Comprehensive
Transportation Plan
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January 2019

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## Executive Summary

The Comprehensive Transportation Plan documents how a community would like to see their transportation networks develop to serve their current and future needs. The Plan consists of recommendations for transportation improvements to maintain and expand the CID's infrastructure while fostering a healthy, livable community. The recommended improvements include, but are not limited to new roadway alignments, intersections, roadway widenings, transit, sidewalks, bike facilities, and trails.

## Executive Summary

## Plan Development

The Plan development process consists of four primary steps: Reviewing Existing Conditions, Needs Assessment, Developing Recommendations, and Prioritizing Recommendations.

## Existing Conditions

The first step consisted of reviewing existing conditions. The existing conditions are a snapshot of the transportation system as it exists right now. Vehicle, pedestrian, bicycle, and transit infrastructure was reviewed. Below are some key findings:

- Within the study limits, the US 78 corridor carries between 55,000 and 65,000 vehicles per day during the weekday. The weekend daily volume is slightly lower. Traffic volumes are expected to continue to increase in the corridor at a rate of $1.0 \%$ per year.
- A significant portion of traffic on US 78 is associated with business employees traveling to and from work. To learn more about where these local commuting trips occur, data from the U.S. Census Bureau's Longitudinal Employer-Household Dynamics (LEHD) survey was reviewed. Figure 1.3 .3 shows the home locations of people who work within one mile of the US 78 corridor. Workers generally live in southern and central Gwinnett County, with the highest concentrations of employees living immediately south of the study area.
- The regional Travel Demand Model (TDM) provides insight into regional travel patterns. The model indicates approximately $30 \%$ of trips both began and ended within the subarea around the study area; a high rate of local trips along US 78.
- Another way to analyze Travel Demand Model outputs is to view the driving paths of all vehicles that cross a specific point along a roadway. An analysis was performed of the peak period routing for vehicles that use US 78 just east of Killian Hill Road/Bethany Church Road. This analysis shows a substantial amount of the vehicles use US 78 to get between locations in DeKalb and Gwinnett Counties. Approximately half of passenger vehicles crossing this point during the morning and afternoon periods have an origin or destination directly on the US 78 corridor within the CID boundary. All other trips travel along US 78 to get to a location beyond the study area, or purely as a through route.
- Crash rates for the US 78 corridor were calculated and compared to the statewide averages for urban principal arterials. Table 1.5 .4 summarizes the crash rate calculations and indicates the average crash rate of 505 crashes per 100 million vehicles miles (MVM) for the five year period was slightly lower than the statewide average of 583 in the year 2015.

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## Needs Assessment

The needs assessment identifies where there are opportunities for improvements in the various travel modes and specific locations. The intersections projected to operate at an unacceptable Level-of-Service, or overcapacity, were identified. To improve operations along the US 78 corridor, there are three critical areas which currently experience congestion and where improvements should be prioritized.

- The first area along US 78 is around the E Park Place Blvd intersection, and extending eastward.
- The second area along US 78 is around the Killian Hill Rd/Bethany Church Rd intersection.
- The third area is along US 78, beginning at the SR 124/Scenic Highway intersection and extending to the east.

Additionally, the needs assessment identified opportunities to improve safety, accommodate heavy vehicle movements, improve pedestrian/bicycle mobility, and increase transit service.

## Executive Summary

## Recommendations

The plan includes transportation recommendations to address the identified needs. The consultant team developed project recommendations, identified on Figures 3.1 and 3.2. The 46 projects consist of:

- Intersection Improvements (16 projects)
- Roadways - both new and widenings (15 projects)
- Bridge - (1 project)
- Pedestrian and bicycle facilities (6 projects)
- Transit recommendations (5 projects)
- Other projects (3 projects)

The plan developed project recommendations based on previously identified needs, stakeholder input, and traffic analysis of intersection conditions along US 78. An evaluation of the projects was performed to indicate the potential benefits. Planning level cost estimates were developed for most of the roadway and intersection projects (some projects require further evaluation). The short-term, mid-term, and long-term estimated project cost totals are indicated below.

