

Project Application for 2008-2011 HIGHWAY SAFETY IMPROVEMENT PROGRAM

DESIGN ID:	TIED PROJECT IDs:
RELATED ID(s): (R/W) (CONST)	

Project Description

1. NAME OF ROAD/INTERSECTION <i>Semi-actuated installation at two connecting highway locations</i>		HWY NO. <i>STH 190 and STH 181</i>
COUNTY <i>Milwaukee</i>	CITY OF <i>Milwaukee</i>	TOWN OF
NAME OF THE MPO THE PROJECT IS REPRESENTED BY <i>Southeast Wisconsin Regional Planning Commission (SEWRPC)</i>		

Is the estimated cost of the project less than \$25,000?

☒ Yes

☐ No

If YES, be sure to complete Box 6 in addition to the rest of this form.

2A. SEGMENT Current Average Daily Traffic	Project Length <div style="text-align: right;">Miles</div>	
Roadway Width	Crash Rate	Shoulder Width

2B. INTERSECTIONS <i>W. Capitol Dr. (STH 190) and N. 7th St.</i>	Crash Rate: <i>0.70</i>	Entering Vehicle Volume: <i>41,000</i>
<i>N. 76th St. (STH 181) and W. Grantosa Dr.</i>	<i>0.60</i>	<i>31,100</i>

Identification of Hazard

2C. Explain identified hazards such as: Visibility Restrictions, Curves, Hills, Intersection Problems, Bike/Ped Conflicts, Narrow Shoulders, Rutting, Etc.

Both subject intersections have high imbalances in traffic volumes. Currently, the traffic signals at both intersections operate on a fixed 90 second cycle length with fixed splits. In addition, both signals are located close to other signalized intersections with high turning volumes. The unnecessary number and length of the red indications on the major street approaches, including when no vehicles or pedestrians are present on the minor street approaches, at both intersections contributes to a high number of rear-end and disregard of red crashes. Furthermore, the shorter green indications for the major street approaches at both intersections reduce gaps for left-turning vehicles, leading to additional left turn crashes from the major street approaches.

Street 1	Street 2	Crashes '02-'06	ADT	Crashes/ MEV	Major Street Rear-end	Major Street Disregard	Percent Disregard/ Rear-end
Capitol	7th	48	41,000	0.70	17	5	46%
Grantosa	76th	31	31,100	0.60	6	3	29%

Proposed Improvement

3. In some detail, describe the proposed project and how it will address the identified hazard.

To reduce the number and length of red indications for the major street approaches at both subject intersections, the City of Milwaukee will install pedestrian pushbuttons and vehicle detection loops for the minor street approaches for semi-actuated operation and controlled visibility housings will be installed southbound on N. 76th St. at W. Grantosa Dr. This will lengthen the green indication for the major street approaches, including skipping the minor street approaches when vehicles and pedestrians are not present, resulting in fewer unnecessary stops for through traffic on the major street approaches as well as turning vehicles from upstream signals resulting in a reduction of the number of rear-end and disregard of red crashes on the major street approaches. Furthermore, the longer green indications will increase the number of gaps for left-turning vehicles on the major street approaches reducing the number of crashes involving left-turning vehicles. Lastly, the controlled visibility housings on N. 76th St. at W. Grantosa Dr. will minimize the number of southbound disregard of red crashes at the traffic

signal at W. Villard Av. due to the longer green indications at W. Grantosa Dr.

Project Cost

4. Estimate project costs in today's dollars)	FY 2008	FY 2009	FY 2010	FY 2011
Preliminary Engineering-Design (-00)*: Include state review		\$1,600		
Construction Inspection (-71)		\$2,500		
Traffic Signals and Signs (-90)		\$14,400		
Other Costs		\$0		
** TOTAL		\$18,500		

* Ineligible cost for Small Local HES Project (less than \$25,000).

** The project sponsors will be responsible for any project costs in excess of the approved project cost.

6. PRIMARY CONTACT PERSON or AGENCY		
NAME <i>Jeffrey S. Polenske, P.E.</i>	TITLE <i>City Engineer</i>	
ADDRESS <i>841 N. Broadway, Room 701</i>	TELEPHONE <i>(414) 286-2400</i>	
MUNICIPALITY <i>Milwaukee</i>	STATE <i>WI</i>	ZIP <i>53202</i>

Complete this box only for projects less than \$25,000:

