



Appendix E: Red Flag Investigation



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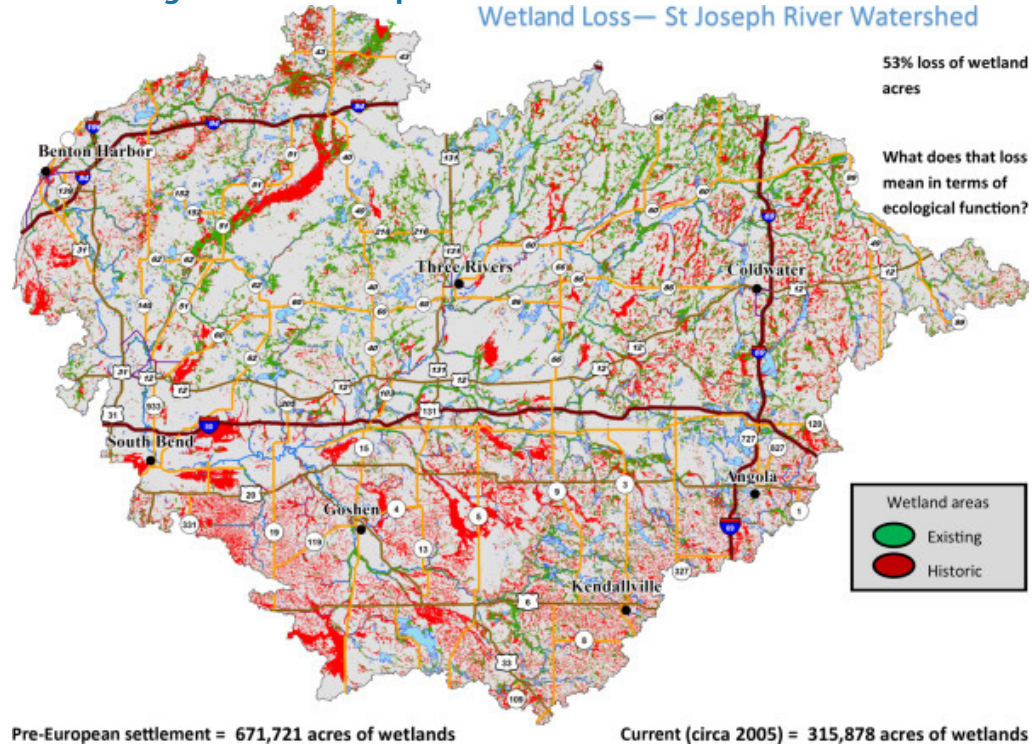
The National Environmental Policy Act of 1969 (NEPA) established a national policy to promote the protection of the environment in the actions and programs of federal agencies. The Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) act as lead federal agencies, and are responsible for implementing the NEPA process and working with state and local project sponsors during transportation project development. All transportation projects have the potential to impact our environment; therefore, it is essential that environmental considerations are identified during the planning and design phases.

The FHWA and FTA NEPA process is designed to assist transportation officials in making project decisions that balance engineering and transportation needs with the consideration of social, economic, and environmental factors. This process allows for involvement and input from the public, interest groups, resource agencies, and local governments. The process is used as an “umbrella” for compliance with over 40 environmental laws, regulations, and executive orders, and provides an integrated approach to addressing impacts to the human and natural environment from transportation projects.

While an in depth environmental review is not appropriate at this stage for projects included in the Transportation Plan, an initial consultation with environmental and cultural resources agencies is important to provide an opportunity to share plans and discuss future activities during project development. The following list includes partners who were contacted for feedback related to the plan.

Environmental and Cultural Resource Partners
Indiana Department of Environmental Management, Office of Air Quality
Indiana Department of Natural Resources, Division of Historic Preservation & Archaeology
Indiana State Department of Agriculture, Soil and Water Conservation Districts
USDA National Resources Conservation Services
US Fish and Wildlife Services (USFWS)
US EPA Region 5
US EPA, Ground Water & Drinking Water Brand (Sole Source Aquifer)
US Army Corps of Engineers
Saint Joseph River Basin Commission
Shirley Heinz Land Trust
Izaak Walton League
Pokagon Band of Potawatomi
Local Historic Preservation Offices

Figure E-1: St. Joseph River Watershed Wetland Loss Justice
 Wetland Loss— St Joseph River Watershed



In the St. Joseph River Watershed, 53% of pre-settlement wetlands have been lost (see Figure E-1). In an effort to mitigate any further impacts to wetlands, MACOG will work with our environmental partners, such as the Shirley Heinz Land Trust, to ensure that wetland mitigation occurs with the development of transportation projects.

Red Flag Investigations are another key component to MACOG's compliance with NEPA, hazardous material requirements, as well as MACOG's commitment to a healthy environment. A red flag investigation is a preliminary environmental analysis that identifies potential impacts to Infrastructure, Mining/Mineral Exploration, Hazardous Material Concerns, Water Resources, and Historical Resources within a ½ mile radius of a proposed project area. The results

from this analysis will be incorporated into project planning, design, and construction with the goal of minimizing impacts to local resources.

Projects advancing to construction will require additional studies and detailed design to more clearly describe project features. This process enables environmental impacts and appropriate mitigation measures to be established. Projects using state or federal funds will require detailed environmental study and permitting in conformance with the National Environmental Policy Act (NEPA) and other federal, state and local regulations.

Preliminary Red Flag Investigation Data

The following is a listing of potential impacts to Infrastructure, Mining/Mineral Exploration, Hazardous Materials and Water Resources based on results from red flag investigations performed by MACOG. The categories included in the review were chosen because they were generally available throughout the region in a GIS format.

