

Michigan 2009 Transparency Report

Locations Exhibiting the Most Severe Safety Needs

Location	Jurisdiction	Potential Remedies	Estimated Costs	Implementation Impediments	Comments	Crash and Injury Data				Human Factors Involvement		
						K/A Crash Pattern	Total Severe Crashes	A Injuries	Fatalities	Alcohol and/ or Drugs	NO Seatbelt and/ or Helmet Use*	Speed**
Gratiot Ave (M-3) & Mount Elliott St	MDOT - Detroit TSC	Enforcement, Education, Headed-up left lanes on Mt. Elliot and left-turn phasing, No Turn On Red, Close drives, Box span, Pedestrian count-down signals	\$100,000	Funding/personnel issues with enforcement, Signal may not meet warrants, utility issues with box span, political issues with closing existing drives for existing businesses, Mt. Elliot is not MDOT jurisdiction		Ped/ Bike	8	8	2	1	0	0
US-12 & Conrad Rd	MDOT - Coloma TSC	Intersection warning signs, dual 48" stop signs, overhead flashing beacons or ground mounted flashing beacons, rumble strips	\$38,000 - \$53,000 (installed cost \$20,000)	Intersection warning signs and ground mounted flashing beacons were installed October 2008.	Will continue to monitor the intersection.	AN-ST	5	4	2	1	0	0
Getty St & Laketon Ave	City of Muskegon	Convert the span signal to a box span, modify the controller to add an all-red phase, improve ramp to comply with ADA requirements	\$150,000	Availability of public right of way.	The necessary improvements are contained in the proposed project that was submitted to MDOT for Safety grant funds.	None	5	4	2	0	3	0
Highland Rd (M-59) & N Hospital Rd	MDOT - Oakland TSC	1) Monitor intersection for potential signalization; 2) Prohibition of lefts out from Hospital to WB M-59 during peak times.	Signal \$100,000	Intersection does not currently meet signal warrants per signal study completed in January 2009. Coordination with the RCOC needed to restrict left turns.	This segment has a 5 lane cross section with intermittent right turn lanes.	Ped/ AN-TN	4	2	2	1	0	0
Michigan Ave (US-12) & Inkster Rd	MDOT - Taylor TSC	Upgrade signal to box span, provide pedestrian countdowns, Enforcement	\$100,000	None	Currently in design, letting date of Sept. 2008, JN 88073	Ped/ AN-ST	6	5	1	4	1	0
Groesbeck Hwy (M-97) & 10 Mile Rd	MDOT - Macomb TSC	Install left turn phasing	\$150,000	Phasing may not meet warrants.	Lansing Signal Unit will order a signal study to determine if left turn phasing is warranted.	None	5	6	1	1	0	1
County Rd 215 & W I-94 Freeway Overpass	MDOT - Coloma TSC				Crashes took place on a single day during a winter storm.	RE-ST	5	6	1	1	1	8
Monroe Rd & Ecorse Rd	City of Taylor/ Wayne County	City of Taylor has submitted for safety funds to convert leading left phase to lagging flashing yellow displays.	\$50,000	Acceptance of project for funding.	Current left turn phase installed 4-16-08. One severe crash (rear end) has occurred since.	None	5	6	1	0	0	0
Telegraph Rd (US-24) & Struin Rd	MDOT - Taylor TSC	Add a center left turn lane.	\$20,000,000	ROW	JN 46277, Currently programmed for 2011, Design complete.	None	3	3	3	2	0	0
Chamberlain St & Springwells St	City of Detroit	Install crash attenuators on both ends of the bridge piers. Install single level flashing beacon (yellow for Springwells and red for Chamberlain). Construct concrete median island along Springwells between the bridge piers and extend the median island on north side to prevent vehicles from making illegal left turns into Chamberlain.	\$250,000	Limited right of way and no additional right of way is available. All improvements should be done within existing ROW.	Rail road bridge requires maintenance.	FXOBJ	3	2	2	1	2	1
