Application

04774-2016 Roadway Modernization
05263 - Lexington Avenue (CSAH 51) Reconstruction, County Road E to I-694
Regional Solicitation - Roadways Including Multimodal Elements

Status: Submitted
Submitted Date:
07/15/2016 8:30 AM

## Primary Contact

| Name:* |  | Joseph |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Salutation | First Name | Middle Name | Last Name |
| Title: | Senior Planner |  |  |  |
| Department: | Ramsey County Public Works |  |  |  |
| Email: | joseph.lux@co.ramsey.mn.us |  |  |  |
| Address: | 1425 Paul Kirkwold Drive |  |  |  |
| * | Arden Hills | Minnesota |  | 55112 |
|  | City | State/Province |  | Postal Code/Zip |
| Phone:* | 651-266-7114 |  |  |  |
|  | Phone |  | Ext. |  |
| Fax: | 651-266-711 |  |  |  |
| What Grant Programs are you most interested in? | Regional So Elements | ation - Roadway | s Includin | Multimodal |

## Organization Information

## Name:



## Project Information

Project Name
Primary County where the Project is Located
Jurisdictional Agency (If Different than the Applicant):
Brief Project Description (Limit 2,800 characters; approximately
400 words) 400 words)

Lexington Avenue Reconstruction
Ramsey
Same
The project will reconstruct Lexington Avenue, CSAH 51, from County Road E to I-694. Proposed development and an associated traffic study indicated operational benefits could be obtained by adding a traffic signal at an existing commercial access serving a Target store on the east side of Lexington and mixed retail on the west and closing other accesses. The existing pavement, curb, and storm sewer are deficient and will be replaced. Right-turn lanes will be added where they do not exist.

Lexington Avenue (CSAH 51) Reconstruction
0.58

## Project Funding

| Are you applying for funds from another source(s) to implement this project? | No |  |
| :---: | :---: | :---: |
| If yes, please identify the source(s) |  |  |
| Federal Amount | \$3,693,080.00 |  |
| Match Amount | \$923,270.00 |  |
| Minimum of 20\% of project total |  |  |
| Project Total | \$4,616,350.00 |  |
| Match Percentage | 20.0\% |  |
| Minimum of 20\% |  |  |
| Compute the match percentage by dividing the match amount by the project total |  |  |
| Source of Match Funds | CSAH, MSA, and local funds. |  |
| A minimum of $20 \%$ of the total project cost must come from non-federal sources; additional match funds over the $20 \%$ minimum can come from other federal sources |  |  |
| Preferred Program Year |  |  |
| Select one: 2020 |  |  |
| For TDM projects, select 2018 or 2019. For Roadway, Transit, or Trail/Pedestrian projects, select 2020 or 2021. |  |  |
| Additional Program Years: |  |  |
| Select all years that are feasible if funding in an earlier year becomes available. |  |  |
| Specific Roadway Elements |  |  |
| CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES |  |  |
| Mobilization (approx. 5\% of total cost) |  | \$183,733.00 |
| Removals (approx. 5\% of total cost) |  | \$183,733.00 |
| Roadway (grading, borrow, etc.) |  | \$52,000.00 |
| Roadway (aggregates and paving) |  | \$2,197,271.00 |
| Subgrade Correction (muck) |  | \$0.00 |
| Storm Sewer |  | \$252,560.00 |
| Ponds |  | \$120,000.00 |
| Concrete Items (curb \& gutter, sidewalks, median barriers) |  | \$271,740.00 |
| Traffic Control |  | \$104,000.00 |
| Striping |  | \$136,750.00 |
| Signing |  | \$27,300.00 |
| Lighting |  | \$0.00 |
| Turf - Erosion \& Landscaping |  | \$128,200.00 |
| Bridge |  | \$0.00 |
| Retaining Walls |  | \$0.00 |

Noise Wall (do not include in cost effectiveness measure) ..... $\$ 0.00$
Traffic Signals ..... \$407,050.00
Wetland Mitigation ..... $\$ 0.00$
Other Natural and Cultural Resource Protection ..... $\$ 0.00$
RR Crossing ..... $\$ 0.00$
Roadway Contingencies ..... $\$ 404,213.00$
Other Roadway Elements ..... $\$ 0.00$
Totals ..... \$4,468,550.00
Specific Bicycle and Pedestrian Elements
CONSTRUCTION PROJECT ELEMENTS/COST
ESTIMATES ..... Cost
Path/Trail Construction ..... $\$ 0.00$
Sidewalk Construction ..... \$35,000.00
On-Street Bicycle Facility Construction ..... $\$ 0.00$
Right-of-Way ..... $\$ 0.00$
Pedestrian Curb Ramps (ADA) ..... \$60,000.00
Crossing Aids (e.g., Audible Pedestrian Signals, HAWK) ..... \$52,800.00
Pedestrian-scale Lighting ..... $\$ 0.00$
Streetscaping ..... $\$ 0.00$
Wayfinding ..... $\$ 0.00$
Bicycle and Pedestrian Contingencies ..... $\$ 0.00$
Other Bicycle and Pedestrian Elements ..... $\$ 0.00$
Totals ..... \$147,800.00
Specific Transit and TDM Elements
CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES ..... Cost
Fixed Guideway Elements ..... $\$ 0.00$
Stations, Stops, and Terminals ..... $\$ 0.00$
Support Facilities ..... $\$ 0.00$
Transit Systems (e.g. communications, signals, controls, ..... $\$ 0.00$ fare collection, etc.)
Vehicles ..... $\$ 0.00$
Contingencies ..... $\$ 0.00$

## Transit Operating Costs

| Number of Platform hours | 0 |
| :--- | :--- |
| Cost Per Platform hour (full loaded Cost) | $\$ 0.00$ |
| Substotal | $\$ 0.00$ |
| Other Costs - Administration, Overhead,etc. | $\$ 0.00$ |

## Totals

| Total Cost | $\$ 4,616,350.00$ |
| :--- | :--- |
| Construction Cost Total | $\$ 4,616,350.00$ |
| Transit Operating Cost Total | $\$ 0.00$ |

## Requirements - All Projects

## All Projects

1.The project must be consistent with the goals and policies in these adopted regional plans: Thrive MSP 2040 (2014), the 2040 Transportation Policy Plan, the 2040 Regional Parks Policy Plan (2015), and the 2040 Water Resources Policy Plan (2015).

