

CDOT TRAFFIC SIGNAL MODERNIZATION 2020

CLIENT:

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CONTRACT: Specification Number 118890

DAMA is developing simulations models using SYNCHRO Traffic Simulation and TEAPAC Traffic Engineering Analysis software to evaluate 55 intersections in the City of Chicago.

The SYNCHRO and TEAPAC models incorporate existing signal timings, vehicle traffic volumes and turning counts, pedestrian counts, cycle counts, highway-rail grade crossing volumes, and other source to develop traffic signal warrants, identify operational deficiencies, and determine levels of service for each intersection. The model findings may be used to evaluate the safety and operational impacts of adjusting intersection geometries and markings, adding signals, changing signal timings, coordinating signals along a corridor, redesigning signals, and/or removing signals.

DAMA is conducting field observations and field data collection are used to develop the models and to evaluate MUTCD warrant factors including 8-hour and 4-hour vehicle volumes, peak hour volumes, pedestrian volumes, school crossings, crashes, network effects, and highwayrail grade crossings.



