APPLICATION FOR FUNDING CMAQ PROGRAM FYS 2008-2010

Date of Application	Application Number WisDOT Project ID Number			
March 12, 2007				
Project Title	Location(s) Served by Project			
Replacement of Independent Master	735 Signalized Intersections in the			
Clocks	City of Milwaukee			
Project Description - Project Limits	County/Counties Served by Project			
19 Intersections in the City of	Milwaukee			
Milwaukee				
Project Description Continued	Total Cost of Project (Including Local Match)			
	\$3,000,000			
Name and Address of Public Sponsor	Name, Telephone & Fax Numbers of Public Sponsor Contact			
City of Milwaukee	Jeffrey S. Polenske, PE			
Department of Public Works	City Engineer			
841 N. Broadway Rm. 701	Phone: (414) 286-2400			
Milwaukee, WI 53202	Fax: (414) 286-5994			
Other Organization(s) Involved in Project	Name, Telephone & Fax Numbers of Private Partner			
(e.g. Private Partner)				
Project Category/Categories	Sponsor's Metropolitan Planning Organization Area			
☐ Public Transportation	X Southeastern WI Regional Planning Commission			
☐ Bicycle/Pedestrian	(SEWRPC)			
☐ Car and Vanpooling	☐ Bay-Lake Regional Planning Commission (BLRPC) -			
☐ Park & Ride Lot	only for Sheboygan Metropolitan Planning Area			
X Traffic Flow Improvement (e.g. System Signalization)	☐ Non Metropolitan Planning Area			
☐ Alternative Fuels				
☐ Other (Please Describe, e.g., Diesel Retrofit):				

Project Description - Be Brief But Complete

1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application.

This project involves the replacement of the 19 independent master clocks that are used by the City of Milwaukee to synchronize the City's 735 traffic signals. The existing time base master clocks will be replace by advanced traffic controllers (ATC) that are capable of intercommunication and have far more capabilities. To enable the use of the advance features of the ATC, enhanced communication cable will be installed into each of the 19 new ATC units from the City of Milwaukee's engineering office and signal maintenance facility. To enable communication from the engineering office and maintenance facility, software communication programs will be purchased and installed in the office and maintenance facility microcomputers and each of the 19 ATC units.

Coordination of all traffic signals under the jurisdiction of the City of Milwaukee will improve the efficiency of the entire roadway and transit transportation system. Installation of the new ATC controllers and communication system will allow the implementation of unexpected special event or incident based timing plans from office locations, instead of sending a technician out to specific locations.

The use of ATC units to control the City's signal system will provide many future improvements to Southeastern Wisconsin's transportation system due to the flexibility of the communication interface of the ATC unit. Since the ATC uses the National

Transportation Communication Intermodal Protocol (NTCIP), and future transportation improvement projects will be compatible and adaptable to the ATC. In particular, the City is in the process of engineering an adaptive signal system which will be fully compatible with the ATC. In addition the City is participating in two other major interjurisdictional projects know as the Integrated Corridor Improvement (ICOP) Project and Traffic Incident Management Enhancements (TIME). Any improvements made under these project initiatives will be completely compatible with the ATC units and in fact will be complimentary.

2. Why is the project necessary? How will it contribute to improving air quality?

By eliminating the common problem of timing drift between the independent TBC clocks currently used to coordinate the City's signal system, all of the City's signals will be coordinated by a common reference point. Currently, the City of Milwaukee's signal system is composed of 19 different subsystems, and there is no guarantee of coordination between the subsystems.

Coordination of traffic signals has been shown to reduce the number of vehicular stop/start cycles, reduce idling time, and reduce fuel consumption of vehicles. All of these efforts have been shown to reduce harmful emissions from these vehicles.

3. Realistically, how much use will this facility or service get?

The project includes 467.12 miles of roadway with over 6 million vehicle miles of travel (VMT). The speeds on affected links may increase from 18 miles per hour to a range of 20 to 25 miles per hour.

- 4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner? The City of Milwaukee plans to let the design of the project in 2008. Upon the completion of the design, the City and the contractor will undertake the installation and testing of all controller, communication, and other equipment used in the project in 2009-2010 with the project being fully implemented by 2010. The City will oversee the design process to ensure that all tasks are performed in a timely manner.
- 5. What obstacles or problems must be overcome to implement this project?

The City of Milwaukee must ensure that all hardware and software can be integrated into the system and that all communication devices work as programmed.

6. What will make this project a success?

The proposed project will ensure that all 19 master clocks in the City of Milwaukee will be coordinated with one another, reducing the effects of drift in the individual clocks and ensuring traffic flow between these individual subsystems is not disrupted. Coordination of traffic signals has been shown to reduce the number of vehicular stop/start cycles, reduce idling time, and reduce fuel consumption of vehicles. All of these efforts have been shown to reduce harmful emissions from these vehicles.

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Project Cost Estimate & Timetable¹ Year 1 Year 2

Year 1

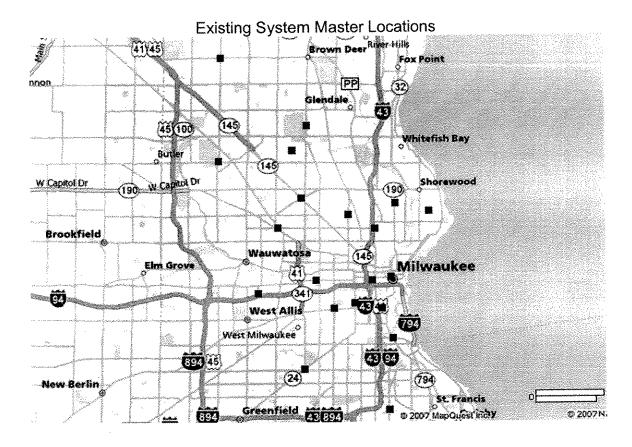
Item

Year 3

	Information Be	low to Be Co	mpleted by the Wi	sDOT Region Office			
Environmental Document Type		Improvement Type		Program Year			
Primary ID	Related ID's	. I		Program CMAQ			
Responsible Projects G	roup		Project Superv	isor			
		WisDOT	Region Approvals	5			
Team Leader Approval		Date	Group Manage	r Concurrence	Date		
Programming Team Ap	proval	Date	Systems Plann	ing Manager Concurrence	Date		

PLEASE ATTACH A SITE MAP, PHOTOGRAPHS, OR ANY OTHER GRAPHICS THAT WILL ASSIST THE SELECTION COMMITTEE IN UNDERSTANDING THE LOCATION AND NATURE OF THE PROPOSED PROJECT.

