

GRAND REGION

The Grand Region serves eight counties in west Michigan. These include Ionia, Kent, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, and Ottawa Counties. Located within the Grand Region are the metropolitan areas of Grand Rapids, Holland, and Muskegon, which make up one of the largest economies in the upper midwest. Major economic sectors in the Grand Region include manufacturing, retail, health care, agriculture, and tourism. Major state trunklines include: I-96, I-196, US-31, US-131, and the M-6 freeway.

Five-Year Road and Bridge Program

The road and bridge preservation projects identified in this 2010 to 2014 Five-Year Transportation Program for the Grand Region total approximately \$262 million. Investment is allocated in the following manner:

GRAND REGION	TOTAL 2010-2014
ROAD PRESERVATION	\$142 MILLION
BRIDGE PRESERVATION	\$49 MILLION
ROAD AND BRIDGE CPM	\$71 MILLION
TOTAL 2010-2014	\$262 MILLION

(Amounts are rounded to the nearest million dollars
(Road Preservation includes Roadside Facilities)

Capital Preventive Maintenance (CPM) projects are planned for a significant number of pavements and structures that do not require extensive repairs during this Five-Year Transportation Program period. CPM projects are short-term fixes, adding from five to 10 years of life to a pavement or maintaining the existing structure condition.

GRAND REGION	Route Miles OF Road	Number of Bridges and Structures
TOTAL IN REGION	937	767
SCHEDULED WORK	94	35
PERCENTAGE OF REGION	10%	5%



The 2010-2014 program for road preservation work reflects approximately 94 (ten percent) of the Grand Region's more than 937 route miles of state trunklines during the next five years. The 2010-2014 program for bridge preservation work will address 35 (five percent) of the region's 767 trunkline bridges and structures.

There are also a number of programs that are selected based on statewide priorities or where project identification is completed throughout the year. These investments are not reflected above, but are included in the statewide investment strategy. Below is a brief description of major preservation projects that are currently planned for the 2010-2014 program.

2010

The following projects listed below are funded with **ARRA** dollars and will be constructed in FY 2010.

Reconstruction and widening will begin on **the I-196 eastbound lanes from Grand River to Fuller Avenue as well as the westbound lanes from Monroe Avenue to Fuller Avenue in downtown Grand Rapids**. Planned improvements include an additional through lane in both directions and weave/merge lanes between interchanges to improve freeway operations and safety. As part of the 2010 work, I-196 bridge replacements are planned for the Coit, Lafayette, and Eastern Avenue structures. These projects will include aesthetic and sidewalk enhancements through local stakeholder partnerships. Improved freeway lighting will also be installed as part of this project.

M-11 (28th Street): Pavement rehabilitation and sidewalk replacement/expansion, in cooperation with the City of Grand Rapids, between Division Avenue and Kalamazoo Avenue.

US-31 Improvements: New cable median barrier will be added from I-96 to Marquette Avenue in Muskegon County to improve freeway safety.

In Ottawa County: I-96 over M-11 westbound is scheduled for substructure repairs and painting. M-121 (Chicago Drive) from 40th Avenue to Rush Creek in Hudsonville will be rehabilitated with joint repairs and resurfacing. M-104 will also be resurfaced from 144th east to I-96.

M-57 over the White Pine Trail: This bridge will have major rehabilitation work done, including: deck overlay, joint replacement, pin and hanger replacement, and painting.

Other road and bridge projects planned for 2010 are listed below. These projects will be funded with regular federal and state dollars.

M-21 Bridge Improvements: Bridge deck and beam replacements are planned for two structures over the Flat River within the City of Lowell along M-21.

M-20 (Schrader Creek): Alternative evaluation will continue and design engineering will begin in order to provide plans to correct flooding at Schrader Creek. Construction will depend on future funding levels statewide.

M-21 Bridge in Kent County: The M-21 Bridge over the Grand River in Ada will be replaced, and a non-motorized facility added to the new bridge with federal enhancement funds, in partnership with Ada Township. Work will begin on this project in 2010 with the majority of construction taking place in 2011.

