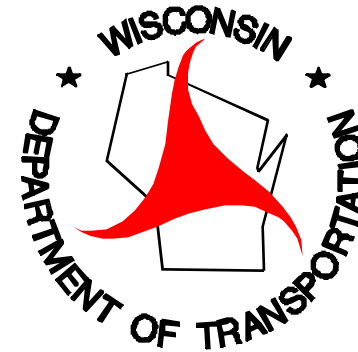




*Highway Safety Improvement Program
Data Driven Decisions*



HIGHWAY SAFETY IMPROVEMENT PROGRAM

Division of Transportation Investment Management
Bureau of State Highway Programs

Wisconsin Tribal Transportation Conference
Green Bay, WI
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Darren Schoer
WisDOT Safety Program Manager
608.266.1167
darren.schoer@dot.wi.gov

General Overview

- ❖ HSIP is a core program within the current federal transportation bill (MAP-21).
- ❖ Purpose of HSIP is “...to achieve a significant reduction in traffic fatalities and serious injuries on all public roads.”
- ❖ HSIP is focused on infrastructure improvements identified and selected through a data-driven approach.
- ❖ HSIP emphasis is on low-cost treatments that can be implemented quickly.

Program Funding

- ❖ **A federal reimbursement program and NOT a federal grant program**
- ❖ **90% federal HSIP funds available for most projects**
- ❖ **10% match required**
 - State pays match for STH projects
 - Locals pay match for non-STH projects (local streets and highways)



90:10

Program Cycle & Application Deadlines

- ❖ **Four-year program¹ of projects**
- ❖ **Program on an annual cycle**
- ❖ **Current program is 2015-2018**
- ❖ **Deadline for 2015-2018 Mid-Cycle HSIP submittals is
February 13th, 2015**

¹ Projects with longer, more complicated delivery schedules (at least 4 years) will be considered for approval in Years 5 and 6; but will be given lower priority than projects that can be delivered quickly.

Typical Eligible Spot Projects

- ❖ Intersection safety improvements (including installing/modifying traffic signals, roundabouts and channelization/turning radii improvements)
- ❖ Straightening isolated curves or hills
- ❖ Improving sight distance
- ❖ Access modifications
- ❖ Constructing turning, bypass or other auxiliary lanes
- ❖ Eliminating a roadside obstacle
- ❖ Installing guardrails, barriers and crash attenuators
- ❖ Installing signs, delineators, flashing warning lights (including fluorescent, yellow-green signs) at pedestrian-bicycle crossings, in school zones and other problem areas

Typical Corridor-Wide Projects

- ❖ Local units of government encouraged to conduct analyses to identify corridors with hazardous locations

- ❖ Typical projects could include:
 - Stand-alone beam guard installations and end treatments
 - Larger or additional signing
 - Chevrons
 - Pavement marking
 - Rumble strips
 - Eliminating clear zone encroachments
 - Pedestrian countdown timers
 - Corridor signal upgrades

Application Requirements

- ❖ Completed HSIP Project Application Form
- ❖ General sketch of project proposal
- ❖ Collision diagrams
- ❖ Crash history (most current consecutive 5 yrs.) and appropriate crash analysis; provide DTSD Region Office with MV4000 reports
- ❖ Site photos
- ❖ Itemized cost estimate
- ❖ Project Evaluation Factor (PEF) analysis worksheets

The HSIP Application Form

Wisconsin Department of Transportation (WisDOT)
Project Application for 2015-2018 HIGHWAY SAFETY IMPROVEMENT PROGRAM

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

Project Description

1. NAME OF ROAD INTERSECTION		HWY NO.
COUNTY	CITY OF	TOWN OF
NAME OF THE MPO THE PROJECT IS REPRESENTED BY		

1A. SEGMENT		Project Length	Miles
Current Average Daily Traffic	Crash Rate	Shoulder Width	
Roadway Width			

1B. INTERSECTION	Crash Rate	Entering Vehicle Volume
Roadway Width		

Identification of Hazard

1C. Explain identified hazards such as: Visibility Restrictions, Curves, Hills, Intersection Problems, Bike Ped Conflicts, Narrow Shoulders, Rutting, Etc.