PROJECT LOCATION MAP



APPLICATION FOR FUNDING CMAQ PROGRAM FYs 2008-2010

Date of Application	Application Number WisDOT Project ID Number		
February 26, 2007			
Project Title	Location(s) Served by Project		
Installation of Coordinated	Corridors and areas bounded by the		
Traffic Signals at six All-Way	project		
Stop Controlled Locations			
Project Description - Project Limits	County/Counties Served by Project		
W. Howard Av. at S. 43rd St., S.	Milwaukee		
51^{st} St., and S. 68^{th} St., and S.			
84^{th} St., W. Keefe Av. and N. 51^{st}			
Blvd., and N. Humboldt Av. and N.			
Kane Pl.			
Project Description Continued	Total Cost of Project (Including Local Match)		
	\$390,000		
Name and Address of Public Sponsor	Name, Telephone & Fax Numbers of Public Sponsor Contact		
City of Milwaukee	Jeffrey S. Polenske, PE		
841 N. Broadway Rm. 701	City Engineer		
Milwaukee, WI 53202	Phone: (414) 286-2400		
	Fax: (414) 286-5994		
Other Organization(s) Involved in Project	Name, Telephone & Fax Numbers of Private Partner		
(e.g. Private Partner)			
	Communication Area		
Project Category/Categories	Sponsor's Metropolitan Planning Organization Area X Southeastern WI Regional Planning Commission		
☐ Public Transportation	(SEWRPC)		
☐ Bicycle/Pedestrian ☐ Car and Vanpooling	Bay-Lake Regional Planning Commission (BLRPC) -		
☐ Park & Ride Lot	only for Sheboygan Metropolitan Planning Area		
X Traffic Flow Improvement (e.g. System Signalization)	□ Non Metropolitan Planning Area		
A frame Flow improvement (e.g. System Signanzation)	in the trepolitan i aming the		
☐ Other (Please Describe, e.g., Diesel Retrofit):			
- Chief (1 least Describe, e.g., Dieser Readily.			
Decired Description			

Project Description - Be Brief But Complete

1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application.

The project includes the installation of six coordinated traffic signals at all-way stop controlled intersections. The City of Milwaukee plans to undertake the design, installation, operation, and maintenance of six traffic signals at the subject locations.

2. Why is the project necessary? How will it contribute to improving air quality?

The City of Milwaukee proposes to install six coordinated traffic signals at all-way stop controlled intersections that are warranted and are located within or adjacent to existing signal systems. The current all-way stop control unnecessarily increases delay and congestion, wasting fuel and increasing emissions, and reduces the number of safe pedestrian gaps at nearby uncontrolled locations.

The installation of the six coordinated traffic signals at the subject intersections will reduce vehicle delay and increase the number of safe pedestrian gaps at nearby uncontrolled locations to encourage additional pedestrian trips.

3. Realistically, how much use will this facility or service get?

The current entering volumes at the six locations vary from 14,300 to 20,300.

- 4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

 The City of Milwaukee plans to undertake design in 2008, with construction in 2009.
- 5. What obstacles or problems must be overcome to implement this project?
 None

6. What will make this project a success?

The proposed installation of six coordinated traffic signals will reduce congestion at the six subject intersections by providing coordinated operation within or adjacent to existing traffic signal systems, replacing the existing all-way stop control. In addition, the coordinated traffic signals will provide additional gaps in traffic at nearby uncontrolled locations to encourage additional pedestrian trips.

	Project Cos	t Estimate & Timetable ¹	
Item	Year 1	Year 2	Year 3
Engineering & Design ²	\$ 40,000	\$	\$
State Design Review ³	\$	\$	\$
Real Estate & Easements	\$	\$	\$
Utility Relocation	\$	\$	\$
Construction	\$	\$	\$
Bridges & Buildings	\$	\$	\$
Landscaping	\$	\$	\$
Railroad Signals/Crossings	\$	\$	\$
Traffic Control Devices	\$	\$ 350,000	\$
Operation & Maintenance	\$	\$	\$
Marketing & Promotion	\$	\$	\$
Other: e.g. transit operating	\$	\$	\$
Other: e.g. transit capital	\$	\$	\$
Other:	\$	\$	\$
Subtotal	\$	\$	\$
Contingencies & Constr Mgt*	\$	\$	\$
Total Company of the Company			
Local Share ⁵	\$ 8,000	\$ 70,000	\$
Federal Share ⁶	\$ 32,000	\$ 280,000	

Typically design is done in Year 1, real estate acquisition in Year 2, and construction in Year 3. Engineering/Design cost is typically 15% to 20% of the construction cost. State design review is typically 3% of construction cost, minimum \$5,000. This covers plan review, bid advertisement, and printing/mailing of plan sets to potential bidders. This cost applies only to projects that will be let and administered by WisDOT. Contingencies and construction management are typically budgeted at 15% of the Subtotal. Local share for this program is normally 20%. Federal share for this program is normally 80%.							
Please affirm your understanding of the following project conditions by initialing in the spaces provided:							
A. Private organizations proposing projects generally must have a public sponsor (a local gov unit or transit operator).	ernment						
B. The project sponsor or private partner must provide matching dollar funding of at least 20	% of						
project costs.							
C. This is a reimbursement program. The applicant organization must finance the project until Federal reimbursement funds are available.							
D. The applicant must fund project costs in excess of the amounts indicated in the above Project.	ect Cost						
Estimate (i.e. cost overruns) at no expense to State/Federal funding sources.							
E. Projects must be designed and constructed in accordance with all applicable federal and sta	ate						
requirements, including but not limited to those on page 13 of the application.							
If the public sponsor is submitting more than one application, prioritize this project here (e.g., 1 of 5):							
of							
I hereby certify that the above statements are true and complete							
to the best of the applicant's knowledge and understanding. Name of Applicant Organization							
City of Milwaukee							
Name of Signer (Printed Clearly)							
Jeffrey S. Polenske, P.E. City Engineer							
Signature Date							
Information Below to Be Completed by the WisDOT Region Office							
Environmental Document Type Improvement Type Program Year							
Primary ID Related ID's Program CMAQ							
Responsible Projects Group Project Supervisor	***************************************						
WisDOT Region Approvals							
Team Leader Approval Date Group Manager Concurrence Date							
Programming Team Approval Date Systems Planning Manager Concurrence Date							

PLEASE ATTACH A SITE MAP, PHOTOGRAPHS, OR ANY OTHER GRAPHICS THAT WILL ASSIST THE SELECTION COMMITTEE IN UNDERSTANDING THE LOCATION AND NATURE OF THE PROPOSED PROJECT.

PROJECT LOCATION MAP



■ Proposed Signal Location

APPLICATION FOR FUNDING CMAQ PROGRAM FYs 2008-2010

Date of Application	Application Number	WisDOT Project ID Number	
February 26, 2007			
Project Title	Location(s) Served by Project		
Computer Optimization of 34	Bay View neighborhood of the City		
Traffic Signals in Bay View - City	of Milwaukee		
of Milwaukee			
Project Description - Project Limits	County/Counties Served by Pro	ject	
Area bounded by Superior St.,	Milwaukee		
Bolivar Av., 6 th St., and Bay St.			
Project Description Continued	Total Cost of Project (Including Local Match)		
	\$51,000		
Name and Address of Public Sponsor	Name, Telephone & Fax Number		
City of Milwaukee	Jeffrey S. Polenske, PE		
841 N. Broadway Rm. 701	City Engineer		
Milwaukee, WI 53202	Phone: (414) 286-	2400	
	Fax: (414) 286-59	94	
Other Organization(s) Involved in Project	Name, Telephone & Fax Number	ers of Private Partner	
(e.g. Private Partner)			
	İ		
Project Category/Categories	Sponsor's Metropolitan Plannin		
☐ Public Transportation	X Southeastern WI Regions	al Planning Commission	
☐ Bicycle/Pedestrian	(SEWRPC)	-i Commission (BLBBC)	
☐ Car and Vanpooling ☐ Park & Ride Lot		ning Commission (BLRPC) -	
	only for Sheboygan Metropolitan Planni	<u>~</u>	
X Traffic Flow Improvement (e.g. System Signalization)	☐ Non Metropolitan Planni	ng Aica	
☐ Other (Please Describe, e.g., Diesel Retrofit):			
a Ouici (ricase Describe, e.g., Dieser Retionit):			

Project Description - Be Brief But Complete

1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application.

