

**Air Quality Conformity Analysis  
for  
Cass County, MI Conformity Area**

**Final**

**June 26, 2019**

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## 1.0 Conformity

### 1.1 Introduction

Transportation conformity provisions of the Clean Air Act Amendments require metropolitan planning organizations (MPOs) make a determination that the Long-Range Transportation Plan (LRTP), Transportation Improvement Program (TIP), and projects conform to the State Implementation Plan (SIP), and that regional emissions will not negatively impact the region's ability to meet the National Ambient Air Quality Standards (NAAQS).

Conformity to the SIP means that the region's LRTPs and TIPs 1) will not cause any new violations of the NAAQS; 2) will not increase the frequency or severity of existing violation; and 3) will not delay attaining the NAAQS. A demonstration is conducted by comparing emissions estimates generated from implementation of LRTPs and TIPs for analysis years to the motor vehicle emissions budgets (MVEBs) contained in the maintenance SIP.

The purpose of this report is to document the process and findings of the transportation conformity analysis for the conformity area.

### 1.2 Conformity Area and Conformity

Cass County is the conformity area. Within the boundary is part of the Niles-Buchanan-Cass Area Transportation Study (NATS) MPO, as well as the rural projects contained in the State Transportation Improvement Program (STIP).

Findings of the transportation conformity analysis are for projects within Cass County contained in:

- NATS 2045 LRTP,
- NATS 2017-20 TIP, and
- STIP 2017-20.

### 1.3 Conformity Finding

The staff of the Southwest Michigan Planning Commission (SWMPC) finds that the LRTPs and TIP conform to the SIP for the 1997 ozone standard based on the results of this conformity analysis. This report makes the determination that the region's transportation plan and programs satisfy all applicable criteria and procedures in the conformity regulations.

This conformity analysis document was subject to a public comment period from May 21 through June 21, 2019.

The MPO policy committee made a formal conformity determination, through a resolution, at the NATS Policy Committee on June 25, 2019.

#### 1.4 Results of Conformity Analysis

Conformity is demonstrated when the analysis-year emissions are equal to or less than the SIP budget. For the 1997 ozone standard, as shown in Table 1, the emissions results for the analysis years show that the volatile organic compounds (VOC) and nitrogen oxides (NOx) emissions are lower than the SIP budgets; thus, conformity for the ozone standard is demonstrated.

**Table 1: Results of 1997 Ozone Standard Conformity Analysis**

Analysis Year	Emissions (tons/day)	
	VOC	NOx
SIP Budget	2.76	3.40
2020	0.92	1.03
2030	0.51	0.41
2040	0.34	0.22
2045	0.32	0.21

## 2.0 Background and Attainment Status

### 2.1 Background

The Federal Clean Air Act Amendments of 1990 (CAAA) established rules to improve the air, protect public health, and protect the environment. The act requires the U.S. Environmental Protection Agency (EPA) to set, review, and revise the National Ambient Air Quality Standards (NAAQS) periodically.

The Clean Air Act links together air quality planning and transportation planning through the transportation conformity process. Air quality planning is controlled by Michigan's SIP, which includes the state's plans for attaining or maintaining the NAAQS. The main transportation planning tools are the metropolitan LRTP and the metropolitan TIP. Transportation conformity ensures that federal funding and approval are given to highway and transit activities that are consistent with the SIP and that these activities will not affect Michigan's ability to achieve the NAAQS.

Transportation activities that are subject to conformity are LRTPs, TIPs, and all non-exempt federal projects that receive Federal Highway Administration (FHWA) or Federal Transit Administration (FTA) funding or approval. The conformity process ensures emissions from LRTP, TIP, or projects are within acceptable levels specified within the SIP and meet the goals of the SIP.

Transportation conformity only applies to on-road sources and transportation-related pollutants: ozone, particulate matter (particulate sizes 2.5 and 10), nitrogen dioxide, and carbon monoxide.

In addition to emissions that are directly emitted, regulations specifically require certain precursor pollutants to be addressed. Precursor pollutants are those pollutants that contribute to the formation of other pollutants. For example, ozone is not directly emitted but created when NO<sub>x</sub> and VOC react with sunlight.

When the EPA revises a NAAQS, all areas of the country are evaluated to determine if monitored levels of the pollutant are at or below the standard; these areas are classified as attainment. If the pollutant level is above the standard, these areas are classified as nonattainment. MPOs in areas classified as nonattainment and maintenance must conduct conformity analysis on their transportation programs.

### 2.2 Attainment Status

On April 15, 2004, the EPA issued final designations of areas not attaining the 1997 ozone NAAQS (also referred to as 1997 ozone standard). Cass County was designated a nonattainment area.

On May 16, 2007, the EPA redesignated the area attainment/maintenance, approving and finding adequate motor vehicle emissions budgets for VOC and NOx for the year 2018. Placing the area into maintenance, this requires conformity emission to be compared to the MVEBs contained in the SIP, referred to as SIP budgets.

On July 20, 2012, the EPA designated all of Michigan as attainment for the strengthened 2008 ozone NAAQS.

On July 20, 2013, the EPA partially revoked the 1997 ozone standard, revoking the requirement to do transportation conformity for areas that were in maintenance. On April 6, 2015, the EPA completely revoked the 1997 ozone standard, which resulted in removal of all transportation conformity requirements.

On April 23, 2018, the FHWA, complying with the court's decision in *South Coast Air Quality Management District v. EPA*, started requiring areas in the country that were maintenance for the 1997 ozone standard and attainment for the 2008 ozone standard to conduct conformity. Later, this was amended to give MPOs until Feb. 16, 2019, to make conformity determinations.

On Aug. 3, 2018, the EPA designated Cass County as attainment for the strengthened 2015 ozone NAAQS (also referred to as 2015 ozone standard).

### 2.3 SIP Budgets

The Cass County conformity area has existing maintenance budgets from the 1997 ozone standard maintenance SIP. Regulations require use of these budgets to test against for the ozone standard. Emissions generated must be equal to or less than the SIP budgets, also referred to as the MVEB. MVEB is the portion of the total allowable emissions allocated to highway and transit vehicle use in the maintenance or nonattainment area. By showing emissions are below the MVEB, the LRTPs and TIP are conforming to the SIP.

