

The Saginaw Metropolitan Area Transportation Study



Transportation Improvement Program Ranking Method for Preservation and Capacity Improvement Projects

**FINAL
February 2006**

***Approved by the SMATS Transportation Planning Committee:
February 9, 2006***

***Approved by the Saginaw County Metropolitan Planning Commission:
February 21, 2006***

Approvals

The *Transportation Improvement Program Ranking Method for Preservation and Capacity Improvement Projects* that is presented in this document was approved as follows:

Approved by the Saginaw Metropolitan Area Transportation Study at a regular meeting on February 9, 2006.

Kenneth P. Bayne, Chairman
Transportation Planning Committee
Saginaw Metropolitan Area Transportation Study

Date

Approved by the Saginaw County Metropolitan Planning Commission at a regular meeting on February 21, 2006.

Timothy Courtney, Chairman
Saginaw County Metropolitan Planning Commission
Metropolitan Planning Organization

Date

INTRODUCTION

Prior to the Intermodal Surface Transportation Efficiency Act (ISTEA), MPO's would list every transportation improvement project in their Long Range Plan (LRP) and the Transportation Improvement Program (TIP). However, after the restrictions imposed by ISTEA, project selection has become more challenging. Project selection for the 3-year TIP has always been critical because listing a project in a TIP raises public expectations. Under ISTEA rules, TIPs have to be fiscally constrained and only those projects that have a reasonable expectancy of being funded appear in a 3-year TIP.

MPOs conduct public meeting and hearings where the public is informed about the project selection process and project listing for the TIP. Many important projects compete for the limited funds and selecting the most important project for a TIP is a challenging task. There are certain projects that do not qualify for the 3-year TIP, but have strong public support.

The Transportation Planning Committee (TPC) will utilize the TIP project prioritization criteria to objectively rank each project on its merit based on tangible performance measures. The MPO staff will apply the rank to the projects according to their importance within specific categories. ***The Metropolitan Planning Commission and Transportation Planning Committee should consider the TIP project prioritization criteria as a tool in decision making, but any decision should not be based solely on the ranking.*** In addition to the tangible performance measures contained in the TIP project ranking criteria, the committee members will be provided a summary of the comments received at the public meetings on the proposed projects for further evaluation.

GOALS

In keeping with Federal regulations, the MPO's goal is to include only those projects in a TIP that:

- Are supported by the public.
- Promote congestion management strategies.
- Promote access management strategies.
- Comply with Land Use Plans of local governments.
- Promote economic development.
- Enhance intermodal passenger and freight facilities.
- Ensure that air quality and natural resources such as wetlands and watersheds are preserved and protected.
- Meet the accessibility needs of the elderly and disabled.
- Promote development of tourist and recreation areas.
- Improve the overall condition of the transportation network.

Prioritization Process

A project will be considered eligible if it:

- Is included on the current National Functional Classification (NFC) map as a Federal Aid-eligible road and is classified as a collector or higher.
- Is in the Long Range Plan (LRP) project listing or recommended for such listing by the MPO staff and the Transportation Planning Committee. (projects that add capacity).

To receive Surface Transportation Project (STP) funds, projects will be categorized into the following two categories:

Preservation and Rehabilitation Projects: Rehabilitation and reconstruction of a facility without adding or widening through lanes.

Capacity Improvement Projects: Addition of through lanes or widening lanes that would improve the traffic carrying capacity of the street.

SCORING FOR PRESERVATION PROJECTS

The MPO staff will review all projects before presenting them to the Transportation Planning Committee (TPC) to determine their eligibility. Projects will be categorized based on the work description provided by the agencies. The projects will be assigned points on the basis of information provided on the project submittal form.

The Transportation Planning Committee (TPC) will make recommendations for public meetings and hearings based on the individual score of each project.

