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| Conrad Rd & US-12 | MDOT - Coloma TSC | Intersection warning signs, "dead end" sign, flashing beacon or ground mounted flashing beacons, rumble strips | $90,000 to $105,000 | Flashing beacons may not meet warrants | Angle 5 4 2 1 0 0 | Fatalities | Acids and/or Drugs 0 0 0 0
| Gratiot Ave (M-3) & Mount Elliott St | MDOT - Detroit TSC | Intersection, Head-up left on Mt. Elliott and left-turn again for Turn-Or-Stop. Close driveway, Box sign | $180,000 | Backing/encroachment issues with enforcement. Signal may not meet warrants. Utility issues with two open poles. Poor visibility issues with closing existing driveways for existing businesses | Ped/Bike 5 4 2 2 1 0 | None | None 0 0 0 0
| Springfield St & Chancellor St | City of Detroit | Right of way and no additional right of way available. All improvements should be done within existing ROW. | $250,000 | Rail road bridge requires maintenance | Ped/Bike 5 4 2 2 1 0 | None | None 0 0 0 0
| S Beech Daly Rd & Michigan Ave (US-12) | MDOT - Taylor TSC | Signal Upgrade to Box Span with Pedestrian countdowns, Enforcement | $100,000 | None | Currently in design, letting date of Sept. 2008, JN 88073 | None 4 3 2 2 1 0 | None 0 0 0 0
| N Rd & Erin Rd | Genesee County | Remove trees in NE quadrant. Redesign pavement markings on Erin Road for better alignment | $10,000 | None | None 0 0 0 0 | None | None 0 0 0 0
| Gottridge Rd & Plymouth Rd | Washtenaw County | Install crash attenuators on both ends of the bridge piers. Install single level flashers (yellow for Gottridge and red for Chamberlain). Construct concrete median barrier along Gottridge between the bridge piers and extend the sidewalk on the NE quadrant to prevent vehicles making illegal left turn into Chamberlain. | $150,000 | None | None 0 0 0 0 | None | None 0 0 0 0
| Inkster Rd & Michigan Ave (US-12) | MDOT - Taylor TSC | Signal Upgrade to Box Span with Pedestrian countdowns, Enforcement | $100,000 | None | Currently in design, letting date of Sept. 2008, JN 88073 | None 4 3 2 2 1 0 | None 0 0 0 0
| Chippewa Hwy (US-31) & S Main Rd | MDOT - Cheboygan TSC | Upgrade and replace all intersection signing, provide flashing beacon, provide transverse rumble strips to stop controlled approaches and clear brush from view of drivers | $250,000 to $310,000 | May not meet warrants for a flashing beacon. Right turn designation lanes and a center left turn lane are to be constructed at the intersection in 2014. | Angle 3 4 4 1 2 0 | None | None 0 0 0 0
| Cadillac Rd & 11 Mile Rd | Macomb County | None | $150,000 to $310,000 | May not meet warrants for a flashing beacon. | Angle 3 4 4 1 2 0 | None | None 0 0 0 0
| Hill Rd & Elms Rd | Macomb County | None | $10,000 | None | None 0 0 0 0 | None | None 0 0 0 0
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| Consolidated Rail Corporation & Livernois Ave | Detroit         | 1) Construct concrete median along Livernois between the bridge piers to prevent vehicles hitting bridge piers.
                      |                 | 2) Construct curbs on both sides of Livernois curb lane and improve drainage for preventing accumulation of water and ice under the bridge. 3) Construct full-width sidewalks on both sides to provide pedestrian-friendly environment and to prevent growth of weeds. 4) Install overhead flashing beacons for vehicle safety enhancement and to provide pedestrian-friendly environment. | $250,000 | None                         | 3 3 3 2 1 1 1                                                      |
| S Casson St & Van Dale St (M-85) | Detroit TSC     | Install signs, pole, median strips and dual striping.                               | $5,000-$10,000 | East County permission to install rumble | 4 7 1 0 0 0 0 0                                                      |
| E Davison St & Van Dyke St (M-53) | Detroit TSC     | Target arrow facing EB traffic; Newer/bigger STOP sign; STOP AHEAD sign on EB Davison Street. | $2,500  | None                         | 48 1 10 0 0 0 0                                                      |
| Haslett Rd & Perry Rd (M-62) | Lansing TSC     | Reflectors on signs, posts, rumble strips and dual striping.                       | $5,000-$10,000 | None                         | 47 1 00 0 0 0                                                      |
| Seven Creeks Rd & S Forney Rd | Saginaw County  | Cut vertical curve to west of the intersection. Provide fasleded up left turns, improves traffic through and right turn lanes. at the intersection with installation of an overhead flashing beacon. Improved traffic signage, med. drainage improvements, new HMA paving and new pavement markings. | $30,000 | None                         | 3 8 2 0 0 0 0                                                      |
| Phoenix Rd & County Road 987 | Van Buren County | Add additional "Cross Traffic Does Not Stop" signs. Increase the overall visibility of the signs and commercial establishments at S.E. quadrant. 2) Install overhead flashing beacons. 3) Double up the "Stop Ahead" sign. 4) Add Street Name. 5) Reduce to warning signs. 6) Install higher reflectivity sheeting for warning signs. 7) Provide larger sight triangle for higher visibility on approaching motorists. | $45,000 | None                         | 3 8 2 0 0 0 0                                                      |
| Ripon Rd (M-142) & Pinnebog Rd | Cass City TSC   | Add additional "Cross Traffic Does Not Stop" signs. Increase the overall visibility of the signs and commercial establishments at S.E. quadrant. 2) Install overhead flashing beacons. 3) Double up the "Stop Ahead" sign. 4) Add Street Name. 5) Reduce to warning signs. 6) Install higher reflectivity sheeting for warning signs. 7) Provide larger sight triangle for higher visibility on approaching motorists. | $500 for the signs and pavement markings and $24,000 for the possible signal work | MDOT signal and approval | 3 5 2 0 2 0                                                      |
| Silver Lake Rd & Zimmerman Rd | Grand Traverse County | Stop bar phasing for both legs.  | $300,000 | Applied for grant in 2008 | HD-LT 3 4 2 1 0 3 0 3                                                      |
| E Lake Lansing Rd & I 69 BL | Lansing TSC     | Run traffic operation model to see if MDOT can close median.                     | $10,000-$25,000 | Possible operational issues | 4 3 2 0 0 0 0 0                                                      |
| Swan Creek Rd & S Hemlock Rd | Saginaw County  | (1) Add "Cross Traffic Does Not Stop" sign on the back of the signs on opposite side of intersection. 2) Install overhead flashing beacons. 3) Double up the "Stop Ahead" sign on the back of the signs on opposite side of intersection. 4) Add Street Name. 5) Reduce to warning signs. 6) Install higher reflectivity sheeting for warning signs. 7) Provide larger sight triangle for higher visibility on approaching motorists. | $15,000 | None                         | 3 4 2 0 0 0 0 0                                                      |
| Gratiot St & Dexter Ave (Offramp) | Detroit         | Vertical mounted flashing beacons for stop signs and warning signs. Monitor vegetation and remove. Reflective strips on stop sign posts and warning sign posts. | $30,000 | None                         | 4 4 1 0 2 3 0 0                                                      |
**Message 1:**