M-21 in Ionia County: The segments from M-66 (Dexter Street) to Lovell Street and from the East Kent County line to Hawley Road will be rehabilitated, continuing the projects started in 2009.

2011

US-131 Freeway Grand Rapids Area:

This important urban corridor is scheduled for improvements, including major bridge work scheduled for 2011 on the Franklin, Hall, Burton, 32nd and 36th Street bridges. Freeway lighting improvements will also take place from I-196 north to Ann Street.

I-196 Freeway Bridge Replacement: Building on the 2010 reconstruction work along this corridor, the bridge over I-196 at Diamond Avenue will be replaced. This project is being funded with ARRA funds.

M-66 in the City of Ionia: Work continues on M-66 in Ionia County. One half mile of M-66 from the Grand Rapids Eastern Railroad Crossing north to M-21 will be reconstructed in 2011.

US-31 in Oceana County: Six miles of US-31 from Polk Road to Monroe Road will be reconstructed, including substructure repairs at the Monroe Road Bridge.

M-121 (Chicago Drive) in Ottawa County: The segment from 40th to 80th Avenue will be rehabilitated in 2011 and the project will be funded using 2010 dollars, continuing the 2010 project started in Hudsonville in 2010.

2012

Montcalm County US-131 Corridor Projects:

Starting from Cannonsville Road and heading north to M-46 approximately five miles will be reconstructed, drainage improved, guardrail replaced and ramps extended in 2012. Major deck rehabilitation for US-131 over Tamarack Creek bridges will also be constructed in 2012.

US-131 Freeway Grand Rapids Area: The 100th Street Bridge over US-131 in southern Kent County will be repaired in 2012 with structure repairs and deck patching. Major rehabilitation, deck overlay, and railing replacement is scheduled for the CSX Railroad bridge, located immediately south of Wealthy Street in downtown Grand Rapids. Substructure repairs and railing replacement are also planned for the 6th Street Bridge, north of I-196, in Grand Rapids.

2013

M-21 Bridge Project: In 2013: The beams and deck of the Grand Rapids Eastern Railroad Bridge, one mile east of I-96 in Kent County, will be replaced.

US-31 in Ottawa County: The section from Lakewood Boulevard north to Quincy Street is scheduled for reconstruction in 2013.

M-11 in Kent County: M-11 (28th Street) is scheduled to be resurfaced from M-37 (East Beltline) east to Patterson Avenue and reconstructed from Patterson Avenue to I-96.

2014

US-131 in Mecosta County: Six miles of US-131, beginning at the Montcalm/Mecosta county line, will be resurfaced in 2014.

US-31 in Grand Haven: Approximately one mile of this four lane boulevard roadway, from Slayton Street north to the South Channel Bridge, is scheduled to be reconstructed in 2014.

I-96 Bridge Project in Kent County: The M-50 Bridge, in southeastern Kent County, is scheduled for replacement in 2014.

CAPACITY IMPROVEMENTS AND NEW ROADS

M-231 over the Grand River in Ottawa County:

Design of a new highway segment between M-45 and I-96, as well as design of operational improvements on existing US-31 in Holland and Grand Haven, will commence in 2010 following Federal Highway Administration approval of the Final Environmental Impact Statement. Approval is anticipated in late 2009 or the early part of 2010. Funding constraints have limited the initial construction to the building of the bridge approaches and substructure for the new Grand River crossing. Funding of the remainder of the project will be included in a future Five-Year Plan. The new bridge will be located east of the City of Grand Haven and construction is scheduled to commence in late 2010.

I-196/I-96 Corridor Improvement in Kent

County: Design work for the reconstruction of I-196 from US-131 east to Fuller Avenue is under way. This design also includes the option of adding an additional through lane, per the Environmental Assessment, pending the identification of additional funds. Design work is also underway for

I-196 between Fuller Avenue and I-96. A portion of the project on I-196 from US-131 to Fuller was funded through the American Recovery and Reinvestment Act. The project will be constructed incrementally as funding becomes available.

