



## Technical Memorandum #3

### *List of Potential Rail Projects*

June 2011

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Prepared for:



Prepared by:



Michigan State Rail Plan

# Master List of Potential Rail Projects

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Investment Need		Michigan Rail Plan Goals & Objectives Applicability	Financial Resources in Millions of 2010 Dollars**					Potential/Committed Funding Programs	Notes/Comments	
					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit		Capital Cost	Railroad	Federal	State	Other			Unfunded
1	Passenger: HSR	2011-2015	Track	G	NS	NS Amtrak	Amtrak	<b>Dearborn to Kalamazoo Service Development Program:</b> Complete ownership arrangement for MDOT acquisition of the rail corridor; Complete final design and construction for track, structures, highway/rail crossing warning devices. (Note: PTC portion of this project (\$97.45M) included in Item #27)	Ensures long-term stabilization of rail corridor; capital improvements to bring corridor to state-of-good repair for 79 mph operations reduces travel time by 12 minutes (reduces travel time up to 18 minutes for 110 mph operations); supports HSIPR development; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment	1, 2, 4, 5, 6	\$287.90	\$18.75	\$150.00	\$18.75	\$0.00	\$100.40		
2	Passenger: HSR	2013-2030	Track	U	TBD	TBD	Amtrak	<b>Chicago to Detroit/Pontiac Corridor: Chicago, IL to Porter, IN/South-of-the-Lake Corridor -</b> Corridor infrastructure improvements for enhancements to Michigan intercity rail service (MWRRI)	Supports high-speed intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 2, 3, 4, 5, 6	\$602.45	\$0.00	\$0.00	\$0.00	\$0.00	\$602.45		
3	Passenger: HSR	2011-2015	Track	G	CN	CN Amtrak	Amtrak	<b>Chicago to Detroit/Pontiac Corridor: Chicago/Grand Crossing Improvements (MWRRI)</b>	Supports high-speed intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 2, 3, 4, 5, 6	\$16.44	\$0.00	\$0.00	\$0.00	\$0.00	\$16.44		
4	Passenger: HSR	2011-2015	Track	B	Amtrak	Amtrak NS	Amtrak	<b>Chicago to Detroit/Pontiac Corridor: Porter, IN to Kalamazoo, MI -</b> Upgrades to Amtrak owned segment (MWRRI)	Supports high-speed intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 2, 3, 4, 5, 6	\$164.03	\$0.00	\$0.00	\$0.00	\$0.00	\$164.03		
5	Passenger: HSR	2011-2015	Track	G	CN	CN Amtrak	Amtrak	<b>Chicago to Detroit/Pontiac Corridor: Battle Creek to Gord Improvements -</b> Upgrades to CN owned portion of corridor. (MWRRI)	Supports high-speed intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 2, 3, 4, 5, 6	\$20.54	\$0.00	\$0.00	\$0.00	\$0.00	\$20.54		
6	Passenger: HSR	2012-2015	Track	G	CN	CN/ Amtrak	Amtrak	<b>Chicago to Detroit/Pontiac Corridor: Detroit to Pontiac -</b> Detroit/Milwaukee Junction (MP 1.16) to Pontiac (MP 22.4). Track rehabilitation and construction (21.24 miles). Retain the CN #2 main and utilize it for intercity passenger rail service and limited freight volumes. Rehabilitate and maintain in state-of-good repair (rail, ties, ballast). Retain the CN #2 main. Max speed 79 mph.	Supports high-speed intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 2, 3, 4, 5, 6	\$15.56	\$0.00	\$0.00	\$0.00	\$0.00	\$15.56		
7	Passenger: HSR	2012-2013	Study	G	NS	N/A	Amtrak	<b>Ann Arbor Passenger Rail Station - New Station:</b> NEPA/Preliminary Engineering (Ownership: City of Ann Arbor)	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 4, 5, 6	\$3.50	\$0.00	\$0.00	\$0.00	\$0.70	\$2.80		
8	Passenger: HSR	2014-2017	Station	G	NS	N/A	Amtrak	<b>Ann Arbor Passenger Rail Station - New Station:</b> Final Design/Construction (upon completion of PE/NEPA) (Ownership: City of Ann Arbor)	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 4, 5, 6	\$40.00	\$0.00	\$0.00	\$0.00	\$9.20	\$30.80		
9	Passenger: HSR	2016-2020	Track	B	CN	CN Amtrak	Amtrak	<b>Battle Creek to Port Huron:</b> Corridor infrastructure improvements for enhancements to Blue Water route. (MWRRI)	Provides transportation option; supports intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment	1, 2, 4, 5, 6	\$91.78	\$0.00	\$0.00	\$0.00	\$0.00	\$91.78		
10	Passenger: HSR	2016-2020	Track	B	CSX	CSX	Amtrak	<b>Kalamazoo to Grand Rapids:</b> Corridor infrastructure improvements to relocate Pere Marquette (MWRRI)	Provides transportation option; supports high-speed intercity passenger rail; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment	1, 2, 4, 5, 6	\$37.21	\$0.00	\$0.00	\$0.00	\$0.00	\$37.21		
11	Passenger: HSR	2012	Study	BL	TBD	TBD	Intercity Passenger Rail	<b>Grand Rapids to Chicago High Speed Intercity Passenger Rail Corridor:</b> Tier 1 EIS. (MWRRI)	Supports planning for HSIPR services	1, 3, 4, 5, 6	\$1.00	\$0.00	\$0.80	\$0.20	\$0.00	\$0.00		
12	Passenger: HSR	2012	Study	BL	TBD	TBD	Intercity Passenger Rail	<b>Port Huron to Battle Creek High Speed Intercity Passenger Rail Corridor:</b> Tier 1 EIS. (MWRRI)	Supports planning for HSIPR services	1, 3, 4, 5, 6	\$1.00	\$0.00	\$0.80	\$0.20	\$0.00	\$0.00		
13A	Passenger: HSR	2012-2015	Equip	G	N/A	N/A	Amtrak	<b>Replacement Passenger Train Sets (Cars and Locomotives)</b> Midwest next generation trainsets to replace pooled equipment for all 3 Michigan corridors. Michigan share of pooled procurement	Enhances traveling experience; increase operational reliability	1, 4, 5	\$366.70	\$0.00	\$0.00	\$0.00	\$0.00	\$366.70	Included in 2011 Application for FRA HSIPR FL reallocation	
13B	Passenger: HSR	2017-2030	Equip	U	N/A	N/A	Amtrak	<b>New Passenger Train Sets (Cars and Locomotives) -</b> Additional 7 trainsets for expanded HSR service	New equipment allows for expansion of high speed rail service in Michigan	1, 4, 5	\$375.00	\$0.00	\$0.00	\$0.00	\$0.00	\$375.00		
14	Passenger: HSR	2016-2030	Station	G	CN	CN	Amtrak	<b>Detroit New Center Multi-Modal Transportation Center - New Station:</b> Construction (Ownership: MDOT/City of Detroit)	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 3, 4, 5, 6	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.00		
15	Passenger: HSR	2011-2030	Track	BL	Amtrak	NS	Amtrak	<b>Amtrak-owned Corridor between Michigan Line and Kalamazoo:</b> Amtrak maintenance of state-of-good repair. (\$3M/annually)	Operational reliability; state-of-good repair; supports HSIPR operations	1, 2, 6	\$60.00	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00		
16	Passenger: HSR	2012-2015	Station	BL	NS	NS Amtrak	Amtrak	<b>Jackson Station:</b> Rehabilitation	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 4, 5, 6	\$1.00	\$0.00	\$1.00	\$0.00	\$0.00	\$0.00		
17A	Passenger: HSR	2012-2013	Station	BL	CN	CN/ Amtrak	Amtrak	<b>Durand Station:</b> Parking Area Redevelopment Phase 1	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 4, 5, 6	\$0.30	\$0.00	\$0.00	\$0.30	\$0.00	\$0.00		
17B	Passenger: HSR	2012-2013	Station	G	CN	CN/ Amtrak	Amtrak	<b>Durand Station:</b> Parking Area Redevelopment Phase 2	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 4, 5, 6	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40		