Check the box to indicate that the project meets this requirement. Yes
2. The project must be consistent with the 2040 Transportation Policy Plan. Reference the 2040 Transportation Plan objectives and strategies that relate to the project.

List the goals, objectives, strategies, and associated pages:

The project is consistent with TPP policies on Transportation System Stewardship, particularly Objective A, to efficiently preserve and maintain the regional transportation system. It is also consistent with Objective B, to reduce the transportation system's vulnerability to natural and man-made incidents and threats. These are found on pages 58 and 161 of the TPP.
3. The project or the transportation problem/need that the project addresses must be in a local planning or programming document. Reference the name of the appropriate comprehensive plan, regional/statewide plan, capital improvement program, corridor study document [studies on trunk highway must be approved by the Minnesota Department of Transportation and the Metropolitan Council], or other official plan or program of the applicant agency [includes Safe Routes to School Plans] that the project is included in and/or a transportation problem/need that the project addresses.

List the applicable documents and pages:

## The Arden Hills and Shoreview comprehensive plans recognize the need to preserve the arterial systems in the Cities.

4.The project must exclude costs for studies, preliminary engineering, design, or construction engineering. Right-of-way costs are only eligible as part of bicycle/pedestrian projects, transit stations/stops, transit terminals, park-and-ride facilities, or pool-and-ride lots. Noise barriers, drainage projects, fences, landscaping, etc., are not eligible for funding as a standalone project, but can be included as part of the larger submitted project, which is otherwise eligible.

Check the box to indicate that the project meets this requirement. Yes
5.Applicants that are not cities or counties in the seven-county metro area with populations over 5,000 must contact the MnDOT Metro State Aid Office prior to submitting their application to determine if a public agency sponsor is required.

Check the box to indicate that the project meets this requirement. Yes
6.Applicants must not submit an application for the same project elements in more than one funding application category.

Check the box to indicate that the project meets this requirement. Yes
7.The requested funding amount must be more than or equal to the minimum award and less than or equal to the maximum award. The cost of preparing a project for funding authorization can be substantial. For that reason, minimum federal amounts apply. Other federal funds may be combined with the requested funds for projects exceeding the maximum award, but the source(s) must be identified in the application. Funding amounts by application category are listed below.
Roadway Expansion: $\$ 1,000,000$ to $\$ 7,000,000$
Roadway Reconstruction/ Modernization: \$1,000,000 to \$7,000,000
Roadway System Management \$250,000 to \$7,000,000
Bridges Rehabilitation/ Replacement: \$1,000,000 to \$7,000,000
Check the box to indicate that the project meets this requirement. Yes
8.The project must comply with the Americans with Disabilities Act.

Check the box to indicate that the project meets this requirement. Yes
9.The project must be accessible and open to the general public.

Check the box to indicate that the project meets this requirement. Yes
10.The owner/operator of the facility must operate and maintain the project for the useful life of the improvement.

Check the box to indicate that the project meets this requirement. Yes
11.The project must represent a permanent improvement with independent utility. The term independent utility means the project provides benefits described in the application by itself and does not depend on any construction elements of the project being funded from other sources outside the regional solicitation, excluding the required non-federal match. Projects that include traffic management or transit operating funds as part of a construction project are exempt from this policy.

Check the box to indicate that the project meets this requirement. Yes
12. The project must not be a temporary construction project. A temporary construction project is defined as work that must be replaced within five years and is ineligible for funding. The project must also not be staged construction where the project will be replaced as part of future stages. Staged construction is eligible for funding as long as future stages build on, rather than replace, previous work.

Check the box to indicate that the project meets this requirement. Yes
13.The project applicant must send written notification regarding the proposed project to all affected state and local units of government prior to submitting the application.

Check the box to indicate that the project meets this requirement. Yes

Roadways Including Multimodal Elements
1.All roadway and bridge projects must be identified as a Principal Arterial (Non-Freeway facilities only) or A-Minor Arterial as shown on the latest TAB approved roadway functional classification map.

Check the box to indicate that the project meets this requirement. Yes
Roadway Expansion and Reconstruction/Modernization projects only:
2.The project must be designed to meet 10 -ton load limit standards.

Check the box to indicate that the project meets this requirement. Yes
Bridge Rehabilitation/Replacement projects only:
3.Projects requiring a grade-separated crossing of a Principal Arterial freeway must be limited to the federal share of those project costs identified as local (non-MnDOT) cost responsibility using MnDOTs Cost Participation for Cooperative Construction Projects and Maintenance Responsibilities manual. In the case of a federally funded trunk highway project, the policy guidelines should be read as if the funded trunk highway route is under local jurisdiction.

Check the box to indicate that the project meets this requirement.
4.The bridge must carry vehicular traffic. Bridges can carry traffic from multiple modes. However, bridges that are exclusively for bicycle or pedestrian traffic must apply under one of the Bicycle and Pedestrian Facilities application categories. Rail-only bridges are ineligible for funding.

Check the box to indicate that the project meets this requirement.
5.The length of the bridge must equal or exceed 20 feet.

Check the box to indicate that the project meets this requirement.
6. The bridge must have a sufficiency rating less than 80 for rehabilitation projects and less than 50 for replacement projects. Additionally, the bridge must also be classified as structurally deficient or functionally obsolete.

Check the box to indicate that the project meets this requirement.

# Requirements - Roadways Including Multimodal Elements 

## Project Information-Roadways

|  | Ramsey County Public Works |
| :--- | :--- |
| County, City, or Lead Agency | 1425 Paul Kirkwold Dr. |
| Functional Class of Road | Aden Hills, MN 55112 |
| Road System | Class A Minor Arterial- Augmenter |
| TH, CSAH, MSAS, CO. RD., TWP. RD., CITY STREET | CSAH |
| Road/Route No. | 51 |
| i.e., 53 for CSAH 53 |  |
| Name of Road | Lexington Avenue |
| Example; 1 St ST., MAIN AVE |  |


| Zip Code where Majority of Work is Being Performed | 55112 |
| :---: | :---: |
| (Approximate) Begin Construction Date | 05/11/2020 |
| (Approximate) End Construction Date | 10/16/2020 |
| TERMINI:(Termini listed must be within 0.3 miles of any work) |  |
| From: <br> (Intersection or Address) | County Road E (CSAH 15) |
| To: (Intersection or Address) | I-694 South Ramp |
| DO NOT INCLUDE LEGAL DESCRIPTION |  |
| Or At |  |

