



Contents

*Congestion Management Process - Dec2024

Introduction

Following enactment of the Safe Accountable Flexible Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) in 2005, a Congestion Management Process (CMP) is required of regional agencies to effectively plan for managing roadway congestion, now and in the future. This data-driven, performance-based approach is required for all metropolitan areas with a population of 200,000 or greater, known as Transportation Management Areas (TMAs). In short, a CMP considers congestion and its causes within a region, then identifies possible remedies in a comprehensive approach.

A CMP is made up of several elements that are performed in a continuous and ongoing process. This process begins with the identification of broad regional objectives that relate to transportation system performance and congestion, which ties back to the IIJA/BIL Planning Factor, "Promote efficient system management and operation." The process then repeats itself as the transportation system is continuously monitored and regional objectives are reassessed. In the Knoxville region, this typically occurs in concert with each 4-year update of the Mobility Plan.

Specific methods and approaches for CMPs are outlined in federal requirements and are left to agencies to develop and integrate in the ways that best fit a specific region. The Federal Highway Administration (FHWA) emphasizes that an effective CMP should identify congested locations and causes of congestion; develop strategies to mitigate congestion along with an evaluation of those potential strategies; propose alternative strategies that best address the causes and impacts of congestion; and track and evaluate the impact of previously implemented CMP strategies. FHWA considers the CMP an 8-step process, as shown below and described in the remainder of this document.

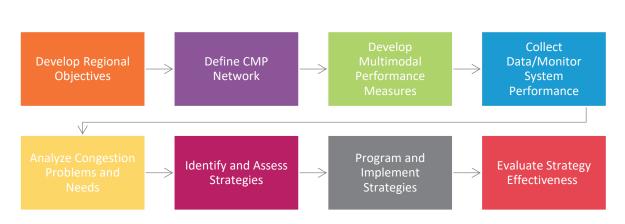


Figure 1. 8-Step Congestion Management Process

Step 1: Develop Regional Objectives

The first step in the CMP is to develop a series of regional objectives that are consistent with the overall goals of the TPO's Mobility Plan. These objectives help to first identify how the TPO wants to address congestion across the region and then establish a data-driven process for doing so. The TPO has eight regional goals that guide its planning processes, three of which directly relate to the CMP. These three goals, outlined below, highlight the desire of the TPO to manage urban congestion by providing more travel options, improving safety for all roadway users, and maximizing the efficiency of the current roadway system.

- More Options In an effort to reduce the number of single-occupant vehicles (SOVs) on the road and provide options for residents who, by choice or need, do not have access to a vehicle, the TPO strives to improve access to services and employment with transit, bicycle, and pedestrian projects.
- Safety and Security Knowing that safety incidents are not only a threat to our quality of life, but are also a source of nonrecurring congestion, the TPO is committed to reducing rates of crashes with serious injuries and fatalities and reducing the region's vulnerability to incidents and threats.
- Congestion Reduction With the diminishing financial and physical feasibility of continuously widening roadways to address congestion, the TPO prioritizes ways to use our system more efficiently through technology like traffic signal coordination, real-time traffic information, and emergency response.

All eight regional goals, including these three, were reviewed and ranked during the first round of public and stakeholder engagement. From that process, it was determined that improving safety and security was ranked as the top priority for small/local projects and 2nd highest priority for the large/regional projects whereas reducing congestion was the top priority for large/regional projects and and 2nd highest for small/local projects. Providing more options was found to be less of a priority with that goal being ranked sixth and eighth for the small/local and large/regional project types respectively. To complement these goals, a series of objectives were developed in previous versions of the Mobility Plan process dating as far back as the Mobility Plan 2040 and still hold true today.

Table 1 lists the objectives directly supporting the CMP as well as the corresponding performancemeasures further detailed in Step 3.

Table 1. Mobility Plan Goals and Related CMP Objectives

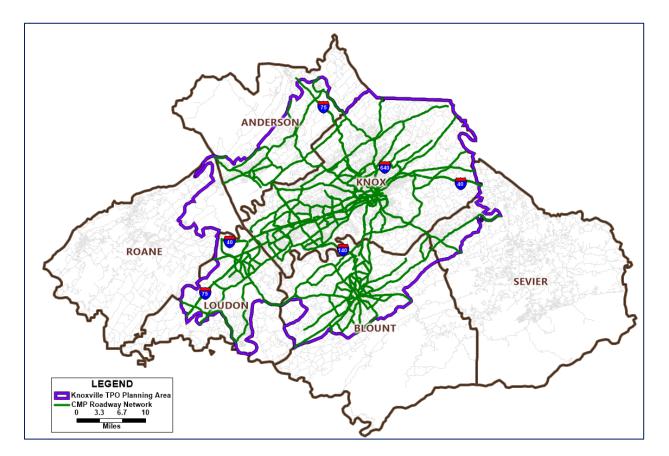
| IIJA/BIL PLANNING FACTORS | | DBILITY N GOALS | RELATED CMP OBJECTIVES | CMP PERFORMANCE MEASURES |
|----------------------------------|-------------------------|---|--|---|
| ACCESSIBILITY AND MOBILITY | More Options | Improve access to services and employment with transit, bicycle and pedestrian projects | Promote projects that improve multimodal connections. Enhance connections between activity centers through accet to transit, pedestrian and bicycle facilities. Assist in developing and implementing municipal bicycle and pedestrian plans. | Number of Multimodal Facilities (Sidewalks, Bikeways, and Transit) |
| SAFETY SECURITY | Safety and Security | Reduce rates of crashes with serious injuries and fatalities. Reduce the region's vulnerability to incidents and threats | Work with partners t develop strategic transportation safety plans for the region. Incorporate safety issues identified in roadway/highway safety plans into the planning process. Support projects and programs that focus on safety of vulnerab road users in the region Work with partners t integrate complete streets planning | High-Injury Network (HIN) project implementation |
| SYSTEM EFFICIENCY | Congestion Reduction | Use our system more efficiently through technology like traffic signal coordination, real-time traffic information, and emergency response vehicles | Promote efforts that encourage transportation alternatives to single occupancy vehicle travel. Continue to invest in regional ITS and TSM efforts. Ensure proper consideration of appropriate congestion mitigation strategies in the project development and implementation process. | V/C Ratio Level of Travel Time Reliability (LOTTR) Travel Time Index (TTI) Bottleneck Identification |

The importance and role of each objective was emphasized throughout the development of the Mobility Plan 2050 update, which relied heavily on the fairly recent updates of the CMP and Regional ITS Architecture update that were completed during the Mobility Plan 2045 process and stakeholder engagement. During the major ITS Architecture update performed for the previous Mobility Plan and knowing that there was significant overlap between CMP and ITS stakeholders and the objectives of both efforts, the TPO created a single committee to provide input on both. This committee was composed of representatives from police and fire departments, public works and engineering departments, transit agencies, bicycle and pedestrian coordinators, travel demand management (TDM) program administrators, TDOT, and others from the TPO and each of its member jurisdictions.

This version of the CMP includes updated data analysis to leverage data sources such as the updated TPO regional travel demand forecasting model and the latest tools and information available from "big data" platforms such as the INRIX Probe Data Analytics and National Performance Research Data Set (NPMRDS) available through the Regional Integrated Transportation Information System (RITIS) platform. In this way, the TPO is able to continuously monitor congestion levels and use up to date information in the project identification and selection process that is perhaps the key element of each Mobility Plan update process.

Step 2: Define CMP Network

The second step of a CMP is to define the network for evaluation. The personal automobile is the predominant mode of transportation in the Knoxville region and the main source of congestion on the region's roadway system. The TPO's regional travel demand model is used throughout the planning process to analyze and illustrate to stakeholders and the public the extent of congestion on the roadway system, which impacts all users. The roadway network included in the model is a solid foundation on which to build the CMP network. It includes much of the federal-aid system – roads functionally classified as collector or higher – and data is consistently available for most of these segments. The detail and geographic boundary of the CMP network are shown in **Figure 2**. In terms of roadway mileage, the CMP network includes just over 1,000 roadway miles, representing approximately 20% of all roadways within the TPO area, the most congested of which are presented in **Table 2** and **Table 3**. This network is further broken down into 360 distinct corridors based on geometric design, county boundaries, and logical termini. This process allows the TPO to better align the assessment of congestion issues with how projects are implemented. Though not part of the travel demand model network, the region's multimodal facilities including bikeways, walkways, and transit services, were discussed as part of the CMP development.



Step 3: Develop Multimodal Performance Measures

In tandem with the CMP network identification, a set of multimodal performance measures were also established for use in communicating and discussing regional congestion and its causes. Historically, the CMP has pulled measures from travel demand model outputs, primarily the volume-to-capacity ratio (v/c ratio). As a quantitative measure for how much available roadway capacity is being consumed, this metric is typically converted to a level of service (LOS), which is generally understood by the public and stakeholder groups. In addition to v/c ratios, archived travel time and speed data from INRIX, a traffic data analytics firm, was used to assess the travel time index (TTI) was also obtained for corridors using this data source, which provides a comparison of peak hour travel times to off-peak travel times and is indicative of the intensity of congestion on a roadway segment. All of these metrics align with the CMP objective for reducing congestion.

The above metrics evaluate congestion and its impacts. However, there are other metrics used in the overall Mobility Plan project prioritization process that relate to the specific causes of congestion. More

specifically, safety information from the recently completed TPO Regional Roadway Safety Action Plan both on observed crashes on "High Injury Network" (HIN) corridors as well as a predictive analysis of where crashes are most likely to occur based on traffic and roadway characteristics factored into project selection. These metrics assess potential safety issues that could be sources of nonrecurring congestion and align with the CMP objective related to safety. Additionally, the presence of multimodal facilities along corridors was used as a performance metric related to the CMP objective of more multimodal options. Knowing that walking and biking trips are typically shorter in length, provision of these facilities can in some cases impact regional congestion caused by commuting. In addition to the measures listed above, which are specific to corridors, there are a number of system-level metrics tracked by the Knoxville region included in the Performance Measurement section of the Mobility Plan.

Step 4: Collect Data and Monitor System Performance

Performance measures were selected based on the availability of data and how they align with the TPO's regional Mobility Plan goals and CMP objectives. These metrics were also selected for use in the CMP because it is expected they will continue to be available in the future. Data sources for the performance metrics as well as their availability follow:

- Corridor-level v/c ratios and LOS for base and future horizon years were derived from the travel demand model outputs for the base year 2022 and future years of 2035 and 2050. This data should be available for use in the CMP with each Mobility Plan update.
- Quantification of corridor Travel Time Indices (TTI) were developed using data from INRIX and the National Performance Management Research Data Set (NPMRDS) made available through the Regional Integrated Transportation Information System (RITIS) platform.
- Presence of sidewalks, bikeways, greenways, and fixed route transit service along corridors were sourced using road inventory data from TDOT's ETRIMS network as well as GIS files maintained by the TPO and its member jurisdictions.
- The High Injury Network and Predictive Crash Analysis factors were utilized from the TPO Regional Roadway Safety Action Plan which was derived largely using data from the statewide TITAN crash database platform.

Tables 3 - 6 on the following pages highlight the performance of the CMP network based on the v/c and TTI metrics, with the data also presented in **Table 4** later in this appendix while the multimodal and safety

information is presented in other sections of the Mobility Plan. As shown in **Figures 3** - **5**, the primary vehicular congestion issues as measured through v/c ratios exist largely within Knox County and urban centers in the surrounding counties. While these metrics are associated with an entire corridor, it is feasible that a high v/c ratio and consequently a lower LOS could be caused by spot congestion issues such as an intersection bottleneck at the corridor termini. In addition, the v/c ratios are based on a daily capacity calculated for a 2022 "Existing + Committed," or E+C, network. This means that the generalized capacities for corridors were increased on roadways where a project is far enough along in the development process to be considered "committed" even if it is not constructed yet.



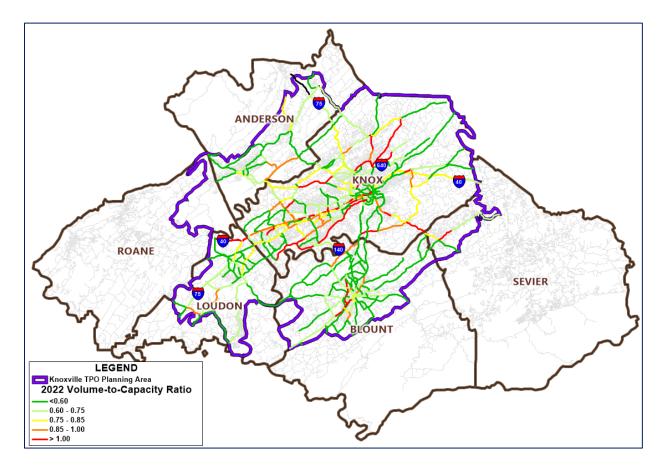


Figure 4. 2035 Volume-to-Capacity Ratio

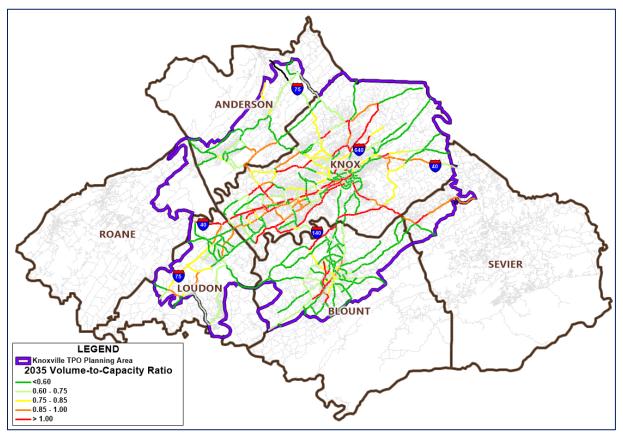


Figure 5. 2050 Volume-to-Capacity Ratio

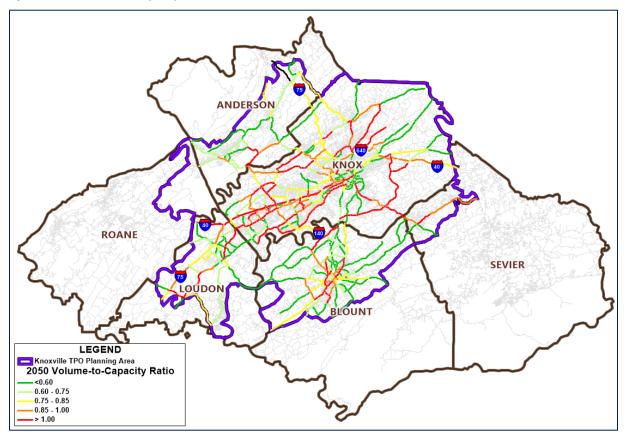


Figure 6 displays the "worst" 2022 TTI for either the AM or PM peak period. As mentioned, the TTI of a segment is a comparison of travel times along a segment during peak and off-peak periods and is indicative of the intensity of congestion. For example, if the TTI value is 2.0 then that means that it takes twice as long to traverse the segment in the peak period than during the off-peak, also known as "free flow" travel time. This map shows the average TTI across an entire CMP segment section, which may have shorter "spot" locations of more intense congestion as noted in the "Max TTI" field in **Table 5**.