Michigan State Rail Plan  
Master List of Projects

Draft: April 22, 2011

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Investment Need		Michigan Rail Plan Goals & Objectives Applicability	Financial Resources in Millions of 2010 Dollars**					Potential/Committed Funding Programs	Notes/Comments	
					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit		Capital Cost	Railroad	Federal	State	Other			Unfunded
18	Passenger: HSR	2011-2012	Track	BL	Metra	Metra	Metra	Chicago-Detroit/Pontiac Corridor; Englewood Flyover: Construct rail-to-rail grade separation at Englewood (Chicago, Illinois) including approach bridges, embankment, retaining walls, and 3 new tracks. Metra will operate on the grade separation (over NS tracks). Amtrak will continue to operate on NS tracks.	Increase safety; increase capacity; supports HSIPR; short-term job creation	1, 2, 3, 4, 5, 6	\$140.00	\$7.00	\$133.00	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA HSIPR Funding	
19	Passenger: HSR	2011-2012	Track	BL	NS	NS Amtrak	Amtrak	Chicago-Detroit/Pontiac Corridor. NS Indiana Gateway Project (Indiana/Illinois State Line to Porter, IN) - Independent Infrastructure Improvements at 8 locations to provide improved operational flexibility	Increase safety; increase capacity; supports HSIPR; short-term job creation	1, 2, 3, 5, 6	\$71.36	\$0.00	\$71.36	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA HSIPR Funding	
20	Passenger: HSR	2011-2012	Track	G	NS	NS Amtrak	Amtrak	Chicago-Detroit/Pontiac Corridor. Deferred Maintenance: Spot tie and ballast replacement and other improvements to restore 79 mph operations	Increase safety; increase reliability; supports HSIPR; short-term job creation	1, 2, 3, 5, 6	\$5.17	\$0.00	\$0.00	\$0.00	\$0.00	\$5.17	Included in 2011 Application for FRA HSIPR FL reallocation	
21	Passenger: HSR	2011-2012	Track	BL	CN/GT CSAO	CSX CP NS	Amtrak	Chicago-Detroit/Pontiac: West Detroit Track Connection - Construct new CTC signals from Milwaukee Junction to West Detroit Junction (4.6 miles) and a connection between CSAO and CN. Includes CTC signal installation, 1.34 miles of new connection track, replacement of bridge over Junction Avenue, relocating 0.86 miles of existing CSAO tracks, 5 new crossovers and a service drive.	Improves passenger rail travel times by up to 10 minutes between Dearborn Station and Detroit New Center station; eliminates conflicts with 6 railroads that currently use the line (CSAO, CN, CSX, CP, NS and Amtrak); supports HSIPR development; reduces pollution/energy reduction; promotes short- and long-term employment	1, 2, 3, 4, 5, 6	\$18.33	\$0.00	\$7.90	\$10.43	\$0.00	\$0.00	Federal FY 2009 HSIPR Grant (Residual Funds)	Funds: Railroad force account labor for grading, track placement and signals, construction activities and final testing.
22	Passenger: HSR	2011-2012	PTC	BL	Amtrak	NS	Amtrak	Amtrak-Owned Corridor - Kalamazoo and between New Buffalo, MI and Porter, IN: Extension of ITCs between MP 150 to MP 143 (Kalamazoo) and from MP 215 to MP 240 (New Buffalo, MI to Porter, IN)	Increase safety; support HSIPR operations.	1, 2, 6	\$25.00	\$0.00	\$25.00	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA TIGER Funding through Amtrak	
23	Passenger: HSR	2011-2013	Stations	BL	NS	N/A	Amtrak	Dearborn Intermodal Rail Passenger Facility - New Station: Final Design/Construction (Ownership: City of Dearborn)	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 3, 4, 5, 6	\$29.45	\$0.00	\$28.20	\$0.25	\$1.00	\$0.00	Federal FY 2009 ARRA HSIPR Funding & FTA Funding	Federal Funding; FY 2009 ARRA HSIPR Funding Other Funding: FTA
24	Passenger: HSR	2011-2013	Stations	BL	NS	N/A	Amtrak	Battle Creek Train Station Renovation: Final Design/ Construction (Ownership: City of Battle Creek)	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 4, 5, 6	\$3.62	\$0.00	\$3.62	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA HSIPR Funding	Federal Funding; FY 2009 ARRA HSIPR Funding
25	Passenger: HSR	2011-2013	Stations	BL	CN	N/A	Amtrak	Troy/Birmingham Intermodal Transit Facility - New Station: Final Design/Construction (Ownership: City of Troy)	Increases safety; promotes economic development/livable communities; short- and long-term job creation; supports HSIPR operations	1, 2, 3, 4, 5, 6	\$10.84	\$0.00	\$8.49	\$0.35	\$2.00	\$0.00	Federal FY 2009 ARRA HSIPR Funding & Cities of Troy and Birmingham Funding	Federal Funding; FY 2009 ARRA HSIPR Funding Other Funding: Cities of Troy and Birmingham
26	Passenger: HSR	2011-2013	Study	BL	NS Amtrak CN CSAO	N/A	Amtrak	Chicago-Detroit/Pontiac Investment Plan (Service Level NEPA/Preliminary Engineering)	Supports planning for HSIPR services	1, 2, 3, 4, 5, 6	\$4.00	\$0.00	\$3.20	\$0.20	\$0.60	\$0.00	Federal FY 2010 HSIPR Planning Funding	State Funding: Michigan (\$200,000); Illinois (\$200,000); Indiana (\$200,000) / Railroad Funding: NS (\$200,000)
27	Passenger: Intercity	2011-2015	PTC	G	CSX	Amtrak	Amtrak	Positive Train Control: All lines on which passenger trains operate. 442 miles	Increase safety; support HSIPR operations.	1, 2, 6	\$337.77	\$9.61	\$76.88	\$9.61	\$0.00	\$241.67		
28A	Passenger: Intercity	2011-2015	Track	G	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Intercity Passenger Rail infrastructure Improvements: Demonstration regional service on 38-mile rail corridor (4 round trips daily). Includes corridor infrastructure improvements and 2 new stations.	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment	1, 2, 3, 4, 5, 6	\$41.40	\$0.00	\$0.00	\$8.20	\$0.00	\$33.20		SEMCOG/MDOT Initiative
28B	Passenger: Intercity	2011-2013	Equip	BL	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Regional Rail. Car Refurbishment: Refurbishing 3 cab cars and 6 coaches	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$2.70	\$0.00	\$0.80	\$1.90	\$0.00	\$0.00		
28C	Passenger: Intercity	2012-2018	Equip	BL	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Intercity Passenger Rail. Equipment Leasing: Demonstration regional service. Leasing 3 cab cars and 6 coaches	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$1.90	\$0.00	\$0.00	\$1.90	\$0.00	\$0.00		
28D	Passenger: Intercity	2014-2018	Equip	BL	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Regional Rail. Locomotive Leasing. Leasing 3 locomotives.	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$1.50	\$0.00	\$1.20	\$0.30	\$0.00	\$0.00		
28E	Passenger: Intercity	2014-2018	Oper	G	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Regional Rail. Operating & Maintenance.	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$52.00	\$0.00	\$14.30	\$15.30	\$10.00	\$12.40		
29A	Passenger: Intercity	2011-2014	Track	G	GLC	GLC	Intercity Passenger Rail	Howell to Ann Arbor Regional Rail (WALLY): Infrastructure improvements on the 26-mile corridor.	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 2, 3, 4, 5, 6	\$31.70	\$0.00	\$0.00	\$5.30	\$0.00	\$26.40		2009 TIGER Grant submitted - Application was not successful 2010-\$5.3M in state funds expended for track infrastructure improvements
29B	Passenger: Intercity	2011-2013	Equip	BL	GLC	GLC	Intercity Passenger Rail	Howell to Ann Arbor Intercity Passenger Rail (WALLY): Car Refurbishment. Refurbishing 5 cab cars and 10 coaches	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$4.50	\$0.00	\$1.30	\$3.20	\$0.00	\$0.00		
29C	Passenger: Intercity	2012-2018	Equip	BL	GLC	GLC	Intercity Passenger Rail	Howell to Ann Arbor Regional Rail (WALLY): Car leasing. Leasing 5 cab cars and 10 coaches	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$3.20	\$0.00	\$0.00	\$3.20	\$0.00	\$0.00		
29D	Passenger: Intercity	2014-2018	Equip	BL	NS	NS	Intercity Passenger Rail	Howell to Ann Arbor Regional Rail. Locomotive Leasing. Leasing 5 locomotives.	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 5, 6	\$2.50	\$0.00	\$2.00	\$0.50	\$0.00	\$0.00		
29E	Passenger: Intercity	2014-2018	Oper	G	NS	NS	Intercity Passenger Rail	Howell to Ann Arbor Regional Rail. Operating & Maintenance.	Provides transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates long-term employment	1, 3, 4, 6	\$45.00	\$0.00	\$0.00	\$4.00	\$11.50	\$29.50		
30A	Passenger: Intercity	2015	Study	G	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail Corridor Study: Alternatives analysis for initiating intercity passenger rail service	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$2.45	\$0.00	\$1.96	\$0.49	\$0.00	\$0.00		
30B	Passenger: Intercity	2016-2017	Study	B	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail NEPA/Preliminary Engineering: Corridor infrastructure (track, signal and highway/rail crossings) improvements to initiate intercity passenger rail service	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$24.50	\$0.00	\$0.00	\$0.00	\$0.00	\$24.50		

