

Ozone and Fine Particulate Matter (PM_{2.5}) Conformity Analysis

For The Adoption of SEMCOG's 2050 Regional Transportation Plan

(Draft for Comments)

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Introduction

The federal Clean Air Act requires that federally funded highway and transit projects contained in regional long-range transportation plans (RTP) and Transportation Improvement Programs (TIP) be consistent with the air quality goals established in state air quality implementation plans (SIP). The process for demonstrating this consistency is called Air Quality Conformity. The purpose of Conformity is to ensure that projects in the plan will not cause new air quality violations, worsen any existing violations, or delay timely attainment of National Ambient Air Quality Standards (NAAQS).

The U.S. Environmental Protection Agency (EPA) has established NAAQS for [six criteria air pollutants](#): carbon monoxide, lead, ground-level ozone, nitrogen dioxide, sulfur dioxide, and particulate matter. EPA designates an area as either “attainment” or “nonattainment” for each of these pollutants based on whether local air monitoring data shows it is meeting or not meeting these standards. Areas that were initially designated as “nonattainment” for a particular standard but later attain that standard are termed “maintenance” areas.

Pollutants Analyzed for Transportation Conformity in Southeast Michigan

Air quality transportation conformity analysis is required for the entire seven-county region of southeast Michigan due to its designated status of “maintenance” for particulate matter and ozone. Below is a summary of southeast Michigan’s [current air quality status](#) for each of these two pollutants.

- **Fine Particulate Matter (PM_{2.5}):** The entire seven-county region was originally designated nonattainment for both the 1997 annual (15 µg/m³) and 2006 24-hour (35 µg/m³) PM_{2.5} standards. However, since the implementation of Michigan’s State Implementation Plan (SIP) for this pollutant, levels have declined significantly, and all air monitors have been measuring levels well below the standards since 2009. Consequently, the U.S. EPA has re-designated the region as a “maintenance area” for these two standards in 2013. In 2015, southeast Michigan was designated as “attainment” for the tougher 2012 annual standard (12 µg/m³) and the 1997 annual standard was revoked by the EPA in 2016. Thus, conformity analysis for this pollutant is only required for the 24-hour standard for the region.
- **Ozone:** The entire region was originally designated nonattainment for the 1997 ozone NAAQS of 0.08 ppm. Following successful implementation of Michigan’s SIP for this pollutant, the region was re-designated as “maintenance” in 2009. In 2012, Southeast Michigan was designated as “attainment” for the 2008 ozone NAAQS of 0.075 ppm. In 2018, the entire seven-county region was designated nonattainment for the new stricter 2015 ozone NAAQS of 0.070 ppm by the EPA. However, since the implementation of Michigan’s SIP for this pollutant, all air monitors have been measuring levels below the standards. Therefore, on May 19, 2023, the EPA redesignated the region to “attainment/maintenance area” for the 2015 ozone NAAQS. At the same time, the EPA also approved the 2025 and 2035 VOC and NO_x motor vehicle emissions budgets included in Michigan’s plan for maintaining the 2015 ozone NAAQS through 2035 in the region. Thus, conformity analysis for this pollutant is required for the region.

Overview of Conformity Analysis Process

To analyze conformity, emissions generated by all vehicles on Southeast Michigan's roadway system are estimated using a complex set of computer models. The models estimate the expected change in these emissions due to the combination of:

- Anticipated growth in the region, and
- The implementation of regionally significant transportation projects that either increase or decrease roadway capacity (e.g., building of new roads, adding or reducing the number of traffic lanes on existing roads). The impact of major transit projects is also included.

This report provides the results of SEMCOG's air quality conformity analysis for SEMCOG's 2050 Regional Transportation Plan (RTP), as well as detailed documentation on the modeling process used to conduct this analysis.

1. MOVES Model Run Specifications

EPA's MOVES version MOVES4.0.1 was used to perform this transportation conformity analysis. MOVES' County level run was utilized, and Wayne County was chosen to represent the fuel characteristics used in all seven SEMCOG counties (Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, and Wayne counties).

These seven counties comprise Southeast Michigan's maintenance area for both the 1997 ozone National Air Ambient Quality Standard (NAAQS) and the 2015 ozone NAAQS. As ozone conformity analysis involves generating emissions for a high-ozone summer weekday, only weekday emissions were specified in MOVES. The simulated ozone meteorological data was entered into the month of July to represent the typical summer day.

These seven counties also reflect the maintenance area for the 2006 24-hour PM_{2.5} NAAQS. MOVES runs for this pollutant specify the weekdays of the three winter months: December, January and February since previous monitoring data has shown PM_{2.5} emissions are highest during these months.

Although Wayne County was chosen to represent the whole region geographically in MOVES runs, all local inputs were developed to represent the transportation activities in all seven SEMCOG counties. More information on the development of these local inputs is provided in Section 7.

2. Results of Transportation Conformity Analysis

A. 24-Hour Fine Particulate Matter (PM_{2.5})

Table 1 shows the results of the 24-hour fine particulate matter (PM_{2.5}) conformity analysis for the Southeast Michigan attainment/maintenance area. This area includes the entire seven-county SEMCOG region. In accordance with EPA conformity guidance on the 24-hour PM_{2.5} standard, the analysis uses daily emissions inventories for the season in which most 24-hour PM_{2.5} violations occur. Research by the Michigan Environment, Great Lakes, and Energy (EGLE) and SEMCOG's Air Quality Study (SEMAQS) group found that PM_{2.5} concentrations in Southeast Michigan tend to be highest during the winter season. Thus, vehicle emissions for an average winter day are used for this conformity analysis.

On-road mobile source emission budgets for the 24-hour standard were approved by the EPA in 2013, when the region was re-designated as an attainment/maintenance area. Conformity

is demonstrated if forecasted 24-hour PM_{2.5} and nitrogen oxide (NO_x) emissions for specific future years do not exceed these budgets. The data in Table 1 show that forecasted emissions of both PM_{2.5} and NO_x are well below the established budgets for all analysis years. Thus, conformity is demonstrated.

Table 1: Results of Daily PM_{2.5} Conformity Analysis -Budget Emissions Test

Analysis Year	Emissions (Tons per winter weekday)		Regional Winter Weekday VMT (millions)
	Primary PM _{2.5}	NO _x	
Conformity Budget	16	365	NA
2025	2.85	62.08	121.74
2030	2.34	39.39	124.02
2035	2.11	26.15	125.85
2040	1.99	21.27	127.19
2050	1.95	18.52	128.98

B. Ozone

Table 2 shows the results of the ozone conformity analysis for SEMCOG's 2015 ozone "attainment/maintenance" area. This area includes the entire seven-county SEMCOG region. Conformity is demonstrated if forecasted emissions for specific future years do not exceed the EPA-approved mobile source emission budgets set forth in Michigan's State Implementation Plan (SIP) for maintaining the 2015 ozone NAAQS through 2035 in the region.

The data in Table 2 show that forecasted emissions in the SEMCOG region for the two pollutants causing ozone formation - volatile organic compounds (VOC) and nitrogen oxides (NO_x) - are below the approved mobile source emissions budgets of 2015 ozone for all analysis years. Thus, conformity is demonstrated.

Table 2: Results of 8-Hour Ozone Conformity Analysis -Budget Emissions Test

Analysis Year	Emissions (Tons per summer weekday)		Regional Summer Weekday VMT (millions)
	VOC	NO _x	
Conformity Budget - 2025 Interim Year	47.86	104.35	NA
2025	41.52	61.94	145.72
2030	32.27	38.61	148.45
Conformity Budget -2035 Maintenance Year	44.67	102.41	NA
2035	27.86	24.18	150.65
2040	25.00	18.51	152.25
2050	21.51	15.27	154.39

3. Projects Included in the Conformity Analysis

This analysis included all capacity-related projects proposed for SEMCOG's 2050 RTP, plus those already in SEMCOG's 2045 RTP with their open-to-traffic dates set in future years. A complete list of the projects included in this analysis can be found in Appendix A.

4. Coordination With Interagency Workgroup

A. Coordination Process

On August 21, 2023, the Michigan Transportation Conformity Interagency Workgroup (MITC-IAWG) held a conference call to review proposed projects of SEMCOG's 2050 RTP. The group also made consensus on the modelling process and assumptions. A summary of this call is provided in Appendix B, along with the list of projects being reviewed during the call. The results of the conformity analysis are documented in Section 2 above. A copy of this conformity analysis documentation was sent to each member of the MITC-IAWG for review and comment.

B. MITC-IAWG Comments and Responses

No comments received to date.

5. Description of Public Participation Process

A. Public Involvement

A public comment period for the 2050 RTP was initiated on March 27, 2024, and concluded on April 26, 2024. SEMCOG's General Assembly on June 28, 2024, formally adopted both documents. Public notices were emailed to a broad cross section that included interested citizens, advocacy groups, community organizations, and municipal clerks. The notice was also sent to the media, public libraries, published in SEMCOG's biweekly electronic newsletter, and posted on its Web site and social media pages.

B. Public Comments and Responses

No comments received to date.

6. Formal MPO Action Supporting the Conformity Determination

SEMCOG committee action on the 2050 RTP:

- Transportation Coordinating Council (TCC), April 18, 2024
- Executive Committee, May 03, 2024
- General Assembly, June 28, 2024

7. Key Modeling Assumptions and Local Inputs for SEMCOG Area

A. Description of Local Travel Data Inputs

1) Demographic Data

Travel forecasts used to calculate on-road mobile source emissions for the conformity analysis were based on demographic data from SEMCOG's 2050 Regional Development Forecast (RDF). At the time the base year inputs were developed, 2020 Census had only released limited 2020 household and population summary results, which also included intentional errors known as differential privacy (DP). This introduced complexities in creating a robust database for forecasting. Consequently, several data sources were combined to finalize the base year 2020 demographic data development.

- a) Census 2020 release: This contained block-level household and population counts, along with large-area age group and race composition. This data served as synthesis targets and marginal controls for adjusting ACS attributes.
- b) 2020 5-year ACS: This constituted the primary source for household and person attributes like age, children, income, workers, cars, etc. Data was predominantly obtained at the block group level, with certain attributes, such as household income, available only at the Census tract level.
- c) SEMCOG housing units: Locally collected data primarily used in the household placement process to allocate households across the region into individual buildings.

The household and population data development comprised two key steps:

- a) Household synthesis: adjusted marginal controls for each Census block group or tract using the data from 2020 census and 5-year ACS; conducted a population synthesis process to generate individual household and person records at the block group level using 2020 5-year ACS PUMS samples as seed data.
- b) Placement: allocated households into individual housing units using the synthesized data by the placement program; assembled traffic analysis zone (TAZ) data after addressing some conflicts between Census and local housing data.

The 2050 RDF forecast was adopted in March of 2023. A three-step process was used to develop this forecast.

- a) Regional forecast totals of population, households and jobs were generated from the REMI (Regional Economic Models, Inc.) model. The model forecasts Southeast Michigan's ability to attract and retain population and jobs relative to all other parts of the United States. Regional totals are developed in five-year intervals from the 2020 base year to 2050.
- b) The regional totals were then used to develop a small-area forecast that disaggregates regional population, households and jobs into 1.8 million land parcels using the UrbanSim model. UrbanSim is a computer simulation model for planning and analysis of urban development. It incorporates the interaction between land use, transportation, and public policy. In doing so, it puts future population and jobs into the most desirable land parcel and models residential and nonresidential developments as demand arises.

- c) Land parcels from the small-area forecast were aggregated to traffic analysis zones (TAZs) for use in SEMCOG's travel demand forecasting model.

2) SEMCOG's Travel Demand Forecasting Model (TDFM)

Vehicle miles of travel (VMT) forecasts for the on-road emissions inventory were developed using version E8 of SEMCOG's Travel Demand Forecasting Model (TDFM) for both passenger travel and commercial vehicle travel.

E8 – passenger travel model components were inherited from E7, which was implemented in 2018 using SEMCOG's 2015 travel survey and recalibrated in 2022 with the transit ridership numbers from SEMCOG's 2019 onboard transit survey. It utilizes the standard trip-based modeling process (trip generation, trip distribution and mode choice) to model the passenger travel demand. The program is run on the platform of TransCAD.

E8 - commercial vehicle (CV) travel model components were implemented in 2021 using SEMCOG's 2017 commercial vehicle survey and other observed truck data. The CV model runs with the script language of R and includes three model components, described below at high-level.

- a) The [Firm Synthesis Model](#), which develops a list of business establishment locations and processes zonal land use data used to generate truck trip demand in later steps of the CV model.
- b) The [Long-Distance Truck Model](#), which estimates long-haul freight truck travel to and from the region, as well as external to external truck travel through the region.
- c) The [Commercial Vehicle Touring Model](#) (CVTM), which estimates demand for local deliveries and the provision of services by non-freight carrying trucks. The tours and trips simulated to serve this demand, when combined with the travel from the long-distance truck model, means that the CV model simulates all truck movements within, to, from, and through the region.

The last step of SEMCOG's TDFM is traffic assignment, which runs in TransCAD and assigns zone-to-zone passenger and commercial vehicle trips to the E8 model road network by time period and vehicle type. The base year 2020 of E8 model used the 2020 household/population and the 2019 employment data as model inputs to validate the model output against the travel observed before Covid in the region. The travel behavior changes due to Covid were not reflected in this E8 model version. Regional travel was forecasted in five-year intervals from the base year 2020 to the last year of SEMCOG's 2050 Regional Transportation Plan (RTP).

Detailed documentation on the model is contained in a separate SEMCOG document that is available upon request.

3) Mapping of Road Types between TDFM and MOVES

To use TDFM data in MOVES, the road types used in SEMCOG's TDFM must be reconciled with those used in MOVES. The MOVES model uses four basic road types for on-road activities: Urban Restricted, Urban Unrestricted, Rural Restricted and Rural Unrestricted. The term, "restricted", refers to restricted or limited-access roadways. In the SEMCOG region, this includes all freeway facilities. All other roadways in the SEMCOG region are considered unrestricted facilities. The TDFM also includes several special functional classes that are not part of the regular roadway network (e.g. walk only, external zone connectors, transit-only links).

As TDFM functional classes do not distinguish between urban and rural facilities, another TDFM variable, Area Type, was used as a surrogate. The TDFM defines five area types (urban business, urban fringe, urban, suburban and rural) and assigns one to each roadway link based on the density of households, population and employment in the traffic analysis zone in which the link resides.

Table 3 shows how each area type and functional class in SEMCOG's TDFM is mapped to the four road types used in MOVES.

Table 3: Mapping of TDFM Functional Class and Area Type to MOVES Road Type

SEMCOG TDFM Functional Class	SEMCOG TDFM Area Type				
	Urban Business	Urban Fringe	Urban	Suburban	Rural
1 - Interstate Freeway	4 – MOVES Urban Restricted Road Type				2 – MOVES Rural Restricted Road Type
2 - Other Freeway					
3 - Principal Arterial	5 – MOVES Urban Unrestricted Road Type				3 – MOVES Rural Unrestricted Road Type
4 - Minor Arterial					
5/6 - Collector					
7 - Local					
9 - Uncertified Road					
99 - Centroid connector (local road surrogate)					
81 - 94 Transit Use Only					
90 - External	Non-road or outside region. Not used in MOVES				
96 - Walk Only					

4) Vehicle Miles of Travel (VMT)

MOVES provides an option to input annual VMT by the six FHWA Highway Performance Monitoring System (HPMS) vehicle types with the passenger car (HPMS 20) and other 4-tire/2-axle vehicles (HPMS 30) combined as HPMS25.

- HPMS10 – Motorcycle;
- HPMS25 - Passenger car and Other 4-tire, 2-axle vehicles;
- HPMS40 – Bus;
- HPMS50 - Single unit truck;
- HPMS60 - Combination truck.

Local VMT data used in the MOVES model is derived from SEMCOG's Travel Demand Forecasting Model (TDFM). The model generates average weekday VMT forecasts and does not currently have the capability to allocate this VMT to different HPMS vehicle types. The remaining part of this section describes the adjustment factors required to convert the TDFM data into the format required for MOVES.

a) HPMS Normalization

In accordance with EPA and FHWA guidance, SEMCOG TDFM VMT was normalized to HPMS VMT by county and road type. Normalization factors were developed by dividing the 2019 HPMS VMT by the estimated 2019 VMT from the E8 base year model. Table 2 shows the resulting factors. These factors were applied to TDFM VMT in all analysis years.