The project includes the computerized signal optimization of the 34 traffic signals in the Bay View neighborhood of the City of Milwaukee. The City of Milwaukee plans to undertake data collection, modeling creation, model calibration and optimization, and implementation of timing and phasing changes.

2. Why is the project necessary? How will it contribute to improving air quality?

The proposed improvements will ensure the most efficient operation of 34 traffic signals in the Bay View neighborhood. The traffic volumes and traffic patterns have experienced dramatic changes since the opening of the Lake Parkway (STH 794) in 1999 through the neighborhood.

By computer optimizing traffic signal timing and phasing, the City of Milwaukee will provide the most efficient operation of the traffic signals to minimize vehicle emissions and reduce fuel consumption by minimizing vehicle stops and idling time.

3. Realistically, how much use will this facility or service get?

The major roadways in the project have AADT varying from 25,900 to 4,100 on E. Oklahoma Av., from 25,600 to 13,900 on E. Howard Av., from 24,100 to 16,900 on S. Chase Av./S. Howell Av. (STH 38), and from 14,300 to 9,300 on S. Kinnickinnic Av. (STH 32). Within the project limits, the weekday VMT are: E. Oklahoma Av. - 28,000, E. Howard Av. - 26,000, S. Chase Av./S. Howell Av. (STH 38) - 32,000, and S. Kinnickinnic Av. - 15,000.

- 4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

 The City of Milwaukee plans to undertake data collection and in 2007-08, with model creation, calibration, optimization, and implementation in 2008-09.
- 5. What obstacles or problems must be overcome to implement this project?

 None

6. What will make this project a success?

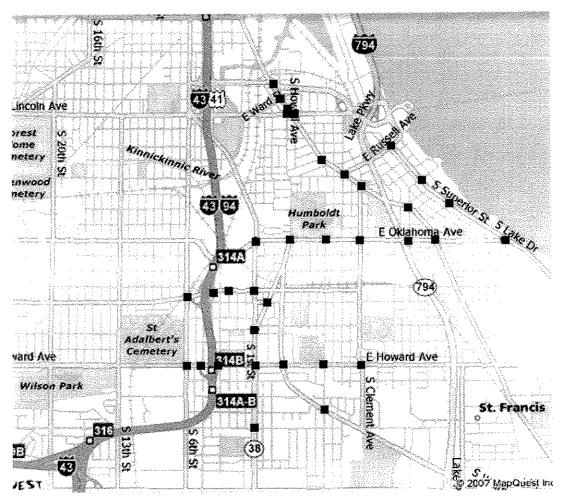
The proposed computer optimization of the 34 traffic signals will reduce vehicle emissions, reduce fuel consumption, and ensure more efficient flow of traffic throughout the neighborhood following the opening of the Lake Parkway (STH 794).

	Project Cos	t Estimate & Timetable¹	
Item	Year 1	Year 2	Year 3
Engineering & Design ²	\$ 17,000	\$ 17,000	\$ 8,000
State Design Review ³	\$	\$	\$
Real Estate & Easements	\$	\$	\$
Utility Relocation	\$	\$	\$
Construction	\$	\$	\$
Bridges & Buildings	\$	\$	S
Landscaping	\$	\$	\$
Railroad Signals/Crossings	\$	\$	S
Traffic Control Devices	\$	\$	\$ 9,000
Operation & Maintenance	\$	\$.	\$.
Marketing & Promotion	\$	\$	\$
Other: e.g. transit operating	\$	\$	\$
Other: e.g. transit capital	\$	\$	<u> </u>
Other:	\$	\$	<u> </u>
Subtotal	\$	\$	\$
Contingencies & Constr Mgt ⁴	\$	S	\$
Total	5	Control of the second s	406 9 5
Local Share ⁵	\$ 3,400	\$ 3,400	\$ 3,400
Federal Share [®]	\$ 13,600	\$ 13,600	\$ 13,600

 Typically design is done in Year 1, real estate acquisition in Year 2, and construction in Year 3. Engineering/Design cost is typically 15% to 20% of the construction cost. State design review is typically 3% of construction cost, minimum \$5,000. This covers plan review, bid advertisement, and printing/mailing of plan sets to potential bidders. This cost applies only to projects that will be let and administered by WisDOT. Contingencies and construction management are typically budgeted at 15% of the Subtotal. Local share for this program is normally 20%. Federal share for this program is normally 80%. Please affirm your understanding of the following project conditions by initialing in the spaces provided: 						
Please affirm your understand	ling of the followi	na project condition	s by initialing in the spac	es provide	ed:	
A. Private org	ganizations pro	posing projects g	enerally must have a	public sp	onsor (a loca	al government
unit or tran	sit operator).					
B. The project	t sponsor or p	rivate partner mu	st provide matching d	ollar fun	ding of at lea	ast 20% of
project cos	project costs.					
C. This is a re	eimbursement	program. The ap	plicant organization	must fina	nce the proje	ect until Federal
	nent funds are		•			
D. The applic	ant must fund	project costs in e	excess of the amounts	indicated	l in the above	e Project Cost
Estimate (i	.e. cost overru	ins) at no expense	to State/Federal fun-	ding sour	ces.	
E. Proiects m	ust be designe	d and constructed	in accordance with a	all applica	able federal a	and state
requiremen	nts, including b	out not limited to	those on page 13 of t	he applic	ation.	
If the public sponsor is submit	requirements, including but not limited to those on page 13 of the application. If the public sponsor is submitting more than one application, prioritize this project here (e.g., 1 of 5):					
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	haraby cartify	that the above s	tatements are true a	nd comr	lete	
*	to the best of	the applicant's l	knowledge and unde	rstandin	ig.	:
to the best of the applicant's knowledge and understanding. Name of Applicant Organization						
City of Milwauk						
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In	formation Bel		ited by the WisDOT	Region C)ffice	
Environmental Document Type		Improvement Type		Program	Year	
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Primary ID	Related ID's				Program	
					CMAQ	
Responsible Projects Group			Project Supervisor			
			ion Approvals			-
			Group Manager Concu	rrence		
Team Leader Approval		Date	Group Manager Correct			Date
Team Leader Approval		Date	Group Mariager Correct			Date
	i				currence	Date
Team Leader Approval Programming Team Approva	ĺ	Date	Systems Planning Man		currence	

PLEASE ATTACH A SITE MAP, PHOTOGRAPHS, OR ANY OTHER GRAPHICS THAT WILL ASSIST THE SELECTION COMMITTEE IN UNDERSTANDING THE LOCATION AND NATURE OF THE PROPOSED PROJECT.