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					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit		Capital Cost	Railroad	Federal	State	Other			Unfunded
30C	Passenger: Intercity	2018-2030	Track	U	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail Final Design/Construction: Corridor infrastructure (track, signal and highway/rail crossings) improvements to initiate intercity passenger rail service - approximately 255 miles	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$245.00	\$0.00	\$0.00	\$0.00	\$0.00	\$245.00		
30D	Passenger: Intercity	2018-2030	Equip	U	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail: Locomotives and passenger rail cars/train sets to initiate intercity passenger rail service (3 trainsets)	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$84.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84.00		
31A	Passenger: Intercity	2014-2015	Study	G	TBD	TBD	Intercity Passenger Rail	Detroit to Toledo, OH Intercity Passenger Rail Corridor Study: Alternatives analysis for initiating intercity passenger rail service	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$1.00	\$0.00	\$0.80	\$0.20	\$0.00	\$0.00		
32A	Passenger: Intercity	2016-2018	Study	B	TBD	TBD	Intercity Passenger Rail	Detroit to Toledo, OH Intercity Passenger Rail Corridor PE/NEPA: Alternatives analysis for initiating intercity passenger rail service	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.00		
32C	Passenger: Intercity	2018-2025	Track	B	TBD	TBD	Intercity Passenger Rail	Detroit to Toledo, OH Intercity Passenger Rail Corridor FD/Construction.	Provides daily transportation option for public; reduces pollution/energy reduction; promotes livable communities; creates short- and long-term employment.	1, 3, 4, 5, 6	\$60.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60.00		
33	Passenger: Intercity	2011 - 2030	Oper	BL	Various	Various	Various	Annual State Operating Subsidy for Blue Water and Pere Marquette. \$8 million/year	Continued operation of state-funded trains	1, 2, 4	\$160.00	\$0.00	\$0.00	\$160.00	\$0.00	\$0.00		
34	Passenger: Intercity	2014-2030	Oper	G	Various	Various	Various	Annual State Operating Subsidy for Wolverine Service. \$25 million/year starting in 2014.	Provides subsidy for Wolverine trains as required by PRIIA Section 209	1, 2, 4	\$425.00	\$0.00	\$0.00	\$0.00	\$0.00	\$425.00		
35	Passenger: Intercity	2011-2012	Stations	BL	Amtrak CN CSX NS	N/A	Amtrak	Mobility First: ADA accessibility station improvements at New Buffalo, Durand, St. Joseph, Albion, Dowagiac and Royal Oak	ADA compliance; safety; amenities; supports HSIPR operations	1, 3, 4, 5, 6	\$0.80	\$0.00	\$0.80	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA TIGER Funding (Through Amtrak)	
36	Passenger: Intercity	2011-2012	Stations	BL	NS	N/A	Amtrak	Battle Creek, MI: New Amtrak Crew Base Facility	Employee quality of life	1, 6	\$0.17	\$0.00	\$0.17	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA TIGER Funding (Through Amtrak)	
37	Passenger: Intercity	2011-2012	Track	BL	Amtrak	NS	Amtrak	Amtrak Corridor - Kalamazoo, MI to Porter, IN: 2011 Culvert Upgrades	Operational reliability; state-of-good repair; supports HSIPR operations	1, 2, 6	\$0.25	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	Amtrak 2011 Capital Budget	
38	Passenger: Intercity	2011-2012	Xing	BL	Amtrak	NS	Amtrak	Amtrak Corridor - Kalamazoo, MI to Porter, IN: Highway/Rail Crossing Equipment Upgrades	Operational reliability; state-of-good repair; supports HSIPR operations	1, 2, 6	\$0.25	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	Amtrak 2011 Capital Budget	
39	Passenger: Intercity	2011-2012	Xing	BL	Amtrak	NS	Amtrak	Amtrak Corridor - Kalamazoo, MI to Porter, IN: 2011 Highway/Rail Crossing Panel Replacements	Operational reliability; state-of-good repair; supports HSIPR operations	1, 2, 6	\$0.35	\$0.35	\$0.00	\$0.00	\$0.00	\$0.00	Amtrak 2011 Capital Budget	
40	Passenger: Intercity	2011-2012	Xing	BL	Amtrak	NS	Amtrak	Amtrak Corridor - Kalamazoo, MI to Porter, IN: 2011 Install LED Signals/Signal System Upgrade	Increase service reliability by reducing train delays; short-term job creation	1, 2, 6	\$0.25	\$0.25	\$0.00	\$0.00	\$0.00	\$0.00	Amtrak 2011 Capital Budget	
41	Passenger: Intercity	2011-2012	PTC	BL	Amtrak	NS	Amtrak	Amtrak-Owned Corridor - Kalamazoo, MI to Porter, IN: New Fiber optic cable for communications and signals usage, including termination equipment, between Kalamazoo, MI (MP 143) and Porter, IN (MP 240)	Increase safety, operational reliability; supports HSIPR operations	1, 2, 6	\$6.89	\$0.00	\$6.89	\$0.00	\$0.00	\$0.00	Federal FY 2009 ARRA TIGER Funding through Amtrak	
42	Passenger: Intercity	2011-2012	Track	BL	Amtrak	NS	Amtrak	Amtrak Corridor - Kalamazoo, MI to Porter, IN: 2011 Track surfacing and turnout replacement	Operational reliability; state-of-good repair; supports HSIPR operations	1, 2, 6	\$5.67	\$5.67	\$0.00	\$0.00	\$0.00	\$0.00	Amtrak 2011 Capital Budget	
43	Passenger: Intercity	2011	Stations	BL	CSX	N/A	Amtrak	Grand Rapids: Trackwork to support relocation of Amtrak service from existing station to the downtown multi-modal transit/intercity bus facility	Revenue and ridership increase; promotes economic development; livable communities; sort-term job creation; supports HSIPR operations	1, 3, 4	\$4.26	\$0.00	\$3.80	\$0.00	\$0.46	\$0.00	Other Funding: Local Match (right-of-way contribution)	
44	Freight	2011-2020	Track	G	CP	CP	N/A	Detroit River Tunnel: Construct new rail tunnel between Detroit and Windsor. New tunnel will accommodate double stack trains and provide competitive, cost effective service. Source of other funds - Canada.	Provides additional rail capacity, particularly for double-stack containers; reduces pollution/energy reduction; promotes economic development; creates short- and long-term employment	2, 3, 4, 5, 6	\$390.00	\$0.00	\$0.00	\$0.00	\$190.00	\$200.00		Continental Rail Gateway Coalition, a public-private partnership (CP, Borealis Infrastructure and Windsor Port Authority), was created in June 2010. (Existing tunnel is owned by Borealis Infrastructure (83.5%) and CP (16.5%)). (Other Funding: \$190M-Canadian Funding) - Existing tunnel carries 350,000 cars and
45	Freight	2011-2015	PTC	G	Various	NS Amtrak	N/A	Positive Train Control (Federally-Mandated by 2015 for all corridors on which passenger trains and hazardous materials are operated.)	Increase safety; support HSIPR operations.	1, 2, 6	\$750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750.00		CP operations are via trackage rights over NS in Michigan.
46	Freight	2011-2030	Track	BL	Statewide	Various	N/A	Michigan Rail Loan Assistance Program (MIRLAP) (no additional funding)	Rail infrastructure projects with public benefits	2, 3, 4, 5	\$22.00	\$0.00	\$0.00		\$22.00	\$0.00		TF2-Freight Needs: Current Freight System Preservation and Expansion (\$4.3M annually)
47A	Freight	2011-2030	Track	G	Statewide	Various	N/A	Rail Infrastructure Improvement Program (\$40M total)	Rail infrastructure projects with public benefits	2, 3, 4, 5	\$18.00	\$0.00	\$0.00			\$18.00		TF2-Freight Needs: Current Freight System Preservation and Expansion (\$4.3M annually)
47B	Freight: Regional/Shortline/Switching	2021-2030	Track	G	Statewide	Various	N/A	Rail Infrastructure Improvement Projects: TBD projects that exceed projected MOW investments and MDOT funding programs' scope	Freight rail infrastructure improvement projects (capacity, efficiency, safety, etc.)	2, 3, 4, 5	\$175.00	\$0.00	\$0.00			\$175.00		TF2-Freight Needs: Current Freight System Preservation and Expansion (\$4.3M annually)
48A	Freight	2011-2030	Track	BL	Statewide	Various	N/A	Freight Economic Development Program (continued at FY 2011 investment level)	Projects that provide new or expanding businesses access to the rail system	2, 3, 4, 5	\$20.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00		TF2-Freight Needs: Current Freight System Preservation and Expansion (\$4.3M annually)
48B	Freight	2011-2030	Track	G	Statewide	Various	N/A	Freight Economic Development Program (\$30M total)	Projects to expand businesses access to the rail system	2, 3, 4, 5	\$10.00	\$0.00	\$0.00			\$10.00		TF2-Freight Needs: Current Freight System Preservation and Expansion (\$4.3M annually)
49	Freight	2013-2015	Study	BL	Various	Various	N/A	West Michigan Intermodal Freight Terminal: Feasibility Study (Grand Rapids Region)	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of western Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$1.00	\$0.00	\$0.00		\$1.00	\$0.00		
50	Freight: DIFT	2011-2015	Track	B	CP	CP	N/A	Detroit Intermodal Freight Terminal: CP Terminal	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	1, 3, 4, 5	\$51.07	\$0.00	\$0.00	\$0.00	\$0.00	\$51.07		

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					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit		Capital Cost	Railroad	Federal	State	Other			Unfunded
51	Freight: DIFT	2016-2030*	Track	G	MDOT	Various	N/A	<b>Detroit Intermodal Freight Terminal - Exterior Roadway Improvements:</b> 1. Central Avenue (will be 100% State funding) 2. Dix/Central Intersection 3. Lonyo Avenue 4. North Perimeter Road 5. I-94/Livernois Avenue Interchange <i>Note: Railroads will not share in costs of these roadway improvements.</i>	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$90.56	\$0.00	\$0.00	\$0.00	\$0.00	\$90.56		
52	Freight: DIFT	2016-2030*	Track	B	CSX	CSX	N/A	<b>Detroit Intermodal Freight Terminal:</b> CSX Terminal	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$47.19	\$0.00	\$0.00	\$0.00	\$0.00	\$47.19		
53	Freight: DIFT	2016-2030*	Track	B	NS	NS	N/A	<b>Detroit Intermodal Freight Terminal:</b> NS Triple Crown Terminal	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$48.22	\$0.00	\$0.00	\$0.00	\$0.00	\$48.22		
54	Freight: DIFT	2016-2030*	Track	B	NS	NS	N/A	<b>Detroit Intermodal Freight Terminal:</b> NS Intermodal Terminal	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$52.13	\$0.00	\$0.00	\$0.00	\$0.00	\$52.13		
55	Freight: DIFT	2016-2030*	Track	B	CSAO	CSAO	N/A	<b>Detroit Intermodal Freight Terminal:</b> CSAO Terminal	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$11.39	\$0.00	\$0.00	\$0.00	\$0.00	\$11.39		
56	Freight: DIFT	2016-2030*	Track	G	CP CSX NS CSAO	Various	N/A	<b>Detroit Intermodal Freight Terminal:</b> Civil Works	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$29.34	\$0.00	\$0.00	\$0.00	\$0.00	\$29.34		
57	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Beaubien and Milwaukee Junction Interlockings. Includes additional crossover and bridge slot at Brush St.	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$21.59	\$0.00	\$0.00	\$0.00	\$0.00	\$21.59		
58	Freight: DIFT	2016-2030*	Track	G	CN		N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> CN Coolidge and YD Interlockings	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$3.57	\$0.00	\$0.00	\$0.00	\$0.00	\$3.57		
59	Freight: DIFT	2016-2030*	Track	G	Various		N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Delray Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$16.09	\$0.00	\$0.00	\$0.00	\$0.00	\$16.09		
60	Freight: DIFT	2016-2030*	Track	G	CP		N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> CP Mill Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$2.45	\$0.00	\$0.00	\$0.00	\$0.00	\$2.45		
61	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Oakwood Junction Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$4.60	\$0.00	\$0.00	\$0.00	\$0.00	\$4.60		
62	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Schaefer Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$4.47	\$0.00	\$0.00	\$0.00	\$0.00	\$4.47		
63	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Trenton Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$7.67	\$0.00	\$0.00	\$0.00	\$0.00	\$7.67		
64	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Vinewood Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$5.35	\$0.00	\$0.00	\$0.00	\$0.00	\$5.35		
65	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Waterman and Dix Interlockings	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$3.94	\$0.00	\$0.00	\$0.00	\$0.00	\$3.94		
66	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> West Detroit Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$10.03	\$0.00	\$0.00	\$0.00	\$0.00	\$10.03		