## 3.0 Interagency Consultation

Consultation with federal, state, and local transportation authorities is conducted through the Michigan Transportation Conformity Interagency Workgroup (MITC-IAWG). Issues discussed include evaluating and choosing emission models and methods, determining regionally significant project definition, procedures for future MITC-IAWG meetings, and rules for reviewing projects.

A MITC-IAWG was held on March 27, 2019; individuals attended in person or by conference call. A summary of the meeting is in Appendix A. Copies of this conformity analysis were sent to each MITC-IAWG member to review and comment.

## 4.0 Public Participation

The Public Participation Plan adopted by the MPO Policy Committee establishes the procedures by which the MPOs reach affected public agencies and the public. The same procedures were followed for this document, ensuring the public has an opportunity to review and comment before the MPO makes a determination.

A formal public comment period for the draft Air Quality Conformity Analysis was held from May 21 through June 21, 2019. Public comments received and responses to those comments are in Appendix B. No comments were received.

## 5.0 Projects Evaluated for Conformity Analysis

Projects for the new 2045 LRTP and 2017-2020 TIP were evaluated for inclusion in the analysis. Projects classified as non-exempt must be analyzed. Projects with exempt classification that can be modeled with the travel demand model were modeled. Appendix C includes a list of the projects evaluated for, and included, in this analysis. All projects evaluated since the last conformity analysis have been deemed exempt; those project lists can be found attached to meeting summaries of previous MITC-IAWGs.

## 6.0 Transportation Modeling

### 6.1 Travel Demand Forecasting Models

Nonattainment areas are established independent of MPO boundaries. The Cass County conformity area is covered by two travel demand forecasting models: the South Bend/Niles regional model and the statewide model covering the rural areas. Each of these models were developed in TransCAD modeling software. The travel demand model for the NATS area was developed in 2018 using the latest demographic and employment data available to generate estimates of travel, vehicle miles of travel (VMT), and speeds. The statewide model used the latest socioeconomic data available at the time. Detailed documentation on each of these models is contained in separate documents available upon request.

#### 6.1.2 Niles/South Bend Regional Model

This model is a regional model developed by a consultant and covers the NATS MPO and the Michiana Area Council of Governments (MACOG) MPO areas. The model reflects the interconnected travel patterns experienced in the Niles, Michigan, and South Bend, Indiana, region. Only the part of the model encompassing Cass County was used for this analysis. The model is a hybrid, blending a traditional four-step model with an activity-based model, with a base year of 2015 and horizon year of 2045. Census data was used to develop base population and household data. Employment data is developed from a private business database verified with local knowledge. Future data is based on the Regional Economic



Models, Inc. (REMI) economic and demographic forecasts. The University of Michigan and MDOT jointly develop county-specific forecast data.

### 6.1.3 Statewide Model

The statewide model developed by MDOT covers all counties in the state and was used for the non-urban parts of Cass County (those not covered by the NATS model). The model is a standard three-step trip generation, trip distribution, and assignment model, with a base year 2010 and a 2045 future year. Trip assignment uses an equilibrium method and was validated against traffic counts using MDOT standards and those suggested by FHWA.

### 6.1.4 Coding Travel Demand Model Links for NFC by Urban and Rural

For emission modeling, the National Functional Classification (NFC) system is used to determine the function of roads; however, NFCs do not distinguish roads by urban and rural. The emission model, Motor Vehicle Emission Simulator (MOVES), requires roads to be classified as urban or rural. MOVES requires roads to be grouped into one of four road types: rural restricted, rural unrestricted, urban restricted, and urban unrestricted. To determine a road's urban or rural status, roads within the adjusted census urban boundary were considered urban and those outside as rural. NFCs designated as interstate and other freeways are considered restricted while all others are considered unrestricted. The Michigan Geographic Framework (GIS digital base map) was used to combine NFC with adjusted census urban boundary to generate MOVES road types for the network.

### 6.1.5 Highway Performance Monitoring System (HPMS)

The EPA and FHWA endorse HPMS as the source of VMT estimates. The travel demand modeling VMT is aggregated by NFC road types within a county, then each NFC road type is normalized to HPMS data for the base year/validation year of the travel demand model. The normalization factors were applied to all analysis years.

## 6.2 Analysis Years

Analysis years were determined by the MITC-IAWG. Projects requiring modeling are grouped into an analysis year based on the projects open-to-traffic date. Emissions are generated for each analysis year.

Analysis Year	Reason
2020	Interim year (so analysis years not more than 10 years apart)
2030	Interim year (so analysis years not more than 10 years apart)
2040	Interim year (so analysis years not more than 10 years apart)
2045	Last year of NATS long-range transportation plan

## 7.0 Latest Planning Assumptions

### 7.1 Demographic Data

The most current and future assumptions developed or approved by the MPO were used in the development of the travel demand models. Table 2 shows base and future year population and employment by county from the travel demand model.

**Table 2: Base and Future Year Population and Employment by County**

County	Population		Employment	
	2015	2045	2015	2045
Cass County	55,111	58,452	15,081	15,143

### 7.2 Vehicle Miles of Travel

Vehicle miles of travel (VMT) is one measure of travel. Current and future levels of travel and growth rates are provided in Table 3.

**Table 3: Vehicle Miles of Travel and Growth Rate by County**

	Analysis year				
	Base Year 2015	2020	2030	2040	2045
Cass County					
VMT	1,267,133	1,286,344	1,285,334	1,284,260	1,289,863
Growth Rate	1.000	1.015	1.014	1.014	1.018

### 7.3 Vehicle Hours of Travel

Vehicle hours of travel (VHT) is an indicator of congestion. Current and future levels are provided in Table 4.

