Fulton Hogan	Inspection and Test Plan - Control and Supervision of the Works	Document # FHC-ITP-004 Revision : 1 Date : 23/01/2024

Client:	**MRPA**	**Construction Process:**	Prepared by:	Reviewed by :	Approved by :	
Project:	**FITZGERALD ROAD CARPARK**	***Type A Fill Placement***	Name: **Fynn Riddick**	Name: Justin Sciacca	Name:	
Job No:		**Specifications:** VicRoads Specification Sections 173, 204				
		Structure / Component: Pavement	Signed :	Signed	Signed :	
		Location: Fitzgerald Road Level Crossing Removal Project	Date : 18/01/2024	Date : 25/01/24	Date :	

Lot No:	**Lot Details:**	**Lot Size/ Quantity:**

Item No.	Task/Activity Description	Inspection / Controls and Verification Detail					HP/ WP/ AP/ IP/ TP/ SCP	Scale	Responsibility	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity		A or B	Project Engineer Site Engineer Superintendent Surveyor Foreman	Client	Fulton Hogan	FH's Sub-contractor	Date
1	**Preliminary Works**												
1.1	The current revision drawings/documents are being used including subcontractors copy.	Prior to commencing	Current revision drawing/documents are being used including the subcontractors copy.	Drawings and drawing registers	Visual Inspection	This ITP Signed Off	**HP***		Site Engineer / Site Foreman	N/A		N/A	
1.2	Implementation of all measures and controls	Prior to Placement/ Each Lot	All necessary measures and controls are being implemented, that is: OHSCP, PHSCP, PCMP, EMP, ECP, CEMP, ERA, QMP, CHMP, SWMS	OHSCP, PHSCP, PCMP, EMP, ECP, CEMP, ERA, QMP, CHMP, SWMS	Visual Inspection	This ITP Signed Off	**HP***		Site Engineer / Site Foreman	N/A		N/A	
1.3	Verify Material	Prior to Placement	Assigned CBR to be greater than 6% (<10%), swell is to be less than 1.5%, unless approved as expansive. Soil is to be graded such that 100% passes through a 75mm sieve, 40-80% passes through 4.75mm and 10-40% passes 0.075. PI between 6 and 25. Permeability of less than 5X10^-9 for capping and verge material	VicRoads Spec. Cl. 204.04(b) Cl. 204.06(c) Table 204.041 Table 3020.052	Site Inspection	Test Record (If silt is observed)	**HP**		Site Engineer & Superintendent			N/A	
1.4	Excavation Permit	Each lot	An excavation permit must be issued prior to any excavation commencing including removal of unsuitable material. Plant and equipment shall be appropriate for the task. Excavation operations shall not disturb areas outside the limit of excavation	Excavation permit	Verify	This ITP Signed Off	**HP***		Site Engineer	N/A		N/A	