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					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit		Capital Cost	Railroad	Federal	State	Other			Unfunded
67	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> New Rotunda Interlocking	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$5.25	\$0.00	\$0.00	\$0.00	\$0.00	\$5.25		
68	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Delray to Dix Interlockings	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$2.60	\$0.00	\$0.00	\$0.00	\$0.00	\$2.60		
69	Freight: DIFT	2016-2030*	Track	G			N/A	<b>Detroit Intermodal Freight Terminal - External Railroad Improvements:</b> Oakwood Junction to Schaefer Interlockings	Improve freight transportation opportunities and efficiencies for business, industry, and military, as well as, support the economic competitiveness of southeastern Michigan; business development; short- and long-term job creation	2, 3, 4, 5	\$14.19	\$0.00	\$0.00	\$0.00	\$0.00	\$14.19		
70	Freight/Passenger	2011-2030	Track	BL	Various	Various	Various	<b>Railroad Maintenance of Way Investments</b>	Maintain existing network	1, 2, 3, 4, 5, 6	\$2,310.00	\$2,310.00			\$0.00	\$0.00		TF2-Freight Needs: Current Grade Crossing Expenditures (\$9.3M annually)
71	Freight/Passenger	2011-2030	Equip	BL	Various	Various	Various	<b>Railroad Rolling Stock Investments</b>	Maintain in-state rolling stock	1, 2, 3, 4, 5, 6	\$417.30	\$417.30			\$0.00	\$0.00		TF2-Freight Needs: Current Grade Crossing Expenditures (\$9.3M annually)
72A	Freight/Passenger	2011-2030	Xing	BL	Various	Various	Various	<b>Local Grade Crossing Program (continued at FY 2011 levels)</b>	Projects to enhance safety at crossings on local roads	1, 2, 6	\$118.00	\$0.00	\$76.00	\$42.00	\$0.00	\$0.00		TF2-Freight Needs: Current Grade Crossing Expenditures (\$9.3M annually)
72B	Freight/Passenger	2011-2030	Xing	G	Various	Various	Various	<b>Local Grade Crossing Program (\$158M total)</b>	Projects to enhance safety at crossings on local roads	1, 2, 6	\$40.00	\$0.00			\$0.00	\$40.00		TF2-Freight Needs: Current Grade Crossing Expenditures (\$9.3M annually)
73A	Freight/Passenger	2011-2030	Xing	BL	Various	Various	Various	<b>Trunkline Railroad Crossing Program (continued at FY 2011 levels)</b>	Projects to maintain crossing surfaces and make necessary enhancements at crossings on state trunklines	1, 2, 6	\$58.00	\$0.00	\$40.00	\$18.00	\$0.00	\$0.00		TF2-Freight Needs: Current Grade Crossing Expenditures (\$9.3M annually)
73B	Freight/Passenger	2011-2030	Xing	G	Various	Various	Various	<b>Trunkline Railroad Crossing Program (\$94M total)</b>	Projects to maintain crossing surfaces and make necessary enhancements at crossings on state trunklines	1, 2, 6	\$36.00	\$0.00			\$0.00	\$36.00		TF2-Freight Needs: Current Grade Crossing Expenditures (\$9.3M annually)
74A	State-Owned Rail Lines	2016-2030	Track	BL	Various	Various	Various	<b>Capital Development for State-Owned Rail (continued at FY 2011 levels)</b>	Projects that protect state's investment and maintain service to shippers on the lines	2, 6	\$32.20	\$0.00	\$0.00	\$32.20	\$0.00	\$0.00		
74B	State-Owned Rail Lines	2016-2030	Track	G	Various	Various	Various	<b>Capital Development for State-Owned Rail (\$39.7M total)</b>	Projects that protect state's investment and maintain service to shippers on the lines	2, 6	\$7.50	\$0.00	\$0.00		\$0.00	\$7.50		
75A	State-Owned Rail Lines	2011-2030	Track	BL	Various	Various	N/A	<b>State-Owned Rail Property Management (continued at FY 2011 levels)</b>	Covers property leases, trackage rights, as well as vegetation control and emergency repairs.	2, 6	\$20.00		\$0.00	\$20.00	\$0.00	\$0.00		
75B	State-Owned Rail Lines	2016-2030	Track	G	Various	Various	N/A	<b>State-Owned Rail Property Management</b>	Covers property leases, trackage rights, as well as vegetation control and emergency repairs	2, 6	\$7.50		\$0.00		\$0.00	\$7.50		
76	Freight: Regional/Shortline/Switching	2011-2015	Xing	G	GLC	GLC	N/A	<b>M-21 Crossing Signal</b>	Increase safety; enhance operational reliability	2, 6	\$0.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.30		
77	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	State-owned Lines	GLC	N/A	<b>Bannister to Owasco Track Rehabilitation:</b> Ties, ballast, surface and crossings program (15.0 miles)	Increase safety; enhance operational reliability	2, 3, 6	\$2.00	\$0.00	\$0.00	\$2.00	\$0.00	\$0.00		
78	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	State-owned Lines	GLC	N/A	<b>Shiawassee County Bridge Repair</b>	Minimize potential for catastrophic bridge failure (with corresponding economic and environmental impacts)	2, 3, 6	\$0.60	\$0.00	\$0.00	\$0.60	\$0.00	\$0.00		
79	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	State-owned Lines	GLC	N/A	<b>Howell to Durand Track Rehabilitation:</b> Ties, ballast, surface and crossings program (20.1 miles)	Increase safety, enhance operational reliability	2, 3, 6	\$3.10	\$0.00	\$0.00	\$3.10	\$0.00	\$0.00		State-owned rail line. Historically, capital improvements on the rail line are funded by the State.
80	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	GLC	GLC	N/A	<b>Shiawassee and Wexford Counties:</b> Bridge Repairs (2 structures)	Increase safety, enhance operational reliability	2, 3, 6	\$0.60	\$0.00	\$0.00	\$0.60	\$0.00	\$0.00		State-owned rail line. Historically, capital improvements on the rail line are funded by the State.
81	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	GLC	GLC	N/A	<b>Traverse City to Williamsburg Track Rehabilitation:</b> Ties, ballast, surface and crossings program (11.3 miles)	Increase safety, enhance operational reliability	2, 3, 6	\$1.13	\$0.00	\$0.00	\$1.13	\$0.00	\$0.00		State-owned rail line. Historically, capital improvements on the rail line are funded by the State.
82	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	GLC	GLC	N/A	<b>Traverse City Track Rehabilitation:</b> Ties, ballast, surface and crossings program	Increase safety, enhance operational reliability	2, 3, 6	\$1.20	\$0.00	\$0.00	\$1.20	\$0.00	\$0.00		State-owned rail line. Historically, capital improvements on the rail line are funded by the State.
83	Freight: Regional/Shortline/Switching	2016-2020	Track	BL	GLC	GLC	N/A	<b>Kalkaska to Petoskey Track Rehabilitation:</b> Ties, ballast, surface and crossings program (53.0 miles)	Increase safety, enhance operational reliability	2, 3, 6	\$5.30	\$0.00	\$0.00	\$5.30	\$0.00	\$0.00		State-owned rail line. Historically, capital improvements on the rail line are funded by the State.
84	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	GLC	GLC	N/A	<b>Alma to Rosebush Track Rehabilitation:</b> Ties, ballast, surface and crossings (24.7 miles)	Increase safety, enhance operational reliability	2, 3, 6	\$3.70	\$0.00	\$0.00	\$3.70	\$0.00	\$0.00		State-owned rail line. Historically, capital improvements on the rail line are funded by the State.
85	Freight: Regional/Shortline/Switching	2011-2015	Track	G	LSI	LSI	N/A	<b>Capital Maintenance Project:</b> Grade crossing repair including signal infrastructure improvements/ maintenance	Increase safety and enhance operational reliability	2, 3, 6	\$1.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.00		
86	Freight: Regional/Shortline/Switching	2016-2020	Track	G	GR	GR	N/A	<b>Capital Maintenance Project:</b> Remove 90-lb. rail from mainline and replacing 25.7 miles of track with a larger rail size	Improve efficiency, increase productivity; enhance operational reliability; business development	2, 3, 4	\$10.28	\$0.00	\$0.00	\$0.00	\$0.00	\$10.28		
87	Freight: Regional/Shortline/Switching	2011-2015	Track	G	HESR/CMRY	HESR/CMRY	N/A	<b>Capital Maintenance Project:</b> Replace 90 and 100-lb. rail from the main core hazardous material route and replace with larger rail sizes along 5 miles of track	Increase productivity; enhance operational reliability; business development	2, 3, 4, 6	\$2.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.00		
88	Freight: Regional/Shortline/Switching	2011-2015	Track	G	MMRR	MMRR	N/A	<b>Capital Maintenance Project:</b> Replace 85-lb. and 90-lb. rail from sidings and mainline and replace with larger rail on 1.4 miles of track	Increase safety; increased efficiency; increased productivity; business development	2, 3, 4	\$0.56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.56		

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					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit	Capital Cost		Railroad	Federal	State	Other	Unfunded		
89	Freight: Regional/Shortline/Switching	2011-2015	Track	G	LSI	LSI	N/A	<b>Capital Maintenance Project:</b> Tie and rail replacement	Enhance operational reliability; business development	2, 3, 4	\$1.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.00		
90	Freight: Regional/Shortline/Switching	2011-2015	Track	G	HESR/CMRY	HESR/CMRY	N/A	<b>Bay City:</b> Entire overhaul of the swing bridge at Bay City. Replace structure with new automated swing capabilities and complete rework of all mechanical components	Increase productivity; operational reliability	2, 3, 4	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50		
91	Freight: Regional/Shortline/Switching	2011-2015	Track	G	MMRR	MMRR	N/A	<b>Ferrysburg:</b> Overhaul swing bridge at Ferrysburg, focusing on safety walkways, mechanical components and electrical circuitry	Increase safety; increase efficiency; increase productivity; operational reliability	2, 3, 4	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50		
92	Freight: Regional/Shortline/Switching	2016-2020	Track	G	LSI	LSI	N/A	<b>Capital Maintenance Project:</b> Ore Dock improvements	Increase operational reliability; reduce maintenance costs	2, 3, 4, 6	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00		
93	Freight: Regional/Shortline/Switching	2011-2015	Track	G	LSI	LSI	N/A	<b>Capital Maintenance Project:</b> Various structure improvements/maintenance	Increase operational reliability; reduce maintenance costs	2, 4, 6	\$2.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.00		
94	Freight: Regional/Shortline/Switching	2016-2020	Equip	BL	LSI	LSI	N/A	<b>Ore Cars:</b> Replacement of 50-year old equipment	Enhance operational reliability; reduce maintenance costs	2, 4, 6	\$14.00	\$14.00	\$0.00	\$0.00	\$0.00	\$0.00		
95	Freight: Regional/Shortline/Switching	2011-2015	Track	G	WMI	WMI	N/A	<b>Capital Plan Project:</b> 5-Year planned projects to improve infrastructure, bridges, ties, and rails, as needed.	Improve infrastructure including bridges, ties, and track.	2, 4, 6	\$1.00	\$1.00	\$0.00	\$0.00	\$0.00	\$0.00		
96	Freight: Regional/Shortline/Switching	2016-2020	Track	BL	MSO	MSO	N/A	<b>Railroad's Capital Plan Projects:</b> Implemented as improvements are needed.	Improve infrastructure including ties and track.	2, 6	\$0.09	\$0.09	\$0.00	\$0.00	\$0.00	\$0.00		
97	Freight: Regional/Shortline/Switching	2011-2015	Track	BL	MQT	MQT	N/A	<b>Capital Maintenance Project:</b> Rehabilitation 15 bridges	Increase operational reliability	2, 4, 6	\$1.50	\$1.50	\$0.00	\$0.00	\$0.00	\$0.00		
98	Freight: Regional/Shortline/Switching	2011-2015	Xing	BL	MQT	MQT	N/A	<b>Capital Maintenance Project:</b> Grade Crossing Enhancements	Increase safety; support HSIPR operations.	1, 2, 4, 5, 6	\$0.50	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00		
99	Freight: Regional/Shortline/Switching	2016-2020	Equip	G	ELS	ELS	N/A	<b>Log Cars &amp; Locomotives:</b> Acquisition of additional log cars and new locomotives.	Increase operational reliability; business development	2, 4	\$2.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.00		
100	Freight: Regional/Shortline/Switching	2016-2020	Track	G	IN	IN	N/A	<b>Capital Maintenance Project:</b> Replace 80-lb. rails along 14 miles of track in Indiana.	Increased efficiency; enhance operational reliability; business development.	2, 4, 6	\$6.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.00		
101	Freight: Regional/Shortline/Switching	2011-2015	Track	G	ELS	ELS	N/A	<b>Capital Maintenance Project:</b> Ties and ballast replacement.	Enhance operational reliability	2, 6	\$1.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.00		
102	Freight: Regional/Shortline/Switching	2011-2015	Track	G	IORY	IORY	N/A	<b>Michigan State Line to Diann:</b> Track infrastructure improvements to upgrade rail line	Enhance operational reliability	2, 6	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50		
103	Freight: Regional/Shortline/Switching	2011	Track	BL	State-owned Lines	IN	N/A	<b>Branch County:</b> Replace 2 culverts	State of good repair; operational reliability	2, 3	\$0.06	\$0.00	\$0.00	\$0.06	\$0.00	\$0.00		
104	Freight: Regional/Shortline/Switching	2011-2015	Track	G	A&B, LI, DCON	A&B, LI, DCON	N/A	<b>Install security measures at interchange points in Lenawee, Wayne and Lapeer Counties</b>	Enhance safety; reduce risk of hazardous material incidents in Lenawee, Wayne and Lapeer Counties	2, 4, 6	\$1.25	\$0.00	\$0.00	\$0.00	\$0.00	\$1.25		
105	Freight: Regional/Shortline/Switching	2011-2015	Track	G	A&B	A&B	N/A	<b>Replace Adrian bridge</b>	Improve rail infrastructure and safety (carries hazmat)	2, 4, 6	\$4.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.00		
106	Freight: Regional/Shortline/Switching	2016-2020	Track	G	A&B	A&B	N/A	<b>Reconnect A&amp;B lines with Toledo switching terminal to eliminate crossings and re-route hazmat outside of Adrian</b>	Crossing elimination & re-routing of hazmat outside of Adrian	2, 4, 6	\$7.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00		
107	Freight: Regional/Shortline/Switching	2016-2020	Track	G	A&B	A&B	N/A	<b>Relocate A&amp;B/NS interchange point from Adrian to Toledo</b>	Improve safety and create freight efficiencies	2, 4, 6	\$7.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.00		
108	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Ann Arbor Railroad	Ann Arbor Railroad	N/A	<b>Upgrade and repair 11 railroad bridges; replace culverts; and rebuild 40 grade crossings</b>	Improve the safety of bridges and culverts will reduce the possibility of catastrophic failure; crossing surface rebuilds will enhance safety and rideability for motorists	2, 4, 6	\$3.73	\$0.00	\$0.00	\$0.00	\$0.00	\$3.73		
109	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Branch County RUA	IN	Passenger (excursion)	<b>Upgrade track and improve bridges</b>	Improve the safety and efficiency of this line, located near the US-12 and I-69 corridors, could make the area a prime target for future industry location and job creation; line also serves a tourist-oriented	2, 4, 6	\$3.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3.00		
110	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Grand Elk	GDLK	N/A	<b>Replace 20,000 ties between Kalamazoo and Grand Rapids</b>	Line was recently leased from a Class 1 operator and is in very poor condition; failure to undertake project immediately could result in the line being removed from service, shippers losing rail access, and	2, 4, 6	\$2.30	\$0.00	\$0.00	\$0.00	\$0.00	\$2.30		
111	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Grand Elk	GDLK	N/A	<b>Replace two bridges in Portage to accommodate 286,000 lb railcars</b>	Both bridges currently have weight and speed restrictions; replacements would allow for 286,000-pound cars and faster, more efficient, service	2, 4, 6	\$1.20	\$0.00	\$0.00	\$0.00	\$0.00	\$1.20		
112	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Huron & Eastern	H&E	N/A	<b>Zilwaukee track alterations to eliminate crossings</b>	Eliminate track and divert traffic (including hazmat) to safer, more remote track. Eliminates several road crossings; enhances overall quality of life; reduces on-going maintenance needs	2, 4, 6	\$3.20	\$0.00	\$0.00	\$0.00	\$0.00	\$3.20		
113	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Huron & Eastern	H&E	N/A	<b>Upgrade track from Saginaw Mershon to Paines for new hazmat traffic</b>	Improve safety and efficiency	2, 4, 6	\$12.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12.00		
114	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Huron & Eastern	H&E	N/A	<b>Upgrade track from Durrand to Owosso</b>	Improve safety and efficiency	2, 4, 6	\$5.80	\$0.00	\$0.00	\$0.00	\$0.00	\$5.80		
115	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Huron & Eastern	H&E	N/A	<b>Upgrade track from Buena Vista to Bad Axe to Crosswell</b>	Improve safety and efficiency	2, 4, 6	\$3.10	\$0.00	\$0.00	\$0.00	\$0.00	\$3.10		
116	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Indiana Northeastern	IN	N/A	<b>Track rehabilitation from Quincy to Coldwater</b>	Improve safety and efficiency	2, 4, 6	\$3.10	\$0.00	\$0.00	\$0.00	\$0.00	\$3.10		
117	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lake State Railway	LS, SBS	N/A	<b>Bridge consulting to determine capacity</b>	Measure and re-rate to determine capacity and meet federal regulations	2, 4, 6	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.20		
118	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lake State Railway	LS, SBS	N/A	<b>Signalize dark territory to enhance operational efficiency and safety</b>	Enhance safety and efficiency of railroad's operation	2, 4, 6	\$4.25	\$0.00	\$0.00	\$0.00	\$0.00	\$4.25		