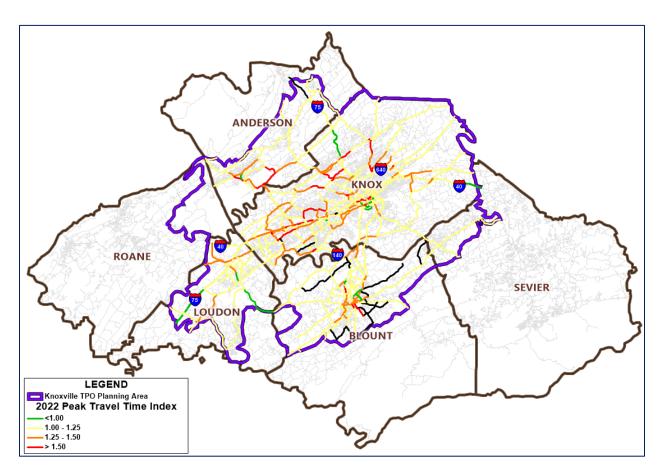


Figure 6. 2022 Travel Time Index (Worst Peak Period)

The congestion measures in the CMP can also be tied back to the required FHWA Performance Management process and specifically to the measures in the PM3 area related to travel time reliability and peak hour excessive delay. The data analytic tools mentioned previously allow the TPO to home in on specific segments which are the most unreliable or have the highest delay to better target investments for projects or studies that would be most likely to improve performance.

Table 2 lists the most unreliable five interstate and ten non-interstate segments in the TPO area based on the level of travel time reliability (LOTTR). The LOTTR value compares the 80th and 50th percentile travel times along a corridor and indicates how dependable or consistent travel is during different time periods

from day to day. Higher values represent less predictable travel conditions, and segments with LOTTR values over 1.5 are considered unreliable. **Table 3** includes CMP segments with the highest aggregated Peak Hour Excessive Delay hours for the year 2022 for the top 5 segments on both Interstate and Non-Interstate routes. Projects implemented on segments such as these should include elements that will significantly reduce congestion in these areas.

| | RANK | SEGMENT | LOTTR |
|----------------|------|---|-------|
| ш | 1 | Westbound I-40/I-75 from I-140/Pellissippi Pkwy to west of Lovell Rd | 3.16 |
| INTERSTATE | 2 | Westbound I-40 from Alcoa Hwy to I-75/I-640 | 3.02 |
| RSI | 3 | Eastbound I-40/I-75 from I-140/Pellissippi Pkwy to west of Cedar Bluff Rd | 2.72 |
| Ë | 4 | Eastbound I-40/I-75 from Campbell Station Rd to Lovell Rd | 2.00 |
| 2 | 5 | Eastbound I-40/I-75 from Watt Rd to Campbell Station Rd | 1.68 |
| | 1 | S. Illinois Ave (SR-62) from Lafayette Dr to Edgemoor Rd | 1.97 |
| | 2 | Neyland Dr (SR-115) from Alcoa Hwy to Kingston Pk | 1.67 |
| Ë | 3 | Clinton Hwy (SR-9) at W. Emory Rd | 1.62 |
| TA | 4 | Henley St from Summit Hill Dr to Blount Ave | 1.61 |
| NON-INTERSTATE | 5 | Asheville Hwy (SR-9) from Gov John Sevier Hwy to I-40 | 1.60 |
| IN | 6 | Western Ave (SR-62) from Texas Ave to I-640 | 1.57 |
| -N | 7 | Charles G. Seviers Blvd (SR-61) from Longmire Rd to I-75 | 1.57 |
| NC | 8 | Broadway (SR-33) from Western Ave to Central St | 1.57 |
| | 9 | U.S. 11 from Sugar Limb Rd to U.S. 321 | 1.57 |
| | 10 | Ed Shouse Dr from Middlebrook Pk to Western Ave | 1.56 |

Table 2. Most Unreliable Interstate and Non-Interstate Segments

Table 3. Interstate and Non-Interstate Segments with Highest Peak Hour Excessive Delay

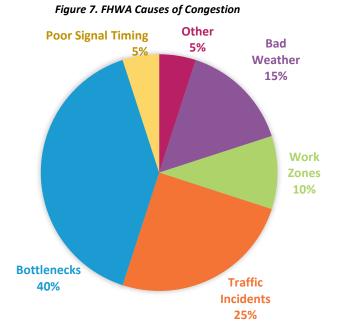
| | RANK | SEGMENT | PHED |
|------------|------|---|---------|
| ш | 1 | I-40/75 from Pellissippi Pkwy to Cedar Bluff Rd | 312,387 |
| TAT | 2 | I-40/75 from Lovell Rd to Pellissippi Pkwy | 277,307 |
| RSI | 3 | I-40/75 from Watt Rd to Lovell Rd | 163,355 |
| INTERSTATE | 4 | I-40 from Alcoa Hwy to James White Pkwy | 150,189 |
| 2 | 5 | I-40 from I-640 to Alcoa Hwy | 135,434 |
| ш | 1 | Broadway from Rifle Range Rd to Emory Rd | 174,168 |
| | 2 | Broadway from I-640 to Cedar Ln | 157,127 |
| NON | 3 | U.S. 321 from William Blount Dr to U.S. 129 Bypass | 147,529 |
| | 4 | Kingston Pk from Pellissippi Pkwy to Gallaher View Rd | 130,241 |
| 4 | 5 | Kingston Pk from Gallaher View Rd to Morrell Rd | 129,307 |

Step 5: Analyze Congestion Problems and Needs

In order to determine appropriate strategies for addressing congestion, it is critical to understand why congestion occurs. There are two primary types of congestion: recurring and non-recurring. Recurring congestion happens almost every day, usually because there are more vehicles on a roadway than it can accommodate. This leads to delays for drivers, which are generally experienced during peak hours of the day. In addition to situations in which demand exceeds capacity, there are geometric or operational issues that can cause recurring congestion at specific locations. One of the most common examples is a bottleneck location where the geometry of a roadway segment causes traffic to slow down. On interstates, these situations are commonly seen at ramps, weaving sections, and lane drops. On non-interstate corridors, recurring congestion can occur at specific intersections or along a corridor where traffic signal timing is not optimized for current traffic patterns. By contrast, non-recurring congestion is unanticipated and does not happen at predictable times. Examples of non-recurring congestion include weather events, construction work zones, special events, and other incidents such as roadway crashes. In all of these cases, the relative demand for roadway capacity increases abruptly and oftentimes unexpectedly. According to FHWA, non-recurring congestion accounts for approximately half of roadway congestion experienced by drivers.

Previous interviews with CMP stakeholders allowed for the identification of congestion issues in the region, discussion of their causes, and how they are currently being mitigated or could be mitigated. The causes of congestion can be generally grouped into the following categories:

> Over-Capacity Facilities – One of the overarching themes throughout stakeholder interviews was that many of the region's arterials and collectors are 2-lane roadways that carry more traffic than was ever intended with



their original design. This issue was identified in multiple locations across the region and includes corridors such as Tazewell Pike, Cedar Lane, Northshore Drive, Boyds Creek Highway, Oak Ridge Highway, and many others. In many instances, stakeholders identified the need for

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additional turn lanes along these corridors. This type of improvement would prevent leftturning vehicles from stopping the flow of through traffic, ultimately helping the corridors operate more efficiently.

- School Traffic Particularly in Knox County where population density is the highest, school-related traffic causes congestion issues on some of the County's major roadways. In many instances, schools are located on roadways that also serve as major commuting routes. Additionally, there are a number of school campuses with multiple schools, which intensifies school traffic to those sites. Stakeholders thought that enabling more students to bike and walk to school could be an effective approach to reducing vehicular traffic in and around schools.
- Lack of Bicycle and Pedestrian Infrastructure There is an ongoing need to provide more bicycle and pedestrian infrastructure in the TPO area. To address regional congestion issues, key infrastructure gaps and intersection accommodations along major corridors need to be addressed to make biking and walking safe options for commute trips for workers as well as school trips for students. Stakeholders mentioned multiple congested corridors where bicycle and pedestrian improvements could potentially reduce vehicular trips including, but not limited to, Chapman Highway, Middlebrook Pike, and Broadway in Knoxville.
- Lack of Regional Transit Service Many people commute across county lines for employment in the region. There is currently no regional transit service that could facilitate these trips, though there have been discussions in the past regarding the need and desire for this commuting option. More specifically, stakeholders identified the need for regional transit service between Farragut and downtown Knoxville as well as between other employment and residential centers. The primary barrier to providing this congestion-management strategy is availability of local funding.
- Freight Traffic With many ridgelines in the region, truck traffic can be a significant cause of congestion as the large vehicles struggle to maintain speed when climbing steep slopes. This is particularly an issue of concern on the many 2-lane roadways throughout the region. CMP stakeholders identified several locations where truck climbing lanes could be constructed or extended to provide passing opportunities for passenger traffic. Such locations include SR 2 (Lee Highway) in Loudon County and I-40/I-75 between Watt Road to Campbell Station Road.

The public was also engaged as part of the larger Mobility Plan effort and asked to pinpoint congestion issues in the region through an interactive online mapping exercise documented elsewhere in the Plan document.

Step 6: Identify and Assess Strategies

The purpose of the CMP is to first assess congestion issues in the region and then identify mitigation strategies with an emphasis on multimodal, operational, and demand management improvements. The Knoxville Regional TPO has identified several strategies that provide a toolbox for mitigating roadway congestion without widening, as detailed below. However, population growth and development patterns can, in some cases, necessitate the widening of roadways. In those instances, complementary strategies must be employed to preserve capacity for SOVs as required by regulations governing nonattainment areas for ozone.

Travel Demand Management (TDM) – TDM strategies are employed in urban areas as a means of redistributing demand on the transportation system either in space or time. To reduce demand on the system, typically during peak commuting hours, TDM strategies shift the way people make trips and when those trips are made, and reduce the number of trips, effectively preserving the capacity of the system. Common TDM strategies include the promotion of commute alternatives programs,

Regional CMP Goals

- Safety and Security
- More Options
- Congestion Reduction

Anticipated Benefits

- Reduced SOV Trips
- Reduced Peak Travel Times
- Improved Reliability
- Reduced Crashes
- Implementation Cost

• Low

telecommuting options, innovative parking management, flexible work hours, vanpool and carpool programs, multimodal trip-making, employer incentive programs, land use strategies, congestion pricing, and even ridesharing and micromobility. Some strategies are applied regionally while others can be targeted to more specific geographies, facilities, or even specific sites. Many of the TPO's TDM strategies focus on trip reduction strategies across the region.

- Intelligent Transportation Systems (ITS) ITS improves transportation safety and mobility using advanced communications technologies across transportation infrastructure and within vehicles. These systems are becoming increasingly useful for congestion avoidance and mitigation as travel information and congestion data become more readily available and accessible to drivers
- S
 Regional CMP Goals

 •
 Safety and Security

 •
 Congestion Reduction

 •
 Anticipated Benefits

 •
 Reduced Peak Travel Times

 •
 Improved Reliability

 •
 Reduced Crashes

 •
 Implementation Cost

 •
 Moderate

and agencies. Common examples of ITS technologies include in-vehicle navigation systems, variable message signs, CCTV cameras, road and weather information systems, and more dynamic management applications.

 Transportation System Management and Operations (TSM&O) – TSM&O is a larger umbrella of active traffic management strategies under which TDM and ITS efforts often fall. These strategies are designed to optimize the operations of existing transportation systems by reducing congestion, improving travel time reliability, and improving safety. Typically TSM&O refers to the process of collecting data on vehicular travel and congested conditions,

detecting and mitigating traffic issues with technology and changes to traffic operations, and then synthesizing and relaying that information to the motoring public when needed. TSM&O programs and solutions can be focused at varying geographic scales, from regions, to corridors, and even single intersections. Examples of system-wide TSM&O strategies could include regional bike share programs or congestion pricing, for instance, while facility-specific TSM&O strategies could include corridor transit service improvements or coordination of signalized intersections.

Public Transit Service Improvements – Improving the operation of and accessibility to transit service across the region can be an effective way to increase the capacity of the roadway system. Transit must be accessible, convenient, and attractive in order for it to compete with the personal vehicle as a mode choice. Reducing the barriers to taking transit could include improvements such

as expanded service areas/routes, increased frequencies on high-demand routes, transit signal

Safety and Security
 Congestion Reduction

Anticipated Benefits

Regional CMP Goals

- Reduced SOV Trips
- Reduced Peak Travel Times
- Improved Reliability
- Reduced Crashes
- Implementation Cost

 Moderate

Regional CMP Goals

Anticipated Benefits

Implementation Cost

More Options

Congestion Reduction

Increased Transit Ridership

Improved Transit Reliability

Reduced SOV Trips

Moderate/High

priority, improved pedestrian networks, better amenities along routes like shelters and benches, and compatible fare payment methods across services.

 Walkway and Bikeway Improvements – While the effective impact on congestion may be relatively small, improving pedestrian and bicycle infrastructure can encourage short-distance trips via active modes, increase accessibility to and from transit service, and remove vehicles from the road. To capitalize on the potential for reducing SOV trips, improvements to walkways and

 Regional CMP Goals

 More Options

 Congestion Reduction

 Anticipated Benefits

 Reduced SOV Trips

 Increased Transit Ridership

 Implementation Cost

 Low/Moderate

bikeways should focus on filling gaps on local networks, connecting major trip origins and destinations (e.g., residential areas, employment centers, tourist attractions, etc.), improving the quality and safety of existing facilities, and increasing access to fixed route transit stops.

 Additional Roadway Capacity – As mentioned previously, adding capacity on the roadway system is not a preferred alternative for addressing congestion but is sometimes necessary. In order to minimize the impact of increased SOV trips on the region's roadway system, additional capacity is preferably added through projects such as

Regional CMP Goals

Congestion Reduction

Anticipated Benefits

Reduced Peak Travel Times
Improved Reliability

Implementation Cost

Moderate/High

arterial intersection improvements, signal timing and coordination along a corridor, turn lanes at key intersections, center turn lanes along corridors, interstate managed lanes such as High-Occupancy Vehicle (HOV) lanes, and new roadway connections. The "last resort" for addressing congestion would be providing additional, unmanaged through lanes along a corridor.

While the effectiveness of these strategies will vary by corridor, national research and best practices underscore their ability to mitigate congestion. For example, US DOT reports that road and weather information systems can return a benefit-cost ratio on the order of 10:1, adaptive signal control can improve travel times up to 11%, and traffic incident management can reduce incident duration between 30% and 40%.

There are several tools available to the TPO for assessing the need for and efficacy of these strategies within the Knoxville region. The most readily available tool is the regional travel demand model, which can assess system- and link-level changes to vehicular delay, which directly relates back to the CMP performance measure of v/c ratio and indirectly relates to the CMP performance measures related to

bottleneck density and travel time reliability. However, the sensitivity of the current model for the Knoxville region limits the ability to test congestion mitigation strategies beyond additional roadway capacity, such as policy and operational improvements.

On a project level, corridor and intersection modeling tools can provide more detailed estimates of expected delay reductions gained through improvements such as turn lanes, optimized signal timing, and traffic signal coordination. Furthermore, before and after studies could be explored as ways to evaluate the congestion reduction potential of CMP strategies implemented locally. Data collection for these efforts could include traditional travel time runs, trip generation counts at development driveways, transit ridership and on-board surveys, and analysis of passive data such as the NPMRDS.

Step 7: Program and Implement Strategies

The implementation of CMP strategies is a critical element of the metropolitan transportation planning process. It directly folds into the TPO's more comprehensive Mobility Plan and subsequent Transportation Improvement Programs (TIPs). Through these efforts, the CMP provides a foundation for assessing regional congestion issues, identifying potential mitigation strategies, and tracking the improvement in congestion with each plan update, all of which is based in data and stakeholder engagement. In a similar fashion, the CMP is founded on the regional goals and objectives outlined in the Mobility Plan and integrated into the broader stakeholder and public outreach efforts. In this way, the CMP does not supersede other elements of the planning process but rather complements them.