Project Location Map



Signal Location

APPLICATION FOR FUNDING CMAQ PROGRAM FYs 2008-2010

Date of Application	Application Number	WisDOT Project ID Number	
February 26, 2007			
Project Title	Location(s) Served by Project		
Computer Optimization of 74		as bounded by the	
Traffic Signals on E./W. Capitol	project		
Dr. (STH 190) and W. Fond du Lac			
Av. (STH 145)			
Project Description - Project Limits	County/Counties Served by Pro	ject	
E./W. Capitol Dr. (STH 190) and W.	Milwaukee		
Fond du Lac Av. (STH 145)			
corridors in the City of Milwaukee			
Project Description Continued	Total Cost of Project (including Local Match)		
	\$111,000 Name, Telephone & Fax Number	and Dublic Spanger Contact	
Name and Address of Public Sponsor	Jeffrey S. Polens		
City of Milwaukee		Ke, IL	
841 N. Broadway Rm. 701	City Engineer	2400	
Milwaukee, WI 53202	Phone: (414) 286-2400		
	Fax: (414) 286-59 Name, Telephone & Fax Numb	ore of Private Partner	
Other Organization(s) Involved in Project (e.g. Private Partner)	Name, relephone & Fax Numb	ers of intrate i armer	
(e.g. r nvale r artier)			
Project Category/Categories	Sponsor's Metropolitan Plannin	g Organization Area	
☐ Public Transportation	X Southeastern WI Region	al Planning Commission	
☐ Bicycle/Pedestrian	(SEWRPC)		
☐ Car and Vanpooling		ning Commission (BLRPC) -	
☐ Park & Ride Lot	only for Sheboygan Metrop		
X Traffic Flow Improvement (e.g. System Signalization)	☐ Non Metropolitan Planni	ng Area	
☐ Alternative Fuels]		
☐ Other (Please Describe, e.g., Diesel Retrofit):	Verification of the Control of the C		

Project Description - Be Brief But Complete

1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application.

The project includes the computerized signal optimization of the 74 traffic signals along the W. Capitol Dr. (STH 190) and W. Fond du Lac Av. (STH 145) corridors in the City of Milwaukee. The City of Milwaukee plans to undertake data collection, modeling creation, model calibration and optimization, and implementation of timing and phasing changes.

2. Why is the project necessary? How will it contribute to improving air quality?

The proposed improvements will ensure the most efficient operation of 74 traffic signals along the W. Capitol Dr. (STH 190) and W. Fond du Lac Av. (STH 145) corridors in the City of Milwaukee.

By computer optimizing traffic signal timing and phasing, the City of Milwaukee will provide the most efficient operation of the traffic signals to minimize vehicle emissions and reduce fuel consumption by minimizing vehicle stops and idling time.

3. Realistically, how much use will this facility or service get?

E./W. Capitol Dr. (STH 190) has AADT which varies from 47,900 to 26,500 and W. Fond du Lac Av. (STH 145) has AADT which varies from 34,900 to 16,800. Within the project limits, the weekday VMT on W. Capitol Dr. is 234,000 and the weekday VMT on W. Fond du Lac Av. is 148,000.

4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

The City of Milwaukee plans to undertake data collection and in 2007-08, with model creation, calibration, optimization, and implementation in 2008-09.

5. What obstacles or problems must be overcome to implement this project? None

6. What will make this project a success?

The proposed computer optimization of the 74 traffic signals will reduce vehicle emissions, reduce fuel consumption, and ensure more efficient flow of traffic along the E./W. Capitol Dr. (STH 190) and W. Fond du Lac Av. (STH 145) corridors in the City of Milwaukee.

	Project Cos	t Estimate & Timetable¹	
Item	Year 1	Year 2	Year 3
Engineering & Design ²	\$ 37,000	\$ 37,000	\$ 18,000
State Design Review ³	\$	\$	\$
Real Estate & Easements	\$	\$	\$
Utility Relocation	\$	\$	\$
Construction	\$	\$	\$
Bridges & Buildings	\$	\$	\$
Landscaping	\$	\$	\$
Railroad Signals/Crossings	\$	\$	\$
Traffic Control Devices	\$	\$	\$ 19,000
Operation & Maintenance	\$	\$	\$
Marketing & Promotion	\$	\$	\$
Other: e.g. transit operating	\$	\$	S
Other: e.g. transit capital	\$	\$	\$
Other:	\$	\$	<u> </u>
Subtotal	S	\$	\$
Contingencies & Constr Mgt4	\$	\$	\$
Total		\$	\$
Local Share ⁵	\$ 7,400	\$ 7,400	\$ 7,400
Federal Share®	\$ 29,600	\$ 29,600	\$ 29,600

 Typically design is done in Year 1, real estate acquisition in Year 2, and construction in Year 3. Engineering/Design cost is typically 15% to 20% of the construction cost. State design review is typically 3% of construction cost, minimum \$5,000. This covers plan review, bid advertisement, and 						
printing/mailing of plan sets to potential bidders. This cost applies only to projects that will be let and administered by WisDOT. Contingencies and construction management are typically budgeted at 15% of the Subtotal.						
Local share for this program	is normally 20%	١.				
Federal share for this programmer.	am is normally 80	0%.				
Please affirm your understand	ing of the followir	ng project condition	s by initialing in the space	es provide	ed: 	Lacricamentant
		posing projects g	enerally must have a	public s	ponsor (a toca	ii goveriiinent
unit or tran	sit operator).	• ,		lallan firm	ding of at loa	nt 200% of
B. The project project cost		ivate partner mu	st provide matching d	ionai iui	iding of at ica	St 20 /6 01
C. This is a re	imbursement r	orogram. The ar	plicant organization	must fina	ance the proje	ct until Federal
reimbursen	nent funds are	available.				
D. The application	ant must fund	project costs in e	excess of the amounts	imicated	in the above	Project Cost
Estimate (i.	e. cost overru	ns) at no expense	to State/Federal fun-	ding sou	rces.	
E. Projects m	ist be designed	l and constructed	in accordance with a	all applic	able federal a	nd state
requiremen	ts, including b	ut not limited to	those on page 13 of t	he applic	cation.	
If the public sponsor is submitting more than one application, prioritize this project here (e.g., 1 of 5):						
of						
III	ereby certify	that the above s	tatements are true a knowledge and unde	nd comp	olete oa	
Name of Applicant Organization		tile applicant 5	VIIOMIEGA BIIG BIIG	,, <u>, , , , , , , , , , , , , , , , , ,</u>		
City of Milwauk						
Name of Signer (Printed Clear		under zu zuen de Scheneiteren (de 2004) (Abertzepen einen einen Ausstelle Beneiten de	Title	ranna ar amanna ar ar a la la a	pane de se en 1900 en 1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900 (1900	\$2794479844444979444444444444444444444444
Jeffrey S. Pole		• •	City Engine	eer		
Signature			Date	m->		
			ted by the WisDOT			
Environmental Document Type		Improvement Type		Program	Year	
Primary ID	Related ID's				Program	
					CMAQ	
Responsible Projects Group			Project Supervisor			
		WisDOT Reg	ion Approvals			
Team Leader Approval		Date	Group Manager Concu	rrence		Date
Programming Team Approval		Date	Systems Planning Man	ager Con	currence	Date
			_			

PLEASE ATTACH A SITE MAP, PHOTOGRAPHS, OR ANY OTHER GRAPHICS THAT WILL ASSIST THE SELECTION COMMITTEE IN UNDERSTANDING THE LOCATION AND NATURE OF THE PROPOSED PROJECT.