**Michigan State Rail Plan  
Master List of Projects**

Draft: April 22, 2011

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Investment Need		Michigan Rail Plan Goals & Objectives Applicability	Financial Resources in Millions of 2010 Dollars**					Potential/Committed Funding Programs	Notes/Comments	
					Ownership	Operating Rights	Passenger/Commuter	Project Name/Description	Project Benefit		Capital Cost	Railroad	Federal	State	Other			Unfunded
119	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lake State Railway	LS	N/A	Construct Essexville wye track to access new power plant and minimize crossing moves and blockages	Significantly minimize crossing moves and blockages; improve liveability of community; enhance safety; facilitate service to planned new Consumers plant	2, 4, 6	\$0.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.97		
120	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lake State Railway	LS, SBS	N/A	Rebuild 65 grade crossing surfaces	Enhance safety and rideability for motorists	2, 4, 6	\$3.44	\$0.00	\$0.00	\$0.00	\$0.00	\$3.44		
121	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Lake Superior & Ishpeming	LSI	N/A	Enhancements to coal-handling facility to improve rail efficiency	Shift traffic from truck to rail will decrease roadway congestion and maintenance, improve air quality, and enhance motorist safety	2, 4, 5, 6	\$22.85	\$0.00	\$0.00	\$0.00	\$0.00	\$22.85		
122	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lake Superior & Ishpeming	LSI	N/A	Purchase two environmentally-improved locomotives	Increase energy efficiency and, in the process, the economic competitiveness of the railroad and associated mining operation	2, 4, 5, 6	\$4.68	\$0.00	\$0.00	\$0.00	\$0.00	\$4.68		
123	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lapeer Industrial	Lapeer Industrial	N/A	Replace condemned bridge to restore rail service and haul hazmat	Restore rail service to shipper, removing hazmat shipments from highways; provide rail access for potentially developable sites	2, 4, 6	\$0.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51		
124	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Marquette Rail	MQT	N/A	Re-route Manistee Branch to eliminate crossings and bridges	Re-route 2.5 miles, eliminating two crossings, two bridges and track through wetlands. Will allow commercial development along US 31 and Manistee Lake.	2, 4, 6	\$10.50	\$0.00	\$0.00	\$0.00	\$0.00	\$10.50		
125	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Michigan Southern	MSO	N/A	Upgrade 17 miles of track to 286,000-pound capacity from White Pigeon to south of Sturgis	Upgrading the line to handle heavier cars could attract major industry to the area; keeping freight on the rail line reduces roadway maintenance costs, congestion, and emissions	2, 4, 5, 6	\$13.80	\$0.00	\$0.00	\$0.00	\$0.00	\$13.80		
126	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Mid-Michigan Railroad	MMRR	N/A	Upgrade nine miles of track between Paines and Hemlock	Improve the safety and efficiency of the line, which carries significant quantities of hazardous materials	2, 4, 6	\$0.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.90		
127	Freight: Regional/Shortline/Switching	2011-2015	Out	G	Norfolk Southern	NS	N/A	Construct new rail infrastructure to serve the Ford Heritage Assembly plant in Dearborn	Increase efficiencies for rail transportation at the plant, making it more competitive in the automotive industry	2, 4, 6	\$4.38	\$0.00	\$0.00	\$0.00	\$0.00	\$4.38		
128	Freight: Regional/Shortline/Switching	2011-2015	Study	G	Various	Various	N/A	Northern Michigan intermodal freight terminal feasibility study	To determine freight needs in the northern lower peninsula and the U.P.	2, 3, 4	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50		
129	Freight: Regional/Shortline/Switching	2016-2020	Study	G	ELS	ELS	N/A	Study development of coal dock and adjoining railroad property in Escanaba	Increased efficiency	2, 3, 4	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50		
130	Freight: Regional/Shortline/Switching	2011-2030	Xing	G	Statewide	Various	Various	Crossing surface improvements on local roads	Rebuild crossing surfaces on local roads, enhancing safety and efficiency and reducing ongoing maintenance costs	2, 3, 4	\$100.00	\$40.00	\$0.00	\$0.00	\$0.00	\$60.00		
131	Freight: Regional/Shortline/Switching	2011-2030	Xing	G	Statewide	Various	Various	Crossing safety re-configurations	Re-configure crossing approaches to enhance crossing safety	2, 3, 4, 6	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00		
132	Freight: Regional/Shortline/Switching	2016-2020	Track	G	ELS	ELS	N/A	Log Cars & Locomotives: Acquisition of additional log cars and new locomotives	To accommodate new traffic	2, 4	\$0.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.80		
133	Freight: Regional/Shortline/Switching	2016-2020	Track	G	ELS	ELS	N/A	Capital maintenance project: Ties and ballast replacement	Improve safety and efficiency	2, 4, 6	\$13.50	\$0.00	\$0.00	\$0.00	\$0.00	\$13.50		
134	Freight: Regional/Shortline/Switching	2016-2020	Track	G	A&B	A&B	N/A	Construct railcar repair shop to benefit shipping efficiency	Increased shipping efficiency; creates 3 additional jobs	2, 4	\$0.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.93		
135	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Huron & Eastern	H&E	N/A	Rebuild & expand Bay City locomotive repair facility	Increased efficiency; additional jobs	2, 4	\$0.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.90		
136	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Huron & Eastern	H&E	N/A	Construct Buena Vista MOW facility	Increased efficiency of maintenance operations	2, 4	\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.20		
137	Passenger: HSR	2016-2020	Track	B	New	HSR/Amtrak	HSR/Amtrak	Chicago-Detroit-Toronto HSR: Feasibility Study for 220 mph service on new alignment	Increased efficiency of maintenance operations	1, 4, 5	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00		
<b>GRAND TOTAL</b>											<b>\$9,174.68</b>	<b>\$2,886.52</b>	<b>\$660.27</b>	<b>\$384.67</b>	<b>\$258.46</b>	<b>\$4,984.76</b>		

Key:  
 \* Detroit Intermodal Freight Terminal (DIFT): Construction Peak is assumed as 2014. Full build out of the preferred alternative is assumed as 2030.  
 \*\*Engineering News Record, National Construction Cost Index used for escalations of project costs to 2010 dollars

State Rail Plan Goals:
<b>Goal 1:</b> Promote the Efficient Movement of Passengers
<b>Goal 2:</b> Promote the Efficient Movement of Freight
<b>Goal 3:</b> Encourage Intermodal Connectivity
<b>Goal 4:</b> Enhance State and Local Economic Development
<b>Goal 5:</b> Promote Environmental Sustainability
<b>Goal 6:</b> Promote Safe and Secure Railroad Operations

Categories
<b>Track:</b> Tracks, ties, ballast and structures
<b>PTC:</b> Positive Train Control and other railroad signaling & communication
<b>Equip:</b> Rolling Stock including locomotives and cars
<b>Xing:</b> Grade Crossing Improvements - separation, protection and surfacing
<b>Stations:</b> Stations and facilities
<b>Studies:</b> Feasibility, Environmental, Preliminary Engineering
<b>Operating:</b> Subsidy of operating and maintenance expenses
<b>Out:</b> Projects in other states/countries that have direct impact on Michigan

Bundles
<b>BL - Baseline:</b> Assumes that current funding programs will be maintained at current levels
<b>G - Good:</b> Assumes a moderate growth of funding program
<b>B - Better:</b> Assumes substantial growth in services, projects and funding
<b>U - Best (Unconstrained):</b> Includes all projects

- 1) Fiscal Year (FY): Represents State of Michigan fiscal year (October to September)
- 2) DIFT: \$10M in Federal funds are available as part of the Transportation bill.
- 3) Positive Train Control (PTC) mandated investments are based on Title 49CFR, Part 236, Subpart H dated 03/07/2005.