Planning Level Cost Estimate Totals for Roadway and Intersection Projects

| Short-term | $\$ 32,395,000$ |
| :---: | :---: |
| Mid-term | $\$ 89,870,000$ |
| Long-term | $\$ 79,275,000$ |

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## Implementation

The evaluation analysis presented in the CTP is intended to help the Evermore CID and community understand the relative merits of each of the transportation projects when compared to each other. The actual implementation and phasing of improvements must consider many additional factors, including funding, ease of construction, benefit to community, and other projects and initiatives.

The CTP divides the projects into three potential implementation tiers (short-term, mid-term, and long-term). Additionally, 15 projects were identified as having a high return on investment, as indicated below in Table 3.3.

| Table 3.3- High Return on Investment Projects |  |  |  |
| :---: | :---: | :---: | :---: |
| Project ID | Project Name | Implementation Tier | Planning Level Cost Estimate |
| I-1 | US 78 at E. Park Place Blvd | SHORT | \$950,000 |
| I-2 | NE Quadrant Roadway at US 78/E. Park Place Blvd - Using Glenn Club Drive | SHORT | \$450,000 |
| R-5 | Roadway Improvements on Parker Ct, north of US 78 | SHORT | \$50,000 |
| I-3 | US 78 at Stone Dr/Lowes Driveway | SHORT | \$265,000 |
| I-4 | US 78 at Gresham Road | SHORT | \$2,245,000 |
| I-5 | US 78 at Ross Rd | SHORT | \$280,000 |
| I-6 | US 78 at Killian Hill Rd/Bethany Church Rd | SHORT | \$3,230,000 |
| I-14 | Killian Hill Road at Paxton Lane | SHORT | \$2,030,000 |
| I-7 | US 78 at Hewatt Rd | SHORT | \$2,080,000 |
| R-9 | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Hewatt Road to Britt Road | SHORT | \$16,740,000 |
| R-10 | NE Quadrant Roadway at US 78/Wisteria Drive | SHORT | \$4,075,000 |
| R-6 | New Parallel Local Street, north of US 78, from Pucketts Drive to Lowes Shopping Center (New Location) | MID | \$4,385,000 |
| R-8a | New Parallel local street, north of US 78, from Lake Lucerne Road to Paxton Lane | MID | \$11,780,000 |
| R-12 | SR 124/Scenic Hwy | MID | \$39,300,000 |
| R-11 | US 78/Main Street Widening | LONG | \$16,500,000 |

Implementation of the plan will require coordination and cooperation with adjacent jurisdictions and partner agencies. The CTP has identified projects which the Evermore CID can study further, program, and seek funding based on their priorities. This CTP document provides the recommendations for the Evermore CID leaders and Gwinnett County to consider and implement as they deem appropriate. It is paramount for the Evermore CID and Gwinnett County to continue investment in transportation infrastructure improvements to enhance the quality of life for the community.


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## Transportation Plan

## 1-Existing Conditions

The plan began with reviewing and establishing the existing conditions - a snapshot of the transportation system as it exists now. The process began with a review of previous plans performed at the local, county, and regional level. A summary of the plans and progress was documented.

Vehicle, pedestrian, bicycle, and transit infrastructure was reviewed and summarized. Traffic volumes were collected and traffic patterns were analyzed based on regional travel modeling data. The plan documented operational conditions based on field reviews along the corridor and at key intersections.

The final component in defining the existing conditions was a thorough crash review along the corridor to identify areas of concern. Establishing and understanding the existing conditions allowed the CTP to develop recommended enhancements. This chapter summarizes these components.

## Existing Conditions

## 1.1-Previous Plan Summaries

## Gwinnett County Comprehensive Transportation Plan (2008 and 2017)

The Gwinnett County CTP was completed in September 2008. As a part of the overall Gwinnett Unified Plan, the CTP sought to assess the current state of transportation in the county, and provide recommendations on how transportation and land use strategies could enhance quality of life in Gwinnett County. The plan identified several issues hindering Gwinnett County's explosive growth, including the county's lack of a notable downtown, struggle to foster revitalization in certain areas, and increasing diversity, among several others. From a transportation perspective, increasing traffic volumes along I-85 as well as concerns over frequent crashes in this corridor were also among the various reasons for creating recommendations.

