Application

01969-2014 Roadway System Management
01996 - Ramsey County State Aid Highway 96 Traffic Signal Coordination, Obsolete Signal Controller and Cabinet Replacement, Interconnect Upgrade, APS, ADA Upgrades, and Flashing Yellow Left-Turn Indication Installation.

Regional Solicitation - Roadways Including Multimodal Elements

| Status: | Submitted |
| :--- | :--- |
| Submitted Date: | $12 / 01 / 2014$ 10:25 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 | Min |  | 55112 |
|  | City | State |  | Postal Code/Zip |
| Phone:* | 651-266-7114 |  |  |  |
|  | Phone |  | Ext. |  |
| Fax: | 651-266-7110 |  |  |  |
| What Grant Programs are you most interested in? | Regional So Elements | ation - Rc | ss Includin | Multimodal |

## Organization Information

Name:
RAMSEY COUNTY
Jurisdictional Agency (if different):

| Organization Type: | County Government |
| :--- | :--- |
| Organization Website: |  |
| Address: | DEPT OF PUBLIC WORKS |
|  | 1425 PAUL KIRKWOOD DR |


| * | ARDEN HILLS | Minnesota <br> State/Province | City <br> Postal Code/Zip |
| :--- | :--- | :--- | :--- |
| County: | Ramsey |  |  |
| Phone:* | $651-266-7100$ | Ext. |  |
| Fax: |  |  |  |
| PeopleSoft Vendor Number | 0000023983 A30 |  |  |

## 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)

Highway 96 Traffic Signal Timing and Intersection Upgrades
Ramsey

Minor Arterial signal coordination project to replace obsolete traffic signal controllers and cabinets, develop and install coordinated signal timing plans, upgrade signal interconnect, install flashing yellow left-turn indications and APS at all signalized intersections. The project will also install ADAcompliant pedestrian ramps at all intersections on the corridor that are non-compliant. Note that the age of the traffic signal systems varies from 10-19 years and the equipment age listed in Section 4 is that of the oldest system.
7.567.56

## Connection to Local Planning:

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 MnDOT 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.

This project is consistent with the Thrive 2040 goal of system preservation in that it optimizes the operation of an existing facility. It is consistent with Ramsey County's Comprehensive Plan in that it preserves our system and enhances the accessibility of the Highway 96 Regional Trail. It is consistent with the comprehensive plans of all communities it affects.

## Project Funding

| Are you applying for funds from another source(s) to implement | No |
| :--- | :--- |
| this project? |  |
| If yes, please identify the source(s) | $\$ 1,893,519.40$ |
| Federal Amount | $\$ 473,379.85$ |
| Match Amount | $\$ 2,366,899.25$ |
| Minimum of 20\% of project total | $20.0 \%$ |
| Project Total |  |
| Match Percentage |  |
| Minimum of 20\% |  |
| Compute the match percentage by dividing the match amount by the project total |  |

Source of Match Funds CSAH and local funds.

Preferred Program Year
Select one:

## MnDOT State Aid Project Information: Roadway Projects

| County, City, or Lead Agency | Ramsey County Public Works |
| :--- | :--- |
| Functional Class of Road | Class A Minor Arterial- Expander |
| Road System | CSAH |
| TH, CSAH, MSAS, CO. RD., TWP. RD., CITY STREET |  |
| Name of Road | Highway 96 |
| Example; 1st ST., MAIN AVE | 55126 |
| Zip Code where Majority of Work is Being Performed | $05 / 14 / 2018$ |
| (Approximate) Begin Construction Date | $11 / 16 / 2018$ |
| (Approximate) End Construction Date |  |
| LOCATION |  |


