DIVISION 11 EQUIPMENT

SECTION 11 11 36.13 COMMERCIAL ELECTRIC VEHICLE CHARGING UNIT

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes Commercial Electric Vehicle (EV) Charging Unit standards for all projects.

B. ChargePoint Level 2 charging stations are to be used for new installations across all campus properties to make the EV charging experience consistent for users.

C. Charging stations must be compatible with the following:
   a. Mobile Smart Phone Application for users
   b. Software reporting (e.g. usage stats, tickets, etc.)
   c. Limiting time of Charge – 4-hour current limit
   d. Two charging cables per station

1.2 STRIPING AND SIGNAGE SPECIFICATIONS

A. Striping and Space Layout
   a. All lines should be painted with width 4 inches using a commercial line striping paint in the color white.
   b. All installations should be ADA compliant with:
      i. New construction - a minimum of 2 spaces, 96” in width with a 60” access isle between
      ii. Installations in a current parking lot. Replace 3 parking spaces with 2 spaces, 96” in width and a 96” access isle between.
      iii. Access isle should be striped to current no parking standard
      iv. Curb cuts and slope access to sidewalks must meet ADA standards
      v. Access to the charging station must be accessible
   c. EV Charging symbol should be:
      i. Green background with white lettering and symbol using commercial line striping paint
      ii. Square background to be 48” x 48”
      iii. EV stencil should be 36” x 21”

B. Signage
   i. Signage should be installed on standard U-channel sign post painted Architectural Brown with the bottom of the sign measuring no less than 84” from the ground unless installed in a raised area away from pedestrian traffic
   ii. Post should be mounted centered on the access isle
   iii. Sign should be ECU standard green EV parking sign 18” wide x 24” long (see Appendix A for image of sign)
1.3 ELECTRICAL SPECIFICATIONS

A. Voltage
   a. 208/240 Volt single phase system

B. Amperage
   a. 80 Amps max circuits for dual head units two 40 Amp circuits.

C. Wiring
   a. All wiring to be in accordance with the National Electric Code 625 Article 625 for Electrical Vehicle power transfer system.