I-96/US-31 @ Sternberg Road in Muskegon

County: Studies of feasible alternatives will continue. MDOT is continuing to work with local and federal officials to identify improvement opportunities in the vicinity of US-31/I-96 and Sternberg Road in Muskegon County. Transportation system improvement plans are also being coordinated with development plans by the Little River Band of Ottawa Indians.

I-196 @ Baldwin Street in the City of Grand

Rapids: Construction of two bridges and reconstruction and widening of portions of Baldwin Street began in 2007. Interchange construction and the reconstruction and widening of two bridges on I-196 began in April 2008. The westbound off ramp is open to traffic. The eastbound I-196 bridges over Buck Creek and the CSX railroad are being completely replaced and a new structure will be constructed to carry traffic from Baldwin Street to eastbound I-196. A new weave/merge lane will be constructed on eastbound I-196 between the new Baldwin Street ramp and M-11. New retaining walls also will be constructed along with the repair of the 36th Street bridge. The entire project will be complete in late 2009.

US-131 at 44th Street in the City of Grand

Rapids: Construction began in April 2009. The widening of the 44th Street Bridge is expected to be completed at the end of 2009. This interchange will be transformed from a diamond interchange to a single point urban interchange in conjunction with a local project that will add turn lanes to improve operations.

2010-2014 ROAD & BRIDGE PROGRAM

Repair and Rebuild - Roads and Bridges

GRAND Bridge - Replacement and Rehabilitation

COUNTY	ROUTE (COMMON NAME)	DIR.	LOCATION	TYPE OF WORK	LENGTH	2010	2011	2012	2013	2014
IONIA	I-96		I-96 EB OVER CSX RAILROAD (ABANDONED)	BRIDGE REMOVAL	0.028			CON		
IONIA	I-96		I-96 WB OVER CSX RAILROAD (ABANDONED)	BRIDGE REMOVAL	0.028			CON		
IONIA	I-96		I-96 OVER PORTLAND TRAIL	NEW STRC-EXTG RTE	0.028			CON		
KENT	I-196 (Gerald R Ford Freeway)	FES	DIAMOND AVENUE OVER I-196	BRIDGE REPLACEMENT	0.001	CON				
KENT	I-296/US-131 NB (US-131 NB)		I-296 NB (US-131 NB) OVER 6TH AVENUE	SUBSTRUCTURE REPAIR	0.000			CON		
KENT	I-96		I-96 EB OVER M-11	OVERLAY - DEEP	0.000	CON				
KENT	I-96		I-96 WB OVER M-11	OVERLAY - DEEP	0.000	CON				