Primary Types of Work

Examples: GRADE, AGG BASE, BIT BASE, BIT SURF,
SIDEWALK, CURB AND GUTTER,STORM SEWER,
SIGNALS, LIGHTING, GUARDRAIL, BIKE PATH, PED RAMPS,
BRIDGE, PARK AND RIDE, ETC.
BRIDGE/CULVERT PROJECTS (IF APPLICABLE)
Old Bridge/Culvert No.:
New Bridge/Culvert No.:
Structure is Over/Under
(Bridge or culvert name):

Grading, Aggregate Base, Strom Sewer, Concrete Surfacing, Sidewalk, Traffic Signal, including Audible Pedestrian Signals and Countdown Timers

## Expander/Augmentor/Connector/Non-Freeway Principal Arterial

| Select one: | Augmentor |
| :--- | :--- |
| Area | 0.843 |
| Project Length | 0.598 |
| Average Distance | 1.4097 |
| Upload Map |  |

## Reliever: Relieves a Principal Arterial that is a Freeway Facility

Facility being relieved

Number of hours per day volume exceeds capacity (based on the Congestion Report)

## Non-Freeway Facility Volume/Capacity Table

| Hour | NB/EB Volume | SB/WB Volume | Capacity | Volume exceeds capacity |
| :---: | :---: | :---: | :---: | :---: |
| 12:00am-1:00am |  |  | 0 |  |
| 1:00am-2:00am |  |  | 0 |  |
| 2:00am-3:00am |  |  | 0 |  |
| 3:00am-4:00am |  |  | 0 |  |
| 4:00am-5:00am |  |  | 0 |  |
| 5:00am-6:00am |  |  | 0 |  |
| 6:00am-7:00am |  |  | 0 |  |
| 7:00am-8:00am |  |  | 0 |  |
| 8:00am-9:00am |  |  | 0 |  |
| 9:00am-10:00am |  |  | 0 |  |
| 10:00am - 11:00am |  |  | 0 |  |
| 11:00am-12:00pm |  |  | 0 |  |
| 12:00pm - 1:00pm |  |  | 0 |  |
| 1:00pm-2:00pm |  |  | 0 |  |
| 2:00pm-3:00pm |  |  | 0 |  |
| 3:00pm - 4:00pm |  |  | 0 |  |
| 4:00pm - 5:00pm |  |  | 0 |  |
| 5:00pm -6:00pm |  |  | 0 |  |
| 6:00pm-7:00pm |  |  | 0 |  |
| 7:00pm - 8:00pm |  |  | 0 |  |
| 8:00pm -9:00pm |  |  | 0 |  |
| 9:00pm - 10:00pm |  |  | 0 |  |
| 10:00pm - 11:00pm |  |  | 0 |  |
| 11:00pm-12:00am |  |  | 0 |  |

## Measure B: Project Location Relative to Jobs, Manufacturing, and Education

Existing Students:
Upload Map

## Measure C: Current Heavy Commercial Traffic

| Location: | north of County Road E |
| :--- | :--- |
| Current daily heavy commercial traffic volume: | 1240 |
| Date heavy commercial count taken: | June 7, 2016 |

## Measure D: Freight Elements

Response (Limit 1,400 characters; approximately 200 words)
This segment of Lexington Avenue has approximately 115 acres of industrial land adjacent to it that relies on it for access to I-694. Currently, congestion at the Red Fox Road intersection and along the corridor inhibit freight movements. This project will benefit the industrial users by reducing congestion and improving safety at the Red Fox Road interchange and reducing conflicts by consolidating accesses.

## Measure A: Current Daily Person Throughput

Location
Current AADT Volume
Existing Transit Routes on the Project
north of County Road E
21300
225, 227, 261, 860

For New Roadways only, list transit routes that will be moved to the new roadway
Upload Transit Map
1467401730924_Transit Connections Map.pdf

## Response: Current Daily Person Throughput

Average Annual Daily Transit Ridership 0
Current Daily Person Throughput
27690.0

## Measure B: 2040 Forecast ADT

Use Metropolitan Council model to determine forecast (2040) ADT volume

If checked, METC Staff will provide Forecast (2040) ADT volume

## OR

Identify the approved county or city travel demand model to determine forecast (2040) ADT volume

Forecast (2040) ADT volume

## Measure A: Project Location and Impact to Disadvantaged Populations

Select one:
Project located in Area of Concentrated Poverty with 50\% or more
of residents are people of color (ACP50):
Project located in Area of Concentrated Poverty:
Projects census tracts are above the regional average for population in poverty or population of color:

Project located in a census tract that is below the regional average for population in poverty or populations of color or includes children, people with disabilities, or the elderly:

Response (Limit 2,800 characters; approximately 400 words)

Yes

This segment of Lexington Avenue is located in a commercial district that includes a large number of manufacturing jobs immediately adjacent to it. Affordable housing is provided in a large apartment complex located adjacent to the project area and just north of I-694. As well, affordable housing areas are located north and south of the project area and are accessed via Lexington Avenue.

The response should address the benefits, impacts, and mitigation for the populations affected by the project.
Upload Map 1467731886510_Socio Economic Map.pdf

## Measure B: Affordable Housing

City/Township Segment Length in Miles (Population)

## Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

| City/Township | Segment | Total Length | Score | Segment | Housing Score <br> Length (Miles) |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | (Miles) |  | Lengthotal | Multiplied by |  |
| Segment |  |  |  |  |  |

## Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

Total Project Length (Miles)
Total Housing Score

0
0

## Measure A: Year of Roadway Construction

Year of Original
Roadway Construction
or Most Recent
Reconstruction

| 1977 | 0.05 | 98.85 | 172.213 |
| ---: | ---: | ---: | ---: |
| 1979 | 0.2 | 395.8 | 689.547 |
| 1982 | 0.324 | 642.168 | 1118.76 |
|  | $\mathbf{1}$ | $\mathbf{1 1 3 7}$ | $\mathbf{1 9 8 1}$ |

## Average Construction Year

Weighted Year 1980

Total Segment Length (Miles)
Total Segment Length

## Measure B: Geometric, Structural, or Infrastructure Improvements

Improving a non-10-ton roadway to a 10-ton roadway:

Response (Limit 700 characters; approximately 100 words)

Yes
The segment of Lexington Avenue that is proposed for reconstruction was reconstructed in 3 segments, all $f$ which exhibit pavement stress related to the stopping and starting movements of the 20,000+ vehicles per day. We propose to salvage the base and replace the bituminous pavement with concrete to alleviate the rutting that is present and provide lower life-cycle costs.

