

I-294 AT IRVING PARK ROAD INTERCHANGE FEASIBILITY STUDY

CLIENT:

Christopher B. Burke Engineering, Ltd.

CONTACT:

Michael Matkovic
(847)823-0500

CONTRACT:

Illinois State Tollway Authority RR-18-4383MP

PROJECT PURPOSE:

- Prepare Presentation Exhibits for Existing and No-Build Conditions
- Lead Traffic Analysis of No-Build Conditions and 5 Alternatives
- Develop Synchro/SimTraffic Network and Complete Peak Hour Analysis
- Analyze and Summarize Intersection Estimates for Future Alternatives
- Develop Highway Capacity Software (HCS) Freeway Analysis

DAMA Consultants, Inc., worked with Christopher B. Burke Engineering, Ltd., to conduct a Feasibility Study for an interchange between the I-294/Tri-State Tollway and Irving Park Road near the Chicago O'Hare International Airport. The Feasibility Study defined the need for the project, developed and evaluated potential alternatives, and facilitated coordination between multiple agencies.

DAMA was tasked with evaluating and analyzing several alternatives including Existing Conditions, 2020 No-Build, 2040 Build Baseline, and five 2040 Build Alternatives. The scope of these tasks included modeling conditions along the Tri-State Tollway and at intersections along Mannheim Road and Irving Park Road and **conducting a traffic signal timing optimization and operations analysis for different alternative geometric interchange designs.**

Synchro Version 10 was used to evaluate intersection conditions for the different alternatives and to assess the impact of changes across the study area.



Turning Counts - Tri-State and IL-19
Morning and Evening Peak Hour
Morning Peak - Nearest Intersection
Evening Peak - (In Parenthesis)