KENT	I-96 (I-96)		LEONARD STREET OVER I-96	SUBSTRUCTURE REPAIR	0.000			CON		
KENT	I-96 (I-96 WB)		I-96 WB OVER GTW RAILROAD	SUPERSTRUCTURE REPAIR	0.000	CON				
KENT	I-96 (I-96)		WHITNEYVILLE AVENUE OVER I-96	OVERLAY - DEEP	0.000		CON			
KENT	I-96 (I-96)		M-50 OVER I-96	BRIDGE REPLACEMENT	0.000					CON
KENT	M-21		M-21 OVER FLAT RIVER	SUPERSTRUCTURE REPLACEMENT	0.000	CON				
KENT	M-21		M-21 OVER FLAT RIVER	SUPERSTRUCTURE REPLACEMENT	0.000	CON				
KENT	M-21		M-21 OVER GRAND RIVER	BRIDGE REPLACEMENT	0.000	CON				
KENT	M-21		M-21 OVER GTW RAILROAD	SUPERSTRUCTURE REPLACEMENT	0.087				CON	
KENT	US-131		I-196 BS (FRANKLIN) OVER CSX RR & US-131, I-196 BS	DECK REPLACEMENT	0.000		CON			
KENT	US-131		BURTON STREET OVER US-131	DECK REPLACEMENT	0.000		CON			
KENT	US-131		HALL STREET OVER US-131 AND CENTURY AVENUE	DECK REPLACEMENT	0.000		CON			
KENT	US-131		36TH STREET OVER US-131	BRIDGE REPLACEMENT	0.000		CON			
KENT	US-131		US-131 OVER CSX RAILROAD	OVERLAY - DEEP	0.231			CON		
KENT	US-131		32ND STREET OVER US-131	MISCELLANEOUS REPLACE	0.000	CON				
KENT	US-131 (US-131 NB and SB)		100TH STREET OVER US-131	SUBSTRUCTURE REPAIR	0.000			CON		
MONTCALM	M-57 (M-57)		M-57 OVER BUTTERNUT CREEK	CULVERT REPLACEMENT	0.000					CON
MONTCALM	US-131		US-131 NB OVER TAMARACK CREEK	DECK REPLACEMENT	0.687			CON		
MONTCALM	US-131 (US-131 SB)		US-131 SB & M-46 SB OVER TAMARACK CREEK	OVERLAY - DEEP	0.000			CON		
MUSKEGON	US-31 BR		US-31 BR WB OVER SOUTH BRANCH MUSKEGON RIVER	OVERLAY - DEEP	0.000	CON				
MUSKEGON	US-31 BR		US-31 BR EB OVER SOUTH BRANCH MUSKEGON RIVER	OVERLAY - DEEP	0.000	CON				
MUSKEGON	US-31 BR		US-31 BR EB OVER MUSKEGON RIVER	BRIDGE REPLACEMENT	0.000	CON				
MUSKEGON	US-31 NB (US-31 NB)		US-31 NB OVER MID MICHIGAN RAILROAD	SUBSTRUCTURE REPAIR	0.000			CON		
MUSKEGON	US-31BR (Colby Street)		US-31 BR OVER CSX RAILROAD (ABANDONED)	SUPERSTRUCTURE REPLACEMENT	0.000		CON			
OCEANA	US-31 (US-31 NB)		US-31 NB OVER US-31 BUSINESS ROUTE (MONROE ROAD)	SUBSTRUCTURE REPAIR	0.000		CON			
OCEANA	US-31 (US-31 NB and SB)		WEBSTER ROAD OVER US-31	MISCELLANEOUS REHABILITATION	0.000			CON		
OTTAWA	I-96 (I-96 WB)		I-96 WB OVER M-104	OVERLAY - DEEP	0.000			CON		
OTTAWA	US-31 (US-31)		TAFT ROAD OVER US-31	OVERLAY - SHALLOW	0.000			CON		
					1.034					