Signal Location

APPLICATION FOR FUNDING CMAQ PROGRAM FYs 2008-2010

Date of Application	Application Number WisDOT Project ID Number		
February 26, 2007			
Project Title	Location(s) Served by Project		
Installation of Pedestrian	Corridors and areas bounded by the		
Countdown Timers at 325 Signalized	project		
Locations			
Project Description - Project Limits	County/Counties Served by Project		
325 Intersections in the City of	Milwaukee		
Milwaukee			
Project Description Continued	Total Cost of Project (Including Local Match)		
	\$2,250,000		
Name and Address of Public Sponsor	Name, Telephone & Fax Numbers of Public Sponsor Contact		
City of Milwaukee	Jeffrey S. Polenske, PE		
841 N. Broadway Rm. 701	City Engineer		
Milwaukee, WI 53202	Phone: (414) 286-2400		
	Fax: (414) 286-5994		
Other Organization(s) Involved in Project	Name, Telephone & Fax Numbers of Private Partner		
(e.g. Private Partner)			
Project Category/Categories	Sponsor's Metropolitan Planning Organization Area		
☐ Public Transportation	X Southeastern WI Regional Planning Commission		
X Bicycle/Pedestrian	(SEWRPC)		
☐ Car and Vanpooling	Bay-Lake Regional Planning Commission (BLRPC)		
☐ Park & Ride Lot	only for Sheboygan Metropolitan Planning Area		
☐ Traffic Flow Improvement (e.g. System Signalization)	☐ Non Metropolitan Planning Area		
☐ Alternative Fuels			
☐ Other (Please Describe, e.g., Diesel Retrofit):			

Project Description - Be Brief But Complete

1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application.

The project includes the installation of pedestrian countdown timers with 12" combination LED "Walk/Don't Walk" housings at 325 signalized intersections in the City of Milwaukee that have been identified at crossing of 75' or wider and in commercial districts, along major bus routes, near schools, or near other major pedestrian generators. The work will be performed by City staff. The project will provide pedestrians with the length remaining on the flashing "Don't Walk" pedestrian phase and provide larger and brighter 12" LED "Walk/Don't Walk" symbol housings to replace existing 9" and 12" incandescent text and symbol "Walk/Don't Walk" housings.

2. Why is the project necessary? How will it contribute to improving air quality?

The proposed installation of pedestrian countdown timers with 12" LED "Walk/Don't Walk" housings will provide pedestrians with the time remaining on the flashing "Don' Walk" phase. This will encourage additional pedestrian trips Citywide at locations where the pedestrian crossings can be long (75' or longer) and intimidating to pedestrians, particularly children and the elderly. In addition, the larger and brighter 12" "Walk/Don't Walk" symbol housings will be more visible to pedestrians. These installations will increase pedestrian safety,

comfort, and security at longer and higher vehicle volume pedestrian crossings Citywide.

3. Realistically, how much use will this facility or service get?

The 325 signalized intersections selected in the City of Milwaukee were identified at crossings of 75' or wider and in commercial districts, along major bus routes, near schools, or near other major pedestrian generators. These locations have the highest number of pedestrians crossing.

The installation of pedestrian countdown timers with 12" combination "Walk/Don't Walk" housings will reduce the number of vehicle trips Citywide, reducing emissions and reducing fuel consumption, by encouraging more pedestrian trips at locations where pedestrians may be discouraged from crossing because of the width of the roadway.

- 4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

 The City of Milwaukee plans to undertake design in 2008, with construction in 2009.
- 5. What obstacles or problems must be overcome to implement this project?
 None

6. What will make this project a success?

The proposed installation will increase the number and frequency of pedestrian trips in commercial districts, along major bus routes, near schools, or near other major pedestrian generators by providing the length remaining on the flashing "Don't Walk" and by using brighter LED 12" "Walk/Don't Walk" symbols.

	Project Cos	t Estimate & Timetable ¹	
Item	Year 1	Year 2	Year 3
Engineering & Design ²	\$ 250,000	\$	<u> </u>
State Design Review ³	\$	\$	\$
Real Estate & Easements	\$	\$	§ \$
Utility Relocation	\$	\$	\$
Construction	\$	\$	<u> </u>
Bridges & Buildings	\$	\$	\$
Landscaping	\$	\$	\$
Railroad Signals/Crossings	\$	\$	\$
Traffic Control Devices	\$	\$ 2,000,000	\$
Operation & Maintenance	\$	\$	S
Marketing & Promotion	\$	\$	\$
Other: e.g. transit operating	\$	\$	\$
Other: e.g. transit capital	\$	\$	\$
Other:	\$	\$	\$
Subtotal	\$	state of the state	S
Contingencies & Constr Mgt*	\$		\$
Total	S	\$ 100	ACCOUNTS TO SECURITY
Local Share ⁵	\$ 50,000	\$ 400,000	\$
Federal Share ⁸	\$ 200,000	\$ 1,600,000	\$

 Typically design is done in Year 1, real estate acquisition in Year 2, and construction in Year 3. Engineering/Design cost is typically 15% to 20% of the construction cost. State design review is typically 3% of construction cost, minimum \$5,000. This covers plan review, bid advertisement, and printing/mailing of plan sets to potential bidders. This cost applies only to projects that will be let and administered by WisDOT. Contingencies and construction management are typically budgeted at 15% of the Subtotal. Local share for this program is normally 20%. Federal share for this program is normally 80%. 						
Please affirm your understand	ing of the following	g project conditions	s by initialing in the spac	es provide	ed:	
A. Private org	anizations prop	osing projects g	enerally must have a	public sp	consor (a loca	al government
	sit operator).					
B. The project project cost	•	vate partner mus	st provide matching d	lollar fur	iding of at lea	ast 20% of
C This is a re	oimhurcement n	rooram. The an	plicant organization	must fina	nce the proje	ect until Federal
reimbursen	nent funds are a	vailable.				
D. The applic	ant must fund p	roject costs in e	xcess of the amounts	indicated	d in the above	e Project Cost
Estimate (i	.e. cost overrun	s) at no expense	to State/Federal fun	ding sou	rces.	
E. Projects m	ust be designed	and constructed	in accordance with a	all applic	able federal a	ınd state
requiremen	ts, including bu	nt not limited to	those on page 13 of t	he applic	cation.	
If the public sponsor is submit	ting more than one	e application, priori	tize this project here (e.	.g., 1 of 5)	:	
I hereby certify that the above statements are true and complete to the best of the applicant's knowledge and understanding. Name of Applicant Organization City of Milwaukee Name of Signer (Printed Clearly) Jeffrey S. Polenske, P.E. Signature Title City Engineer Date						
			ted by the WisDOT I			
Environmental Document Type	Ir	nprovement Type		Program	Year	
Primary ID	Primary ID Related ID's Program CMAQ					
Responsible Projects Group Project Supervisor						
WisDOT Region Approvals						
Team Leader Approval						Date
Programming Team Approval Date Systems Planning Manager Concurrence Date				Date		

PLEASE ATTACH A SITE MAP, PHOTOGRAPHS, OR ANY OTHER GRAPHICS THAT WILL ASSIST THE SELECTION COMMITTEE IN UNDERSTANDING THE LOCATION AND NATURE OF THE PROPOSED PROJECT.