Michigan State Rail Plan

“Good” Investment Package

Capital Costs in 2010 \$Millions

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Project Name/Description	2011 - 2015						2016 - 2020						2021 - 2025						2026 - 2030						Total Financial Resources															
					Ownership	Operating Rights	Passenger/Commuter		Total	Railroad	Federal	State	Other	Unfunded	Capital Cost	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded										
1	Passenger: HSR	2011-2015	Track	G	NS	NS Amtrak	Amtrak	Dearborn to Kalamazoo Service Development Program: Complete ownership arrangement for MDOT acquisition of the rail corridor; Complete final design and construction for track, structures, highway/rail crossing warning devices. (Note: PTC portion of this project (\$97.45M) included in Item #27)	\$287.90	\$18.75	\$150.00	\$18.75	\$0.00	\$100.40																						\$287.90	\$18.75	\$150.00	\$18.75	\$0.00	\$100.40							
3	Passenger: HSR	2011-2015	Track	G	CN	CN Amtrak	Amtrak	Chicago to Detroit/Pontiac Corridor: Chicago/Grand Crossing Improvements (MWRRI)	\$16.44	\$0.00	\$0.00	\$0.00	\$0.00	\$16.44																						\$16.44	\$0.00	\$0.00	\$0.00	\$0.00	\$16.44							
5	Passenger: HSR	2011-2015	Track	G	CN	CN Amtrak	Amtrak	Chicago to Detroit/Pontiac Corridor: Battle Creek to Gord Improvements - Upgrades to CN owned portion of corridor. (MWRRI)	\$20.54	\$0.00	\$0.00	\$0.00	\$0.00	\$20.54																							\$20.54	\$0.00	\$0.00	\$0.00	\$0.00	\$20.54						
6	Passenger: HSR	2012-2015	Track	G	CN	CN/ Amtrak	Amtrak	Chicago to Detroit/Pontiac Corridor: Detroit to Pontiac - Detroit/Milwaukee Junction (MP 1.16 to Pontiac (MP 22.4). Track rehabilitation and construction (21.24 miles). Retain the CN #2 main and utilize it for intercity passenger rail service and limited freight volumes. Rehabilitate and maintain in state-of-good repair (rail, ties, ballast). Retain the CN #2 main. Max speed 79 mph.	\$15.56	\$0.00	\$0.00	\$0.00	\$0.00	\$15.56																								\$15.56	\$0.00	\$0.00	\$0.00	\$0.00	\$15.56					
7	Passenger: HSR	2012-2013	Study	G	NS	N/A	Amtrak	Ann Arbor Passenger Rail Station - New Station: NEPA/Preliminary Engineering (Ownership: City of Ann Arbor)	\$3.50	\$0.00	\$0.00	\$0.00	\$0.70	\$2.80																							\$3.50	\$0.00	\$0.00	\$0.00	\$0.70	\$2.80						
8	Passenger: HSR	2014-2017	Station	G	NS	N/A	Amtrak	Ann Arbor Passenger Rail Station - New Station: Final Design/Construction (upon completion of PE/NEPA) (Ownership: City of Ann Arbor)	\$40.00	\$0.00	\$0.00	\$0.00	\$9.20	\$30.80																							\$40.00	\$0.00	\$0.00	\$0.00	\$9.20	\$30.80						
13A	Passenger: HSR	2012-2015	Equip	G	N/A	N/A	Amtrak	Replacement Passenger Train Sets (Cars and Locomotives) Midwest next generation trainsets to replace pooled equipment for all 3 Michigan corridors. Michigan share of pooled	\$366.70	\$0.00	\$0.00	\$0.00	\$0.00	\$366.70																								\$366.70	\$0.00	\$0.00	\$0.00	\$0.00	\$366.70					
14	Passenger: HSR	2016-2030	Station	G	CN	CN	Amtrak	Detroit New Center Multi-Modal Transportation Center - New Station: Construction (Ownership: MDDOT/City of Detroit)							\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$30.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.00									
17B	Passenger: HSR	2012-2013	Station	G	CN	CN/ Amtrak	Amtrak	Durand Station: Parking Area Redevelopment Phase 2	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40																							\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40						
20	Passenger: HSR	2011-2012	Track	G	NS	NS Amtrak	Amtrak	Chicago-Detroit/Pontiac Corridor. Deferred Maintenance: Spot tie and ballast replacement and other improvements to restore 79 mph operations	\$5.17	\$0.00	\$0.00	\$0.00	\$0.00	\$5.17																								\$5.17	\$0.00	\$0.00	\$0.00	\$0.00	\$5.17					
27	Passenger: Intercity	2011-2015	PTC	G	CSX	Amtrak	Amtrak	Positive Train Control: All lines on which passenger trains operate. 442 miles	\$337.77	\$9.61	\$76.88	\$9.61	\$0.00	\$241.67																									\$337.77	\$9.61	\$76.88	\$9.61	\$0.00	\$241.67				
28A	Passenger: Intercity	2011-2015	Track	G	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Intercity Passenger Rail infrastructure Improvements: Demonstration regional service on 38-mile rail corridor (4 round trips daily). Includes corridor infrastructure improvements and 2 new stations.	\$41.40	\$0.00	\$0.00	\$8.20	\$0.00	\$33.20																									\$41.40	\$0.00	\$0.00	\$8.20	\$0.00	\$33.20				
28E	Passenger: Intercity	2014-2018	Oper	G	NS	NS	Intercity Passenger Rail	Ann Arbor to Detroit Regional Rail. Operating & Maintenance.	\$20.80	\$0.00	\$5.72	\$6.12	\$4.00	\$4.96	\$31.20	\$0.00	\$8.58	\$9.18	\$6.00	\$7.44																			\$52.00	\$0.00	\$14.30	\$15.30	\$10.00	\$12.40				
29A	Passenger: Intercity	2011-2014	Track	G	GLC	GLC	Intercity Passenger Rail	Howell to Ann Arbor Regional Rail (WALLY): Infrastructure improvements on the 26-mile corridor.	\$31.70	\$0.00	\$0.00	\$5.30	\$0.00	\$26.40																										\$31.70	\$0.00	\$0.00	\$5.30	\$0.00	\$26.40			
29E	Passenger: Intercity	2014-2018	Oper	G	NS	NS	Intercity Passenger Rail	Howell to Ann Arbor Regional Rail. Operating & Maintenance.	\$18.00	\$0.00	\$0.00	\$1.60	\$4.60	\$11.80	\$27.00	\$0.00	\$0.00	\$2.40	\$6.90	\$17.70																					\$45.00	\$0.00	\$0.00	\$4.00	\$11.50	\$29.50		
30A	Passenger: Intercity	2015	Study	G	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail Corridor Study: Alternatives analysis for initiating intercity passenger rail service	\$2.45	\$0.00	\$1.96	\$0.49	\$0.00	\$0.00																											\$2.45	\$0.00	\$1.96	\$0.49	\$0.00	\$0.00		
31A	Passenger: Intercity	2014-2015	Study	G	TBD	TBD	Intercity Passenger Rail	Detroit to Toledo, OH Intercity Passenger Rail Corridor Study: Alternatives analysis for initiating intercity passenger rail service	\$1.00	\$0.00	\$0.80	\$0.20	\$0.00	\$0.00																												\$1.00	\$0.00	\$0.80	\$0.20	\$0.00	\$0.00	
34	Passenger: Intercity	2014-2030	Oper	G	Various	Various	Various	Annual State Operating Subsidy for Wolverine Service. \$25 million/year starting in 2014.	\$50.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50.00	\$125.00	\$0.00	\$0.00	\$0.00	\$0.00	\$125.00	\$125.00	\$0.00	\$0.00	\$0.00	\$0.00	\$125.00	\$125.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$125.00	\$425.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$425.00								
44	Freight	2011-2020	Track	G	CP	CP	N/A	Detroit River Tunnel: Construct new rail tunnel between Detroit and Windsor. New tunnel will accommodate double stack trains and provide competitive, cost effective service. Source of other funds - Canada.	\$195.00	\$0.00	\$0.00	\$0.00	\$95.00	\$100.00	\$195.00	\$0.00	\$0.00	\$0.00	\$95.00	\$100.00																							\$390.00	\$0.00	\$0.00	\$0.00	\$190.00	\$200.00
45	Freight	2011-2015	PTC	G	Various	NS Amtrak	N/A	Positive Train Control (Federally-Mandated by 2015 for all corridors on which passenger trains and hazardous materials are operated.)	\$750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750.00																													\$750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$750.00