The Mobility Plan and the TIP are the primary methods for funding CMP strategies. The most direct link between all of these is through the project selection process described in the Mobility Plan. In assessing which projects should be prioritized for funding, projects that include CMP strategies are ranked higher than projects that do not. Further, all the performance metrics used in the CMP are direct inputs for the project selection process, prioritizing strategies that address congestion issues and causes through operational and multimodal improvements. The metrics and data analysis from the CMP were used to prioritize the implementation of ITS strategies across the region where appropriate. These strong linkages ensure that the CMP development is a process that moves the needle for mitigating congestion issues in the TPO area.

Table 4 documents congestion issues and potential causes for the entire CMP network. Corridors that reach a v/c ratio of 0.85 by 2050 are identified and highlighted in this table. **Table 4** displays these congested corridors based on the horizon in which the corridor crosses the 0.85 threshold and

corresponds with the corridor IDs in **Figure 8.** The prefixes to the corridor IDs correspond to the county in which the corridor is located. In addition, corridors with peak hour travel time indices over 1.5 are also highlighted in **Table 4** as they could indicate spot congestion along the corridors.

Finally, **Table 5** documents all identified solutions described in Step 6 that are part of the fiscally constrained Mobility Plan 2050. Every congested corridor was assigned a project although it should be noted that several utilize the "catch-all" project denoted as 24-706, which is the Travel Congestion & Clean Air Improvement Grouping with the intention of smaller ITS and operational improvements being sought during interim project calls. A relatively small percentage of the projects included in the Mobility Plan include major roadway capacity additions along a corridor. These roadway capacity additions are listed in **Table 5**, which includes the justification for the improvements and enumerates the additional measures taken to preserve the roadway capacity over the long term as is required by the CMP regulations.



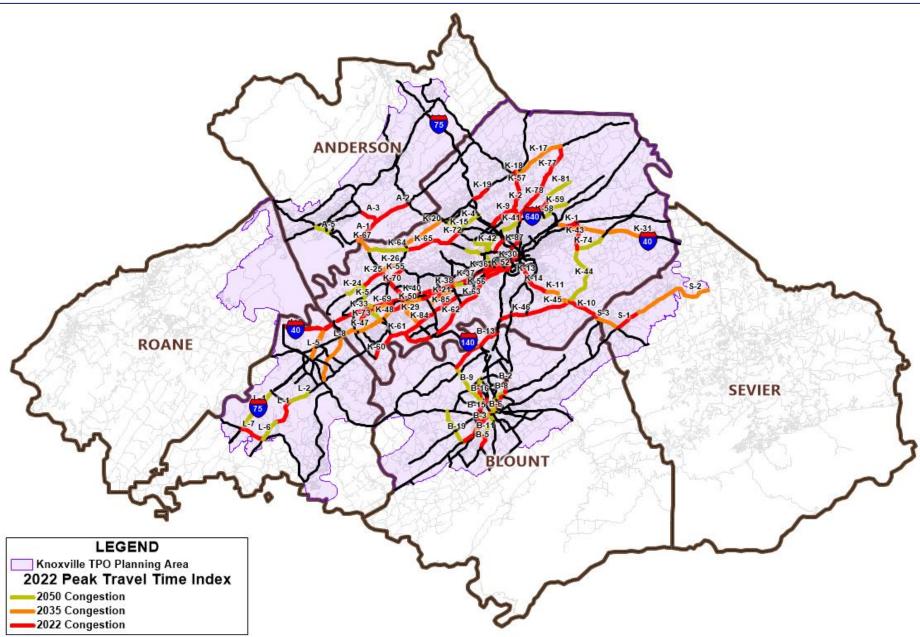


Table 4. Performance of All CMP Corridors and Mobility Plan Project Identification

| | | | AM Max | PM Max | | | | | | Congested | Spot | | Mobility Plan |
|---------------------------------|---|----------|--------|--------|------------|------------|----------|----------|----------|-------------|------------|----------------------------|-----------------|
| Corridor Name | Corridor Limits | Capacity | TTI | TTI | AM Avg TTI | PM Avg TTI | 2022 V/C | 2035 V/C | 2050 V/C | Corridor ID | Congestion | Proposed CMP Strategies | Project ID |
| ANDERSON COUNTY | | | - | | - | | | - | | | | | |
| Charles G. Seviers Blvd | JD Yarnell Ln - I-75 | 34,500 | 1.67 | 2.27 | 1.19 | 1.24 | 0.70 | 0.72 | 0.74 | | Х | ITS/Operational | 24-706 |
| | SR 9 - JD Yarnell Ln | 34,500 | 1.22 | 1.29 | 1.04 | 1.10 | 0.62 | 0.64 | 0.66 | | | | |
| Clinch Ave | Edgemoor Rd - SR 61 | 35,700 | 1.39 | 1.16 | 1.05 | 1.00 | 0.47 | 0.49 | 0.51 | | | | |
| Dutch Valley Rd/Frost Bottom Rd | U.S. 25 - SR 62 | 13,520 | 1.19 | 1.14 | 1.01 | 1.03 | 0.18 | 0.19 | 0.20 | | | | |
| Education Del | SR 62 - Melton Lake Rd | 16,900 | 1.63 | 3.23 | 1.15 | 1.83 | 0.93 | 0.96 | 1.00 | A-1 | | Bike/Ped, Roadway Capacity | 09-101a |
| Edgemoor Rd | Melton Lake Rd - Clinton Hwy | 16,900 | 2.77 | 2.08 | 1.43 | 1.29 | 0.88 | 0.91 | 0.95 | A-2 | | Bike/Ped, Roadway Capacity | 09-101b |
| Emory Valley Rd | Lafayette Ave - Melton Lake Rd | 15,600 | 1.13 | 1.17 | 1.03 | 1.04 | 0.57 | 0.57 | 0.58 | | | | |
| 1-75 | SR 61 - Raccoon Valley Rd | 76,500 | 1.01 | 1.08 | 0.97 | 1.01 | 0.72 | 0.75 | 0.78 | | | | |
| Lafayette Ave | Oak Ridge Turnpike - Illinois Ave | 32,900 | 1.63 | 1.78 | 1.09 | 1.17 | 0.50 | 0.52 | 0.54 | | | | |
| Main St | I-75 - SR 61 | 13,520 | 1.84 | 1.81 | 1.09 | 1.09 | 0.75 | 0.79 | 0.84 | | | | |
| | Emory Valley Rd - Edgemoor Rd | 12,480 | 1.72 | 3.03 | 1.10 | 1.72 | 0.94 | 0.98 | 1.00 | A-3 | | ITS/Operational | 13-101 |
| Melton Lake Rd | Oak Ridge Turnpike - Emory Valley Rd | 12,480 | 1.10 | 1.17 | 1.03 | 1.09 | 0.64 | 0.68 | 0.70 | | | | |
| N. Illinois Ave | Oak Ridge Turnpike - W. Outer Dr | 35,700 | 1.68 | 1.72 | 1.36 | 1.34 | 0.52 | 0.57 | 0.63 | | | | |
| | Knox County Line - SR 61 | 13,520 | 2.03 | 1.99 | 1.09 | 1.06 | 0.61 | 0.73 | 0.81 | | Х | ITS/Operational | 24-706 |
| Norris Fwy | SR 61 - Campbell County Line | 13,520 | 1.11 | 1.24 | 1.03 | 1.02 | 0.10 | 0.11 | 0.14 | | | | |
| | Roane County Line - Illinois Ave | 35,700 | 1.38 | 1.27 | 1.06 | 1.04 | 0.54 | 0.59 | 0.62 | | | | |
| Oak Ridge Turnpike | Illinois Ave - New York Ave | 34,500 | 1.46 | 1.60 | 1.25 | 1.33 | 0.61 | 0.64 | 0.66 | | | | |
| | New York Ave - Melton Lake Rd | 34,500 | 2.21 | 2.65 | 1.19 | 1.33 | 0.60 | 0.61 | 0.62 | | Х | ITS/Operational | 13-802 (2045MP) |
| Raccoon Valley Rd | Clinton Hwy - Knox County Line | 13,520 | 1.98 | 1.89 | 1.23 | 1.14 | 0.31 | 0.32 | 0.39 | | Х | ITS/Operational | 24-706 |
| Rutgers Ave | Oak Ridge Turnpike - Illinois Ave | 32,900 | 1.39 | 1.67 | 0.90 | 0.93 | 0.30 | 0.31 | 0.33 | | | | |
| | Knox County Line - Bethel Valley Rd | 61,800 | 1.03 | 3.26 | 1.00 | 1.86 | 0.62 | 0.66 | 0.69 | A-4 | | | |
| S. Illinois Ave | Bethel Valley Rd - Lafayette Ave | 53,500 | 1.08 | 2.24 | 1.00 | 1.30 | 0.62 | 0.66 | 0.69 | | Х | ITS/Operational | 24-706 |
| | Lafayette Ave - Oak Ridge Turnpike | 34,500 | 1.43 | 2.29 | 1.23 | 1.56 | 0.78 | 0.84 | 0.89 | A-5 | | | |
| Scarboro Rd | Illinois Ave - Bethel Valley Rd | 15,600 | 1.81 | 1.99 | 1.13 | 1.23 | 0.67 | 0.70 | 0.73 | | Х | ITS/Operational | 24-706 |
| | Melton Lake Rd - SR 9 | 33,915 | 1.44 | 2.37 | 1.06 | 1.11 | 0.53 | 0.54 | 0.56 | | Х | ITS/Operational | 24-706 |
| SR 61 | SR 62 - Oak Ridge Turnpike | 13,520 | 1.93 | 2.23 | 1.14 | 1.14 | 0.39 | 0.42 | 0.45 | | Х | ITS/Operational | 24-706 |
| | I-75 - Norris Fwy | 35,700 | 1.35 | 1.63 | 1.08 | 1.13 | 0.64 | 0.68 | 0.71 | | | | |
| Tri-County Blvd | W. Outer Dr - Roane County Line | 35,700 | 1.34 | 1.56 | 1.10 | 1.11 | 0.52 | 0.59 | 0.66 | | | | |
| US 25 W | Knox County Line - Edgemoor Rd | 26,775 | 1.21 | 1.10 | 1.04 | 1.01 | 0.56 | 0.59 | 0.63 | | | | |
| BLOUNT COUNTY | | 3,1.2 | I | | | | | 1 | | | | | |
| | Hunt Rd - I-140 | 61,800 | 1.14 | 1.30 | 1.07 | 1.22 | 0.28 | 0.29 | 0.31 | | | | 13-210 |
| Alcoa Hwy | Singleton Station Rd - C.L. | 92,700 | 2.47 | 3.29 | 1.25 | 1.32 | 0.51 | 0.55 | 0.60 | | Х | Bike/Ped, Roadway Capacity | 09-216 |
| | Pellissippi Pkwy - Singleton Station Rd | 61,800 | 1.05 | 1.07 | 1.03 | 1.06 | 0.22 | 0.23 | 0.25 | | | | 09-216 |
| | US 129 - Hall Rd | 15,600 | 1.26 | 1.54 | 1.02 | 1.19 | 0.98 | 1.14 | 1.34 | B-1 | | Bike/Ped, Roadway Capacity | 24-208 |
| Bessemer St | Hall Rd - Springbook Rd | 12,480 | 1.09 | 1.04 | 1.06 | 0.99 | 0.37 | 0.43 | 0.51 | | | | |
| Blockhouse Rd | Montvale Rd - Wilkinson Pk | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.10 | 0.11 | 0.13 | | | | |