APPLICATION FOR FUNDING CMAQ PROGRAM FYS 2008-2010

Date of Application	Application Number	WisDOT Project ID Number	
April 15, 2007			
Project Title	Location(s) Served by Project		
Open Metal Grate Bridge Bike Lanes	Various Arterial		
	Roadways Citywide		
Project Description - Project Limits	County/Counties Served by Pro	ject	
Install anti-slip bridge decking	Milwaukee		
in bike lane of lift bridges at			
Water St., Pleasant St., Wisconsin			
Ave., and Juneau.			
Project Description Continued	Total Cost of Project (Including	Local Match)	
Create bicycle lanes on various	\$700,000		
open metal grate lift bridges in	***************************************		
Milwaukee.			
Name and Address of Public Sponsor	Name, Telephone & Fax Numb	ers of Public Sponsor Contact	
City of Milwaukee	Mr. Jeffrey S. F	Polenske	
841 North Broadway, Room 701	City Engineer		
Milwaukee Wisconsin, 53202	(414)286-2400 telephone		
	(414)286-5994 Fax		
Other Organization(s) Involved in Project	Name, Telephone & Fax Numbers of Private Partner		
(e.g. Private Partner)			
		:	
Project Category/Categories	Construction and the first of the contract of		
□ Public Transportation	Sponsor's Metropolitan Plannin		
•	X Southeastern WI Region	at Planning Commission	
X Bicycle/Pedestrian	(SEWRPC)		
☐ Car and Vanpooling	☐ Bay-Lake Regional Planning Commission (BLRPC) -		
☐ Park & Ride Lot	only for Sheboygan Metropolitan Planning Area		
☐ Traffic Flow Improvement (e.g. System Signalization)	☐ Non Metropolitan Planni	ng Area	
☐ Alternative Fuels			
☐ Other (Please Describe, e.g., Diesel Retrofit):			
Project Description	Po Brief But Commission		

Project Description - Be Brief But Complete

1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application. This project retrofit our existing lift bridges with 4ft. anti-slip treatments on the outside edge to improve the deck for bicyclists. The existing bridge decks are open metal grate and very slippery when wet. We will add either the SlipNot plating. We will leave the outside 1 foot area (not usable by cyclists) open to allow for drainage and snow removal. We have already used these treatments on two bridges in Milwaukee with great success and hope to add them to these remaining key bridges. We will use either the SlipNot brand bridge plate.

This project will serve primarily the mixed use development Downtown, in the Third Ward and Brewers Hill areas. These areas have high density and already experience one of the higher level of trips by bicycle. However the metal bridges scare many cyclists and keep them from biking downtown

2. Why is the project necessary? How will it contribute to improving air quality?

One of the stated goals in the Wisconsin Bicycle Transportation Plan
2020 is to increase levels of bicycling throughout Wisconsin. And the

2035 plan advises that: "All arterial streets and highways (including their bridge and underpass facilities) except freeways should provide accommodation for bicyclists."

This goal is to be accomplished by providing new and improved transportation facilities to accommodate and encourage use by bicyclists, i.e. providing bike lanes on bridges. Our metal bridges prove to be intimidating to even very experienced cyclists. This antislip plating has been used on a couple brides in Milwaukee and has been extremely well received by cyclists. Adding this plating to our other bridges will remove one of the final barriers to cycling in our central business district. This project will encourage the use of bicycles for utilitarian trips that are now being made by automobile.

3. Realistically, how much use will this facility or service get?

Bicycle lanes provide many benefits that will encourage the use of bicycles for utilitarian trips that are now being made by automobiles. Among the benefits of bicycle lanes are:

- 1. Defining a space for bicyclists to ride.
- 2. Helping less experienced bicyclists feel more confident and will to ride on busier streets.
- 3. Reducing motor vehicle lane changing when passing bicyclists.
- 4. Increasing bikeway visibility in the transportation system. The level of bicycling in the City of Milwaukee increased after we installed the last anti-slip bridge deck bike lanes, and this project will further increase bicycle use in Milwaukee for utilitarian trips. According to the State Bicycle Plan, the transportation benefits of

According to the State Bicycle Plan, the transportation benefits of bicycling include reduced congestion, decreased need for parking, and the implementation of safety improvements that benefit all roadway users.

4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

If awarded this grant and given permission to expend funds, the City of Milwaukee structural engineering department will begin preliminary engineering. Due to our previous experience with the product, we expect to be able to advertise the project the following year. The entire project (all bridges) should be finished within 3 years of the grant award..

5. What obstacles or problems must be overcome to implement this project?

Balancing the lift bridges with additional counterweights could be a problem, but initial inspections lead us to estimate there is sufficient room for additional counterweights.

6. What will make this project a success?

The mission statement in the Wisconsin Bicycle Transportation Plan is: "To establish bicycling s a viable, convenient and safe

transportation choice throughout Wisconsin"

Providing additional bicycle lanes on arterial roadways within the City of Milwaukee will help to move forward with that goal. Providing additional bicycle lanes on these metal bridges will add to an already impressive bikeway system in the City of Milwaukee.

Project Cost Estimate & Timetable ¹				
Item	Year 1	Year 2	Year 3	
Engineering & Design ²	\$ 100,000	\$	\$	
State Design Review ³	\$	\$	\$	
Real Estate & Easements	\$	\$	\$	
Utility Relocation	\$	\$	\$	
Construction	\$	\$	\$	

Bridges & Buildings	\$	\$ 550,000	S
Landscaping	\$	\$	\$
Railroad Signals/Crossings	\$	\$	\$
Traffic Control Devices	\$	\$	\$
Operation & Maintenance	\$	\$	\$
Marketing & Promotion	\$	\$	\$
Other: e.g. transit operating	\$	\$	\$
Other: e.g. transit capital	\$	\$	\$
Other:	\$	\$	\$
Subtotal	\$	\$ 550,000	\$
Contingencies & Constr Mgt4	\$	\$ 50,000	\$
Total	\$ 100,000	\$ 600,000	\$
Local Share ⁵	\$ 20,000	\$ 120,000	\$
Federal Share ⁶	\$ 100,000	\$ 480,000	\$

