	AP	Site Engineer / Site Foreman	N/A		N/A		
1.2	Check that current revision drawings are being used	Prior to Commencing	Issued For Construction (IFC) and latest available revision used	Project Drawings / Drawing Register	Document review	Latest Revision Drawings	AP	Site Engineer / Site Foreman	N/A		N/A		
1.3	Confirm understanding of current Environment Management Plan (EMP) related to the work area and that all prescribed environmental controls are in place	Prior to Commencing	All environmental measures to be implemented as per current EMP and local authorities. Sediment control measures to be installed and protected vegetation to be clearly identified	EMP, Site induction, Project Specification Cl. 1200.03	Document review & Site inspection	Signed ITP	IP	Site Engineer	N/A		N/A		
1.4	Safety measures are in place, Safe Work Method Statement (SWMS) undertaken	Prior to commencing	As per Fulton Hogan Safety Strategy. All personnel on site to have signed onto relevant SWMS before commencing work.	Project General Specsefication Cl.1125.07 Health and Safety Coordination Plan	Document Review	SWMS(s) signed	HP*	Site Engineer	N/A				
1.5	Crushed Rock Mix design	Prior to Commencing Work	Crushed rock mixes proposed for use on specified works shall be registered in accordance with VicRoads Code of Practice for Registration of Crushed Rock Mix Designs as listed in Section 175.	VicRoads Specification Cl.812.04	Document Review	Mix Design VicRoads Approval	HP	Superintendent			N/A		
1.6	Excavation Permit issued	Prior to Commencing Work	Current Excavation Permit signed and specific for the area where works will be executed.	Excavation Permit	Document review & Site inspection	Excavation Permit #	HP*	Site Engineer	N/A		N/A		
1.7	Traffic Management (When required)	Prior to Commencing Work	Approved TMP and MOA	TMP	Document review & Site inspection	Approved TMP & MOA	AP	Site Engineer	N/A		N/A		

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Contract No: <u>1145</u>	Structure / Component: Location:	Position: Cadet Engineer Date : 06/12/2021	Position: Senior Project Engineer Date : 06/12/2021	Position: Quality Manager Date : 06/12/2021

Lot No: ITP-009-AX-LOT-XXX	Lot Title: ITP-009-AX-LOT-XXX - Desc	Location: From to	Lot Size/ Quantity:	Lot Opened Date:
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2	Placing Fill											
2.1	Transverse Joints	Check prior to placing material	* Material should be spread to minimize number of joints. * Transverse joints shall be offset from one layer to next by not less than 2 metres * Transverse joints shall be offset from one layer to the next by not less than 2 m.	VicRoads Specification Cl.304.07 (a, b & c)	Site Inspection	Signed ITP	IP	Site Engineer	N/A		N/A	
2.2	Longitudinal Joints	Check prior to placing material	* Material should be spread to minimize number of joints. * longitudinal joints shall be offset from one layer to the next by not less than 150 mm. * longitudinal joints shall be located within 300 mm of the planned position of traffic lanes lines or within 300 mm of the centre of a traffic lane.	VicRoads Specification Cl.304.07 (a, d & e)	Site Inspection	Signed ITP	IP	Site Engineer	N/A		N/A	
2.3	Lot Size	Check prior to placing material	A single lot shall be considered a single layer of 4000m2 or one day's production in a single layer, whichever is lesser. For pavement construction, any lot that has a surface area less than 500 m2 may be treated as a small area and tested in accordance with Section 173.	VicRoads Specification Cl.304.08 (b)(ii & iv) Table 304.111	Site Inspection	Signed ITP	IP	Site Engineer	N/A		N/A	
2.4	Proof Roll	After placing material	Pavement lots should be subject to proof roll as outlined in VicRoads Section 173, under supervision of Superintendent	VicRoads Specification Cl.304.08(b)(iv) Cl. 173	Site Inspection	Signed ITP	HP	Site Engineer & Superintendent			N/A	
3	Testing and Inspection											
3.1	Determine Testing Scale & Initial testing frequency	Prior to Testing	Table 204.161 from VicRoads Standard nominates the level of testing required for acceptance of Surface Level Measurement. Scale A - Initially test every lot until 3 consecutive lots of like material and/or work have achieved the standards specified in Clauses 304.08. and 304.10. If no failures, Reduced Frequency applies as specified in Table 304.111.	VicRoads Specification Table 204.161 VicRoads Specification Cl.304.08 (a) Cl.304.11 (b) Cl.304.11 (c)(i) Table 304.111	Document Review/ Site Inspection	Signed ITP	IP	Site Engineer	N/A		N/A	

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Contract No: <u>1145</u>	Structure / Component: Location:	Position: Cadet Engineer Date : 06/12/2021	Position: Senior Project Engineer Date : 06/12/2021	Position: Quality Manager Date : 06/12/2021

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			Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			Superintendent	Fulton Hogan	FH's Sub-contractor	Date
3.2	Modified Compactive Effort	As per 3.1	Characteristic Value of Density Ratio for Subbase:- > 98.0% for Scale A and >97.0% for Scale B. For work to be tested for compliance with Scale A or Scale B requirements, the number of tests per lot shall be six.	VicRoads Specification Cl. 304.08 (b) (iii) Table 304.081	Site Inspection	Test Records	TP	Site Engineer	N/A		N/A	
3.3	Permeability Testing	As per 3.1	Class 4 Crushed rock max 5x10 [^] -9 m/sec. Class 3 Crushed rock max 5x10 [^] -7 m/sec Where the Class 4 material is used as a levelling layer in a deep strength asphalt pavement, the Superintendent grants dispensation from 5x10-9 m/s Max permeability requirement in clause 3040.05(a) and table 3040.051	Project Specification Cl.3040.05(a) Table 3040.051	Site Inspection	Test Records from Supplier	TP	Site Engineer	N/A		N/A	
3.4	Post-compaction Plasticity Index	After compaction	Post- compaction Plasticity Index must comply with the requirement of table 3040.053. Calss 3: 0 < PI < 10.	Specification Cl.3040.05(a) Table 3040.053	Site Inspection	Test Records from Supplier	TP	Site Engineer	N/A		N/A	
3.5	Post- compaction Grading	After compaction	The post compaction grading shall comply with the requirements of table 304.101	VicRoads Specification Cl. 304.10 Table 304.101	Site Inspection	Test Records from Supplier	TP	Site Engineer	N/A		N/A	
3.6	Test Requisition											
3.7	Survey Level	At completion	Scale A: - Minimum number of measurements per lot: 80 For Upper - Upper Subbase: Mean + 4mm to - 8mm with a maximum Standard Deviation of 8mm - Lower Subbase: Mean +6mm to -10mm with a maximum Standard Deviation of 10mm. - Base: Mean ± 5 with a maximum Standard Deviation of 8mm.	VicRoads Specification Table 304.061 Table 304.062	Site Inspection	Test Records	TP	Site Engineer	N/A		N/A	


Notes

Final Inspection
 The signature below verifies that this ITP has been completed in accordance with the FH's Quality system Procedures and verifies lot compliance with specifications.

 Print Name: _____ Position: _____ Signature: _____ Date: / /

 Work Completed On: _____

Legend			
HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	
HP*	FH Hold Point	Work shall not proceed past the HP* until released by FH	
IP	Inspection point	Formal Inspection to be done and recorded	
TP	Test Point	Product compliance test to be undertaken and recorded/reported	

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AP	Approval Point Written or verbal approval given by the Superintendent						SCP	Survey conformance point	A qualified surveyor to check product/section/structure and report		
							WP	Witness Point	An inspection which must be witnessed by the Superintendent		