

# Commercial Electric Vehicle Charging Stations Submittal Requirements

## Greenville County

Greenville County Square

301 University Ridge, Suite 4100

Greenville, SC 29601-3660

864/ 467 -7060

### Occupancy Classification: U (Utility)

#### **Site plan:**

(Architectural or Engineered) shall be dimensioned and to scale. The proposed Charging Station shall be located on the site plan.

In zoned area's of the county the Charging Station and all components associated with the Charging Station i.e. Bollards, Canopies, and Disconnects shall be located a minimum of 15' from all street right-of-way lines, and shall not encroach any required buffers.

The parking spaces utilized for charging shall be designed in accordance with ICC/ANSI 117.1. The number of accessible spaces shall be in accordance with IBC Table 1106.1 and 1106.5. The county does not assess the accessibility of the device itself.

The site plan shall also include locations of the all buildings and structures on the property, the actual burial route of the conductor including linear dimension of cable run, and the location of the service panel feeding the conductor.

#### **Electrical:**

Electrical permit required per NEC 401.2. Installation shall be in accordance with NEC 625.

Provide a construction document including the following:

Circuit breaker size NEC 210.20

Total connected load (over current device shall be 125% of name plate) NEC 625.21

Conductor length with voltage drop calculation. NEC 310.15, 210.19 A 1 FPN 4

Conductor size Table 310.16

Conductor type Table 310.16

Conduit size and type if used Chapter 9 Table 4

Burial depth and various surfaces encountered in the burial path. NEC 300.5

Appliance protection is required in the form of bollards NEC 110.27B

A plan view and section drawing of the bollard is required.

A disconnect shall be mounted within the bollard protected area. NEC 625.23

Specifications of the Charging Station are required. The station shall be listed. NEC 625.22

#### **Required Permits:**

[Commercial Building Application](#) – Based on cost

[Commercial Zoning Application](#)

[Electrical](#) Application – Amps and or Breakers