Table 4: HPMS Normalization Factors

County	Road Type	
	Restricted	Unrestricted
Livingston	1.14164	0.98447
Macomb	0.86251	1.06446
Monroe	0.96648	1.06906
Oakland	0.88927	0.97795
St Clair	1.03914	1.39949
Washtenaw	1.05165	0.92587
Wayne	0.93895	1.23753

b) Distribution of VMT Among HPMS Vehicle Types

Two sets of distribution factors for restricted and unrestricted roadways were developed to allocate the total VMT of an analysis year among five vehicle classes as described at the beginning of this section. Due to the impact of Covid, the scheduled traffic counts collection in 2020 was not able to be conducted. Therefore, all the VMT distribution factors developed with the 2015 counts for SEMCOG's 2045 RTP continued to be used for SEMCOG's 2050 RTP.

Table 5: VMT Distribution Factors by HPMS Vehicle Type

HPMS Vehicle Type	Restricted	Unrestricted
H10 – Motorcycle	0.00276	0.00589
H25 - Passenger Car and Other 4-tire, 2-axle vehicles	0.89201	0.90783
H40 – Bus	0.00166	0.00442
H50 - Single-Unit Truck	0.01931	0.05772
H60 - Combination Truck	0.08426	0.02414

Every five years starting from 2005, SEMCOG has been collecting screen line counts, which are mostly non-freeway counts, throughout the seven-county SEMCOG region. The 2015 screen line traffic count was used to develop VMT distribution factors for unrestricted roadways.

Every year, MDOT collects permanent traffic recording (PTR) counts, which includes vehicle classification counts from 13 freeway stations through SEMCOG region. These 2015 PTR classification counts were used to develop the average distribution factors for restricted roadways.

Both counts collected from MDOT and SEMCOG were classified based on FHWA's standard 13 traffic bins. These bins were aggregated to five vehicle classes required by MOVES. The factors derived from these counts are shown in Table 5.

c) Conversion of Average Weekday VMT to Annual VMT

Monthly and weekend adjustment factors were developed using 2014-2016 count data from the 35 PTR stations in Southeast Michigan. Monthly adjustment factors for motorcycles were developed separately due to its significant difference from other vehicle types. Weekend adjustment factors were developed for each of the five vehicle types since significant variations were shown among each other. These adjustment factors (shown in Table 6), along with the HPMS-normalized weekday VMT by vehicle type, were then entered into EPA's AADVMT converter of "moves4-aadvmt-conveter-tool-2023-08.xls" to compute the annual VMT, monthly and daily VMT fractions needed for MOVES4.

Table 6: Monthly and Weekend Adjustment Factors

Month	Monthly Adjustment Factors		Weekend Adjustment Factors				
	Motorcycle	Others	H10	H25	H40	H50	H60
Jan	0.61591	0.84277	0.74004	0.76880	0.50814	0.31258	0.34568
Feb	0.64898	0.89507	0.72627	0.74810	0.53906	0.28693	0.32378
Mar	0.70943	0.97283	0.78072	0.80027	0.56487	0.28654	0.32074
Apr	0.86564	1.01831	1.06431	0.80995	0.56013	0.30115	0.30696
May	1.18817	1.03520	1.00755	0.82747	0.51042	0.31796	0.31331
Jun	1.39409	1.08036	1.09094	0.82842	0.53217	0.34252	0.32225
Jul	1.47548	1.06434	1.04333	0.83058	0.61693	0.34956	0.31060
Aug	1.42116	1.07990	1.07714	0.85262	0.61017	0.36666	0.32662
Sep	1.29399	1.04244	1.02136	0.85271	0.61270	0.36014	0.32851
Oct	0.95050	1.04384	0.84475	0.82973	0.63029	0.33629	0.33077
Nov	0.78996	0.98673	0.72377	0.79581	0.61643	0.32037	0.34036
Dec	0.64280	0.93822	0.77974	0.78883	0.52432	0.31239	0.34840

5) Hourly VMT Fractions

Two different data sources were used to develop hourly VMT fractions for MOVES:

- 2015 screen line traffic counts collected by SEMCOG - All screen line counts include classification data but were only collected on weekdays.
- 2015 PTR counts for locations within the SEMCOG region - This data includes both weekdays and weekends. All the count stations are on freeways and only a limited number of these stations collect classification data.

Using this data, SEMCOG was able to develop weekday hourly VMT fractions for each of five HPMS vehicle types by restricted (shown in Table 7) and unrestricted MOVES road types (shown in Table 8).

Table 7: Weekday Hourly Fractions for Restricted Road Types

HOURL	H10	H25	H40	H50	H60	Total
1	0.00901	0.00853	0.01300	0.00685	0.01929	0.00941
2	0.00506	0.00508	0.01077	0.00607	0.01775	0.00618
3	0.00495	0.00412	0.01079	0.00671	0.01748	0.00531
4	0.00572	0.00487	0.01220	0.00855	0.01974	0.00621
5	0.01331	0.01094	0.01839	0.01323	0.02500	0.01218
6	0.03873	0.02914	0.02854	0.02445	0.03304	0.02940
7	0.05610	0.05634	0.04263	0.05114	0.04400	0.05518
8	0.05897	0.07031	0.05985	0.06570	0.04968	0.06843
9	0.05187	0.06151	0.06112	0.07814	0.05658	0.06139
10	0.04527	0.04812	0.06610	0.07654	0.06325	0.04996
11	0.04491	0.04411	0.06347	0.07401	0.06555	0.04653
12	0.04792	0.04569	0.05739	0.07388	0.06606	0.04798
13	0.05076	0.04846	0.06006	0.07350	0.06413	0.05029
14	0.05422	0.05120	0.06267	0.07587	0.06291	0.05269
15	0.06414	0.06073	0.06700	0.07750	0.06062	0.06107
16	0.07425	0.07509	0.06726	0.07268	0.05566	0.07339
17	0.07592	0.08344	0.05918	0.06113	0.04929	0.08007
18	0.07156	0.08323	0.05087	0.04636	0.04353	0.07909
19	0.06320	0.06326	0.04795	0.03500	0.04076	0.06079
20	0.04912	0.04401	0.03725	0.02398	0.03570	0.04292
21	0.03837	0.03466	0.02944	0.01737	0.03160	0.03407
22	0.03307	0.02891	0.03085	0.01314	0.02904	0.02863
23	0.02533	0.02233	0.02336	0.01009	0.02620	0.02243
24	0.01823	0.01591	0.01989	0.00810	0.02316	0.01638

Table 8: Weekday Hourly Fractions for Unrestricted Road Types

Hour	H10	H25	H40	H50	H60	Total
1	0.00536	0.00794	0.00434	0.00529	0.01420	0.00791
2	0.00371	0.00543	0.00249	0.00395	0.01364	0.00552
3	0.00416	0.00527	0.00357	0.00407	0.01379	0.00539
4	0.00426	0.00685	0.00344	0.00528	0.01637	0.00696
5	0.00865	0.01299	0.00744	0.00917	0.02186	0.01294
6	0.01924	0.02808	0.01596	0.02223	0.03012	0.02769
7	0.03800	0.04830	0.06490	0.04586	0.04488	0.04809
8	0.06079	0.06905	0.09539	0.06604	0.06031	0.06873
9	0.05785	0.06046	0.09259	0.07022	0.06781	0.06133
10	0.04103	0.04541	0.06258	0.06268	0.06417	0.04691
11	0.04297	0.04380	0.05978	0.06083	0.06390	0.04533
12	0.04714	0.04747	0.06159	0.06332	0.06677	0.04891
13	0.05924	0.05097	0.05531	0.06543	0.06308	0.05216
14	0.06083	0.05242	0.06116	0.06275	0.06378	0.05338
15	0.07287	0.06154	0.08679	0.06809	0.06259	0.06213
16	0.08846	0.07415	0.09969	0.07556	0.06072	0.07411
17	0.10167	0.08174	0.08279	0.07774	0.05772	0.08105
18	0.09847	0.08327	0.04963	0.07190	0.05491	0.08187
19	0.07032	0.06446	0.03165	0.05387	0.04189	0.06319
20	0.04197	0.04739	0.01901	0.03639	0.03149	0.04621
21	0.03187	0.03906	0.01488	0.02833	0.02705	0.03800
22	0.01966	0.02956	0.01118	0.01918	0.02313	0.02866
23	0.01337	0.02062	0.00735	0.01304	0.01861	0.02003
24	0.00810	0.01378	0.00649	0.00879	0.01722	0.01351

However, for weekends, the count data was not robust enough to develop separate factors by road type, so only a single set of hourly VMT factors (shown in Table 9 below) was developed for both restricted and unrestricted road types.

Table 9: Weekend Hourly Fractions for Restricted/Unrestricted Road Types

HOUR	H10	H25	H40	H50	H60	Total
1	0.01635	0.01781	0.03310	0.01946	0.03316	0.01839
2	0.01066	0.01119	0.02323	0.01586	0.02873	0.01187
3	0.00790	0.00841	0.01984	0.01526	0.02595	0.00911
4	0.00579	0.00642	0.01708	0.01556	0.02498	0.00718
5	0.00749	0.00823	0.01755	0.01712	0.02806	0.00902
6	0.01279	0.01332	0.02291	0.02249	0.03179	0.01407
7	0.01867	0.02010	0.03379	0.03690	0.03798	0.02089
8	0.02291	0.02624	0.05137	0.05046	0.04349	0.02708
9	0.03282	0.03478	0.05412	0.06060	0.04905	0.03552
10	0.04456	0.04581	0.05471	0.06376	0.05285	0.04622
11	0.05503	0.05565	0.05689	0.06525	0.05602	0.05574
12	0.06466	0.06392	0.05137	0.06709	0.05710	0.06369
13	0.07084	0.06986	0.05404	0.06761	0.05578	0.06932
14	0.07520	0.07230	0.04839	0.06710	0.05434	0.07159
15	0.07703	0.07398	0.04786	0.06348	0.05153	0.07307
16	0.08072	0.07576	0.05201	0.06053	0.04996	0.07469
17	0.07736	0.07454	0.05285	0.05702	0.04782	0.07342
18	0.07136	0.07088	0.05550	0.05255	0.04620	0.06982
19	0.06338	0.06289	0.05654	0.04594	0.04549	0.06211
20	0.05482	0.05373	0.04961	0.03817	0.04285	0.05321
21	0.04560	0.04517	0.03900	0.03143	0.03990	0.04486
22	0.03578	0.03735	0.04079	0.02575	0.03628	0.03722
23	0.02814	0.02989	0.03471	0.02164	0.03196	0.02990
24	0.02016	0.02177	0.03273	0.01898	0.02874	0.02201

6) Road Type Distribution

Several steps were involved to produce the VMT road type distribution factors for each HPMS vehicle class. First, the 2019 HPMS VMT numbers were grouped into four MOVES road types (Urban Restricted, Urban Unrestricted, Rural Restricted and Rural Unrestricted). Then, the VMT value for each of the four MOVES road types was divided among five HPMS vehicle types based on the vehicle type distribution factors developed in Table 5. The final VMT road type distribution factors (Table 10) were developed by dividing the calculated VMT for each MOVES road type and each HPMS vehicle type with the total VMT of each HPMS vehicle class.

Table 10: Road Type Distribution Factors

HPMS Vehicle Type	MOVES Road Type			
	Rural Restricted	Rural Unrestricted	Urban Restricted	Urban Unrestricted
H10 - Motorcycle	0.020290	0.048728	0.193794	0.737189
H25 - Passenger Car or Other 4 tire, 2-axle vehicles	0.034454	0.039461	0.329089	0.596996
H40 - Bus	0.017007	0.050876	0.162438	0.769680
H50 - Single-Unit Truck	0.015430	0.051907	0.147378	0.785285
H60 - Combination Truck	0.063482	0.020471	0.606346	0.309700

7) Average Speed Distributions

MOVES uses the distribution of vehicle hours of travel (VHT) by average speed to determine an appropriate operating mode distribution. To develop the local average speed distribution for Southeast Michigan, SEMCOG used congested speed and VHT output from the TDFM to compute the VHT fraction in each MOVES speed bin. MOVES requires the user to input hourly speed distributions by road type and vehicle class. While SEMCOG's travel model does not provide hourly speed data, it calculates speeds by five different time periods:

- AM peak, simulating the hours of 6:30 - 9:00 a.m.;
- Mid-day, simulating the hours of 9:00 a.m. - 2:30 p.m.;
- PM peak, simulating the hours of 2:30 - 6:30 p.m.;
- Evening, simulating the hours of 6:30 p.m. - 10:00 p.m.
- Night, simulating the hours of 10 p.m. – 6:30 a.m.

For MOVES, separate speed distributions were developed for each of these time periods and applied to all hours within that period. This was done as follows:

- For each time period, the directional congested speed of each roadway link was assigned to one of MOVES 16 speed bins;
- The associated directional VHTs on the links were then aggregated by speed bin and MOVES road type;
- Then, for each road type, the VHT fraction in each speed bin was computed.

For each analysis year, the average speed distributions were developed. As no local data is currently available on speed differentiation between vehicle classes, the same distributions were applied to all vehicle types.

B. Description of Local Vehicle Data Inputs

Every year, SEMCOG receives a snapshot of July-01 active vehicle registration data from Michigan Department of State (DOS). The 2023 vehicle registration data was used as the primary data source in developing local vehicle population, age distribution, and alternate vehicle fuel and technology (AVFT) information. The following sections describe briefly

how each was developed. Detailed documentation on their development is contained in a separate memo of “*Development of Local Inputs using Vehicle Registration Data*”.

1) Vehicle Population

Year 2023 vehicle registration data was used to develop the base year vehicle population inputs for most MOVES source types. The body style, plate type and use type fields in the DOS database were used to determine the MOVES source type of each vehicle. Table 11 shows how each combination of DOS body style, plate type and use type was mapped to the MOVES source type. Where DOS data did not provide sufficient detail, it was supplemented with information from MOVES default distributions for Southeast Michigan counties. As noted in the table, the base year vehicle population for the transit bus (M42) and school bus (M43) was developed using the 2018/2019 bus fleet data obtained from the Michigan Department of Transportation (MDOT).

Table 11: Mapping between MOVES Vehicle Types and Michigan DOS Body Styles

MOVES Vehicle Type	Michigan DOS Body Style
M11 – Motorcycle	Motorcycle
M21 – Passenger Car	2-door, 4-door, Convertible
M31 – Passenger Truck	Non-Commercial Station Wagon/Pick-up/Van
M32 – Light Commercial Truck	Ambulance, Hearse, Panel, Commercial Station Wagon/Pick-up/Van
M41 – Other Bus	Bus population from DOS registration database
M42* – Transit Bus	DOS data not used. Instead, MDOT 2018/2019 transit bus fleet data of SEMCOG region was used.
M43* – School Bus	DOS data not used. Instead, MDOT 2018/2019 school bus fleet data of SEMCOG region was used.
M51 – Refuse Truck	Dump Truck, Mixer, utility, Wrecker, Stake, Tank (Apportioned this data to M51, M52 and M53 vehicle types using split factors from MOVES4 default run.)
M52 – Single-unit Short-haul Truck	
M53 – Single-unit Long-haul Truck	
M54 – Motor Home	Motor Home
M61* – Combination Short-haul Truck	DOS data not used. Instead, National default numbers of SEMCOG region was used.
M62* – Combination Long-haul Truck	

Future year vehicle population data was based on future growth of regional population, households, and jobs of that year from SEMCOG’s 2050 regional development forecasts (RDF). The rate of growth between 2023 and each future analysis year was calculated. Table 12 shows the growth factors of regional vehicle population. This rate was then uniformly applied to the 2023 vehicle population to generate the future year population for all the vehicle source types other than M61 and M62. Due to lacking sufficient information of combination trucks in the recent vehicle registration database, MOVES4’s default-scale run was used to obtain the combination short-haul (M61) and long-haul (M62) truck population of SEMCOG region for each analysis year.