Proposed Improvement

1. In more detail, describe the proposed project and how it will address the identified hazard. In addition, briefly discuss any alternatives considered and why these options are not the preferred alternative.

Project Cost

4. Estimate project costs in today's dollars)	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	HSIP FUNDS REQUESTED
Preliminary Engineering Design (Include state review)							
Real Estate							
Major Construction Items (Include Construction Engineering, Mobilization, and Contingencies)							
Other Costs							
*TOTAL COST							

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

5. LOCATIONS OF INTEREST REPORT 2% PROJECT IDENTIFICATION

Is this project location identified in one of the two most recent LOIR, 2% Reports? YES NO

Contact Information and Signature

6. PRIMARY CONTACT PERSON or AGENCY

NAME	TITLE	
ADDRESS	TELEPHONE ()	
MUNICIPALITY	STATE	ZIP
7. SIGNATURE OF LOCAL APPROVING AUTHORITY		DATE

WisDOT Information – Shaded areas to be completed by WisDOT staff only.

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

REGION APPROVAL Project Supervisor	Date
Planning Supervisor	Date

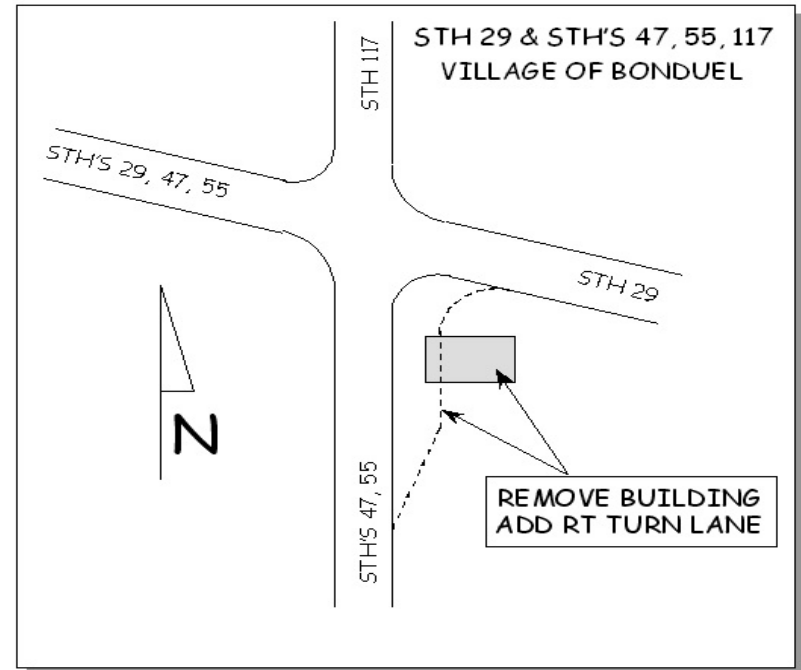
C.O. Concurrence	Approved _____ Disapproved _____
Approving Authority	Date

Form is available at the **Programs for Local Gov't.** website, in the HSIP Guidelines and from Regional HSIP Coordinators