With respect to Evermore CID area - more specifically Highway 78 - the plan provided several transportation-specific recommendations, including the implementation of an access management plan and numerous streetscape projects. These projects were developed considering the goals and vision of the CTP. The list of projects within the Evermore CID corridor derived from the Gwinnett CTP are listed in Table 1.1.1.


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## Destination2040: Gwinnett Comprehensive Transportation Plan

The Gwinnett County Comprehensive Transportation Plan (CTP) -Destination2040provides a framework to improve quality of life for everyone in the County by facilitating the mobility of people and goods safely and efficiently across all modes of transportation. The CTP was unanimously adopted by the Board of Commissioners in December 2017 and included a programmatic list of transportation initiatives and policies for the County to consider in the coming years. The planning team created this list by working with County staff, technical and stakeholder committees, and engaging community members to select implementable projects that can be funded by the County with State and Federal assistance.


## Existing Conditions

## Gwinnett 2040 Unified Plan

The Gwinnett 2040 Unified Plan is the latest update of Gwinnett County's Comprehensive Plan. The Unified Plan provides the County with a framework for long-term development through 2040. The plan provides recommendations on development related to several elements: Transportation, Land Use, Economic Development, Housing, and Broadband Access. In the unincorporated portions of Gwinnett County, the Unified Plan provides an understanding of future expectations of land use. The majority of the area covered by Evermore CID along US 78 is designated "Community Mixed-Use," intended to provide integrated residential, commercial, public, and service-


## Gwinnett 2040 <br> UNIFIEDPLAN

 oriented spaces. The plan is expected to be completed in early 2019.
## Park Place Supplemental LCI (2011) and Update (2013)

The Park Place Supplemental LCI Study was first completed in 2011. The plan examines the viability of redeveloping the now vacant Stone Mountain Tennis Center and adjacent lot of a former Target. The study calls for converting the Tennis Center into a multi-purpose recreation venue, along with a sports training facility and mixed-use development on the former Target site. An endeavor that would require both public and private investment, these facilities would seek to catalyze growth in a once bustling area that has been marked by years of decline. Transportation improvements provided by the plan include a two-way connection between the center and Stone Mountain Park, realigning Bermuda Road, relocating GRTA's 424 bus Park n' Ride lot to the planned recreation center, and even a circulator system providing service to/ from the development.

The update to the LCI was completed in 2013, noting that financial challenges have been the biggest inhibitor to completing many of the projects outlined in the original study. Projects like the realignment of Bermuda Road and redevelopment of the Stone Mountain Tennis Center have not moved forward. Still, since the original plan, numerous vehicular and pedestrian projects have been successfully completed. Within the past year, the county demolished the Tennis Center.


## Existing Conditions

## City of Snellville Comprehensive Plan (2009) and Plan Update (estimated 2019)

The City of Snellville completed its most recent update to its comprehensive plan in 2009, following a community assessment conducted by Jordan, Jones \& Goulding. The plan addresses traffic, safety, and connectivity along Highway 78 as substantial issues plaguing the corridor. Several recommendations were made in the community assessment to improve the Highway 78 corridor, including intersection redesign, altering auto-centric land use patterns around downtown, and considering senior and commuter express bus service. While express bus service has since been added, the updated comprehensive plan does not make any specific recommendations for transportation improvements along the corridor. The city is in the process of updating the comprehensive plan - which is anticipated to be completed in 2019.


## Gwinnett County SPLOST

Gwinnett County administers a Special Purpose Local Option Sales Tax (SPLOST) program, which includes funding for implementation of transportation and other infrastructure improvements throughout the county via a one-cent sales tax. A list of capital projects was developed by representatives of both Gwinnett County and the 16 municipalities within its boundaries. After voters overwhelmingly passed a referendum vote in November 2016, the current SPLOST was extended for an additional six-year cycle, funding projects from FY 2017 through FY 2022. Of the estimated $\$ 950$ million from the SPLOST program, Gwinnett County will devote
 65 percent of its share of SPLOST funding specifically for transportation-related projects. The list of projects currently programmed for construction are listed in
Table 1.1.2.