| From: <br> (Intersection or Address) | Snelling Avenue |
| :---: | :---: |
| Do not include legal description; Include name of roadway if majority of facility runs adjacent to a single corridor. |  |
| To: <br> (Intersection or Address) | 1st Avenue |
| Type of Work | Replace Obsolete Traffic Signal Controllers, Cabinets and Interconnect, APS and Flashing Yellow Left-Turn Arrows, Upgrade Ped Ramps, Retime Signals |
| Examples: grading, aggregate base, bituminous base, bituminous surface, sidewalk, signals, lighting, guardrail, bicycle path, ped ramps, bridge, Park \& Ride, etc.) |  |
| Old Bridge/Culvert? | No |
| New Bridge/Culvert? | No |
| Structure is Over/Under (Bridge or culvert name): |  |
| Specific Roadway Elements |  |
| CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES | Cost |
| Mobilization (approx. 5\% of total cost) | \$113,000.00 |
| Removals (approx. 5\% of total cost) | \$90,783.90 |
| Roadway (grading, borrow, etc.) | \$0.00 |
| Roadway (aggregates and paving) | \$0.00 |
| Subgrade Correction (muck) | \$0.00 |
| Storm Sewer | \$0.00 |
| Ponds | \$0.00 |
| Concrete Items (curb \& gutter, sidewalks, median barriers) | \$102,343.00 |
| Traffic Control | \$0.00 |
| Striping | \$0.00 |
| Signing | \$0.00 |
| Lighting | \$0.00 |
| Turf - Erosion \& Landscaping | \$0.00 |
| Bridge | \$0.00 |
| Retaining Walls | \$0.00 |
| Noise Wall | \$0.00 |
| Traffic Signals | \$992,108.75 |
| Wetland Mitigation | \$0.00 |

Other Natural and Cultural Resource Protection ..... $\$ 0.00$
RR Crossing ..... $\$ 0.00$
Roadway Contingencies ..... $\$ 0.00$
Other Roadway Elements ..... \$30,496.00
Totals ..... \$1,328,731.65
Specific Bicycle and Pedestrian Elements
CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES Cost
Path/Trail Construction ..... $\$ 0.00$
Sidewalk Construction ..... $\$ 0.00$
On-Street Bicycle Facility Construction ..... $\$ 0.00$
Right-of-Way ..... $\$ 0.00$
Pedestrian Curb Ramps (ADA) ..... \$461,309.60
Crossing Aids (e.g., Audible Pedestrian Signals, HAWK) ..... \$576,858.00
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 ..... \$1,038,167.60
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, fare collection, etc.) ..... $\$ 0.00$
Vehicles ..... $\$ 0.00$
Transit and TDM Contingencies ..... $\$ 0.00$
Other Transit and TDM Elements ..... $\$ 0.00$
Totals ..... $\$ 0.00$

## Transit Operating Costs

OPERATING COSTS ..... Cost
Transit Operating Costs ..... $\$ 0.00$
Totals ..... $\$ 0.00$

## Totals

| Total Cost | $\$ 2,366,899.25$ |
| :--- | :--- |
| Construction Cost Total | $\$ 2,366,899.25$ |
| 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 2030 Transportation Policy Plan (amended 2013), the 2030 Regional Parks Policy Plan (amended 2013), and the 2030 Water Resources Management Policy Plan (2005).

Check the box to indicate that the project meets this requirement. Yes
2.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
3.Applicants must not submit an application for the same project in more than one funding sub-category.

Check the box to indicate that the project meets this requirement. Yes
4. 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. Expansion, reconstruction/modernization, and bridges must be between $\$ 1,000,000$ and $\$ 7,000,000$. Roadway system management must be between \$250,000 and \$7,000,000.

Check the box to indicate that the project meets this requirement. Yes
5. The project must comply with the Americans with Disabilities Act.

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

Check the box to indicate that the project meets this requirement. Yes
7. 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
8. 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
9. 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
10. The project applicant must send written notification regarding the proposed projected to all affected communities and other levels and units of government prior to submitting the application.