Other Application Materials

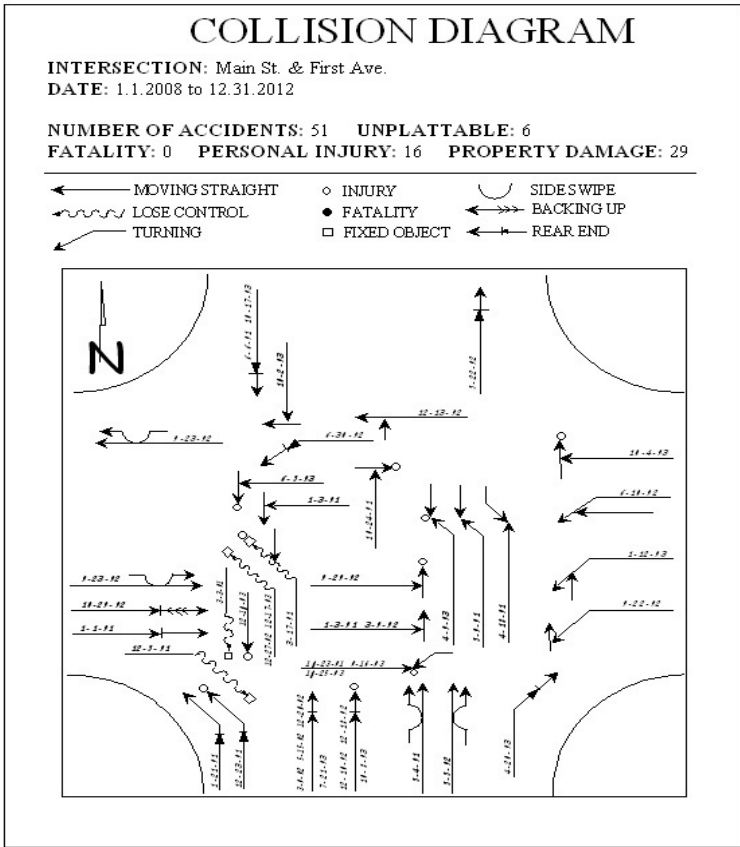


Site Photos



Sketch of
Project Proposal

Other Application Materials



Collision diagram(s)

EXAMPLE: Road A & Road B Intersection Improvements
Cost Estimate
Prepared Month/Date/Year

ITEM NO.	ITEM	QUANTITY	UNITS	NUMERIC UNIT PRICE	NUMERIC TOTAL PRICE
GENERAL CONDITIONS					
101	Utility Coordination	1	L3	\$1,000.00	\$1,000.00
102	Maintenance of Traffic	1	L3	\$10,000.00	\$10,000.00
103	Shop Control	0	E.A.	\$1,000.00	\$0.00
104	Mobilization	1	L3	\$0,000.00	\$0,000.00
SOIL REMEDIATION					
201	Excavation	1	L3	\$10,000.00	\$10,000.00
202	Underdrain Excavation	1700	CY	\$3.00	\$5,100.00
203	Underdrain Excavation Material and Fill	300	CY	\$3.00	\$,900.00
NO CONCRETE					
301	Sign and Letter Fabrication and Erection	2500	LF	\$1.00	\$2,500.00
302	New Street Curb & Gutter	1200	LF	\$1.00	\$1,200.00
303	Concrete Pavement Removal	8200	SF	\$1.00	\$8,200.00
304	2 inch Concrete Medians New	5000	SF	\$4.50	\$22,500.00
305	Concrete Interlocking	100	LF	\$1.00	\$100.00
306	2 inch Concrete Pavement	4000	SF	\$1.00	\$4,000.00
307	12" x 18" Truncated Dome Pavers	30	E.A.	\$100.00	\$3,000.00
PAVEMENTS					
401	Asphalt Resurfacing	80	LF	\$1.00	\$80.00
402	Preformed Asphalt Pavement Removal	100	SF	\$1.00	\$100.00
403	New 8 1/2 inch Bituminous Asphalt Pavement (3-1)	100	SF	\$10.00	\$1,000.00
404	2 inch Bituminous Asphalt Blotup w/ 2 inch Base	400	SF	\$5.00	\$2,000.00
405	Cracked Aggregate Basecourse (3 inch depth)	2000	SF	\$7.00	\$14,000.00
406	Cracked Aggregate Basecourse (3.5 inch depth)	10	SF	\$0.50	\$5.00
ORANITARY & STORM					
501	Adjust Inlet Manhole Covering	1	E.A.	\$200.00	\$200.00
502	Adjust Manhole Manhole Covering	2	E.A.	\$1,000.00	\$2,000.00
503	Storm Sewer Collection/Conveyance Modification	1	L3	\$12,000.00	\$12,000.00
NO WATER MAIN					
601	Adjust Water Valve	2	E.A.	\$100.00	\$200.00
602	Replace Water Valve Rim	1	E.A.	\$400.00	\$400.00
NO MISCELLANEOUS					
701	Type C Solid Protection	0	E.A.	\$100.00	\$0.00
702	Pavement Marking and Signing	1	L3	\$3,000.00	\$3,000.00
703	Traffic Signal Cabinet Upgrade	1	L3	\$200,000.00	\$200,000.00

