



2016-202 Improvement Project  
PRELIMINARY REPORT OF ENGINEER

To the City Council  
City of Bloomington  
Hennepin County, Minnesota

The undersigned engineer, to whom the following proposed improvements were referred, hereby reports that said improvements are necessary, cost-effective and feasible and should best be made as proposed.

The estimated cost of the entire project is approximately:

Improvements	\$700,000
Plus Design and Project Administration	<u>\$420,000</u>
Total Cost	\$1,120,000

Said improvements consist of adding interconnected infrastructure, communications equipment, central systems software, implementation of phasing modifications, and coordinated and optimized signal timing plans at multiple corridors within the City, all as described in the attached Feasibility Report.

Dated this 4th day of April 2016.

Shelly A. Pederson  
City Engineer  
Registration No. 25463

SAP/jd

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# Preliminary Report / Feasibility Study Signal Optimization and Intelligent Transportation Systems (ITS) Project

City Project Number 2016-202

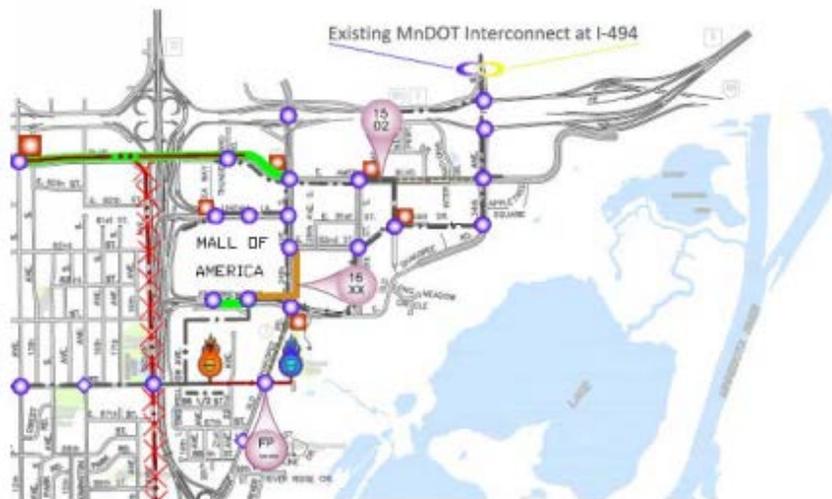
## I. Scope of Work

In 2009, the City was awarded an Energy Efficiency and Conservation Block Grant (EECBG). With those grant funds, the City studied signal optimization opportunities within the City and along with the I-494 Parallel Route Optimization (PRO) signal project, a few of the studied corridors were implemented. This project is a continuation of these previous projects.

The work will include adding interconnected infrastructure, communications equipment, central systems software, implementation of phasing modifications, and coordinated and optimized signal timing plans at multiple corridors within the City.

Locations being considered for signal optimization and ITS project are:

### *Section A1: South Loop District*



Section A2: American Boulevard



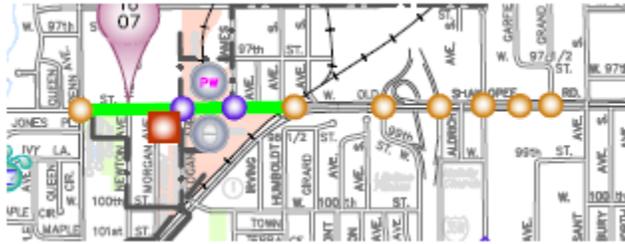
Section B: Lyndale Ave



Section C: 86<sup>th</sup> and 90<sup>th</sup> Streets



Section D: 98<sup>th</sup> Street (Humboldt Ave to Penn Ave)



Section E: 98<sup>th</sup> Street (France Ave to Little Rd)



Section F: West Bush Lake Road across I-494 bridge

**II. Project Cost Estimate**

The estimated project costs are summarized in the table below:

Design	\$300,000
Construction	\$700,000
Project Administration	\$120,000
<b>Total</b>	<b>\$1,120,000</b>

### III. Project Funding

The project is being funded by a mix of federal grant and City funds with the following breakdown:

Congestion Mitigation and Air Quality (CMAQ) Federal grant	\$896,000
Municipal State Aid (MSA) Funds	\$224,000
<b>Total</b>	<b><i>\$1,120,000</i></b>

Any CMAQ grant or MSA funds that are ineligible will be funded by City Fund 4130.

### IV. Special Assessments

There are no special assessments for this project.

### V. Design and Construction Schedule

Plans will be designed by a consultant engineer, managed by Bloomington Engineering Division staff. The tentative schedule is for construction to begin in the fall of 2016 and be completed in 2017.