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

## Requirements - Roadways Including Multimodal Elements

## Expansion and Reconstruction/Modernization Projects Only

1. The project must be designed to meet 10-ton load limit standards.

Check the box to indicate that the project meets this requirement.
2.Federal funds are available for roadway construction and reconstruction on new alignments or within existing right-of-way, including associated construction and excavation, bridges, or installation of traffic signals, signs, utilities, bikeway or walkway components and transit components.
The project must exclude costs for right-of-way, studies, preliminary engineering, design, or construction engineering. Noise barriers, drainage projects, fences, landscaping, etc., are not eligible for funding unless included as part of a larger project, which is otherwise eligible.

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

## Bridge Projects Only

3.The bridge project 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.
4.Bridges selected in previous Bridge Improvement and Replacement solicitations (1994 2011) are not eligible. A previously selected project is not eligible unless it has been withdrawn or sunset prior to the deadline for proposals in this solicitation.

Check the box to indicate that the project meets this requirement.
5.Projects requiring a grade-separated crossing of a Principal Arterial of freeway design 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.
6. 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 sub-categories. Rail-only bridges are ineligible for funding.

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

Check the box to indicate that the project meets this requirement.
8. Project limits for bridge projects are limited from abutment to abutment.

Check the box to indicate that the project meets this requirement.
9.The project must exclude costs for studies, preliminary engineering, design, construction engineering, and right-of-way.

Check the box to indicate that the project meets this requirement.
Bridge Replacement Projects Only
10. The bridge must have a sufficienty rating less than 50. Additionally, it must also be classified as structurally deficient or functionally obsolete.

Check the box to indicate that the project meets this requirement.
Bridge Rehabilitiation Projects Only
11.The bridge must have a sufficienty rating less than 80. Additionally, it must also be classified as structurally deficient or functionally obsolete.

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

## Other Attachments

| File Name | Description | File Size |
| :--- | :--- | :--- |
| 1996 Ramsey Co HSIP.pdf | Crash B/C | 30 KB |
| CLASS_White Bear Pkwy_94.pdf | Vehicle Classification Count, west of <br> White Bear Parkway <br> CSAH 96 System Management Location | 47 KB |
| Highway96Location.pdf | Map |  |
| N O Ltr-County Grant Support.doc | North Oaks Support Letter |  |
| RdwayAreaDef.pdf | Roadway Area Definition | 78 KB |
| RegionalEcon.pdf | Regional Economy | 1.0 MB |
| Shoreview Support Itr federal STP funds <br> for Hwy 96.pdf | Shoreview Support Letter | 1.3 MB |
| SocioEcon.pdf | Social Economic | 268 KB |
| TransitCon.pdf | Transit Connections | 1.4 MB |
| Vadnais Heights Support Letter.pdf | Vadnais Heights Support Letter | 1.3 MB |

## Measure A: Functional Classification

Address how the project fulfills its role in the regional economy as identified by its current functional classification. If the project serves a system of routes, respond using the route with the highest functional classification. This system must include a Non-Freeway Principal Arterial or an "A" Minor Arterial.
Reference the Roadway Area Definition map generated at the beginning of the application process. Report the total area and project length, as depicted on the Roadway Project Summary map, to calculate the average distance between the project route (highest functional classification) and the closest parallel A Minor Arterials or Principal Arterials on both sides of the project.
Upload the "Roadway Area Definition" map used for this measure.

| Area | 41.874 |
| :--- | :--- |
| Project Length | 7.846 |
| Average Distance | 5.337 |

Upload Map
CSAH 96 System Roadway Definition.pdf

## Measure B: Current Heavy Commercial Traffic

Location
CSAH 96, West of White Bear Parkway
Current daily heavy commercial traffic volume

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

Select all that apply:
Direct connection to or within a mile of a Job Concentration Yes
Direct connection to or within a mile of a
Manufacturing/Distribution Location
Yes

Direct connection to or within a mile of an Educational Institution
Yes
Project provides a direct connection to or within a mile of an existing local activity center identified in an adopted county or city plan

County or City Plan Reference
Response (Limit 700 characters; approximately 100 words)
Upload Map
CSAH 96 Regional Economy.pdf