APPLICATION FOR FUNDING CMAQ PROGRAM FYS 2008-2010

Date of Application	Application Number	WisDOT Project ID Number	
April 15, 2007	Application (variable)	WISDOT FTOJECTIO NUMBER	
Project Title	Location(s) Served by Project		
Bicycle Lane Installations	Various Arterial		
	Roadways Citywide		
Project Description - Project Limits	County/Counties Served by Pro		
Install pavement marking on	Milwaukee	Jec.	
various arterial roadways	In I wadkee		
Project Description Continued	Total Cost of Project (Including	Local Match	
Create exclusive bicycle lanes on	\$600,000	Local Iviatori)	
various roadways throughout the] 5000,000		
City of Milwaukee.			
Name and Address of Public Sponsor	None Talashana R Fay Nyash		
City of Milwaukee	Name, Telephone & Fax Number Mr. Jeffrey S. F	,	
841 North Broadway, Room 701	_	Orenske	
	City Engineer		
Milwaukee Wisconsin, 53202	(414)286-2400 telephone		
	(414)286-5994 Fax		
Other Organization(s) Involved in Project (e.g. Private Partner)	Name, Telephone & Fax Numbers of Private Partner		
(c.g. r mate r artier)			
Project Category/Categories	[- O	
☐ Public Transportation	Sponsor's Metropolitan Plannin		
X Bicycle/Pedestrian	X Southeastern WI Regional Planning Commission		
•	(SEWRPC)		
☐ Car and Vanpooling ☐ Park & Ride Lot	☐ Bay-Lake Regional Planning Commission (BLRPC) -		
	only for Sheboygan Metropolitan Planning Area		
☐ Traffic Flow Improvement (e.g. System Signalization)	☐ Non Metropolitan Planning Area		
Alternative Fuels			
☐ Other (Please Describe, e.g., Diesel Retrofit):			

Project Description - Be Brief But Complete

- 1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application. In 2003, the City of Milwaukee retained the Bicycle Federation of Wisconsin (BFW) to evaluate the City's bicycle route network and to make recommendations for improvements to existing and proposed routes (Project I.D. 2984-11-02). The City's bicycle route network currently consists of signed bike routes and about 47 miles of bike lanes. The focus of the BFW project consisted of identifying City streets that are appropriate for bike lanes. This analysis identified 257 miles of streets with cross sections and traffic volumes appropriate for bike lanes. Those streets were then prioritized according to three main criteria:
 - 1. Connectivity to other bike lanes or paths
 - 2. Need based on amount of bike lanes in the area
 - 3. Requests from surveys

This resulted in 145 miles ranked as "high priority" segments. The BFW also prepared Milwaukee's "Bike Lane Design Guide" which indicates the streets that are appropriate for bike lanes and shows the appropriate lane widths, with and without parking. We currently have a CMAO grant

to stripe an additional 30 miles this summer. This project will allow the City of Milwaukee to continue to install bike lanes on many of the roadways previously identified as being appropriate for bike lanes. It is the City's desire to install approximately 20 to 30 miles of new bicycle lanes per year.

2. Why is the project necessary? How will it contribute to improving air quality?

One of the stated goals in the Wisconsin Bicycle Transportation Plan 2020 is to increase levels of bicycling throughout Wisconsin. And the 2035 plan advises that: "All arterial streets and highways (including their bridge and underpass facilities) except freeways should provide accommodation for bicyclists."

This goal is to be accomplished by providing new and improved transportation facilities to accommodate and encourage use by bicyclists, i.e. providing bike lane, and by expanding the statewide network of safe and convenient routes for bicycle transportation. The State Bicycle Plan and the Facilities Development Manual also recommends that bicycle provisions be provided on urban arterial roadways unless the costs or adverse impacts of such accommodations are excessively disproportionate to expected usage. The State Bicycle Plan also states that the WISDOT will cooperate with local jurisdictions to help develop "stand alone" bikeway projects. This project is consistent with the State Bicycle Plan in that the bicycle route network will be expanded and improved accommodations will be provided for bicyclists. This will encourage the use of bicycles for utilitarian trips that are now being made by automobile.

3. Realistically, how much use will this facility or service get?

Bicycle lanes provide many benefits that will encourage the use of bicycles for utilitarian trips that are now being made by automobiles. Among the benefits of bicycle lanes are:

- 1. Defining a space for bicyclists to ride.
- 2. Helping less experienced bicyclists feel more confident and will to ride on busier streets.
- 3. Reducing motor vehicle lane changing when passing bicyclists.
- 4. Guiding bicyclists through intersections.
- 5. Increasing bikeway visibility in the transportation system. The level of bicycling in the City of Milwaukee increased after we installed the last bike lanes, and this project will further increase bicycle use in Milwaukee for utilitarian trips. According to the State Bicycle Plan, the transportation benefits of bicycling include reduced congestion, decreased need for parking, and the implementation of safety improvements that benefit all roadway users.

4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

It is the City's intent to install approximately 20 to 30 miles of new bicycle lanes per year. Since the Bicycle Federation of Wisconsin has identified 145 miles of roadway as "high priority" for bicycle lanes, there is no doubt that the goal of 20 to 30 miles per year can be met, assuming funding is in place. It is our intention to let a pavement marking installation project in each of the three program years. The Milwaukee Bike Lane Design Guide identifies the candidate roadways and provides guidance in the proper location of the pavement markings for various roadway widths, with and without parking. The City will be able to put together the necessary documents for a local let pavement

marking installation project immediately following authorization to expend the funds.

5. What obstacles or problems must be overcome to implement this project?

Once the funding is in place, the only obstacle is to dedicate appropriate staff time to implement the projects.

6. What will make this project a success?

The mission statement in the Wisconsin Bicycle Transportation Plan is:
"To establish bicycling s a viable, convenient and safe
transportation choice throughout Wisconsin"

Providing additional bicycle lanes on arterial roadways within the City of Milwaukee will help to move forward with that goal. Providing additional bicycle lanes will add to an already impressive bikeway system in the City of Milwaukee. It will compliment the County's Oak Leaf Trail system and the State's Hank Aaron State Trail. This project is just one more element in making the City of Milwaukee a first class bicycling city.

Project Cost Estimate & Timetable¹				
Item	Year 1	Year 2	Year 3	
Engineering & Design ²	\$ 10,000	\$ 10,000	\$	
State Design Review ³	\$	\$	\$	
Real Estate & Easements	\$	\$	\$	
Utility Relocation	\$	\$	\$	
Construction	\$ 250,000	\$ 250,000	\$	
Bridges & Buildings	\$	\$	\$	
Landscaping	\$	\$	\$	
Railroad Signals/Crossings	\$	\$	\$	
Traffic Control Devices	\$	\$	\$	
Operation & Maintenance	\$	\$	\$	
Marketing & Promotion	\$	\$	\$	
Other: e.g. transit operating	\$	\$	\$	
Other: e.g. transit capital	\$	\$	\$	
Other:	\$	\$	\$	
Subtotal	\$ 260,000	\$ 260,000	\$	
Contingencies & Constr Mgt*	\$ 40,000	\$ 40,000	\$	
Total	\$ 300,000	\$ 300,000		
Local Share ⁵	\$ 60,000	\$ 60,000	\$	
Federal Share ⁵	\$ 240,000	\$ 240,000	\$	