Table 12 Regional Vehicle Population Growth Factors

Growth Index from 2023		Regional Growth Index Based on SEMCOG's 2050 RDF						
Forecasted Item	% of	2023	2025	2030	2035	2040	2045	2050
Population	30%	1.000000	0.999655	1.014418	1.035057	1.049615	1.058643	1.062214
Households	30%	1.000000	1.005571	1.025841	1.044242	1.055069	1.060096	1.063158
Jobs	40%	1.000000	1.006936	1.034116	1.048158	1.053197	1.062414	1.078203
Vehicle Population	100%	1.000000	1.004342	1.025724	1.043053	1.052684	1.060587	1.068893

2) Vehicle Age Distribution

Year 2023 DOS vehicle registration was used to develop the vehicle age distribution used in MOVES. The DOS body style field was used to assign each vehicle to one of six HPMS vehicle types (see Table 13 below). Once HPMS vehicle types had been assigned, the data was aggregated by model year and assigned to the appropriate age category. Model years 2023 and 2024 were considered age 0, 2022 was considered age 1 and so on. Model years 1993 and older were grouped into the age 30+ category. The age distribution for each HPMS vehicle type was then computed.

Table 13: Mapping between HPMS Vehicle Types and Michigan DOS Body Styles

HPMS Vehicle Type	Michigan DOS Body Style
H10 – Motorcycle	Motorcycle
H20 – Passenger Car	2-door; 4-door; Convertible
H30 – Other 4-tire, 2-axle vehicles	Station Wagon; Pick-up/Van; Ambulance; Hearse; Panel;
H40 – Bus	Bus
H50 – Single-unit Short Truck	Dump Truck; Mixer; Utility; Wrecker; Stake; Tank, Motor Home
H60* – Combination Truck	National default data for M61 and M62 was used

By using the base year 2023 data, future year age distribution was projected by applying EPA's age projection tool of "*moves4-age-distribution-projection-tool-2023-08.xls*". Instead of using local data, the default age distribution of combination trucks in MOVES4 was used for each analysis year.

3) Alternate Vehicle and Fuel Technology (AVFT)

The vehicle fuel engine fractions of AVFT table were developed by using the fuel code information included in the 2023 DOS vehicle *registration* data and the 2018/2019 school/transit bus fleet data. Based on its fuel code, each vehicle record was assigned with one of five MOVES fuel types (see Table 14 below). Then, the vehicles with the same MOVES fuel type were counted for each MOVES vehicle source type and each model year. The fuel engine fractions of vehicles were computed for the model years between 1993 and 2023, and for the following vehicle source type/group: 21, 31, 32, 41 & 42 & 43, 51 & 52 & 53, and 54.

Based on the data developed for the vehicle model years of 1993-2023, the fuel engine fractions of future model years can be projected by EPA's AVFT tool included in MOVES4.

Table 14: Mapping between MOVES Fuel Type and DOS Fuel Code

MOVES Fuel Type	DOS Fuel Code
1-Gasoline	Convertible
	Electric & Gas Hybrid
	Flexible
	Gas
	Gas & Oil Mix
2-Diesel Fuel	Diesel
	Electric & Diesel Hybrid
3-Compressed Natural Gas	Butane
	Comp Nat Gas
	Liq Nat Gas
	Propane
5-Ethanol (E85)	Alcohol
	Ethanol
9-Electricity	Electric
	FEV
	PHEV

C. Local Temperature Used for PM_{2.5} and Ozone

Temperature and humidity data are required inputs for MOVES. For the PM_{2.5} conformity analysis, local temperature profiles were developed for each month of the year. To generate these profiles, the average minimum, and maximum daily temperatures of each month in Southeast Michigan were compiled using 2020-2022 National Weather Service (NWS) local climatological data reports. EPA's *MeteorologicalDataConverter_Mobile6.xls* tool was then used to convert the average minimum and maximum temperatures to the required hourly temperature inputs for MOVES. Table 14 shows the average min/max temperatures that were used to develop each month's hourly profile. Since PM 2.5 emissions are at their highest during winter months, only data from December, January and February are used in the conformity analysis for this pollutant.

Table 15: Monthly Average Min/Max Temperatures for PM_{2.5}

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min	21.2	19.1	31.5	38.5	50.6	61.0	65.9	64.9	56.1	45.6	34.2	28.1
Max	33.5	34.1	50.8	57.2	70.0	82.0	84.9	84.2	75.3	63.5	51.4	40.5

For ozone analysis, different temperature inputs were used. The objective is to simulate the on-road emissions that are likely to occur on days when meteorological conditions are conducive to high ozone formation (i.e., hot summer days). The emission inventory data from 2019 to 2021 was used to develop the most recent ozone SIP for the ozone redesignation submittal of SEMCOG region. Thus, the maximum summer temperature used in MOVES was calculated by averaging the maximum local temperatures on the 10 highest ozone days of these three years. Similarly, the minimum summer temperature was calculated by averaging the minimum local temperatures on the same 10 highest ozone days. This yielded a maximum temperature of 88.7 degrees and a minimum of 63.7 degrees. These numbers were entered into the month of July to simulate a typical summer day for ozone conformity analysis.

Appendix A:
Projects Included in Conformity Analysis

Projects Included in 2050 RTP Conformity Analysis

FISCAL YEAR / PERIOD	PROJECT ID	COUNTY	JURISDICTION	PROJECT NAME	PROJECT LIMITS	PROPOSED WORK	Length	AQ Exempt	FIRST MODEL YEAR
2016	115576	Oakland	MDOT - Metro	I-75	from North of Coolidge road to South Boulevard	Reconstruct and add one lane in each direction		Non-Exempt	2025
2016-2018	127063	Wayne	MDOT - Regional	Gordie Howe International Bridge	Detroit to Windsor	Bridge access road infrastructure improvements		Non-Exempt	2025
2018	201437	Wayne	MDOT - Regional	I-75	N of 13 Mile Rd to Coolidge Hwy, Oakland County	Reconstruct and widen		Non-Exempt	2025
2018	201438	Wayne	MDOT - Regional	I-75	8 Mile Rd to N of 13 Mile Rd, Oakland County	Reconstruct and widen; drain tunnel construction		Non-Exempt	2025
2020	113542	Washtenaw	MDOT	M-17	Normal Rd to Michigan Ave, I-94 to Michigan Ave, Hamilton Rd to Ecorse Rd (Ecorse Rd is wrong in the description. It is actually Cross st. as said in the IAWG meeting)	Mill & resurface; Concrete patches. Road diet w/ buffered bike lanes	1.74	Non-exempt	2025
2020	124103	Oakland	MDOT	I-96	from I-275 to County Line	Installation of Active Traffic Management System	11.39	Non-exempt	2030
2020	207178	Macomb	RCMC	Mound Rd	I-696 to M-59	Reconstruct; add one lane each direction from 17 Mile Rd to M-59; add ITS, safety and ped/bike features.	9.40	Non-exempt	2025
2021	129661	Monroe	MDOT	I-75	Under LaPlaisance Rd	Bridge Replacement with interchange reconstruction	1.33	Exempt	2025
2021	206644	Macomb	MDCR	23 Mile Rd	Nine hundred (900) ft W of Heydenreich Rd 600 ft E of Romeo Plank Rd	Reconstruct roadway and widen from two to five lanes	1.15	Non-exempt	2025
2021	212853	Macomb	MCDR	23 Mile Rd	900 ft W of Card Rd to 900 ft W of Heydenreich Rd	Reconstruct and widen from two to five lanes	1.02	Non-exempt	2025
2022	209478	Oakland	RCOC	Waldon Rd	Waldon Rd, Clintonville Rd to Baldwin Rd	Pave Gravel Road	2.18	Exempt	2030
2022	210068	Livingston	MDOT	US-23	M-36 to one mile North of Spencer Rd	Milling and two-course overlay, flex route, bridge replacement & widening	8.00	Non-Exempt	2030
2022	211928	Wayne	Dearborn	Vernor Ave, Chase Rd	Dix Hwy to east city limits (Vernor); Gould St to Diversey St (Chase) (No road diet on Chase)	Rapid rectangular flashing beacon, crosswalks, road diet	0.25	Non-exempt	2025
2023	200202	Washtenaw	MDOT	US-12	US-12 from west of Platt Rd to west of US-23 interchange	Operational improvements; add one lane in each direction.	0.95	Non-Exempt	2025
2023	202543	Wayne	MDOT	I-94 E	from east of X01 of 82025 to Barrett Avenue, City of Detroit	Road Reconstruction	2.03	Non-exempt	2030
2023	210587	Livingston	Livingston County	N Old US 23 Hwy	Old US-23	Road Rehabilitation, Left Turn Lane Widening	2.10	Non-Exempt	2025
2024	21846	Wayne	Detroit	Rosa Parks Blvd	Fort St to W Jefferson, W. Jefferson from Rosa Parks to 8th St	Two-way Bike Track, Bus Stop, ADA Upgrades	0.54	Exempt	2025
2024	209389	Oakland	MDOT	M-59	from US-24 to Loop	Pedestrian Refuge and lane reduction; one WB motor vehicle lane reduced; three pedestrian refuge crossings and buffered bike lanes added	1.48	Non-Exempt	2025
2024	210599	Oakland	MDOT	I-75BL (Woodward Ave Loop)	I-75 BL (Woodward Ave Loop), M-59, and US-24 BR (N Cass Ave)	Only minor widening at intersections and converting one-way street to two-way street	2.68	Non-Exempt	2025
2024	210987	Wayne	MDOT	I-94 W	Lemay St over I-94	New Structure (A new bridge for motor vehicle traffic will be built on existing demolished route as part of I-94 modernization project)	-	Exempt	2030
2024	211921	Macomb	MCDR	Romeo Plank Rd	Approximately 725 ft south of Iroquois Middle School drive to 23 Mile Road	Reconstruction from 2 to 5 lanes with replacement of bridges and culverts	1.24	Non-exempt	2025
2024	214338	Livingston	Livingston County	Challis Rd	Challis Rd/Bauer Rd roundabout and road relocation	Construct roundabout at Bauer Rd and Challis Rd and relocate Challis Rd	0.58	Non-Exempt	2025
2024	218045	Oakland	Pontiac	Baldwin Ave	Multiple Routes, Various Locations, City of Pontiac	Road Diet (4-3 Lane Conversion), Signal modernization	1.04	Exempt	2025
2025	123138	Wayne	MDOT	M-153	W. of Sheldon Rd. to W. of Lotz Rd.	Reconstruction and widening of M-153 to a boulevard	2.41	Non-Exempt	2030
2025	132535	Oakland	Troy	Rochester Rd	Rochester Rd; Barclay to Trinway	Widen from 5 to 6 lane Blvd	1.11	Non-Exempt	2030
2025	210324	Wayne	MDOT	US-12	I-96 to Cass Ave	Reconstruct and other misc. work => No major widening; converting two-general purpose vehicle lanes to 1 general purpose vehicle lane and another for Transit/CAV lane	1.62	Non-Exempt	2030
2025	218427	Wayne	MDOT	I-94 E	I-94 east of X01 82024 (Conrail RR) to west of Burns Street	Road Reconstruction	2.03	Non-Exempt	2030
2026	218448	Oakland	RCOC	Pontiac Lake Rd	Pontiac Lake Rd, Margie Dr to Kingston St	Pave Gravel, no widening	0.80	Exempt	2030
2026	218703	Wayne	MDOT	M-10 S/Woodrow Wilson Ramp	M-10 S exit to Elnhurst	Ramp Removal	0.11	Non-Exempt	2030
2026	219056	Macomb	Macomb County	Schoenherr Rd	Schoenherr from 23 Mile Rd to N of 25 Mile Rd	Reconstruction and add center left turn lane	2.16	Non-Exempt	2030
2026	50RTP-030	Oakland	Road Commission Oakland County	12 Mile Road	Beck Road to Dixon Road	Widen road to four-lane boulevard.	1.50	Non-Exempt	2030
2027	130035	Wayne	MDOT	I-375BS W	S. of I-75/I-375 interchange to Jefferson Ave.	Reconstructing I-375/I-75 interchange and I-375 as a new at-grade boulevard	3.36	Non-Exempt	2030
2029	210997	Washtenaw	MDOT	I-94	Ann Arbor/Saline Road to US-23; US-23/I-94 interchange	Construct I-94 flex lane and State Street interchange improvements	3.34	Non-Exempt	2030
2025, 2028	211937	Livingston	MDOT	Kensington Rd	Kensington Rd from Larkins Rd to Grand River Ave	Install roundabouts at the I-96 and Kensington Rd ramp terminals	0.89	Non-Exempt	2030
2025, 2028	214565	Macomb	MDOT	21 Mile/I-94 W Ramp	I-94 Between M-59 and 21 Mile Road	Auxiliary Lane Construction along east and westbound I-94, connecting the ramp lanes between M-59 and 21 Mile Road. Additional work includes lengthening the ramp taper from EB M-59 to WB I-94.	1.88	Non-Exempt	2030
2027-2030	50RTP-002	Washtenaw	City of Ann Arbor	W. Stadium Blvd	Huron Rd (Jackson) to Main	Rebalance via road-diet to one motor vehicle lane in each direction with a center turn lane.	2.20	Non-Exempt	2030
2027-2030	50RTP-003	Wayne	Wayne County	Ecorse Rd	Merriman Rd to Middle Belt Rd	Reconstruct and Widen from two lanes to three lanes	1.00	Non-Exempt	2030
2027-2030	50RTP-012	Wayne	Wayne County	Ecorse Rd	Middlebelt Rd to 1550' West of Inkster Rd	Reconstruct, Widen from two lanes to three lanes, and Culvert Replacement	1.30	Non-Exempt	2030
2027-2030	50RTP-013	Wayne	Wayne County	Ecorse Rd	1250' East of Wayne Rd to Vining Rd	Reconstruct, Widen from two lanes to three lanes, Replace Culvert	1.00	Non-Exempt	2030
2027-2030	50RTP-014	Washtenaw	City of Ann Arbor	Huron Parkway	Plymouth Road to Washtenaw	Reduce one motor vehicle lane in each direction	3.32	Non-Exempt	2030
2027-2030	50RTP-026	Washtenaw	Washtenaw County Road Commission	State St	US-12 to Textile	Widen from 2 to 4 lane boulevard	1.50	Non-Exempt	2030
2031-2040	50RTP-004	Macomb	Macomb County Department of Roads	North Ave	21 Mile Rd to 23 Mile Rd	Reconstruct and widen road. (2 to 5 lanes)	2.01	Non-Exempt	2040
2031-2040	50RTP-005	Macomb	Macomb County Department of Roads	26 Mile Rd	Baker Rd to County Line Rd	Reconstruct and widen road. (1+1+1). The bridge will remain two lanes and not include a center lane.	1.70	Non-Exempt	2040

Projects Included in 2050 RTP Conformity Analysis

FISCAL YEAR / PERIOD	PROJECT ID	COUNTY	JURISDICTION	PROJECT NAME	PROJECT LIMITS	PROPOSED WORK	Length	AQ Exempt	FIRST MODEL YEAR
2031-2040	50RTP-027	Washtenaw	Washtenaw County Road Commission	State St	Textile to Morgan	Widen from 2 to 4-lane boulevard	1.00	Non-Exempt	2040
2031-2040	50RTP-036	Oakland		Beck Rd	Eight Mile Rd to 11 Mile Rd	Widen from two to five lanes	2.00	Non-Exempt	2040
2031-2040	50RTP-037	Oakland		Pontiac Trail	Decker Rd to Welch Rd	Widen from two to five lanes	0.50	Non-Exempt	2040
2031-2040	50RTP-038	Oakland	Beck Rd	Beck Rd	West Rd to Pontiac Trail	Widen from three to five lanes	1.00	Non-Exempt	2040
2031-2040	50RTP-040	Oakland		Beck Rd	12 Mile Rd to West Rd	Widen from three to five lanes	1.00	Non-Exempt	2040
2031-2040	50RTP-043	Wayne	MDOT	I-94	St. Aubin St to Burns Rd	Road Reconstruction		Non-Exempt	2040
2031-2040	50RTP-044	Wayne	MDOT	I-94	Russell Street to St. Aubin	Road Reconstruction		Non-Exempt	2035
2031-2040	50RTP-045	Wayne	MDOT	I-94	2nd Avenue to Beaubien Street, I-94 Mainline Service Roads & Cross Streets	Road Reconstruction		Non-Exempt	2040
2041-2050	50RTP-011	Washtenaw	Washtenaw County Road Commission	Jackson Rd	Dino to Parker	Reconstruct roadway, 2 to 4-lane, add center turn lane	1.00	Non-Exempt	2040
2041-2050	50RTP-028	Macomb	Macomb County Department of Roads	21 Mile Rd	Romeo Plank Rd to North Ave	Currently 21 mile road is one lane of traffic in each direction. After construction there will be a center turn lane with two lanes of traffic in each direction. (2+1+2)	3.00	Non-Exempt	2050
2041-2050	50RTP-029	Washtenaw	Washtenaw County Road Commission	Seven Mile Rd	Main to Seven Mile	Construct new 2-lane road	1.15	Non-Exempt	2050
2041-2050	50RTP-039	Oakland		Southfield Rd	Mt Vernon St to Beverly Rd	Widen from five lanes to four-lane boulevard	4.00	Non-Exempt	2050
2041-2050	50RTP-041	Oakland		Beck Rd	11 Mile Rd to Grand River Ave	Widen from two to five lanes	1.50	Non-Exempt	2050
2041-2050	50RTP-042	Oakland	RCOC	Ten Mile Rd	South Lyon E CL to Haggerty Rd	Widen from two to five lanes	10.00	Non-Exempt	2050
2041-2050	50RTP-046	Wayne	MDOT	I-94	I-96 to Trumbull Avenue	Road Reconstruction		Non-Exempt	2050
2041-2050	50RTP-047	Wayne	MDOT	I-94	Beaubien Street to Russell Street, I-94 Mainline and I-75 Interchange	Road Reconstruction		Non-Exempt	2045

Appendix B:

Summary of the MITC-IAWG Conference Call

Michigan Transportation Conformity Interagency Workgroup

Summary of August 21, 2023, Call

Participants:

EPA: Michael Leslie **FHWA:** Andrew Sibold **FTA:** n/a

MDOT: Richard Bayus, Lane Masoud, Michael Davis, Donna Wittl

EGLE: Breanna Bukowski **WATS:** Ryan Buck, Nick Sapkiewicz

SEMCOG: Steve Brudzinski, Jilan Chen, Michele Fedorowicz, Saima Masud, Maidson Penque, Allison Racisz, Chris Willam

On August 21, 2023, the Michigan Transportation Conformity Interagency Workgroup (MITC-IAWG) conducted a conference call to discuss the following items.