Table E-1: Infrastructure

Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
Elkhart County												
CR 118	Old CR 17 to CR 19	New Road Construction	✓		✓							✓
CR 13	Sunnyside Ave to US 20	Added Travel Lanes	✓	✓	✓	✓				✓	✓	✓
CR 15	CR 6 to CR 104	New Road Construction			✓	✓	✓			✓	✓	
CR 17	CR 142 to CR 38	New Road Construction	✓	✓	✓							
CR 17	CR 46 to CR 142	New Road Construction		✓								
CR 17	CR 50 to CR 46	New Road Construction										
CR 17	US 6 to CR 50	New Road Construction						✓				✓
CR 18	CR 13	Intersection Improvement										
CR 20	CR 111	Intersection Improvement		✓	✓							✓
CR 20	SR 15	Intersection Improvement						✓		✓	✓	✓
CR 20	SR 19 to US 33	Added Travel Lanes	✓	✓	✓	✓	✓			✓	✓	✓
CR 22	CR 3	Intersection Improvement								✓	✓	
CR 24	CR 3	Intersection Improvement			✓					✓		
CR 26	SR 15 to CR 31	New Road Construction	✓	✓		✓	✓	✓	✓	✓		✓
CR 31	CR 36 to CR 26	New Road Construction	✓	✓		✓						✓
CR 38	SR 119 to CR 17	Center Turn Lanes	✓		✓							

Table E-1: Infrastructure

Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
CR 40	SR 19 to SR 119	Added Travel Lanes	✓	✓	✓							
CR 43	CR 1400 N to US 6	Added Capacity										✓
CR 52	CR 101 to SR 19	Road Reconstruction	✓			✓				✓		✓
CR 6	Ash Rd to CR 10	Added Travel Lanes					✓	✓		✓	✓	
CR 6	CR 10 to John Weaver Parkway	Added Travel Lanes					✓			✓	✓	
Johnson St	Bristol St to SR 4	Added Travel Lanes			✓		✓	✓		✓	✓	
Kerryhaven Dr	Current Termini to CR 10	New Road Construction			✓		✓	✓		✓	✓	
Old SR 17	SR 18 to Love's Dr	New Road Construction		✓	✓	✓						
Sunnyside Dr	US 33 to CR 13	Added Travel Lanes								✓	✓	
2nd St	Harrison St to Jefferson St	One-Way to Two-Way		✓		✓	✓	✓		✓	✓	✓
3rd St	Harrison St to Jefferson St	One-Way to Two-Way		✓		✓	✓	✓		✓	✓	✓
Benham Ave	Lusher Ave to Indiana Ave	Road Reconstruction		✓		✓	✓			✓	✓	✓
Bristol St	Johnson St to Jeanwood Dr	Road Diet			✓	✓	✓			✓		
Bristol St	Jeanwood Dr to CR 15	Added Travel Lanes			✓	✓	✓			✓		
CR 6	CR 6 to Cassopolis St	Intersection Improvement										
Goshen Ave	Jackson Blvd to Middlebury St	Road Reconstruction	✓	✓	✓	✓	✓			✓	✓	
Hively Ave	Norfolk Southern Railroad (#510012C)	Grade Separation		✓		✓	✓			✓		✓
Indiana Ave	Oakland Ave	Intersection Improvement		✓			✓		✓	✓		✓
Jackson Blvd	Goshen Ave	Intersection Improvement		✓	✓	✓	✓			✓	✓	
Jackson Blvd	Goshen Ave to Riverview Ave	Road Diet		✓	✓	✓	✓			✓	✓	
Jackson Blvd	Main St to Johnson St	Road Reconstruction	✓	✓	✓	✓	✓			✓	✓	

Table E-1: Infrastructure

Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
Main St	Beardsley Ave	Intersection Improvement		✓	✓	✓	✓			✓	✓	
Main St	Hively Ave to Lusher Ave	Road Diet		✓	✓	✓	✓			✓	✓	✓
Middlebury St	Prairie St to Goshen Ave	Added Travel Lanes	✓	✓	✓	✓				✓	✓	
Northside Connector	Adamsville Rd to Johnson St	New Road Construction			✓							
Prairie St	Mishawaka Rd to Lusher Ave	Added Travel Lanes	✓			✓	✓			✓	✓	✓
Sunny Dr	Northpointe Blvd to CR 4	New Road Construction								✓	✓	
Toledo Rd	Goshen Ave to Indiana Ave	Intersection Improvement	✓			✓	✓			✓		✓
College Ave	US 33 to Century Dr	Center Turn Lanes		✓	✓	✓	✓					
CR 142	CR 17 to CR 15	Added Travel Lanes		✓								✓
US 33	Fairfield Ave to Plymouth Ave	Auxiliary Lanes										
CR 40	Dierdorff Rd to US 33	Center Turn Lanes										✓
Waterford Mills Pkwy	CR 40 to SR 15	New Road Construction	✓	✓		✓	✓			✓	✓	✓
Wilden Ave	Current Termini to Middlebury St	New Road Construction				✓	✓		✓	✓	✓	✓
CR 16	SR 13 to County Line Rd	Horse and Buggy Lanes										
CR 101	Market St to CR 52	Road Reconstruction		✓	✓							✓
CR 150	SR 19 to CR 3	New Road Construction	✓	✓	✓					✓		✓
Maple Ln	CR 42 to Wabash Ave	Center Turn Lanes	✓	✓	✓					✓		✓
Orchard Park Dr	Current Termini to SR 19	New Road Construction								✓	✓	
Kosciusko County												
Armstrong Rd	CR 200 E	Intersection Improvement										
County Farm Rd	SR 14 to CR 700 S	Added Capacity	✓	✓		✓	✓					
CR 1200 N	Syracuse Webster Rd/N 500 E	Intersection Improvement	✓			✓				✓		✓

Table E-1: Infrastructure

Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
CR 1300 N	Norfolk Southern Railroad (New Crossing)	Grade Separation		✓				✓		✓		
CR 1300 N	SR 15 to Old SR 15	New Road Construction		✓				✓		✓		
CR 200 E / N 100 E	E 200 N to Armstrong Rd	Added Capacity	✓			✓	✓	✓		✓		✓
CR 225 S	CR 200 S to Packerton Rd	Added Capacity				✓		✓		✓		✓
CR 350 W	Old US 30 to US 30	Added Capacity		✓		✓				✓		✓
CR E 450 N	CR N 100 E	Intersection Improvement	✓		✓							✓
CR 800 W	US 30 to SR 19 / W 900 N	Added Travel Lanes	✓		✓							✓
CR 700 S	SR 19 to County Farm Rd	Added Travel Lanes	✓	✓						✓	✓	✓
CR 900 N	CR 500 S to SR 25	Added Travel Lanes		✓	✓					✓		
N Fox Farm Rd	CR 150 W to US 30	Added Capacity	✓		✓	✓	✓	✓		✓		✓
New Road (CR 350 E)	Pierceton Rd to Wooster Rd	New Road Construction		✓								✓
New Road (CR 850 W)	W 1350 N to Indiana Ave	New Road Construction	✓	✓	✓	✓				✓		✓
Old US 30	CR 350 W	Intersection Improvement		✓		✓				✓		
Old US 30	N Zimmer Rd to CR 350 W	Added Capacity		✓		✓				✓		✓
Pierceton Rd	Parckerton Rd to Market St	Added Capacity		✓		✓	✓	✓		✓	✓	✓
CR 1350 N	CR 700 W to CR 950 N	Road Reconstruction										✓
Wawasee Dr (CR 900 E)	Morris Rd to County Line Rd	Added Capacity	✓	✓		✓		✓		✓		✓
Jackson Street	W 1350 N to Current Termini	New Road Construction										
CR 100 E	CR 250 N to CR 300 N	Road Realignment										
CR 100 S	SR 15 to Country Club Rd	New Road Construction	✓	✓		✓	✓		✓	✓	✓	✓