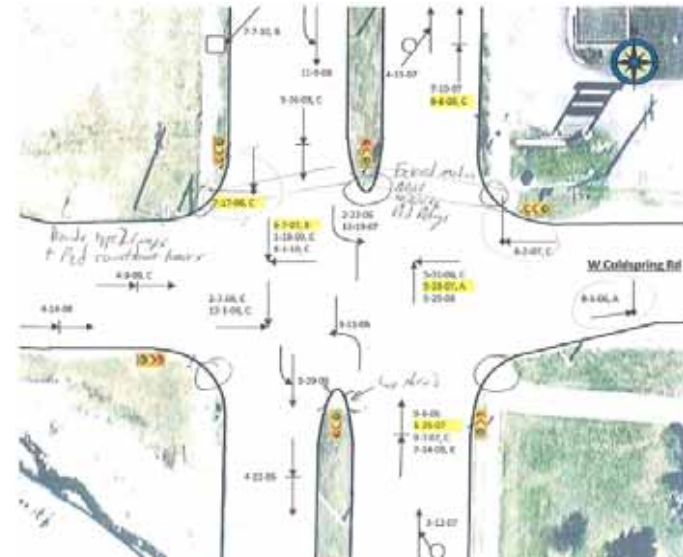
Sub Total = 170,000.00
 3% Contingency = 5,100.00
 Estimated Construction Cost = 175,100.00
 Engineering @ 3% = 5,253.10
 TOTAL Estimated Cost = 180,353.10

If additional information is available on organization components, provide as much detail as possible. Additional information might include details and costs for items like electricity components, types of policies, pedestrian count-down timers, etc.

Itemized Cost Estimate

Project Analysis

- ❖ Crash history required.
- ❖ Identify crashes that would have been avoided if project constructed.
- ❖ Project Evaluation Factor (PEF) estimates crash reduction potential of proposed improvements and compares them to project costs.
- ❖ PEF is used to compare and rank proposed projects.
- ❖ WisDOT staff calculates PEF on behalf of local government.



Tips for Successful HSIP Application

- ❖ Follow general instructions on HSIP application
- ❖ Projects rooted in documented crash problems
- ❖ Be as specific as possible in “Proposed Improvements” box
- ❖ Be realistic with the outlined SFY timeframe
 - Generally, design, R/E, and construction not scheduled in same FY

For More Information

- ❖ WisDOT Programs for Local Government
 - <http://www.dot.wisconsin.gov/localgov/highways/hsip.htm>
 - HSIP application materials available for download at this site

- ❖ WisDOT HSIP Staff
 - WisDOT Regional HSIP Coordinators
 - General program information
 - Questions about specific potential projects and applications
 - Statewide HSIP Coordinator (Darren Schoer)
 - General program information

- ❖ WisDOT's Tribal Affairs: Safety page
 - <http://www.dot.wi.gov/localgov/aid/tribalaffairs/i-tsafety.htm>

Regional HSIP Coordinators

NW Region

Bob Heldt

715.836.2857

robert.heldt@dot.wi.gov

NC Region

Tom Krizenesky

715.365.5779

thomas.krizenesky@dot.wi.gov

NE Region

Sandy Carpenter

920.492.5681

sandra.carpenter@dot.wi.gov

SE Region

Robert Schmidt

262.548.8789

robert1.schmidt@dot.wi.gov

Roslin Burns

262.521.5383

roslin.burns@dot.wi.gov

