

	<b>Inspection and Test Plan - Control and Supervision of the Works</b>	<b>ITP-002</b> Revision : 1
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<b>Client:</b> DTP <b>Project:</b> Auburn Road - Hawthorn  <b>Contract No:</b>	<b>Construction Process:</b> Stormwater Drainage  <b>Specifications:</b> VicRoads Specification Section 701  <b>Structure / Component:</b> Drainage <b>Location:</b>	<b>Prepared by:</b> Name: Ruby Lewis  Signed : 23/05/2025	<b>Reviewed by :</b> Name: Cameron Beattie  Signed : Date : 23/05/2025	<b>Approved by :</b> Name: Cameron Beattie  Signed : Date : 23/05/2025
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<b>Lot No:</b>	<b>Lot Details:</b>	<b>Lot Size/ Quantity:</b>
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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*	Project 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: QMP, TMP, JSEA, SWMS & ITP	QMP, TMP, JSEA, SWMS, ITP	Visual Inspection	This ITP signed off	HP*	Project Engineer / Site Foreman	N/A		N/A		
1.3	Precast Materials Inspection	Each Delivery	Precast materials have been inspected and fit for purpose and free of defects	701.04b	Visual Inspection	This ITP signed Receival and Inspection Checklist	IP	Project Engineer	N/A		N/A		
1.4	Precast Pipe Compliance	Prior to Commencing	Precast Reinforced Concrete Pipes shall comply with requirements of AS 4058  Pits deeper than 1.00m to be fitted with step irons as shown on the drawings. Step irons are compliant with AS4680 with a minimum average coating thickness equivalent to 600 g/m2.	VicRoads Spec. Cl.619 Cl. 701.04(a) Cl. 701.04(b)(i) Cl. 705.04(d) Cl. 705.11 AS4058 AS4680	Document review & Site inspection	Receival & Inspection Checklist  Manufacturer cetificate or accreditation	IP	Project Engineer	N/A		N/A		
1.5	Bedding material classification	Prior to start	Nominated material shall be free from perishable matter and conform with the requirements below: 100% passing 19mm sieve. 5%-40% passing 0.075mm. PI = 20 max.	701.04e Table 701.041 Table 701.042 Table 701.231	Verify	Test Reports from supplier	TP	Project Engineer	N/A		N/A		
1.6	Backfill material Classification	Prior to start	Nominated material shall be free from perishable matter and conform with the requirements below: 100% passing 37.5mm sieve. 5%-40% passing 0.075mm sieve. PI = 20 max.	701.04e Table 701.041 Table 701.042 Table 701.231	Verify	Test Reports from supplier	TP	Project Engineer	N/A		N/A		
1.7	Mortar material classification	Prior to start	Cementitious grouts shall be minimum Type C class dual shrinkage compensating, with a minimum 28 day compressive strength of 40 Mpa	610.33	Verify	Test Reports from supplier	TP	Project Engineer	N/A		N/A		

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2	Construction Works											
2.1	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	ITP Signed	HP*	Project Engineer	N/A		N/A	
2.2	Set out drainage	Prior to excavation	The position of all drainage lines are to be confirmed with the superintendent	Drawings 701.10	Visual Inspection	ITP Signed	HP	Engineer / Forman & Superintendent			N/A	
2.3	Excavation (pipes)	Each Trench	Horizontal clearance ( between the walls of trench to the side of pipe shall be 300mm – 600mm for pipes, and 0.5 to 1 times the overall height of the culvert for box culverts. Trench walls to be vertical where practical Depth of trench: • > 100mm below underside of pipe (for pipe width < 1500 mm) • > 200mm below underside of pipe (for pipe width > 1500 mm)	701.15 Table 701.151	Visual Inspection	ITP Signed	IP	Site Foreman	N/A		N/A	
2.4	Compact base of trench	Each Trench	Compacted to refusal using mechanical plant.	701.10	Visual Inspection	ITP Signed	IP	Project Engineer	N/A		N/A	
2.5	Place bedding material & compact	Each Trench	Bedding material shall be compacted to no less than the below thickness: - 100mm under pipes. - 80mm (earth foundation) - 150mm (rock foundation)	701.19	Visual Inspection	ITP Signed	IP	Project Engineer	N/A		N/A	
2.6	Place pipes	Each Line/Pit	Pipes & pits placed as shown on the drawings. No laying to occur until bedding lines and levels and compaction requirements have been satisfied	Drawings 701.17	Visual Inspection	ITP Signed	IP	Project Engineer / Site Foreman	N/A		N/A	
2.7	Jointing pipe sections	Each Line	Join pipes with rubber rings in accordance to manufacturer's instructions, check that the rings are clean and undisturbed. Any disturbed rings are to be cleaned and reassembled	701.18	Visual Inspection	ITP Signed	IP	Project Engineer / Site Foreman	N/A		N/A	

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2.8	Place & compact backfill material over pipes	each lot	<b>Backfill under paved area:</b> fill trench with selected back fill material to subgrade level <b>Backfill under area not paved:</b> Back fill trench with selected back fill to a level 0.3 m above the top of pipe or culvert, and ordinary back fill above that level  Loose layer thickness <= 150mm. 1 lot = 150mm layer	701.14 701.15	Visual Inspection	ITP Signed	IP	Site Engineer / Site Foreman	N/A		N/A	
2.9	Repairs to damaged pipes	Each damaged pipe	No repairs shall be undertaken without the superintendents approval of the repair materials and procedures All repair procedures undertaken in accordance with CI 701.25	701.31	Verify	ITP Signed	HP	Engineer / Forman & Superintendent			N/A	
3	<b>Testing &amp; Completion</b>											
3.1	Compaction and moisture content of backfill & bedding material	as required/requested	Backfill material shall be compactied to a mean density ratio of 92% using standard compactive effort.  Bedding material shall be compacted using a compaction plated to refusal.	701.2	Verify	Test Reports	TP	Project Engineer	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: / /

Legend					
HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent		IP	Inspection point
HP*	FH Hold Point	Work shall not proceed past the HP* until released by FH		TP	Test Point
WP	Witness Point	An inspection which must be witnessed by the Superintendent		SCP	Survey conformance point
AP	Approval Point	Written or verbal approval given by the Superintendent			