## Existing Conditions

## ARC Regional Transportation Plans

The Atlanta Region's Plan is a long-range blueprint that details investments that will be made over a 25 year period to improve the region's quality of life. The RTP examines the 20-county metropolitan planning area's transportation needs over the next 25 years and provides a framework to address anticipated growth through transportation strategies to improve mobility and investments to improve the region's transportation system. The RTP is a comprehensive statement of the regional future transportation needs as identified by local jurisdictions, the State and other planning and public stakeholders. The TIP (current FY 2018-2023 TIP) allocates federal funds for use in construction of the highest-


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ORIGINAL ADOPTION: February 2016 LAST UPDATED: September 2017 priority transportation projects in the near term of the RTP. The ARC RTP and TIP included planned and programmed projects within the Evermore CID. The projects supported by these funding mechanisms are listed in Table 1.1.1.

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## Concept 3 Regional Transit Plan

Concept 3 is the Atlanta region's official long-range transit vision. The vision was adopted in 2008 and serves as the transit element of the Aspirations Plan of the Regional Transportation Plan. The Concept 3 Regional Transit Plan identified a future arterial bus rapid transit service along the US 78 corridor, connecting Snellville to downtown Atlanta.


## Existing Conditions

## Summary of Projects from Previous Plans

Project from previous plans are listed in Table 1.1.1. This table summarizes the project name, project description, source of project, and status. Figure 1.1.1 illustrates the completed projects from previous plans. Figure 1.1.2 illustrates identified projects from previous plans.

| Table 1.1.1 - Projects from Previous Plans |  |  |  |
| :---: | :---: | :---: | :---: |
| Project Name | Project Description | Source | Status |
| Killian Hill Road | Pedestrian Facility from Arcado Road to US 78 | $\begin{array}{\|c} \text { Gwinnett CTP } \\ (2008) \\ \hline \end{array}$ | TBD |
| SR 124 Scenic Hwy | Widen SR 124 from US 78 to Ronald Reagan Parkway to 6 lanes | Gwinnett CTP (2008)/ARC RTP | Long Range |
| US 78/SR 10 | Widen US 78 from SR 124 to SR 84 to 6 lanes; add Frontage Rds | Gwinnett CTP (2008) | TBD |
| US 78 Parallel Road | Add parallel access from Hewatt Road to Walton Court | $\begin{gathered} \text { Gwinnett } \\ \text { SPLOST } \\ (2017) \\ \hline \end{gathered}$ | Acquiring ROW |
| Hewatt Road | Sidewalk/pedestrian safety improvements from US 78/ Stone Mountain Highway to Cherie Glen Road | $\begin{gathered} \text { Gwinnett } \\ \text { SPLOST } \\ (2017) \\ \hline \end{gathered}$ | Construction |
| US 78 / SR 10 / Stone Mountain Highway Parallel Road from Lake Lucerne Road to Hewatt Road (New Location) | Adding parallel road from Lake Lucerne Road to Hewatt Road | $\begin{aligned} & \text { Destination } \\ & 2040 \\ & \hline \end{aligned}$ | TBD |
| US 78 / SR 10 / Stone Mountain Highway Parallel Road from Rockbridge Road to Lake Lucerne Road (New Location) | Adding parallel road from Rockbridge Road to Lake Lucerne Road | $\begin{gathered} \text { Destination } \\ 2040 \\ \hline \end{gathered}$ | TBD |
| US 78 / SR 10 / Stone Mountain Highway Parallel Road Connecting Bridge (New Bridge) | Adding new connecting bridge | $\begin{gathered} \text { Destination } \\ 2040 \\ \hline \end{gathered}$ | TBD |
| US 78 West Capacity Improvement | Roadway capacity improvements along US 78 | $\begin{gathered} \text { Destination } \\ 2040 \\ \hline \end{gathered}$ | TBD |
| US 78 / SR 10 Stone Mountain Highway at East Park Place Boulevard (Intersection of Two Major Roadways) | Intersection improvements | $\begin{gathered} \text { Destination } \\ 2040 \end{gathered}$ | TBD |
| US 78 / SR 10 / Stone Mountain Highway at McDaniels Bridge Road (Intersections of one Major Roadway and one Minor Roadway) | Intersection improvements | $\begin{gathered} \text { Destination } \\ 2040 \end{gathered}$ | TBD |
| SR 124 / Scenic Highway at Wisteria Drive Realignment, Traffic Signal and Turn Lanes | Major Roads | $\begin{gathered} \text { Destination } \\ 2040 \\ \hline \end{gathered}$ | TBD |
| SR 124 / Scenic Highway widening from US 78 / SR 10 / West Main Street to Pharrs Road (4 to 6 lanes) | Widening SR 124 from 4 to 6 lanes | $\begin{gathered} \text { Destination } \\ 2040 \end{gathered}$ | TBD |
| US 78 / SR 10 / Stone Mountain Highway Parallel Road from Hewatt Road to Britt Road (New Location) | Adding new road from Hewatt Road to Britt Road | $\begin{gathered} \text { Destination } \\ 2040 \\ \hline \end{gathered}$ | Programmed |