## Measure A: Current Daily Person Throughput

Location
Current AADT Volume
Existing Transit Routes on the Project

West of I-35E
30350.0
$6,62,261,262,265,275,285$

## Response - Daily Person Throughput

| Average Annual Daily Transit Ridership | 4.0 |
| :--- | :--- |
| Current Daily Person Throughput | 39459.0 |

## Measure B: $\mathbf{2 0 3 0}$ Forecast ADT

Use Metropolitan Council model to determine forecast (2030) ADT volume

METC Staff - Forecast (2030) ADT volume 39000.0

OR
Approved county or city travel demand model to determine forecast (2030) ADT volume

Forecast (2030) ADT volume
0

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

Select one:
Project located in Racially Concentrated Area of Poverty
Project located in Concentrated Area of 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.

Yes

This project is located on one of three primary east/west arterial routes on the County system. CSAH 96 provides a connection to the I-35W and I35E Principal Arterials, as well as the Snelling Avenue (TH 51), Lexington Avenue (CSAH 51), CSAH 49. Centerville Road (CSAH 59), and TH 61 Class A Minor Arterial Highways. As such, it provides a route to the job centers of New Brighton, Mounds View, Arden Hills, Shoreview, White Bear Township, Vadnais Heights, and White Bear Lake that provide manufacturing, technical, and professional jobs. Largely because of several lakes, there are no parallel east/west routes within approximately three miles north of CSAH 96. The nearest roughly parallel Principal Arterial, I-694 experiences over seven hours of congestion per day, making CSAH 96 a critical route to employment centers, as well as a secondary freight route.

CSAH 96 Socio-Economic.pdf

## Measure B: Affordable Housing

City/Township
Segment Length (Miles)
Arden Hills
Shoreview ..... 1.75
North Oaks ..... 1.04
Vadnais Heights ..... 1.235
White Bear Lake ..... 1.665
White Bear Township ..... 0.71

## Total Project Length

Total Project Length
7.56

Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

| City/Township | Segment | Total Length |
| :--- | :---: | :---: |
| Length (Miles) | (Miles) |  |


| Arden Hills | 1.0 | 7.4 | 45.0 | 0.135 | 6.081 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Shoreview | 1.75 | 7.4 | 79.0 | 0.236 | 18.682 |
| North Oaks | 1.04 | 7.4 | 17.0 | 0.141 | 2.389 |
| Vadnais Heights | 1.235 | 7.4 | 40.0 | 0.167 | 6.676 |
| White Bear | 0.71 | 7.4 | 33.0 | 0.096 | 3.166 |
| Township |  | 7.4 | 72.0 | 0.224 | 16.103 |
| White Bear Lake | 1.655 | 44 | $\mathbf{2 8 6}$ | $\mathbf{1}$ | $\mathbf{5 3}$ |

Affordable Housing Scoring - To Be Completed By Metropolitan Council Staff

Total Project Length (Miles)
Total Housing Score
7.4
53.097

## Measure A: Equipment Improvements and Installation Year

Equipment to be Improved
Date of Equipment Installation

Signal System A-N, Controller and Cabinet
06/01/1995

## Measure A: Cost Effectiveness of Vehicle Delay Reduction

Total Project Cost from Cost Sheet
Total Peak Hour Vehicle Delay Without The Project
Total Peak Hour Vehicle Delay With The Project
Total Peak Hour Vehicle Delay Reduced by Project
Cost Effectiveness

Synchro or HCM Reports
\$2,366,899.25
140.8
89.74
51.06
$\$ 46,355.25$
96-Lexington Combined PM \& PM Retimed.pdf

## Measure B: Cost Effectiveness of Emissions Reduction

Total Project Cost from Cost Sheet
Total Peak Hour Kilograms Reduced by Project
Cost Effectiveness
Synchro or HCM Reports
\$2,366,899.25
3.6
\$657,472.01
96-Lexington Combined PM \& PM Retimed.pdf

## Measure A: Benefit/Cost of Crash Reduction

| Project Benefit/Cost Ratio | 0.23 |
| :--- | :--- |
| Worksheet Attachment | CSAH 96 \& Lexington.xlsx |