The following are the point values assigned to performance measures for preservation projects:

<i>Performance Measure</i>	<i>Points</i>
Road Safety	20
Road Condition	30
Inter-modal Connection/Economic Development	15
Land Use	15
Congestion Management	10
<u>Extra Project Benefits</u>	<u>10</u>
<i>Total Points Possible</i>	<i>100</i>

***Saginaw Metropolitan Area Transportation Study
Project Prioritization Submittal Form***

Preserve Project Application

Please Complete and Attach as a Front Cover to your Application

Application Agency: _____

Contact Person: _____

Phone/E-Mail: _____

Proposed Project Information

(Please attach commitment from local funding agency in the form of minutes and a Resolution of Support. This is required for eligibility)

Road Name _____

Point of Beginning _____

Point of End _____

Project length in Feet _____

Current Number of Lanes _____

Current Pavement Width _____

Current ADT _____

Description of Proposed Improvements: (attach additional pages if necessary)

Diagrams of the existing segment, intersection, or area drawn at an appropriate scale and in sufficient detail to describe the existing situation and proposed improvement.



Estimated Project Cost

Item	Total Cost	Federal Funds Requested	Local Match	Other Source of Funds (Y /N)	Funds Type & Amount
R.O.W	\$		(100%)		
Preliminary Engineering	\$	(80%) Max \$	(20%) Min		
Construction Engineering	\$	(80%)Max \$	(20%) Min		
Construction	\$	(80%) Max \$	(20%) Min \$		
Total Project Cost	\$	\$	\$		

Proposed Implementation Schedule

(Indicate beginning month / year and ending month / year for each activity)

Circle as many as needed Preferred Fiscal Year =1 Second Preferred year = 2	2006	2007	2008	2009	2010
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Item	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
R.O.W Acquisition												
Preliminary Engineering												
Construction Engineering												
Grade Inspection												
Bid Letting												
Construction												

SCORING SHEET

A. ROAD SAFETY

- 1) Does the proposed project separate pedestrian, bicycle, and vehicular modes?
No.....= 0 points
Yes.....= 1 to 5 points
- 2) Does the proposed project increase safety through pavement markings, lighting, signage, barriers, or increased skid resistance on smooth or fine textured pavements?
No.....= 0 points
Yes.....= 1 to 5 points
- 3) Does the proposed project include measures to help diminish crash severity and/or to help reduce accident rates?
No.....= 0 points
Yes.....= 1 to 10 points

B. ROAD CONDITION

- 1) What is the current PASER rating for the proposed segment of road?
- 10..... 0 points
9.....3 points
8..... 6 points
7..... 9 points
6.....12 points
5..... 15 points
4.....18 points
3.....22 points
2.....26 points
1.....30 points

C. INTER-MODAL CONNECTION / ECONOMIC DEVELOPMENT

- 1) Does the proposed project provide or improve freight access to the following modes of transportation within a one mile radius?
a) Air b) Water (port) c) Highway d) Rail
Any two or more modes.....= 5 points
Any one mode.....= 0 points
- 2) Does the proposed project provide or improve passenger access to the following listed facilities within a one mile radius?
a) Bus terminal (intercity) b) Intra city c) Air d) Highway e) Water

- Any three or more modes.....=10 points
- Any two modes.....= 5 points
- Any one mode.....= 0 points

D. LAND-USE

- 1) Is there multi-jurisdictional participation on the proposed project?
 - One jurisdiction participation.....= 0 points
 - Two or more jurisdiction participation.....= up to 5 points

- 2) Does the proposed project improve access to any of the following types of land uses within 0.5 mile radius?
 - a)Public Uses b)Commercial c)Residential d)Industrial
 - One land use.....= 0 points
 - Two land uses.....= 5 points
 - Three or more.....= 10 points

E. CONGESTION MANAGEMENT

- 1) Does the proposed project support any of the following congestion management (CM) strategies?
Check from the following list:
 - a)Intelligent Transportation System (ITS) b)Access Management (AM)
 - Project supports one of the CM strategy.....= 5 points
 - Project supports both CM strategies.....= 10 points

F. EXTRA PROJECT BENEFITS

Identify and explain additional funding to be committed to this project beyond minimum match or other benefits of this project which were not addressed in any of the above listed questions? As an example, a project that enhances non-motorized facilities would be considered an extra benefit. A project that alleviates noise, water, and/or light pollution. A project that improves visual environment with streetscaping. Project is related to an economic development strategy or community growth strategy.

