

INSPECTION & TEST PLAN

WORK AREA:	CONTRACT NAME:	DESCRIPTION OF ACTIVITY:	Rev	Originator	Date	Approved	Date
Rawhiti St Morningside	Morningside Flood Mitigation Pump Station	SP1 Pump Station Structural Works	0	Casey Aubrey	22/01/2025	Grant Little	
ITP No: 02							

Item No.	ITEM	ACTIVITY TASK	ACCEPTANCE CRITERIA	FREQUENCY	Hold Point	CERTIFYING DOCUMENTATION, RECORD OR CHECKSHEET	VERIFICATION SIGN OFFS	
							INTERNAL VERIFICATION AUTHORITY OR RESPONSIBILITY <i>*Project Manager*</i>	CRITICAL HOLD POINT AUTHORITY
1.	Footings	Excavation	Visual Inspection	Upon completion of excavated footings. Confirm dimensions on IFC drawings	W	Survey confirmation		
		Subgrade	Geotech inspection minimum 100Kpa bearing capacity	Upon completion of excavated footings	H	Geotech inspection		
2.		Concrete	10 MPa	Check dispatch docket prior to pouring	H	Dispatch docket		
3.	Foundation Slab	Hardfill	95% MDD	At finished level	H	Geotechnical engineers report		
		Geogrid and Bidum	Triaxial Geogrid Tensar TX170 Bidum A19	Each EQ layer	W	As per manufacturers specifications		
		Formwork	Visual Inspection	Throughout construction	W	Formwork check sheet		
4.		Reinforcing	Visual Inspection	Throughout construction	W	Mill Certs Reinforcing check sheet		

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5.		Concrete	50.0MPa Visual Inspection Crush test reports	Check dispatch docket prior to pouring	H	Concrete Pre-Pour Check sheet Mix from certified plant		
6.	Sloped Floor Slab	Formwork	Visual Inspection	Throughout construction	W	Formwork check sheet		
7.		Reinforcing	Visual Inspection	Throughout construction	W	Mill Certs Reinforcing check sheet		
8.		Concrete	50.0 MPa Visual Inspection Crush test reports	Check dispatch docket prior to pouring	H	Concrete Pre-Pour Check sheet Mix from certified plant		
9.	Install precast panels	Lifting/Rigging	Approved lift plan	Communicated/signed prior to any lifting	H	Implemented Lift Plan		
10.	Cast insitu stitch joints	Formwork	Visual Inspection	Throughout construction	W	Formwork check sheet		
		Reinforcing	Visual Inspection	Throughout construction	W	Mill certs Reinforcing check sheet		
		Joint seal	Visual inspection	Upon installation	W	Sikaswell S2 installed in accordance with manufacturers guidelines		

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		Concrete	50.0MPa Visual Inspection Crush test reports	Check dispatch docket prior to pouring	H	Concrete Pre-Pour Check sheet Mix from certified plant		
11.	Cast insitu walls in Discharge basin	Formwork	Visual Inspection	Throughout construction	W	Formwork check sheet		
		Reinforcing	Visual Inspection	Throughout construction	W	Mill Certs Reinforcing check sheet		
		Joint seal	Visual inspection	Upon installation	W	Sikaswell S2 installed in accordance with manufacturers guidelines		
		Concrete Fixings	Visual inspection	Each Fixing/drill hole	W	Drill holes cleaned with compressed air Anchors installed in accordance with manufacturers guidelines 8.8 galvanized threaded rod fixed with Hilti HY200 epoxy		

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		Concrete	50.0MPa Visual Inspection Crush test reports	Check dispatch docket prior to pouring	H	Concrete Pre-Pour Check sheet Mix from certified plant		
12.	Cast insitu retention walls	Formwork	Visual Inspection	Throughout construction	W	Formwork check sheet		
		Reinforcing	Visual Inspection	Throughout construction	W	Mill Certs Reinforcing check sheet		
		Concrete Fixings	Visual inspection	Each Fixing/drill hole	W	Drill holes cleaned with compressed air Anchors installed in accordance with manufacturers guidelines 8.8 galvanized threaded rod fixed with Hilti HY200 epoxy		
		Concrete	50.0MPa Visual Inspection Crush test reports	Check dispatch docket prior to pouring	H	Concrete Pre-Pour Check sheet Mix from certified plant		

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13.	Cast insitu roof slab	Formwork	Visual Inspection	Throughout construction	W	Formwork check sheet		
		Reinforcing	Visual Inspection	Throughout construction	W	Mill Certs Reinforcing check sheet		
		Concrete	50.0MPa Visual Inspection Crush test reports	Check dispatch docket prior to pouring	H	Concrete Pre-Pour Check sheet Mix from certified plant		

INSPECTION & TEST PLAN

INSPECTION & TEST PLAN (ITP)

The ITP defines the required inspections during various stages of fabrication, construction and installation work. It is also a method of communicating these requirements to those doing the work and a verifying record that they have been carried out.

The ITP defines 2 different levels of inspection according to the following criteria:

- **Internal Verification:** This inspection or verification activity is required internally by United Civil. A Designated Internal Authority- Project Manager, Supervisor, Foreman or other authorised person is determined for the given inspection point or verification activity. Where a signature required verification is notified by signing the designated check sheet.
- **Critical Hold Points:** These are ONLY inspections required by the contract. It requires the Foreman/ Supervisor or Subcontractors Representative to notify the United Civil Project Manager that the hold point stage of inspection has been reached. Fabrication shall not proceed past this point unless the inspection has been carried out or approval to proceed is given in writing & signed by the Engineer's Representative.

The Engineer's Representative shall sign the Check sheet.

A Contract Hold Point is a contractual requirement. Where the Engineer's Rep has not signed or for whatever reason cannot sign the Hold Point off the Project Manager must signify verification by the Engineer by other means such email sign off or other formal correspondence and note as such on the ITP.