2010-2014 ROAD & BRIDGE PROGRAM

Repair and Rebuild - Roads and Bridges

GRAND Repair and Rebuild Roads

COUNTY	ROUTE (COMMON NAME)	DIR.	LOCATION	TYPE OF WORK	LENGTH	2010	2011	2012	2013	2014
IONIA	I-96 EB		AT THE SARANAC REST AREA #532	ROADSIDE FACILITIES - IMPROVE	0.540			CON		
IONIA	M-21 (BLUE WATER HIGHWAY)		KENT COUNTY LINE EAST TO PINCKNEY ROAD	RESURFACE	2.648	CON				
IONIA	M-21 (Blue Water Highway)		PINCKNEY ROAD EAST TO HAWLEY HIGHWAY	RESURFACE	2.345	CON				
IONIA	M-21 (BLUE WATER HIGHWAY)		DETMERS ROAD EAST TO LINCOLN AVENUE	RESURFACE	3.174		CON			
IONIA	M-21 (Lincoln Avenue)		M-66 (DEXTER STREET) EAST TO LOVELL STREET	RESURFACE	1.338	CON				
IONIA	M-66 (Dexter Street)		SOUTH OF GRE RR NORTH TO M-21	RECONSTRUCTION	0.520		CON			
IONIA	M-91		M-44 TO ELLIS ROAD	RESTORATION AND REHABILITATION	1.195		CON			
KENT	M-11 (28TH STREET)	FES	DIVISION AVENUE EAST TO KALAMAZOO AVENUE	RESURFACE	1.849	CON				
KENT	M-11 (28th Street)		M-37 EAST TO I-96 (GAP PATTERSON AVE)	RESTORATION AND REHABILITATION	2.335				CON	
KENT	M-44 CONN (Plainfield Avenue)		I-96 TO AIRWAY ST	RESURFACE	2.656				CON	
KENT	M-44 CONN (Plainfield Avenue)		AIRWAY ST TO M-44	RESURFACE	1.529					CON
MECOSTA	US-131		S MECOSTA CO LINE TO 6 MILE RD	RESTORATION AND REHABILITATION	6.061					CON
MECOSTA	US-131 OLD (Northland Drive)		19 MILE TO MECOSTA/OSCEOLA COUNTY LINE	RESURFACE	5.040			CON		
MONTCALM	M-66 (Sheridan Road)		M-57 TO SHERIDAN NORTH VILLAGE LIMITS	RESURFACE	2.553				CON	
MONTCALM	M-91 (Greenville Road)		ELLIS ROAD TO SNOWS LAKE ROAD	RESURFACE	2.163		CON			
MONTCALM	US-131 (US-131)		PIERSON ROAD NORTH TO CUTLER ROAD	MISCELLANEOUS	9.733		CON			
MONTCALM	US-131 NB (US 131 NB)		NORTH OF CANNONVILLE RD TO SOUTH OF M-46	RESTORATION AND REHABILITATION	5.448			CON		
MONTCALM	US-131 SB (US-131 SB)		NORTH OF CANNONVILLE ROAD TO SOUTH OF M-46	RESTORATION AND REHABILITATION	5.390			CON		
MUSKEGON	US-31 BR (Colby Street)		HALL STREET TO DIVISION STREET	RECONSTRUCTION	0.758		CON			
MUSKEGON	US-31 BR (Whitehall Road)		STANTON BLVD TO US-31	RESURFACE	2.047				CON	
NEWAYGO	M-82 (48th Street)		M-120 EAST TO INDUSTRIAL DRIVE	RESURFACE	3.144					CON
OCEANA	US-31		POLK RD TO N BRANCH OF PNTWTR RVR	RECONSTRUCTION	5.889		CON			
OCEANA	US-31		S OF POLK RD TO N BRANCH OF PNTWTR RVR	MISCELLANEOUS	2.211	CON				
OCEANA	US-31 BR (Polk Road)		US-31 TO JOHNSON ST (HART)	RESTORATION AND REHABILITATION	2.349			CON		
OCEANA	US-31 BR (6th Street)		50' EAST OF WYTHE STREET	RESTORATION AND REHABILITATION	0.000	CON				
OCEANA	US-31 NB		AT THE ROTHBURY REST AREA #529	ROADSIDE FACILITIES - IMPROVE	0.647				CON	
OTTAWA	I-196 EB		AT THE ZEELAND REST AREA #528	ROADSIDE FACILITIES - IMPROVE	0.000		CON			
OTTAWA	M-104 (Cleveland Rd)		124TH TO I-96	MAJOR WIDENING	1.374			CON		
OTTAWA	M-121 (Chicago Drive)	FES	40TH AVE EAST TO RUSH CREEK	RESURFACE	2.012	CON				
OTTAWA	M-121 (Chicago Drive)		80TH AVENUE TO 40TH AVENUE	RESURFACE	5.916	CON				
OTTAWA	M-121 (Chicago Drive)		M-121 EB OVER MACATAWA RIVER	OVERLAY - DEEP	5.916	CON				
OTTAWA	M-121 (Chicago Drive)		MAIN ST (ZEELAND) EAST TO 80TH AVE	RESTORATION AND REHABILITATION	1.169	CON				
OTTAWA	US-31 (US-31)		LAKEWOOD BLVD TO QUINCY ST	RECONSTRUCTION	2.787				CON	
OTTAWA	US-31 (Beacon Boulevard)		SLAYTON STREET TO SOUTH CHANNEL BRIDGE	RECONSTRUCTION	0.816					CON
					87.636					