W Davison St (M-8) & Lawton St	MDOT - Detroit TSC	Provide a pedestrian refuge island.		None.	Pedestrian refuge island to be installed in 2009. JN 102709	None	3	2	3	1	0	1
Seaway Dr (BL US-31) & Norton Ave	MDOT - Muskegon TSC	1) Change Existing Signal Schedule From Flash (1 am to 6 am) to a 24/7 Stop and Go Operation. 2) Increase Enforcement at Subject Location.	1) N/A 2) Unknown	1) N/A 2) Coordination with Local Officials to Increase Patrol	1) Flash Schedule Removed - 24/7 Signal Operation on 06/05/2009.	None	3	4	2	3	0	1

S Dehmel Rd & Busch Rd	Saginaw County	1) Add rumble strips on both approach legs of Busch Road. 2) Add stop ahead signs on both legs of Busch Road. 3) Add double stop signs on both legs of Busch Road. 4) Add supplemental signs to stop signs indicating that cross traffic does not stop.	\$5,000	Rumble Strips are frequently blamed for noise disruption at intersection locations.	Rumble Strips, Double Stop signs, and Stop Ahead signs were all added November of 2008.	AN-ST	3	10	2	0	1	0
Douglas Rd & Samaria Rd	Monroe County	Intersection warning signs, upgrade sign reflectivity and install reflective strips on sign posts, install W4-4p signs with existing stop signs, ground-mounted flashing beacons.	\$12,900			AN-ST	4	10	1	1	5	0
Swan Creek Rd & S Fordney Rd	Saginaw County	1) Add "Cross Traffic Does Not Stop" on the back of the signs on far side of intersection. 2) Control access points to the commercial establishment at S.E. quadrant. 3) Install overhead flashing beacons. 4) Double up the "Stop Ahead" signs. 5) Add street name placard to warning signs. 6) Utilize higher reflectivity sheeting for warning signs. 7) Provide larger sight triangle for higher visibility on approaching roadways.	\$30,000	Overuse of signs could create false sense of security at other similar yet unwarranted intersections throughout county. Commercial business may oppose access being reduced to business establishment. Limited right of way at corner prevents the use of large sight triangle clearing options.	Overhead flashing beacons along with supplemental warning signs were recently installed (Fall 2007) at this intersection as a result of an HRRR project. It is expected that this potential remedy will improve long term intersection safety.	HD-LT & AN-ST	4	7	1	0	1	0
I-69 BL & E Lake Lansing Rd	MDOT - Lansing TSC	Run traffic operation model to see if MDOT can close median.	\$10,000-\$25,000	Possible operational issues.		RE-ST	3	4	2	0	0	0
University Dr (M-59) & N Paddock St	MDOT - Oakland TSC				University Dr to be "teed-in" to WB M-59 and signalized to reduce weaving issues. Work to be done w/ JN 80915A.	None	3	4	2	1	0	0
Deerfoot Rd (M-123) & M-28	MDOT - Newberry TSC	1) Construct an offset intersection. 2) Signalize intersection. 3) Construct new roadway with horizontal and vertical curve corrections. 4) Construct a roundabout.	1) \$2,500,000 2) \$150,000 3) \$5,000,000 4) \$1,500,00	1) Purchase of property. 2) Location may not meet warrants. 3) Purchase of property. 4) Purchase of property. Public acceptance of round-about on rural 55 mph.	Vehicles appear to stop at the intersection and then continue into the path of cross-traffic. Past remedies include: transverse rumble strips, dual stop ahead signs, dual stop signs, cross traffic does not stop signs, radius improvement, and relocated utility pole. Stop signs with "cross traffic does not stop" plaques and intersection warning signs have been placed at the intersection. Flashing beacons are being installed in 2009 on the signs along with the overhead beacon being taken down. TSC will continue to monitor the location for any changes.	AN-TN	4	6	1	0	0	0