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Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
CR 150 W	Lake St to US 30	Added Travel Lanes		✓	✓	✓				✓	✓	✓
CR 300 N	Shelden Dr	Intersection Improvement		✓		✓	✓	✓				✓
Market St	Norfolk Southern	Grade Separation		✓		✓	✓			✓		✓
Parker St	Center St	Intersection Improvement		✓		✓	✓			✓	✓	
Sheridan St	Parker St to Harrison	New Road Construction		✓		✓	✓	✓				✓
Zimmer Rd	SR 25 to Old US 30	Added Capacity		✓		✓				✓		✓
Zimmer Rd	Winona Ave	Intersection Improvement		✓		✓						✓
Columbus Dr	Pierceton Rd to Chestnut St	New Road Construction		✓		✓	✓			✓		✓
Kings Hwy/ Winona Ave	Parke Ave/ Argonne Rd to	Intersection Improvement		✓	✓	✓	✓					✓
Packerton Rd	CR 225 S to Pierceton Rd	Added Travel Lanes				✓		✓		✓		✓
Pierceton Rd	CR 250 E	Safety Improvement				✓						✓
Pierceton Rd	Packerton Rd	Intersection Improvement				✓				✓		✓
Wooster Rd	Kings Hwy	Intersection Improvement		✓	✓	✓				✓	✓	✓
Wooster Rd	CR 250 E	Intersection Improvement		✓	✓	✓				✓	✓	✓
Marshall County												
Lincoln Hwy	Pioneer Dr	Intersection Improvement		✓								
Michigan Rd	12 B Rd to US 31	Intersection Improvement	✓	✓			✓					✓
Veterans Pkwy	Michigan Rd to Pioneer Dr	New Road Construction		✓						✓		✓
Main St	Davis St	Intersection Improvement	✓	✓			✓					✓
Hoham Dr	Oak Dr to Michigan Rd	Center Turn Lanes		✓						✓		✓
Jim Neu Dr	Western Ave to Oak Dr	New Road Construction	✓	✓			✓			✓	✓	✓

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Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
Richter Rd	Jefferson St to Baker St	Road Reconstruction		✓		✓	✓			✓		✓
Plymouth Municipal Airport		Runway Extension		✓						✓		✓
Oak Rd	US 30 to Hoham Dr	Added Travel Lanes		✓						✓		✓
Suter Rd	Lincoln Hwy to 9A Rd	New Road Construction		✓	✓							✓
St. Joseph County												
Cleveland Rd	Beech Rd	Intersection Improvement						✓				
Douglas Rd/ Cleveland Rd Connector	Bittersweet Rd to Beech Rd	New Road Construction						✓				✓
Douglas Rd	Canadian National	Grade Separation		✓		✓						✓
Douglas Rd	Bittersweet Rd	Intersection Improvement										✓
Douglas Rd	Ironwood Rd	Intersection Improvement	✓	✓		✓		✓				✓
Douglas Rd	Ivy Rd to SR 23	Added Travel Lanes	✓	✓		✓		✓				✓
Edison Rd	Similax Rd	Intersection Improvement		✓								✓
Edison Rd	Timothy Rd to Walnut Rd	New Road Construction										✓
Edison Rd	Walnut Rd	Intersection Improvement										✓
Filmore Rd	Larrison Rd	Intersection Improvement				✓						
Harrison Rd	Strawberry Rd to Lemon Rd	New Road Construction		✓		✓						✓
Larrison Rd	Filmore Rd	New Road Construction		✓		✓						✓
Pierce Rd	Miami Rd to SR 331	New Road Construction		✓		✓						✓
Snowberry Rd	Hamilton Trl to Hamilton Trl	New Road Construction	✓	✓		✓		✓				✓
Twelfth St	SR 331 to Union St	Added Capacity		✓		✓	✓		✓	✓	✓	✓
Beacon Pkwy Connector	Cleveland Rd to Beacon Pkwy	New Road Construction		✓		✓	✓	✓		✓	✓	✓

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Road	Limits	Type	Cemeteries	Railroads	Religious Facilities	Trails	Managed Lands	Airports	Hospitals	Recreational Facilities	Schools	Pipelines
Catalpa Ave	Filbert Rd to Catalpa Ave	New Road Construction		✓	✓	✓	✓			✓		✓
Division St	Catalpa Ave to Current Terminus	New Road Construction		✓	✓	✓	✓	✓		✓	✓	✓
Elwood Ave	SR 331	Intersection Improvement		✓		✓	✓		✓	✓	✓	✓
Fir Rd	McKinley Ave to 1-80/90	Center Turn Lanes		✓			✓	✓		✓	✓	✓
Fulmer Rd	Current Terminus to Clover Rd	New Road Construction	✓	✓		✓	✓	✓		✓	✓	✓
Grape Rd	Douglas Rd	Intersection Improvement										
Hickory Rd	Helper St to SR 23	New Road			✓	✓	✓			✓		✓
Jefferson Blvd	Byrkit St to Cedar St	Safety Improvement		✓		✓	✓			✓	✓	✓
McKinley Ave	Fir Rd to Division St	Added Capacity		✓		✓	✓	✓		✓	✓	✓
Twelfth St	Campbell St to Dodge St	Added Travel Lanes		✓		✓	✓		✓	✓	✓	✓
Union St	Irelto Dr to Sixth St	Added Capacity			✓	✓	✓		✓	✓	✓	✓
Veterans Pkwy	Cul-de-Sac to Cleveland Rd	New Road Construction										
Veterans Pkwy	Cul-de-Sac to Douglas Rd	New Road Construction										✓
Bendix Dr	Betrand Rd to Lathrop Rd	Road Diet	✓	✓		✓	✓	✓		✓	✓	✓
Bertrand Rd	Meade St to Bendix Dr	Safety Improvement		✓		✓	✓			✓	✓	✓
Colfax St	SR 23 to Colfax Bridge	Center Turn Lanes	✓		✓	✓	✓		✓	✓	✓	✓
Lincolnway West	Olive St	Intersection Improvement		✓		✓	✓	✓		✓	✓	
Meade St	Orange Rd to Bertrto Rd	Safety Improvement		✓		✓	✓			✓	✓	✓
Sample St	Maryflower Rd	Intersection Improvement				✓	✓			✓	✓	✓
Sample St	SR 23 to Mayflower Rd	Safety Improvement				✓	✓			✓	✓	✓
Sheridan St	Lincolnway to Progress Dr	Road Reconstruction		✓		✓	✓	✓		✓	✓	✓