A major reconstruction project is in the design phase for 1-96/94 in the area of concern.  It is expected to provide for 5 lanes with a high-speed freeway, a major influx of traffic, and a high-speed freeway.

**Message 2:**

The project involves the installation of a median cable barrier and the replacement of existing guardrails.

**Message 3:**

The project is focused on improving access management strategies in the area.  It includes the installation of rumble strips and the addition of signage.

**Message 4:**

The project is aimed at improving access management in the area.  It involves the installation of rumble strips and the addition of signage.

**Message 5:**

The project is focused on improving access management strategies in the area.  It includes the installation of rumble strips and the addition of signage.
**SB I-75 - 1030' S Big Beaver Rd exit to 80' E Liv**

MDOT - Oakland TSC

Placement of a speed advisory warning system. $825,000 None

The concentration of front-impact type crashes in this section of I-75 are the results of standing water on the roadway. Drivers are losing control of their vehicles and striking the median barrier wall due to hydroplaning. We have corrected the standing water through this and other sections of I-75 by reconstructing the existing lanes and the inside & outside shoulders to provide positive drainage into the new valley gutter. We are continuing to monitor this location to ensure these types of crashes have been reduced by the reconstruction.

**WB I-94 - 140' S 10 Mile exit ramp to 460' N 9 Mile**

MDOT - Macomb TSC

The concentration of fixed object type crashes in this section of I-94 are the results of standing water in the roadway. Drivers are losing control of their vehicles and striking the median barrier wall due to hydroplaning. We have corrected the standing water through this and other sections of I-94 by reconstructing the outside lane and the inside & outside shoulders to provide positive drainage into the new valley gutter. We will continue to monitor this location to ensure these type of crashes have been reduced by the reconstruction.

**EB I-696 - Bermuda/Mohawk Rd to I-75 mainline**

MDOT - Oakland TSC Congestion mitigation. Unknown None

4-5 lane section for EB I-696 highest ADT in state with 205,000 vehicles; weaving movements with I-75 interchange; this is a depressed freeway section

**NB US-131 - 1 Mile E River Bank Rd to 80' W River Dr. to 110 Mile**

MDOT - Grand Rapids TSC

Unknown Existing structure widths (eave/eave) 120' Rollout, modified

**SB US-131 - 750' N of Park St to 1890' S I-96**

MDOT - Grand Rapids TSC

Unknown Existing structure widths SS-SM

**Greenpack Hwy - 820' N 10 Mile Rd to 11 Mile Rd**

MDOT - Macomb TSC

To further guard public safety it is recommended to implement access management strategies by consolidating commercial frontages.