Meyers Rd & Lyndon St	City of Detroit	Installation of Box Span. Installation of exclusive left-turn lane for southbound Meyers. Raising the utility lines to improve signal head visibility.	\$200,000	Approval from utility company.	Rail road track close to the intersection (on Meyers south of the intersection).	AN-ST	5	4	1	0	2	0
W Davison St (M-8) & Dexter Ave	MDOT - Detroit TSC	Access management - close drives; left-turn phasing; pedestrian refuge islands	\$100,000 for box span	political issues with closing existing drives for existing businesses; utility issues with box span.	Pedestrian refuge islands to be installed in 2009.	None	5	4	1	0	1	0
S Leroy St & W Shiawassee Ave	City of Fenton	Education program through a news article in the local paper to inform people of the possible risks in this area. Additional signing.	\$500	None	None	None	3	3	2	2	2	1
21 Mile & Heydenreich Rd	Macomb County	Remove flash schedule and run signal continuous.	\$500	Increase in delay and rear end crash exposure for 21 Mile.	Upgraded signal installed in June 2009 including left turn phase.	None	3	3	2	1	0	0

N Groesbeck Hwy (M-97) & Elizabeth Rd	MDOT - Macomb TSC	Install Left turn phasing.	\$150,000	Phasing may not meet warrants.	Lansing Signal Unit will order a signal study to determine if left turn phasing is warranted.	HD-LT	4	5	1	0	1	0
M-60 & M-40	MDOT - Coloma TSC	Signalize, Offset stop bar for left turn lane, increase sign size, double up stop signs, add rumble strips, provide reflective sheeting on sign posts.	\$142,500	Signal may not meet warrants, left turns may be made safely without moving stop bar, proper placement of dual stop signs may not be possible.	Existing dual overhead flasher (M-40 stops for M-60). Many AN-ST involved improper stop/poor gap selection by M-40 vehicle.	AN-ST	3	2	2	0	0	0
M-60 & Dailey Rd	MDOT - Coloma TSC	Dual overhead flashing beacons, signalize, ground-mounted flashing beacons, W4-4p signing, Cross road vehicle activated ITS device, provide reflective sheeting on sign posts.	\$331,000	Flashing beacon and/or signal may not meet warrants, location requires further review for ITS devices.	Many AN-ST involved improper stop/poor gap selection by vehicle on Dailey Rd. Location was previously investigated for sight distance.	AN-ST	3	2	2	0	0	0
W 5th St (M-21) & Ann Arbor St	MDOT - Davison TSC	Region signals will look at timing for Ann Arbor St traffic to reduce any confusion to motorists due to proximity of the two existing signals. Lowering the grade of M-21 by demolishing an abandoned RR bridge to the west of this intersection.	\$800,000	Securing safety funds for bridge demo. Approval from RR to abandon structure.	Advanced curve warning sign, divided hwy sign, keep right and chevron signs installed 3/21/07, tree branch removal for sign visibility completed 6/15/09. Since additional signing was installed, there have been no additional run-off type crashes. A vertical curve created by a bridge over an abandoned RR reduces the sightline for EB M-21 motorists.	FXOBJ	3	2	2	1	0	0
Harper Ave & Elizabeth St	Macomb County/ City of St Clair Shores	Install traffic signal, enforcement, driver education	\$50,000	Traffic signal not warranted.		AN-ST	4	4	1	1	0	0
Dequindre Rd & 11 Mile Rd	Macomb County	Protected left turn phase, no turn on red signs.	\$500	Increase in delay and decrease in capacity.	New signal installed in June 2008.	None	4	4	1	0	1	0
E McNichols Rd & E Outer Dr & Conner St	Wayne County/ City of Detroit	Chevron and arrow warning signs to provide better visual guidance. Edge line around southbound curve to improve the visibility of the road deflection.	\$4,000	None	Most crashes occurred at night as vehicles left the roadway.	FXOBJ/ OTURN	4	4	1	2	4	0