| Table 1.1.1 - Projects from Previous Plans (Continued) |  |  |  |
| :---: | :---: | :---: | :---: |
| Project Name | Project Description | Source | Status |
| US 78 and Henry Clower Boulevard / Oak Street Intersection Ped Improvements | Pedestrian Improvements at intersection of Henry Clower Boulevard and US 78 | $\begin{gathered} \text { Destination } \\ 2040 \\ \hline \end{gathered}$ | TBD |
| US 78 / SR 10 / Stone Mountain Highway Parallel Road from Britt Road to Old US 78 (New Location) | Adding new road from Britt Road to Old US 78 | $\begin{gathered} \text { Destination } \\ 2040 \end{gathered}$ | TBD |
| US 78 / SR 10 (East Main Street / Athens Highway) Signal Upgrades at 5 Locations | Signal upgrades on SR 10/ US 78 in the Snellville and Grayson Areas; signal upgrades for Wisteria Dr/Skyland Dr | ARC RTP | Programmed |
| SR 124 (Scenic Highway) Widening | Widening SR 124 from US 78 (Main Street) to SR 864 (Ronald Reagan Parkway) | ARC RTP | TBD |
| US 78 (Main Street in City of Snellville) Continuous Flow Intersection | Including Westward and Eastward to intersections with Henry Clower Boulevard | ARC RTP | Complete |
| Hwy 78 @ McGee Rd Realignment | Realign skewed intersection with Cambridge St | $\begin{array}{\|rr} \text { Highway } & 78 \\ \text { LCI } \end{array}$ | Complete |
| Hwy 78 @ Walton Ct Realignment | Align Old Hwy 78 directly across from Walton Ct | $\begin{gathered} \text { Highway } \\ \text { LCI } \end{gathered} \quad 78$ | Complete |
| Westside Ct. Connection | Parallel Circulator Route (construct approx. 1,5000 ' of roadway) | Highway 78 LCI | TBD |
| Westside Ct. Partial Opening | Partial Median Opening | Highway 78 LCI | TBD |
| Highway 78 @ Highpoint Rd | Vertical Realignment | Highway 78 LCI | Complete |
| Killian Hill Rd. Node Construction | Beautification | Highway 78 LCI | Complete |
| High Point Rd. Node Construction | Beautification | Highway 78 LCI | Complete |
| Inter-parcel Access from Highpoint Rd. to Walton Ct | Interparcel access | Highway 78 LCI | TBD |
| Scenic Dr. Multi-Use Path | Pedestrian Access | Highway 78 LCI | Complete |
| Yellow River Scenic Trail | Pedestrian Access | $\begin{array}{r} \text { Highway } \\ \text { LCI } \end{array} \quad 78$ | Complete |
| ITS (Intelligent Transportation System Installation) | Roadway | Highway 78 LCI | Complete |