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Project Name/Description	2011 - 2015						2016 - 2020						2021 - 2025						2026 - 2030						Total Financial Resources					
					Ownership	Operating Rights	Passenger/Commuter		Total	Railroad	Federal	State	Other	Unfunded	Capital Cost	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded
47A	Freight	2011-2030	Track	G	Statewide	Various	N/A	Rail Infrastructure Improvement Program (\$40M total)	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00	\$4.50	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.50	\$4.50	\$0.00	\$0.00	\$0.00	\$0.00	\$4.50	\$18.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18.00					
47B	Freight: Regional/Shortline/Switching	2021-2030	Track	G	Statewide	Various	N/A	Rail Infrastructure Improvement Projects: TBD projects that exceed projected MOW investments and MDOT funding programs' scope							\$87.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$87.50	\$87.50	\$0.00	\$0.00	\$0.00	\$0.00	\$87.50	\$175.00	\$0.00	\$0.00	\$0.00	\$0.00	\$175.00					
48B	Freight	2011-2030	Track	G	Statewide	Various	N/A	Freight Economic Development Program (\$30M total)	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00					
51	Freight: DIFT	2016-2030*	Track	G	MDOT	Various	N/A	Detroit Intermodal Freight Terminal - Exterior Roadway Improvements: 1. Central Avenue (will be 100% State funding) 2. Dix/Central Intersection							\$30.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30.19	\$30.19	\$0.00	\$0.00	\$0.00	\$0.00	\$30.19	\$90.56	\$0.00	\$0.00	\$0.00	\$0.00	\$90.56					
56	Freight: DIFT	2016-2030*	Track	G	CP CSX NS CSAO	Various	N/A	Detroit Intermodal Freight Terminal: Civil Works							\$9.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.78	\$9.78	\$0.00	\$0.00	\$0.00	\$0.00	\$9.78	\$29.34	\$0.00	\$0.00	\$0.00	\$0.00	\$29.34					
57	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Beaubien and Milwaukee Junction Interlockings. Includes additional crossover and bridge slot at Brush						\$7.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.20	\$7.20	\$0.00	\$0.00	\$0.00	\$0.00	\$7.20	\$21.59	\$0.00	\$0.00	\$0.00	\$0.00	\$21.59					
58	Freight: DIFT	2016-2030*	Track	G	CN		0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: CN Coolidge and YD Interlockings						\$1.19	\$0.00	\$0.00	\$0.00	\$0.00	\$1.19	\$1.19	\$0.00	\$0.00	\$0.00	\$0.00	\$1.19	\$3.57	\$0.00	\$0.00	\$0.00	\$0.00	\$3.57						
59	Freight: DIFT	2016-2030*	Track	G	Various		0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Delray Interlocking						\$5.36	\$0.00	\$0.00	\$0.00	\$0.00	\$5.36	\$5.36	\$0.00	\$0.00	\$0.00	\$0.00	\$5.36	\$16.09	\$0.00	\$0.00	\$0.00	\$0.00	\$16.09						
60	Freight: DIFT	2016-2030*	Track	G	CP		0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: CP Mill Interlocking						\$0.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.82	\$0.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.82	\$2.45	\$0.00	\$0.00	\$0.00	\$0.00	\$2.45						
61	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Oakwood Junction Interlocking						\$1.53	\$0.00	\$0.00	\$0.00	\$0.00	\$1.53	\$1.53	\$0.00	\$0.00	\$0.00	\$0.00	\$1.53	\$4.60	\$0.00	\$0.00	\$0.00	\$0.00	\$4.60						
62	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Schaefer Interlocking						\$1.49	\$0.00	\$0.00	\$0.00	\$0.00	\$1.49	\$1.49	\$0.00	\$0.00	\$0.00	\$0.00	\$1.49	\$4.47	\$0.00	\$0.00	\$0.00	\$0.00	\$4.47						
63	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Trenton Interlocking						\$2.56	\$0.00	\$0.00	\$0.00	\$0.00	\$2.56	\$2.56	\$0.00	\$0.00	\$0.00	\$0.00	\$2.56	\$7.67	\$0.00	\$0.00	\$0.00	\$0.00	\$7.67						
64	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Vinewood Interlocking						\$1.78	\$0.00	\$0.00	\$0.00	\$0.00	\$1.78	\$1.78	\$0.00	\$0.00	\$0.00	\$0.00	\$1.78	\$5.35	\$0.00	\$0.00	\$0.00	\$0.00	\$5.35						
65	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Waterman and Dix Interlockings						\$1.31	\$0.00	\$0.00	\$0.00	\$0.00	\$1.31	\$1.31	\$0.00	\$0.00	\$0.00	\$0.00	\$1.31	\$3.94	\$0.00	\$0.00	\$0.00	\$0.00	\$3.94						
66	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: West Detroit Interlocking						\$3.34	\$0.00	\$0.00	\$0.00	\$0.00	\$3.34	\$3.34	\$0.00	\$0.00	\$0.00	\$0.00	\$3.34	\$10.03	\$0.00	\$0.00	\$0.00	\$0.00	\$10.03						
67	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: New Rotunda Interlocking						\$1.75	\$0.00	\$0.00	\$0.00	\$0.00	\$1.75	\$1.75	\$0.00	\$0.00	\$0.00	\$0.00	\$1.75	\$5.25	\$0.00	\$0.00	\$0.00	\$0.00	\$5.25						
68	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Delray to Dix Interlockings						\$0.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.87	\$0.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.87	\$2.60	\$0.00	\$0.00	\$0.00	\$0.00	\$2.60						
69	Freight: DIFT	2016-2030*	Track	G		0	0	N/A	Detroit Intermodal Freight Terminal - External Railroad Improvements: Oakwood Junction to Schaefer Interlockings						\$4.73	\$0.00	\$0.00	\$0.00	\$0.00	\$4.73	\$4.73	\$0.00	\$0.00	\$0.00	\$0.00	\$4.73	\$14.19	\$0.00	\$0.00	\$0.00	\$0.00	\$14.19						
72B	Freight/Passenger	2011-2030	Xing	G	Various	Various	Various	Local Grade Crossing Program (\$158M total)	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$40.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40.00					
73B	Freight/Passenger	2011-2030	Xing	G	Various	Various	Various	Trunkline Railroad Crossing Program (\$94M total)	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.00	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.00	\$9.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.00	\$36.00	\$0.00	\$0.00	\$0.00	\$0.00	\$36.00					
74B	State-Owned Rail Lines	2016-2030	Track	G	Various	Various	Various	Capital Development for State-Owned Rail (\$39.7M total)	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$7.50	\$0.00	\$0.00	\$0.00	\$0.00	\$7.50					
75B	State-Owned Rail Lines	2016-2030	Track	G	Various	Various	N/A	State-Owned Rail Property Management	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$2.50	\$0.00	\$0.00	\$0.00	\$0.00	\$2.50	\$7.50	\$0.00	\$0.00	\$0.00	\$0.00	\$7.50					
76	Freight: Regional/Shortline/Switching	2011-2015	Xing	G	GLC	GLC	N/A	M-21 Crossing Signal	\$0.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.30													\$0.30	\$0.00	\$0.00	\$0.00	\$0.00	\$0.30						
85	Freight: Regional/Shortline/Switching	2011-2015	Track	G	LSI	LSI	N/A	Capital Maintenance Project: Grade crossing repair including signal infrastructure improvements/ maintenance	\$1.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.00													\$1.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.00						
86	Freight: Regional/Shortline/Switching	2016-2020	Track	G	GR	GR	N/A	Capital Maintenance Project: Remove 90-lb. rail from mainline and replacing 25.7 miles of track with a larger rail size						\$10.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.28							\$10.28	\$0.00	\$0.00	\$0.00	\$0.00	\$10.28						



Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Project Name/Description	2011 - 2015						2016 - 2020						2021 - 2025						2026 - 2030						Total Financial Resources					
					Ownership	Operating Rights	Passenger/Commuter		Total	Railroad	Federal	State	Other	Unfunded	Capital Cost	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded
123	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Lapeer Industrial	Lapeer Industrial	N/A	Replace condemned bridge to restore rail service and haul hazmat	\$0.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51																		\$0.51	\$0.00	\$0.00	\$0.00	\$0.00	\$0.51	
124	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Marquette Rail	MQT	N/A	Re-route Manistee Branch to eliminate crossings and bridges							\$10.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.50												\$10.50	\$0.00	\$0.00	\$0.00	\$0.00	\$10.50
125	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Michigan Southern	MSO	N/A	Upgrade 17 miles of track to 286,000-pound capacity from White Pigeon to south of Sturgis	\$13.80	\$0.00	\$0.00	\$0.00	\$0.00	\$13.80																		\$13.80	\$0.00	\$0.00	\$0.00	\$0.00	\$13.80	
126	Freight: Regional/Shortline/Switching	2011-2015	Track	G	Mid-Michigan Railroad	MMRR	N/A	Upgrade nine miles of track between Paines and Hemlock	\$0.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.90																		\$0.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.90	
127	Freight: Regional/Shortline/Switching	2011-2015	Out	G	Norfolk Southern	NS	N/A	Construct new rail infrastructure to serve the Ford Heritage Assembly plant in Dearborn	\$4.38	\$0.00	\$0.00	\$0.00	\$0.00	\$4.38																		\$4.38	\$0.00	\$0.00	\$0.00	\$0.00	\$4.38	
128	Freight: Regional/Shortline/Switching	2011-2015	Study	G	Various	Various	N/A	Northern Michigan intermodal freight terminal feasibility study	\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50																		\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50	
129	Freight: Regional/Shortline/Switching	2016-2020	Study	G	ELS	ELS	N/A	Study development of coal dock and adjoining railroad property in Escanaba							\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50												\$0.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.50	
130	Freight: Regional/Shortline/Switching	2011-2030	Xing	G	Statewide	Various	Various	Crossing surface improvements on local roads	\$25.00	\$10.00	\$0.00	\$0.00	\$0.00	\$15.00	\$25.00	\$10.00	\$0.00	\$0.00	\$0.00	\$15.00	\$25.00	\$10.00	\$0.00	\$0.00	\$0.00	\$15.00	\$25.00	\$10.00	\$0.00	\$0.00	\$0.00	\$15.00	\$100.00	\$40.00	\$0.00	\$0.00	\$0.00	\$60.00
131	Freight: Regional/Shortline/Switching	2011-2030	Xing	G	Statewide	Various	Various	Crossing safety re-configurations	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$5.00	\$0.00	\$0.00	\$0.00	\$5.00	\$5.00	\$0.00	\$0.00	\$0.00	\$5.00	\$20.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20.00		
132	Freight: Regional/Shortline/Switching	2016-2020	Track	G	ELS	ELS	N/A	Log Cars & Locomotives: Acquisition of additional log cars and new locomotives							\$0.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.80												\$0.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.80	
133	Freight: Regional/Shortline/Switching	2016-2020	Track	G	ELS	ELS	N/A	Capital maintenance project: Ties and ballast replacement							\$13.50	\$0.00	\$0.00	\$0.00	\$0.00	\$13.50												\$13.50	\$0.00	\$0.00	\$0.00	\$0.00	\$13.50	
134	Freight: Regional/Shortline/Switching	2016-2020	Track	G	A&B	A&B	N/A	Construct railcar repair shop to benefit shipping efficiency							\$0.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.93												\$0.93	\$0.00	\$0.00	\$0.00	\$0.00	\$0.93	
135	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Huron & Eastern	H&E	N/A	Rebuild & expand Bay City locomotive repair facility							\$0.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.90												\$0.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.90	
136	Freight: Regional/Shortline/Switching	2016-2020	Track	G	Huron & Eastern	H&E	N/A	Construct Buena Vista MOW facility							\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.20												\$0.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.20	
<b>Good Scenario</b>									\$2,350.99	\$39.36	\$235.36	\$50.27	\$113.50	\$1,912.50	\$610.56	\$10.00	\$8.58	\$11.58	\$107.90	\$472.50	\$357.40	\$10.00	\$0.00	\$0.00	\$0.00	\$347.40	\$357.40	\$10.00	\$0.00	\$0.00	\$0.00	\$347.40	\$3,676.34	\$69.36	\$243.94	\$61.85	\$221.40	\$3,079.79
<b>Baseline Scenario</b>									\$1,148.22	\$712.60	\$327.41	\$95.15	\$13.06	\$0.00	\$823.97	\$710.92	\$30.92	\$74.13	\$8.00	\$0.00	\$810.59	\$696.83	\$29.00	\$76.77	\$8.00	\$0.00	\$810.59	\$696.83	\$29.00	\$76.77	\$8.00	\$0.00	\$3,593.37	\$2,817.16	\$416.33	\$322.82	\$37.06	\$0.00
<b>Total</b>									\$3,499.21	\$751.96	\$562.77	\$145.42	\$126.56	\$1,912.50	\$1,434.52	\$720.92	\$39.50	\$85.71	\$115.90	\$472.50	\$1,167.99	\$706.83	\$29.00	\$76.77	\$8.00	\$347.40	\$1,167.99	\$706.83	\$29.00	\$76.77	\$8.00	\$347.40	\$7,269.71	\$2,886.52	\$660.27	\$384.67	\$258.46	\$3,079.79