Item No.	Task/Activity Description	Inspection / Controls and Verification Detail					HP/ WP/ AP/ IP/ TP/ SCP	Scale	Responsibility	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity		A or B	Project Engineer Site Engineer Superintendent Surveyor Foreman	Client	Fulton Hogan	FH's Sub-contractor	Date
2	**Construction Works**												
2.1	Survey set-out	Prior to Commencing Excavation	Survey activities undertaken to ensure and validate that all works meet level and location requirements. The establishment and integrity of the survey network shall be verified before commencing any survey and setout activity. IFC and latest available revision used	Latest IFC Drawings	Site Inspection	Survey records & pegs on the ground	**SCP**		Site Engineer/ Surveyor	N/A		N/A	
2.2	Inspection of fill area	Each lot	The Contractor shall not commence placing any fill on the prepared areas until the area has been reviewed by the Superintendent.	204.10 (b)	Visual Inspection	This ITP Signed Off	**HP**		Site Engineer / Superintendent			N/A	
2.3	Layer Thickness	During Excavation	Layers placed and spread in uniform compacted layers not thicker than 200mm.	VicRoads Spec. Cl. 204.10(d)(ii)	Visual Inspection	This ITP Signed Off	**IP**		Site Engineer	N/A		N/A	
2.4	Maximum Lot Size	During Excavation	Lot size for testing is to be one day's production or 5,000m2, whichever is lesser.	VicRoads Spec. Table 204.142	Visual Inspection	This ITP Signed Off	**IP**		Site Engineer	N/A		N/A	
2.5	Type A Placement	Prior to Placement/ Each Lot	• Top of fill must be shaped and compacted to minimise damage due to wet weather note 12 on Pavement Details 009-0001 "Capping Material can be substituted for (3%) Cement treated Stab Sand in confined areas • Any rocky material present must be uniform throughout the layer • Each layer shall be kept generally parallel to the surface of subgrade	204.10 (d) (i). 204.10 (d) (ii). Table 3020.052	Visual Inspection	This ITP Signed Off	**IP**		Site Engineer / Site Foreman	N/A		N/A	
2.6	Proof Roll	Each lot	Proof rolls to be conducted in accordance with Section 173 of the VicRoads Standard Specification	173.03 204.12) 204.10 (b)	Visual Inspection	This ITP Signed Off	**WP**		Site Foreman/ Superintendent			N/A	
3	**Testing**												
3.1	Reduced Test Frequency	Each lot	Initial Testing requirements shall satisfy the full requirements as detailed in the specification. Once three consecutive lots have achieved specified requirement, Superintendent can agree to reduce frequency of testing of subsequent lots to the reduced testing frequency specified in Table 204.141. Reduced frequency resets if one lot fails.	VicRoads Spec. Table 204.131	Test Record	Test Records	**AP**		Project Engineer	N/A		N/A	
3.2	Compaction Testing	Each Lot	Type A material should be compacted to 98% Characteristic Value of Density Ratio (Scale B).	VicRoads Spec. Table 204.131	Verify	Compaction Test Records	**TP**		Site Engineer	N/A		N/A	
3.3	Compaction Testing (Small Lots)	Each Lot	Any lot which has a surface area less than 500 m^2 may be treated as a small area. Acceptance of the lot shall be based on the mean values of 3 individual tests. Minimum Compaction shall be 100% SDD.	173.04 d	Test Point	Test Records Lot Register	**TP**		Site Engineer	N/A		N/A	
3.4	Maximum Particle Size	Each lot, unless reduced frequency has been approved	Material is to be graded such that 100% passes through a 75mm sieve, 40-80% passes through 4.75mm and 10-40% passes 0.075	VicRoads Spec. Cl. 204.14(a)(ii) Table 204.141 Table 204.041	Verify	Maximum Particle Size Test Records	**TP**		Site Engineer	N/A		N/A	
3.5	CBR/Swell	First lot only	CBR: ≥ 6%, Swell: ≤ 1.5% (Verge material less than 1.0%).	VicRoads Spec. Cl. 204.14(a)(i) Table 204.141 Table 204.041	Verify	CBR/Swell Test Records	**TP**		Site Engineer	N/A		N/A	
3.6	Atterberg Limit Tests	Each lot, unless reduced frequency has been approved	PI between 6 and 25, PI x % passing through 0.425 to be less than 1000	VicRoads Spec. Cl. 204.14(a)(ii) Table 204.141 Table 204.041	Verify	PI Test Records	**TP**		Site Engineer	N/A		N/A	
3.7	Permeability	Each lot, unless reduced frequency has been approved	Permeability of less than 5X10^-9 for capping and verge material	VicRoads Spec. Cl. 204.14(a)(ii) Table 204.141 Table 204.041	Verify	Permeability Test Records	**TP**		Site Engineer	N/A		N/A	

Item No.	Task/Activity Description	Inspection / Controls and Verification Detail					HP/ WP/ AP/ IP/ TP/ SCP	Scale	Responsibility	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity		A or B	Project Engineer Site Engineer Superintendent Surveyor Foreman	Client	Fulton Hogan	FH's Sub-contractor	Date
3.8	Material Property Testing (Scale B)	Each lot, unless reduced frequency has been approved	Obtain production testing ITP from the supplier. Materials shall be tested to show compliance with the requirements of Clause 204.04.	Cl 204.04 Cl204.14	Verify	NATA test report	**TP**		Site Engineer	N/A		N/A	
3.9	Survey Conformance	Each lot	The number of measurements and the tolerances of the mean and standard deviation from the theoretical surface level must comply with Table 204.031 Scale B: Range x = +5,-25 Max S = 15mm 40 measurements per lot	204.03	Survey conformance point	Survey report Lot Register	**WP SCP**		Site Engineer & Surveyor	N/A		N/A	

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: / /

Item No.	Task/Activity Description	Inspection / Controls and Verification Detail					HP/ WP/ AP/ IP/ TP/ SCP	Scale	Responsibility	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity		A or B	Project Engineer Site Engineer Superintendent Surveyor Foreman	Client	Fulton Hogan	FH's Sub-contractor	Date

Legend

HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	**IP**	Inspection point	Formal Inspection to be done and recorded
HP*	FH Hold Point	Work shall not proceed past the HP* until released by FHDB	**TP**	Test Point	Product compliance test to be undertaken and recorded/reported
WP	Witness Point	An inspection which must be witnessed by the Superintendent	**SCP**	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Superintendent			