**Table 4: Vehicle Hours of Travel by County**

	Analysis year				
	Base Year 2015	2020	2030	2040	2045
Cass County					
VHT	26,771	27,190	27,161	27,137	27,238

## 7.4 Transportation Control Measures

There are no transportation control measures (TCMs) identified in the applicable state implementation plan. Thus, no measures are included at this time.

## 8.0 Emission Modeling

### 8.1 MOVES Specifications

The EPA's MOVES version MOVES2014b was used to generate emissions. Ozone is formed in the presence of heat and sunlight, so the highest ozone concentrations are monitored during the summer. This conformity analysis involves generating a summer (July) weekday emissions to simulate the meteorology of a high-ozone summer day.

### 8.2 Road Type Distribution

HPMS data is used to create MOVES road-type distribution fractions. County-level HPMS passenger data is used for motorcycle and passenger vehicles, and commercial HPMS is used for trucks and buses. HPMS VMT is aggregated to MOVES road types then converted to a fraction, generating a road-type distribution.

### 8.3 Average Speed

Speed distributions are created using a method developed by EPA for taking a single average speed and creating a distribution. The method generates an average speed fraction by MOVES road type, by day, by hour, and speed bin from speeds generated by the travel demand forecasting models. The same distribution is used for each vehicle type.

### 8.4 Ramp Fraction

The default VHT ramp fraction of 8 percent was used.

### 8.5 Average Weekday VMT to Annual VMT

Monthly VMT adjustment factors were obtained from MDOT's data collection area. The EPA's AADVT Converter-Tool MOVES 2014 was used to convert annual average daily VMT to annual VMT, monthly VMT fractions, and daily VMT fractions. Hourly fractions use MOVES default data. For motorcycles, the monthly fractions use MOVES defaults since local data is limited. Future analysis years utilize the same fractions.

### 8.6 Vehicle Population

The source of the vehicle population is the Michigan Secretary of State (SOS) vehicle registration database of Oct. 1, 2015. The database was supplemented with school bus data from the Michigan Department of Education and MDOT public transit bus data. The EPA's default distributions were used to determine intercity bus, refuse truck, single-unit truck,

and combination truck categories. The SOS data must be converted to MOVES source (vehicle) types. Table 5 shows how vehicle body style combined with plate type and company code is used to obtain MOVES vehicle types.

Future year vehicle population is based on growth in VMT from base year to analysis year. The growth rate is applied to all MOVES vehicle types. Table 3 shows the VMT for each analysis year and growth rate.

## 8.7 Vehicle Age Distribution

MOVES requires vehicle age as one of the local data inputs. The Michigan SOS vehicle registration database of Oct. 1, 2015 was the source of vehicle ages. Vehicle are assigned to an age group, from 0 to 30-plus, based on model year indicated in the SOS database, with 0 being the newest vehicles (2015 or newer) and each year is its own group until vehicles are 30 years and older, which are aggregated into the 30-plus group. The SOS database is sorted by MOVES vehicle types and age. For intercity buses, refuse trucks, single-unit trucks, and combination trucks, the EPA's default age distribution are used to calculate splits in population because of limited numbers. Base-year age distribution fractions were used for all future years.

## 8.8 Other Local Data

The MOVES model allows input for other types of local data, if available. This conformity demonstration used default meteorology data since the budgets were developed using default data; thus, analysis should also. Lacking local data, defaults were used for hoteling (truck parking) and starts. The default fuel data is correct for Michigan.

## 9.0 Conclusion

Conformity has a two-step approval process. The MPOs must make a formal conformity determination through a resolution that the findings of this conformity analysis conform to the SIP; thus, emissions are at or below the budgets found in the SIP. Then FHWA, jointly with the FTA, after consultation with the EPA, issues a letter of concurrence with the determination.

The conformity analysis described here and conducted by MDOT, with support of the SWMPC, concludes that the NATS 2045 LRTP and 2017-20 TIP, and the rural projects, meet all applicable requirements for conformity for the 1997 ozone standards; thus, it is recommended for approval by FHWA.

**Table 5: MOVES Source Types from SOS Body Style, Plate Type, and Company Code**

MOVES Source Type	SOS Body Style, Plate Type, and Company Code
11 – Motorcycles	Motorcycles
21 – Passenger Cars	Two-Door Four-Door Convertible Roadster Low-Speed
31 – Passenger Trucks	Station Wagon Pickup Van Hearse with Plate Type, Personal Ambulance with Plate Type, Personal Panel Van with Plate Type, Personal
32 – Light Commercial Trucks	Pickup Commercial or Company Van Commercial or Company Hearse Commercial or Company Ambulance Commercial or Company Panel Van Commercial or Company Utility Truck Wrecker
40 – Buses (MOVES: 41*, 42, 43)	Bus; Supplemented with Other Data Sources
50 – Single-Unit Trucks* (MOVES: 51, 52, 53)	Dump Truck Mixer Truck Stake Truck
54 – Motorhomes	Motorhome
60 – Combination Trucks* (MOVES: 61, 62)	Tractor Trailer Tanker

\* The EPA default age distribution is applied to calculate individual MOVES Source Type categories.

## Appendix A: Meeting Summary of the Interagency Workgroups

### Summary of Meeting

Michigan Transportation Conformity Interagency Workgroup (MITC- IAWG)

**Berrien County Nonattainment Area**

**Cass County Conformity Area**

for

**NATS 2045 LRTP Projects**

3 – 4:00 p.m. (EDT), Wednesday, March 27, 2019

TSD 3rd floor, Van Wagoner Transportation Building, Lansing, MI

**Name**

**Agency**

**In attendance:**

Andy Pickard	Federal Highway Administration (FHWA)
Michael Leslie	US Environmental Protection Agency (EPA)
Susan Weber	Federal Transit Administration (FTA)
Donna Wittl	Michigan Department of Transportation (MDOT)
Brandon Kovnat	Southwest Michigan Planning Commission (SWMPC) representing TwinCATS and NATS MPOs
Jason Latham	Berrien County Road Department (BCRD)
Ryan Gladding	MDOT
Amy Lipset	MDOT
Jim Sturdevant	MDOT
Brad Sharlow	MDOT
Katie Beck	MDOT
Brian Sanada	MDOT
<b>Absent:</b>	
Breanna Bukowski	Michigan Department of Environmental Quality (MDEQ)

Attendance at the meeting was in person or teleconferencing with web linking.