| | | | AM Max | PM Max | | | | | | Congested | Spot | | Mobility Plan |
|--------------------------------------|--|----------|-----------|-----------|------------|------------|----------|----------|----------|-------------|------------|--------------------------|-----------------|
| Corridor Name | Corridor Limits | Capacity | TTI | ТТІ | AM Avg TTI | PM Avg TTI | 2022 V/C | 2035 V/C | 2050 V/C | Corridor ID | Congestion | Proposed CMP Strategies | Project ID |
| Brick Mill Rd | U.S. 129 - U.S. 411 | 12,480 | 1.15 | 1.09 | 1.07 | 1.03 | 0.19 | 0.21 | 0.24 | | | | |
| | Hunt Rd - Washington St | 13,520 | 2.00 | 1.96 | 1.25 | 1.28 | 0.89 | 0.95 | 1.03 | B-2 | | Intersection imp, Bypass | 09-212, 09-232 |
| Broadway Ave | US 129 - Lamar Alexander Pkwy | 13,520 | 1.69 | 1.71 | 1.15 | 1.16 | 1.31 | 1.37 | 1.43 | B-3 | | Roadway Capacity | 09-242 |
| | Lamar Alexander Pkwy - Washington St | 13,520 | 1.68 | 1.71 | 1.11 | 1.26 | 0.84 | 0.89 | 0.93 | B-4 | | ITS/Operational | 24-706 |
| Brown School Rd | Sevierville Rd - Old Knoxville Hwy | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.40 | 0.43 | 0.45 | | | | |
| Burnett Station Rd | Chapman Hwy - Sevierville Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.31 | 0.37 | 0.44 | | | | |
| Calderwood Hwy | Monroe County Line - U.S. 411 S | 13,520 | 1.12 | 1.12 | 1.05 | 1.03 | 0.56 | 0.59 | 0.66 | | | | |
| Calderwood St/Cusick St | US Hwy 411 - Alcoa Hwy | 24,675 | 1.30 | 1.52 | 1.02 | 1.22 | 0.62 | 0.71 | 0.80 | | | | |
| | Mint Rd - Raulston Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.33 | 0.37 | 0.44 | | | | |
| Carpenter Grade Rd | Raulston Rd - Sandy Springs Rd | 12,480 | 1.24 | 1.15 | 1.11 | 1.07 | 0.92 | 1.15 | 1.43 | B-5 | | Minor Capacity | 09-223 (2045MP) |
| Court St | Memorial Dr - U.S. 321 | 12,480 | 1.50 | 1.75 | 1.50 | 1.75 | 0.57 | 0.63 | 0.71 | | | | |
| Cusick Rd | Singleton Sta. Rd - U.S. 129 | 12,480 | 1.33 | 1.33 | 1.12 | 1.10 | 0.35 | 0.49 | 0.62 | | | | |
| Dogwood Dr | Sevierville Rd - Lamar Alexander Pkwy | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.10 | 0.11 | 0.13 | | | | |
| Everett High Rd | Sevierville Rd - Lincoln Rd | 12,480 | 1.03 | 1.16 | 0.99 | 1.00 | 0.36 | 0.42 | 0.51 | | | | |
| Faraday St/Mill St/Springbrook Rd | Hunt Rd - Wright Rd | 12,480 | 1.16 | 1.09 | 1.06 | 1.01 | 0.13 | 0.17 | 0.23 | | | | |
| Foch St/Home Ave | U.S. 321 - U.S. 129 | 12,480 | 1.03 | 1.38 | 1.03 | 1.38 | 0.50 | 0.55 | 0.61 | | | | 24-201 |
| | Lamar Alexander Pkwy - US 411 | 32,900 | 1.46 | 2.15 | 0.88 | 1.03 | 0.47 | 0.54 | 0.63 | | Х | ITS/Operational | 24-706 |
| Foothills Mall Dr | U.S. 321 - U.S. 129 | 32,900 | 1.56 | 1.60 | 1.17 | 1.27 | 0.53 | 0.58 | 0.65 | | | | |
| Hall Rd | Alcoa Hwy - Lincoln St | 32,900 | 1.34 | 1.37 | 1.08 | 1.17 | 0.57 | 0.63 | 0.70 | | | | |
| Hall Rd/Washington St | Lincoln St - US 321 | 32,900 | 1.34 | 1.85 | 1.14 | 1.36 | 0.74 | 0.81 | 0.89 | B-6 | | Bypass | 09-232 |
| High St | Brown School Rd - Washington St | 16,380 | 1.73 | 1.45 | 1.36 | 1.23 | 0.66 | 0.71 | 0.76 | | | /1 | 24-209 |
| Hunt Rd | Louisville Rd - Alcoa Hwy | 15,600 | 2.03 | 1.32 | 1.27 | 1.15 | 0.51 | 0.58 | 0.66 | | Х | ITS/Operational | 24-706 |
| Hunt Rd | Alcoa Hwy - SR 33 | 15,600 | 1.38 | 1.62 | 1.09 | 1.11 | 0.47 | 0.53 | 0.62 | | | -/ | |
| Hunt Rd/Old Glory Rd | U.S. 321 - Louisville Rd | 12,480 | 1.68 | 1.67 | 1.15 | 1.16 | 0.54 | 0.62 | 0.69 | | | | |
| I-140 | C.L U.S. 129 | 76,500 | 1.12 | 1.08 | 1.04 | 1.02 | 0.57 | 0.64 | 0.71 | | | | |
| | Tuckaleechee Pk - Washington St | 35,700 | 1.57 | 1.48 | 1.08 | 1.11 | 0.63 | 0.70 | 0.78 | | | | |
| | William Blount Dr - Alcoa Hwy | 35,700 | 1.74 | 1.90 | 1.17 | 1.22 | 0.66 | 0.72 | 0.81 | | | | |
| | Alcoa Hwy - Broadway Ave | 34,500 | 1.57 | 2.04 | 1.14 | 1.29 | 0.74 | 0.81 | 0.89 | B-7 | | ITS/Operational | 24-706 |
| Lamar Alexander Pkwy | W. Broadway Ave - Washington St | 34,500 | 1.49 | 1.53 | 1.19 | 1.36 | 0.67 | 0.73 | 0.80 | | | · · | |
| | Loudon County Line - Wm Blount Dr | 35,700 | 1.11 | 1.11 | 1.00 | 0.99 | 0.34 | 0.39 | 0.44 | | | | |
| | Tuckaleechee Pk - SR 337 | 35,700 | 1.29 | 1.10 | 1.05 | 1.02 | 0.39 | 0.45 | 0.51 | | | | |
| Lincoln Rd | Hall Rd - Old Knoxville Hwy | 12,480 | 1.33 | 1.32 | 0.98 | 0.94 | 0.67 | 0.76 | 0.92 | B-8 | | ITS/Operational | 24-706 |
| Louisville Rd | Alcoa Hwy - Topside Rd | 13,520 | 1.41 | 1.65 | 1.10 | 1.17 | 0.71 | 0.83 | 0.94 | B-9 | | Minor Capacity | 13-215 |
| Louisville Rd/Miser Sta Rd/Quarry Rd | | 13,520 | 1.31 | 1.41 | 1.09 | 1.09 | 0.25 | 0.29 | 0.34 | - | | | |
| McArthur Rd | Springbrook Rd - Old Knoxville Hwy | 12,480 | 1.23 | 1.12 | 1.10 | 1.03 | 0.24 | 0.29 | 0.35 | | | | |
| Memorial Dr/Pleasant Hill Rd | Duncan Rd - Lamar Alexander Pkwy | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.04 | 0.05 | 0.07 | | | | |
| Mentor Rd | Wright Ferry Rd - Louisville Rd | 12,480 | , #N/A | #N/A | #N/A | #N/A | 0.13 | 0.20 | 0.28 | | | | |
| Middlesettlement | U.S. 129 - Old Glory Rd | 35,700 | 1.33 | 1.62 | 1.04 | 1.08 | 0.27 | 0.33 | 0.39 | | | | |
| Mint Rd | Carpenters Grade Rd - Old Niles Ferry Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.23 | 0.26 | 0.28 | | | | |
| Miser Station Rd | Quarry Rd - Louisville Rd | 12,480 | , #N/A | , #N/A | , #N/A | , #N/A | 0.10 | 0.12 | 0.14 | | | | |
| | Southview Dr - Boardman Ave | 13,520 | 1.55 | 1.30 | 1.09 | 1.05 | 0.36 | 0.41 | 0.46 | | | | |
| Montvale Rd | Boardman Ave - Lamar Alex Pkwy | 13,520 | 1.90 | 1.74 | 1.51 | 1.50 | 0.77 | 0.84 | 0.93 | B-10 | 1 | Minor Capacity | 24-207 |
| | Six Mile Rd - Southview Dr | 13,520 | 1.10 | 1.09 | 1.05 | 1.02 | 0.36 | 0.41 | 0.47 | - | | | - |
| Montvale Station Rd | Carpenter Grd Rd - Montvale Rd | 12,480 | 1.37 | 1.49 | 1.08 | 1.02 | 0.69 | 0.79 | 0.92 | B-11 | 1 | ITS/Operational | 24-706 |
| | Foothills Mall Rd - Wm Blount Dr | 16,380 | 1.25 | 1.29 | 1.14 | 1.14 | 0.66 | 0.74 | 0.81 | | 1 | | |
| Morganton Rd | Wm Blount Dr - Henry Ln | 12,480 | 1.73 | 1.59 | 1.06 | 1.06 | 0.44 | 0.50 | 0.55 | | + | | |
| | Sam Houston School Rd - Hunt Rd | 32,900 | 1.56 | 1.79 | 1.28 | 1.34 | 0.57 | 0.64 | 0.73 | | 1 | | |
| Old Knoxville Hwy | Sam Houston Rd - Knox County Line | 13,520 | 1.18 | 1.23 | 1.06 | 1.04 | 0.57 | 0.66 | 0.73 | | + | | |
| Old Niles Ferry Rd | Calderwood Hwy - W. Broadway Ave | 12,480 | 1.10 | 1.71 | 1.11 | 1.06 | 0.44 | 0.55 | 0.78 | | + | | |
| Raulston Rd | Montvale Rd - Carpenter Grade Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.40 | 0.53 | 0.69 | | + | | |
| Kauiston Ka | liviontvale ka - Carpenter Grade Kd | 12,480 | #N/A | #N/A | #IN/A | #N/A | 0.40 | 0.53 | 0.69 | l | | | |

| Consider Norse | Corridor Limits | Conocity | AM Max | PM Max | | PM Avg | 2022 V/C | 2025 1//0 | 2050 V/C | Congested Corridor ID | Spot Congestion | Proposed CMP | Mobility Plan Project ID |
|--------------------------------|------------------------------------|--------------------|--------------------|--------------|--------------------|--------|----------|-------------------------|----------|--------------------------|--------------------|------------------------------------|-----------------------------|
| Corridor Name Russell Rd | U.S. 129 - Old Knoxville Hwy | Capacity 12,480 | TTI 1.30 | 1.31 | AM Avg TTI 1.06 | 1.03 | 0.29 | 2035 V/C 0.43 | 0.51 | | congestion | Strategies | Project ID |
| Sandy Springs Rd | Montvale Station Rd - U.S. 411 | 12,480 | 3.13 | 2.98 | 1.00 | 1.05 | 0.23 | 0.43 | 1.09 | B-12 | - | ITS/Operational | 24-706 |
| | Brown School Rd - Northfield Dr | 13,520 | 1.05 | 1.04 | 1.47 | 1.04 | 0.65 | 0.69 | 0.74 | D-12 | - | 113/Operational | 24-700 |
| Sevierville Rd | Northfield Dr - Chapman Hwy | 13,520 | 1.05 | 1.04 | 1.03 | 1.04 | 0.05 | 0.09 | 0.74 | | - | | |
| SR 162 | Old Knoxville Hwy - U.S. 129 | 76,500 | 1.14 | 1.10 | 1.04 | 1.02 | 0.45 | 0.43 | 0.33 | | - | | |
| 511 102 | Alcoa Hwy - I-140 | 13,520 | 2.47 | 3.29 | 1.36 | 1.49 | 0.19 | 1.04 | 1.16 | B-13 | | Minor Capacity | 09-248 |
| Topside Rd | I-140 - Louisville Rd | 13,520 | 1.19 | 1.48 | 1.08 | 1.45 | 0.88 | 1.04 | 1.10 | B-13 B-14 | | ITS/Operational | 24-706 |
| Tuckaleechee Pk | U.S. 321 W - U.S. 321 E | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.24 | 0.26 | 0.29 | D-14 | | 113/Operational | 24-700 |
| | US 411 - Louisville Rd | 34,500 | 1.85 | 1.83 | 1.16 | 1.28 | 1.16 | 1.26 | 1.35 | B-15 | | Capacity | 17-202 |
| LIS 120 Purpage | Louisville Rd - Hall Rd | 35,700 | 1.85 | 3.27 | 1.10 | 1.51 | 1.09 | 1.19 | 1.35 | B-15 B-16 | | Capacity | 17-202 |
| US 129 Bypass | Hall Rd - Hunt Rd | 92,700 | 1.20 | 1.02 | 0.99 | 0.97 | 0.73 | 0.80 | 0.88 | B-10 B-17 | - | Previous Roadway Capacity | 09-218 (2045MP) |
| | William Blount Dr - US 129 | 35,700 | 1.12 | 1.02 | 1.23 | 1.39 | 1.06 | 1.14 | 1.22 | B-17 B-18 | | Interchange Reconfiguration | 24-203 |
| US 411 | Loudon County Line - Wm Blount Dr | 35,700 | 1.50 | 1.90 | 1.23 | 1.03 | 0.63 | 0.69 | 0.76 | D-10 | | | 24-205 |
| Wildwood Rd | Old Knoxville Hwy - Nails Creek Rd | 12,480 | #N/A | 1.51 #N/A | 1.02 #N/A | #N/A | 0.83 | 0.89 | 0.78 | | | | |
| | • | | - | | | | | | | | | | |
| Wilkinson Pk | Blockhouse Rd - Court St | 12,480 | #N/A | #N/A | #N/A 1.17 | #N/A | 0.43 | 0.48 | 0.54 | D 10 | | | 24 700 |
| William Blount Dr | U.S. 321 - U.S. 411 South | 12,480 | 1.44 | 1.44 | | 1.15 | | 0.75 | 0.85 | B-19 | | ITS/Operational | 24-706 |
| Wright Rd | U.S. 129 - Hunt Rd | 12,480 | 1.24 | 1.16 | 1.07 | 1.05 | 0.44 | 0.48 | 0.53 | | | | |
| | Hunt Rd - Lincoln Rd | 12,480 | 1.51 | 1.38 | 1.22 | 1.07 | 0.28 | 0.32 | 0.38 | | | | 00.007 |
| Wrights Ferry Rd | U.S. 129 - Topside Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.21 | 0.26 | 0.34 | | | | 09-207 |
| KNOX COUNTY | | | | | | | | | | | | | |
| 17th St | Cumberland Av - Western Av | 23,940 | 1.35 | 1.61 | 1.07 | 1.16 | 0.49 | 0.56 | 0.57 | | | | |
| 5th Ave | Cherry St - Broadway | 34,500 | 1.47 | 1.54 | 1.09 | 1.10 | 0.26 | 0.37 | 0.52 | | | | |
| | C.L Maloney Rd | 92,700 | 1.24 | 1.16 | 1.12 | 1.09 | 0.53 | 0.57 | 0.61 | | | | |
| | Maloney Rd - Woodson Dr | 105,400 | 1.08 | 1.09 | 0.99 | 1.00 | 0.45 | 0.48 | 0.51 | | | | |
| Alcoa Hwy | Woodson Dr - Cherokee Trail | 92,700 | 1.12 | 1.13 | 1.06 | 1.06 | 0.49 | 0.54 | 0.58 | | | | |
| | Cherokee Tr - Kingston Pk | 105,400 | 1.04 | 1.11 | 1.00 | 1.05 | 0.64 | 0.71 | 0.75 | | | | |
| | Kingston Pk - I-40 | 105,400 | 1.01 | 1.16 | 0.99 | 1.08 | 0.64 | 0.72 | 0.75 | | | | |
| Amherst Rd | Middlebrook Pk - Ball Camp Pk | 12,480 | 1.67 | 1.70 | 1.15 | 1.15 | 0.36 | 0.40 | 0.46 | | | | |
| Andrew Johnson Hwy | C.L Asheville Hwy | 35,700 | 1.57 | 1.85 | 1.11 | 1.11 | 0.49 | 0.54 | 0.58 | | | | |
| | AJ Hwy - Sevier County Line | 13,520 | 1.54 | 1.55 | 1.13 | 1.10 | 0.31 | 0.39 | 0.54 | | | | |
| | John Sevier Hwy - I-40 E Ramps | 35,700 | 1.38 | 1.86 | 1.11 | 1.38 | 1.13 | 1.25 | 1.42 | K-1 | | ITS/Operational | 24-706 |
| Asheville Hwy | Asheville Hwy -Brakebill Rd | 35,700 | 1.08 | 1.08 | 1.01 | 1.01 | 0.63 | 0.71 | 0.77 | | | | |
| | Brakebill Rd - John Sevier Hwy | 35,700 | 3.40 | 3.09 | 1.29 | 1.27 | 0.67 | 0.76 | 0.85 | | Х | ITS/Operational | 24-706 |
| | I-40 E Ramps - Prosser Rd | 35,700 | 1.31 | 1.35 | 1.04 | 1.10 | 0.28 | 0.38 | 0.51 | | | | |
| Atlantic Ave | Bruhin Rd - Broadway | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.26 | 0.27 | 0.28 | | | | |
| Beaumont Ave/Keith Ave | Liberty St - I-275 | 12,480 | 1.32 | 1.04 | 1.11 | 1.01 | 0.19 | 0.22 | 0.23 | | | | |
| | Emory Rd - Oak Ridge Hwy | 12,480 | 1.31 | 1.34 | 1.26 | 1.27 | 0.47 | 0.54 | 0.55 | | | | |
| Beaver Ridge Rd | Oak Ridge Hwy - Hardin Valley Rd | 12,480 | 1.75 | 1.48 | 1.20 | 1.16 | 0.73 | 0.79 | 0.84 | | | | |
| Blount Ave/Sevier Ave/Anita Dr | Henley St - James White Pkwy | 16,380 | 1.68 | 1.68 | 1.14 | 1.14 | 0.26 | 0.30 | 0.33 | | | | |
| Bluegrass Rd | Northshore Dr - Ebenezer Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 0.22 | 0.25 | 0.28 | | | | |
| Boyd Station Rd | Loudon County Line - Virtue Rd | 12,480 | 1.09 | 1.11 | 1.02 | 1.03 | 0.30 | 0.34 | 0.40 | | | | |
| -, | I-640 W Ramps - Grainger Ave | 31,160 | 1.40 | 1.69 | 1.11 | 1.22 | 0.54 | 0.58 | 0.60 | | | | |
| | Central St - Grainger Ave | 24,600 | 1.05 | 1.26 | 0.97 | 1.04 | 0.24 | 0.27 | 0.28 | | 1 | | |
| Broadway | Brown Gap Rd - Cedar Ln | 35,700 | 2.33 | 1.82 | 1.40 | 1.36 | 0.90 | 0.95 | 0.99 | K-2 | | ITS/Operational, Public Transit | 17-1006, 13-602 |
| , | Cedar Ln - I-640 W Ramps | 32,800 | 1.74 | 2.25 | 1.29 | 1.67 | 1.01 | 1.07 | 1.12 | K-3 | | ITS/Operational, Public Transit | 17-1006, 13-603 |
| | Summit Hill Dr - Central St | 16,300 | 1.24 | 1.21 | 1.07 | 1.05 | 0.29 | 0.35 | 0.38 | | 1 | | |
| Bruhin Rd/Central St | Bruhin Rd - Woodland Ave | 16,380 | 1.35 | 1.38 | 1.11 | 1.12 | 0.58 | 0.65 | 0.70 | | 1 | | |
| Callahan Dr | Central Ave Pk - Pleasant Ridge Rd | 32,900 | 1.81 | 2.83 | 1.26 | 1.55 | 0.78 | 0.85 | 0.99 | К-4 | 1 | ITS/Operational | 24-706 |
| | Kingston Pk - Concord Rd | 31,100 | 1.71 | 1.90 | 1.14 | 1.22 | 0.38 | 0.47 | 0.57 | | 1 | , , , | |
| Campbell Station Rd | I-40 W Ramps - Hardin Valley Rd | 12,480 | 1.53 | 2.00 | 1.18 | 1.27 | 0.54 | 0.69 | 0.87 | K-5 | 1 | Minor Capacity | 10-700 |