**SB US-31 - 850' N Shettler Rd to 350' S I-96**

MDOT - Muskegon TSC

Short Term: Remove two trees and the relocation of two signs. Long Term: Possible later closure of the interchange and the relocation of the access management study.

**5 11th St - 470' S Fulkerson Rd to 600' S Bell R**

MDOT - Coloma TSC

Enforcement, Access Management Study, Construct a Boulevard

$120,000 for Access Management Study

**Alden Hwy - Waterman St to Lansing St**

City of Detroit

1) Create bump out to reduce crossing width for pedestrians and facilitate on-street parking. 2) Provide mid-block crossing and pedestrian traffic signals. 3) Install pedestrian crossing signs and pedestrian crossing signals. 4) Limited right of way and no additional right of way is available. All improvements should be done within existing ROW.

$350,000

**Bristol Rd - Carmanwood Dr to 150' W Grand River**

City of Burton and Flint Twp.

Improve pedestrian facilities along Bristol Road. A study would have to be conducted. Possible improvements could be a mid-block crossing and a pedestrian protective island.

$40,000

**South I-94 Service Drive - Waters Edge Ln to D St**

Wayne County

Installation of street lights and/or sidewalks. Unknown

Unknown

**Hayes Rd - 350' N Stadler Rd to 1650' S Canal Rd**

Macomb County

Unknown

Unknown

**Lake St - 725' S Ascot St to 290' N Keel**

Wayne County

Education program for both pedestrians and drivers.

Unknown

Unknown

**Haggart Ave - 580' W Hoover**

Wayne County

Installation of street lights and/or sidewalks.

Unknown

Unknown
**Upgrade advance curve warning signs to fluorescent yellow (Type IX Sheeting). Install target arrows and chevrons (Type IX Sheeting) in the curve. Install raised pavement markers on the centerline. Relocate a “Do Not Pass” so it doesn’t block sight of the curve sign.**

$5,000 for upgrading, installation, and relocation of signs. $1,750 for installation of Centerline Raised Pavement Markers.

This will be done with ROCO funds because of the relatively low cost.

**Install fluorescent yellow curve (W1-2) signs, large arrow (W1-6), and chevrons (W1-8) signs. Remove trees.**

Signs - $2,000

Tree removal - $5,000

Trees - The public dislikes tree removal and some may be on private property.

**An upgrade would cover this remaining three mile section of proposed All Season roadway connecting state route M-43 to the south and Interstate I-69 to the north. Four miles of the corridor has been contracted in 2009 and 2010. This remaining three miles has not been identified for improvements in the RTF’s four year plan and is not expected to be identified for some time.**

**Upgrade existing 4’ aggregate shoulders to 6’ HMA; Flatten existing 1 on 3 non-recoverable front slope to recoverable 1 on 4; Remove existing fixed objects within ROW including trees, rocks and other objects.**

$925,000

**The public dislikes tree removal and some may be on private property.**

**Add a dedicated left center turn lane to the existing roadway and remove the existing super elevated curve within the project. The fill or borrow for this super elevated curve would be placed on the existing roadway and the existing roadway would then be realigned to the new roadway.**

$2,439,000 (projected 2012 dollars)

**Also, this is an established commercial strip.**

**Add a dedicated left center turn lane to the existing roadway and remove the existing super elevated curve within the project. The fill or borrow for this super elevated curve would be placed on the existing roadway and the existing roadway would then be realigned to the new roadway.**

$2,439,000 (projected 2012 dollars)

**Also, this is an established commercial strip.**

**Additional Notes:**

- Lists drivers or passengers in crashes of type A or greater only when not wearing a seatbelt or helmet (motorcycle crashes). Use for remaining drivers and passengers could be listed as yes, unknown, or not applicable.

- Driver related crashes include vehicle whose responsible driver was killed or “killed for fear” or when the description indicated a driver was speeding.

**Upgrade to high intensity fluorescent signs. 2) Install flashing beacons with sign upgrade and black backplates for east/westbound directions.**

1) $1,200

2) $45,000

Flashing beacon may not meet warrants.

2 each 36” stop ahead and stop signs placed following 2006 MCRC study, flashing beacons did not meet warrants in 2009.

**Upgrade existing 1/2 mile of 1 on 5 in left shoulder to 1 on 4. Place emphasis on snow/ice control. 2) Construct right turn lane.**

1. None

2. $120,000.00

Possible ROW acquisition, warranting right turn lane to dirt road (Cutler Rd).

Two Crashes were weather related (icy roads). One was a motorcycle rear-ending right turning car.