



Nicholas Navin  
Parking Director

MEMORANDUM

TO: Eileen M. Donoghue, City Manager *EMD*  
FROM: Nicholas Navin, Parking Director  
SUBJECT: Council Motion of 3/22/18 by Councilor Cirillo  
Request City Manager provide a report regarding costs of adding three to four electric charging stations in the center of downtown

The City of Lowell currently has four Level 2 EV charging stations with a combined total of six ports available to the public located within the Joseph Downes Garage, Edward J Early Garage, and on Warren Street in front of UTEC. All charging stations are on the ChargePoint network. The purchase of these electric vehicle charging stations were made possible by grant opportunities with the Commonwealth.

To expand our charging station offerings, it would be helpful to grow our ChargePoint network, and the most appropriate product would be a dual head CT4021 upright station. Each charging station costs approximately \$9,000 per unit. The most feasible location for these units in the center of downtown would be within the Market Street garage, where the concrete decks would serve suitable anchor points, and the electrical service is easier to tap into and utilize. In addition to the suitability for the garages to be home to the charging stations, some downtown residents parking at the Market Street garage have inquired recently about the possibility of adding charging stations in the garage. On-street installation would be possible, but the solution for power and mounting will be more complex and involved.

The installation of a charging station within the garage, not including the need to upgrade any breakers to handle two cars charging concurrently, would be about \$500 per station. In total, to install three electric vehicle charging stations in the garage at Market Street it would cost the Parking Department approximately \$30,000. It should be noted that the operating budget of the Parking Department is very tight, and the costs represent a sizable portion of our annual operating budget for these types of improvements. The Parking Department recommends that we consider a phased approach of one station per fiscal year as our budget allows, starting in FY19.