Improved clear zones or sight lines:
Response (Limit 700 characters; approximately 100 words)

| Improved roadway geometrics: | Yes |
| :---: | :---: |
| Response (Limit 700 characters; approximately 100 words) | Right-turn lanes will be added where they are not present and a median provided in place of the existing center left-turn lane to work in concert with access management efforts outlined below. |
| Access management enhancements: | Yes |
| Response (Limit 700 characters; approximately 100 words) | In cooperation with a developer, we are closing the last of four random accesses that were in place and replacing them with a single, signal-controlled access that is opposite one serving a Super Target store and assorted retail uses. A problematic full access nearby will be reduced to right-in/right-out operation or consolidated with the new signalized access and another commercial access will be restricted to a $3 / 4$ access, with left turns out of the site prohibited. |
| Vertical/horizontal alignments improvements: |  |
| Response (Limit 700 characters; approximately 100 words) |  |
| Improved stormwater mitigation: | Yes |
| Response (Limit 700 characters; approximately 100 words) | Storm sewers will be upgraded to meet current treatment standards. |
| Signals/lighting upgrades: | Yes |
| Response (Limit 700 characters; approximately 100 words) | The existing signals will be upgraded to include APS, countdown timers, flashing yellow left-turn indications and a new signal will be added at the consolidated access point. |
| Other Improvements | Yes |
| Response (Limit 700 characters; approximately 100 words) | An existing gap of approximately a quarter mile in the sidewalk will be close with new sidewalk and all pedestrian crossings brought up to current ADA standards. The trail on the east side of the project will be repaved and its curb ramps upgraded. |

## Measure A: Congestion Reduction/Air Quality



# Measure B:Roadway projects that do not include new roadway segments or railroad grade-separation elements 

| Total (CO, NOX, | Total (CO, NOX, |
| :---: | :---: |
| and VOC) Peak | and VOC) Peak |
| Hour Emissions | Hour Emissions |
| Per Vehicle | Per Vehicle with |
| without the Project | the Project |
| (Kilograms): | (Kilograms): |

Total (CO, NOX, and VOC) Peak Hour Emissions Reduced Per Vehicle by the Project (Kilograms):
\(\left.\begin{array}{cc} \& Total (CO, NOX, <br>

and VOC) Peak\end{array}\right\}\)| Hour Emissions |  |
| :---: | :---: |
| Volume (Vehicles | Reduced by the |
| Project |  |
|  | (Kilograms): |

2688.0
188.16

188

## Total

Total Emissions Reduced:
Upload Synchro Report

1468439688276_Lexington Ave_Synchro - Report.pdf

## Measure B: Roadway projects that are constructing new roadway segments, but do not include railroad grade-separation elements (for Roadway Expansion applications only):

| Total (CO, NOX, | Total (CO, NOX, |
| :---: | :---: |
| and VOC) Peak | and VOC) Peak |
| Hour Emissions | Hour Emissions |
| Per Vehicle | Per Vehicle with |
| without the Project | the Project |
| (Kilograms): | (Kilograms): |

Total (CO, NOX, and VOC) Peak Hour Emissions
Reduced Per
Vehicle by the Project
(Kilograms):

|  | Total (CO, NOX, |
| :---: | :---: |
| and VOC) Peak |  |
| Volume (Vehicles | Hour Emissions |
| Per Hour): | Reduced by the <br> Project |
|  | (Kilograms): |

0

## Total Parallel Roadways

Emissions Reduced on Parallel Roadways
Upload Synchro Report

0
$\square$

EXPLANATION of methodology and assumptions used:(Limit 1,400 characters; approximately 200 words)

Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):

## Measure B:Roadway projects that include railroad grade-separation elements

Cruise speed in miles per hour without the project: 0
Vehicle miles traveled without the project: 0
Total delay in hours without the project: 0
Total stops in vehicles per hour without the project: 0
Cruise speed in miles per hour with the project: 0
Vehicle miles traveled with the project: 0
Total delay in hours with the project: 0
Total stops in vehicles per hour with the project: 0
Fuel consumption in gallons (F1) 0
Fuel consumption in gallons (F2) 0
Fuel consumption in gallons (F3) 0
Total (CO, NOX, and VOC) Peak Hour Emissions Reduced by the Project (Kilograms):

EXPLANATION of methodology and assumptions used:(Limit
1,400 characters; approximately 200 words)

## Transit Projects Not Requiring Construction

If the applicant is completing a transit or TDM application that is operations only, check the box and do not complete the remainder of the form. These projects will receive full points for the Risk Assessment.
Park-and-Ride and other transit construction projects require completion of the Risk Assessment below.
Check Here if Your Transit Project Does Not Require Construction

## Measure A: Risk Assessment

1)Project Scope (5 Percent of Points)

Meetings or contacts with stakeholders have occurred

100\%
Stakeholders have been identified
40\%
Stakeholders have not been identified or contacted
0\%