| Corridor Name | Corridor Limits | Capacity | AM Max TTI | PM Max TTI | AM Avg TT | PM Avg TTI | 2022 V/C | 2035 V/C | 2050 V/C | Congested Corridor ID | Spot Congestion | Proposed CMP Strategies | Mobility Plan Project ID |
|------------------------|--|----------|---------------|---------------|-----------|------------|----------|----------|----------|--------------------------|--------------------|-----------------------------|-----------------------------|
| | Kingston Pk - Parkside Dr | 34,500 | 1.55 | 1.38 | 1.25 | 1.06 | 0.69 | 0.77 | 0.85 | K-6 | | ITS/Operational | 13-813 (2045MP) |
| Campbell Station Rd | Parkside Dr - I-40 | 32,900 | 1.71 | 2.09 | 1.36 | 1.58 | 1.09 | 1.16 | 1.21 | K-7 | | ITS/Operational | 13-813 (2045MP) |
| | Middlebrook Pk - Dutchtown Rd | 32,900 | 2.00 | 2.54 | 1.42 | 1.50 | 0.60 | 0.64 | 0.68 | | х | ITS/Operational | 24-706 |
| Cedar Bluff Rd | Dutchtown Rd - Peters Rd | 32,900 | 1.57 | 1.65 | 1.14 | 1.23 | 0.70 | 0.73 | 0.75 | | | | |
| | Peters Rd - Kingston Pk | 32,900 | 0.91 | 1.09 | 0.89 | 0.99 | 0.86 | 0.90 | 0.92 | K-8 | | ITS/Operational | 24-706 |
| Cedar Ln | Central Ave Pk - Broadway | 12,480 | 1.68 | 1.79 | 1.14 | 1.19 | 1.04 | 1.09 | 1.13 | K-9 | | ITS/Operational | 24-706 |
| Central Ave Pk | Emory Rd - Bruhin Rd | 12,480 | 1.49 | 1.86 | 1.14 | 1.15 | 0.60 | 0.66 | 0.75 | K S | | | 24700 |
| Central Werk | Woodland Ave - Fifth Ave | 24,675 | 1.45 | 1.32 | 1.04 | 1.06 | 0.31 | 0.37 | 0.40 | | | | |
| Central St | Fifth Ave - Summit Hill Dr | 15,600 | 1.35 | 1.52 | 1.04 | 1.16 | 0.24 | 0.27 | 0.30 | | | | |
| | C.L. to John Sevier Hwy | 26,775 | 1.36 | 1.48 | 1.14 | 1.21 | 1.08 | 1.19 | 1.30 | K-10 | | Minor Capacity, Safety | 09-626d (2045MP) |
| | John Sevier Hwy - Lindy Dr | 35,700 | 1.17 | 1.48 | 1.14 | 1.17 | 0.81 | 0.87 | 0.94 | K-10 K-11 | | Minor Capacity, Safety | 24-614 |
| Chanman Illun | Lindy Dr - Stone Rd | 26,775 | 1.09 | 1.16 | 1.08 | 1.17 | 1.04 | 1.10 | 1.17 | K-11 K-12 | | Minor Capacity, Bike/Ped | 24-614 |
| Chapman Hwy | | 32,800 | 1.65 | 1.10 | 1.00 | 1.09 | 0.98 | 1.10 | 1.17 | K-12 K-13 | | | 24-612 |
| | Blount Ave - Fronda Ln Stone Rd - Fronda Ln | 26,775 | 1.05 | 1.90 | 0.98 | 1.41 | 0.98 | 1.01 | 1.03 | K-15 K-14 | | Minor Capacity, Bike/Ped | 24-610 |
| | | | | | | 1.04 | 0.37 | | | K-14 | | Minor Capacity, Bike/Ped | 24-012 |
| Cherry St | Cecil Ave - I-40 W Ramps | 26,775 | 1.15 | 1.10 | 1.10 | | | 0.38 | 0.39 | | | | |
| • | I-40 W Ramps - Magnolia Ave | 32,800 | 1.26 | 1.27 | 1.02 | 1.12 | 0.53 | 0.55 | 0.52 | | X | | 24.600 |
| Choto Rd | Boyd Station Rd - Northshore Dr | 12,480 | 1.64 | 2.31 | 1.14 | 1.22 | 0.43 | 0.47 | 0.54 | | X | Minor Capacity | 24-608 |
| | C.L Powell Dr | 35,700 | 1.48 | 2.03 | 1.19 | 1.43 | 0.67 | 0.71 | 0.76 | | Х | ITS/Operational | 24-706 |
| Clinton Hwy | Powell Dr - Callahan Dr | 35,700 | 2.17 | 2.55 | 1.27 | 1.51 | 0.77 | 0.82 | 0.89 | K-15 | | Roadway Capacity, Bike/Ped | 24-604 |
| | Callahan Dr - Merchant Dr | 35,700 | 1.48 | 2.19 | 1.09 | 1.27 | 0.70 | 0.75 | 0.81 | | Х | ITS/Operational | 24-706 |
| | Merchant Dr - I-275/I-640 | 34,500 | 1.42 | 1.76 | 1.17 | 1.33 | 0.62 | 0.67 | 0.71 | | | | |
| | Campbell Station Rd - Northshore Dr | 31,100 | 3.46 | 1.88 | 1.38 | 1.27 | 0.38 | 0.43 | 0.47 | | Х | ITS/Operational | 24-706 |
| Concord Rd | Kingston Pk - Campbell Station Rd | 31,100 | 1.08 | 0.99 | 1.00 | 0.98 | 0.38 | 0.41 | 0.41 | | | | |
| Concord St | Sutherland Ave - Kingston Pk | 24,675 | 1.44 | 1.51 | 0.97 | 0.96 | 0.27 | 0.31 | 0.32 | | | | |
| | Alcoa Hwy Ramps - 22nd St | 31,160 | 1.68 | 1.99 | 1.38 | 1.67 | 1.03 | 1.17 | 1.18 | K-16 | | ITS/Operational | 24-706 |
| Cumberland Ave | 22nd St - 17th St | 24,600 | 1.20 | 1.67 | 1.08 | 1.46 | 0.61 | 0.62 | 0.62 | | | | |
| | 17th St - 11th St | 31,160 | 1.09 | 1.51 | 0.94 | 0.99 | 0.33 | 0.37 | 0.38 | | | | |
| | 11th St - Henley St | 31,160 | 1.14 | 1.24 | 0.99 | 1.10 | 0.42 | 0.50 | 0.52 | | | | |
| Dutchtown Rd | Pellissippi Pkwy - Cedar Bluff Rd | 16,380 | 1.52 | 1.69 | 1.21 | 1.24 | 0.67 | 0.73 | 0.80 | | | | |
| Ebenezer Rd | Northshore Dr - S. Peters Rd | 32,900 | 1.30 | 1.32 | 1.12 | 1.11 | 0.45 | 0.49 | 0.51 | | | | |
| Ed Shouse Dr | Western Ave - Middlebrook Pk | 32,900 | 1.82 | 2.83 | 1.14 | 1.37 | 0.66 | 0.72 | 0.76 | | Х | ITS/Operational | 24-706 |
| | Tazewell Pk - Grainger County Line | 13,520 | 1.13 | 1.11 | 1.04 | 1.04 | 0.23 | 0.25 | 0.31 | | | | |
| | Tazewell Pk - Maynardville Pk | 13,520 | 1.96 | 1.71 | 1.15 | 1.16 | 0.83 | 0.89 | 1.00 | K-17 | | Roadway Capacity, Bike/Ped | 09-643 |
| | Maynardville Pk - Norris Fwy | 13,520 | 1.72 | 1.63 | 1.46 | 1.53 | 1.03 | 1.12 | 1.27 | K-18 | | ITS/Operational | 24-706 |
| | Norris Fwy - Dry Gap Pk | 35,700 | 1.28 | 1.12 | 1.04 | 1.03 | 0.60 | 0.65 | 0.72 | | | | |
| Emory Rd | Dry Gap Pk - I-75N Ramps | 34,500 | 3.05 | 3.29 | 1.65 | 1.82 | 0.94 | 1.01 | 1.09 | K-19 | | Interchange Reconfiguration | 09-652 |
| | Beaver Ridge Rd - Clinton Hwy | 13,520 | 1.84 | 1.97 | 1.14 | 1.19 | 0.81 | 0.93 | 1.07 | K-20 | | Roadway Capacity, Bike/Ped | 24-609 |
| | Clinton Hwy - Powell Dr | 35,700 | 2.52 | 2.52 | 1.27 | 1.17 | 0.24 | 0.25 | 0.28 | | Х | ITS/Operational | 24-706 |
| | Powell Dr - I-75 N Ramps | 34,500 | 1.96 | 2.65 | 1.23 | 1.43 | 0.64 | 0.69 | 0.77 | | Х | Interchange Reconfiguration | 09-652 |
| Everett Rd | Yarnell Rd - Kingston Pk | 12,480 | 1.14 | 1.16 | 1.02 | 1.02 | 0.28 | 0.41 | 0.55 | | | 5 5 | |
| Francis Rd | Middlebrook Pk - Amherst Rd | 12,480 | 1.54 | 1.79 | 1.21 | 1.26 | 0.40 | 0.41 | 0.44 | | 1 | | |
| | Westland Dr - I-40 E Ramps | 12,480 | 1.66 | 2.01 | 1.16 | 1.21 | 0.93 | 0.99 | 1.01 | K-21 | 1 | ITS/Operational | 24-706 |
| Gallaher View Rd | I-40 E Ramps - Middlebrook Pk | 32,900 | 1.84 | 1.94 | 1.19 | 1.27 | 0.70 | 0.73 | 0.75 | · · · | 1 | , | |
| | Morrell Rd - Montvue Rd | 32,900 | 0.94 | 0.95 | 0.94 | 0.95 | 0.37 | 0.39 | 0.39 | | 1 | | |
| Gleason Dr | Montvue Rd - Ebenezer Rd | 12,480 | 1.32 | 1.33 | 1.14 | 1.18 | 0.84 | 0.88 | 0.89 | K-22 | 1 | ITS/Operational | 24-706 |
| Grigsby Chapel Rd | Smith Rd - Campbell Station Rd | 16,380 | 1.23 | 1.15 | 1.14 | 1.10 | 1.00 | 1.22 | 1.39 | K-22 | <u> </u> | ITS/Operational | 13-813 (2045MP) |
| | Steele Rd - Hickory Creek Rd | 16,380 | 1.99 | 1.15 | 1.10 | 1.14 | 0.47 | 0.68 | 0.93 | K-24 | 1 | Roadway Capacity, Bike/Ped | 24-621 |
| Hardin Valley Rd | Steele Rd - Pellissippi SB Ramps | 16,380 | 1.55 | 1.30 | 1.23 | 1.14 | 0.47 | 1.11 | 1.29 | K-24 K-25 | <u> </u> | Roadway Capacity, Bike/Ped | 24-621 |
| | Pellissippi SB Ramps - Middlebrook Pk | 32,900 | 2.15 | 2.11 | 1.34 | 1.33 | 0.82 | 0.93 | 1.29 | K-25 | } | ITS/Operational | 24-021 |
| Heiskell Ave/Texas Ave | Western Ave - Bruhin Rd | - | 1.72 | 2.11 | 1.55 | 1.34 | 1.06 | | | K-20 K-27 | <u> </u> | | 24-706 |
| HEISKEII AVE/TEXAS AVE | western Ave - brunn Ku | 12,480 | 1.72 | 2.20 | 1.12 | 1.20 | 1.00 | 1.12 | 1.18 | N-27 | l | ITS/Operational | 24-700 |

