



	Inspection and Test Plan - Control and Supervision of the Works	Document # <b style="color: red;">FHC-ITP-014
		Revision : 1 Date : 23/01/2024

Client: MRPA Project: FITZGERALD ROAD CARPARK Job No:	Construction Process: <u>Subsurface Drainage</u> Specifications: VicRoads Specification Section 701, 705 and Drawings Structure / Component: Drainage Location: Fitzgerald Road Level Crossing Removal Project	Prepared by: Name: Fynn Riddick Signed :  Date : 23/01/2024	Reviewed by : Name: Justin Sciacca Signed :  Date : 25/01/24	Approved by : Name: Signed : Date :
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Lot No:	Lot Details:	Lot Size/ Quantity:
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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			Client	Fulton Hogan	FH's Sub-contractor	Date
1	Preliminary Works											
1.1	Check for correct documentation	Prior to commencing any activity	Ensure that all employees and subcontractors are: - using the correct and complete set of drawings -all drawings are the latest revision	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 commencing any activity	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	Placement of no fines concrete methodology	Prior to works commencing	Where no fines concrete is to be used as filter material the Contractor shall submit quality procedures for review by the Superintendent which detail the method of placing the no-fines concrete. The method of compaction shall be in accordance with the Contractor's quality procedures	702.09(g)	Verify	This ITP signed off	HP	Site Engineer/ Superintendent			N/A	
1.4	Material Classification	Each Lot	Subsurface drainage pipes: 100mm DIA Class 1000kN/m/m corrugated perforated plastic pipe- with a perforation size of maximum 1.5mm width and minimum length of 150 mm per m^2. Granular filter material for bedding and backfill: Trench backfilled and bedded with specified material on drawings (Type 2 as per SD 1061) Geotextiles: Shall comply with CI 702.06. Subsurface drain pits: All subsurface drain pits shall be Type S1 to the specification of SD 1611 Pit Lids: Type M3 circular lid (as per SD 1051) for Type S1 pit Flushout risers: constructed to the detail of SD 1631	702.04 702.05 702.06	Verify	This ITP signed off	WP	Site Engineer	N/A		N/A	
2	Construction Works											

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1.5	Excavation Permit	Each lot	An excavation permit must be issued prior to any excavation commencing. 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	
1.6	Excavation of Trench	Each Lot	Bottom of trench shall be compacted and at a depth no more than 50mm below the specified pipe invert. Grade of the base of the trench shall not allow ponding of water Any loose material shall be removed. To be inspected by Superintendent	702.08	Visual Inspection	This ITP signed off	HP	Site Engineer/ Superintendent			N/A	

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1.7	Placement of bedding	Each Lot	Bedding of granular filter material, 25mm sand placed across bottom of trench and screeded or graded to level	702.09 (c)	Visual Inspection	This ITP signed off	IP	Site Engineer / Site Foreman	N/A		N/A	
1.8	Placing pipes and geofabric (if required)	Each Lot	Pipes placed centrally in trench and held firmly in place positioned with openings at the lower half of the pipe. If geofabric required as per CI 3030.07 (subsurface drains installed in expansive materials), minimum 150mm lap of geotextile used for wrapping.	702.09	Visual Inspection	This ITP signed off	WP	Site Engineer / Site Foreman	N/A		N/A	
1.9	Placement of backfill	Each Lot	Granular filter material placed and compacted compacted in layers not exceeding 300mm with minimal disturbance to pipes. Concrete is to be placed and compacted within one hour of mixing	702.09 (g)	Visual inspection	This ITP signed off	IP	Site Engineer / Site Foreman	N/A		N/A	
2	Install Pits and Flushouts	Each Lot	Installed in accordance with drawings and CI 702.10	702.1	Verify	This ITP signed off	WP	Site Engineer / Site Foreman	N/A		N/A	
2.1	Flushing Test	At completion of stage	All subsurface drainage lines constructed shall be inspected, after completion of the flushing test as stated in clause 702.09(h) and prior to placement of asphalt, by an independent testing organisation using closed circuit television (CCTV) to verify that the flow of water is not obstructed by waste construction material left inside and to check for visible signs of defects.	702.09(i) 702.09(h)	Site inspection	Signed ITP/ Record of flushing tests	WP	Superintendent / Site Engineer	N/A		N/A	
2.2	CCTV	At completion of stage	Placement of asphalt shall not proceed until the CCTV inspection and flushing test have been completed, damaged or deformed subsurface drainage pipe has been removed and replaced and the waste and defects free condition of subsurface drainage lines has been verified by the Superintendent.	702.09(i)	Site inspection	Signed ITP/ Record of flushing tests	HP	Superintendent / Site Engineer			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: / /

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			