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2)Layout or Preliminary Plan (5 Percent of Points)
Layout or Preliminary Plan completed
100%
Layout or Preliminary Plan started Yes
50%
Layout or Preliminary Plan has not been started
0%
Anticipated date or date of completion
03/02/2018
3)Environmental Documentation (5 Percent of Points)
EIS
EA
PM
Yes
Document Status:
Document approved (include copy of signed cover sheet)
100\%
Document submitted to State Aid for review
Document in progress; environmental impacts identified; review request letters sent
50\%
Document not started
Yes
0\%
Anticipated date or date of completion/approval 01/12/2018
4)Review of Section 106 Historic Resources (10 Percent of Points)
No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and Yes project is not located on an identified historic bridge
\(100 \%\)
Historic/archeological review under way; determination of no historic properties affected or no adverse effect anticipated 80\%
Historic/archaeological review under way; determination of adverse effect anticipated
40\%
Unsure if there are any historic/archaeological resources in the project area
0\%
Anticipated date or date of completion of historic/archeological review:
```

Project is located on an identified historic bridge
5)Review of Section 4f/6f Resources (10 Percent of Points)

4(f) Does the project impacts any public parks, public wildlife refuges, public golf courses, wild \& scenic rivers or public private historic properties? 6(f) Does the project impact any public parks, public wildlife refuges, public golf courses, wild \& scenic rivers or historic property that was purchased or improved with federal funds?

No Section 4f/6f resources located in the project area Yes

100\%
No impact to $4 f$ property. The project is an independent
bikeway/walkway project covered by the bikeway/walkway
Negative Declaration statement; letter of support received
100\%
Section 4 f resources present within the project area, but no known adverse effects

80\%
Project impacts to Section 4f/6f resources likely
coordination/documentation has begun
50\%
Project impacts to Section 4f/6f resources likely
coordination/documentation has not begun
30\%
Unsure if there are any impacts to Section 4f/6f resources in the project area

0\%
6)Right-of-Way (15 Percent of Points)

Right-of-way, permanent or temporary easements not required Yes 100\%

Right-of-way, permanent or temporary easements has/have been acquired

100\%
Right-of-way, permanent or temporary easements required, offers made

75\%
Right-of-way, permanent or temporary easements required, appraisals made

50\%
Right-of-way, permanent or temporary easements required, parcels identified

25\%
Right-of-way, permanent or temporary easements required, parcels not identified

0\%

Right-of-way, permanent or temporary easements identification has not been completed

0\%
Anticipated date or date of acquisition
7)Railroad Involvement (25 Percent of Points)
No railroad involvement on project Yes

## 100\%

Railroad Right-of-Way Agreement is executed (include signature page) 100\%

Railroad Right-of-Way Agreement required; Agreement has been initiated

60\%
Railroad Right-of-Way Agreement required; negotiations have begun

40\%
Railroad Right-of-Way Agreement required; negotiations not begun
$0 \%$
Anticipated date or date of executed Agreement
8)Interchange Approval (15 Percent of Points)*
*Please contact Karen Scheffing at MnDOT (Karen.Scheffing@state.mn.us or 651-234-7784) to determine if your project needs to go through the Metropolitan Council/MnDOT Highway Interchange Request Committee.

Project does not involve construction of a new/expanded interchange or new interchange ramps

100\%
Interchange project has been approved by the Metropolitan
Council/MnDOT Highway Interchange Request Committee
100\%
Interchange project has not been approved by the Metropolitan Council/MnDOT Highway Interchange Request Committee

0\%
9)Construction Documents/Plan (10 Percent of Points)

Construction plans completed/approved (include signed title sheet)

100\%
Construction plans submitted to State Aid for review
75\%
Construction plans in progress; at least $30 \%$ completion
50\%
Construction plans have not been started
Yes

Anticipated date or date of completion
10)Letting

Anticipated Letting Date

# Measure A: Roadway Projects that do not Include Railroad Grade-Separation Elements 

| Crash Modification Factor Used: | 0.33 |
| :--- | :--- |
|  | Lexington Avenue (CSAH 51) is a 40 MPH roadway |
| that has an Adjusted Average Daily Traffic volume |  |
| of 20200 . The intersection that would receive the |  |
|  | signal is currently a 3 leg intersection where |
| Lexington Avenue has the right of way and there is |  |
| a stop sign at Target road (service road to target |  |
| and other commercial buildings). Most accidents in |  |
| the corridor occur from traffic turning onto |  |

(Limit 1400 Characters; approximately 200 words)
Project Benefit (\$) from B/C Ratio
Worksheet Attachment
\$605,059.00
1468253321479_Target Road benefit-cost-worksheet.xls

## Roadway projects that include railroad grade-separation elements:

Current AADT volume:
Average daily trains:
Crash Risk Exposure eliminated:

## Measure A: Multimodal Elements and Existing Connections

Presently this segment of Lexington Avenue has an eight-foot wide sidewalk on part of the west side and a trail on the east side. There is a gap of approximately a quarter-mile in the sidewalk that will be closed by constructing new sidewalk. All curb ramps will be brought up to current ADA standards and APS and countdown timers will be added to all traffic signals.

## Measure A: Cost Effectiveness

| Total Project Cost (entered in Project Cost Form): | $\$ 4,616,350.00$ |
| :--- | :--- |
| Enter Amount of the Noise Walls: | $\$ 0.00$ |
| Total Project Cost subtract the amount of the noise walls: | $\$ 4,616,350.00$ |
| Points Awarded in Previous Criteria |  |
| Cost Effectiveness | $\$ 0.00$ |

## Other Attachments

| File Name | Description | File Size |