| | Constituent timite | C | AM Max | PM Max | | | 2022.1/10 | 2025 1/10 | 2050.1/0 | Congested | Spot | Duran and Chap Church size | Mobility Plan |
|-----------------------------------|--|---------------------------|--------------------|--------------|--------------|--------------------|------------------|------------------|-------------------------|-------------|------------|-------------------------------|-------------------|
| Corridor Name Henley St | Corridor Limits Summit Hill Dr - Blount Ave | Capacity 49,300 | TTI 1.64 | 1.63 | 1.12 | PM Avg TTI 1.19 | 2022 V/C 0.53 | 2035 V/C 0.58 | 2050 V/C 0.60 | Corridor ID | Congestion | Proposed CMP Strategies | Project ID |
| 1 | Buttermilk Rd - Hardin Valley Rd | | 1.84 | | 1.12 | 1.19 | 0.35 | 0.38 | 0.80 | | | | |
| Hickory Creek Rd | · · · · · · | 12,480 76,500 | 1.32 | 1.50 1.72 | 1.06 | 1.04 | 0.25 | 0.33 | 1.07 | K-28 | | ITS/Operational | 18-201 (2045MP) |
| | Dutchtown Rd - I-40 | - | | 1.72 | | 1.37 | 0.64 | 0.99 | 0.80 | K-28 | | 115/Operational | 18-201 (2045IVIP) |
| I-140 | C.L Westland Dr Westland Dr - I-40 | 76,500 76,500 | 1.25 1.23 | 1.36 | 1.05 1.05 | 1.06 | 0.84 | 0.72 | 0.80 | K-29 | | ITS/Operational | 18-201 (2045MP) |
| I-275 | | | 1.25 | 1.29 | 1.05 | 1.15 | 0.82 | 0.62 | 0.66 | K-29 | | 113/Operational | 16-201 (2045101P) |
| 1-275 | I-640 - I-40 Alcoa Hwy - James White Pkwy | 115,300 | 1.22 | 2.72 | 1.05 | 1.01 | 1.01 | 1.03 | | K-30 | | ITS/Operational | |
| | | 135,300 | 0.98 | 0.99 | | | | | 1.02 | K-30 | | ITS/Operational | |
| | Midway Rd - Sevier County Line | 120,200 | | | 0.96 | 0.97 | 0.64 | 0.73 | 0.83 | K 21 | | ITC (On exetience) | |
| 1-40 | Midway Rd - I-640 | 120,200 | 0.98 | 1.19 | 0.96 | 1.02 | 0.76 | 0.87 | 0.98 | K-31 | | ITS/Operational | |
| | I-640 - James White Pkwy | 115,300 | 1.93 | 1.25 | 1.11 | 1.05 | 0.78 | 0.82 | 0.83 | 14.22 | | | 24,604 |
| | I-640 - Alcoa Hwy | 156,000 | 1.74 | 3.25 | 1.24 | 2.20 | 0.86 | 0.91 | 0.91 | K-32 | | Roadway Capacity | 21-601 |
| | Loudon County Line - Lovell Rd | 120,200 | 1.25 | 1.81 | 1.06 | 1.36 | 0.99 | 1.07 | 1.11 | K-33 | | Roadway Capacity | 09-691 |
| | Lovell Rd - I-140 | 156,000 | 1.22 | 2.99 | 1.03 | 2.35 | 0.91 | 0.98 | 1.03 | K-34 | | Corridor Study | |
| | I-640 Ramps | 120,200 | 1.69 | 2.19 | 1.26 | 1.50 | 0.95 | 1.01 | 1.00 | K-35 | | Roadway Capacity | 21-601 |
| 1-40/1-75 | I-640 - Papermill Dr | 176,000 | 1.32 | 1.44 | 1.08 | 1.23 | 1.16 | 1.23 | 1.25 | K-36 | | Corridor Study | |
| | Papermill Dr - West Hills | 176,000 | 1.13 | 1.65 | 1.05 | 1.35 | 1.14 | 1.21 | 1.23 | K-37 | | Corridor Study | |
| | West Hills - Gallaher View Rd | 176,000 | 1.17 | 1.62 | 1.11 | 1.31 | 1.12 | 1.19 | 1.22 | K-38 | | Corridor Study | |
| | Gallaher View Rd - Cedar Bluff Rd | 176,000 | 1.43 | 2.87 | 1.24 | 2.05 | 1.08 | 1.15 | 1.18 | K-39 | | Corridor Study | |
| | Cedar Bluff Rd - Pellissippi Pkwy | 176,000 | 1.34 | 3.30 | 1.16 | 2.28 | 1.02 | 1.10 | 1.15 | K-40 | | Corridor Study | |
| | I-275 - Broadway | 120,200 | 1.19 | 1.13 | 1.00 | 1.04 | 0.73 | 0.81 | 0.91 | K-41 | | | |
| I-640 | Broadway - I-40E | 120,200 | 1.03 | 1.14 | 0.99 | 1.05 | 0.52 | 0.60 | 0.72 | | | | |
| I-640/I-75 | I-40W - I-275 | 120,200 | 1.72 | 1.41 | 1.18 | 1.16 | 0.79 | 0.84 | 0.91 | K-42 | | Interchange Improvements | 09-654 |
| | Emory Rd - I-640 | 120,200 | 1.27 | 1.22 | 1.05 | 1.05 | 0.75 | 0.80 | 0.84 | | | | |
| I-75 | Emory Rd - Raccoon Valley Rd | 76,500 | 0.98 | 1.06 | 0.96 | 1.00 | 0.76 | 0.79 | 0.83 | | | Roadway Capacity | 09-692 |
| Inskip Dr | Clinton Hwy - Cedar Ln | 12,480 | 1.05 | 1.05 | 1.01 | 1.05 | 0.44 | 0.48 | 0.50 | | | | |
| | I-40 - Hill Ave | 70,200 | 1.16 | 1.12 | 1.04 | 1.03 | 0.38 | 0.41 | 0.43 | | | | |
| James White Pkwy | Hill Ave - Moody Ave | 70,200 | 1.27 | 1.17 | 1.07 | 1.05 | 0.20 | 0.24 | 0.27 | | | | 21-606 |
| | Asheville Hwy - Strawberry Plains Pk | 17,745 | 3.40 | 3.09 | 1.43 | 1.38 | 0.88 | 0.94 | 1.09 | K-43 | | ITS/Operational | 24-706 |
| | Strawberry Plains Pk - Chapman Hwy | 17,745 | 1.69 | 1.64 | 1.17 | 1.20 | 0.76 | 0.82 | 1.02 | K-44 | | ITS/Operational | 24-706 |
| John Sevier Hwy | Chapman Hwy - Martin Mill Pk | 17,745 | 1.48 | 1.38 | 1.08 | 1.07 | 0.92 | 1.01 | 1.16 | K-45 | | Roadway Capacity | 09-644 |
| | Martin Mill Pk - Alcoa Hwy | 17,745 | 2.90 | 3.51 | 1.30 | 1.38 | 1.12 | 1.22 | 1.38 | K-46 | | Roadway Capacity | 09-644 |
| | Loudon County Line - Campbell Station Rd | 35,700 | 1.38 | 1.59 | 1.11 | 1.17 | 0.79 | 0.94 | 1.13 | K-47 | | ITS/Operational | 13-813 (2045MP) |
| | Campbell Station Rd - Lovell Rd | 34,500 | 1.79 | 2.08 | 1.26 | 1.54 | 0.82 | 0.93 | 1.04 | K-48 | | ITS/Operational | 13-813 (2045MP) |
| | Lovell Rd - Mabry Hood Rd | 34,500 | 1.58 | 2.36 | 1.32 | 1.51 | 0.98 | 1.06 | 1.10 | K-49 | | ITS/Operational | 24-617 |
| | Mabry Hood Rd - Cedar Bluff Rd | 32,800 | 1.64 | 1.82 | 1.09 | 1.33 | 0.84 | 0.90 | 0.90 | K-50 | | ITS/Operational | 24-617 |
| | Cedar Bluff Rd - Gallaher View Rd | 32,800 | 1.48 | 1.99 | 1.15 | 1.50 | 0.92 | 0.98 | 0.99 | K-51 | | ITS/Operational | 24-617 |
| Kingston Pk | Gallaher View Rd - Morrell Rd | 32,800 | 1.26 | 1.67 | 1.04 | 1.21 | 0.77 | 0.81 | 0.80 | - | | -/ | - |
| | Morrell Rd - Papermill Rd | 32,800 | 1.17 | 1.35 | 1.02 | 1.22 | 0.79 | 0.85 | 0.85 | K-51 | | ITS/Operational | 24-617 |
| | Papermill Rd - Northshore Dr | 34,500 | 1.13 | 1.37 | 1.01 | 1.17 | 0.64 | 0.71 | 0.72 | | | | |
| | Northshore Dr - Lyons View Pk | 32,800 | 1.61 | 1.95 | 1.17 | 1.45 | 0.51 | 0.55 | 0.55 | | | | |
| | Lyons View Pk - Alcoa Hwy N Ramps | 24,600 | 1.40 | 1.71 | 1.08 | 1.29 | 1.08 | 1.20 | 1.22 | K-52 | | ITS/Operational | 24-617 |
| Liberty St | Sutherland Ave - Keith Ave | 24,675 | 1.43 | 1.38 | 1.00 | 1.25 | 0.35 | 0.37 | 0.38 | 1. 52 | | | 2.01/ |
| | Kingston Pk - I-40 E Ramps | 34,500 | 1.30 | 1.50 | 1.02 | 1.01 | 0.99 | 1.08 | 1.14 | K-53 | | ITS/Operational, Intersection | 24-606 |
| | I-40 E Ramps - Outlet Dr | 34,500 | 1.76 | 1.72 | 1.30 | 1.32 | 0.93 | 1.02 | 1.08 | K-54 | | ITS/Operational | 24-706 |
| Lovell Rd | Outlet Dr - Pellissippi Pkwy | 35,700 | 1.40 | 1.57 | 1.30 | 1.12 | 0.55 | 0.61 | 0.66 | N 5-7 | | | 24,00 |
| | Pellissippi Pkwy - Middlebrook Pk | 13,520 | 1.40 | 1.76 | 1.11 | 1.18 | 1.14 | 1.21 | 1.32 | K-55 | | Roadway Capacity | 09-637 |
| Lyons View Pk | Northshore Dr - Kingston Pk | 12,480 | 1.31 | 2.15 | 1.13 | 1.27 | 1.14 | 1.21 | 1.32 | K-55 | | Intersection Improvements | 24-601 |
| Magnolia Ave | Prosser Rd - Cherry St | 34,500 | 1.25 | 1.24 | 1.02 | 1.29 | 0.35 | 0.49 | 0.67 | N-30 | | | 24-001 |
| - | - | | 1.11 | | 1.03 | 1.12 | 0.35 | 0.49 | 0.87 | | | | |
| Martin Mill Pk | John Sevier Hwy - Ogle Ave | 12,480 | | 1.57 | | | | | | | | | |
| iviartin iviiii PK/Maryville PK/O | Ogle Ave Blount County Line - Chapman Hwy | 13,520 | 1.28 | 1.29 | 1.09 | 1.08 | 0.40 | 0.45 | 0.54 | | | | |

| | | | AM Max | PM Max | | | | | | Congested | Spot | | Mobility Plan |
|------------------------|--|----------|--------|--------|------|------------|--------------|----------|----------|-------------|------------|-----------------------------|-------------------|
| Corridor Name | Corridor Limits | Capacity | TTI | TTI | | PM Avg TTI | - | 2035 V/C | 2050 V/C | Corridor ID | Congestion | Proposed CMP Strategies | Project ID |
| | C.L Emory Rd | 35,700 | 1.57 | 1.43 | 1.06 | 1.03 | 0.43 | 0.48 | 0.54 | | | | |
| Maynardville Hwy | Emory Rd - Brown Gap Rd | 34,500 | 1.94 | 2.90 | 1.26 | 1.54 | 1.14 | 1.22 | 1.30 | K-57 | | ITS/Operational | 19-604 |
| McFee Rd | Kingston Pk - Boyd Station Rd | 16,380 | 1.35 | 1.32 | 1.09 | 1.10 | 0.50 | 0.60 | 0.68 | | | | |
| | Pleasant Ridge Rd - Clinton Hwy | 16,380 | 1.31 | 1.51 | 1.16 | 1.15 | 0.61 | 0.66 | 0.71 | | | | |
| Merchant Dr | Clinton Hwy - Central Ave Pk | 32,900 | 1.51 | 2.15 | 1.16 | 1.40 | 0.66 | 0.69 | 0.72 | | Х | ITS/Operational | 24-706 |
| | Vanosdale Rd - Weisgarber Rd | 35,700 | 1.46 | 1.73 | 1.14 | 1.25 | 0.66 | 0.74 | 0.79 | | | | |
| | Weisgarber Rd - Ed Shouse Rd | 34,500 | 1.45 | 1.68 | 1.19 | 1.21 | 0.67 | 0.75 | 0.80 | | | | |
| | Ed Shouse Rd - Liberty St | 35,700 | 1.33 | 1.58 | 1.06 | 1.16 | 0.40 | 0.44 | 0.46 | | | | |
| Middlebrook Pk | Liberty St - Western Ave | 35,700 | 1.44 | 1.62 | 1.14 | 1.21 | 0.45 | 0.50 | 0.51 | | | | |
| | Hardin Valley Rd - Cedar Bluff Rd | 35,700 | 1.58 | 1.61 | 1.09 | 1.17 | 0.52 | 0.57 | 0.62 | | | | |
| | Cedar Bluff Rd - Gallaher View Rd | 35,700 | 2.22 | 3.63 | 1.26 | 1.52 | 0.70 | 0.77 | 0.85 | | Х | ITS/Operational | 18-603 (2045MP) |
| | Gallaher View Rd - Vanosdale Rd | 34,500 | 2.50 | 2.85 | 1.48 | 1.57 | 0.69 | 0.77 | 0.84 | | Х | ITS/Operational | 18-603 (2045MP) |
| | Mill Rd - Roberts Rd | 12,480 | 1.21 | 1.15 | 1.06 | 1.03 | 0.26 | 0.29 | 0.36 | | | | |
| NAIL and a surger Dis | Washington Pk - I-640 W Ramps | 12,480 | 1.40 | 1.93 | 1.14 | 1.36 | 0.64 | 0.73 | 0.87 | K-58 | | ITS/Operational | 24-706 |
| Millertown Pk | I-640 W Ramps - Loves Creek Rd | 32,900 | 1.64 | 2.22 | 1.37 | 1.77 | 0.63 | 0.68 | 0.79 | | Х | ITS/Operational | 24-706 |
| | Loves Creek Rd - Harris Rd | 12,480 | 1.49 | 1.57 | 1.10 | 1.10 | 0.62 | 0.68 | 0.86 | K-59 | Ī | ITS/Operational | 24-706 |
| Moody Ave | Chapman Hwy - James White Pkwy | 32,900 | 1.31 | 1.36 | 1.09 | 1.11 | 0.24 | 0.28 | 0.33 | | | | |
| | Northshore Dr - Westland Dr | 12,480 | 1.38 | 1.57 | 1.32 | 1.25 | 0.68 | 0.71 | 0.73 | | | | |
| Morrell Rd | Westland Dr - Kingston Pk | 32,900 | 1.48 | 1.92 | 0.94 | 1.24 | 0.57 | 0.59 | 0.61 | | | | |
| | Kingston Pk - Joe Johnson Dr | 35,700 | 1.86 | 1.98 | 1.20 | 1.22 | 0.39 | 0.46 | 0.48 | | | | |
| Neyland Dr | Joe Johnson Dr - Lake Loudoun Blvd | 35,700 | 0.99 | 1.02 | 0.92 | 0.94 | 0.38 | 0.47 | 0.51 | | | | |
| | Lake Loudoun Blvd - Walnut St | 35,700 | 1.10 | 1.16 | 1.05 | 1.14 | 0.38 | 0.49 | 0.54 | | | | |
| Norris Fwy | Maynardville Hwy - Union County Line | 13,520 | 1.45 | 1.65 | 1.07 | 1.08 | 0.67 | 0.72 | 0.80 | | | | |
| | Choto Rd - Concord Rd | 12,480 | 2.42 | 2.62 | 1.22 | 1.25 | 1.19 | 1.30 | 1.41 | K-60 | | Minor Capacity | 09-680 |
| | Concord Rd - I-140 E Ramps | 13,520 | 2.06 | 2.49 | 1.29 | 1.39 | 1.07 | 1.16 | 1.27 | K-61 | | Minor Capacity | 09-646 |
| | I-140 E Ramps - Ebenezer Rd | 34,500 | 1.51 | 1.93 | 1.32 | 1.64 | 0.73 | 0.80 | 0.85 | | | | |
| Northshore Dr | Ebenezer Rd - Morrell Rd | 13,520 | 1.36 | 1.38 | 1.08 | 1.15 | 1.05 | 1.11 | 1.16 | K-62 | | Minor Capacity | 09-645 |
| | Westland Dr - Kingston Pk | 35,700 | 1.51 | 2.67 | 1.22 | 1.48 | 0.44 | 0.46 | 0.47 | | Х | ITS/Operational | 24-706 |
| | Kingston Pk - Papermill Dr | 32,800 | 1.17 | 1.32 | 0.96 | 1.06 | 0.75 | 0.77 | 0.76 | | ~ | Minor Capacity | 09-658 |
| | Morrell Rd - Westland Dr | 13,520 | 1.54 | 1.69 | 1.22 | 1.27 | 1.35 | 1.43 | 1.48 | K-63 | | ITS/Operational | 24-706 |
| | Pellissippi Pkwy - Byington-Beaver Ridge | 13,520 | 1.26 | 2.29 | 1.10 | 1.18 | 0.77 | 0.85 | 0.94 | K-64 | | Roadway Capacity | 09-673 |
| | Byington-Beaver Ridge - Harrell Rd | 16,900 | 1.89 | 1.70 | 1.41 | 1.30 | 1.02 | 1.10 | 1.21 | K-65 | | Roadway Capacity | 09-638 |
| Oak Ridge Hwy | Harrell Rd - Schaad Rd | 13,520 | 2.10 | 2.09 | 1.50 | 1.53 | 1.26 | 1.37 | 1.51 | K-66 | | Roadway Capacity | 09-638 |
| | C.L Oak Ridge Hwy | 61,800 | 1.06 | 2.05 | 1.02 | 1.40 | 0.81 | 0.85 | 0.89 | K-67 | | Roadway Cap, Access Control | 09-647 |
| | Kingston Pk - Weisgarber Rd | 12,480 | #N/A | #N/A | #N/A | #N/A | 1.25 | 1.28 | 1.25 | K-68 | | Minor Capacity | 09-689 |
| Papermill Dr | Northshore Dr - I-40 W Ramps | 34,500 | 1.31 | 1.66 | 1.07 | 1.11 | 0.71 | 0.73 | 0.71 | K-00 | | | 05-085 |
| | I-40 W Ramps - Liberty St | 12,480 | 1.43 | 1.00 | 1.19 | 1.15 | 0.65 | 0.69 | 0.68 | | | | |
| | Campbell Station Rd - Lovell Rd | 32,900 | 1.43 | 2.00 | 1.19 | 1.13 | 0.03 | 0.85 | 0.08 | K-69 | | ITS/Operational | 13-813 (2045MP) |
| Parkside Dr | Lovell Rd - Mabry Hood Rd | 32,900 | 1.37 | 1.57 | 1.01 | 1.14 | 0.45 | 0.49 | 0.50 | R-03 | | | 13-813 (20451017) |
| | Hardin Valley Rd - Dutchtown Rd | 61,800 | 1.37 | 1.37 | 1.07 | 1.14 | 0.45 | 1.06 | 1.11 | K-70 | | Roadway Cap, Access Control | 09-647 |
| Pellissippi Pkwy | - | | | | | | | | | K-70 | | Roadway Cap, Access Control | 09-047 |
| | Oak Ridge Hwy - Hardin Valley Rd | 61,800 | 1.08 | 1.10 | 1.03 | 1.03 | 0.73 0.69 | 0.78 | 0.83 | | | | |
| Data a Dil | Seven Oaks Dr - Cedar Bluff Rd | 32,900 | 1.10 | 1.43 | 0.90 | 1.10 | | 0.71 | 0.70 | | | | |
| Peters Rd | Cedar Bluff Rd - Kingston Pk | 32,900 | 1.00 | 1.23 | 0.93 | 1.06 | 0.45 | 0.48 | 0.48 | | | | |
| Determ Del/De detter D | Kingston Pk - Ebenezer Rd | 32,900 | 1.15 | 1.21 | 1.11 | 1.13 | 0.58 | 0.62 | 0.64 | | | | |
| Peters Rd/Parkside Dr | Mabry Hood Rd - Seven Oaks Dr | 32,900 | 1.05 | 1.20 | 1.03 | 1.12 | 0.43 | 0.46 | 0.46 | | | | |
| | Schaad Rd - Merchant Dr | 16,380 | 1.35 | 1.50 | 1.19 | 1.24 | 0.72 | 0.77 | 0.82 | | | | 0.4 705 |
| Pleasant Ridge Rd | Merchant Dr - Sanderson Rd | 16,380 | 1.24 | 1.12 | 1.17 | 1.05 | 0.78 | 0.84 | 0.88 | K-71 | | ITS/Operational | 24-706 |
| | Sanderson Rd - Western Ave | 16,380 | 1.80 | 1.75 | 1.35 | 1.25 | 0.35 | 0.39 | 0.40 | | | | a |
| Powell Dr | Clinton Hwy - Emory Rd | 34,500 | 2.76 | 3.37 | 1.27 | 1.36 | 0.34 | 0.37 | 0.42 | | Х | ITS/Operational | 24-706 |
| Raccoon Valley Dr | Norris Fwy - Anderson County Line | 13,520 | 1.26 | 1.33 | 1.03 | 1.02 | 0.34 | 0.34 | 0.39 | | | | |