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
Elkhart County																				
CR 118	Old CR 17 to CR 19	New Road Construction	✓	✓	✓	✓					✓		✓							
CR 13	Sunnyside Ave to US 20	Added Travel Lanes		✓	✓	✓					✓		✓							
CR 15	CR 6 to CR 104	New Road Construction			✓	✓					✓		✓							
CR 17	CR 142 to CR 38	New Road Construction			✓	✓						✓	✓							
CR 17	CR 46 to CR 142	New Road Construction			✓	✓						✓								
CR 17	CR 50 to CR 46	New Road Construction		✓	✓	✓	✓						✓							
CR 17	US 6 to CR 50	New Road Construction		✓	✓	✓	✓						✓							
CR 18	CR 13	Intersection Improvement																		
CR 20	CR 111	Intersection Improvement		✓	✓	✓					✓		✓							
CR 20	SR 15	Intersection Improvement		✓	✓	✓	✓				✓		✓							
CR 20	SR 19 to US 33	Added Travel Lanes		✓	✓	✓					✓		✓							
CR 22	CR 3	Intersection Improvement		✓	✓	✓	✓				✓		✓							
CR 24	CR 3	Intersection Improvement		✓	✓	✓	✓				✓									
CR 26	SR 15 to CR 31	New Road Construction		✓	✓	✓	✓				✓		✓	✓			✓			
CR 31	CR 36 to CR 26	New Road Construction		✓	✓	✓	✓				✓						✓			
CR 38	SR 119 to CR 17	Center Turn Lanes			✓	✓							✓							
CR 40	SR 19 to SR 119	Added Travel Lanes		✓	✓	✓					✓	✓	✓							

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
CR 43	CR 1400 N to US 6	Added Capacity		✓	✓	✓					✓		✓							
CR 52	CR 101 to SR 19	Road Reconstruction			✓		✓				✓		✓							
CR 6	Ash Rd to CR 10	Added Travel Lanes		✓	✓	✓	✓				✓		✓							
CR 6	CR 10 to John Weaver Parkway	Added Travel Lanes			✓	✓	✓				✓		✓							
Johnson St	Bristol St to SR 4	Added Travel Lanes		✓	✓	✓	✓				✓		✓				✓			
Kerryhaven Dr	Current Termini to CR 10	New Road Construction			✓								✓							
Old SR 17	SR 18 to Love's Dr	New Road Construction		✓	✓	✓							✓							
Sunnyside Dr	US 33 to CR 13	Added Travel Lanes		✓	✓	✓					✓		✓							
2nd St	Harrison St to Jefferson St	One-Way to Two-Way				✓														
3rd St	Harrison St to Jefferson St	One-Way to Two-Way				✓														
Benham Ave	Lusher Ave to Indiana Ave	Road Reconstruction																	✓	
Bristol St	Johnson St to Jeanwood Dr	Road Diet		✓	✓	✓	✓				✓		✓				✓			
Bristol St	Jeanwood Dr to CR 15	Added Travel Lanes		✓	✓	✓	✓				✓		✓				✓			
CR 6	CR 6 to Cassopolis St	Intersection Improvement		✓	✓															
Goshen Ave	Jackson Blvd to Middlebury St	Road Reconstruction			✓	✓	✓				✓	✓								
Hively Ave	Norfolk Southern Railroad (#510012C)	Grade Separation			✓	✓	✓				✓		✓						✓	

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
Indiana Ave	Oakland Ave	Intersection Improvement			✓	✓	✓				✓									
Jackson Blvd	Goshen Ave	Intersection Improvement				✓					✓									
Jackson Blvd	Goshen Ave to Riverview Ave	Road Diet				✓					✓									
Jackson Blvd	Johnson St	Intersection Improvement		✓	✓	✓	✓				✓		✓				✓			
Main St	Beardsley Ave	Intersection Improvement				✓					✓								✓	
Main St	Hively Ave to Lusher Ave	Road Diet			✓	✓	✓				✓		✓							
Middlebury St	Prairie St to Goshen Ave	Added Travel Lanes			✓	✓	✓				✓		✓				✓			
Northside Connector	Adamsville Rd to Johnson St	New Road Construction		✓	✓	✓	✓				✓		✓						✓	
Prairie St	Mishawaka Rd to Lusher Ave	Added Travel Lanes			✓								✓						✓	
Sunny Dr	Northpointe Blvd to CR 4	New Road Construction			✓	✓	✓				✓									
Toledo Rd	Goshen Ave to Indiana Ave	Intersection Improvement		✓	✓	✓	✓				✓		✓							
College Ave	US 33 to Century Dr	Center Turn Lanes		✓	✓	✓	✓				✓		✓							
CR 142	CR 17 to CR 15	Added Travel Lanes				✓							✓							
US 33	Fairfield Ave to Plymouth Ave	Auxiliary Lanes		✓	✓	✓	✓				✓									
CR 40	Dierdorff Rd to US 33	Center Turn Lanes			✓		✓				✓									
Waterford Mills Pkwy	CR 40 to SR 15	New Road Construction	✓	✓	✓															
Wilden Ave	Current Termini to Middlebury St	New Road Construction				✓	✓		✓	✓	✓	✓								