2010-2014 ROAD & BRIDGE PROGRAM

Capacity Improvement

GRAND I-196 at Baldwin Road Intersection

COUNTY	ROUTE (COMMON NAME)	DIR.	LOCATION	TYPE OF WORK	LENGTH	2010	2011	2012	2013	2014
KENT	I-196 (Gerald R Ford Freeway)		AT CHICAGO DRIVE INTERCHANGE	INTERCHANGE REDESIGN & UPGRADING	2.066	CON				
KENT	I-196		EB AND WB OVER CSX RAILROAD	INTERCHANGE REDESIGN & UPGRADING	0.000	CON				

GRAND US-131 at 44th Street, City of Wyoming

COUNTY	ROUTE (COMMON NAME)	DIR.	LOCATION	TYPE OF WORK	LENGTH	2010	2011	2012	2013	2014
KENT	US-131		UNDER 44TH STREET	REPLACE BRIDGE, ADD LANES	0.000	CON				

GRAND US-31, Holland to Grand Haven

COUNTY	ROUTE (COMMON NAME)	DIR.	LOCATION	TYPE OF WORK	LENGTH	2010	2011	2012	2013	2014
OTTAWA	US-31		LAKEWOOD BLVD NORTH TO QUINCY ST	RECONSTRUCT AND ADD LANE(S) OVER 0.5 M	2.787				CON	CON
OTTAWA	US-31		LAKEWOOD BLVD NORTH TO QUINCY ST	RECONSTRUCT AND ADD LANE(S) OVER 0.5 M		PE	PE	PE	PE	
OTTAWA	US-31 (Beacon Boulevard)		FRANKLIN STREET NORTH TO JACKSON STREET	RECONSTRUCT AND ADD LANE(S) OVER 0.5 M	0.600					CON
					5.453					

2010-2014 ROAD & BRIDGE PROGRAM

New Roads

GRAND US-31, Holland to Grand Haven

COUNTY	ROUTE (COMMON NAME)	DIR.	LOCATION	TYPE OF WORK	LENGTH	2010	2011	2012	2013	2014
OTTAWA	REGIONWIDE (US-31 Bypass)		M-45 NORTH TO I-96/M-104	NEW ROUTES		EPE	EPE	EPE	EPE	
OTTAWA	REGIONWIDE (US-31 Bypass)		M-45 NORTH TO I-96/M-104	NEW ROUTES		PE	PE	PE	PE	PE
OTTAWA	M-231 (US-31 Bypass)		M-45 NORTH TO I-96/M-104	NEW ROUTES		ROW	ROW	ROW	ROW	ROW
OTTAWA	M-231		FROM M-45 TO THE GRAND RIVER	NEW ROUTES	4.500				CON	CON
OTTAWA	M-231		FROM M-45 TO THE GRAND RIVER	NEW ROUTES		PE	PE	PE	PE	
OTTAWA	M-231		M-231(NEW ROUTE) OVER THE GRAND RIVER	NEW STRUCTURE ON NEW ROUTE	0.001	CON	CON	CON	CON	CON
OTTAWA	M-231		M-231(NEW ROUTE) OVER THE GRAND RIVER	NEW STRUCTURE ON NEW ROUTE	0.001		CON	CON		
OTTAWA	M-231		FROM THE GRAND RIVER TO I-96	NEW ROUTES	2.501			CON	CON	CON
OTTAWA	M-231		FROM THE GRAND RIVER TO I-96	NEW ROUTES		PE	PE	PE		
OTTAWA	I-96		OVER ABANDONED GTW RAILROAD	BRIDGE REMOVAL	1.393			CON	CON	
OTTAWA	I-96		OVER ABANDONED GTW RAILROAD	BRIDGE REMOVAL		PE	PE	PE		
OTTAWA	M-231		OVER LEONARD STREET	NEW STRUCTURE ON NEW ROUTE	0.018			CON	CON	CON
OTTAWA	I-96		OVER M-231 RAMP	NEW STRC-EXTG RTE	0.000			CON	CON	CON
OTTAWA	I-96		UNDER 112TH AVE	REPLACE BRIDGE, ADD LANES	0.000			CON	CON	CON
					8.414					