

## Concrete for Minor Structures and Incidental Works Inspection and Test Plan

Project: Wellesley St Bus Interchange - WSBI Number and Revision: DN1211 - 010 - Rev Draft

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	Inspection and Test Point Ac	Acceptance / Conformance Criteria	Standard / Specification	Verifying Document	Frequency	Verificati	on Activity	Downer Conformance of Compliance Signoff				ignoff
Item No.						Activity	Ву	Downer Signature	Date	MSQA signature (Blank as Req.)	Engineer Rep Signature (Blank as req.)	Comments / Closeout Details
SECTION	I 3 – PRE-CONSTRUCTION (P&G / ESTABL	ISHMENT)										
3.01	Site Requirements											
3.01.01	Construction Pack	Submit a Construction Pack including a Methodology and JSEA to the Engineer before works	Downer	Construction Pack	Submit 5 days prior to commencement of works	н	PE				R	
3.02.02	Survey Setout	Survey Set out as per contract drawings and specification, capturing pre-construction levels where needed.	Downer	Survey Records	Prior to Works	Н	SV					
3.01.02	Service Location	Complete the Excavation permit process to identify, locate and protect all services.	Downer	Excavation Permit	Prior to Excavation	н	SE					
3.02.03	Internal Permits	Complete internal Permits as required to complete works including but not limited to: Hot works, concrete saw, lift, confined space, working at height etc.	Downer	Internal Permits	Prior to Excavation	Н	SE					
3.01.03	External Permits	Obtain External Permits as required to complete works including but not limited to: Close approach, Worksafe Notice etc.	Downer	External Permits	Prior to Excavation	н	PE				R	
3.02.04	Approved Construction Drawings	Prior to starting works, Ensure that the construction drawings are both IFC and the Current Version.	Downer	IFC Drawings	Prior to works start	н	PE					
	4 - MATERIAL, PERSONNEL & THIRD PA General Material Approval	RTY APPROVAL										
4.01.01	Mix Design	Typical structures -Confirm supply of 'high grade' 20MPaconcrete; 19mm maxaggregate size.General site concrete - 10MPa Where specified ondrawings, use marinegrade concrete -30MPaThe Contractor shallensure that the readymix supplier can provide mix designinformation andstrength testingrecords on request.	Aurecon Civil Spec Section 14.6	Mix Design Report Approval	Upon Request / prior to Use	Н	PE			R	R	
4.01.02	Motar	Consisting of two parts fine, sharp, well graded sand to one part dry cementMix by hand or mixer in small qunatities,use within 30 minutes	Aurecon Civil Spec Section 14.6.5	In process check	Prior to each pour	_	PE					
4.01.03	Reinforcement	Reinforcement andembedded items cut, bent (cold) andaccurately placed asshown on design drawings. At least30mm cover to all reinforcing +5mm/-0mmBar spacing as per drawings +/- 10mmBend locations as perdrawings +/-5mm	Aurecon Civil Spec Section 14.6.7 AS/NZS 4671	In process check	Prior to each pour	ı	PE			R		
						,				ı		
	I 5 – CONSTRUCTION ACTIVITY – CONCRE	TE INSTALLATION										
5.01	Construction	1		I								
5.01.01	Pre Pour Inspection Concret Placement	Notify Engineer for inspection of formwork 24 hours prior to pour forinspection	-	QA Sheet	Prior to each pour	н	SE			ı	I	



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5.01.02	Pour Plan	Place concrete and construction joints as per design drawings Exposed surfaces: F4 formed finish (or F5 if specified), U2 screeded finish Slabs: U3 trowel finish for internal slabs, U5 textured forexternal slabs Delivery dockets dated and showing the concrete supplier and design strength shall be collected and held for every pour. Record location and date of each pour	NZS 3124	QA Sheet Delivery Dockets	For Each Pour	w	SE			R	R	
5.01.03	Testing	Slump test during pour to check workability of concrete or as directed by Engineer 3 cylinder tests taken for each pour. Slump target as per mix design 120 mm when measured at the point of delivery to site.	Aurecon Civil Spec; Section 14.7.12, NZS 3112	QA Sheet UCS Test Report	Each pour / every 75m3 (one sample for pours less than 75m3)	н	SE	н		R	R	
5.01.04	Independent Testing	The Engineer's Rep may request site samples/cores for independent testing of fresh or cured concrete to review the grading, mix design, strength and thickness.	-	IANZ Lab Report	Upon Request	w	SE			R	R	
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SECTION 6 – POST CONSTRUCTION (FINAL INSPECTION AND HANDOVER)												
6.01 Site Post Construction Activities												
6.01.01	Construction Record Compilation	Compile construction records for final submission ensuring defects (NCRs) / Snags / missing records are captured or closed out, all tests have been received and passed, and changes / omissions have been noted.	Downer	Records	Post construction	н	SE			R	R	
6.01.02	Survey Records	Ensure all items have been surveyed and records are assembled for asbuilting	Downer	Records	Post construction	Н	SV			R	R	
6.01.03		Create a set of Redline Drawings for Asbuilt creation noting all changes and departures in red pen/RFI reference	Downer	Redlines	Post construction	Н	PE			R	R	
6.01.04	Defect, Snag and Punch List	Update the project Defect, Snag and Punch List Register	Downer	Register	Post construction	н	PE			R	R	