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
CR 16	SR 13 to County Line Rd	Horse and Buggy Lanes			✓	✓	✓				✓									
CR 101	Market St to CR 52	Road Recon-struction			✓		✓				✓									
CR 150	SR 19 to CR 3	New Road Construction			✓								✓							
Maple Ln	CR 42 to Wabash Ave	Center Turn Lanes			✓								✓							
Orchard Park Dr	Current Termini to SR 19	New Road Construction			✓	✓					✓		✓							
Kosciusko County																				
Armstrong Rd	CR 200 E	Intersection Improvement			✓															
County Farm Rd	SR 14 to CR 700 S	Added Capacity		✓	✓	✓	✓				✓	✓	✓						✓	
CR 1200 N	Syracuse Webster Rd/N 500 E	Intersection Improvement			✓	✓	✓				✓		✓							
CR 1300 N	Norfolk Southern Railroad (New Crossing)	Grade Separation				✓							✓							
CR 1300 N	SR 15 to Old SR 15	New Road Construction				✓							✓							
CR 200 E / N 100 E	E 200 N to Armstrong Rd	Added Capacity		✓	✓	✓	✓				✓		✓							
CR 225 S	CR 200 S to Packerton Rd	Added Capacity		✓	✓	✓					✓	✓	✓						✓	
CR 350 W	Old US 30 to US 30	Added Capacity		✓	✓	✓	✓				✓		✓							
CR E 450 N	CR N 100 E	Intersection Improvement				✓							✓						✓	
CR 800 W	US 30 to SR 19 / W 900 N	Added Travel Lanes				✓							✓						✓	

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
CR 700 S	SR 19 to County Farm Rd	Added Travel Lanes		✓	✓	✓	✓				✓	✓	✓							
CR 900 N	CR 500 S to SR 25	Added Travel Lanes				✓					✓		✓							
N Fox Farm Rd	CR 150 W to US 30	Added Capacity		✓	✓	✓	✓				✓	✓	✓					✓	✓	
New Road (CR 350 E)	Pierceton Rd to Wooster Rd	New Road Construction		✓	✓						✓	✓	✓							
New Road (CR 850 W)	W 1350 N to Indiana Ave	New Road Construction		✓	✓															
Old US 30	CR 350 W	Intersection Improvement		✓	✓	✓	✓				✓		✓							
Old US 30	N Zimmer Rd to CR 350 W	Added Capacity		✓	✓	✓	✓				✓		✓							
Pierceton Rd	Parckerton Rd to Market St	Added Capacity		✓	✓	✓					✓	✓	✓							
CR 1350 N	CR 700 W to CR 950 N	Road Reconstruction				✓					✓									
Wawasee Dr (CR 900 E)	Morris Rd to County Line Rd	Added Capacity		✓	✓	✓					✓		✓							
Jackson Street	W 1350 N to Current Termini	New Road Construction			✓								✓							
CR 100 E	CR 250 N to CR 300 N	Road Realignment				✓							✓						✓	
CR 100 S	SR 15 to Country Club Rd	New Road Construction		✓	✓	✓	✓				✓		✓							
CR 150 W	Lake St to US 30	Added Travel Lanes				✓							✓							
CR 300 N	Shelden Dr	Intersection Improvement		✓	✓	✓	✓				✓		✓							

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
Market St	Norfolk Southern	Grade Separation		✓	✓	✓					✓		✓						✓	
Parker St	Center St	Intersection Improvement		✓	✓	✓					✓		✓							
Sheridan St	Parker St to Harrison	New Road Construction		✓	✓	✓	✓				✓		✓							
Zimmer Rd	SR 25 to Old US 30	Added Capacity		✓	✓	✓	✓				✓		✓						✓	
Zimmer Rd	Winona Ave	Intersection Improvement		✓	✓	✓					✓		✓						✓	
Columbus Dr	Pierceton Rd to Chestnut St	New Road Construction		✓	✓	✓	✓				✓		✓							
Kings Hwy/ Winona Ave	Parke Ave/ Argonne Rd to	Intersection Improvement		✓	✓	✓					✓		✓							
Packerton Rd	CR 225 S to Pierceton Rd	Added Travel Lanes				✓					✓		✓							
Pierceton Rd	CR 250 E	Safety Improvement		✓	✓	✓					✓	✓	✓							
Pierceton Rd	Packerton Rd	Intersection Improvement		✓	✓	✓					✓		✓							
Wooster Rd	Kings Hwy	Intersection Improvement				✓							✓							
Wooster Rd	CR 250 E	Intersection Improvement				✓							✓							
Marshall County																				
Lincoln Hwy	Pioneer Dr	Intersection Improvement			✓	✓					✓		✓							
Michigan Rd	12 B Rd to US 31	Intersection Improvement			✓	✓	✓				✓		✓							
Veterans Pkwy	Michigan Rd to Pioneer Dr	New Road Construction			✓	✓	✓				✓		✓							
Main St	Davis St	Intersection Improvement			✓	✓	✓				✓		✓							

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
Hoham Dr	Oak Dr to Michigan Rd	Center Turn Lanes				✓					✓		✓							
Jim Neu Dr	Western Ave to Oak Dr	New Road Construction			✓	✓	✓				✓		✓							
Richter Rd	Jefferson St to Baker St	Road Recon-struction		✓	✓	✓	✓				✓		✓							
Plymouth Municipal Airport		Runway Extension				✓					✓		✓							
Oak Rd	US 30 to Hoham Dr	Added Travel Lanes				✓					✓		✓							
Suter Rd	Lincoln Hwy to 9A Rd	New Road Construction		✓	✓	✓					✓		✓							
St. Joseph County																				
Cleveland Rd	Beech Rd	Intersection Improvement			✓	✓	✓													
Douglas Rd/Cleveland Rd Connector	Bittersweet Rd to Beech Rd	New Road Construction			✓	✓	✓				✓						✓			
Douglas Rd	Canadian National	Grade Separation			✓	✓	✓				✓		✓							
Douglas Rd	Bittersweet Rd	Intersection Improvement				✓	✓				✓									
Douglas Rd	Ironwood Rd	Intersection Improvement			✓	✓	✓				✓	✓	✓							
Douglas Rd	Ivy Rd to SR 23	Added Travel Lanes			✓	✓	✓				✓	✓	✓							
Edison Rd	Similax Rd	Intersection Improvement			✓															
Edison Rd	Timothy Rd to Walnut Rd	New Road Construction			✓	✓	✓						✓				✓			
Edison Rd	Walnut Rd	Intersection Improvement			✓	✓	✓										✓			
Filmore Rd	Larrison Rd	Intersection Improvement			✓	✓	✓						✓							