| Table 1.1.1 - Projects from Previous Plans (Continued) |  |  |  |
| :---: | :---: | :---: | :---: |
| Project Name | Project Description | Source | Status |
| Sidewalk construction | 5' sidewalk construction on both sides of Hwy 78 as part of DOT project | Highway 78 LCI | Complete |
| Bus Stop locations | Coordinate with GRTA and Gwinnett Transit to locate potential bus stops | $\begin{gathered} \text { Highway } 78 \\ \text { LCI } \\ \hline \end{gathered}$ | TBD |
| LCI Supplemental Funding | Explore LCI Supplemental funding opportunities | Highway 78 <br> LCI | TBD |
| Signal interconnectivity along West Park Place Blvd from Rockbridge Rd to Target entrance |  | Park Place LCI | TBD |
| Signal interconnectivity along East Park Place Blvd from US 78 to Rockbridge Rd |  | Park Place LCI | TBD |
| Provide geometric improvement / clear sign and pavement markings / add left turn protected phase at US 78 \& Stone Dr |  | $\begin{gathered} \text { Park Place } \\ \text { LCI } \\ \hline \end{gathered}$ | Complete |
| Provide longer deceleration lane and/or consolidated curb cuts and/or interparcel access along US 78 at Glenn Club Dr |  | Park Place LCI | Complete |
| Parallel access road between West Park Place Blvd and Rockbridge Rd |  | Park Place LCI | Complete |
| Parallel access road between Davis Rd and Camp Cir |  | Park Place LCI | TBD |
| Parallel access road between Camp Cir and Manking Rd |  | Park Place LCI | TBD |
| Extend sidewalk along Glenn Club Dr |  | Park Place LCI | TBD |
| Extend sidewalk along East Park Pl Blvd |  | Park Place LCI | Complete |
| Extend sidewalk along Rockbridge Rd North of East Park Place Blvd |  | Park Place LCI | Complete |
| Extend sidewalk along Parker Rd |  | Park Place LCI | TBD |
| Extend sidewalk along Pucketts Rd |  | Park Place LCI | TBD |
| Extend sidewalk along Stone Dr |  | Park Place LCI | Complete |


| Table 1.1.1 - Projects from Previous Plans (Continued) |  |  |  |
| :---: | :---: | :---: | :---: |
| Project Name | Project Description | Source | Status |
| Upgrade W Park Pl pedestrian underpass |  | Park Place LCI | Complete |
| Construct new pedestrian overpass on Rockbridge Rd |  | Park Place LCI | TBD |
| GRTA Xpress Park \& Ride |  | Park Place LCI | Complete |
| Oak Road Realignment |  | Snellville LCI | Complete |
| Bicycle/Pedestrian Network Project |  | Snellville LCI | TBD |
| Town Center Streetscape Improvements - TE Funding Application |  | Snellville LCI | TBD |
| Town Center Roundabouts - TE Funding Application |  | Snellville LCI | TBD |
| Grade Separated Interchange at US 78 and SR 124 |  | Snellville LCI | TBD |
| SR 124 and Oak Rd Pedestrian Improvements |  | Snellville LCI | Complete |
| Wisteria Drive and North Rd Pedestrian Improvements |  | Snellville LCI | Complete |
| US 78 and Wisteria Dr/Skyland Dr Pedestrian Improvements |  | Snellville LCI | Complete |
| Oak Road (SR 124 to US 78) Cross Sections |  | Snellville LCI | Complete |
| Clower Street (Oak Road to Wisteria Rd) Cross Sections |  | Snellville LCI | Complete |
| Wisteria Dr (SR 124 to US 78) Cross Sections |  | Snellville LCI | Complete |
| Coordinate all highway improvements with Evermore CID |  | Snellville LCI | Complete |
| US 78 North Collector/Distributor Road | Multiple existing and new segments, running north of US 78 | Main Street/ US 78 Widening | TBD |
| US 78 Collector/Distributing Connecting Bridge | New US 78 Roadway West of Lake Lucerne Road | $\begin{gathered} \text { Destination } \\ 2040 \end{gathered}$ | TBD |



