

Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING (LCDOT)

Effective: June 1, 2020

Revised: November 15, 2022

LC890.02

Description: This work shall consist of developing and maintaining appropriate traffic signal timings for the specified intersection for the duration of the temporary signalized condition, as well as impact to existing traffic signal timings caused by detours or other temporary conditions.

General: All timings and adjustments necessary for this work shall be performed by an approved Consultant who has previous experience in traffic signal optimization. The Contractor shall contact the Traffic Signal Engineer at (847) 377-7474 for a listing of approved Consultants.

The following tasks are associated with TEMPORARY TRAFFIC SIGNAL TIMING.

- a) Consultant shall attend the temporary traffic signal inspection (turn-on) and/or detour meeting and conduct on-site implementation of the traffic signal timings.
- b) Consultant shall be responsible for making fine-tuning adjustments to the timings in the field to alleviate observed adverse operating conditions and to enhance operations.
- c) Consultant shall document the observation of traffic signal operations in the field and report the information to the Traffic Signal Engineer on a monthly basis. In addition to the monthly report, all traffic signal timing modifications shall be documented and reported to the Traffic Signal Engineer within 24 hours after implementation.
- d) Automated Traffic Signal Performance Measures (ATSPMs) from LCDOT's ATSPM system shall be used in creating timing plans and fine-tuning adjustments and shall be documented in the monthly report. The Consultant shall contact the LCDOT at 847-377-7474 to acquire access to LCDOT's ATSPM system.
- e) Consultant shall provide consultation and adjust timings for all construction stage changes, temporary traffic signal phase changes, and any other conditions affecting timing and phasing, including lane closures, detours, and other construction activities. The timing adjustments can be done on-site or remotely if communication exists at the time of change.
- f) Consultant shall make timing adjustments based on guidance or public concerns from the Lake County Transportation Management Center or Traffic Signal Engineer. Each time the Consultant is contacted, they shall respond within 24 hours and provide a detailed response, with any corrected measures, to the Traffic Signal Engineer within 72 hours.

- g) If new traffic signal timings are not required under the OPTIMIZE TRAFFIC SIGNAL SYSTEM (LCDOT) pay item or RE- OPTIMIZE TRAFFIC SIGNAL SYSTEM (LCDOT) pay item, return original timing plan once construction is complete.

Basis of Payment: The work shall be paid for at the contract unit price per each intersection for TEMPORARY TRAFFIC SIGNAL TIMING, which price shall be payment in full for performing all work described herein per intersection. When the temporary traffic signal installation is turned on and/or detour implemented, 25 percent of the bid price will be paid. The remaining 75 percent of the bid price will be paid following the removal of the temporary traffic signal installation and/or detour.