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
Harrison Rd	Strawberry Rd to Lemon Rd	New Road Construction			✓	✓	✓				✓		✓							
Larrison Rd	Filmore Rd	New Road Construction			✓	✓	✓				✓		✓							
Pierce Rd	Miami Rd to SR 331	New Road Construction			✓	✓					✓		✓							
Snowberry Rd	Hamilton Trl to Hamilton Trl	New Road Construction			✓	✓	✓				✓	✓	✓							
Twelfth St	SR 331 to Union St	Added Capacity		✓	✓	✓	✓					✓	✓							
Beacon Pkwy Connector	Cleveland Rd to Beacon Pkwy	New Road Construction		✓	✓	✓							✓							
Catalpa Ave	Filbert Rd to Catalpa Ave	New Road Construction			✓	✓							✓							
Division St	Catalpa Ave to Current Terminus	New Road Construction			✓	✓							✓							
Elwood Ave	SR 331	Intersection Improvement		✓	✓	✓	✓					✓	✓							
Fir Rd	McKinley Ave to 1-80/90	Center Turn Lanes			✓	✓	✓				✓		✓							
Fulmer Rd	Current Terminus to Clover Rd	New Road Construction		✓	✓							✓	✓							
Grape Rd	Douglas Rd	Intersection Improvement																		
Hickory Rd	Helper St to SR 23	New Road		✓	✓	✓	✓				✓		✓							
Jefferson Blvd	Byrkit St to Cedar St	Safety Improvement		✓	✓	✓	✓				✓		✓							
McKinley Ave	Fir Rd to Division St	Added Capacity		✓	✓	✓							✓							
Twelfth St	Campbell St to Dodge St	Added Travel Lanes		✓	✓	✓	✓					✓	✓							

Table E-2: Water Resources & Mining and Mineral Resources

Road	Limits	Type	Canal Routes - Historic	NWI Wetland Lines	NWI Wetland Polygons	Rivers & Streams	IDEM 303d Rivers and Streams	Cave Entrance Density	Karst Springs	Canal Structures - Historic	Floodplain-DFIRM	NWI Wetland Points	Lakes	IDEM 303d Listed Lakes	Sinkhole Areas	Sinking-Stream Basins	Petroleum Well	Mines-Surface	Petroleum Field	Mines-Underground
Union St	Irelto Dr to Sixth St	Added Capacity		✓	✓	✓	✓				✓	✓	✓				✓			
Veterans Pkwy	Cul-de-Sac to Cleveland Rd	New Road Construction			✓	✓	✓				✓						✓			
Veterans Pkwy	Cul-de-Sac to Douglas Rd	New Road Construction			✓	✓	✓				✓		✓							
Bendix Dr	Bertrand Rd to Lathrop Rd	Road Diet		✓	✓							✓	✓							
Bertrand Rd	Meade St to Bendix Dr	Safety Improvement			✓							✓	✓							
Colfax Rd	SR 23 to Colfax Bridge	Center Turn Lanes			✓	✓	✓				✓		✓				✓			
Lincolnway West	Olive St	Intersection Improvement																		
Meade St	Orange Rd to Bertrto Rd	Safety Improvement			✓								✓							
Sample St	Maryflower Rd	Intersection Improvement			✓	✓														
Sample St	SR 23 to Mayflower Rd	Safety Improvement			✓	✓														
Sheridan St	Lincolnway to Progress Dr	Road Reconstruction																		

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Elkhart County																				
CR 118	Old CR 17 to CR 19	New Road Construction																		✓
CR 13	Sunnyside Ave to US 20	Added Travel Lanes					✓								✓			✓		✓
CR 15	CR 6 to CR 104	New Road Construction	✓																	✓
CR 17	CR 142 to CR 38	New Road Construction						✓												✓
CR 17	CR 46 to CR 142	New Road Construction																		
CR 17	CR 50 to CR 46	New Road Construction																		✓
CR 17	US 6 to CR 50	New Road Construction																		
CR 18	CR 13	Intersection Improvement																		
CR 20	CR 111	Intersection Improvement	✓				✓				✓									✓
CR 20	SR 15	Intersection Improvement					✓				✓									✓
CR 20	SR 19 to US 33	Added Travel Lanes	✓	✓	✓		✓							✓	✓					✓
CR 22	CR 3	Intersection Improvement					✓													
CR 24	CR 3	Intersection Improvement					✓													
CR 26	SR 15 to CR 31	New Road Construction																		✓
CR 31	CR 36 to CR 26	New Road Construction						✓												
CR 38	SR 119 to CR 17	Center Turn Lanes																		✓

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
CR 40	SR 19 to SR 119	Added Travel Lanes			✓		✓								✓					✓
CR 43	CR 1400 N to US 6	Added Capacity																		
CR 52	CR 101 to SR 19	Road Reconstruction					✓	✓							✓					✓
CR 6	Ash Rd to CR 10	Added Travel Lanes									✓				✓					✓
CR 6	CR 10 to John Weaver Parkway	Added Travel Lanes									✓									✓
Johnson St	Bristol St to SR 4	Added Travel Lanes	✓				✓				✓			✓	✓					✓
Kerryhaven Dr	Current Termini to CR 10	New Road Construction																		✓
Old SR 17	SR 18 to Love's Dr	New Road Construction																		✓
Sunnyside Dr	US 33 to CR 13	Added Travel Lanes	✓				✓								✓			✓		✓
2nd St	Harrison St to Jefferson St	One-Way to Two-Way	✓	✓	✓		✓				✓		✓	✓	✓					
3rd St	Harrison St to Jefferson St	One-Way to Two-Way	✓	✓	✓		✓				✓		✓	✓	✓					
Benham Ave	Lusher Ave to Indiana Ave	Road Reconstruction	✓				✓								✓					
Bristol St	Johnson St to Jeanwood Dr	Road Diet					✓								✓					
Bristol St	Jeanwood Dr to CR 15	Added Travel Lanes					✓								✓					
CR 6	CR 6 to Cassopolis St	Intersection Improvement					✓				✓			✓	✓					✓
Goshen Ave	Jackson Blvd to Middlebury St	Road Reconstruction	✓	✓	✓		✓			✓	✓		✓	✓	✓		✓			✓