## Measure A: Transit Connections

Existing Routes Directly Connected to the Project
6, 62, 261, 262, 265, 285
Planned Transitways directly connected to the project (alignment and mode determined and identified in the 2030 TPP)

Upload Map
CSAH 96 Transit connections.pdf

## Response

Met Council Staff Data Entry Only
Route Ridership
3554778.0

Transitway Ridership
0

Measure B: Bicycle and Pedestrian Connections

The Highway 96 Regional Trail is located on the south side of this route and extends from Old Highway 8, just west of the project limits to White Bear Lake, just east of the project limits. This trail also provides a direct connection to Long Lake Regional Park, west of the CSAH 96 corridor and to the Rice Creek Regional Trail. It provides a direct link to 12 existing and two planned Regional

Response (Limit 1,400 characters; approximately 200 words)

## Measure C: Multimodal Facilities

Response (Limit 1,400 characters; approximately 200 words)

As noted, the Highway 96 Regional Trail is located on the south side of the CSAH 96 corridor. This project will update all pedestrian crosswalks in the corridor to current ADA standards. All traffic signals will be upgraded to include Audible Pedestrian signals and countdown timers. Pedestrian walk phases will be evaluated as part of the signal coordination plan and retimed, as needed. Separate project will remove gaps in the Highway 96 Regional Trail that exist across the I-35W and I35E interchange areas in 2105 and 2015, respectively. Metro Transit will be consulted and appropriate modifications to stops and signal timing will be made, as allowed within the scope of the project.

## Transit Projects Not Requiring Construction

[^0]
## Measure A: Risk Assessment

## 1)Project Scope (5 Percent of Points)

Meetings or contacts with stakeholders have occurred

## 100\%

Stakeholders have been identified
Yes
$40 \%$
Stakeholders have not been identified or contacted
0\%
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
01/20/2017
3)Environmental Documentation (10 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
50\%
Document not started
Yes
0\%
Anticipated date or date of completion/approval
10/28/2016

No known potential for archaeological resources, no historic resources known to be eligible for/listed on the National Register of Historic Places located in the project area, and 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\%
Unknown impacts to historic/archaeological resources
0\%
Anticipated date or date of completion of historic/archeological
review:
09/30/2016

Project is located on an identified historic bridge
5)Review of Section 4f/6f Resources (15 Percent of Points)
(4f is publicly owned parks, recreation areas, historic sites, wildlife or waterfowl refuges; 6f is outdoor recreation lands where Land and Water
Conservation Funds were used for planning, acquisition, or development of the property)
No Section 4f/6f resources located in the project area

## 100\%

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

Yes

80\%
Adverse effects (land conversion) to Section 4f/6f resources likely
$30 \%$
Unknown impacts to Section 4f/6f resources in the project area
0\%
6)Right-of-Way (15 Percent of Points)

Right-of-way or easements not required Yes
100\%
Right-of-way or easements has/have been acquired
100\%
Right-of-way or easements required, offers made
75\%
Right-of-way or easements required, appraisals made
50\%
Right-of-way or easements required, parcels identified
25\%
Right-of-way or easements required, parcels not identified

Right-of-way or 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
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)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
0\%

Anticipated date or date of completion
9)Letting

Anticipated Letting Date

Yes

04/28/2017

03/16/2018


# Ramsey County Public Works 

1425 Paul Kirkwold Drive
Arden Hills, MN 55112
Highway 96 at White Bear Ave
File Name : CLASS_White Bear Pkwy_94
Site Code :
Start Date : 11/18/2014
Page No : 1