Garfield Rd - 85' south of 18 Mile to 132' south of 19 Mile	Macomb County	Access management, convert center left turn lane to median.	\$1,000,000	Difficulty with businesses agreeing to consolidating access points.	Garfield Rd will be retimed in July of 2009. Signal upgrades including push buttons and actuation installed summer 2009.	None	6	5	2	3	0	1
Romeo Plank Rd - 1/4 M south of M-59 to 1/4 M north of Millston Dr	Macomb County				Currently under construction, summer 2009. Increasing from 2 lanes to 5 and straightening out horizontal curves.	FXOBJ/ HD-ON	6	5	2	1	1	0
Rochester Rd - 1060' south of E Long Lake Rd to 530' north Player Dr	City of Troy	Short Term: remove fixed objects within ROW (i.e. trees); Long Term: construct a six (6) lane boulevard to separate NB & SB traffic and remove left turn conflicts.	Short term: \$10,000; Long term: \$40,000,000 for PE, ROW and Construction phases for both projects.	ROW/easement acquisition and federal funding for construction project.	The City has a current project in design and ROW acquisition to construct a six (6) lane boulevard on Rochester from Barclay (north of Wattles) to Trinway (north of Long Lake). Construction is anticipated within the next 5-8 years. A future project to widen Rochester from Trinway (north of Long Lake) to Ottawa (north of Square Lake) is in the planning stages and will be submitted for funding consideration. Construction would not be anticipated for more than 10 years.	Driveway	5	6	2	1	1	0
Alden Hwy - 520' east of Grass River Natural Area Rd to 2770' east of Comfort Rd	Antrim County	Improve the alignment of the roadway or improve signage and pavement markings.	N/A	Environmental constraints prevent changes in alignment.	Additional signs have been provided. Safety project is to be completed installing improved signing and pavement markings.	FXOBJ	4	3	3	4	1	4

Fruit Ridge Ave - 3030' south of 7 Mile Rd NW to 2240' north of 7 Mile NW	Kent County	Tree removal		Land owner approval.		FXOBJ/ HD-ON	4	4	2	1	2	1
Vreeland Rd - 80' east of Maywood Ave to 990' east of Wilson Ave	Wayne County				Crashes resulted from improper decisions - ignoring railroad warning devices, improper U-turn, pedestrian under the influence.	Train/Ped	4	2	2	2	1	0
Bristol Rd - Carmanwood Dr to 150' west of Grand Traverse St (I-475 Ramp)	Genesee County/ City of Burton	Improve pedestrian facilities along Bristol Road. A study would have to be conducted. Possibilities could be a midblock crossing and a pedestrian sanctuary-median. Installation of a traffic signal with pedestrian crossings at Camden.	\$200,000	Pedestrian projects will have to be coordinated with three agencies City of Burton, GCRC and Flint Township.		Ped	4	2	2	1	0	0
South Airport Rd - 350' east of LaFranier Rd/Barlow St to 530' east of Duell Rd	Grand Traverse County	Access Management Study	\$150,000	ROW and multiple private property owners.		None	4	3	5	1	2	0
South I-94 Service Drive - Waters Edge Ln to Dewitt Ave	Wayne County	Installation of street lights and sidewalks.	Not determined - Local issues.	Limited ROW on north side. Grading and drainage issues on south side.	All crashes at issue occurred at night.	None	4	3	2	3	2	0
Broadway Rd - 1900' east of Krull Rd to 250' west of Roberts Rd	St Joseph County	Tree removal		Land Owner Approval		FXOBJ	3	2	2	1	0	2
Lessiter Rd - Dream Isle Dr NE to 1/2 M north of Jenks Rd NE	Kent County				Diamond Grade Fluorescent yellow curve (W1-5) signs, large arrow (W1-6), and chevrons (W1-8) sign were installed in 2008	FXOBJ/ OTURN	3	2	2	2	1	0
