

	<b>Inspection and Test Plan – Control and Supervision of the Works</b>	<b>Doc ID:</b> FH-DP1-PM-ITP002B <b>Rev:</b> 00
<b>Principal's:</b> Melbourne Airport (APAM)	<b>Contract No:</b> CP1002	<b>Prepared By:</b> John Kakoliris
<b>Project:</b> MAPMP 2.0 – DP1 – Minor Asphalt Works	<b>Reviewed By:</b> Jordan Nicolaou	<b>Date:</b> 21/04/2023
<b>Construction Process:</b> Crushed Rock Basecourse	<b>Approved By:</b> Kevin Gatt	<b>Date:</b> 21/04/2023
<b>Specifications:</b> Technical Specification – MAPMP 2.0 – DP1   No. 60692389-PS-01-AV-0001   Revision 1 – 27 March 2023		
<b>Structure / Component:</b>		

Lot No:	Lot Details:	Lot size/Quantity:	Date:
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Item No.	Task/Activity Description	Inspection/Test					HP/ WP/ AP/IP/ TP/ SCP	Responsibility Project Engineer Superintendent Surveyor Foreman	Checked by:		
		Frequency	Acceptance Criteria	Reference Documents	Inspection/ Test Method	Record of conformity			AECOM / DCWC	FH	Date
1.0	Preliminary Activities										
1.1	The current revision drawings are being used including subcontractors copy.	Prior to works	Current revision drawing is being used including the subcontractors copy. Current Revision to be obtained via Principal's Representative	ACONEX	Visual Inspection	Current drawings	HP*	Project Engineer			
1.2	Material Submission & Approval	Prior to commencing works	At least seven (7) working days prior to the delivery of the Class 1 Crushed Rock the Contractor is to provide the following for review and approval; <ul style="list-style-type: none"><li>Grading Curve</li><li>Atterbergs Limits</li><li>CBR</li><li>MDD</li></ul> Once approval has been received the Contractor is to obtain one reference sample weighing 50kg and which is to be kept on site.	AECOM MAPMP2.0 DP1 Spec. CI.6.4.1.2 & CI.6.4.1.3	Verify	Aconex Reference	HP	Project Engineer AECOM			
1.3	Production Testing	Prior to commencing works	Supply information with respect to production testing, to requirements in VicRoads Section 812.	AECOM MAPMP2.0 DP1 Spec. CI.6.6.1 & VicRoads section 812	Verify	Approved production testing results	TP	Project Engineer Principal's Design Representative			

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1.4	Implementation of all measures and controls.	Prior to commencing works	All necessary measures and controls are being implemented including: PSP, EMP, TMP, SWMS and WP.	PSP,EMP, TMP, SWMS, WP	Visual inspection	Site inspection	HP*	Project Engineer			
2.0	Construction										
2.1	Placing Crushed Rock	Each Lot	<p>The crushed rock base course is to be placed in 2 equal layers. The Contractor shall supply survey reports prior to the placement of prime coat or primerseal. The levels must be checked in a 5m square grid on the finished surface level and shall not deviate more than +0,-10mm.</p> <p>The levels shall be recorded in a .TXT format with the relevant points displayed in a PDF file.</p>	AECOM MAPMP2.0 DP1 Spec. Cl.6.5.2.1 & Cl.6.5.2.5	Visual Inspection	Survey Report and Visual Inspection	HP*	Project Engineer			

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2.2	Proof Rolling	Each Lot	Proof rolling will occur upon the completion of compaction. The proof roll will be conducted in a systematic manner such that the entire area is covered uniformly. Only the top layer of the crushed rock basecourse is subject to proof rolling. Proof rolling to be undertaken with a multi wheel roller. The plant must travel at a speed no greater than 6km/hr. Contractor shall notify the Principal's Design Consultant so that they are present for the entire duration of proof rolling. Proof rolling shall be undertaken with the pneumatic tyred roller or watercart.	AECOM MAPMP2.0 DP1 Spec. CI.6.5.1.2.1	Visual Inspection	This ITP Signed	WP	Project Engineer Principal's Design Consultant			
2.3	Identification and treatment of unsuitable areas.	Each Lot	Should any area of crushed rock be disturbed or become unstable during proof rolling, the Principal's Representative should be advised immediately and proof rolling of the area ceased. Any areas of crushed rock layer that rut, yield or become unstable under the proof rolling must be investigated in the presence of the Principal's Representative.	AECOM MAPMP2.0 DP1 Spec. CI.6.5.1.2.1	Visual Inspection	Visual Inspection	HP*	Project Engineer Principals Design Representative			

