



CITY OF CONCORD

REPORT TO THE MAYOR AND CITY COUNCIL

FROM: Robert J. Mack, PE, PTOE
Traffic Engineer

DATE: December 28, 2017

SUBJECT: Report from the Traffic Engineer on behalf of the Traffic Operations Committee recommending the installation of a street light on an existing utility pole on the northeast corner of the N. State Street/Franklin Street roundabout.

Recommendation

Accept this report and recommendation from the Traffic Operations Committee to install a new street light on an existing utility pole on the northeast corner of the N. State Street/Franklin Street roundabout to enhance nighttime illumination.

Background

Following up on a concern reported by a motorist, Engineering Services investigated nighttime illumination at the N. State Street/Franklin Street roundabout. Staff found that supplemental lighting would be beneficial on the northern side of the roundabout. The need for supplemental street lighting was further considered and endorsed by the Traffic Operations Committee (TOC) at its December 19, 2017 meeting.

Discussion

The N. State Street/Franklin Street roundabout is currently illuminated by a single overhead cobra-head light mounted on a utility pole in the southeast corner. While this light is directly over the southern portion of the roundabout, it is well over 100 feet away from the N. State Street southbound-approach splitter-island and crosswalks. Staff observations at night indicated a low illumination level, with particular concern for illumination at the northerly crosswalk.

The City locates street lights at most intersections, and particularly at major intersections. Because roundabouts cover a larger area than most intersections, the need for more than one light can arise. For example, the Liberty Street/Centre Street/Auburn Street roundabout is illuminated by two cobra-head street lights. At the subject roundabout, there is an existing utility pole located on the northeast corner near the splitter-island and crosswalk of the southbound N. State Street approach. Installation of a cobra-head street

light on that pole would be appropriate. Staff would request Unitil to install the light. The cost to the city would be the annual cost of power made out of the outdoor street lighting tariff account.

The Traffic Operations Committee (TOC) considered this request at its December 19, 2017 meeting and endorsed the installation of a street light on the existing utility pole on the northeast corner of the N. State Street/Franklin Street roundabout to enhance nighttime illumination of the northern part of the roundabout.