Litchfield Rd - 2750' east of Concord Rd to 1/4 M east of Rowe Rd	Hillsdale County	Improve the road surface, widen the shoulders, flatten the roadside slopes and add guardrail on both sides of the roadway.	\$318,000 HRRR 30609-104465A	None	The major safety concern is with motorists eastbound and westbound on Litchfield Road leaving the roadway and entering the water on either side of the roadway. The current horizontal geometry, road surface condition and shoulder condition could attribute to a motorist losing control, particularly when icy and/or slushy conditions exist.	None	3	2	2	1	2	1
Angola Rd - 435' south of Iyopawa Island Rd to 1430' south of Pearl Rd	Branch County	Remove trees and stump(s) in clear zone.	\$1,200/Tree	None	Trees and stump(s) are scheduled to be removed.	FXOBJ	3	2	2	2	2	0
Alden Nash Ave SE - 440' north of Cascade Rd to 430' north of 36th St	Kent County				Diamond Grade Fluorescent yellow curve (W1-5) signs, large arrow (W1-6), and chevrons (W1-8) sign were installed in 2009	FXOBJ/ OTURN	3	2	2	1	1	0
Jefferson Ave - 227' north of Victoria St to 491' south of Dearborn St	City of Detroit	Relocation of utility poles that are to close to the roadway. Improving pavement markings. Implement Road Diet. Delineate utility poles (especially those on the curves). Install curve treatments such as Chevrons. Improve drainage.	\$300,000	Relocation of utility poles. Drainage improvements.	Industrial route - pay special attention to truck traffic.	FXOBJ	3	2	2	3	3	2
Ormes Rd - 580' west of Lewis Rd to 2430' west of Bray Rd	Tuscola County	Short Term: Repaint, sweep, enforcement, education. Long Term: Straighten road, double chipseal, signing upgrade, pave shoulders, install rumble strips.	Short Term: \$1,300 not including enforcement or education. Long Term: \$528,500 not including straightening road.	Availability of enforcement/education resources. Location on Cass River and limited road width. Popularity of treatments with public. Board approval.	Pavement markings scheduled for 2009. Straightening the road has major environmental impacts. Would apply fogseal with chipseal.	FXOBJ/ OTURN	5	6	1	2	0	3
Hayes Rd - 1660' south of Canal Rd/359' N Loyola Dr to 63' north Shoreline Dr	Macomb County	Access management, convert center left turn lane to median, modify signal timings to reduce rear end crashes.	\$1,000,000	Difficulty with businesses agreeing to consolidating access points.	Hayes Rd will be retimed in July of 2009. Signal upgrades including push buttons and actuation installed summer 2009.	RE-ST	5	7	0	1	0	1
S 8 Mile Rd - 80' north of Prairie Rd to 890' south of M-20	Midland County					Ped	3	1	2	1	0	0

Central St - 80' south of Cahalan St to 390' south of John Kronk St	City of Detroit	Improve sidewalks. Create bump out to reduce crossing width for pedestrians and facilitate on-street parking. Provide mid-block crossing at critical locations (locations generating large number of pedestrians traffic) supplemented with ped-actuated crossing signals and pedestrian crossing signs.	\$250,000	Limited right of way and no additional right of way is available. All improvements should be done within existing ROW.	Continue to monitor if school and speed reduction signs are helping to reduce crashes.	Ped	3	1	2	1	0	0
Vernor Hwy - Waterman St to Lansing St	City of Detroit	Create bump out to reduce crossing width for pedestrians and facilitate on-street parking. Provide mid-block crossing at critical locations (locations generating large number of pedestrians traffic) supplemented with ped-actuated crossing signals and pedestrian crossing signs.	\$350,000	Limited right of way and no additional right of way is available. All improvements should be done within existing ROW.		Ped/ Bike	12	9	3	2	0	1
