

## Introduction



- ▶ Types of Electric Vehicle Charging
- Determine Needs
- Site Planning
- Project Considerations



#### Types of Electric Vehicle Charging

Level 1–120-volt single phase. Typical household duplex receptacle. Miles per hour of charge time 2 to 5 miles



Level 2- 208- or 240volt single phase requires the installation of additional hard wired charging infrastructure. Provides vehicle charging at 208 or 240-volt single phase power. Miles per hour of charge time 30 to 40 miles



Level 3- 480 volt 3phase requires the
installation of
additional hard wired
charging
infrastructure. Miles per
hour of charge time
375 to 750 miles



### **Determine Needs**



Include all stakeholders as each locations needs vary as infrastructure can come at a high cost.



Number and types of EV Charging Stations needed today



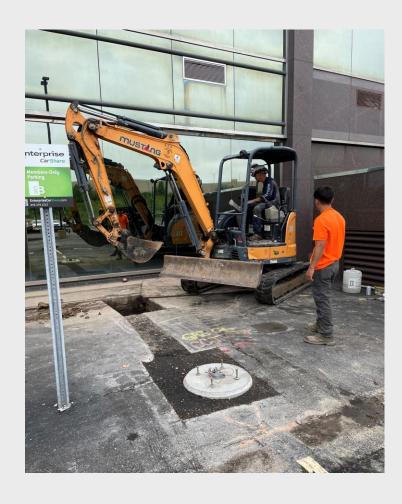
Future EV Charging Station considerations



Funding for current requests and future funding



# Site Planning



- Involve all stakeholders in planning process
- Convenience of EV Charging Station locations
- Power requirements for EV Charging Stations
- Consider placing EV Charging Stations in covered parking structures
- Keep EV Charging Stations away from water and irrigation drains
- Consider bollards, curbs, wheel stops, and setbacks to prevent vehicle damage to EV Charging Station
- Electric Vehicle signage that designates EV Parking Only and proper site lighting
- Identify and mitigate any significant safety risks
- Proximity to Power Source



## Project Considerations



- ► Electric Vehicle Charging Station
- Design and Construction Administration
- Future Proofing Approach
- Electrical Work
- Project Management
- Site Work
- Installation
- Utility Upgrades and Connection
- Contract Bond
- Operational and Maintenance Contract
- Signage and Pavement Markings



# Questions and Answers

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