| :--- | :--- | :--- |
| Accident Diagram (Lexington @ Red Fox <br> Rd).pdf | Crash Diagram- Lexington Avenue/Red <br> Fox Road Intersection | 90 KB |
| Accident Diagram (Target @ Service <br> Ent.).pdf | Crash Diagram- Lexington Avenue/South <br> Target Access | 217 KB |
| Arden Hills Resolution 2016-020.pdf | Arden Hills City Council Resolution of <br> Support | 691 KB |
| County Maintenance Letter Lexington.pdf Ramsey County- Intent to Maintain Letter | 56 KB |  |
| Lexington Ave Co Rd E to I694- <br> Layout.pdf | Concept Layout | 2.2 MB |
| LexingtonAveCoRdEtol694 Location <br> Map.pdf | Project Location Map | 714 KB |
| RADCsah51RamsRM.pdf | RADCsah51RamsRM | 213 KB |
| Support Resolution STP Funds for | Shoreview City Council Resolution of |  |
| Lexington South of I694 07-07-2016.pdf | Support | 439 KB |





3: Lexington Ave \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3030 |
| Total Delay $/$ Veh (s/v) | 27 |
| CO Emissions $(\mathrm{kg})$ | 3.04 |
| NOx Emissions $(\mathrm{kg})$ | 0.59 |
| VOC Emissions (kg) | 0.70 |

## 6: Lexington Ave \& 694 Ramps

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3194 |
| Total Delay / Veh (s/v) | 15 |
| CO Emissions $(\mathrm{kg})$ | 2.51 |
| NOx Emissions kg ) | 0.49 |
| VOC Emissions $(\mathrm{kg})$ | 0.58 |

## 9: Sub Entrance 2 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 678 |
| Total Delay $/$ Veh (s/v) | 2 |
| CO Emissions $(\mathrm{kg})$ | 0.16 |
| NOx Emissions (kg) | 0.03 |
| VOC Emissions (kg) | 0.04 |

## 11: Lexington Ave \& Cub Foods Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2390 |
| Total Delay $/$ Veh $(\mathrm{s} / \mathrm{v})$ | 4 |
| CO Emissions $(\mathrm{kg})$ | 1.18 |
| NOx Emissions $(\mathrm{kg})$ | 0.23 |
| VOC Emissions $(\mathrm{kg})$ | 0.27 |

## 13: Lexington Ave \& New Entrance/Target Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2330 |
| Total Delay $/ \mathrm{Veh}(\mathrm{s} / \mathrm{v})$ | 2 |
| CO Emissions $(\mathrm{kg})$ | 0.95 |
| NOx Emissions $(\mathrm{kg})$ | 0.19 |
| VOC Emissions $(\mathrm{kg})$ | 0.22 |

## 17: Lexington Ave \& Grey Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 2495 |
| Total Delay / Veh (s/v) | 18 |
| CO Emissions $(\mathrm{kg})$ | 2.22 |
| NOx Emissions $(\mathrm{kg})$ | 0.43 |
| VOC Emissions $(\mathrm{kg})$ | 0.51 |

20: Sub Entrance 1 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 515 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.10 |
| NOx Emissions $(\mathrm{kg})$ | 0.02 |
| VOC Emissions $(\mathrm{kg})$ | 0.02 |

Lexington Ave

| Direction | NB | SB | All |
| :--- | ---: | ---: | ---: |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 10 | 9 | 9 |
| CO Emissions $(\mathrm{kg})$ | 4.41 | 2.07 | 6.48 |
| NOx Emissions $(\mathrm{kg})$ | 0.86 | 0.40 | 1.26 |
| VOC Emissions $(\mathrm{kg})$ | 1.02 | 0.48 | 1.50 |
| Performance Index | 24.3 | 11.6 | 35.9 |

3: Lexington Ave \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3030 |
| Total Delay / Veh (s/v) | 26 |
| CO Emissions $(\mathrm{kg})$ | 2.96 |
| NOx Emissions $(\mathrm{kg})$ | 0.58 |
| VOC Emissions $(\mathrm{kg})$ | 0.69 |

## 6: Lexington Ave \& 694 Ramps

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3194 |
| Total Delay / Veh (s/v) | 15 |
| CO Emissions $(\mathrm{kg})$ | 2.51 |
| NOx Emissions kg ) | 0.49 |
| VOC Emissions $(\mathrm{kg})$ | 0.58 |

## 9: Sub Entrance 2 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 679 |
| Total Delay $/$ Veh (s/v) | 2 |
| CO Emissions $(\mathrm{kg})$ | 0.16 |
| NOx Emissions (kg) | 0.03 |
| VOC Emissions (kg) | 0.04 |

## 11: Lexington Ave \& Cub Foods Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2390 |
| Total Delay $/$ Veh $(\mathrm{s} / \mathrm{v})$ | 4 |
| CO Emissions $(\mathrm{kg})$ | 1.18 |
| NOx Emissions $(\mathrm{kg})$ | 0.23 |
| VOC Emissions $(\mathrm{kg})$ | 0.27 |

## 13: Lexington Ave \& New Entrance/Target Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2330 |
| Total Delay $/ \mathrm{Veh}(\mathrm{s} / \mathrm{v})$ | 4 |
| CO Emissions $(\mathrm{kg})$ | 1.09 |
| NOx Emissions $(\mathrm{kg})$ | 0.21 |
| VOC Emissions $(\mathrm{kg})$ | 0.25 |

## 17: Lexington Ave \& Grey Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 2494 |
| Total Delay $/$ Veh (s/v) | 16 |
| CO Emissions $(\mathrm{kg})$ | 2.10 |
| NOx Emissions $(\mathrm{kg})$ | 0.41 |
| VOC Emissions $(\mathrm{kg})$ | 0.49 |

20: Sub Entrance 1 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 515 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.10 |
| NOx Emissions $(\mathrm{kg})$ | 0.02 |
| VOC Emissions $(\mathrm{kg})$ | 0.02 |

Lexington Ave

| Direction | NB | SB | All |
| :--- | ---: | ---: | ---: |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 9 | 9 | 9 |
| CO Emissions $(\mathrm{kg})$ | 4.41 | 2.08 | 6.48 |
| NOx Emissions $(\mathrm{kg})$ | 0.86 | 0.40 | 1.26 |
| VOC Emissions $(\mathrm{kg})$ | 1.02 | 0.48 | 1.50 |
| Performance Index | 24.1 | 11.6 | 35.7 |

3: Lexington Ave \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3030 |
| Total Delay $/$ Veh (s/v) | 27 |
| CO Emissions $(\mathrm{kg})$ | 3.04 |
| NOx Emissions $(\mathrm{kg})$ | 0.59 |
| VOC Emissions (kg) | 0.70 |

## 6: Lexington Ave \& 694 Ramps

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3194 |
| Total Delay / Veh (s/v) | 15 |
| CO Emissions $(\mathrm{kg})$ | 2.51 |
| NOx Emissions kg ) | 0.49 |
| VOC Emissions $(\mathrm{kg})$ | 0.58 |

## 9: Sub Entrance 2 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 678 |
| Total Delay $/$ Veh (s/v) | 2 |
| CO Emissions $(\mathrm{kg})$ | 0.16 |
| NOx Emissions (kg) | 0.03 |
| VOC Emissions (kg) | 0.04 |

## 11: Lexington Ave \& Cub Foods Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2390 |
| Total Delay $/$ Veh $(\mathrm{s} / \mathrm{v})$ | 4 |
| CO Emissions $(\mathrm{kg})$ | 1.18 |
| NOx Emissions $(\mathrm{kg})$ | 0.23 |
| VOC Emissions $(\mathrm{kg})$ | 0.27 |

## 13: Lexington Ave \& New Entrance/Target Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2330 |
| Total Delay $/ \mathrm{Veh}(\mathrm{s} / \mathrm{v})$ | 2 |