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Hively Ave	Norfolk Southern Railroad (#510012C)	Grade Separation	✓	✓	✓		✓		✓	✓	✓			✓	✓			✓		✓
Indiana Ave	Oakland Ave	Intersection Improvement	✓		✓		✓			✓	✓			✓	✓					
Jackson Blvd	Goshen Ave	Intersection Improvement	✓	✓	✓		✓				✓			✓	✓					✓
Jackson Blvd	Goshen Ave to Riverview Ave	Road Diet	✓	✓	✓		✓				✓			✓	✓					✓
Jackson Blvd	Johnson St	Intersection Improvement	✓	✓	✓		✓			✓	✓		✓		✓					✓
Main St	Beardsley Ave	Intersection Improvement	✓	✓	✓		✓				✓	✓	✓	✓	✓					✓
Main St	Hively Ave to Lusher Ave	Road Diet	✓		✓		✓				✓			✓	✓			✓		✓
Middlebury St	Prairie St to Goshen Ave	Added Travel Lanes	✓	✓	✓		✓			✓	✓		✓	✓	✓		✓			✓
Northside Connector	Adamsville Rd to Johnson St	New Road Construction	✓				✓				✓			✓	✓					✓
Prairie St	Mishawaka Rd to Lusher Ave	Added Travel Lanes					✓							✓	✓					
Sunny Dr	Northpointe Blvd to CR 4	New Road Construction					✓			✓				✓	✓					✓
Toledo Rd	Goshen Ave to Indiana Ave	Intersection Improvement		✓			✓			✓		✓		✓						
College Ave	US 33 to Century Dr	Center Turn Lanes					✓							✓	✓					✓
CR 142	CR 17 to CR 15	Added Travel Lanes					✓	✓							✓					
US 33	Fairfield Ave to Plymouth Ave	Auxiliary Lanes																		
CR 40	Dierdorff Rd to US 33	Center Turn Lanes					✓													

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Waterford Mills Pkwy	CR 40 to SR 15	New Road Construction					✓							✓	✓					
Wilden Ave	Current Termini to Middlebury St	New Road Construction	✓		✓		✓						✓		✓					✓
CR 16	SR 13 to County Line Rd	Horse and Buggy Lanes																		
CR 101	Market St to CR 52	Road Recon-struction						✓		✓				✓	✓					✓
CR 150	SR 19 to CR 3	New Road Construction		✓			✓			✓				✓	✓					✓
Maple Ln	CR 42 to Wa-bash Ave	Center Turn Lanes		✓			✓			✓				✓	✓					✓
Orchard Park Dr	Current Termini to SR 19	New Road Construction	✓	✓	✓		✓			✓	✓		✓	✓	✓					✓
Kosciusko County																				
Armstrong Rd	CR 200 E	Intersection Improvement					✓													
County Farm Rd	SR 14 to CR 700 S	Added Capac-ity						✓												
CR 1200 N	Syracuse Webster Rd/N 500 E	Intersection Improvement					✓							✓	✓					✓
CR 1300 N	Norfolk South-ern Railroad (New Cross-ing)	Grade Separation					✓	✓												✓
CR 1300 N	SR 15 to Old SR 15	New Road Construction					✓	✓												✓
CR 200 E / N 100 E	E 200 N to Armstrong Rd	Added Capac-ity			✓		✓				✓									✓
CR 225 S	CR 200 S to Packerton Rd	Added Capac-ity																		

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
CR 350 W	Old US 30 to US 30	Added Capacity			✓									✓						
CR E 450 N	CR N 100 E	Intersection Improvement						✓			✓					✓				
CR 800 W	US 30 to SR 19 / W 900 N	Added Travel Lanes						✓			✓					✓				
CR 700 S	SR 19 to County Farm Rd	Added Travel Lanes					✓	✓							✓					
CR 900 N	CR 500 S to SR 25	Added Travel Lanes					✓	✓			✓									✓
N Fox Farm Rd	CR 150 W to US 30	Added Capacity					✓							✓	✓					✓
New Road (CR 350 E)	Pierceton Rd to Wooster Rd	New Road Construction																		
New Road (CR 850 W)	W 1350 N to Indiana Ave	New Road Construction		✓			✓				✓			✓	✓					✓
Old US 30	CR 350 W	Intersection Improvement			✓						✓			✓						
Old US 30	N Zimmer Rd to CR 350 W	Added Capacity			✓		✓				✓		✓	✓	✓					✓
Pierceton Rd	Parckerton Rd to Market St	Added Capacity	✓				✓				✓			✓	✓					✓
CR 1350 N	CR 700 W to CR 950 N	Road Reconstruction									✓									
Wawasee Dr (CR 900 E)	Morris Rd to County Line Rd	Added Capacity					✓													✓
Jackson Street	W 1350 N to Current Termini	New Road Construction					✓				✓									✓
CR 100 E	CR 250 N to CR 300 N	Road Realignment									✓									✓

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
CR 100 S	SR 15 to Country Club Rd	New Road Construction	✓				✓							✓	✓					✓
CR 150 W	Lake St to US 30	Added Travel Lanes	✓		✓		✓								✓			✓		
CR 300 N	Shelden Dr	Intersection Improvement					✓							✓	✓					✓
Market St	Norfolk Southern	Grade Separation	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓					✓
Parker St	Center St	Intersection Improvement	✓	✓			✓				✓		✓	✓	✓					✓
Sheridan St	Parker St to Harrison	New Road Construction	✓				✓							✓	✓					✓
Zimmer Rd	SR 25 to Old US 30	Added Capacity					✓				✓			✓	✓					✓
Zimmer Rd	Winona Ave	Intersection Improvement									✓			✓	✓					✓
Columbus Dr	Pierceton Rd to Chestnut St	New Road Construction			✓		✓				✓			✓	✓					✓
Kings Hwy/Winona Ave	Parke Ave/Argonne Rd to	Intersection Improvement	✓	✓			✓				✓		✓	✓	✓					✓
Packerton Rd	CR 225 S to Pierceton Rd	Added Travel Lanes																		
Pierceton Rd	CR 250 E	Safety Improvement					✓													
Pierceton Rd	Packerton Rd	Intersection Improvement																		✓
Wooster Rd	Kings Hwy	Intersection Improvement	✓		✓		✓								✓			✓		
Wooster Rd	CR 250 E	Intersection Improvement	✓		✓		✓								✓			✓		

