In 2015, the City added the first hybrid aerial vehicle to our fleet. This hybrid aerial vehicle is primarily used to repair and maintain signal lights throughout the city. The hybrid aerial combines two power units into one vehicle. An internal combustion engine is used to drive the vehicle on the road like any standard vehicle, and a small electric motor is used to power the hydraulic pump for aerial operation. Although the hybrid aerial vehicle performs like any standard aerial vehicle, the use of its electric motor to drive hydraulic lift operation results in several advantages compared to a conventional aerial vehicle.

- **Fuel Efficient** – One of the biggest advantages associated with a hybrid aerial vehicle is a drastic reduction in fuel consumption. In a conventional aerial vehicle, the internal combustion engine has to keep running in order to power hydraulic operation. This means that the vehicle continues to consume fuel the entire time the lift is in operation. With a hybrid, the electric motor only consumes electricity stored in its batteries.
- **Quiet Operation** – Unlike internal combustion engines, an electric motor can run quietly without any background noise, so it won't disturb residents in nearby houses. Additionally, it allows for better communication between an aerial worker and ground crews.
- **Eco-Friendly** – The electric motor does not emit harmful exhaust gases into the atmosphere, so it is eco-friendly and doesn't pose health risks to workers operating the vehicle. Moreover, eliminating the use of the internal combustion engine for aerial operations saves up to 1,200 gallons of fuel each year, or 12 tons of pollution.