Capac Rd - .58 M south of Gould Rd to 440' south of Hough Rd	St Clair County	Install Reverse Curve Signing for SB traffic, Lessen the severity of the curves by realigning the road, speed enforcement.	\$500, \$300,000-\$400,000 plus right-of-way, Unknown	None. Records show that reverse curve signs were installed in 1983. However, in 2009 the signs were missing. New reverse curves signs with 35 MPH advisory speed plates for SB traffic on the east and west sides of Capac Road north of the Macomb County Line have been installed, availability of enforcement.	The reverse curves on Capac Road at the Macomb County line are in Macomb County (crashes were coded to St Clair County). Capac Road is a major N-S connector in western St. Clair County. Peak traffic volumes in the AM and PM indicate a large commuter movement. 85th percentile speeds range from 60 to 64 MPH on selected road segments.	FXOBJ	3	1	2	2	1	2
Dixie Hwy - 1150' south of Enrico Fermi Dr to 630' north of Swan Creek Rd	Monroe County	Upgrade sign reflectivity	\$3,000			None	5	2	3	2	0	2
28th St - 1030' west of Kalamazoo Ave SE to .8 M east of Kalamazoo Ave SE	MDOT - Grand Rapids TSC	1) Corridor Retiming 2) Separate Traffic and Pedestrians with a Shared Use Path (Sidewalk) 3) Access Management	1) Programmed 2) \$1,500,000 3) \$5,000,000	1) None 2) ROW & Utilities (Programmed) 3) ROW, Property Access & Utilities	1) JN 101124 FY 2010 2) Installation of Sidewalk West of Kalamazoo Ave (JN 75078 & JN 106151 FY 2010) 3) Access Management Plan	None	9	9	6	4	4	0
WB I-94 - 120' east of M-10 to 540' west of Linwood St off Ramp	MDOT - Detroit TSC	Lengthen ramp accels and decels; courtesy patrol; close/reconfigure NB M-10 to WB I-94 with I-94 expansion project; close ramp(s)	Lengthening accels/decels or interchange reconstruction involves bridge reconstruction, ROW, impacts RR; unknown cost	funding; ROW; political issues with closing ramps		FXOBJ/Ped	8	6	4	2	0	2
WB I-94 - 50' east of Scotten St to Livernois Ave	MDOT - Detroit TSC	Cushion wall, drainage improvements, enforcement	Unknown for "new drainage" and cushion wall	Utility issues with "new drainage"; funding/personnel issues with enforcement	Costs unknown since correcting the drainage issues will impact other utilities as well as impacts to traffic and mobility; cushion wall would need to be specifically designed for this site, installed and maintained.	FXOBJ	7	7	4	4	2	4
M-40 - 50' south of 144th Ave to 130' south of 64th St	MDOT - Kalamazoo TSC	Construct service road from truck stop to Interchange Drive, install new traffic signal at M-40 and Interchange Drive, move CAT scales to better facilitate keeping semis in truck stop (Coordinate new semi movements with new signing and pavement marking), apply a bridge treatment to increase friction on overpass, install hatching in the shoulder areas in curb and gutter section.	\$500,000 for the intersection (City of Holland to pay for service road), \$100,000, \$55,000, \$8,000	Funding source for the City and City waiting on study from the local MPO to see if there are other options, agreements with CAT scale company, local businesses are concerned if shoulders are "blocked" drivers will not use them as turn lanes which will impede traffic flow and increase the perceived traffic issues.	Working with the City of Holland on this potential remedy, working with CAT scale company to have work done, hatching remedy being evaluated.	HD-ON	7	15	3	0	1	2

NB US-131 - .94 Mile north of Pine Island Dr to 550' north of Post Dr	MDOT - Grand Rapids TSC	1) Cut Trees on Median Foreslope 2) Install Guardrail on Right Side	1) \$10,000 2) \$100,000	None	Full Reconstruct 2007 (JN 50578) Continue to Monitor this Area.	OTURN/ RE-ST	6	7	4	1	3	3