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Marshall County																				
Lincoln Hwy	Pioneer Dr	Intersection Improvement					✓													
Michigan Rd	12 B Rd to US 31	Intersection Improvement	✓		✓		✓			✓	✓			✓	✓					✓
Veterans Pkwy	Michigan Rd to Pioneer Dr	New Road Construction					✓			✓				✓	✓					✓
Main St	Davis St	Intersection Improvement	✓		✓		✓			✓	✓			✓	✓					✓
Hoham Dr	Oak Dr to Michigan Rd	Center Turn Lanes					✓							✓	✓					
Jim Neu Dr	Western Ave to Oak Dr	New Road Construction		✓			✓			✓			✓	✓	✓					✓
Richter Rd	Jefferson St to Baker St	Road Reconstruction			✓		✓				✓			✓	✓					✓
Plymouth Municipal Airport		Runway Extension					✓							✓	✓					
Oak Rd	US 30 to Hoham Dr	Added Travel Lanes					✓								✓					
Suter Rd	Lincoln Hwy to 9A Rd	New Road Construction	✓	✓	✓		✓			✓			✓	✓	✓					✓
St. Joseph County																				
Cleveland Rd	Beech Rd	Intersection Improvement																		
Douglas Rd/ Cleveland Rd Connector	Bittersweet Rd to Beech Rd	New Road Construction																		
Douglas Rd	Canadian National	Grade Separation																		✓
Douglas Rd	Bittersweet Rd	Intersection Improvement																		

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Douglas Rd	Ironwood Rd	Intersection Improvement		✓			✓			✓			✓	✓	✓			✓		✓
Douglas Rd	Ivy Rd to SR 23	Added Travel Lanes		✓			✓			✓			✓	✓	✓			✓		✓
Edison Rd	Similax Rd	Intersection Improvement		✓			✓			✓				✓	✓					✓
Edison Rd	Timothy Rd to Walnut Rd	New Road Construction									✓									✓
Edison Rd	Walnut Rd	Intersection Improvement									✓									✓
Filmore Rd	Larrison Rd	Intersection Improvement											✓		✓			✓		
Harrison Rd	Strawberry Rd to Lemon Rd	New Road Construction																		✓
Larrison Rd	Filmore Rd	New Road Construction																		✓
Pierce Rd	Miami Rd to SR 331	New Road Construction						✓							✓					
Snowberry Rd	Hamilton Trl to Hamilton Trl	New Road Construction		✓			✓			✓			✓	✓	✓			✓		✓
Twelfth St	SR 331 to Union St	Added Capacity	✓	✓	✓		✓			✓			✓	✓	✓					✓
Beacon Pkwy Connector	Cleveland Rd to Beacon Pkwy	New Road Construction		✓	✓		✓			✓	✓		✓	✓	✓			✓		✓
Catalpa Ave	Filbert Rd to Catalpa Ave	New Road Construction					✓				✓			✓	✓					✓
Division St	Catalpa Ave to Current Terminus	New Road Construction		✓			✓						✓	✓	✓					✓
Elwood Ave	SR 331	Intersection Improvement	✓	✓	✓		✓			✓			✓	✓	✓					✓
Fir Rd	McKinley Ave to 1-80/90	Center Turn Lanes		✓			✓							✓	✓			✓		✓

Table E-3: Hazardous Materials

Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Fulmer Rd	Current Terminus to Clover Rd	New Road Construction	✓	✓	✓		✓			✓			✓	✓	✓					✓
Grape Rd	Douglas Rd	Intersection Improvement																		
Hickory Rd	Helper St to SR 23	New Road	✓				✓					✓	✓							✓
Jefferson Blvd	Byrkit St to Cedar St	Safety Improvement			✓		✓				✓		✓	✓	✓			✓		✓
McKinley Ave	Fir Rd to Division St	Added Capacity		✓	✓		✓			✓	✓		✓	✓	✓			✓		✓
Twelfth St	Campbell St to Dodge St	Added Travel Lanes	✓	✓	✓		✓			✓			✓	✓	✓					✓
Union St	Irelto Dr to Sixth St	Added Capacity	✓		✓		✓			✓	✓		✓	✓	✓					✓
Veterans Pkwy	Cul-de-Sac to Cleveland Rd	New Road Construction																		
Veterans Pkwy	Cul-de-Sac to Douglas Rd	New Road Construction																		
Bendix Dr	Bertrand Rd to Lathrop Rd	Road Diet	✓	✓	✓		✓			✓			✓	✓	✓					✓
Bertrand Rd	Meade St to Bendix Dr	Safety Improvement	✓		✓		✓			✓			✓	✓	✓					✓
Colfax Rd	SR 23 to Colfax Bridge	Center Turn Lanes	✓	✓		✓	✓			✓			✓	✓	✓					✓
Jefferson	Logan to Ironwood	Center Turn Lanes		✓			✓			✓				✓	✓					
Lincolnway West	Olive St	Intersection Improvement	✓	✓			✓			✓				✓	✓					
Meade St	Orange Rd to Bertrto Rd	Safety Improvement	✓		✓		✓			✓			✓	✓	✓					✓

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Road	Limits	Type	Brownfield Sites	State Cleanup Sites	Voluntary Remediation Program	Manufactured Gas Plant Sites	Underground Storage Tanks	Confined Feeding Operations	Tire Waste Sites	Waste Treatment, Storage, and Disposal	NPDES Pipe Locations	Superfund Sites	Institutional Control Sites	Industrial Waste Sites	Leaking Underground Storage Tanks	Septage Waste Sites	Infectious/Medical Waste Sites	Solid Waste Landfills	Waste Transfer Stations	NPDES Facilities
Sample St	Maryflower Rd	Intersection Improvement											✓		✓					✓
Sample St	SR 23 to Maryflower Rd	Safety Improvement											✓		✓					✓
Sheridan St	Lincolnway to Progress Dr	Road Reconstruction					✓			✓			✓	✓	✓					✓