Groups Printed- Cars + - Trucks

| Groups Printed- Cars + - Trucks |  |  | Int. Total |
| :---: | :---: | :---: | :---: |
|  | Highway 96 <br> From South |  |  |
| Start Time | Thru | App. Total |  |
| 12:00 AM | 48 | 48 | 48 |
| 12:15 AM | 31 | 31 | 31 |
| 12:30 AM | 27 | 27 | 27 |
| 12:45 AM | 27 | 27 | 27 |
| Total | 133 | 133 | 133 |
| 01:00 AM | 18 | 18 | 18 |
| 01:15 AM | 26 | 26 | 26 |
| 01:30 AM | 30 | 30 | 30 |
| 01:45 AM | 13 | 13 | 13 |
| Total | 87 | 87 | 87 |
| 02:00 AM | 32 | 32 | 32 |
| 02:15 AM | 25 | 25 | 25 |
| 02:30 AM | 31 | 31 | 31 |
| 02:45 AM | 27 | 27 | 27 |
| Total | 115 | 115 | 115 |
| 03:00 AM | 24 | 24 | 24 |
| 03:15 AM | 20 | 20 | 20 |
| 03:30 AM | 19 | 19 | 19 |
| 03:45 AM | 25 | 25 | 25 |
| Total | 88 | 88 | 88 |
| 04:00 AM | 18 | 18 | 18 |
| 04:15 AM | 37 | 37 | 37 |
| 04:30 AM | 78 | 78 | 78 |
| 04:45 AM | 113 | 113 | 113 |
| Total | 246 | 246 | 246 |
| 05:00 AM | 99 | 99 | 99 |
| 05:15 AM | 125 | 125 | 125 |
| 05:30 AM | 204 | 204 | 204 |
| 05:45 AM | 250 | 250 | 250 |
| Total | 678 | 678 | 678 |
| 06:00 AM | 321 | 321 | 321 |
| 06:15 AM | 355 | 355 | 355 |
| 06:30 AM | 450 | 450 | 450 |
| 06:45 AM | 533 | 533 | 533 |
| Total | 1659 | 1659 | 1659 |
| 07:00 AM | 517 | 517 | 517 |
| 07:15 AM | 564 | 564 | 564 |
| 07:30 AM | 595 | 595 | 595 |
| 07:45 AM | 593 | 593 | 593 |
| Total | 2269 | 2269 | 2269 |
| 08:00 AM | 558 | 558 | 558 |
| 08:15 AM | 496 | 496 | 496 |
| 08:30 AM | 515 | 515 | 515 |
| 08:45 AM | 510 | 510 | 510 |
| Total | 2079 | 2079 | 2079 |
| 09:00 AM | 485 | 485 | 485 |
| 09:15 AM | 490 | 490 | 490 |
| 09:30 AM | 516 | 516 | 516 |

# Ramsey County Public Works <br> 1425 Paul Kirkwold Drive <br> Arden Hills, MN 55112 

Highway 96 at White Bear Ave CLASS COUNT

File Name : CLASS_White Bear Pkwy_94
Site Code :
Start Date : 11/18/2014
Page No : 2

Groups Printed- Cars + - Trucks


# Ramsey County Public Works 

1425 Paul Kirkwold Drive
Arden Hills, MN 55112

Highway 96 at White Bear Ave CLASS COUNT

File Name : CLASS_White Bear Pkwy_94
Site Code :
Start Date : 11/18/2014
Page No : 3

