



		INSPECTION AND TEST PLAN Project: NZTA 5363 CIP SH30 Te Ngae Road Corridor-Iles Rd to Coulter Rd Construction Process: Streetlight Installations Specification: 800 - Streetlighting					Project Number: _____ Date submitted: _____ Prepared By: Downer New Zealand Approved By: _____			
Client: NZTA		Head Contractor      Subcontractor										
Item	Task/Activity/Description	Inspection/Test				Acceptance Criteria	Record documents	Responsibility	Comments	Checked by		
		Detail of Activity	Action (Hold, Monitor, Witness)	Minimum Test Frequency (Lot = 1 day's production or 2,500m2)	Inspection / Test method					Engineer	Contractor	Date
900	Setout, Materials and Preparation											
900.1	Method Statement Development / Job Safety & Environmental Analysis	Prepare shared services trench construction methodology and Job Safety & Environmental Analysis suitable for site (eg access, working areas, proximity to slopes, traffic and other site hazards, construction stages proposed)	H	NA	NA	Method Statement and JSEA Completed and signed by relevant authority.	MS & JSEA	Contractor	Method Statement and Job Safety & Environmental Analysis to be provided to Engineer for review prior to commencing excavation on site.			
900.2	Drawings and Specifications	Check drawings are for construction and latest revision. Check Specification is for construction and latest revision	H	NA	NA	Drawings and Specification are the latest revision.	IFC Drawings and Specification	Contractor	Up to date drawings and specification to be reviewed before construction.			
900.3	Power Connection	Ensure power supply is organised and is undertaken by an experience and competent contractor.	M	Once	NA	Unison to supply power to streetlight bases, subcontractor connecting streetlights to the network to be "approved" by the local electricity network company.	Unison Documents	Sub-Contractor				
900.4	Survey Set Out	GPS Setout of the shared services trench location as per the construction drawings.	M	All shared trenches.	Visual Inspection	Streetlight set out locations do not clash with other features (i.e. existing/new services etc)	Contractor's site diary and/or photos	Contractor	Setout location prior to commencing works.			
900.5	Sediment Controls are in place for the particular section	Check ESCP and ensure any controls needed are in place before excavation.	M	once per section	Visual Inspection	Erosion and Sediment controls are in place prior to starting works.	Contractor's site diary and/or photos	Contractor				
Construction and Finshing												
900.6	Pole	Assembly	M	each pole	Visual Inspection	Confirmation by contractor/installer of correct assembly per manufacturers instructions.	COC/QC Sheet	Sub-Contractor				
900.7		Installation	M	each pole	Visual Inspection	Installation to be 90 degrees to kerb and channel, pole tilt to be within 2°. Confirmation by contractor/installer of correct installation to manufacturers specification by contractor/installer.	COC/QC Sheet	Sub-Contractor				
900.8		Type	M	each pole	Visual Inspection	Ensure the correct pole type is installed per the latest IFC drawings.	COC/QC Sheet	Sub-Contractor				
900.9		Footings	M	each pole	Visual Inspection	Ensure poles are founded securely and have are adequatley backfilled to suit site conditions. Confirmation by contractor/installer of correct installation to manufacturers specification by contractor/installer.	COC/QC Sheet	Sub-Contractor				
900.10		Earthing	M	each pole	Visual Inspection	Confirmation by contractor/installer that all streetlights are earthed per installation requirements.	COC/QC Sheet	Sub-Contractor				
900.11	Luminaire	Type	M	each luminaire	Visual Inspection	Ensure the correct luminaire type is installed per the latest IFC drawings.	COC/QC Sheet	Sub-Contractor				
900.12		Tilt Angle	M	each luminaire	Visual Inspection	Ensure the correct luminaire tilt angle is installed per the latest IFC drawings. +/- 2°	COC/QC Sheet	Sub-Contractor				
900.13	Electrical Testing	Test relevant	H	each pole	Inspection / Audit	Confirmation by contractor/installer that streetlights and circuits have been satisfactorily tested in accordance with Electrical (Safety) Regulations 2010.	COC Sheet	Sub-Contractor				
900.14	Electrical certificate of compliance and electrical safety certificate	Complete COC	H	minimum once per Zone	Inspection / Audit	Submit COC.	COC Sheet	Sub-Contractor				
Close Out												
900.15	Collate above documentation	Document review	H	Each ITP	Review	All above documentation is shown as attached to this work pack.	Review	Contractor				

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900.16	As-built drawings	Survey	H	At completion of construction	Asbuilts to be submitted at the completion of construction, information to be captured regularly.	Asbuilts reviewed and submitted (i.e. showing final location of all poles).	In Eight record	Contractor				

Client Final Inspection - the signature below verifies that this ITP has been completed in accordance with NZTA Specifications and verifies lot compliance.				H	Hold Point	Work Shall not proceed past the HP until released by the Eng. Rep.
Contractor's Rep Name: _____ Signature: _____ Date: _____				W	Witness Point	An Inspection which must be witnessed by the Eng. Rep.
BBO Engineers Rep Name: _____ Signature: _____ Date: _____				M	Monitor Point	Intermittent monitoring of any stage of the work in progress by the Eng. Rep.