1. Reviewing the proposed project list for SEMCOG's 2050 Regional Transportation Plan (RTP)

The purpose of the discussion was to identify the air quality non-exempt projects, which need to be included in regional transportation conformity analysis.

Chris William described the timeline and the overall projects included in SEMCOG's 2050 RTP development. There are about 450 projects in total and 45 are new projects, which were not included in SEMCOG's previous RTP. SEMCOG has been doing stakeholder and public engagement, which will continue through this August. The draft materials will be available in the first quarter of next year and the adoption date is next June.

Jilan Chen then led the discussion on reviewing the project list, and SEMCOG's initial recommendations on the conformity exempt status of each project. She indicated that all air quality non-exempt projects were highlighted in green on the top portion of the project list, which was distributed to the group ahead of the meeting. There were a few being marked for the group to discuss on project specifics and the group consensus on their exempt or non-exempt status.

- Job #211155 – US-23 N reconstruction project between M-14 to I-94: the EA process and the project scope were discussed. Ryan Buck from WATS raised the concerns of air quality impacts. Michael Davis from MDOT stated that various alternatives were explored through the EA process, potentially being a replacement in kind or capacity improvements, but the preferable alternative or any flexible lane option has not been defined yet. The group agreed that this project be treated as “Exempt” for now but needs to be re-visited if the project scope gets changed or selected alternative being determined in future amendments.
- Job #211937 – Kensington Road minor widening project from Larkins Road to Grand River Avenue. In addition to installing roundabouts, there was an additional lane more than 0.5 mile being constructed, similar to right turn lane. The group agreed that this project is “Non-Exempt” and should be included in the regional emission analysis.

- Job #214565 – 21 Mile/I-94 W Ramp minor widening project between M-59 and 21 Mile Road: merge and weave lane being constructed. The lane additional specifics and the model network will be checked to see if any changes need to be made.
- Job #50RTP-002 – Stadium Blvd rehabilitation project between Huron Road to Main Street: the work description was corrected, and the project limit was clarified during the call. Nick Sapkiewicz from WATS added the State Street from Ellsworth to Oakbrook - non-motorized improvements project needs to be added to the project list though it is not a capacity and will be “Exempt” for the conformity purpose.
- Job #210997 – I-94 minor widening project - PE phase, from Ann Arbor/Saline Road to US-23: constructing I-94 flex lane. Ryan Buck raised a question on its “Exempt” status. SEMCOG explained the “Exempt” status was due to its “PE” phase. Both Michael Leslie from EPA and Donna Wittl from MDOT agreed with the general practice of these “non-construction” phases on the AQ status. The construction phase of this project has not been turned in to SEMCOG yet. MDOT will check and submit the construction phase of this project to be included in SEMCOG’s 2050 RTP project list. In that case, the construction phase will be “Non-Exempt” and be included in SEMCOG’s regional emission analysis.
- Job #215275 – Grafton Road minor widening project at Sigler Road intersection: left-turn lane and signal installation. The project scope needs to be confirmed and the project length may not be accurate. If it’s more than .5 mile, the AQ status will be changed to “Non-Exempt”.

Jilan emphasized that all these changes and any additional projects being submitted to SEMCOG after the call will be reflected in the revised project list for the group to review. She also specified that all the capacity projects including air quality non-exempt projects listed under 2050 RTP and the obligated ones from previous plan but the construction phases not completed yet will be included for SEMCOG’s regional emission analysis. The open-to-traffic dates collected from the project sponsors, or the general assumptions will be used to determine their model years accordingly.

2. Updates on the modeling and local data development

Jilan Chen presented to the group the recent efforts SEMCOG staff has made on model enhancements and local data development. The following is the summary of her topics.

- The four emission analysis years (2025, 2030, 2040 and 2050) were proposed for the two required pollutants (Ozone, and PM2.5) for SEMCOG’s conformity analysis. Michael Lesslie mentioned that the 2023 needs to be included in the analysis years as well. **Email communications after the call clarified that SEMCOG region is currently an “attainment/maintenance” area, so the year of 2023 is not needed for SEMCOG’s conformity analysis, but the year of 2035 should be included due to it’s one of the budget years established in the ozone SIP.**
- SEMCOG’s regional travel demand forecast model (TDFM) was enhanced with a newly developed commercial vehicle model using the 2017 regional commercial vehicle survey data. The enhanced model (version of E8Pus) was calibrated with SEMCOG’s 2019 regional transit on-board survey. The base year model was validated using the traffic observation data collected up to the year - 2019, the last year of the travel not impacted by Covid. SEMCOG’s recently approved 2050

Regional Development Forecasts (RDF), which includes households, population, and jobs, will be used as the inputs to SEMCOG's regional TDFM to forecast future travels.

- The key inputs to the Mobile Vehicle Emissions Simulator (MOVES) will be updated using regional available data including either 2019 or 2023 vehicle registrations data, observed traffic counts, and local climatological data, up to their availabilities and the impacts by Covid.

. Donna Wittl asked if SEMCOG is planning to use EPA's soon released version - MOVES4. Jilan responded that SEMCOG does not intend to use MOVES4 considering it is not released yet and will need some time for SEMCOG to explore any potential concerns and work.

Those on the call were in unanimous agreement with SEMCOG's recommendations on the 2050 RTP project list and the emission estimation approach for the regional conformity analysis.

SEMCOG 2050 RTP Development - Project List

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
211937	CON	2025, 2028	Livingston	Kensington Rd	Kensington Rd from Larkins Rd to Grand River Ave	0.89	Install roundabouts at the I-96 and Kensington Rd ramp terminals	Non-Exempt	2030	There are additional lane approaching (short) plus reducing bridge lanes to one in each direction
123138	CON	2025	Wayne	M-153	W. of Sheldon Rd. to W. of Lotz Rd.	2.412	Reconstruction and widening of M-153 to a boulevard	Non-Exempt	2030	TIP23-26, changed from FY2023 to FY2025
130035	CON	2027	Wayne	I-375BS W	S. of I-75/I-375 interchange to Jefferson Ave.	3.36	Reconstructing I-375/I-75 interchange and I-375 as a new at-grade boulevard	Non-Exempt	2030	TIP23-26, No changes
132535	CON	2025	Oakland	Rochester Rd	Rochester Rd: Barclay to Trinway	1.11	Widen from 5 to 6 lane Blvd	Non-Exempt	2030	TIP23-26, changed from FY2024 to FY2025
210324	CON	2025	Wayne	US-12	I-96 to Cass Ave	1.621	Reconstruct and other misc. work => No major widening: converting two-general purpose vehicle lanes to 1 general purpose vehicle lane and another for Transit/CAV lane	Non-Exempt	2030	TIP23-26, No changes
214565	CON	2025, 2028	Macomb	21 Mile/I-94 W Ramp	I-94 Between M-59 and 21 Mile Road	1.882	Auxiliary Lane Construction along east and westbound I-94, connecting the ramp lanes between M-59 and 21 Mile Road. Additional work includes lengthening the ramp taper from EB M-59 to WB I-94.	Non-Exempt	2030	more than one mile, will check => response back with one additional auxiliary lane in each side
218427	CON	2025	Wayne	I-94 E	I-94 east of X01 82024 (Conrail RR) to west of Burns Street	2.026	Road Reconstruction	Non-Exempt	2030	I-94 Package 1, Open to traffic 2029
218703	CON	2026	Wayne	M-10 S/Woodrow Wilson Ramp	M-10 S exit to Elmhurst	0.11	Ramp Removal	Non-Exempt	2030	
219056	CON	2026	Macomb	Schoenherr Rd	Schoenherr from 23 Mile Rd to N of 25 Mile Rd	2.161	Reconstruction and add center left turn lane	Non-Exempt	2030	TIP23-26, No changes
50RTP-002	CON	2027-2030	Washtenaw	W. Stadium Blvd	Huron Rd (Jackson) to Main	2.2	Rebalance via road-diet to one motor vehicle lane in each direction with a center turn lane.	Non-Exempt	2030	
50RTP-003	CON	2027-2030	Wayne	Ecorse Rd	Merriman Rd to Middle Belt Rd	1	Reconstruct and Widen from two lanes to three lanes	Non-Exempt	2030	
50RTP-012	CON	2027-2030	Wayne	Ecorse Rd	Middlebelt Rd to 1550' West of Inkster Rd	1.3	Reconstruct, Widen from two lanes to three lanes, and Culvert Replacement	Non-Exempt	2030	
50RTP-013	CON	2027-2030	Wayne	Ecorse Rd	1250' East of Wayne Rd to Vining Rd	1	Reconstruct, Widen from two lanes to three lanes, Replace Culvert	Non-Exempt	2030	
50RTP-004	CON	2031-2040	Macomb	North Ave	21 Mile Rd to 23 Mile Rd	2.01	Reconstruct and widen road. (2 to 5 lanes)	Non-Exempt	2040	45RTP-98 & 45RTP-137
50RTP-005	CON	2031-2040	Macomb	26 Mile Rd	Baker Rd to County Line Rd	1.7	Reconstruct and widen road. (1+1+1). The bridge will remain two lanes and not include a center lane.	Non-Exempt	2040	
50RTP-011	CON	2041-2050	Washtenaw	Jackson Rd	Dino to Parker	1	Reconstruct roadway, 2 to 4-lane, add center turn lane	Non-Exempt	2040	
50RTP-014	CON	2027-2030	Washtenaw	Huron Parkway	Plymouth Road to Washtenaw	3.32	Reduce one motor vehicle lane in each direction	Non-Exempt	2030	
50RTP-026	CON	2027-2030	Washtenaw	State St	US-12 to Textile	1.5	Widen from 2 to 4 lane boulevard	Non-Exempt	2030	
50RTP-027	CON	2031-2040	Washtenaw	State St	Textile to Morgan	1	Widen from 2 to 4-lane boulevard	Non-Exempt	2040	
50RTP-028	CON	2041-2050	Macomb	21 Mile Rd	Romeo Plank Rd to North Ave	3	Currently 21 mile road is one lane of traffic in each direction. After construction there will be a center turn lane with two lanes of traffic in each direction. (2+1+2)	Non-Exempt	2050	
50RTP-029	CON	2041-2050	Washtenaw	Seven Mile Rd	Main to Seven Mile	1.15	Construct new 2-lane road	Non-Exempt	2050	
50RTP-030	CON	2026	Oakland	12 Mile Road	Beck Road to Dixon Road	1.5	Widen road to four-lane boulevard.	Non-Exempt	2030	2045RTP-197, changed from FY2035-2045 to FY2026
50RTP-036	CON	2031-2040	Oakland	Beck Rd	Eight Mile Rd to 11 Mile Rd	2	Widen from two to five lanes	Non-Exempt	2040	45RTP-165, FY changed
50RTP-038	CON	2031-2040	Oakland	Beck Rd	West Rd to Pontiac Trail	1	Widen from three to five lanes	Non-Exempt	2040	45RTP-164, FY changed
50RTP-040	CON	2031-2040	Oakland	Beck Rd	12 Mile Rd to West Rd	1	Widen from three to five lanes	Non-Exempt	2040	45RTP-108, FY changed
50RTP-041	CON	2041-2050	Oakland	Beck Rd	11 Mile Rd to Grand River Ave	1.5	Widen from two to five lanes	Non-Exempt	2050	45RTP-198, FY changed
50RTP-037	CON	2031-2040	Oakland	Pontiac Trail	Decker Rd to Welch Rd	0.5	Widen from two to five lanes	Non-Exempt	2040	45RTP-168, FY changed
50RTP-039	CON	2041-2050	Oakland	Southfield Rd	Mt Vernon St to Beverly Rd	4	Widen from five lanes to four-lane boulevard	Non-Exempt	2050	45RTP-169, FY changed
50RTP-042	CON	2041-2050	Oakland	Ten Mile Rd	South Lyon E CL to Haggerty Rd	10	Widen from two to five lanes	Non-Exempt	2050	45RTP-200, FY changed
50RTP-043	CON	2031-2040	Wayne	I-94	St. Aubin St to Burns Rd		Road Reconstruction	Non-Exempt	2040	I-94 Package 4, Open to traffic 2038
50RTP-044	CON	2031-2040	Wayne	I-94	Russell Street to St. Aubin		Road Reconstruction	Non-Exempt	2035	I-94 Package 3, Open to traffic 2033
50RTP-045	CON	2031-2040	Wayne	I-94	2nd Avenue to Beaubien Street, I-94 Mainline Service Roads & Cross Streets		Road Reconstruction	Non-Exempt	2040	I-94 Package 5, Open to traffic 2040
50RTP-046	CON	2041-2050	Wayne	I-94	I-96 to Trumbull Avenue		Road Reconstruction	Non-Exempt	2050	I-94 Package 7, Open to traffic 2048
50RTP-047	CON	2041-2050	Wayne	I-94	Beaubien Street to Russell Street, I-94 Mainline and I-75 Interchange		Road Reconstruction	Non-Exempt	2045	I-94 Package 6, Open to traffic 2043