- Project has no extra benefits.....= 0 points
- Project has extra benefits.....= up to 10 points

SCORING FOR CAPACITY PROJECTS

The MPO staff will review all projects before presenting them to the Transportation Planning Committee (TPC) to determine their eligibility. Projects will be categorized based on the work description provided by the agencies. The projects will be assigned points on the basis of information provided on the project submittal form.

The Transportation Planning Committee (TPC) will make recommendations for public meetings and hearings based on the individual score of each project.

The following are the point values assigned to performance measures for capacity projects:

<i>Performance Measure</i>	<i>Points</i>
Road Capacity (only scored for capacity projects)	25
Road Safety	20
Road Condition	30
Inter-modal Connection/Economic Development	15
Land Use	15
Congestion Management	10
<u>Extra Project Benefits</u>	<u>10</u>
<i>Total Points Possible</i>	<i>125</i>

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Project Prioritization Submittal Form***

Capacity Project Application

Please Complete and Attach as a Front Cover to your Application

Application Agency: _____

Contact Person: _____

Phone/E-Mail: _____

Proposed Project Information

(Please attach commitment from local funding agency in the form of minutes and a Resolution of Support. This is required for eligibility)

Road Name _____

Point of Beginning _____

Point of End _____

Project length in Feet _____

Description of Proposed Improvements: (attach additional pages if necessary)