| CO Emissions $(\mathrm{kg})$ | 0.95 |
| NOx Emissions $(\mathrm{kg})$ | 0.19 |
| VOC Emissions $(\mathrm{kg})$ | 0.22 |

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| Direction | All |
| :--- | ---: |
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| CO Emissions $(\mathrm{kg})$ | 2.22 |
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| VOC Emissions $(\mathrm{kg})$ | 0.51 |

20: Sub Entrance 1 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 515 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.10 |
| NOx Emissions $(\mathrm{kg})$ | 0.02 |
| VOC Emissions $(\mathrm{kg})$ | 0.02 |

Lexington Ave

| Direction | NB | SB | All |
| :--- | ---: | ---: | ---: |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 10 | 9 | 9 |
| CO Emissions $(\mathrm{kg})$ | 4.41 | 2.07 | 6.48 |
| NOx Emissions $(\mathrm{kg})$ | 0.86 | 0.40 | 1.26 |
| VOC Emissions $(\mathrm{kg})$ | 1.02 | 0.48 | 1.50 |
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3: Lexington Ave \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3030 |
| Total Delay / Veh (s/v) | 26 |
| CO Emissions $(\mathrm{kg})$ | 2.96 |
| NOx Emissions $(\mathrm{kg})$ | 0.58 |
| VOC Emissions $(\mathrm{kg})$ | 0.69 |

## 6: Lexington Ave \& 694 Ramps

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 3194 |
| Total Delay / Veh (s/v) | 15 |
| CO Emissions $(\mathrm{kg})$ | 2.51 |
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## 9: Sub Entrance 2 \& Red Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 679 |
| Total Delay $/$ Veh (s/v) | 2 |
| CO Emissions $(\mathrm{kg})$ | 0.16 |
| NOx Emissions (kg) | 0.03 |
| VOC Emissions (kg) | 0.04 |

## 11: Lexington Ave \& Cub Foods Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2390 |
| Total Delay $/$ Veh $(\mathrm{s} / \mathrm{v})$ | 4 |
| CO Emissions $(\mathrm{kg})$ | 1.18 |
| NOx Emissions $(\mathrm{kg})$ | 0.23 |
| VOC Emissions $(\mathrm{kg})$ | 0.27 |

## 13: Lexington Ave \& New Entrance/Target Entrance

| Direction | All |
| :--- | ---: |
| Future Volume $(\mathrm{vph})$ | 2330 |
| Total Delay $/ \mathrm{Veh}(\mathrm{s} / \mathrm{v})$ | 4 |
| CO Emissions $(\mathrm{kg})$ | 1.09 |
| NOx Emissions $(\mathrm{kg})$ | 0.21 |
| VOC Emissions $(\mathrm{kg})$ | 0.25 |

## 17: Lexington Ave \& Grey Fox Road

| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 2494 |
| Total Delay $/$ Veh (s/v) | 16 |
| CO Emissions $(\mathrm{kg})$ | 2.10 |
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| Direction | All |
| :--- | ---: |
| Future Volume (vph) | 515 |
| Total Delay / Veh (s/v) | 0 |
| CO Emissions $(\mathrm{kg})$ | 0.10 |
| NOx Emissions $(\mathrm{kg})$ | 0.02 |
| VOC Emissions $(\mathrm{kg})$ | 0.02 |

Lexington Ave

| Direction | NB | SB | All |
| :--- | ---: | ---: | ---: |
| Total Delay / Veh $(\mathrm{s} / \mathrm{v})$ | 9 | 9 | 9 |
| CO Emissions $(\mathrm{kg})$ | 4.41 | 2.08 | 6.48 |
| NOx Emissions $(\mathrm{kg})$ | 0.86 | 0.40 | 1.26 |
| VOC Emissions $(\mathrm{kg})$ | 1.02 | 0.48 | 1.50 |
| Performance Index | 24.1 | 11.6 | 35.7 |



## LEGEND

| 옻 | ACCIDENT WITH PEDESTRIAN |
| :---: | :---: |
| $\rightarrow \mathrm{O} \leftarrow$ | HEAD-ON |
| $\stackrel{\square}{\square}$ | HEAD-ON SIDESWIPE |
| $\longrightarrow$ | OVERTAKING SIDESWIPE |
| $\leftarrow$ | REAR END |
| $\bigcirc \leftarrow$ | RIGHT ANGLE |
| $\bigcirc \leftarrow$ | LEFT TURN |
| 880 | OUT OF CONTROL |


| Accident Severity | Weather |
| :---: | :---: |
| - NO INJURY | CL=CLEAR |
| © POSSIBLE INJURY | CLD=CLOUDY |
| (8) NON-INCAPACITATING INJURY | R=RAINING |
| (A) INCAPACITATING INJURY | SN=SNOWING |
| - FATALITY | F=FOGGY |

Road Surface
D=DRY
W=WET
$\mathrm{I}=\mathrm{ICY}$
SN=SNOWY

EXAMPLE:
Date Time Weather Road Surface

## ACCIDENT DIAGRAM

RAMSEY COUNTY ${ }^{\text {Lexington Ave ot Red Fox Rd. }}$
Department of Public Works
2013-2015


## CITY OF ARDEN HILLS COUNTY OF RAMSEY STATE OF MINNESOTA

RESOLUTION NO. 2016-020

## A RESOLUTION SUPPORTING RAMSEY COUNTY'S REQUEST FOR FEDERAL FUNDING FOR LEXINGTON AVENUE ROAD IMPROVEMENTS

WHEREAS, the City of Arden Hills has partnered with Ramsey County and the City of Shoreview to best serve transportation needs of the residents of the region;

WHEREAS, traffic congestion is a major problem along the Lexington Avenue corridor;
WHEREAS, The pavement surface is failing due to excessive rutting and is creating a safety hazard during rain events, due to stormwater collecting in the rutted wheelpaths;

WHEREAS, pedestrian facilities along this corridor are included in both Ramsey County and Arden Hills long range planning documents;

WHEREAS, Ramsey County, the Minnesota Department of Transportation and City of Arden Hills have already invested in pedestrian facilities along this corridor;

WHEREAS, these improvements will benefit commuters throughout the region.
THEREFORE, BE IT RESOLVED: The City of Arden Hills supports Ramsey County's request for Federal funding to construct these needed improvements.

ADOPTED BY THE CITY COUNCIL OF THE CITY OF ARDEN HILLS THIS $27^{\text {th }}$ DAY OF JUNE, 2016.


David Grant, MAYOR
ATTEST:


Julie Hanson, CITY CLERK

Public Works

July 11, 2016
Elaine Koutsoukos, TAB Coordinator
Metropolitan Council
390 Robert St. N.
Saint Paul, MN 55101

## SURFACE TRANSPORTATION PROGRAM FUNDING APPLICATION FOR RECONSTRUCTION/MODERNIZATION OF LEXINGTON AVENUE, RAMSEY COUNTY STATE AID HIGHWAY (CSAH 51), BETWEEN COUNTY ROAD E AND I-694- INTENT TO MAINTAIN

Dear Ms. Koutsoukos:
Ramsey County, as the political subdivision with jurisdiction over Lexington Avenue (CSAH 51) hereby states its intention to operate and maintain the facility, including any improvements funded through the Surface Transportation Program, for the full design life of the facility and planned improvements.

The application for Surface Transportation Program funds that we have submitted would not replace any regionally-funded improvements that were opened to traffic within the last five years.

Sincerely,


James E. Tolaas, P.E.
