

# Motat Tramline Extension

*Project: Motat Tramline Extension  
 Client: Jesmond Construction Limited  
 Location: Motions Road, Western Springs, Auckland  
 Contract Value: \$ 55 000*

Electrix was awarded this project by Jesmond Construction Limited as a result of the Museum of Transport and Technology (MOTAT) decision to extend their tramline from the Auckland Zoo Station to the MOTAT's Aviation and Rail museum in Motions Road, Western Springs.

The scope of the work included the installation of 30 new steel poles stretching over an area of 1.2 kilometres. The poles consisted of single side-arm poles, double side-arm poles and strainer poles, ranging between 7.6 and 7.9 meters tall. Electrix was also responsible for fitting insulators, conductor wire, wire clamps, catenary wires, finials and pole decorative art work. The conductor wire is a solid grooved drawn copper wire, weighing approximately 1 kilogram per meter and its was suspended 6 to 6.3 meters above the rail level. At the curves or points, and the road crossing, the conductor wires are supported from tensioned catenary wires.

The new extension of the tramline was powered from the existing DC system the tram runs on.

The project also required Electrix to closely liaise with the Auckland Zoo, Western Springs College and the TAPAC dance association, which situated in the vicinity of the work site.

The project was completed on time and to our customers satisfaction.



Electrix Limited  
 2 George Bourke Drv  
 Mt. Wellington, Auckland 1140  
 PO Box 1688, Auckland 1160  
 New Zealand  
 Phone: +64-9-270 1700  
 Fax: +64-9-270 1701