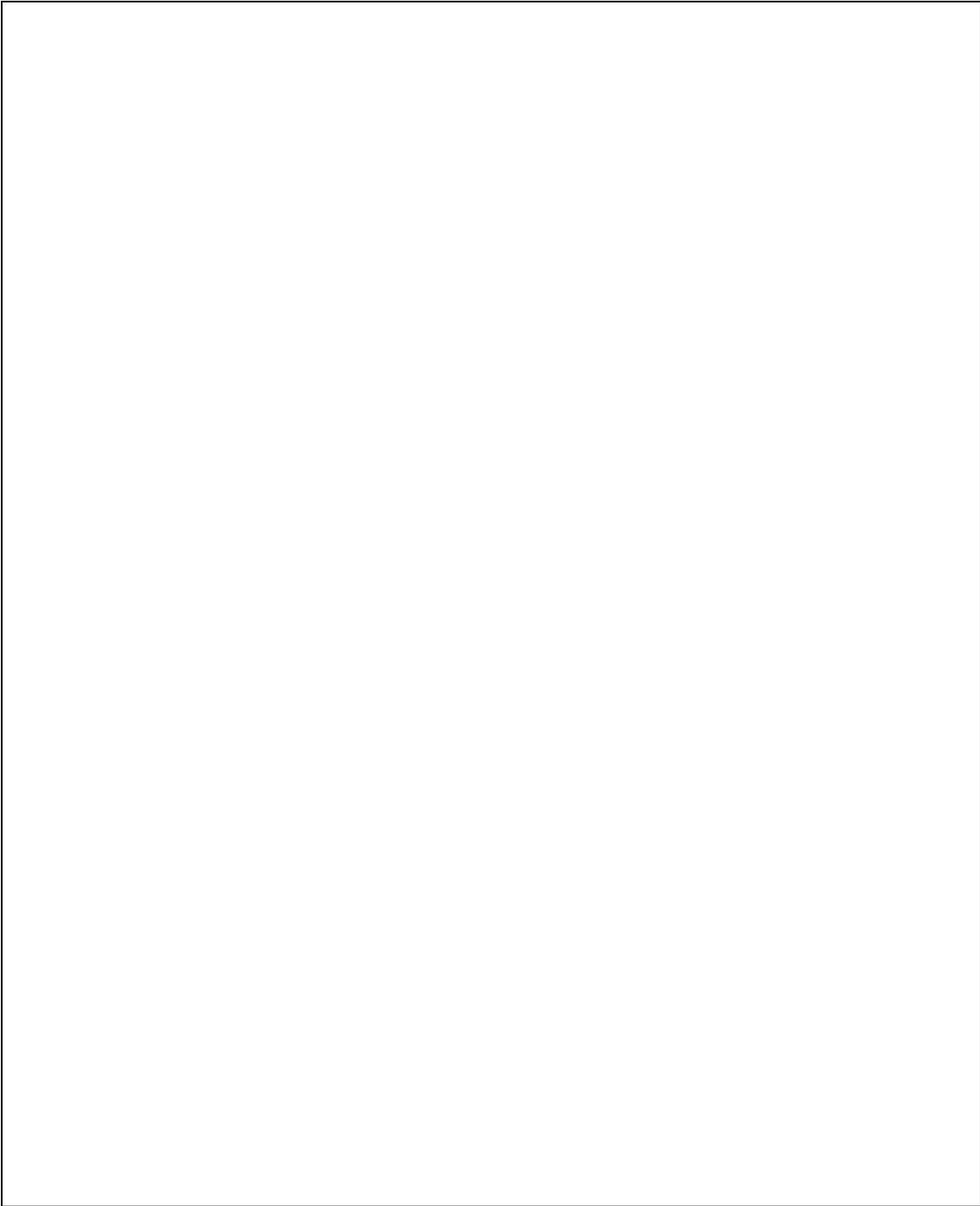
Proposed Number of Lanes _____

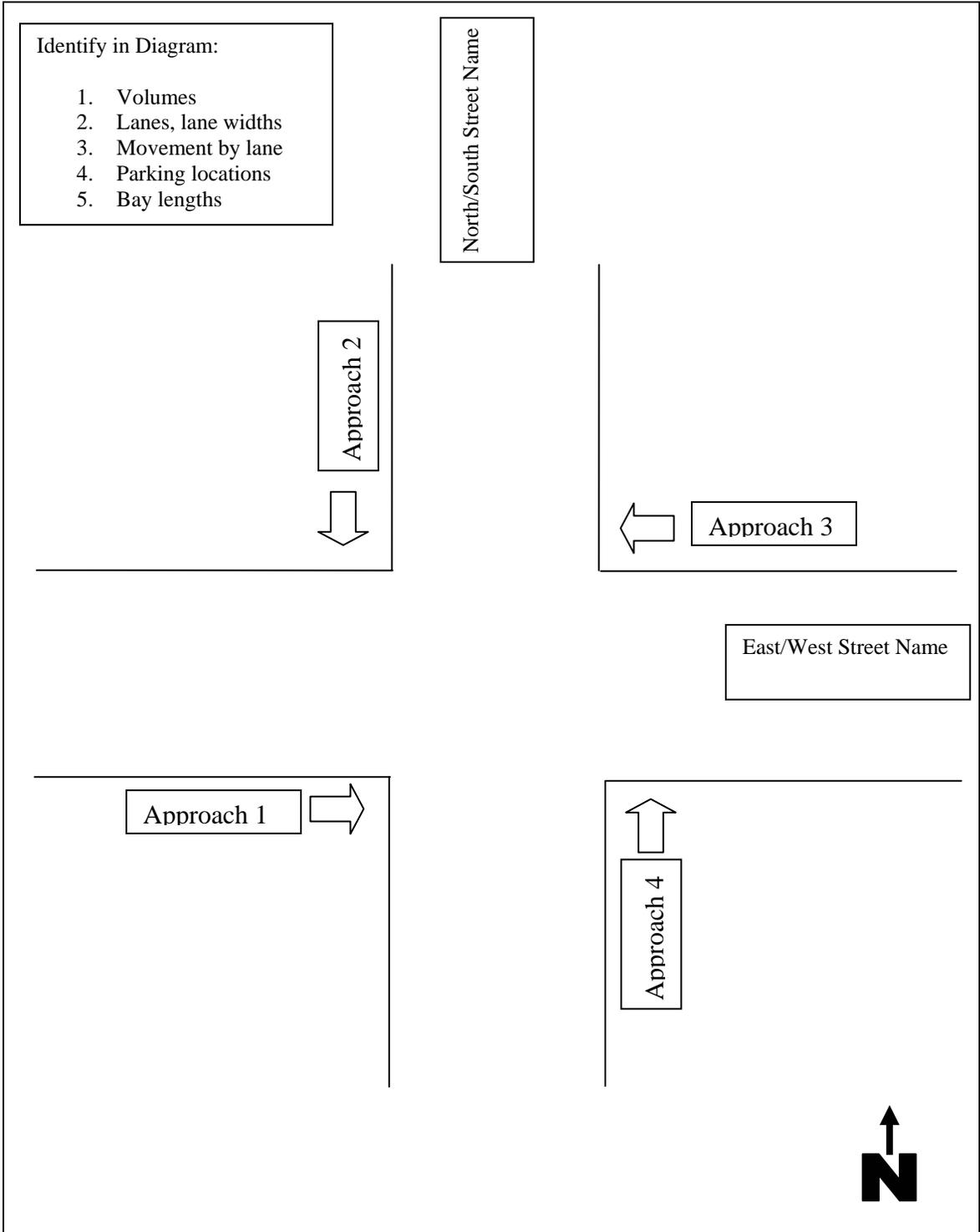
Proposed Pavement Width _____

Proposed Length of Right Turn Bay _____

Proposed Length of Left Turn Bay _____

Diagrams of the existing segment, intersection, or area drawn at an appropriate scale and in sufficient detail to describe the existing situation and proposed improvement.





Estimated Project Cost

Item	Total Cost	Federal Funds Requested	Local Match	Other Source of Funds (Y /N)	Funds Type & Amount
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Preliminary Engineering												
Construction Engineering												
Grade Inspection												
Bid Letting												
Construction												

SCORING SHEET

A. ROAD CAPACITY (Only applicable to capacity projects)

- 1) What is the current Volume to Capacity Ratio (V/C) during a weekday highest peak hour?
 (The volume is defined as the total number of vehicles that passes over a given point. The capacity of a roadway link is defined as the maximum number of vehicles which can pass a given point during a specified time period under prevailing road condition.)

0.0 < V/C < 0.25.....	= 0 points
0.26 < V/C < 0.5.....	= 5 points
0.51 < V/C < .75.....	= 10 points
.76 < V/C < 1.0.....	= 15 points
1.01 < V/C < 1.25.....	= 20 points
V/C > 1.25.....	= 25 points

B. ROAD SAFETY

- 1) Does the proposed project separate pedestrian, bicycle, and vehicular modes?
 No..... = 0 points
 Yes..... = 1 to 5 points
- 2) Does the proposed project increase safety through pavement markings, lighting, signage, barriers, or increased skid resistance on smooth or fine textured pavements?
 No..... = 0 points
 Yes..... = 1 to 5 points
- 3) Does the proposed project include measures to help diminish crash severity and/or to help reduce accident rates?
 No..... = 0 points
 Yes..... = 1 to 10 points

