

### DETROIT STREETCAR – QLINE DETROIT, MICHIGAN



#### PROJECT SCOPE

Woodlawn Avenue Route in downtown Detroit  
3.3 miles of Single Wire Fixed Termination (SWFT) and Off-Wire Charging Stations (CT) Overhead Contact System (OCS)  
System voltage supply of 750 volts DC

#### AFL'S SOLUTION

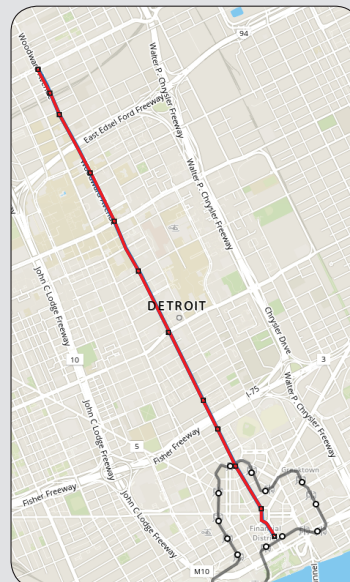
AFL's supply consisted of 13 different types of Assemblies, consisting of over 84 different types of Components.

#### LOCATION

The Detroit Streetcar System, owned and operated by M-1 Rail, is located in downtown Detroit with a circular route proceeding along Woodward Avenue between Congress Street and West Grand Boulevard. Along this route are 18 stops for service by up to 5 modern streetcars at any given time.

AFL's Assemblies and Components consisted of products necessary to erect Cantilevers, Tension Reducers, Section Insulators and Door Bridge Assemblies. Additionally, a series of special T-Rail Charging Stations consisting of a variety of unique arrangements including Back-to-Back, Single Side Lift, Rotational Swing Arm and Dual Wire Stations for the purpose of allowing the Detroit Streetcar to perform off-wire for short distances on the vehicles battery system.

Construction of this system began in March of 2016 with substantial completion and in-service operation in May 2017.



#### RAIL PRODUCTS USED

Fiber Optic Cable

Fiber Optic Cable Hardware

Copperclad Steel

Overhead Electrification

Alumoweld®

Substation and Grounding

Underground Connections