Summary by Service Type

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Project Name/Description	2011 - 2015						2016 - 2020						2021 - 2025						2026 - 2030						Total Financial Resources					
					Ownership	Operating Rights	Passenger/Commuter		Total	Railroad	Federal	State	Other	Unfunded	Capital Cost	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded
	Passenger: HSR								\$756.20	\$18.75	\$150.00	\$18.75	\$9.90	\$558.80	\$10.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00	\$0.00	\$0.00	\$10.00	\$10.00	\$0.00	\$0.00	\$0.00	\$10.00	\$786.20	\$18.75	\$150.00	\$18.75	\$9.90	\$588.80		
	Passenger: Intercity								\$503.12	\$9.61	\$85.36	\$31.52	\$8.60	\$368.03	\$183.20	\$0.00	\$8.58	\$11.58	\$12.90	\$150.14	\$125.00	\$0.00	\$0.00	\$0.00	\$125.00	\$125.00	\$0.00	\$0.00	\$0.00	\$125.00	\$936.32	\$9.61	\$93.94	\$43.10	\$21.50	\$768.17		
	Freight								\$952.00	\$0.00	\$0.00	\$0.00	\$95.00	\$857.00	\$202.00	\$0.00	\$0.00	\$0.00	\$95.00	\$107.00	\$7.00	\$0.00	\$0.00	\$0.00	\$7.00	\$7.00	\$0.00	\$0.00	\$0.00	\$7.00	\$1,168.00	\$0.00	\$0.00	\$0.00	\$190.00	\$978.00		
	Freight: DIFT								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$73.90	\$0.00	\$0.00	\$0.00	\$0.00	\$73.90	\$73.90	\$0.00	\$0.00	\$0.00	\$73.90	\$73.90	\$0.00	\$0.00	\$0.00	\$73.90	\$221.69	\$0.00	\$0.00	\$0.00	\$0.00	\$221.69		
	Freight/Passenger								\$19.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.00	\$19.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19.00	\$19.00	\$0.00	\$0.00	\$0.00	\$19.00	\$19.00	\$0.00	\$0.00	\$0.00	\$19.00	\$76.00	\$0.00	\$0.00	\$0.00	\$0.00	\$76.00		
	State-Owned Rail Lines								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5.00	\$5.00	\$0.00	\$0.00	\$0.00	\$5.00	\$5.00	\$0.00	\$0.00	\$0.00	\$5.00	\$15.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15.00		
	Freight: Regional/Shortline/Switching								\$120.66	\$11.00	\$0.00	\$0.00	\$0.00	\$109.66	\$117.46	\$10.00	\$0.00	\$0.00	\$0.00	\$107.46	\$117.50	\$10.00	\$0.00	\$0.00	\$107.50	\$117.50	\$10.00	\$0.00	\$0.00	\$107.50	\$473.12	\$41.00	\$0.00	\$0.00	\$0.00	\$432.12		
<b>TOTAL</b>									\$2,350.99	\$39.36	\$235.36	\$50.27	\$113.50	\$1,912.50	\$610.56	\$10.00	\$8.58	\$11.58	\$107.90	\$472.50	\$357.40	\$10.00	\$0.00	\$0.00	\$0.00	\$347.40	\$357.40	\$10.00	\$0.00	\$0.00	\$0.00	\$347.40	\$3,676.34	\$69.36	\$243.94	\$61.85	\$221.40	\$3,079.79

Michigan State Rail Plan

“Better” Investment Package





Michigan State Rail Plan

“Best” Investment Package

Capital Costs in 2010 \$Millions

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Project Name/Description	2011 - 2015						2016 - 2020						2021 - 2025						2026 - 2030						Total Financial Resources									
					Ownership	Operating Rights	Passenger/Commuter		Total	Railroad	Federal	State	Other	Unfunded	Capital Cost	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded				
2	Passenger: HSR	2013-2030	Track	U	TBD	TBD	Amtrak	Chicago to Detroit/Pontiac Corridor: Chicago, IL to Porter, IN/South-of-the-Lake Corridor - Corridor infrastructure improvements for enhancements to Michigan intercity rail service (MWRR)	\$100.41	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.41	\$167.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$167.35	\$167.35	\$0.00	\$0.00	\$0.00	\$0.00	\$167.35	\$167.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$167.35	\$602.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$602.45
13B	Passenger: HSR	2017-2030	Equip	U	N/A	N/A	Amtrak	New Passenger Train Sets (Cars and Locomotives) - Additional 7 trainsets for expanded HSR service							\$107.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$107.14	\$133.93	\$0.00	\$0.00	\$0.00	\$0.00	\$133.93	\$133.93	\$0.00	\$0.00	\$0.00	\$0.00	\$133.93	\$375.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$375.00		
30C	Passenger: Intercity	2018-2030	Track	U	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail Final Design/Construction: Corridor infrastructure (track, signal and highway/rail crossings) improvements to initiate intercity passenger rail service - approximately 255 miles							\$56.54	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56.54	\$94.23	\$0.00	\$0.00	\$0.00	\$0.00	\$94.23	\$94.23	\$0.00	\$0.00	\$0.00	\$0.00	\$94.23	\$245.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$245.00		
30D	Passenger: Intercity	2018-2030	Equip	U	TBD	TBD	Intercity Passenger Rail	Traverse City/Petoskey Intercity Passenger Rail: Locomotives and passenger rail cars/train sets to initiate intercity passenger rail service (3 trainsets)	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.00	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.00	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.00	\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.00	\$84.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84.00		
<b>Best Scenario</b>								\$121.41	\$0.00	\$0.00	\$0.00	\$0.00	\$121.41	\$352.03	\$0.00	\$0.00	\$0.00	\$0.00	\$352.03	\$416.51	\$0.00	\$0.00	\$0.00	\$0.00	\$416.51	\$416.51	\$0.00	\$0.00	\$0.00	\$0.00	\$416.51	\$1,306.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,306.45				
<b>Baseline + Good + Better Scenarios</b>								\$3,749.81	\$751.96	\$562.77	\$145.42	\$126.56	\$2,163.10	\$1,638.99	\$720.92	\$39.50	\$85.71	\$115.90	\$676.96	\$1,258.47	\$706.83	\$29.00	\$76.77	\$8.00	\$437.87	\$1,220.97	\$706.83	\$29.00	\$76.77	\$8.00	\$400.37	\$7,868.23	\$2,886.52	\$660.27	\$384.67	\$258.46	\$3,678.31					
<b>Total</b>								\$3,871.21	\$751.96	\$562.77	\$145.42	\$126.56	\$2,284.51	\$1,991.02	\$720.92	\$39.50	\$85.71	\$115.90	\$1,028.99	\$1,674.97	\$706.83	\$29.00	\$76.77	\$8.00	\$854.38	\$1,637.47	\$706.83	\$29.00	\$76.77	\$8.00	\$816.88	\$9,174.68	\$2,886.52	\$660.27	\$384.67	\$258.46	\$4,984.76					

Summary by Service Type

Project Number	Service Type	FY Year / Term	Category	Bundle	Railroad			Project Name/Description	2011 - 2015						2016 - 2020						2021 - 2025						2026 - 2030						Total Financial Resources						
					Ownership	Operating Rights	Passenger/Commuter		Total	Railroad	Federal	State	Other	Unfunded	Capital Cost	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	Total	Railroad	Federal	State	Other	Unfunded	
	Passenger: HSR								\$100.41	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100.41	\$274.49	\$0.00	\$0.00	\$0.00	\$0.00	\$274.49	\$301.28	\$0.00	\$0.00	\$0.00	\$0.00	\$301.28	\$301.28	\$0.00	\$0.00	\$0.00	\$0.00	\$301.28	\$977.45	\$0.00	\$0.00	\$0.00	\$0.00	\$977.45
	Passenger: Intercity								\$21.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21.00	\$77.54	\$0.00	\$0.00	\$0.00	\$0.00	\$77.54	\$115.23	\$0.00	\$0.00	\$0.00	\$0.00	\$115.23	\$115.23	\$0.00	\$0.00	\$0.00	\$0.00	\$115.23	\$329.00	\$0.00	\$0.00	\$0.00	\$0.00	\$329.00	
	Freight								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
	Freight: DIFT								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00				
	Freight/Passenger								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					
	State-Owned Rail Lines								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00					
	Freight: Regional/Shortline/Switching								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00						
	<b>TOTAL</b>								\$121.41	\$0.00	\$0.00	\$0.00	\$0.00	\$121.41	\$352.03	\$0.00	\$0.00	\$0.00	\$0.00	\$352.03	\$416.51	\$0.00	\$0.00	\$0.00	\$0.00	\$416.51	\$416.51	\$0.00	\$0.00	\$0.00	\$0.00	\$416.51	\$1,306.45	\$0.00	\$0.00	\$0.00	\$0.00	\$1,306.45	

Michigan State Rail Plan

# Summary of Investment Packages

Summary - Cumulative Totals - Each Scenario Includes All Preceding Scenarios

Table with 30 columns: Corridor, 2011-2015 (Capital Cost, Railroad, Federal, State, Other, Unfunded), 2016-2020 (Capital Cost, Railroad, Federal, State, Other, Unfunded), 2021-2025 (Capital Cost, Railroad, Federal, State, Other, Unfunded), 2026-2030 (Capital Cost, Railroad, Federal, State, Other, Unfunded), and Total Financial Resources (Capital Cost, Railroad, Federal, State, Other, Unfunded). Rows include Baseline Scenario, Good Scenario, Better Scenario, and Best Scenario, with a GRAND TOTAL row at the bottom.

Unmet Needs Funding Scenarios

In 2010 \$Millions

Table with 13 columns: Funding Program, and three scenarios (Good 2011-2030, Better 2011-2030, Best 2011-2030) with sub-columns for Unmet Needs, Railroad, Federal, and State. Rows include Federal HSIPR Program, Passenger Rail - Operating, Freight: Detroit River Tunnel, PTC, Grade Crossing Improvement Program, Rail Infrastructure Improvement Program, State Owned Rail Lines Program, Freight Economic Development Program, Freight: DIFT, and Freight: Regional/Shortline/Switching, ending with a Total row.