| Corridor Name | Corridor Limits | Capacity | AM Max TTI | PM Max TTI | ΔΜ Δνσ ΤΤΙ | PM Avg TTI | 2022 V/C | 2035 V/C | 2050 V/C | Congested Corridor ID | Spot Congestion | Proposed CMP Strategies | Mobility Plan Project ID |
|------------------------|--|----------|---------------|---------------|------------|------------|----------|---|----------|--------------------------|--------------------|----------------------------|-----------------------------|
| | Roberts Rd - Grainger County Line | 35,700 | 1.76 | 2.24 | 1.13 | 1.12 | 0.30 | 0.32 | 0.35 | | X | ITS/Operational | 24-706 |
| | Roberts Rd - Loves Creek Rd | 35,700 | 1.81 | 1.66 | 1.08 | 1.05 | 0.39 | 0.42 | 0.47 | | | | |
| Rutledge Pk | Loves Creek Rd - I-40 W Ramps | 35,700 | 1.65 | 1.48 | 1.29 | 1.28 | 0.59 | 0.62 | 0.69 | | | | |
| | I-40 W Ramps - Prosser Rd | 35,700 | 1.36 | 1.37 | 1.14 | 1.18 | 0.22 | 0.26 | 0.33 | | | | |
| | Pleasant Ridge Rd - Oak Ridge Hwy | 12,480 | 1.04 | 1.24 | 0.90 | 1.01 | 1.32 | 1.42 | 1.66 | K-72 | | Roadway Capacity | 09-625 |
| Schaad Rd | Clinton Hwy - Pleasant Ridge Rd | 32,900 | 1.39 | 1.76 | 1.29 | 1.54 | 0.63 | 0.67 | 0.77 | | | | |
| Smith Rd | Kingston Pk - Grigsby Chapel Rd | 12,480 | 1.38 | 1.28 | 1.15 | 1.13 | 0.63 | 0.80 | 0.93 | K-73 | | ITS/Operational | 24-706 |
| | John Sevier Hwy - Pine Grove Rd | 12,480 | 1.39 | 1.51 | 1.03 | 1.04 | 0.77 | 0.84 | 1.03 | K-74 | | ITS/Operational | 24-706 |
| Strawberry Plains Pk | Pine Grove Rd - Huckleberry Springs Rd | 32,900 | 2.16 | 2.04 | 1.37 | 1.41 | 0.49 | 0.53 | 0.66 | | х | ITS/Operational | 24-706 |
| | Huckleberry Springs Rd - Asheville Hwy | 12,480 | 1.10 | 1.05 | 1.00 | 0.94 | 0.44 | 0.50 | 0.69 | | ~ | | 21700 |
| | Broadway - Central St | 31,700 | 1.24 | 1.16 | 0.97 | 0.99 | 0.42 | 0.48 | 0.55 | | | | |
| Summit Hill Dr | Central St - MLK Ave | 31,700 | 1.63 | 1.53 | 1.12 | 1.04 | 0.38 | 0.40 | 0.31 | | | | |
| | Westwood Rd - Hollywood Rd | 16,380 | 1.39 | 1.53 | 1.03 | 1.12 | 0.33 | 0.35 | 0.36 | | | | |
| Sutherland Ave | Hollywood Rd - Liberty St | 12,480 | 1.35 | 1.90 | 1.17 | 1.32 | 1.08 | 1.14 | 1.17 | K-75 | | ITS/Operational | 24-706 |
| | Liberty St - Middlebrook Pk | 12,480 | 1.79 | 2.01 | 1.16 | 1.19 | 0.95 | 1.03 | 1.05 | K-76 | | ITS/Operational | 24-706 |
| | Emory Rd - Murphy Rd | 13,520 | 1.79 | 1.41 | 1.10 | 1.19 | 1.08 | 1.15 | 1.03 | K-70 | | Intersection Improvements | 24-700 |
| | Murphy Rd - Jacksboro Pk | 13,520 | 2.20 | 1.41 | 1.10 | 1.14 | 1.08 | 1.13 | 1.24 | K-78 | | ITS/Operational | 24-007 |
| Tazewell Pk | Jacksboro Pk - Old Broadway | 13,520 | 1.34 | 2.82 | 1.20 | 1.23 | 1.07 | 1.15 | 1.21 | K-78 | | ITS/Operational | 24-706 |
| | | | 1.34 | | 1.15 | 1.01 | 0.47 | 0.54 | 0.65 | K-79 | | TIS/Operational | 24-706 |
| Turkey Creek Rd | Virtue Rd - Concord Rd | 12,480 | 1.15 | 1.19 1.89 | 1.01 | 1.00 | 1.01 | | | K-80 | | ITS (Operational | 24-706 |
| Vanosdale Rd | Kingston Pk - Middlebrook Pk | 12,480 | | | | | | 1.04 | 1.06 | K-80 | | ITS/Operational | 24-706 |
| Virtue Rd | Kingston Pk - Boyd Station Rd | 12,480 | 1.11 | 1.11 | 1.05 | 1.04 | 0.41 | 0.43 | 0.47 | | | | |
| Volunteer Blvd | Cumberland Ave - Lake Loudoun Blvd | 32,900 | 1.26 | 1.44 | 0.92 | 0.93 | 0.37 | 0.50 | 0.48 | | | | |
| | Lake Loudoun Blvd - Cumberland Ave | 32,900 | 1.18 | 1.26 | 1.13 | 1.14 | 0.28 | 0.36 | 0.36 | K 04 | | | 24 705 |
| | Murphy Rd - Maloneyville Rd | 12,480 | 1.53 | 1.13 | 1.22 | 1.04 | 0.68 | 0.75 | 1.02 | K-81 | | ITS/Operational | 24-706 |
| Washington Pk | Millertown Pk - I-640 WB Ramps | 15,600 | 1.05 | 1.36 | 0.97 | 1.20 | 0.54 | 0.61 | 0.74 | | | | |
| | I-640 WB Ramps - Murphy Rd | 15,600 | 1.76 | 1.88 | 1.16 | 1.33 | 1.20 | 1.33 | 1.58 | K-82 | | Roadway Capacity, Bike/Ped | 09-615 |
| Watt Rd | Everett Rd - Kingston Pk | 16,380 | 1.77 | 1.72 | 1.11 | 1.13 | 0.63 | 0.73 | 0.82 | | | Interchange Improvements | 09-651 |
| Weisgarber Rd | Kingston Pk - Middlebrook Pk | 34,500 | 1.30 | 1.30 | 1.06 | 1.06 | 0.59 | 0.62 | 0.64 | | | | |
| | Schaad Rd - Palmetto Rd | 35,700 | 1.11 | 1.14 | 1.06 | 1.06 | 0.54 | 0.60 | 0.70 | | | | |
| | Palmetto Rd - Third Creek Rd | 35,700 | 1.57 | 1.78 | 1.24 | 1.35 | 0.75 | 0.81 | 0.90 | K-83 | | ITS/Operational | 24-706 |
| | Third Creek Rd - Ed Shouse Dr | 35,700 | 2.13 | 2.28 | 1.79 | 1.87 | 0.66 | 0.70 | 0.77 | | Х | ITS/Operational | 24-706 |
| Western Ave | Ed Shouse Dr - Texas Ave | 51,800 | 1.82 | 2.17 | 1.31 | 1.32 | 0.69 | 0.77 | 0.83 | | Х | ITS/Operational | 24-706 |
| | Texas Ave - Keith Ave | 35,700 | 1.10 | 1.15 | 1.00 | 1.02 | 0.36 | 0.43 | 0.47 | | | | |
| | Keith Ave - University Ave | 35,700 | 1.58 | 1.73 | 1.16 | 1.19 | 0.34 | 0.40 | 0.43 | | | | |
| <u></u> | University Ave - Broadway | 35,700 | 1.61 | 1.91 | 1.17 | 1.37 | 0.48 | 0.57 | 0.60 | | | | |
| | I-140 W Ramps - Ebenezer Rd | 16,380 | 1.75 | 1.87 | 1.39 | 1.38 | 0.89 | 0.98 | 1.03 | K-84 | | ITS/Operational | 24-706 |
| Westland Dr | Ebenezer Rd - Morrell Rd | 12,480 | 1.22 | 1.33 | 1.11 | 1.16 | 0.87 | 0.95 | 0.98 | K-85 | | ITS/Operational | 24-706 |
| | Morrell Rd - Northshore Dr | 12,480 | 1.26 | 1.29 | 0.98 | 1.02 | 0.67 | 0.74 | 0.83 | | | Intersection Improvements | 24-601 |
| | Northshore Dr - I-140 W Ramps | 12,480 | 1.77 | 1.82 | 1.19 | 1.23 | 1.02 | 1.09 | 1.15 | K-86 | | ITS/Operational | 24-706 |
| | Branner St - St. Marys St | 12,480 | 1.08 | 1.06 | 1.04 | 1.02 | 0.97 | 1.04 | 1.09 | K-87 | | Complete Street | 19-606 |
| Woodland Ave | St. Marys St - Broadway | 26,775 | 1.13 | 1.03 | 1.12 | 1.00 | 0.28 | 0.30 | 0.31 | | | | |
| Yarnell Rd | Everett Rd - Lovell Rd | 12,480 | 1.25 | 1.27 | 1.05 | 1.04 | 0.27 | 0.43 | 0.65 | | | | |
| LOUDON COUNTY | | | | | | | | | | | | | |
| Broadway St | Browder Hollow Rd - US 321 | 32,800 | 2.28 | 2.31 | 1.10 | 1.17 | 0.29 | 0.33 | 0.40 | | Х | Intersection Improvements | 17-407 |
| · | Grove St - Sugar Limb Rd | 13,520 | 2.19 | 2.11 | 1.44 | 1.46 | 0.88 | 1.00 | 1.17 | L-1 | | ITS/Operational | 24-706 |
| E. Lee Highway | Sugar Limb Rd - Browder Hollow Rd | 13,520 | 1.12 | 1.20 | 1.03 | 1.05 | 0.67 | 0.79 | 1.00 | L-2 | | ITS/Operational | 24-706 |
| Ford Rd/Muddy Creek Rd | U.S. 11 - U.S. 70 | 12,480 | 1.12 | 1.15 | 1.06 | 1.05 | 0.16 | 0.18 | 0.20 | | | | 2 |
| Harrison Rd | Browder Hollow Rd - Kingston St | 16,380 | 1.31 | 1.13 | 1.12 | 1.06 | 0.50 | 0.61 | 0.20 | | | | |
| 1-40 | US 321 - I-75 | 76,500 | 1.20 | 1.61 | 0.98 | 1.00 | 1.03 | 1.14 | 1.23 | L-3 | | Interchange Improvements | 09-691 |
| 1-40 | | | 1.20 | | 0.00 | 1.00 | 1.00 | and the second se | 1.20 | | | | 0001 |