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210997	CON	2029	Washtenaw	I-94	Ann Arbor/Saline Road to US-23; US-23/I-94 interchange	3.343	Construct I-94 flex lane and State Street interchange improvements	Non-Exempt	2030	Added the CON phase after IAWG call
211155	CON	2026	Washtenaw	US-23 N	M-14 to I-94	7.316	Road system and operational improvement as defined through EA process, reconstruction as it is.	Exempt		No flex lanes defined yet, will be re-visited again if project scope changed or selected alternative decided. Changed to "Exempt"
215275	CON	2026	Monroe	Grafton Rd	Grafton Road at Sigler Road intersection	1.8	Left-turn lane and signal installation	Exempt	not in the model	Confirm on project limit for the added left turn. Sigler Road is not in the model network. Both Grafton and Sigler are Major collectors (NFC =5) => the affected area of Sigler and Grafton Road in all directions should be 750ft or less, change to exempt.
219107	CON	2025	Wayne	5 Mile Rd	Five Mile Rd and Ridge Rd	0.193	Traffic Signal and Center Left Turn Lane Construction	Exempt		Jobnet says "added capacity" but the extent is short it's a LTL
217652	CON	2025	Macomb	23 Mile Rd	23 Mile Road from Gratiot Avenue east to Canadian National RR	0.296	Road Reconstruction -No added capacity	Exempt		
217657	CON	2026	Macomb	Sugarbush Rd	Sugarbush Road from Callens Road to Jefferson Ave.	0.821	Road Reconstruction	Exempt		
218688	CON	2025	Wayne	Virginia Park St	Virginia Park Street	0.422	Brick Road Reconstruction	Exempt		
219115	CON	2025	Washtenaw	N Freer Rd	Dexter Chelsea to Trinkle Road	0.829	Reconstruction of Freer Road segment from Dexter Chelsea to Trinkle Rd - No added capacity	Exempt		
50RTP-006	CON	2041-2050	Macomb	Bordman Rd	Bordman Rd bridge over Newland Drain to Bordman Rd bridge over Newland Drain	0.07	Reconstruct bridge. (No additional lanes)	Exempt		
50RTP-008	CON	2027-2030	Macomb	Metropolitan Parkway	Mound Rd to Van Dyke Ave	1	Reconstruct road and replace bridge.	Exempt		
50RTP-015	CON	2041-2050	Macomb	McVicar Rd	McVicar Rd bridge over East Pond Creek to McVicar Rd bridge over East Pond Creek	0.07	Replace bridge.	Exempt		
50RTP-016	CON	2041-2050	St. Clair	Belle River Road	Riley Center Rd to Memphis City Limits	2	Road Reconstruct	Exempt		
50RTP-017	CON	2027-2030	St. Clair	Comstock/Burtch Rd	Cribbons to Babcock	6	Road Reconstruct	Exempt		
76899	CON	2026	Wayne	US-24	Carter to Pennsylvania	2.633	Reconstruction - No added capacity	Exempt		
85540	CON	2026	Oakland	M-59	Elizabeth Lake Road to US-24	1.449	Concrete Pavement Repair	Exempt		
116264	CON	2026	Washtenaw	M-52	at the I-94/M-52 interchange	0.007	Mill & resurface and expansion	Exempt		
125988	CON	2025	Oakland	Southfield	Regionwide	0	Design-Build-Finance- Operate-Maintain Fwy Ltg	Exempt		
128981	CON	2026	Oakland	Telegraph Rd	from Vanguard to Elizabeth Lake, City of Pontiac	0.519	Sidewalk extension/installation.	Exempt		
129977	CON	2026	Washtenaw	US-23	14 bridges on US-23 in Washtenaw County	0	Bridge Replacement, Epoxy Overlay, Deck Patching	Exempt		
130035	ROW	2025	Wayne	I-375	I-75 Interchange to Atwater Street	3.362	Reconstructing I-375/I-75 interchange and I-375 as a new at-grade boulevard	Exempt		
130035	PE	2025	Wayne	I-375	I-75 Interchange to Atwater Street	3.362	Reconstructing I-375/I-75 interchange and I-375 as a new at-grade boulevard	Exempt		
200131	NI	2025	Washtenaw	S Industrial Hwy	Areawide	0	Transit Operating Assistance 5307 Urban	Exempt		
200139	NI	2026	Washtenaw	S Industrial Hwy	Areawide	0	Transit Operating Assistance 5307 Urban	Exempt		
200158	NI	2025	Washtenaw	S Industrial Hwy	Areawide	0	Transit Capital 5339 Facilities Rehabilitations	Exempt		
200159	NI	2026	Washtenaw	S Industrial Hwy	Areawide	0	Transit Capital 5339 Facilities Rehabilitations	Exempt		
200183	CON	2025	Wayne	Newburgh Rd	Newburgh Rd	0.468	Remove and Replace concrete road, new 21AA agg baseand new ADA ramps at cross streets.	Exempt		
200217	CON	2025	Wayne	I-94	at Conrail Railroad (X02 of 82024)	0	Railroad Bridge Replacement	Exempt		
202694	CON	2026	Macomb	TSCwide	Various Routes in Macomb County	32.697	Non-Freeway Signing	Exempt		

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202993	CON	2025	Wayne	I-75 N	at Wheelock (D13 of 82194), city of Detroit	0.004	Pump Station Rehab	Exempt		
202994	CON	2026	Wayne	I-75 S	at Chrysler Fwy (D02 of 82251), City of Detroit	0.133	Pump Station Rehabilitation	Exempt		
203995	NI	2025	Washtenaw	Transit Capital	Areawide	0	Transit Capital FY25 Section 5307 Buses, Equip, Facilities, etc.	Exempt		
203996	NI	2026	Washtenaw	S Industrial Hwy	Areawide	0	Transit Capital FY26 Section 5307 Buses, Equip, Facilities, etc	Exempt		
204204	CON	2025	Monroe	I-275	Exit 5 at Carleton-Rockwood Road.	0	Single course mill and resurface existing carpool lot.	Exempt		
204314	CON	2026	Oakland	M-150	Avon to Clinton River and Paint Creek to Tienken	1.464	Reconstruction - No added capacity	Exempt		
204904	CON	2026	Wayne	M-10 S	SB M-10 Exit Ramps	0.754	Wrong Way Driver System	Exempt		
205511	ROW	2026	Monroe	US-23	3 Structures on US-23	0	Bridge Replacement	Exempt		
206554	CON	2026	Macomb	Powell Rd	Powell Road from 32 Mile Road Intersection to 33 Mile Road Intersection	1.127	Mill, HMA Overlay	Exempt		
207517	CON	2026	Monroe	TSCwide	US-24 - Monroe County - Brighton TSC	28.567	Non-Freeway Signing Upgrade	Exempt		
208665	CON	2025	Washtenaw	I-94	Parker to M-14	5.194	Milling and single course overlay	Exempt		
208688	CON	2025	Livingston	Island Lake Rec Area Access	Island Lake Trail, end of existing trail to Fieldcrest, Green Oak Township	4.522	Construct Island Lake Regional Trail	Exempt		
208692	CON	2026	St. Clair	I-94BL	I-94 to M-29	2.653	Concrete pavement repairs	Exempt		
208899	OPS	2025	Livingston	TSC wide	Livingston and Washtenaw Counties	0	Freeway Courtesy Patrol Services	Exempt		
208915	CON	2025	St. Clair	I-69	Allen Road over I-69	0	Deck Replacement	Exempt		
209011	OPS	2025	Wayne	Regionwide	Southeast Michigan Transportation Operations Center - Metro/Bay Region	5.771	Control Room Operations for FY 2025	Exempt		
209012	OPS	2025	Wayne	Regionwide	Southeast Michigan Transportation Operations Center (SEMTOC) - Metro Region	5.175	Freeway Courtesy Patrol (FCP) Operations	Exempt		
209014	EPE	2026	Wayne	Regionwide	Southeast Michigan Transportation Operations Center (SEMTOC) - Metro Region	6.341	SEMTOC Maintenance	Exempt		
209147	CON	2025	Washtenaw	M-14 E	M-14, US-23 in Washtenaw County	15.675	Install ITS Devices	Exempt		
209211	CON	2026	St. Clair	I-69BL EB	32nd Street to I-94 Business Loop	1.959	Concrete pavement repair	Exempt		
209212	PE	2025	St. Clair	M-29	River Road to I-94 Business Loop	4.648	Concrete pavement repair	Exempt		
209212	CON	2025, 2028	St. Clair	I-94BL E	River Road to I-94 Business Loop	4.648	Concrete pavement repair	Exempt		
209614	PE	2025	Saginaw	Regionwide	Trunkline routes in St. Clair County	2.755	Longitudinal pavement marking application on trunklines in Bay Region	Exempt		
209614	CON	2025	Saginaw	Regionwide	Trunkline routes in St. Clair County	2.755	Longitudinal pavement marking application on trunklines in Bay Region	Exempt		
209615	PE	2025	Saginaw	Regionwide	Trunkline routes in St. Clair County	2.101	Special pavement marking application on trunklines in Bay Region	Exempt		
209615	CON	2025	Saginaw	Regionwide	Trunkline routes in St. Clair County	2.101	Special pavement marking application on trunklines in Bay Region	Exempt		
209618	PE	2025	Oakland	Regionwide	All trunkline routes in the Metro Region	0.337	Longitudinal pavement marking application on trunklines in Metro Region	Exempt		
209618	CON	2025	Oakland	Regionwide	All trunkline routes in the Metro Region	0.337	Longitudinal pavement marking application on trunklines in Metro Region	Exempt		
209619	PE	2025	Oakland	Regionwide	All trunkline routes in Metro Region	0.189	Special pavement marking application on trunklines in Metro Region	Exempt		
209619	CON	2025	Oakland	Regionwide	All trunkline routes in Metro Region	0.189	Special pavement marking application on trunklines in Metro Region	Exempt		
209627	PE	2025	Jackson	Regionwide	Trunkline routes in University Region SEMCOG counties	2.708	Longitudinal pavement marking application on University Region trunklines	Exempt		
209627	CON	2025	Jackson	Regionwide	Trunkline routes in University Region SEMCOG counties	2.708	Longitudinal pavement marking application on University Region trunklines	Exempt		

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209628	PE	2025	Jackson	Regionwide	Trunkline routes in University Region SEMCOG counties	2.024	Special pavement marking application on trunklines in University Region	Exempt		
209628	CON	2025	Jackson	Regionwide	Trunkline routes in University Region SEMCOG counties	2.024	Special pavement marking application on trunklines in University Region	Exempt		
209629	CON	2025	Saginaw	Regionwide	All trunkline routes in St. Clair County	3.225	Pavement marking retroreflectivity readings on trunklines in Bay Region	Exempt		
209632	CON	2025	Oakland	Regionwide	All trunkline routes in Metro Region	0.337	Pavement marking retroreflectivity readings on trunklines in Metro Region	Exempt		
209636	CON	2025	Jackson	Regionwide	University Region trunkline routes in SEMCOG counties	3.98	Pavement marking retroreflectivity readings on University Region trunklines	Exempt		
210044	CON	2025	Monroe	I-275	from I-75 to Wayne/Monroe County Line	7.283	Milling and single course overlay	Exempt		
210082	CON	2026	Oakland	M-59	Milford Road to Pontiac Lake Road	9.171	Milling and One Course Asphalt Overlay	Exempt		
210089	CON	2025	Macomb	I-94	13 bridges along I-94 between 8 Mile Road and 11 Mile Road in Macomb Co	0	Substructure repair, Railing replacement, bearing realignment, mesh panels	Exempt		
210111	CON	2026	Oakland	M-150	over GTW Railroad, Clinton River, 1st and 2nd street and over Paint Creek	0	Rehabilitation work	Exempt		
210113	CON	2025	Oakland	M-1	over Stoney Croft Drain	0	Culvert Replacement	Exempt		
210219	CON	2025	Oakland	M-59	M-150 over M-59	0	Substructure Patching, Epoxy Overlay	Exempt		
210758	CON	2025	Oakland	M-5	M-5 at Grand River Ave, Halstead Rd	0	Modernize and retime signalized intersections	Exempt		
210971	ROW	2025	Washtenaw	US-23BR	M-14 EB at Barton Drive	0.75	Provide free-flow on-ramp, improve the Barton Dr. off-ramp.	Exempt		
210971	PE	2025	Washtenaw	US-23BR	M-14 EB at Barton Drive	0.75	Provide free-flow on-ramp, improve the Barton Dr. off-ramp.	Exempt		
210997	PE	2025	Washtenaw	I-94	I-94 from Ann Arbor/Saline Road to US-23; US-23/I-94 interchange	3.343	Construct I-94 flex lane and State Street interchange improvements	Exempt		Check if the construction phase will be in. If so, would be non-exempt.
211089	PES	2025	Monroe	US-24	US-24 over Stony Creek	0	Bridge CPM work	Exempt		
211089	PE	2025	Monroe	US-24	US-24 over Stony Creek	0	Bridge CPM work	Exempt		
211089	CON	2025, 2028	Monroe	US-24	US-24 over Stony Creek	0	Bridge CPM work	Exempt		
211179	ROW	2025	Macomb	M-3 NB	Church St to Canfield Dr	1.478	Reconstruction & Sewer Separation	Exempt		
211179	CON	2026	Macomb	M-3 NB	Church St to Canfield Dr	1.478	Reconstruction & Sewer Separation - No added capacity	Exempt		
211181	PE	2025	Wayne	M-10	Meyers to I-75	9.48	Concrete Pavement Repair	Exempt		
211181	CON	2026	Wayne	M-10	Meyers to I-75	9.48	Concrete Pavement Repair	Exempt		
211875	CON	2025	Wayne	I-75 N CD/M-10 N Ramp	M-10 at Vernor (D04 of 82111) Station ID 880	0.045	Pump Station Rehabilitation	Exempt		
211937	PE	2025	Livingston	Kensington/I-96 W Ramp	Kensington Rd from Larkins Rd to Grand River Ave	0.89	Install roundabouts at the I-96 and Kensington Rd ramp terminals	Exempt		
211982	CON	2025	Oakland	Countywide	Various in Oakland County	0	Modernize signals to current standards	Exempt		
211984	CON	2025	Oakland	M-59	4 signals on M-59 in Oakland Co	0	Modernize signals to current standards	Exempt		
211986	CON	2025	Wayne	Countywide	2 signals in Wayne County	0	Modernize signals to current standards	Exempt		
212162	ROW	2026	Wayne	US-12	5 Signals on US-12 in Wayne Co	0	Modernize signals to current standards	Exempt		
212692	CON	2027	St. Clair	M-29	Belle River to Marine City North City Limits	0.247	Milling and two course asphalt resurfacing	Exempt		
212692	PE	2024, 2028	St. Clair	M-29	Belle River to Marine City North City Limits	0.897	Milling and two course asphalt resurfacing	Exempt		
212757	CON	2025	Oakland	E 13 Mile Rd	13 Mile Rd from Rochester Rd to Campbell Rd	0.7	Road Rehab	Exempt		
212812	CON	2026	Huron	TSCwide	M-25	141.79	Non-Freeway Signing Upgrade	Exempt		
213272	PE	2026	Oakland	Regionwide	All trunkline routes in the Metro Region	20.539	Longitudinal Marking application on trunklines in Metro Region	Exempt		
213272	CON	2026	Oakland	Regionwide	All trunkline routes in the Metro Region	20.539	Longitudinal Marking application on trunklines in Metro Region	Exempt		
213274	PE	2026	Oakland	Regionwide	All trunkline routes in Metro Region	0.282	Special pavement marking application on trunklines in Metro Region	Exempt		
213274	CON	2026	Oakland	Regionwide	All trunkline routes in Metro Region	0.282	Special pavement marking application on trunklines in Metro Region	Exempt		