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2.4	Submission of Proof Roll Report	Each Lot	A Proof roll report must be submitted to the Contract Administrator and Principal's Design Consultant for review.  <b>The hold point is released by the Contract Administrator or Principal's Design Consultant after review and written approval of the proof rolling report.</b>	AECOM MAPMP2.0 DP1 Spec. CI.6.5.1.2.3	Proof Roll Report	Aconex	HP	Project Engineer			

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2.5	Compaction Testing Report	Each Lot	<p>Submission of the compaction report shall be submitted to the Contract Administrator for review. The report is to include:</p> <ul style="list-style-type: none"> <li>Details of the Lot being tested</li> <li>Test certificates (field density, MMDD)</li> <li>Dry density ratio (characteristic and average)</li> <li>Compliance or non-compliance of the lot</li> <li>Rectification actions and outcome in case of non-conforming compaction</li> </ul> <p>When minimum field density testing frequency is 6 per lot or greater:</p> <ul style="list-style-type: none"> <li>Character dry density ratio <math>\geq 98\%</math> modified compaction</li> </ul> <p>When minimum field density testing frequency is less than 6 per lot:</p> <ul style="list-style-type: none"> <li>Average dry density ratio <math>\geq 98\%</math> modified compaction</li> </ul> <p>Testing Frequency:</p> <ul style="list-style-type: none"> <li>Up to 800 m2 Min 4</li> <li>801 m2 to 3,000 m2 Min 6</li> <li>More than 3000 m2 Minimum of one (1) test per 500 m2 or part thereof</li> </ul> <p><b>Hold point released after review and written confirmation of the compaction report being received.</b></p>	AECOM MAPMP2.0 DP1 Spec. CI.6.6.2.5	Testing	Compaction Testing Report & This signed ITP	HP	Project Engineer Contract Administrator			
2.6	Smoothness Testing	Each Lot	<p>Submission of the smoothness testing report is to be submitted to the contractor within seven (7) days of completion of the crushed rock lot. Surface smoothness</p>	AECOM MAPMP2.0 DP1 Spec. CI.6.5.2.2	Visual Inspection	Straight Edge Report & This signed ITP	HP	Project Engineer Contract Administrator			

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			shall be undertaken using 3.5m straight edge that is either hand held or mobile.  The straight edge shall be operated along:  A set of parallel lines not more than 10m apart covering the whole surface and on another set of parallel lines not more than 10m apart that are perpendicular to the first set. The surface of the crushed rock basecourse shall not deviate from the 3.5m long straight edge by more than 7mm, except in directions of where a grade change occurs.								

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**Final Inspection**

The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality \System Procedures and verifies lot compliance with specifications.

**Print Name:** \_\_\_\_\_ **Position:** \_\_\_\_\_ **Signature:** \_\_\_\_\_ **Date:**     /     /

**Legend:**

<b>HP</b>	Hold Point	Work shall not proceed past the HP until released by the Contract Administrator / Principal's Design Consultant	<b>IP</b>	Inspection point	Formal Inspection to be done and recorded
<b>HP*</b>	Fulton Hogan Hold Point	Work shall not proceed past the HP* until released by Fulton Hogan	<b>TP</b>	Test Point	Product compliance test to be undertaken and recorded/reported
<b>WP</b>	Witness Point	An inspection which must be witnessed by the Contract Administrator / Principal's Design Consultant	<b>SCP</b>	Survey conformance point	A qualified surveyor to check product/section/structure and report
<b>AP</b>	Approval Point	Written or verbal approval given by the Contract Administrator / Principal's Design Consultant			

**Notes**