5. Will project affect or use land from a property on the National Register of Historic Places? ☐ Yes ☒ No
- Will project require the use of any publicly-owned land from a public park, recreation area, or wildlife and waterfowl refuge? ☐ Yes ☒ No
- Is your municipality adequately staffed and equipped to do the work? ☒ Yes ☐ No
- Does your municipality have prior commitments that would impair your performance of this work? ☐ Yes ☒ No

7. SIGNATURE, LOCAL APPROVING AUTHORITY	DATE
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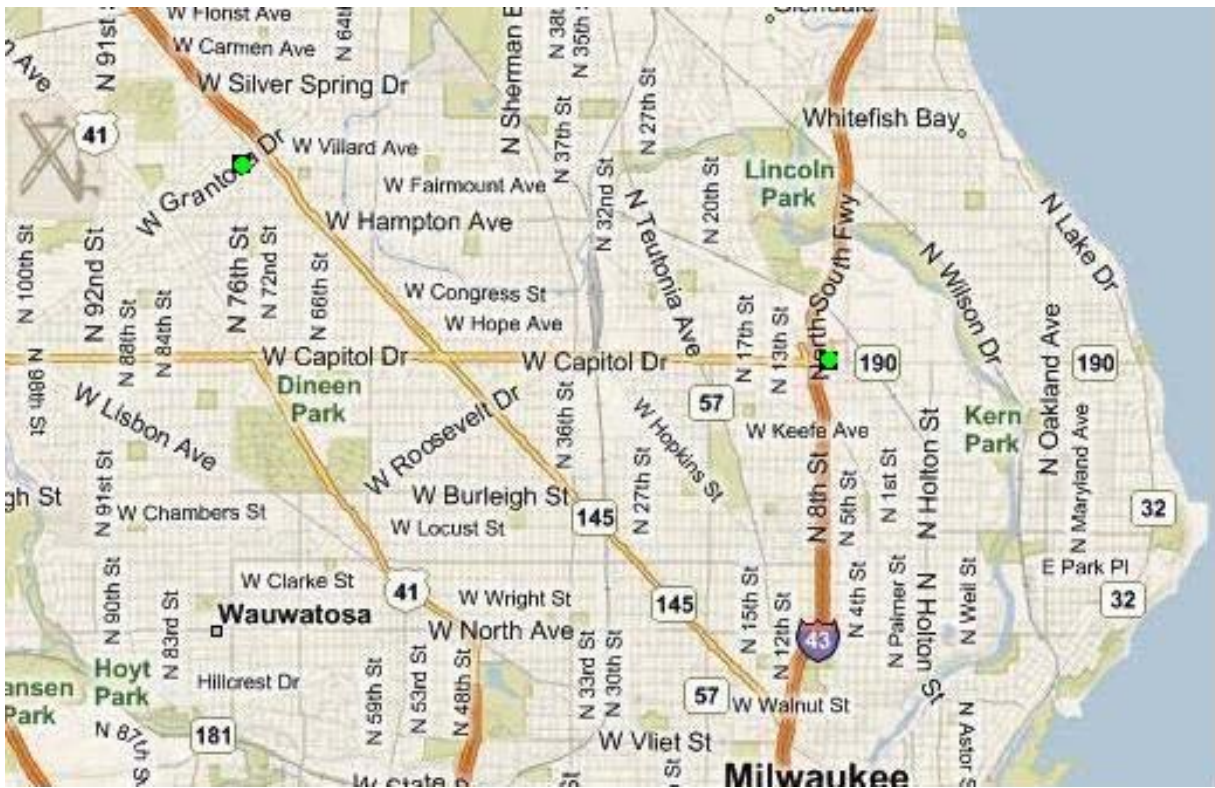
WisDOT Information – Shaded areas to be completed by WisDOT staff only.

A. Environmental Documentation Type		B. Hazard Elimination Type	
C. PMSID	D. Functional Class	E. PEF	

DISTRICT APPROVAL Project Supervisor	Date
Planning Supervisor	Date

C.O. Concurrence	Approved _____ Disapproved ____
Approving Authority	Date

PROJECT LOCATION MAP



INTERSECTION PICTURES TWO CONNECTING HIGHWAY INTERSECTIONS

Capitol Dr. (STH 190) and 7th – Facing East



Capitol Dr. (STH 190) and 7th – Facing West



Capitol Dr. (STH 190) and 7th – Facing North



Capitol Dr. (STH 190) and 7th – Facing South



INTERSECTION PICTURES TWO CONNECTING HIGHWAY INTERSECTIONS

Grantosa and 76th (STH 181) – Facing East



Grantosa and 76th (STH 181) – Facing West



Grantosa and 76th (STH 181) – Facing North



Grantosa and 76th (STH 181) – Facing South