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213276	PE	2026	Jackson	Regionwide	All Trunkline Routes in University Region	18.254	Longitudinal Pavement Marking Application on Trunkline Routes in University	Exempt		
213276	CON	2026	Jackson	Regionwide	All Trunkline Routes in University Region	18.254	Longitudinal Pavement Marking Application on Trunkline Routes in University	Exempt		
213337	PE	2026	Saginaw	Regionwide	All trunkline routes in St Clair County	3.256	Application of longitudinal pavement markings on trunklines in Bay Region	Exempt		
213337	CON	2026	Saginaw	Regionwide	All trunkline routes in St Clair County	3.256	Application of longitudinal pavement markings on trunklines in Bay Region	Exempt		
213338	PE	2026	Saginaw	Regionwide	All trunkline routes in St Clair County	2.73	Application of special pavement markings on trunklines in Bay Region	Exempt		
213338	CON	2026	Saginaw	Regionwide	All trunkline routes in St Clair County	2.73	Application of special pavement markings on trunklines in Bay Region	Exempt		
213344	PE	2026	Jackson	Regionwide	All trunkline routes in University SEMCOG counties	2.935	Special marking application on University Region trunklines	Exempt		
213344	CON	2026	Jackson	Regionwide	All trunkline routes in University SEMCOG counties	2.935	Special marking application on University Region trunklines	Exempt		
213359	CON	2026	Saginaw	Bay Regionwide Pvmr Mrkg Retro Readings	St. Clair County	23.843	Pvmr mrkg retroreflectivity readings on trunklines in Bay Region	Exempt		
213367	CON	2026	Oakland	Metro Regionwide Pvmr Mrkg Retro Readings	All trunkline routes in Metro Region	7.788	Pvmr mrkg retroreflectivity readings on trunklines in Metro Region	Exempt		
213373	CON	2026	Jackson	University Regionwide Pvmr Mrkg Retro Readings	All of SEMCOG MPO	18.355	Pvmr mrkg retroreflectivity readings on trunklines in University Region	Exempt		
213479	CON	2026	Wayne	US-24	US-24, Pennsylvania to Connector	0.754	Milling & One Course Asphalt Overlay	Exempt		
213485	CON	2026	Washtenaw	US-12	Carpenter Road to I-94	2.073	Mill and asphalt overlay with concrete patches	Exempt		
213488	CON	2027	Monroe	US-23 N	School Road to Ida Center Road	0.207	Road Reconstruction - Single course mill and HMA overlay for ramps and welcome center	Exempt		
213854	CON	2027	Macomb	I-696 E	under EB 11 Mile Road	0	Deck replacement	Exempt		
213881	CON	2027	Macomb	Belanger Ave	Barkman and Belanger over I-696, Macomb County	0	Deck Replacement	Exempt		
213944	CON	2025	Washtenaw	Carpenter Rd	Along Carpenter Road and Ellsworth Road	6.849	Signal optimization, modernization, and actuation Carpenter Rd & Ellsworth	Exempt		
214047	CON	2025	Oakland	US-24	at White Lake Road	0.294	Intersection Improvements	Exempt		
214055	CON	2025	Wayne	I-75 S	I-75 SB at Michigan Ave	0.314	High Friction Surface Treatment	Exempt		
214085	PE	2026	Livingston	I-96 W/Fowlerville Ramp	WB I-96 at Fowlerville Rd and Pinkney Rd/S Michigan Ave	0.328	High Friction Surface Treatment	Exempt		
214085	CON	2026	Livingston	I-96 W/Fowlerville Ramp	WB I-96 at Fowlerville Rd and Pinkney Rd/S Michigan Ave	0.328	High Friction Surface Treatment	Exempt		
214088	PE	2026	Monroe	I-75 N	I-75 from I-275 to S Huron River Dr	5.14	Shoulder corrugations	Exempt		
214088	CON	2026	Monroe	I-75 N	I-75 from I-275 to S Huron River Dr	5.14	Shoulder corrugations	Exempt		
214089	CON	2027	St. Clair	I-94BL W	at Ravenswood Road	0.192	Installation of left turn lanes	Exempt		
214114	ROW	2025	Wayne	M-1	McNichols to S of 8 Mile Rd	2.027	Reconstruction	Exempt		
214116	CON	2026	Wayne	US-12	Pershing to E of Henry Ruff	3.393	Reconstruction and Milling & One Course Asphalt Overlay	Exempt		
214148	PE	2025	Oakland	I-75 Ramps	at Grange Hall Road	0.943	Construct roundabouts	Exempt		
214148	CON	2027	Oakland	Grange Hall/I-75 N Ramp	I-75 ramps at Grange Hall Road	1.65	Construct roundabouts	Exempt		
214177	OPS	2025	Wayne	M-85	Various in Wayne County	10.538	Traffic signal optimization	Exempt		
214186	CON	2026	Oakland	Sleeth Rd	Wixom Rd at Duck Lake Rd/Sleeth Rd	0.024	Roundabout	Exempt		
214187	CON	2025	Washtenaw	I-94	I-94 EB & WB off ramps at Ann Arbor, Saline	0	Modernize signalized intersections	Exempt		
214199	ROW	2025	Washtenaw	TSC-wide	Various Locations - Brighton TSC	0	Modernize signalized intersections	Exempt		
214204	ROW	2026	Oakland	TSC-wide	Various Locations - Oakland TSC	0	Modernize signalized intersections	Exempt		
214269	CON	2025	Wayne	I-75	Four bridges along I-75 in Detroit.	0	Substructure Repair	Exempt		

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
214343	CON	2025	Livingston	E Grand River Ave	Grand River Avenue - Kensington to County Line	1.172	Reconstruct existing roadway	Exempt		
214381	CON	2025	Livingston	Argentine Rd	from W Dean Road to Spaulding Road	0.668	Culvert Replacement and Road Rehabilitation	Exempt		
214393	CON	2026	Livingston	Pinckney Rd	Rush Lake Rd to Swarthout Rd	1.318	Milling and two course overlay asphalt resurfacing	Exempt		
214424	NI	2025	Wayne	Transit Capital	SMART Service Area	0	Transit Capital Activities	Exempt		
214425	NI	2025	Wayne	Transit Capital	SMART Service Area	0	Transit Capital Activities	Exempt		
214431	NI	2026	Wayne	Transit Capital	SMART Service Area	0	Transit Capital Activities	Exempt		
214432	NI	2026	Wayne	Transit Capital	SMART Service Area	0	Transit Capital Activities	Exempt		
214438	NI	2025	Oakland	Transit Operating	SMART Service Area	0	Transit Operating	Exempt		
214441	NI	2025	Oakland	Transit Operating	SMART Service Area	0	Transit Operating	Exempt		
214442	NI	2026	Oakland	Transit Operating	SMART Service Area	0	Transit Operating	Exempt		
214443	NI	2026	Oakland	Transit Operating	SMART Service Area	0	Transit Operating	Exempt		
214448	NI	2025	Monroe	Transit Capital	Lake Erie Transit Service Area	0	Transit Capital Activities	Exempt		
214451	NI	2025	Monroe	Transit Operating	Lake Erie Transit Service Area	0	Transit Operating	Exempt		
214452	NI	2025	Monroe	Transit Capital	Lake Erie Transit Service Area	0	Transit Capital Activities	Exempt		
214453	NI	2026	Monroe	Transit Capital	Lake Erie Transit Service Area	0	Transit Capital Activities	Exempt		
214454	NI	2026	Monroe	Transit Operating	Lake Erie Transit Service Area	0	Transit Operating	Exempt		
214455	NI	2026	Monroe	Transit Capital	Lake Erie Transit Service Area	0	Transit Capital Activities	Exempt		
214501	NI	2025	St. Clair	Transit Operating	Areawide	0	FY 2025 Section 5311 Rural Operating Assistance	Exempt		
214505	NI	2026	St. Clair	Transit Operating	Areawide	0	FY 2026 Section 5311 Rural Operating Assistance	Exempt		
214507	NI	2025	St. Clair	Transit Operating	Areawide	0	FY 2025 BWATC JARC	Exempt		
214508	NI	2026	St. Clair	Transit Operating	Areawide	0	FY 2026 BWATC JARC	Exempt		
214522	PE	2025	Washtenaw	M-153 E	M-153 at Plymouth Rd	0.452	Indirect left turn lanes	Exempt		
214522	CON	2025, 2028	Washtenaw	M-153 E	M-153 at Plymouth Rd	0.452	Indirect left turn lanes	Exempt		

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
214541	CON	2025	St. Clair	Lapeer Ave	Lapeer Ave from 16th to 24th	0.493	Reconstruction, Remove pavement and curb and gutter. Construct new HMA pavement and concrete curb and gutter and sidewalks. No capacity changes.	Exempt		
214549	CON	2025	St. Clair	Lapeer Rd	Lapeer Rd from Michigan to Allen	2.084	Mill and Resurface	Exempt		
214555	EPE	2025	Livingston	Highland/I-96 E Ramp	I-96 at M-59	0.802	Roundabout - Construct 4-leg roundabout at I-96 EB ramp at M-59/Burkhart. Include a WB bypass lane for off-ramp traffic to NB M-59. SB M-59 approach would consist of two lanes.	Exempt		
214555	ROW	2026	Livingston	Highland/I-96 E Ramp	I-96 at M-59	0.802	Roundabout - Construct 4-leg roundabout at I-96 EB ramp at M-59/Burkhart. Include a WB bypass lane for off-ramp traffic to NB M-59. SB M-59 approach would consist of two lanes.	Exempt		
214555	CON	2027	Livingston	Highland/I-96 E Ramp	I-96 at M-59	0.802	Roundabout - Construct 4-leg roundabout at I-96 EB ramp at M-59/Burkhart. Include a WB bypass lane for off-ramp traffic to NB M-59. SB M-59 approach would consist of two lanes.	Exempt		
214556	CON	2025	Washtenaw	S Ann Arbor St	Ann Arbor Street	0.431	Reconstruction with high emphasis continenttal pedestrian crossing, paveemnt reconstruct, water main replacement, lead service line replacements, ADA ramps, sharrows, pavement markings. No capacity changes.	Exempt		
214565	PE	2025	Macomb	I-94 W	I-94 Between M-59 and 21 Mile Road	1.882	Auxiliary Lane Construction along east and westbound I-94, connecting the ramp lanes between M-59 and 21 Mile Road. Additional work includes lengthening the ramp taper from EB M-59 to WB I-94.	Exempt		
214567	CON	2026	Washtenaw	E Ellsworth Rd	Ellsworth Road between Golfside Road and Hewitt Road	0.321	Mill and resurface the existing roadway surface	Exempt		
214568	CON	2026	St. Clair	Fred W Moore Hwy	Henry Rd to 12th St.	0.122	Reconstruction	Exempt		
214576	CON	2026	St. Clair	Church Rd	Church Rd- M-29 to Marine City Highway	2.14	Preventative Maintenance	Exempt		
214597	CON	2025	Washtenaw	N Zeeb Rd	County-wide Preventative Maintenance	0	To be determined	Exempt		
214599	CON	2026	St. Clair	Davis Rd	Davis Rd- Range to M-29	0.821	Preventative Maintenance	Exempt		
214601	CON	2026	St. Clair	Krafft Rd	Krafft from Parker to State	1.001	Reconstruction - Asphalt Rehab and drainage improvements. No capacity changes.	Exempt		
214605	CON	2025	Washtenaw	Nixon Rd	Nixon Road	1.296	Crush and Shape and Asphalt Resurfacing	Exempt		
214608	CON	2026	Washtenaw	N Zeeb Rd	County-wide Preventative Maintenance	0	Location to be determined	Exempt		
214647	PE	2025	Washtenaw	US-23 S	M-14/US-23 W. of East Tri-Level	0.834	Adjust lane assignments - Convert diverge M-14 to center option lane. Includes three new truss signs on M-14.	Exempt		
214647	CON	2025, 2028	Washtenaw	US-23 S	M-14/US-23 W. of East Tri-Level	0.834	Adjust lane assignments - Convert diverge M-14 to center option lane. Includes three new truss signs on M-14.	Exempt		
214657	CON	2025	Washtenaw	Golfside Dr	Golfside Road	0.997	Mill and resurface the existing roadway surface	Exempt		
214658	CON	2025	Washtenaw	N Hewitt Rd	Hewitt Road	0.241	Mill and resurface the existing roadway surface	Exempt		
214666	CON	2025	Washtenaw	Earhart Rd	Earhart Road	1.193	Pulverize and resurface the existing road surface	Exempt		
214667	CON	2025	Washtenaw	W Waters Rd	Waters Road	0.21	Mill and resurface the existing roadway surface	Exempt		
214674	CON	2025	Washtenaw	S 5th Ave	Location will need to decided 2 fiscal years in advance	0.128	Capital preventative maintenance treatments	Exempt		

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
214675	CON	2025	Washtenaw	N Zeeb Rd	County-wide	0.372	Mill and resurface the existing roadway surface	Exempt		
214678	CON	2026	Washtenaw	Plymouth Rd	Plymouth Road	2.122	Mill and resurface the existing roadway surface	Exempt		
214689	CON	2026	Washtenaw	Packard St	Packard Street	0.583	Resurface roadway	Exempt		
214691	CON	2026	Washtenaw	N 5th Ave	To be determined	0.126	Sidewalk gap infill	Exempt		
214692	NI	2025	Wayne	Griswold St	Areawide	0	Transit Capital FY 2025	Exempt		
214693	NI	2026	Wayne	Griswold St	Areawide	0	Transit Capital FY 2026 Section 5307	Exempt		
214695	NI	2025	Wayne	Griswold St	Areawide	0	Transit Capital FY 2025 Section 5337	Exempt		
214696	NI	2026	Wayne	Griswold St	Areawide	0	Transit Capital FY 2026 Section 5337	Exempt		
214698	CON	2026	Washtenaw	N Zeeb Rd	County wide pavement preservation	0.253	Mill and resurface the existing roadway surface	Exempt		
214699	CON	2026	Washtenaw	W Clark Rd	Clark Road	0.589	Mill and resurface the existing roadway surface	Exempt		
214701	CON	2026	Washtenaw	Stony Creek Rd	Stony Creek Road	0.387	Pulverize and resurface the existing road surface	Exempt		
214725	CON	2026	Washtenaw	Nixon Rd	Nixon Road	0.66	Reconstruction of road; watermain and stormwater work; construction of boulevard segments; installation of roundabout at Bluett and Traver as safety and operational improvement; addition of new lighting throughout the corridor; buffered bike lanes. Marked & signed crosswalks and ped islands at various locations. Will coordinate with The Ride to add bus pads if desired. No capacity changes.	Exempt		
214761	NI	2025	St. Clair	Transit Capital	Areawide	0	FY 2025 Section 5339 Capital	Exempt		
214763	NI	2025	St. Clair	Transit Operating	Areawide	0	FY2025 Section 5307 Operating	Exempt		
214764	NI	2026	St. Clair	Transit Operating	Areawide	0	FY2026 Section 5307 Operating	Exempt		
214766	NI	2025	St. Clair	Transit Operating	Areawide	0	FY2025 JARC Operating	Exempt		
214767	NI	2026	St. Clair	Transit Operating	Areawide	0	FY 2026 JARC Operating	Exempt		
214772	NI	2026	St. Clair	Transit Capital	Areawide	0	FY 2026 Section 5339 Transit Capital	Exempt		
214826	CON	2025	Oakland	Auburn Ave	Auburn Ave from Woodward Ave to Opdyke Rd	1.988	Road Rehab	Exempt		
214867	CON	2026	Oakland	Pontiac Trl	Pontiac Trail - 9 Mile Road to CSX Railroad	1.261	Road Rehabilitation - Mill and resurface the existing roadway surface and widened shoulders	Exempt		
214898	CON	2025	Washtenaw	Jackson Rd	Jackson Road	0.991	Mill and resurface the existing roadway surface	Exempt		
214899	CON	2025	Washtenaw	Pauline Blvd	Pauline Boulevard between South Seventh Street to S. Main Street	0.411	Resurface roadway	Exempt		
214921	CON	2025	Washtenaw	N 5th Ave	Various Locations	0	Sidewalk Gap Filling Projects	Exempt		
214924	CON	2026	Washtenaw	Harriet St	Harriet Street First to Hawkins	0.236	Resurface roadway	Exempt		

