



Lesson 10: Tempe Streetcar Project Field Trip

Good afternoon and welcome to our Engineers of the future Virtual Field Trip for the Tempe Streetcar Project. I am Ryan Clark; I am a Civil Superintendent at Stacy and Witbeck, Inc. I and Lauren Fahy, Field Engineer at Stacy and Witbeck, Inc., are going to give you a virtual field trip of the Tempe Streetcar Project.

Here are some more details about the Tempe Streetcar Project.

STREETCAR PROJECT BACKGROUND:

- The Tempe Streetcar is the first modern streetcar in in the Valley. Service is scheduled to being in 2021.
- As the Valley's first modern streetcar line, it will add to the comprehensive transit network in Tempe, which includes buses, circulators, light rail, bicycle, and pedestrian amenities. It will make 14 stops for riders during its 3-mile route.
- Tempe Streetcar will serve one of the highest transit ridership centers in the region and share the roadway with vehicle traffic.
- Once it is completed it will connect riders to neighborhoods, parts of downtown, major business centers, regional events, and the Tempe Campus of Arizona State University.



- The streetcar will be able to travel on the light rail line and will use those tracks to travel to the Operations & Maintenance Center.

How Streetcars Operate

- Streetcars run on steel rails, but with no slot between the tracks and no underground cable.
- They are propelled by onboard electric motors and require a trolley poll to get power from by an overhead wire.
- But the Tempe Streetcar will be able to use “Off-wire” power through downtown on Mill Avenue and at gateway intersections, where narrow streets meet bigger streets.
- Streetcars are smaller than light rail trains and operate on their own, they are not linked together like trains.
- Streetcars make stops like busses, much more frequently as compared to light rail trains.



Tempe Streetcar Construction

- Construction on the Tempe Streetcar began in 2017.
- It began with utility relocation so tracks could be laid.
- Overhead Catenary System (OCS) installation in the wired portions of the route continues.
- Construction of stop platform foundations throughout the route is underway.
- Wrapping up track installation.



Thanks for taking a tour with me to see the TEMPE STREETCAR PROJECT.

We will have even more lessons on the ENGINEERS OF THE FUTURE YOUTUBE CHANNEL.