SB I-75 - 1030' south of Big Beaver Rd exit to 80' east of Livernois Ave	MDOT - Oakland TSC	1) Add delineators on guardrail and TCB 2) Look into potential speed warning system for this curve (and NB I-75) 3) Add chevrons to curve	1) Minimal 2) ~\$500,000 3) Minimal	3) Currently being installed as part of I-75 sign upgrading. No impediments foreseen for 1 and 2 aside from funding.	Curve has advisory sign for 55 mph	FXOBJ	11	12	2	2	2	4
WB I-94 - 1050' north of 11 Mile to 1050' north of 10 Mile	MDOT - Macomb TSC	To address all the drainage problems, I-94 need to be reconstructed from M-102 to north of 11 Mile Road.	\$50,000,000	R&R project have to be programed and funding secured.	Includes I-696 Interchange	FXOBJ	9	9	2	1	2	5
EB I-94 / NB I-69 - 2060' west of Lapeer Rd Ramp Fly-Over to 1160' east of Water St	MDOT - Port Huron TSC	1) Install rumble strips on EB I-94 2) Install Flashing Beacons on Red Speed Zone Ahead signs	1)Rumble strips \$7,500 2)Two Solar powered flashing beacons \$7,200	None	Advance warning signs for Blue Water Bridge traffic back-ups are currently under construction and should be in service 6/30/09 for this area.	RE-ST	6	2	3	1	3	1
SB US-131 - 750' north of Park St to 1990' south of I-96 (EB) off ramp	MDOT - Grand Rapids TSC	2005 Reconstruct and Addition of a Weave Merge Lane (JN 45811, 47541 & JN 81067)	Completed	None	Will continue to monitor this area.	FXOBJ	8	7	2	2	3	0
SB US-31 - 850' north of Shettler Rd to 350' south of I-96 on ramp	MDOT - Muskegon TSC	1) Remove Trees and Relocate Signs 2) Freeway Tower Lighting 3) Interchange Reconstruction	2) \$6,000,000 3) \$150,000,000	2) Utility Availability 3) ROW and Property Access	Trees removed and signs relocated outside of target area in 2008. Glare screen on existing barrier wall is scheduled for repair in 2009.	FXOBJ/ OTURN	6	3	3	1	1	5
WB I-96 - WB I-96/NB I-275 Merge to 6 Mile Rd off Ramp	MDOT - Taylor TSC	Extend left lane 0.95 miles.	\$1,350,000	None	JN 87946, Project Completion, September 2009	None	6	3	3	0	1	1
EB M-8 - 60' west of Rosa Parks Blvd to 815' east of 2nd Ave	MDOT - Detroit TSC	Curve delineation	\$15,000	TSC believes the ramp movements from M-10 to EB M-8 and to M-1 are big factors, but these are not impediments to installing delineation.	Includes M-10 interchange & ramp to Woodward Ave.	None	8	8	2	2	1	3
SB I-75 - 690' south of W Woodward Heights Blvd to 210' south of Meyers Rd	MDOT - Oakland TSC	Speed Warning System	\$500,000	N/A	Advisory signs on curve for 50 mph. Speed Warning System currently being installed at this location - JN 84571A.	FXOBJ	7	6	2	3	2	2
Dort Hwy - 430' north of Hemphill Rd to Elms Dr	MDOT - Davison TSC	Pedestrian Path(s)/Midblock crosswalk locations	\$1,250,000	ROW constraints, Local Maintenance Agreements	Crashes south of Atherton Road are miscellaneous in nature. Pedestrian/Vehicle issues are primarily present between Atherton and Lippincott- This area will be targeted for Safety Funds during the next call for projects.	Ped	9	7	5	6	0	0
Highland Rd (M-59) - 220' west of Airport Rd to 260' west of Crescent Lake Rd	MDOT - Oakland TSC	1) Access management study along corridor; 2) Driveway consolidation as properties redevelop; 3) Road Safety Audit in area	1 and 3 - \$100,000, 2 has no cost to MDOT	None	This segment has a 5 lane cross section and intermittent right turn lanes.	Ped/ AN-TN	4	2	2	1	0	0
NB I-75 - 2030' north of Bristol Rd to 250' north of Miller Rd	MDOT - Davison TSC	Extend guardrail/use of special delineation systems	\$45,000	Securing discretionary funds as well as fund for experimental delineation systems	This stretch of expressway was resurfaced with HMA in 2008 which should increase friction numbers. One crash involved alcohol and occurred when a vehicle ran off the I-69 WB exit ramp to I-75 NB/Miller Road. Will include this location as a possible discretionary job to extend guardrail on ramp along with an upgraded delineation system.	None	7	5	2	1	1	2