MITC-IAWG for two areas:

- 1) Berrien County for 1997 and 2015 ozone standard nonattainment area
- 2) Cass County for 1997 ozone standard conformity area

As part of this meeting, the MITC-IAWG considered projects for the NATS new 2045 long-range transportation plan (LTRP). Projects were pulled from JobNet for all years covering the LTRP. The NATS MPO area is in both Berrien and Cass counties; so the new 2045 LRTP projects need to be evaluated for their impacts on each of the existing conformity analyses.

The polices for reviewing projects in the Berrien County nonattainment area and Cass County conformity area were sent to the MITC-IAWG before the meeting.

A summary for each conformity area is provided below. This meeting summary will be used for both conformity areas.

During the meeting, clarification was provided on why projects with the same project number and phase would be duplicated in the list. For road projects that have more than one “funding source,” the project can be listed more than once depending on how it is pulled from JobNet. Note: after the meeting it was further clarified that transit projects will have duplicate project numbers if the “scope codes” are different. Scope codes are included in the primary work type description.

### **The Berrien County Nonattainment Area**

The group discussed projects. The US-12/M-51 interchange redesign was discussed and deemed exempt. The question was asked why projects with a Fiscal Year (FY) of 2024 were included in project lists? The answer was because part of this meeting is to review projects for NATS 2045 LRTP, so projects in JobNet with a FY up to the LRTP horizon year were pulled.

The previous conformity analysis for the Berrien County nonattainment area had a horizon year of 2045, which is the last year of the TwinCATS LRTP. The NATS travel demand model developed for the NATS 2045 LRTP was used for this previous conformity analysis. The MITC-IAWG evaluated projects for the NATS 2045 LRTP. These projects are the same as those for the new 2020-2023 Transportation Improvement Program (TIP); however, they are being evaluated as LRTP projects. All the projects were determined to be exempt. All new TwinCATS projects were determined to be exempt or have not changed and were modeled as part of the previous conformity analysis. There were no STIP projects that had not been previously evaluated or part of the previous conformity analysis.

Since all projects were exempt or previously modeled, the previous conformity analysis determination of Feb. 13, 2019, is still applicable. No new conformity analysis is required. See projects in Berrien County attached.

### **The Cass County Conformity Area**

The group discussed that removal of trees; while it might have an environmental impact, those effects are not part of this analysis. This analysis is for regional conformity dealing with on-road sources only. The MITC-IAWG evaluated projects for the NATS 2045 LRTP in Cass County. These projects are the same as those for the NATS new 2020-2023 TIP; however, these projects are being evaluated as LRTP projects. All projects were determined to be exempt. There were no new STIP projects that had not been previously evaluated or part of the previous conformity analysis.

Projects were also reviewed that were part of the NATS TIP, but the county was indicated as Kalamazoo or St. Joseph because part of these projects are within the NATS MPO; all were considered exempt.

A new conformity analysis is required for the Cass County conformity area. Even though all projects are exempt, a new analysis is needed to extend the horizon year to the last year of the NATS LRTP. Analysis years will be 2020, 2030, 2040, and 2045. See projects in Cass County attached. Also attached are projects listed in NATS 2020-23 TIP but have county indicated as Kalamazoo or St. Joseph. These projects were not required to be evaluated, however, to ensure all potential LRTP projects were evaluated these were included.



## Appendix B: Public Comments and Responses

No comments were received.

## Appendix C: Projects Evaluated for Conformity Analysis

The list of projects begins on the following page.

Berrien County  
Niles-Buchanan-Cass Area Transportation Study (NATS) LRTP Projects

Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2023	Trunkline	202003	NATS	Berrien	MDOT	M-51	Chestnut Lane to M-60BR	3.543	Reconstruction	Interchange reconstruction and asphalt resurfacing	exempt	Remove US-12 bridges over M-51. Replace US-12 at M-51 grade separated interchange with signalized intersection and indirect left turns. Reconstruct US-12 from 1000 feet west of 3rd Street to approximately 2000 feet east of M-51. Reconfigure existing US-12 and 3rd Street intersection from signalized intersection with direct left turns to signalized intersection with indirect left turns. M-51 milling down to concrete, HMA repair of existing concrete, and two course HMA resurfacing. Isolated sidewalk and drainage improvements.	CON	21281000	4719000	0	26000000	NH
2019	Local	130684	NATS	Berrien	Berrien County	Main St	City limits to 400 feet North of Reed	1.204	Road Rehabilitation	2" HMA overlay	exempt		CON	152993	0	42293	195286	STU
2019	Local	130775	NATS	Berrien	Berrien County	Bertrand Rd	Portage to Copp	1.514	Road Rehabilitation	2" HMA overlay and gravel shoulders	exempt		CON	191000	0	217000	408000	STU
2020	Local	130684	NATS	Berrien	Berrien County	Main St	City limits to 400 feet North of Reed	1.204	Road Rehabilitation	2" HMA overlay	exempt		CON	37732			37732	STU
2020	Local	130769	NATS	Berrien	Berrien County	3rd St	US-12 to Fulkerson Road	1.229	Road Rehabilitation	2" HMA overlay with gravel shoulders	exempt		CON	231800	0	51401	283201	STU
2020	Local	202425	NATS	Berrien	Niles	Lake St	Lake Street over Amtrak RR, Str# 1059, City of Niles	0	Bridge CPM	Miscellaneous Bridge Capital Preventative Maintenance	exempt		CON	555200	104100	34700	694000	BHT
2021	Local	206326	NATS	Berrien	Berrien County	Portage Rd	Briar Road to US - 12	1.456	Road Capital Preventive Maintenance	HMA overlay with 3 foot wide paved shoulders	exempt		CON	300750	0	179250	480000	STU
2021	Local	207718	NATS	Berrien	Berrien County	Walton Road	Walton Road over St. Joseph River, Str# 994, Berrien County	0	Bridge CPM	Miscellaneous Bridge Capital Preventative Maintenance	exempt		CON	456500	0	456500	913000	BHT
2022	Local	206392	NATS	Berrien	Niles	N 13th St	Sycamore St. to Lake St.	0.739	Road Capital Preventive Maintenance	Mill 2" and resurface with HMA.	exempt		CON	357381	0	79248	436629	STU
2023	Local	206394	NATS	Berrien	Buchanan	West Front Street	Red Bud Trail to Oak Street	0.105	Reconstruction	Reconstruction	exempt		CON	300000	0	260747	560747	STU
2023	Local	206395	NATS	Berrien	Berrien County	E Bertrand Rd	M-51 East to County Line	1.286	Road Capital Preventive Maintenance	HMA overlay with 3 foot wide paved shoulders	exempt		CON	304000	0	236000	540000	STU
2023	Local	206618	NATS	Berrien	Buchanan	W Front St	Front and Oak Street Intersection	0.204	Traffic Safety	Replace Traffic Signal	exempt		CON	287341	0	81848	369189	CM
2019	Multi-Modal	206328	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	1110-Bus Rolling Stock	One bus	exempt		NI	56058	14015	0	70073	5339
2019	Multi-Modal	207742	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Areawide	0	SP1801-preventative maintenance	Preventative Maintenance	exempt		NI	132000	33000	0	165000	5307
2019	Multi-Modal	207097	NATS	Berrien	Buchanan Dial-A-Ride	Red Bud Trl	Areawide/City of Buchanan	0	3000-Operating Assistance	Operating assistance.	exempt		NI	24415	24415	0	48830	5311
2019	Multi-Modal	207739	NATS	Berrien	Niles Dial-A-Ride	Transit Operating	Areawide	0	SP05-Local Bus Operating	Operating Expenses	exempt		NI	159000	139000	93000	391000	5307
2020	Multi-Modal	206688	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride Service Area	0	SP1408-maintenance equipment (hoists, tools, etc.)	Maintenance Equipment in FY 2020 using 5307 funds	exempt		NI	119340	29835	0	149175	5307
2020	Multi-Modal	206696	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1101-<30 foot replacement bus with or without lift	One cutaway bus in FY 2020 using 5339 funds	exempt		NI	60800	15200	0	76000	5339

Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2020	Multi-Modal	206452	NATS	Berrien	Niles Dial-A-Ride	Transit Operating	Areawide	0	SP3000-operating except JARC and New Freedom	Regular operating expenses in FY 2020 using 5307 funds	exempt		NI	133080	164500	134060	431640	5307
2020	Multi-Modal	206717	NATS	Berrien	Buchanan Dial-A-Ride	Transit Operating	Buchanan Dial A Ride	0	P004-Operating Assistance	Operating Expenses	exempt		NI	24219	80380	99700	204299	5311
2021	Multi-Modal	206691	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1408-maintenance equipment (hoists, tools, etc.)	Maintenance equipment in FY 2021 using 5307 funds	exempt		NI	119340	29835	0	149175	5307
2021	Multi-Modal	206697	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1401-bus equipment (spare, tires, windshields, lifts, bus wraps, bike rack, ADA)	Purchase transit capital in FY 2021 using 5339 funds	exempt		NI	8400	2100	0	10500	5339
2021	Multi-Modal	206697	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1409-administrative vehicle	Purchase transit capital in FY 2021 using 5339 funds	exempt		NI	41600	10400	0	52000	5339
2021	Multi-Modal	206689	NATS	Berrien	Niles Dial-A-Ride	Transit Operating	Niles Dial A Ride	0	SP3000-operating except JARC and New Freedom	Operating expenses in FY 2021 us 5307 funds	exempt		NI	133080	164500	134060	431640	5307
2021	Multi-Modal	207667	NATS	Berrien	Buchanan Dial-A-Ride	Transit Operating	Buchanan Dial-A-Ride	0	P004-Operating Assistance	Operating Expenses	exempt		NI	27595	90829	100000	218424	5311
2022	Multi-Modal	206693	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1408-maintenance equipment (hoists, tools, etc.)	Purchase maintenance Equipment in FY 2022 using 5307 funds	exempt		NI	119340	29835	0	149175	5307
2022	Multi-Modal	206698	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1101-<30 foot replacement bus with or without lift	Replace one medium duty bus in FY 2022 using 5339 funds	exempt		NI	79200	19800	0	99000	5339
2022	Multi-Modal	206692	NATS	Berrien	Niles Dial-A-Ride	Transit Operating	Niles Dial A Ride	0	SP3000-operating except JARC and New Freedom	Operating expenses in FY 2022 using 5307 funds.	exempt		NI	133080	164500	134060	431640	5307
2022	Multi-Modal	207671	NATS	Berrien	Buchanan Dial-A-Ride	Transit Operating	Buchanan Dial A Ride	0	P004-Operating Assistance	Operating Expenses	exempt		NI	30806	100820	101100	232726	5311
2023	Multi-Modal	206695	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1408-maintenance equipment (hoists, tools, etc.)	Purchase maintenance Equipment in FY 2023 using 5307 funds	exempt		NI	119340	29835	0	149175	5307
2023	Multi-Modal	206699	NATS	Berrien	Niles Dial-A-Ride	Transit Capital	Niles Dial A Ride	0	SP1101-<30 foot replacement bus with or without lift	Replace one cutaway bus in FY 2023 using 5339 funds	exempt		NI	60800	15200	0	76000	5339
2023	Multi-Modal	206694	NATS	Berrien	Niles Dial-A-Ride	Transit Operating	Niles Dial A Ride	0	SP3000-operating except JARC and New Freedom	Operating expenses for FY 2023 using 5307 funds	exempt		NI	133080	164500	134060	431640	5307
2023	Multi-Modal	207672	NATS	Berrien	Buchanan Dial-A-Ride	Transit Operating	Buchanan Dial A Ride	0	P004-Operating Assistance	Operating Expenses	exempt		NI	34615	112918	102000	249533	5311
2019	Trunkline	201224	NATS	Berrien	MDOT	US-12	over St. Joseph River	0	Bridge CPM	Epoxy Ovly, Full Pt, Steel Beam Repairs, Pin & Hanger Repl	exempt		CON	2376106	526895	0	2903000	NH
2019	Trunkline	204423	NATS	Berrien	MDOT	Various	Signing Update	0.357	Traffic Safety	Cantilevers Replacement Project	exempt		PE	25000	0	0	25000	STG
2019	Trunkline	129876	NATS	Berrien	MDOT	US-31	over US-12	0	Bridge Rehabilitation	Shallow Overlay, Full Paint, Pin and Hangers	exempt		CON	2737473	607027	0	3344500	NH
2020	Trunkline	203698	NATS	Berrien	MDOT	M-139	M-139 from Niles to Berrien Springs	33.301	Road Capital Preventive Maintenance	Overband Crack Fill	exempt		CON	80524	17676	0	98200	ST
2020	Trunkline	204423	NATS	Berrien	MDOT	Various	Signing Update, Signing Updates	0.357	Traffic Safety	Cantilevers Replacement Project	exempt		CON	230000	0	0	230000	STG
2020	Trunkline	203792	NATS	Berrien	MDOT	M-51	Main Street to North City Limits of Niles	1.368	Road Capital Preventive Maintenance	Mill and One Course Hot Mix Asphalt Overlay	exempt		CON	642199	142406	0	784605	NH
2023	Trunkline	113735	NATS	Berrien	MDOT	US-12 E	US-12 and Niles Buchanan Road	0.002	New Facilities	Construct new carpool lot.	exempt		CON	107224	23777	0	131000	ST

Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2023	Trunkline	201984	NATS	Berrien	MDOT	US-31	US-12 (Exit 3) to Matthew Road	6.101	Road Rehabilitation	Hot Mix Asphalt Overlay	exempt		CON	23245400	5154600	0	28400000	NH
TwinCATS Future Projects																		
Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2024	Local	129836	TWINCATS	Berrien	Berrien County	Red Arrow Highway	1.6 miles S of Bridgman to 2.4 miles S of Bridgman	0.8	Road Rehabilitation	Resurface	exempt		CON	0	117363	0	117363	EDD
2024	Local	129836	TWINCATS	Berrien	Berrien County	Red Arrow Highway	1.6 miles S of Bridgman to 2.4 miles S of Bridgman	0.8	Road Rehabilitation	Resurface	exempt		CON	762432	0	100000	862432	STL
2024	Trunkline	132824	TWINCATS	Berrien	MDOT	I-94 EB	I-94 BL (Exit 23) to the St. Joseph River	6.352	Reconstruction	Reconstruction	exempt		CON	73308600	8145400	0	81454000	IM
2024	Local	202779	TWINCATS	Berrien	Berrien County	Pipestone Rd	Nickerson Road to Sodus Parkway	1.434	Road Capital Preventive Maintenance	Mill and Fill existing HMA Surface	exempt		CON	244000	0	61000	305000	STUL
2024	Local	206283	TWINCATS	Berrien	Berrien County	Washington Ave	M-63 to Maiden Lane	2.177	Road Capital Preventive Maintenance	Mill and Fill existing pavement	exempt		CON	500000	0	300000	800000	STUL
2024	Local	206285	TWINCATS	Berrien	St. Joseph	Langley Ave	Miller Dr to Pearl Street	0.386	Reconstruction	Reconstruction	exempt		CON	657000	0	1443000	2100000	STUL
2024	Trunkline	207391	TWINCATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Mrkgs	All of TWINCATS MPO	2.876	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		PE	999	111	0	1110	HSIP
2024	Trunkline	207391	TWINCATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Mrkgs	All of TWINCATS MPO	2.876	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		CON	212787	23643	0	236430	HSIP
2024	Trunkline	207392	TWINCATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of TWINCATS MPO	3.816	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		PE	999	111	0	1110	HSIP
2024	Trunkline	207392	TWINCATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of TWINCATS MPO	3.816	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		CON	45954	5106	0	51060	HSIP
2024	Trunkline	207403	TWINCATS	Kalamazoo	MDOT	Southwest Regionwide Retroreflectivity Readings	All of TWINCATS MPO	1.691	Traffic Safety	Pavement mrkg retroreflectivity readings on trunklines in Southwest Region	exempt		CON	1099	122	0	1221	HSIP
2024	Trunkline	204332	TWINCATS	Berrien	MDOT	I-94	Exit 23 off I-94 BL Stevensville, Berrien Co.	0	Roadside Facilities - Improve	Expand and resurface.	exempt	carpool parking lot	CON	90036	19966	0	110000	ST
Cass County																		
Niles-Buchanan-Cass Area Transportation Study (NATS) LRTP Projects																		
Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2021	Trunkline	202018	NATS	Cass	MDOT	M-62	M-62 at May Street	0.163	Minor Widening	Offset Right Turn Lane	exempt	intersection improvement	CON	406800	45200	0	452000	HSIP
2019	Local	129851	NATS	Cass	Cass County	Cassopolis Road	Mason to Lost	0.8	Road Rehabilitation	Resurface	exempt		CON	0	18800	0	18800	EDD
2019	Local	129851	NATS	Cass	Cass County	Cassopolis Road	Mason to Lost	0.8	Road Rehabilitation	Resurface	exempt		CON	75200	0	0	75200	STL
2019	Local	130772	NATS	Cass	Cass County	Redfield St	Conrad Road to M-62	1.035	Resurface	Mill and replace HMA	exempt		CON	174341	0	38659	213000	STU
2019	Local	202885	NATS	Cass	Cass County	Redfield Street	Refield Street between Fir Road and Brush Road	1.005	Traffic Safety	Tree Removal	exempt		CON	21870	0	2430	24300	HRRR

Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2019		203014	NATS	Cass	Cass County	Redfield St	Redfield road Gumwood to Fir	1.356	Road Capital Preventive Maintenance	hot mix asphalt resurfacing and aggregate shoulders	exempt		CON	115200	0	28800	144000	STL
2020	Local	130763	NATS	Cass	Cass County	Lake St	Airport Road to Huntly	1.514	Road Rehabilitation	Mill and Fill	exempt		CON	220995	0	49005	270000	STU
2020	Local	130776	NATS	Cass	Cass County	Mason St	Cassopolis Road to Calvin Center Road	2.146	Road Rehabilitation	HMA overlay, shoulders, signage, pavement markings	exempt		CON	28081			28081	STU
2020	Local	203032	NATS	Cass	Cass County	Conrad Rd	Conrad Rd & May St. US-12 to Brizandine Rd.	1.241	Road Capital Preventive Maintenance	resurface	exempt		CON	115200	0	40050	155250	STL
2021	Local	206327	NATS	Cass	Cass County	Barron Lake Rd	M 60 to Cook Street	2.641	Road Capital Preventive Maintenance	Overlay of travel lanes and paved shoulder, signage, and pavement markings	exempt		CON	279250	0	120000	399250	STU
2022	Local	206393	NATS	Cass	Cass County	Mason St	Calvin Center Road to Tharp Lake Road	0.996	Road Rehabilitation	Crush and Shape and Resurfacing	exempt		CON	234619	0	94381	329000	STU
2022	Local	207175	NATS	Cass	Cass County	Barron Lake Rd	Cook Street to Pokagon Highway	2.48	Road Capital Preventive Maintenance	Mill and one course non-structural overlay	exempt		CON	0	87000	0	87000	EDD
2022	Local	207175	NATS	Cass	Cass County	Barron Lake Rd	Cook Street to Pokagon Highway	2.48	Road Capital Preventive Maintenance	Mill and one course non-structural overlay	exempt		CON	185000	0	198000	383000	STL
2023	Local	207181	NATS	Cass	Cass County	Calvin Center Rd	US-12 to Grange Street	1.32	Road Capital Preventive Maintenance	Mill and one course non-structural hot-mix-asphalt overlay	exempt		CON	0	24800	0	24800	EDD
2023	Local	207181	NATS	Cass	Cass County	Calvin Center Rd	US-12 to Grange Street	1.32	Road Capital Preventive Maintenance	Mill and one course non-structural hot-mix-asphalt overlay	exempt		CON	198400	0	24800	223200	STL
2019	Trunkline	200366	NATS	Cass	MDOT	M-60 E	M60BR (MAIN) @ US12BR, US31BR, 12TH M51 (ELEVENTH) @ ONTARIO RD M60 @ M60BR, YANKEE, BEEBE & HUNTLEY M51 (5TH) @ US33, US12BR (MAIN)	0	Traffic Safety	Traffic Signal Modernizations; connected vehicle installations.	exempt		ROW	0	0	0	0	STG
2019	Trunkline	203694	NATS	Cass	MDOT	US-12	US-12 west and east of Edwardsburg and M-62	23.669	Road Capital Preventive Maintenance	Crack seal pre-treatment with chip sealing	exempt		CON	1032453	226636	0	1259089	ST
2019	Trunkline	202018	NATS	Cass	MDOT	M-62	M-62 at May Street	0.163	Minor Widening	Offset Right Turn Lane	exempt		PE	53100	5900	0	59000	HSIP
2020	Trunkline	200366	NATS	Cass	MDOT	M-60 E	M60BR (MAIN) @ US12BR, US31BR, 12TH M51 (ELEVENTH) @ ONTARIO RD M60 @ M60BR, YANKEE, BEEBE & HUNTLEY M51 (5TH) @ US33, US12BR (MAIN)	0	Traffic Safety	Traffic Signal Modernizations; connected vehicle installations.	exempt		CON	856160	0	0	856160	STG
2020	Trunkline	202654	NATS	Cass	MDOT	M-40	Signing Update	124.122	Traffic Safety	Non-freeway signing	exempt		PE	50000	0	0	50000	STG
2023	Trunkline	202654	NATS	Cass	MDOT	M-40	Signing Upgrade, Signing Update	124.122	Traffic Safety	Non-freeway signing	exempt		CON	177000	0	0	177000	STG

Projects listed with County Outside Berrien and Cass but Listed on NATS TIP List

Niles-Buchanan-Cass Area Transportation Study (NATS) LRTP Projects																		
Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source

Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2019	Trunkline	200693	NATS	Kalamazoo	MDOT	E Kilgore Rd	M62 @ ELKHART RD US12BR (LINCOLN) @ US12BR (GRANT) M66 (CENTERVILLE) @ FAWN RIVER RD M66 (CENTERVILLE) @ SOUTH ST I196BL (LA GRANGE) @ BLUE STAR HWY	0	Traffic Safety	Installation of detection for actuation	exempt		PE	22500	2500	0	25000	HSIP
2019	Trunkline	201991	NATS	Kalamazoo	MDOT	E Kilgore Rd	M-51 at Fulkerson, bell, and Bertrand, US-12 at 3rd	0	Traffic Safety	Dilemma zone detection at signalized intersections	exempt		PE	28800	3200	0	32000	HSIP
2019	Trunkline	201991	NATS	Kalamazoo	MDOT	E Kilgore Rd	M-51 at Fulkerson, bell, and Bertrand, US-12 at 3rd	0	Traffic Safety	Dilemma zone detection at signalized intersections	exempt		CON	225843	25094	0	250937	HSIP
2019	Trunkline	203024	NATS	Kalamazoo	MDOT	Southwest Region longitudinal pavement markings	Parts of Berrien and Cass Counties	3.537	Traffic Safety	Application of longitudinal pavement markings	exempt		PE	608	68	0	675	HSIP
2019	Trunkline	203024	NATS	Kalamazoo	MDOT	Southwest Region longitudinal pavement markings	Parts of Berrien and Cass Counties	3.537	Traffic Safety	Application of longitudinal pavement markings	exempt		CON	240395	26711	0	267105	HSIP
2019	Trunkline	203025	NATS	Kalamazoo	MDOT	Southwest Region special pavement markings	Parts of Berrien and Cass Counties	3.136	Traffic Safety	Application of special pavement markings	exempt		CON	136841	15205	0	152045	HSIP
2019	Trunkline	203513	NATS	Kalamazoo	MDOT	I-94 W	Parts of Berrien and Cass Counties	3.009	Traffic Safety	Pavement marking retroreflectivity readings and condition assessment	exempt		CON	1260	140	0	1400	HSIP
2019	Trunkline	203628	NATS	St. Joseph	MDOT	M-66	M51 (ELEVENTH) @ BELL RD	0	Traffic Safety	Signal modernizations and signal phasings	exempt		PE	60000	0	0	60000	NHG
2019	Trunkline	203628	NATS	St. Joseph	MDOT	M-66	M51 (ELEVENTH) @ BELL RD	0	Traffic Safety	Signal modernizations and signal phasings	exempt		CON	230000	0	0	230000	NHG
2020	Trunkline	206006	NATS	Kalamazoo	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of SWMPC MPO	3.199	Traffic Safety	Pvmt mrkg retroreflectivity readings on trunklines in Southwest Region	exempt		CON	1534	170	0	1704	HSIP
2020	Trunkline	206546	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Marking	All of SWMPC MPO	2.372	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		PE	639	71	0	710	HSIP
2020	Trunkline	206546	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Marking	All of SWMPC MPO	2.372	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		CON	232596	25844	0	258440	HSIP
2020	Trunkline	206547	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	3.756	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		PE	639	71	0	710	HSIP
2020	Trunkline	206547	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	3.756	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		CON	57510	6390	0	63900	HSIP

Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2021	Trunkline	207293	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Marking	All of SWMPC MPO	2.372	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2021	Trunkline	207293	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Marking	All of SWMPC MPO	2.372	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		CON	265824	29536	0	295360	HSIP
2021	Trunkline	207295	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	2.747	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2021	Trunkline	207295	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	2.747	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		CON	46008	5112	0	51120	HSIP
2021	Trunkline	207313	NATS	Kalamazoo	MDOT	Southwest Regionwide Retroreflectivity Readings	All of SWMPC MPO	1.389	Traffic Safety	Pvmt Marking Retroreflectivity Readings on trunklines in Southwest Region	exempt		CON	1406	156	0	1562	HSIP
2022	Trunkline	200693	NATS	Kalamazoo	MDOT	E Kilgore Rd	M62 @ ELKHART RD US12BR (LINCOLN) @ US12BR (GRANT) M66 (CENTERVILLE) @ FAWN RIVER RD M66 (CENTERVILLE) @ SOUTH ST I196BL (LA GRANGE) @ BLUE STAR HWY	0	Traffic Safety	Installation of detection for actuation	exempt		CON	138214	15357	0	153571	HSIP
2022	Trunkline	207328	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Marking	All of SWMPC MPO	1.309	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2022	Trunkline	207328	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Marking	All of SWMPC MPO	1.309	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		CON	272214	30246	0	302460	HSIP
2022	Trunkline	207329	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	2.829	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2022	Trunkline	207329	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	2.829	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		CON	58788	6532	0	65320	HSIP
2022	Trunkline	207341	NATS	Kalamazoo	MDOT	Southwest Regionwide Retroreflectivity Readings	All of SWMPC MPO	1.645	Traffic Safety	Pavement mrkg retroreflectivity readings on trunklines in Southwest Region	exempt		CON	1406	156	0	1562	HSIP
2023	Trunkline	207365	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Mrkgs	All of SWMPC MPO	0.978	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP



Fiscal Year	Job Type	Job#	MPO	County	Responsible Agency	Project Name	Limits	Length	Primary Work Type	Project Description	Air Quality	Air Quality comment	Phase	Fed Estimated Amount	State Estimated	Local Estimated Amount	Total Estimated Amount	Fund Source
2023	Trunkline	207365	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Mrkgs	All of SWMPC MPO	0.978	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		CON	272214	30246	0	302460	HSIP
2023	Trunkline	207367	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	1.191	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2023	Trunkline	207367	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	1.191	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		CON	71568	7952	0	79520	HSIP
2023	Trunkline	207378	NATS	Kalamazoo	MDOT	Southwest Regionwide Retroreflectivity Readings	All of SWMPC MPO	1.721	Traffic Safety	Pvmt marking retroreflectivity readings on trunklines in Southwest Region	exempt		CON	1406	156	0	1562	HSIP
2024	Trunkline	207391	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Mrkgs	All of SWMPC MPO	2.876	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2024	Trunkline	207391	NATS	Kalamazoo	MDOT	Southwest Regionwide Longitudinal Pavement Mrkgs	All of SWMPC MPO	2.876	Traffic Safety	Longitudinal pavement marking application on trunklines in Southwest Region	exempt		CON	272214	30246	0	302460	HSIP
2024	Trunkline	207392	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	3.816	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		PE	1278	142	0	1420	HSIP
2024	Trunkline	207392	NATS	Kalamazoo	MDOT	Southwest Regionwide Special Pavement Markings	All of SWMPC MPO	3.816	Traffic Safety	Special pavement marking application on trunklines in Southwest Region	exempt		CON	58788	6532	0	65320	HSIP
2024	Trunkline	207403	NATS	Kalamazoo	MDOT	Southwest Regionwide Retroreflectivity Readings	All of SWMPC MPO	1.691	Traffic Safety	Pavement mrkg retroreflectivity readings on trunklines in Southwest Region	exempt		CON	1406	156	0	1562	HSIP
2024	Trunkline	207403	NATS	Kalamazoo	MDOT	Southwest Regionwide Retroreflectivity Readings	All of SWMPC MPO	1.691	Traffic Safety	Pavement mrkg retroreflectivity readings on trunklines in Southwest Region	exempt		CON	1406	156	0	1562	HSIP