Groups Printed- Cars + - Trucks

| Groups Printed- Cars + Trucks |  |  | Int. Total |
| :---: | :---: | :---: | :---: |
|  | Hig <br> Fr |  |  |
| Start Time | Thru | App. Total |  |
| 07:00 PM | 390 | 390 | 390 |
| 07:15 PM | 356 | 356 | 356 |
| 07:30 PM | 330 | 330 | 330 |
| 07:45 PM | 281 | 281 | 281 |
| Total | 1357 | 1357 | 1357 |
| 08:00 PM | 282 | 282 | 282 |
| 08:15 PM | 268 | 268 | 268 |
| 08:30 PM | 289 | 289 | 289 |
| 08:45 PM | 259 | 259 | 259 |
| Total | 1098 | 1098 | 1098 |
| 09:00 PM | 254 | 254 | 254 |
| 09:15 PM | 241 | 241 | 241 |
| 09:30 PM | 195 | 195 | 195 |
| 09:45 PM | 151 | 151 | 151 |
| Total | 841 | 841 | 841 |
| 10:00 PM | 135 | 135 | 135 |
| 10:15 PM | 135 | 135 | 135 |
| 10:30 PM | 121 | 121 | 121 |
| 10:45 PM | 122 | 122 | 122 |
| Total | 513 | 513 | 513 |
| 11:00 PM | 82 | 82 | 82 |
| 11:15 PM | 66 | 66 | 66 |
| 11:30 PM | 72 | 72 | 72 |
| 11:45 PM | 52 | 52 | 52 |
| Total | 272 | 272 | 272 |
| Grand Total | 33353 | 33353 | 33353 |
| Apprch \% | 100 |  |  |
| Total \% | 100 | 100 |  |
| Cars + | 32204 | 32204 | 32204 |
| \% Cars + | 96.6 | 96.6 | 96.6 |
| Trucks | 1149 | 1149 | 1149 |
| \% Trucks | 3.4 | 3.4 | 3.4 |

Highway 96 Roadway System Management Snelling Avenue To 1st Avenue


Roadway Area Definition

## Results

Project Length: 7.846 miles
Project Area: 41.874 sq mi


Project
Project Area
5.5 L

For complete disclaimer of accuracy, please visit http://giswebsite.metc.state.mn.us/gissitenew/notice..aspx

Regional Economy Roadway System Management Project: RamseyCsah96 System Mgmt | Map ID: 1419963256568

## Results

Project WITHIN ONE MI of area of Job Concentration.

Project WITHIN ONE MI of area of Manufacturing and Distribution.

Project WITHIN ONE MI of area of Education Institutions.


## Project

Project Area
For complete disclaimer of accuracy, please visit
For complete disclaimer of accuracy, please vist
MEIROPOLITAN

November 26, 2014

Mr. Joseph Lux, Senior Planner
Ramsey County Public Works
1425 Paul Kirkwold Drive
Arden Hills, MN 55112-3933

## RE: STP System Management Funds Highway 96

## Dear Mr. Lux:

The City of Shoreview supports Ramsey County's federal STP System Management funding proposal for Highway 96. The City recognizes that the proposed improvements would be beneficial to both motorized and non-motorized modes of transportation in and around the Highway 96 Corridor.

Sincerely,

## CITY OF SHOREVIEW



Tom Wesolowski, P.E.
City Engineer

Socio-Economic Conditions Roadway System Management Project: RamseyCsah96 System Mgmt | Map ID: 1419963256568

## Results

Project IN area of above average concentration of race or poverty.


| $\square$ | Project |
| :--- | ---: |
| $\square$ | $\square$ |
|  | Project Area |
| $\square$ |  |

Racially concentrated area of poverty $\square$ Above reg'l avg conc of race/poverty Concentrated area of poverty

For complete disclaimer of accuracy, please visit For complete disclaimer of accuracy, please visit
http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx

Transit Connections Roadway System Management Project: RamseyCsah96 System Mgmt | Map ID: 1419963256568

Results
Transit with a Direct Connection to project: 62261262265275860
*indicates Planned Alignments


## Project

Project Area
For complete disclaimer of accuracy, please visit For complete disclaimer of accuracy, please visit
http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx

Mr. Joe Lux
Ramsey County Public Works Department
1425 Kirkwold Drive
Arden Hills, MN 55112

## Re: Support of STP System Management Grant Application for Highway 96

To Whom It May Concern:
The City of Vadnais Heights works closely with Ramsey County on a variety of transportation projects and strongly supports their efforts in securing STP System Management funds for Highway 96.

Highway 96 creates the north border of Vadnais Heights and is a critical roadway that serves our 12,500 residents. Highway 96 provides access to a multitude of businesses for their employees and patrons, as well as connection to both Interstate 35E and Interstate 35W. Highway 96 also connects to TH 61, TH 10 and Highway 49. It is the most important County roadway serving Vadnais Heights.