WB I-94 - 8 Mile Rd to 1/2 mile west of Vernier Rd	MDOT - Detroit TSC	Correct drainage	Unknown	Utility issues associated with new drainage.		FXOBJ/ OTURN	6	4	2	0	2	3
WB I-196 (Chicago Dr Interchange) - 3120' west of turn around east of Chicago Dr to 1950' west of Chicago Dr on-Ramp	MDOT - Grand Rapids TSC	Upgrade Chevrons and Re-evaluate Sign Placement	\$1,500	N/A	Continue to monitor this area.	FXOBJ	6	6	2	1	1	4

SB I-75 - 205' south of Holbrook St to 950' south of Clay St on ramp	MDOT - Detroit TSC	Close Clay entrance ramp; reconstruct to widen I-94; eliminate entrance/exit ramps near I-75/I-94 interchange	Unknown	Political issues with closing existing ramps; reconstruction to widen I-75 or I-94 is a funding issue	As part of the ongoing I-94 expansion study, this interchange is proposed to be reconstructed as well as I-94 from I-96 to Conner Rd.	RE-ST/OTURN	6	6	2	1	1	2
NB I-75 - 2320' north of Van Horn Rd to 2330' north of West Rd	MDOT - Taylor TSC		None	None	Crashes incorporated a two year period of confined traffic during a freeway reconstruction.	RE-ST	6	6	2	0	0	0
SB I-275 - 540' north of Joy Rd to 550' south of Koppernick Rd	MDOT - Taylor TSC	Cable Barrier	\$1,470,000	None	JN 103104, project completion of Nov.15, 2009.	None	5	3	3	1	2	1
EB I-94 - 620' east of Greenfield Rd to 2150' east of Schaefer Rd	MDOT - Taylor TSC	Median side rumble strips, drainage structure cleanout	\$500,000	Existing median shoulder width is a minimal 6' and rumble strips may not fit.	Maintenance has been requested to clean out the drainage structures.	None	6	5	2	3	2	2
WB I-94 - 850' east of Greenfield Rd to 1180' east of 1st Oakwood Blvd off ramp	MDOT - Taylor TSC	Median side rumble strips, drainage structure cleanout	\$500,000	Existing median shoulder width is a minimal 6' and rumble strips may not fit.	Maintenance has been requested to clean out the drainage structures.	None	5	4	2	0	0	1
23 Mile Rd - 240' west of Gratiot Ave to 1/4 mile east of Donner Rd/EB on ramp	MDOT - Macomb TSC	Consolidate/Remove approaches and install left-turn prohibition signing.	\$543,000	MDOT is working with Chesterfield Twp to approach the businesses for their approval on these recommendations.	Funding has not been secured for these recommendations.	AN-DR/ Ped	5	4	2	0	0	0
WB I-94 - 375' west of Wayne Rd off ramp to 850' west of Shook Rd	MDOT - Taylor TSC	Placement of Cable Barrier\Guardrail	\$150,000	None		None	5	6	2	1	0	0
NB US-23 - 1000' south of M-50 to 400' north of turnaround / .81 M north of M-50	MDOT - Brighton TSC	Install Median Barrier	\$200,000	None	Includes M-50 interchange.	None	5	5	2	1	0	0
NB I-75 - 120' north of Waldon Rd to 850' north of turnaround / .76 M north of Sashabaw Rd	MDOT - Oakland TSC	Continuous rumble strips	Cost TBD	None	Includes Sashabaw Rd Interchange; continuous rumble strips needed from Joslyn to M-15. To be added with next CPM.	None	5	4	2	1	2	1
M-72 - 1/4 M east of Baker Creek Rd to 1850' west of Townline Rd	MDOT - Traverse City TSC	Centerline Rumble Strips		None	Placed 2009.	HD-ON	4	6	4	1	1	1
East Rd (M-13) - 1/4 M south of Moore Rd to 1/4 M south of Houlihan Rd	MDOT - Bay City TSC	Centerline Rumble Strips	\$2,500	2009 Program Completed	Will Schedule Work for 2010.	HD-ON	4	3	4	0	0	1
Additional Notes:	*ALL drivers or passengers regardless of injury were reported when not wearing a seatbelt or helmet (motorcycle crashes). Use for remaining drivers and passengers could be listed as yes, unknown or not applicable.											
	**Speed related crashes involve vehicles whose hazardous action was listed at "Speed too fast" or when the crash narrative indicated a driver was speeding.											