C. ROAD CONDITION

- 1) What is the current PASER rating for the proposed segment of road?
- | | |
|---------|-----------|
| 10..... | 0 points |
| 9..... | 3 points |
| 8..... | 6 points |
| 7..... | 9 points |
| 6..... | 12 points |
| 5..... | 15 points |
| 4..... | 18 points |
| 3..... | 22 points |
| 2..... | 26 points |
| 1..... | 30 points |

D. INTER-MODAL CONNECTION / ECONOMIC DEVELOPMENT

1) Does the proposed project provide or improve freight access to the following modes of transportation within a one mile radius?

- a) Air b) Water (port) c) Highway d) Rail

Any two or more modes.....= 5 points
Any one mode.....= 0 points

2) Does the proposed project provide or improve passenger access to the following listed facilities within a one mile radius?

- a) Bus terminal (intercity) b) Intra city c) Air d) Highway e) Water

Any three or more modes.....= 10 points
Any two modes.....= 5 points
Any one mode.....= 0 points

E. LAND-USE

1) Is there multi-jurisdictional participation on the proposed project?

One jurisdiction participation.....= 0 points
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Project supports one of the CM strategy.....= 5 points
Project supports both CM strategies.....= 10 points

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Identify and explain additional funding to be committed to this project beyond minimum match or other benefits of this project which were not addressed in any of the above listed questions? As an example, a project that enhances non-motorized facilities would be considered an extra benefit. A project that alleviates noise, water, and/or light pollution. A project that improves visual environment with streetscaping. Project is related to an economic development strategy or community growth strategy.

Project has no extra benefits.....= 0 points

Project has extra benefits.....= up to 10 points