While the County does an excellent job of maintenance on Highway 96, there are several deficiencies that need to be addressed. The traffic signals located at our three intersections, as well as thru the entire corridor between I 35 E and W , are not properly interconnected to allow a free flow of traffic. County staff spends an inordinate amount of repair time on the dilapidated traffic signal control cabinets and controllers. The City has had great success with the permissive flashing yellow left turn indicators at other intersections and would like to see these installed along Highway 96. Both the City and the County frequently receive calls seeking improved traffic flow and turning movements along Highway 96. The existing pedestrian trail along the south side of Highway 96 is heavily used and is in need of improved audible signals, curb ramps and countdown timers.

The safe and efficient operation of Highway 96 is crucial to the region, particularly Vadnais Heights and the six other communities bordering it. We urge you to include Ramsey County's submittal in the STP System Management Grant Program. Please contact me if you have any questions or require further information.

Sincerely,

Kevin Watson, City Administrator
Vadnais Heights, Minnesota
CC: City Council

## Roadway Area Definition

## Results

Project Length: 7.556 miles
Project Area: 47.936 sq mi


Project
Project Area

For complete disclaimer of accuracy, please visit http://giswebsite.metc. state.mn.us/gissitenew/notice.aspx

Regional Economy Roadway System Management Project: Ramsey CSAH 96 System Management | Map ID: 1414697724083

## Results

Project WITHIN ONE MI of area of Job Concentration.

Project WITHIN ONE MI of area of Manufacturing and Distribution.

Project WITHIN ONE MI of area of Education Institutions.


## Project

Project Area
For complete disclaimer of accuracy, please visit
For complete disclaimer of accuracy, please visit

Socio-Economic Conditions Roadway System Management Project: Ramsey CSAH 96 System Management IMap ID: 1414697724083

## Results

Project IN area of above average concentration of race or poverty.


3:

| Direction | All |
| :--- | ---: |
| Volume (vph) | 5570 |
| Total Delay / Veh (s/v) | 91 |
| CO Emissions $(\mathrm{kg})$ | 13.27 |
| NOx Emissions $(\mathrm{kg})$ | 2.58 |
| VOC Emissions $(\mathrm{kg})$ | 3.08 |

3:

| Direction | All |
| :--- | ---: |
| Volume (vph) | 5570 |
| Total Delay / Veh (s/v) | 58 |
| CO Emissions $(\mathrm{kg})$ | 10.75 |
| NOx Emissions $(\mathrm{kg})$ | 2.09 |
| VOC Emissions $(\mathrm{kg})$ | 2.49 |

3:

| Direction | All |
| :--- | ---: |
| Volume (vph) | 5570 |
| Total Delay / Veh (s/v) | 91 |
| CO Emissions $(\mathrm{kg})$ | 13.27 |
| NOx Emissions $(\mathrm{kg})$ | 2.58 |
| VOC Emissions $(\mathrm{kg})$ | 3.08 |

3:

| Direction | All |
| :--- | ---: |
| Volume (vph) | 5570 |
| Total Delay / Veh (s/v) | 58 |
| CO Emissions $(\mathrm{kg})$ | 10.75 |
| NOx Emissions $(\mathrm{kg})$ | 2.09 |
| VOC Emissions $(\mathrm{kg})$ | 2.49 |

Transit Connections Roadway System Management Project: Ramsey CSAH 96 System Management | Map ID: 1414697724083

Results
Transit with a Direct Connection to project: 62261262265275285
*indicates Planned Alignments


## Project

Project Area
For complete disclaimer of accuracy, please visit
For complete disclaimer of accuracy, please visit
http://giswebsite.metc.state.mn.us/gissitenew/notice.aspx


[^0]:    If the applicant is completing a transit or TDM application, only Park-and-Ride and other construction projects require completion of the Risk Assessment below. Check the box below if the project does not require the Risk Assessment fields, and do not complete the remainder of the form. These projects will receive full points for the Risk Assessment.