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
214965	CON	2025	St. Clair	I-94BL	Black River to Glenwood Avenue	0.436	Hot Mix Asphalt Reconstruction, Drainage, Traffic Signals, Sidewalk, On Street Parking. No capacity changes.	Exempt		
214982	NI	2025	Washtenaw	S Industrial Hwy	Areawide	0	Bus Stop Improvements	Exempt		
214986	CON	2026	Washtenaw	Island Lake Rd	Island Lake Road at Dexter-Chelsea Rd	2.157	Signal interconnect for 5 traffic signals and roundabout construction.	Exempt		
214991	NI	2025	Washtenaw	Jennings Rd	Areawide	0	Transit Operating FY25 5310 New Freedom Operating	Exempt		
214993	NI	2025	Washtenaw	Jennings Rd	Areawide	0	Transit Capital FY25 5311-JARC	Exempt		
214994	NI	2025	Washtenaw	Jennings Rd	Areawide	0	Transit Operating FY25 5311-JARC Operating	Exempt		
214996	NI	2025	Washtenaw	Jennings Rd	Areawide	0	One (1) Medium 32 ft Bus w/lift - replacement for 47	Exempt		
214999	NI	2026	Washtenaw	Jennings Rd	Areawide	0	Transit Capital FY26 5311-JARC	Exempt		
215001	NI	2026	Washtenaw	Jennings Rd	Areawide	0	Transit Operating FY26 5311-JARC Operating	Exempt		
215002	NI	2026	Washtenaw	Jennings Rd	Areawide	0	Transit Operating FY26 5310 New Freedom Operating	Exempt		
215003	NI	2026	Washtenaw	Jennings Rd	Areawide	0	One (1) Medium 32 ft Bus w/o lift - replacement for 50	Exempt		
215006	NI	2025	Washtenaw	Jennings Rd	Areawide	0	Transit Capital FY25 5310- New Freedom	Exempt		
215008	NI	2026	Washtenaw	Jennings Rd	Areawide	0	Transit Capital FY26 5310- New Freedom	Exempt		
215012	CON	2026	Washtenaw	Old US 12	from County Line to I-94	3.457	Mill and resurface the existing roadway surface	Exempt		
215013	CON	2025	Washtenaw	E Michigan Ave	North St. to Dexter Street	0.32	Full depth removal of existing HMA pavement. Spot curb removal as required.	Exempt		
215041	NI	2025	Washtenaw	Jackson Rd	Areawide	0	Transit Capital FY25 5310	Exempt		
215042	NI	2025	Washtenaw	Jackson Rd	Areawide	0	Transit Capital FY25 5311-JARC	Exempt		
215043	NI	2025	Washtenaw	Jackson Rd	Areawide	0	Transit Operating FY25 5311-JARC	Exempt		
215044	NI	2026	Washtenaw	Jackson Rd	Areawide	0	Transit Capital FY26 5310	Exempt		
215045	NI	2026	Washtenaw	Jackson Rd	Areawide	0	Transit Capital FY26 5311-JARC	Exempt		
215046	NI	2026	Washtenaw	Jackson Rd	Areawide	0	Transit Operating FY26 5311-JARC	Exempt		
215051	CON	2025	Washtenaw	Nixon Rd	Nixon from Huron Parkway to 200' south of Bluett	0.294	Reconstruction of road; watermain and stormwater work; construction of boulevard segments; installation of roundabout at Sandalwood as a safety improvement; addition of new lighting throughout the corridor; buffered bike lanes. No capacity change.	Exempt		
215054	CON	2026	Wayne	M-10	6 bridges over M-10 from Myers to Webb Avenue	0	Epoxy Overlay, Deck Patching and Miscellaneous Preventative Maintenance	Exempt		
215058	CON	2025	Washtenaw	N 5th Ave	Various Locations City of Ann Arbor	0.064	Capital Preventive Maintenance	Exempt		
215068	CON	2025	Washtenaw	Dexter Pinckney Rd	Dexter Pinkney from McGregor to County line	1.57	Mill and resurface the existing road surface	Exempt		
215075	CON	2026	Washtenaw	Hibbard St	from Village Limits to Hibbard and/or Hibbard from City Road to Dutch Dr.	1.189	Mill and resurface the existing roadway surface	Exempt		
215086	CON	2026	Oakland	E Walton Blvd	Walton Blvd from Baldwin Ave to Joslyn Ave	1.011	Road Rehab	Exempt		
215088	CON	2025	Washtenaw	Harriet St	Harriet from Hawkins to Hamilton	0.202	Reconstruct roadway, add/enhance pedestrian crossings adjacent to school; work with YCUA to replace water mains; storm repair. Potential RRFB at Perry; bumpouts at Hawkins and potentially Burton & Perry. No capacity change.	Exempt		
215093	CON	2026	Oakland	Halsted Rd	Halsted Rd from 12 Mile Rd to 14 Mile Rd	1.996	Road Rehab	Exempt		

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
215094	CON	2026	Oakland	Greenfield Rd	Greenfield Rd from Lincoln Dr to 12 Mile Rd	1.707	Road Rehab	Exempt		
215095	CON	2025	Oakland	John R Rd	John R Rd from Red Run Drain to 14 Mile Rd	1.823	3R (Resurfacing, Restoration and Rehabilitation) Road Project	Exempt		
215096	CON	2026	Washtenaw	S Zeeb Rd	Zeeb at Scio Church	2.427	Construct a single lane roundabout at the existing 4 way stop intersection	Exempt		
215097	NI	2026	Macomb	Malow St	Macomb Countywide	0.161	Traffic Operations Center - Operations	Exempt		
215126	CON	2025	Oakland	W 9 Mile Rd	9 Mile Rd from Greenfield Rd to Cloverlawn St	0.66	Road Rehab	Exempt		
215128	CON	2025	Oakland	W 11 Mile Rd	11 Mile Rd EB from Southfield Rd to East City Limit	0.253	Road Rehab	Exempt		
215131	CON	2025	Oakland	W 13 Mile Rd	13 Mile Rd from M-5 to Haggerty Rd	0.472	Road Rehab	Exempt		
215138	NI	2025	Livingston	Transit Operating	Areawide	0	FY 2025 5307 Transit Urban Operating Assistance	Exempt		
215142	NI	2025	Livingston	Transit Capital	Areawide	0	FY 2025 5307 Transit Urban Preventive Maintenance	Exempt		
215149	CON	2025	Oakland	Hilton	Hilton Rd from 9 Mile Rd to Woodward Heights	0.518	Road Rehab	Exempt		
215152	CON	2025	Oakland	W Park Dr	West Park Dr from 12 Mile Rd to West Rd	0.956	Road Rehab	Exempt		
215155	CON	2025	Oakland	W Park Dr	West Park Dr from West Rd to Pontiac Trail	1.413	Road Rehab	Exempt		
215158	CON	2025	Oakland	W 10 Mile Rd	10 Mile Rd from Telegraph Rd to Lahser Rd	1.06	Road Rehab	Exempt		
215168	CON	2025	Oakland	Novi Rd	Novi Rd from 8 Mile Rd to 9 Mile Rd	0.984	Road Rehab	Exempt		
215169	CON	2025	Oakland	Orchard Lake Rd	Orchard Lake Rd from 12 Mile Rd to 13 Mile Rd	1.006	Road Rehab	Exempt		
215175	CON	2025	Oakland	E Maple Rd	Maple Rd from Eton St to Coolidge Rd	0.52	Road Rehab	Exempt		
215177	NI	2025	Livingston	Transit Capital	Areawide	0	FY 2025 5307 Capital Software Purchase	Exempt		
215179	CON	2025	Oakland	Orchard Lake Rd	Orchard Lake Rd from Will-O-Way Ln to Long Lake Rd	1.333	Road Rehab	Exempt		
215181	NI	2025	Livingston	Transit Capital	Areawide	0	FY 2025 5339 Bus Replacement	Exempt		
215182	NI	2025	Livingston	Transit Capital	Areawide	0	FY 2025 5339 Facility Rehab/Renovate	Exempt		
215184	NI	2025	Livingston	Transit Capital	Areawide	0	FY 2025 STUL Van Replacement	Exempt		
215185	NI	2026	Livingston	Transit Operating	Areawide	0	FY 2026 5307 Transit Urban Operating Assistance	Exempt		
215186	NI	2026	Livingston	Transit Capital	Areawide	0	FY 2026 5307 Transit Urban Preventive Maintenance	Exempt		
215188	NI	2026	Livingston	Transit Capital	Areawide	0	FY 2026 5307 Capital Software Purchase	Exempt		
215189	NI	2026	Livingston	Transit Capital	Areawide	0	FY 2026 5339 Bus Replacement	Exempt		
215191	NI	2026	Livingston	Transit Capital	Areawide	0	FY 2026 5339 Facility Rehab/Renovate	Exempt		

Job Number	Phase	Fiscal Year	County	Project Name	Limits	Length	Project Work Description	Air Quality	First Model Year	Notes to IAWG
215192	NI	2026	Livingston	Transit Capital	Areawide	0	FY 2026 STUL Van Replacement	Exempt		
215199	CON	2026	Livingston	Whitmore Lake Rd	Whitmore Lake Road at Winans Lake Road	1.084	Roundabout construction	Exempt		
215207	CON	2026	St. Clair	Krafft Rd	Krafft Road at State Road	0.861	Construct roundabout at Krafft Road and State Road intersection	Exempt		
215208	CON	2025	St. Clair	Bordman Rd	from Memphis City Limits to Wales Ridge	1.118	Mill and Resurface	Exempt		
215212	CON	2025	St. Clair	Riley Center Rd	from Bordman Rd to Burt Rd	6.148	Mill and Resurface	Exempt		
215216	CON	2025	St. Clair	Wildcat Rd	from M-136 to McIntrye	1.404	Mill and Resurface	Exempt		
215221	CON	2026	St. Clair	Rattle Run Rd	from Wadhams to Wale Center	7.168	Mill and Resurface	Exempt		
215224	NI	2026	Washtenaw	Transit Capital	Areawide	0	FY26 STU Transit Capital - Bus Stop Improvements	Exempt		
215226	CON	2026	Monroe	Grafton Rd	Grafton Road at Airport High School Drive	0.371	Construct left-turn lane	Exempt		
215255	CON	2025	Macomb	Malow St	Countywide - Throughout Macomb County	0.161	Automated Traffic Signal Performance Measures (ATSPM) Detection	Exempt		
215257	CON	2025	Macomb	Malow St	Countywide throughout Macomb County	0.161	Automated Traffic Signal Performance Measures (ATSPM) Detection	Exempt		
215259	CON	2025	Washtenaw	N Zeeb Rd	Dixboro Rd, Huron River Dr, Hewitt Rd, Michigan Ave	0.119	Signal optimization, modernization, and actuation for 15 traffic signals	Exempt		
215264	CON	2025	Wayne	20th St	Mt. Elliott, Mound Road and Schaefer Rd	0.197	Signal retiming, interconnect and actuation	Exempt		
215271	CON	2025	Oakland	S Campus Dr	Oakland County - Countywide	0.216	Traffic Signal Interconnect and CCTV Camera Installation	Exempt		
215272	CON	2026	Macomb	Malow St	Countywide throughout Macomb County	0.161	Automated Traffic Signal Detection, Communication, Roadside Units and CCTV	Exempt		
215274	CON	2026	Wayne	19th St	Joy Rd Corridor and Vernor Corridor	0.028	Traffic Signal Modernization, Optimization, and Interconnect with TMC	Exempt		
215278	CON	2026	Washtenaw	N Zeeb Rd	Huron Rd, Textile Rd, Bridge Rd, Grove Rd	0.119	Signal optimization, modernization, and actuation for 13 traffic signals.	Exempt		
215287	NI	2025	Washtenaw	S Industrial Hwy	AAATA Service Area	0	Low-Emission Replacement Buses	Exempt		
215288	NI	2025	Wayne	Griswold St	SMART Service Area	0	SMART Bus Replacement	Exempt		
215289	NI	2025	Wayne	Woodward Ave	Areawide	0	FY26 Commuter Connect	Exempt		
215291	NI	2026	Washtenaw	S Industrial Hwy	AAATA Service Area	0	Low-Emission Replacement Buses	Exempt		
215292	NI	2026	St. Clair	Transit Capital	Areawide	0	FY26 CMAQ Bus Replacement	Exempt		
215294	NI	2026	Wayne	Griswold St	SMART Service Area	0	Bus Replacement	Exempt		
215295	NI	2026	Wayne	Woodward Ave	Areawide	0	SEMGOG Commuter Connect	Exempt		

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215299	NI	2025	Wayne	Abbott St	City of Detroit	0	Operation and Maintenance of City of Detroit Traffic Management Center	Exempt		
215301	NI	2025	Oakland	N Campus Dr	TOC for RCOC	0.157	FY25 TOC Operations and Maintenance	Exempt		
215302	NI	2025	Macomb	Malow St	Macomb Countywide	0.161	Traffic Operations Center - Operations	Exempt		
215303	NI	2026	Oakland	N Campus Dr	TOC for RCOC	0.157	FY26 TOC Operations and Maintenance	Exempt		
215305	NI	2026	Wayne	Abbott St	Citywide	0	Operation and Maintenance of City of Detroit's Traffic Management Center	Exempt		
215343	NI	2026	Monroe	W 7th St	Lake Erie Transit service area	0	Lake Erie Transit Bus Storage and Maintenance Facility in Monroe	Exempt		
215424	NI	2025	Wayne	Woodward Ave	SEMCOG Region	0	FY2026 Ozone Education	Exempt		
215425	NI	2026	Wayne	Woodward Ave	SEMCOG Region	0	FY2027 Ozone Education	Exempt		
215542	CON	2026	Wayne	US-24	US-24 over Conrail	0	Bridge Barrier replacement, epoxy overlay, substructure repairs	Exempt		
215927	NI	2025	Wayne	MichiVan	Areawide	0	FY2026 MichiVan program using FY2025 funds	Exempt		
215939	NI	2026	Wayne	MichiVan	Areawide	0	FY2027 MichiVan program using FY2026 funds	Exempt		
215951	NI	2025	Wayne	Griswold St	Areawide	0	Transit Capital FY 2025 Section 5310	Exempt		
215953	NI	2026	Wayne	Griswold St	Areawide	0	Transit Capital FY 2026 Section 5310.	Exempt		
216579	CON	2025	Wayne	Dexter Ave	Traffic Signal upgrade at selected locations-City wide	0	Upgrading of traffic signals	Exempt		
216581	CON	2026	Wayne	Wyoming St	Traffic Signal upgrade at selected locations-City wide	0	Upgrading of traffic signals	Exempt		
216583	CON	2025	Wayne	14th St	Installation of pavement markings-City wide	0	Installation of pavement markings-City wide	Exempt		
216584	CON	2026	Wayne	Martin St	Installation of pavement markings-City wide	0	Installation of pavement markings-City wide	Exempt		
217004	CON	2025	Wayne	Glendale St	Glendale Ave	0.519	Road Rehabilitation	Exempt		
217056	CON	2025	Wayne	Saint Clair Ave	Saint Clair Ave	0.304	Road Rehabilitation	Exempt		
217076	CON	2025	Wayne	Mercury Dr	Mercury Dr	1.044	Road Rehabilitation	Exempt		
217084	CON	2025	Wayne	Vreeland Rd	Vreeland Rd	0.447	Road Reconstruction-Remove existing 9" Reinforced conc pavement. Replace with 10" plain conc, three ft asphalt shoulders, two ft agg shoulders, and misc drainage. No capacity change.	Exempt		
217105	CON	2025	Wayne	Champaign Rd	Champaign Ave	0.592	HMA Resurfacing	Exempt		
217107	CON	2025	Wayne	Ozga Rd	Ozga Rd	1.5	Road Rehabilitation	Exempt		
217121	ROW	2025	Wayne	I-94 W	Various locations adjacent to the I-94 Mega Project	0	I-94 Drainage agreement to create a resilient drainage system	Exempt		
217121	PE	2025	Wayne	I-94 W	Various locations adjacent to the I-94 Mega Project	0	I-94 Drainage agreement to create a resilient drainage system	Exempt		
217121	CON	2026	Wayne	I-94 W	Various locations adjacent to the I-94 Mega Project	0	I-94 Drainage agreement to create a resilient drainage system	Exempt		
217215	CON	2025	St. Clair	I-94BL	I-94 BL over Black River	0	Miscellaneous Bridge CPM	Exempt		
217336	CON	2025	Wayne	I-94	Beech Daly Rd to Pelham Rd	3.145	Concrete Pavement Repair	Exempt		
217341	CON	2025	Livingston	I-96	US-23 to Kent Lake Rd	4.492	Milling and One Course Asphalt Overlay	Exempt		
217483	CON	2025	Monroe	US-24	US-24 Yargerville Rd to Southpointe Parkway	2.588	Mill and single course overlay	Exempt		
217491	CON	2025	Monroe	US-24	Hurd Rd to M-125	1.282	Mill and Single Course Overlay	Exempt		
217633	PES	2028	Washtenaw	I-94 E/I 94 BL Ramp	I-94 over I-94 BL and Jackson Ave WB over I-94 Ramp	0	Epoxy overlay, Bearing Replacements	Exempt		