APPLICATION FOR FUNDING CMAQ PROGRAM FYs 2008-2010

CIVIAG FROGRAM 1 13 2000-2010	A Part Almohar	WisDOT Project ID Number	
Date of Application	Application Number	WISDOTT TOJECT ID Manifor	
April 15, 2007			
Project Title	Location(s) Served by Project		
Bicycle Lane Installations	Various Arterial	1	
	Roadways Citywide		
Project Description - Project Limits	County/Counties Served by Pro	oject	
Install pavement marking on	Milwaukee		
various arterial roadways			
Project Description Continued	Total Cost of Project (Including	Local Match)	
Create exclusive bicycle lanes on	\$600,000		
various roadways throughout the			
City of Milwaukee.			
Name and Address of Public Sponsor	Name, Telephone & Fax Numb	ers of Public Sponsor Contact	
City of Milwaukee	Mr. Jeffrey S. H	Polenske	
841 North Broadway, Room 701	City Engineer		
Milwaukee Wisconsin, 53202	(414)286-2400 telephone		
Milwaukee Wisconsin, 33232	(414)286-5994 Fax		
Other Organization(s) Involved in Project	Name, Telephone & Fax Numbers of Private Partner		
(e.g. Private Partner)	Tumo, Total Total		
(0.9.1 11120 1 21210)			

Project Category/Categories	Sponsor's Metropolitan Plannin	ng Organization Area	
☐ Public Transportation	X Southeastern WI Regional Planning Commission		
1	(SEWRPC)		
X Bicycle/Pedestrian	Bay-Lake Regional Planning Commission (BLRPC) -		
☐ Car and Vanpooling	only for Sheboygan Metropolitan Planning Area		
☐ Park & Ride Lot	- 1 "		
☐ Traffic Flow Improvement (e.g. System Signalization)	14011 Metropoittan Franci	ing incu	
☐ Alternative Fuels			
☐ Other (Please Describe, e.g., Diesel Retrofit):			

Project Description - Be Brief But Complete

- 1. Where is the project located? Who does it serve? How large will it be? What will it be made of? How will it be accomplished? Important: In addition to describing the project location below, attach a map of the project site to this application. In 2003, the City of Milwaukee retained the Bicycle Federation of Wisconsin (BFW) to evaluate the City's bicycle route network and to make recommendations for improvements to existing and proposed routes (Project I.D. 2984-11-02). The City's bicycle route network currently consists of signed bike routes and about 47 miles of bike lanes. The focus of the BFW project consisted of identifying City streets that are appropriate for bike lanes. This analysis identified 257 miles of streets with cross sections and traffic volumes appropriate for bike lanes. Those streets were then prioritized according to three main criteria:
 - 1. Connectivity to other bike lanes or paths
 - 2. Need based on amount of bike lanes in the area
 - 3. Requests from surveys

This resulted in 145 miles ranked as "high priority" segments. The BFW also prepared Milwaukee's "Bike Lane Design Guide" which indicates the streets that are appropriate for bike lanes and shows the appropriate lane widths, with and without parking. We currently have a CMAQ grant

to stripe an additional 30 miles this summer. This project will allow the City of Milwaukee to continue to install bike lanes on many of the roadways previously identified as being appropriate for bike lanes. It is the City's desire to install approximately 20 to 30 miles of new bicycle lanes per year.

2. Why is the project necessary? How will it contribute to improving air quality?

One of the stated goals in the Wisconsin Bicycle Transportation Plan 2020 is to increase levels of bicycling throughout Wisconsin. And the 2035 plan advises that: "All arterial streets and highways (including their bridge and underpass facilities) except freeways should provide accommodation for bicyclists."

This goal is to be accomplished by providing new and improved transportation facilities to accommodate and encourage use by bicyclists, i.e. providing bike lane, and by expanding the statewide network of safe and convenient routes for bicycle transportation. The State Bicycle Plan and the Facilities Development Manual also recommends that bicycle provisions be provided on urban arterial roadways unless the costs or adverse impacts of such accommodations are excessively disproportionate to expected usage. The State Bicycle Plan also states that the WISDOT will cooperate with local jurisdictions to help develop "stand alone" bikeway projects. This project is consistent with the State Bicycle Plan in that the bicycle route network will be expanded and improved accommodations will be provided for bicyclists. This will encourage the use of bicycles for utilitarian trips that are now being made by automobile.

3. Realistically, how much use will this facility or service get?

Bicycle lanes provide many benefits that will encourage the use of bicycles for utilitarian trips that are now being made by automobiles. Among the benefits of bicycle lanes are:

- 1. Defining a space for bicyclists to ride.
- 2. Helping less experienced bicyclists feel more confident and will to ride on busier streets.
- 3. Reducing motor vehicle lane changing when passing bicyclists.
- 4. Guiding bicyclists through intersections.
- 5. Increasing bikeway visibility in the transportation system. The level of bicycling in the City of Milwaukee increased after we installed the last bike lanes, and this project will further increase bicycle use in Milwaukee for utilitarian trips. According to the State Bicycle Plan, the transportation benefits of bicycling include reduced congestion, decreased need for parking, and the implementation of safety improvements that benefit all roadway users.

4. What is the project timeline? How will the sponsor ensure that the project is implemented in a timely manner?

It is the City's intent to install approximately 20 to 30 miles of new bicycle lanes per year. Since the Bicycle Federation of Wisconsin has identified 145 miles of roadway as "high priority" for bicycle lanes, there is no doubt that the goal of 20 to 30 miles per year can be met, assuming funding is in place. It is our intention to let a pavement marking installation project in each of the three program years. The Milwaukee Bike Lane Design Guide identifies the candidate roadways and provides guidance in the proper location of the pavement markings for various roadway widths, with and without parking. The City will be

able to put together the necessary documents for a local let pavement

marking installation project immediately following authorization to expend the funds.

5. What obstacles or problems must be overcome to implement this project?

Once the funding is in place, the only obstacle is to dedicate appropriate staff time to implement the projects.

6. What will make this project a success?

The mission statement in the Wisconsin Bicycle Transportation Plan is: "To establish bicycling s a viable, convenient and safe transportation choice throughout Wisconsin"

Providing additional bicycle lanes on arterial roadways within the City of Milwaukee will help to move forward with that goal. Providing additional bicycle lanes will add to an already impressive bikeway system in the City of Milwaukee. It will compliment the County's Oak Leaf Trail system and the State's Hank Aaron State Trail. This project is just one more element in making the City of Milwaukee a first class bicycling city.

Project Cost Estimate & Timetable				
Item	Year 1	Year 2	Year 3	
Engineering & Design*	\$ 10,000	\$ 10,000	S.	
State Design Review ³	\$	\$	\$	
Real Estate & Easements	\$	\$	\$	
Utility Relocation	\$	\$	\$	
Construction	\$ 250,000	\$ 250,000	\$	
Bridges & Buildings	\$	\$	\$	
Landscaping	\$	\$	\$	
Railroad Signals/Crossings	\$	\$	\$	
Traffic Control Devices	\$	\$	\$	
Operation & Maintenance	\$	\$	\$	
Marketing & Promotion	\$	\$	\$	
Other: e.g. transit operating	\$	\$	\$	
Other: e.g. transit capital	\$	\$	\$	
Other:	\$	\$	\$	
Subtotal	\$ 260,000	\$ 260,000		
Contingencies & Constr Mgt4	\$ 40,000	\$ 40,000	\$	
Total	\$ 300,000	\$ 300,000		
Local Share ⁵	\$ 60,000	\$ 60,000	\$	
Federal Share ⁶	\$ 240,000	\$ 240,000	\$	