Director of Public Works/County Engineer
Enclosure


## Lexington Ave (51) County Rd. E to I-694



## Roadway Area Definition

## Results

Project Length: 0.598 miles
Project Area: 0.843 sq mi


Project Points
Project
A Minor Arterials
Project Area Principal Arterials Planned
For complete disclaimer of accuracy, please visit For complete http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx

# EXTRACT OF MINUTES OF MEETING OF THE CITY COUNCIL OF SHOREVIEW, MINNESOTA HELD JULY 5, 2016 

Pursuant to due call and notice thereof, a meeting of the City Council of the City of Shoreview, Minnesota, was duly called and held at the Shoreview City Hall in said City on July 5, 2016, at 7:00 p.m. The following members were present:

Mayor Martin, Council members Quigley, Johnson, Springhorn, Wickstrom, and the following members were absent: None.

Member Quigley introduced the following resolution and moved its adoption.

RESOLUTION NO. 16-62

## SUPPORTING LEXINGTON AVENUE CORRIDOR IMPROVEMENTS FROM I-694 TO COUNTY ROAD E

WHEREAS, Ramsey County is proposing improvements to Lexington Avenue, from I-694 to County Road E in Shoreview; and

WHEREAS, the proposed improvements address growing traffic, safety and congestion issues in the Lexington Avenue Corridor; and

WHEREAS, the proposed improvements would be beneficial to both motorized and non-motorized modes of transportation in and around the Corridor, as well as serve the economic development interests of the Community; and

WHEREAS, Ramsey County is submitting a proposal for Surface Transportation Program funding that seeks to minimize Shoreview's financial participation; and

WHEREAS, the Shoreview City Council has discussed and considered the proposed improvements to the Lexington Avenue Corridor.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF SHOREVIEW, MINNESOTA THAT the Shoreview City Council is supportive of Ramsey County's proposed improvement of the Lexington Avenue Corridor from I-694 to County Road E.

The motion for the adoption of the foregoing resolution was duly seconded by Member Johnson, and upon vote being taken thereon, the following voted in favor thereof: All present members;
and the following voted against the same: None.

WHEREUPON, said resolution was declared duly passed and adopted this $5^{\text {th }}$ day of July, 2016.

STATE OF MINNESOTA )
COUNTY OF RAMSEY )
CITY OF SHOREVIEW )

I, the undersigned, being the duly qualified and acting Manager of the City of Shoreview of Ramsey County, Minnesota, do hereby certify that I have carefully compared the attached and foregoing extract of minutes of a meeting of said City Council held on the $5^{\text {th }}$ day of July, 2016, with the original thereof on file in my office and the same is a full, true and complete transcript there from insofar as the same relates to the proposed improvement of Lexington Avenue.

WITNESS MY HAND officially as such Manager and the corporate seal of the City of Shoreview, Minnesota, this $6^{\text {th }}$ day of July 2016.

$$
\frac{\stackrel{y}{2}<}{\text { Terry Schwerm }} \begin{aligned}
& \text { City Manager }
\end{aligned}
$$

# CMIE 

CRASH MODIFICATION FACTORS CLEARINGHOUSE

## CMF / CRF Details

CMF ID: 323

Install a traffic signal (major road speed limit at least 40 mph )
Description: Install a traffic signal (major road speed limit at least 40 mph )
Prior Condition: No Prior Condition(s)
Category: Intersection traffic control
Study: Safety Effects of Left-Turn Phasing Schemes at High-Speed Intersections, Davis and Aul, 2007

Star Quality Rating:


## Crash Modification Factor (CMF)

Value: 0.33

Adjusted Standard
Error:
0.06

Unadjusted Standard
Error:
0.05

| Value: | 67 (This value indicates a decrease in crashes) |
| ---: | :--- |
| Adjusted Standard | 6 |
| Error: |  |
| Unadjusted Standard <br> Error: | 5 |

## Applicability

| Crash Type: | Angle |
| :---: | :---: |
| Crash Severity: | All |
| Roadway Types: | Not Specified |
| Number of Lanes: |  |
| Road Division Type: |  |
| Speed Limit: |  |
| Area Type: | Urban |
| Traffic Volume: |  |
| Time of Day: |  |
| If countermeasure is intersection-based |  |
| Intersection Type: | Roadway/roadway (not interchange related) |
| Intersection Geometry: | 4-leg |
| Traffic Control: | Stop-controlled |
| Major Road Traffic Volume: |  |

## Minor Road Traffic Volume:

## Development Details

| Date Range of Data |
| ---: | ---: |
| Used: |$|$| Municipality: |
| :--- |
| State: |
| Country: |
| Type of Methodology |
| Used: |

## Other Details

## Included in Highway Safety Manual?

Date Added to Clearinghouse:

Comments: Countermeasure name changed to match HSM
Yes. HSM lists this CMF in bold font to indicate that it has the highest reliability since it has an adjusted standard error of 0.1 or less.

This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the University of North Carolina Highway Safety Research Center

The information contained in the Crash Modification Factors (CMF) Clearinghouse is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the
use of the information contained in the CMF Clearinghouse. The information contained in the CMF Clearinghouse does not constitute a standard, specification, or regulation, nor is it a substitute for sound engineering judgment.


Amortizing...

year $(n)=1,2,3, \ldots$.
discount rate (i) $=7 \%$
Crash Benefits

$$
\left(\text { (@ year n) }=(\text { Crash Benefits })_{n-1} \quad \text { X } \quad(1+\text { Traffic Growth Factor })\right.
$$

Present Worth Benefits
$(\text { @ year n })_{\text {( }}^{(\text {Crash Benefits })_{n}}$ X $\quad 1 /(1+\text { Discount Rate })^{\mathrm{n}}$

| Type of Crash | Crash Severity | Cost per Crash |  |
| :--- | :--- | :--- | ---: |
|  | K | $\$$ | $1,140,000$ |
| Fatal | A Incapacitating | $\$$ | 570,000 |
|  | Personal Injury | $\$ 0 n-$ Incapacitating | $\$$ |
|  | C Possible | $\$$ | 170,000 |
|  | $\$ 3,000$ |  |  |
| Property Damage | PDO or N | $\$$ | 7,600 |

Source: MnDOT Office of Transportation System Management (July 2015)