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217633	PE	2028	Washtenaw	I-94 E/I 94 BL Ramp	I-94 over I-94 BL and Jackson Ave WB over I-94 Ramp	0	Epoxy overlay, Bearing Replacements	Exempt		
217633	CON	2029	Washtenaw	I-94 E	I-94 over I-94 BL and Jackson Ave WB over I-94 Ramp	0	Epoxy overlay, Bearing Replacements	Exempt		
217655	CON	2026	Macomb	15 Mile Rd	15 Mile Road from Van Dyke Ave to Mound Road	0.968	Road rehabilitation	Exempt		
217656	CON	2026	Macomb	15 Mile Rd	15 Mile Road from Van Dyke to Mustang Dr.	1.293	Mill, base repair and overlay	Exempt		
217659	CON	2026	Macomb	Jefferson Ave	Jefferson Road from South River Road to Metropolitan Parkway	0.957	Mill, Base Repair, Overlay	Exempt		
217662	CON	2025	Macomb	13 Mile Rd	13 Mile Road from Gratiot Avenue to Eastern City limits of Roseville	0.772	Road Rehabilitation	Exempt		
217673	CON	2025	St. Clair	M-29	Palms Road to Algonac WVL	6.493	One Course HMA Overlay	Exempt		
217685	CON	2025	Macomb	14 Mile Rd	14 Mile Road from Van Dyke Avenue east to Hoover Road intersection	1.304	Road Rehabilitation	Exempt		
217691	CON	2025	Macomb	N River Rd	North River Road from boundary Mt. Clemens and Harrison to Bridgeview	1.997	Road Rehabilitation	Exempt		
217693	CON	2025	Macomb	Hayes 250 ft and Utica Rd and Hayes to 16 Mile	Hayes Rd from River Ln-south to Utica-Utica Rd to 16 Mile-east in Millar	0.443	Road Rehabilitation & Bridge Deck Rehabilitation structures (#6248 & #6255)	Exempt		
217701	CON	2025	Macomb	17 Mile Rd	17 Mile Road from Mound Road to Van Dyke (M-53)	0.983	Road Rehabilitation	Exempt		
217867	CON	2026	Macomb	M-3	Wellington Crescent to Sandpiper	2.222	Milling & One Course Asphalt Overlay	Exempt		
217892	OPS	2026	Wayne	Regionwide	Southeast Michigan Transportation Operations Center (SEMTOC) - Metro Region	3.301	Safety Service Patrol (SSP) Operations	Exempt		
218086	CON	2025	Wayne	Dix Ave	Toledo Rd (Goddard Rd - I-75 Freeway)	1.632	HMA Resurfacing	Exempt		
218087	CON	2025	Wayne	Merriman Rd	Merriman Rd (E. N. Hines Ramp - Joy)	1.005	HMA Resurfacing	Exempt		
218103	CON	2025	Wayne	Inkster Rd	Inkster Rd (West Chicago - Schoolcraft)	1.458	HMA Resurfacing	Exempt		
218105	CON	2025	Wayne	Northline Rd	North Line (Telegraph(US-24) - Racho)	1.018	HMA Resurfacing	Exempt		
218106	CON	2025	Wayne	Middle Belt Rd	Middle Belt (Ford(M-153) - Warren)	0.993	HMA Resurfacing	Exempt		
218107	CON	2025	Wayne	Eureka Rd	Eureka Rd (Allen - Toledo)	0.89	HMA Resurfacing	Exempt		
218112	CON	2025	Wayne	W Warren Ave	Warren Rd (Greenfield - Shaefer)	0.994	HMA Resurfacing	Exempt		
218114	CON	2025	Wayne	Middle Belt Rd	Middle Belt Rd (Joy - Plymouth(OM-14))	0.998	HMA Resurfacing	Exempt		
218175	CON	2025	Oakland	N Paddock	Paddock Street, Str #8265, over the Clinton River, City of Pontiac	0	Bridge Capital Preventative Maintenance	Exempt		
218176	CON	2025	Oakland	East Blvd N	Martin Luther King, Str #8268, over the Clinton River, City of Pontiac	0	Bridge Capital Preventative Maintenance	Exempt		
218177	CON	2025	Wayne	W Lafayette Blvd	Lafayette Street, Str #12363, over Conrail, City of Detroit, Wayne County	0	Bridge Capital Preventative Maintenance	Exempt		
218178	CON	2025	Wayne	Rosa Parks Blvd	Twelfth Street, Str #12370, over Conrail, City of Detroit, Wayne County	0	Bridge Capital Preventative Maintenance	Exempt		
218179	CON	2025	St. Clair	Countywide	Various Locations - St. Clair County	0	Bridge Capital Preventative Maintenance	Exempt		
218181	CON	2025	Wayne	E Larned Street / Lafayette Street	Larned St, Str #12380 & Lafayette St, Str #12381, over Dequindre Cut Greenway	0	Bridge Capital Preventative Maintenance	Exempt		
218182	CON	2025	Macomb	Hicks Rd / Bates Rd	Hicks Rd, Str #6299, over Coon Creek & Bates Rd Str #6339, over Deer Creek	0	Bridge Capital Preventative Maintenance Work	Exempt		
218183	CON	2025	Macomb	Callens Rd	Callens Road, Str #6283, over Fish Creek, Macomb County	0	Bridge Capital Preventative Maintenance	Exempt		
218185	CON	2025	Wayne	Rural Hill Dr	Rural Hill Drive, Str #12511, over Johnson Drain, City of Northville	0	Bridge Rehabilitation	Exempt		
218186	CON	2025	St. Clair	Yale Rd	Yale Road, Str #10075, over the S. Branch of Mill Creek, St. Clair County	0	Bridge Rehabilitation	Exempt		
218187	CON	2025	Macomb	Division Rd	32 Mile Road, Str #6230, over Highbank Creek, Macomb County	0	Bridge Rehabilitation	Exempt		
218188	CON	2025	Wayne	Island Dr	Horse Island Drive, Str #12495, over Horse Island & Adams Bayou, Gibraltar	0	Bridge Replacement	Exempt		

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218189	CON	2025	St. Clair	Frith Rd	Frith Road, Str #10224, over Smiths Creek, St. Clair County	0	Bridge Replacement	Exempt		
218191	CON	2025	Oakland	12 Mile Rd	Twelve Mile Road, Str #8200, over Novi-Lyon Drain, Oakland County	0	Bridge Replacement	Exempt		
218192	CON	2025	St. Clair	Arnold Rd	Arnold Road, Str #10184 over Unnamed Creek, St. Clair County	0	Bridge Replacement	Exempt		
218193	CON	2025	Macomb	34 Mile Rd	34 Mile Road, Str #14319, over Highbank Creek, Macomb County	0	Bridge Replacement	Exempt		
218195	CON	2025	Macomb	North Ave	North Avenue, Str #6266, over the E Br Coon Creek, Macomb County	0	Bridge Replacement	Exempt		
218251	CON	2025	Livingston	Rickett Rd	Rickett Road, Str #5862, over the Huron River, Livingston County	0	Bridge Rehabilitation	Exempt		
218258	CON	2025	Washtenaw	Sharon Valley Rd	Sharon Valley Road, Str #11038, over the Raisin River, Washtenaw County	0	Bridge Replacement	Exempt		
218337	PE	2026	Washtenaw	M-14 W	TSC areawide	12.238	TSC areawide - M-14 Freeway Signing Engineering, Design and Upgrade	Exempt		
218349	CON	2025	Macomb	I-696	EB 11 Mile Road Ramp to I-696 Over I-696	0	Repair Horizontal Bracing	Exempt		
218356	CON	2025	Macomb	I-94 E	I-94 Over 13 Mile Road	0	Rocker Bearing Realignment.	Exempt		
218436	CON	2025	Macomb	Dobry Dr	Dobry Drive, a service road for M-59, from Deguindre Road to Utica Road.	2.573	New Construction of Non-Motorized Pathway	Exempt		
218442	CON	2025	Oakland	Greenfield Rd	Greenfield Rd, 12 Mile Rd to 13 Mile Rd	1.003	3R Road Project	Exempt		
218443	CON	2026	Oakland	W 13 Mile Rd	13 Mile Rd, Southfield Rd to Greenfield Rd	1	3R Road Project	Exempt		
218444	CON	2026	Oakland	John R Rd	John R Rd, 11 Mile Rd to n/o 12 Mile Rd	1.317	3R Road Project	Exempt		
218445	CON	2026	Oakland	Rochester Rd	Rochester Rd, 13 Mile Rd to 14 Mile Rd	1.016	3R Road Project	Exempt		
218446	CON	2026	Oakland	W 12 Mile Rd	12 Mile Rd, Meadowbrook Rd to Farmington Rd	7.564	3R Road Project	Exempt		
218447	CON	2026	Oakland	W 12 Mile Rd	12 Mile Rd, Orchard Lake Rd to Middlebelt Rd	0.999	3R Road Project	Exempt		
218448	CON	2026	Oakland	Pontiac Lake Rd	Pontiac Lake Rd, Margie Dr to Kingston St	0.802	Pave Gravel	Exempt	2030	
218452	CON	2026	Oakland	Orchard Lake Rd	Orchard Lake Rd, 200' n/o Maple Rd to Will-O-Way Ln	1.407	3R Road Project	Exempt		
218535	ROW	2028	Wayne	M-1	4 Locations on M-1 (Woodward)	0	Modernize signalized intersections	Exempt		
218535	PE	2028	Wayne	M-1	4 Locations on M-1 (Woodward)	0	Modernize signalized intersections	Exempt		
218535	CON	2028	Wayne	M-1	4 Locations on M-1 (Woodward)	0	Modernize signalized intersections	Exempt		
218641	CON	2026	Macomb	M-29	M-29 (23 Mile Road) over I-94	0.54	Construct pedestrian pathway	Exempt		
218689	CON	2026	Wayne	I-94 E	I-94 from Beech Daly to Oakwood	5.41	Construct Cable Median Barrier	Exempt		
218709	PE	2026	Oakland	Southfield Rd	Regionwide	0	Install Freeway Delineation	Exempt		
218709	CON	2026, 2028	Oakland	Southfield Rd	Regionwide	0	Install Freeway Delineation	Exempt		
218711	PE	2026, 2028	Macomb	I-75 S	Regionwide	1.751	High Friction Surface Treatment	Exempt		
218711	CON	2026, 2028	Macomb	I-75 N	Regionwide	1.751	High Friction Surface Treatment	Exempt		
218729	OPS	2026	Livingston	TSC Wide	University Region, Livingston and Washtenaw Counties	0	Freeway Courtesy Patrol	Exempt		
218799	EPE	2025	Oakland	Southfield Rd	Metro Region	0	Technical Support	Exempt		
218801	EPE	2026	Oakland	Southfield Rd	Metro Region	0	Technical Support	Exempt		
218968	CON	2025	Macomb	21 Mile Rd	Structure 6206, 21 Mile Road over Gloed Drain	0	Bridge Replacement	Exempt		
219042	CON	2025	Macomb	Klein Rd	Klein Rd from Utica Rd to Garfield Rd	0.271	Road Rehabilitation	Exempt		
219047	CON	2025	Washtenaw	S State Rd	State Street from Morgan Road south to Textile Road	1.013	SEMCOG: State Road Corridor Non-Motorized Improvements	Exempt		
219052	CON	2025, 2026	Macomb	E 14 Mile Rd	14 Mile Rd from Kelly Rd to Gratiot Ave	1.041	Rehabilitation	Exempt		
219053	CON	2025	Macomb	Hubbard Ave	Hubbard Ave from CN RR to North Ave	0.449	Road Rehabilitation	Exempt		

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219054	CON	2025	Macomb	Greater Mack Ave	Greater Mack Ave from 12 Mile to 13 Mile Rd	0.971	Road Rehabilitation	Exempt		
219055	CON	2025	Macomb	Stephens Rd	Stephens St from Van Dyke Ave to Hoover Rd	1.066	Road Rehabilitation	Exempt		
219057	CON	2026	Macomb	Hayes Ave	Hayes Avenue from Stephens Drive to 10 Mile Rd	0.511	Road Rehabilitation	Exempt		
219058	CON	2026	Macomb	Little Mack Ave	Little Mack Avenue from Gratiot Ave to Masonic Blvd	0.38	Road Rehabilitation	Exempt		
219102	CON	2025	Oakland	W 10 Mile Rd	10 Mile Rd at Berg Rd	0	Traffic Signal Modernization	Exempt		
219103	CON	2026	Oakland	W 12 Mile Rd	12 Mile Road at Orchard Lake Road	0	Traffic Signal Modernization	Exempt		
219106	CON	2026	Oakland	N Lafayette St	3 Signals on Pontiac Trail at 10 Mile, McHattie, Reynold Sweet	0	Traffic Signal Modernization	Exempt		
219147	CON	2026	Washtenaw	W Washington St	W Washington St from 1st St to S Revena Blvd; S Revena Blvd from W Washingt	0.817	Washington St Bike Boulevard	Exempt		
219148	CON	2025	Washtenaw	N Parker Rd	Parker Road at Shield Road	1.436	Installation of a traffic signal at all-way stop controlled intersection.	Exempt		
219149	CON	2026	Washtenaw	Pontiac Trl	Pontiac Trail at Dixboro Road	1.871	Construction of a roundabout at Pontiac Trail and Dixboro Road intersection	Exempt		
219151	CON	2026	Washtenaw	Whittaker Rd	Whittaker Road at Martz Road	1.716	Construction of a roundabout at Whittaker Road at Martz Road intersection	Exempt		
219152	CON	2026	Washtenaw	Huron River Dr	Mast Rd at Huron River Drive and at Joy Rd	1.118	Construction of a roundabout at Mast Rd and Huron River Dr and at Joy Rd in	Exempt		
219166	CON	2025	Washtenaw	Saline River Dr	Mill Pond Park Riverwalk	0	Mill Pond Park Riverwalk	Exempt		
219211	CON	2025	Wayne	S Wayne Rd	Citywide	0.001	LED Streetlight Conversion	Exempt		
50RTP-001	CON	2026	Macomb	24 Mile Rd	24 Mile Rd bridge over Newland Drain to 24 Mile Rd bridge over Newland Drain	0.07	Reconstruct bridge.	Exempt		
50RTP-007	CON	2025	St. Clair	Gratiot Road	Countyline Rd to Mayer Rd	7	Reconstruct Road	Exempt		
50RTP-009	CON	2027-2030	Macomb	Dequindre Rd	8 Mile Rd to 14 Mile Rd	6.04	Reconstruct road.	Exempt		
50RTP-010	CON	2027-2030	Macomb	Mound Rd	8 Mile Rd to 11 Mile Rd	2.98	Reconstruct road.	Exempt		
50RTP-018	CON	2025	Macomb	33 Mile Rd	33 Mile Rd bridge over North Branch Clinton River to 33 Mile Rd bridge over North Branch Clinton River	0.07	Replace bridge.	Exempt		
50RTP-019	CON	2027-2030	St. Clair	Gratiot Rd	Mayer Rd to I-94	6.5	Road Reconstruct	Exempt		
50RTP-020	CON	2031-2040	St. Clair	Kilgore Rd	Lapeer Rd to M-136	5	Road Reconstruct	Exempt		
50RTP-021	CON	2025	St. Clair	Krafft Rd	Gratiot Ave to Campbell Rd	4	Road Reconstruct	Exempt		
50RTP-022	CON	2031-2040	St. Clair	Marine City Highway	Mayer Rd to King Rd	5	Road Reconstruct	Exempt		
50RTP-023	CON	2025	St. Clair	Wadhams Rd	I-94 to Fred Moore Highway	3	Road Reconstruct	Exempt		
50RTP-024	CON	2025	St. Clair	Wales Center Rd	Lapeer Rd to Rattle Run Rd	7	Road Reconstruct	Exempt		
50RTP-025	CON	2031-2040	St. Clair	Yale Rd	Cork Rd to Cribbons Rd	6	Road Reconstruct	Exempt		
50RTP-031	CON	2027-2030	Wayne	Eureka Rd	Middle Belt Rd to Inkster Rd	1	Concrete Inlay and Signal Modernizations	Exempt		
50RTP-032	CON	2031-2040	Washtenaw	Ann Arbor Train Station	Fuller Road to E. Medical Center	0.027288	Construct new passenger train station	Exempt		
50RTP-033	CON	2031-2040	Washtenaw	Treeline Urban Trail	Main St. to State and Stimson	2.59	Construct new shared use trail	Exempt		
50RTP-034	CON	2041-2050	Macomb	26 Mile Rd; Hayes Rd	26 Mile Rd to Hayes Rd	0.05	Improve intersection operations.	Exempt		
50RTP-035	CON	2041-2050	Macomb	27 Mile Rd; Romeo Plank Rd	27 Mile Rd to Romeo Plank Rd	0.05	Improve intersection operations.	Exempt		
50RTP-048	CON	2027-2030	Washtenaw	State St	Ellsworth to Oakbrook	1.2	Reconstruct roadway; add bike and pedestrian facilities; tranist signature service cooridor	Exempt		2030TIP - added after IAWG call
50RTP-049	CON	2025-2034	Regional	Detroit Intermodal Freight Terminal (DIET)	Various locations in SW Detroit	0.0	Intermodal facility	Exempt		45RTP-139 - added after IAWG call

*Note: The changes made after Aug-21 IAWG call is either in red (based on new information we received) or highlighted in yellow (for added projects)