| | | | AM Max | PM Max | | | | | | Congested | Spot | | Mobility Plan |
|-----------------------|------------------------------------|----------|--------|--------|------------|------------|----------|----------|----------|-------------|------------|---------------------------|---------------|
| Corridor Name | Corridor Limits | Capacity | TTI | TTI | AM Avg TTI | PM Avg TTI | 2022 V/C | 2035 V/C | 2050 V/C | Corridor ID | Congestion | Proposed CMP Strategies | Project ID |
| | SR 72 - Sugar Limb Rd | 76,500 | 1.04 | 1.02 | 1.00 | 1.00 | 0.69 | 0.77 | 0.85 | L-4 | | Roadway Capacity | 21-400c |
| 1-75 | Sugar Limb Rd - US 321 | 76,500 | 1.06 | 1.05 | 0.98 | 1.00 | 0.71 | 0.78 | 0.85 | | | | 21-400d |
| | US 321 - I-40 | 76,500 | 1.08 | 1.44 | 1.00 | 1.12 | 0.82 | 0.88 | 0.92 | L-5 | | Roadway Capacity | 21-400a |
| Kingston St/Old SR 95 | U.S. 321 - U.S. 11 | 12,480 | 1.29 | 1.23 | 1.08 | 1.08 | 0.48 | 0.56 | 0.69 | | | | 24-401 |
| Lee Hwy/Mulberry St | Monroe County Line - SR 72 | 13,520 | 1.79 | 1.58 | 1.08 | 1.07 | 0.34 | 0.40 | 0.51 | | | | |
| Martel Rd | Knox County Line - U.S. 11 | 12,480 | 1.07 | 1.12 | 1.01 | 1.02 | 0.26 | 0.29 | 0.35 | | | | |
| Mulberry St | SR 72 - Grove St | 13,520 | 1.81 | 1.77 | 1.28 | 1.26 | 0.63 | 0.77 | 1.01 | L-6 | | ITS/Operational | 24-706 |
| Shaw Ferry Rd | Town Creek Rd - U.S. 11 | 12,480 | 1.16 | 1.20 | 1.00 | 1.01 | 0.28 | 0.29 | 0.34 | | | | |
| | Roane County Line - I-75 SB Ramps | 16,380 | 1.52 | 1.57 | 1.08 | 1.06 | 0.31 | 0.37 | 0.41 | | | | |
| SR 72 | I-75 SB Ramps - US 11 | 16,380 | 1.44 | 1.48 | 1.15 | 1.19 | 0.86 | 0.97 | 1.09 | L-7 | | ITS/Operational | 24-706 |
| | US 11 - Tellico Pkwy | 13,520 | 1.44 | 1.48 | 1.07 | 1.08 | 0.59 | 0.67 | 0.75 | | | | |
| Sugar Limb Rd | I-75 - U.S. 11 | 12,480 | 1.78 | 1.46 | 1.14 | 1.11 | 0.73 | 0.75 | 0.74 | | | | |
| Tellico Pkwy | SR 72 - U.S. 321 | 16,900 | 1.30 | 1.41 | 1.06 | 1.08 | 0.60 | 0.66 | 0.73 | | | | |
| Town Creek Rd | Kingston St - Ford Rd | 12,480 | 1.53 | 1.68 | 1.14 | 1.12 | 0.10 | 0.11 | 0.12 | | | | |
| US 11 | US 321 - Kingston Pk | 13,520 | 1.66 | 2.43 | 1.12 | 1.20 | 0.77 | 0.92 | 1.08 | L-8 | | Intersection Improvements | 24-402 |
| | US 11 - Simpson Rd | 49,200 | 1.17 | 1.29 | 0.89 | 0.98 | 0.45 | 0.47 | 0.50 | | | | |
| | Simpson Rd - I-75 | 34,500 | 1.96 | 1.92 | 1.23 | 1.36 | 0.70 | 0.73 | 0.78 | | | | |
| 116 224 | I-75 - US 70 | 35,700 | 1.92 | 1.65 | 1.23 | 1.24 | 0.45 | 0.48 | 0.54 | | | | |
| US 321 | Blount County Line - Tellico Pkwy | 35,700 | 1.03 | 1.01 | 1.00 | 0.97 | 0.33 | 0.37 | 0.42 | | | | |
| | Tellico Pkwy - US 11 | 35,700 | 1.24 | 1.27 | 1.06 | 1.07 | 0.69 | 0.75 | 0.80 | | | | |
| | US 70 - I-40 | 35,700 | 1.62 | 2.17 | 1.27 | 1.40 | 0.30 | 0.34 | 0.38 | | Х | ITS/Operational | 24-706 |
| US 70 | Roane County Line - U.S. 11 | 13,520 | 2.56 | 2.14 | 1.37 | 1.27 | 0.44 | 0.54 | 0.69 | | Х | ITS/Operational | 24-706 |
| SEVIER COUNTY | | | | | | | | | | | | | |
| | Chapman Hwy - Porterfield Gap Rd | 13,520 | 1.52 | 1.3 | 1.21 | 1.16 | 1.02 | 1.14 | 1.28 | S-1 | | Minor Capacity | 24-500 |
| Boyds Creek Hwy | Porterfield Gap Rd - SR-66 | 13,520 | 1.31 | 1.38 | 1.06 | 1.07 | 0.75 | 0.87 | 0.99 | S-2 | | Minor Capacity | 24-501 |
| Chapman Hwy | Wye Dr - Boyds Creek Hwy | 35,700 | 1.36 | 1.59 | 1.04 | 1.05 | 0.47 | 0.53 | 0.59 | | | | |
| Chapman Hwy | Boyds Creek Hwy - Knox County Line | 35,700 | 1.18 | 1.47 | 1.07 | 1.16 | 0.79 | 0.87 | 0.96 | S-3 | | Minor Capacity | 24-210 |

Table 5. Capacity Project Justification

| Project ID | Route | Termini | Jurisdiction | Length | Type of Improvement | Capacity Addition | |
|--------------------------|--|--|-------------------------------|--------|---|--|-----------|
| Anderson County P | Projects | | | | | | |
| 09-101a | Edgemoor Rd | Oak Ridge Hwy (SR 62) to Melton Lake Dr | Oak Ridge/ Anderson County | 2.6 | Widen 2-lane to 5-lane | High V/C ratio, operations & public transit not applicable | ļ |
| 09-101B | Edgemoor Rd | Melton Lake Dr to Clinton Hwy (SR 9/US 25W) | Oak Ridge/ Anderson County | 3.6 | Widen 2-lane to 5-lane | High V/C ratio, operations & public transit not applicable | |
| Blount County Pro | ojects | | | | | | |
| 09-202 | Robert C Jackson Extension - Phase 1 | Wildwood Rd to Pellissippi Place Existing Terminus | Alcoa | 0.7 | Construct new 4-lane roadway | High V/C ratio, operations & public transit not applicable | |
| 09-216 | Alcoa Hwy | Pellissippi Pkwy (SR 162) to Knox/Blount County Line | Blount County/ Alcoa | 3.2 | Widen 4-lane to 6-lane with 2 auxiliary lanes between Singleton Station Rd and Topside Rd (SR 333) | High V/C ratio, operations & public transit not applicable | |
| 09-232 | Pellissippi Pkwy (SR-162) Extension | Old Knoxville Hwy (SR-33) to Lamar Alexander Pkwy (US-321/SR-73) | Blount County | 4.4 | Construct new 4-lane roadway | High V/C ratio along bypassed routes, operations & public transit not applicable | |
| 09-239 | Montvale Rd | Montvale Station Rd to Southview Drive | Maryville | 2 | Widen 2-lane to 3-lane | Existing safety issue with geometric deficiencies | |
| 09-242 | W Broadway Ave (SR 33/US 411) | S Cedar St to Lamar Alexander Pkwy (US 321/SR 73) | Maryville/Alcoa | 0.5 | Widen 3-lane to 4-lane | High V/C ratio, operations & public transit not applicable | |
| 09-257 | Relocated Alcoa Hwy (SR-115/US- 129) | Proposed Interchange at Tyson Blvd to existing SR- 115 at S. Singleton Station Rd | Alcoa | 4.9 | Construct new 4-lane divided highway with auxiliary lanes and new interchanges | High V/C ratio, operations & public transit not applicable | |
| 10-260 | Foothills Mall Dr Extension - Phase 2 | Foch St to existing McCammon Ave | Maryville | 0.7 | Construct new 2-lane road | Provides additional network connectivity. Project will alleviate congestion from US 129 Bypass as parallel facility | |
| 13-203 | Robert C Jackson Dr Extension - Phase 2 | Louisville Rd (SR-334) to US 129 Bypass (SR-115) | Alcoa | 0.5 | Construct new 4-lane roadway and grade separated interchange connecting US-129 and Associates Boulevard | Provides additional network connectivity. Project will alleviate congestion from US 129 Bypass as parallel facility | |
| 17-202 | US 129 Widening | Hall Rd (SR 35) to US 321 | Alcoa/ Maryville | 2.6 | Widen 4-lane to 6-lane | High V/C ratio, public transit options not applicable | |
| 24-208 | West Bessemer Street Widening | Calderwood Rd to N Hall Rd | Alcoa | 0.5 | Widen from 2 to 5 lane cross section with center turn lane. Includes sidewalk | High V/C ratio | |
| Knox County Proje | ects | | | | | | |
| 09-615 | Washington Pike | I-640 to Murphy Rd | Knoxville | 1.8 | Widen 2-lane to 4-lane | High V/C ratio | |

| Additional Measure | es to F | Preserve | Capacity |
|--------------------|---------|----------|----------|
|--------------------|---------|----------|----------|

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

Alcoa Hwy projects will include a concrete median barrier to provide partial to full access control. Project also includes a separated multi-use path for pedestrians and bicyclists that will connect Knox and Blount Counties

Project will include full access control (no direct driveway access)

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include accommodations for bikes/peds

Alcoa Hwy projects will include a concrete median barrier to provide partial to full access control. Project also includes a separated multi-use path for pedestrians and bicyclists that will connect Knox and Blount Counties

Project will include accommodations for bikes/peds

Project will include accommodations for bikes/peds

Project will maintain limited access at major roadway intersections only (no direct driveway access) Project will include accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

| 09-625 | Schaad Rd | Oak Ridge Hwy (SR 62) to Pleasant Ridge Rd | Knoxville/ Knox County | 1.5 | Widen 2-lane to 4-lane | High V/C ratio, Project part of plan to complete 4-lane corridor in northwest Knox County between I-75 north and I- 40 west to alleviate | |
|-----------------|---|--|-------------------------------------|-----|---|---|---|
| 09-637 | Lovell Rd | Cedardale Ln to Middlebrook Pike (SR 169) | Knox County | 1.7 | Widen 2-lane to 4-lane | High V/C ratio, public transit options not applicable | Ī |
| 09-638 | Oak Ridge Hwy (SR 62) | Schaad Rd to Byington- Beaver Ridge Rd (SR 131) | Knox County | 4.2 | Widen 2-lane to 4-lane | High V/C ratio, public transit options not applicable | |
| 09-643 | Emory Rd | Maynardville Hwy (SR 33) to Tazewell Pike (SR 331) | Knox County | 4.9 | Widen 2-lane to 4-lane | High V/C ratio, public transit options not applicable | |
| 09-644 | Gov John Sevier Hwy (SR 168) | Alcoa Hwy (SR 115/US 129) to Chapman Hwy (SR 71/US 441) | Knox County | 6.5 | Widen 2-lane to 4-lane | High V/C ratio, public transit options not applicable | |
| 09-647 | Pellissippi Pkwy (SR 162)/Oak Ridge Hwy (SR 62) | Edgemoor Rd (SR 170) to Dutchtown Rd | Knox County | 6 | Corridor safety and capacity improvements to include access control, interchange reconstruction, frontage roads, auxiliary | High V/C ratio, public transit options not applicable | |
| 09-654 | I-75/I-640/I-275 Interchange | Interchange at I-640/I- 275/75 - Exit 3 | Knoxville/Knox County | 0.6 | Interchange reconstruction along with the addition of auxiliary lanes in each direction on I-75 | Geometric deficiencies | |
| 09-673 | Oak Ridge Hwy (SR 62) | Byington Beaver Ridge Rd (SR-131) to Pellissippi Pkwy (SR-162) | Knox County | 4.2 | Widen 2-lane to 4-lane | High V/C ratio | |
| 09-691 | I-40/75 | I-40/I-75 Interchange to Lovell Rd (SR 131) Interchange | Knoxville/ Farragut/ Knox County | 6.7 | Widen 6-lane to 8-lane | High V/C ratio | |
| 09-692 | I-75 | Emory Rd (SR 131) to Raccoon Valley Rd (SR- 170) | Knox County | 4.8 | Widen 4-lane to 6-lane | TDOT's I-75 Corridor Study projects high v/c ratio | |
| 13-603 | I-40/75 | Lovell Rd (SR 131) | Knoxville/Knox County | 1.8 | Construct eastbound and westbound auxiliary lanes between interchanges | High V/C ratio, eliminates bottleneck section | |
| 22-600 | Everett Road Widening | El Camino Ln to Buttermilk Rd | Knox County | 0.8 | Widen from 2 to 4 lanes with median and/or center turn lane, including bicycle and pedestrian facilities | High V/C ratio from future development | |
| Loudon County P | rojects | | | | | | |
| 21-400 (a-d) | I-75 | Pond Creek Road (SR 323) to I-40/I- 75 Junction | Loudon County | 16 | Widen 4-lane to 6-lane | High V/C ratio | Γ |

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project will include median/continuous center turn lane and accommodations for bikes/peds

Project would convert from limited to full access control facility

Full access control facility, ITS

Project will include bike/ped accommodations

Full access control facility, ITS

Full access control facility

Step 8: Evaluate Strategy Effectiveness

The evaluation of congestion issues and mitigation strategies in the Knoxville region is an ongoing process. Though the CMP is a formalized mechanism for guiding and documenting this process, the TPO is actively promoting many CMP strategies with each project implementation. There are a number of planning activities and studies that seek to evaluate and address multimodal mobility issues, including roadway congestion. In addition, there are programs administered by the TPO that strive to reduce SOV trip-making in the region (e.g., bicycle and pedestrian programs, trip reduction programs like Smart Trips, etc.). All of these can occur between Mobility Plan updates and, therefore, may not be reflected in the CMP.

Each Mobility Plan and corresponding CMP update create an opportunity for the TPO to reassess the progress made in addressing regional congestion. In addition, the TPO can evaluate the regional CMP network more frequently to actively monitor its performance and communicate the impacts to stakeholders and the public. With the structure established in this CMP, the TPO will look to do the following:

- Implement a Data Dashboard As travel data becomes more readily available, the TPO can
 work internally to process and visualize congestion-related data on its website. Doing so would
 make the data more accessible to the public and stakeholders as well as support the TPO's
 efforts for transparent decision-making.
- Distribute and Publicize Congestion Data As part of this effort, future Mobility Plan updates, and interim data monitoring, the TPO will organize and distribute the CMP performance data to its member jurisdictions. This will provide a valuable resource for municipalities to assess congestion issues and locally prioritize projects on the network. Sharing this information will result in a continued linkage between the CMP and implementation of regional projects through the TPO's Mobility Plan and TIP. In addition, the TPO can explore opportunities to report this data to the public through the use of annual reports, presentations at TPO meetings, and other engagement activities.
- Track Project Performance With the availability of both current and historic travel time and speed data, the TPO now has the ability to begin tracking the performance of corridors over time. This can be especially useful for assessing the benefits of projects along congested corridors. Beginning with the priority corridors identified in this CMP, the TPO can track travel

times, speeds, and reliability on a recurring basis. This analysis and assessment of traffic operations can help inform the prioritization of projects in the region. As projects move through the TIP and are ultimately implemented, the TPO can also conduct before and after studies to determine corridor-level benefits of roadway projects. Finally, travel demand model updates provide a similar opportunity to assess comprehensive, systemwide impacts of projects. Over time and as more and more projects are implemented, these data and tools can be used to gauge local effectiveness of CMP strategies, ultimately informing future prioritization of congestion mitigation projects.