Figure 1.1.1 - COMPLETED PROJECTS FROM PREVIOUS PLANS


Figure 1.1.2 - IDENTIFIED PROJECTS FROM PREVIOUS PLANS

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## 1.2-Existing Transportation Conditions

An inventory of the existing transportation conditions was performed to establish a baseline understanding of the existing roadway network, facilities for pedestrians and bicycles, and existing transit service. Additionally, a review of existing traffic volumes, roadway level of service, safety, congestion, and travel patterns adds to understanding of how the transportation network currently functions. The existing conditions are a snapshot of the transportation system as it exists right now.

## Roadway Conditions

The existing roadway network serves the residents, businesses, and commuters traveling within and throughout the Evermore CID. US 78 serves as the dominant east-west corridor through the area, carrying a high volume of commuters during the weekday from their homes to their work. To better understand the current state of the roadway conditions, Figure 1.2.1 illustrates the major signalized intersections and unsignalized median openings along the US 78 corridor. Roadway characteristics were identified and summarized in Table 1.2.1


Figure 1.2.1 - EXISTING ROADWAY CONDITIONS

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| N | $\begin{gathered} \text { Segment } \\ \# \end{gathered}$ | $\cdots$ | $\sim$ | $\sim$ | $\sim$ | N | $\sim$ | $\sim$ | N | N | $\sim$ | N | $\sim$ |


| Table 1.2.1: Existing Roadway Characteristics (Continued) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Segment \# | Road | From (N/W) | To (S/E) | Number of Lanes | Median Type | Posted <br> Speed <br> Limit | Sidewalks | Daily Traffic Volume (year) | GDOT Roadway Classification | Additional Info |
| 3 | $\begin{gathered} \text { US 78/ } \\ \text { SR } 10 \end{gathered}$ | Davis Rd SW/Parker Ct | Stone Dr SW | 6 | Raised | 45 | Yes |  | Principal Arterial | NHS Route |
| 3 | Parker Ct | North of US 78/SR 10 | -- | 2 | None | 25 | Partial | -- | Local <br> Road | -- |
| 3 | $\begin{gathered} \text { Davis Rd } \\ \text { SW } \\ \hline \end{gathered}$ | South of US <br> 78/SR 10 | -- | 2 | None | 25 | None | -- | Local <br> Road | -- |
| 3 | Puckett Rd | North of US 78/SR 10 | -- | 2 | None | 30 | None | -- | Local <br> Road | -- |
| 3 | $\begin{gathered} \text { Camp Cir } \\ \text { SW } \\ \hline \end{gathered}$ | South of US 78/SR 10 | -- | 2 | None | 25 | None | -- | Local <br> Road | -- |
| 3 | Old Camp Rd SW | South of US <br> 78/SR 10 | -- | 2 | None | 25 | None | -- | Local Road | -- |
| 3 | $\begin{gathered} \text { Mankin } \\ \mathrm{Dr} \\ \hline \end{gathered}$ | $\begin{gathered} \text { South of US } \\ 78 / \text { SR } 10 \\ \hline \end{gathered}$ | -- | 2 | None | 25 | None | -- | Local Road | -- |
| 4 | $\begin{gathered} \text { US 78/ } \\ \text { SR } 10 \end{gathered}$ | Stone Dr SW | $\begin{gathered} \text { Lake } \\ \text { Lucerne } \\ \text { Rd } \\ \hline \end{gathered}$ | 6 | Raised | 45 | Yes | -- | Principal Arterial | NHS Route |
| 4 | $\begin{array}{\|c\|} \hline \text { Stone Dr } \\ \text { SW } \\ \hline \end{array}$ | North of US 78/SR 10 | -- | 2 | None | 25 | None | -- | Local <br> Road | -- |
| 4 | Stone Dr SW | South of US <br> 78/SR 10 | -- | 4 | None | 34 | Partial | 9,310 (Sub, 2017) | Local Road | -- |
| 4 | Lake Lucerne Dr | North of US 78/SR 10 | -- | 2 | Raised | 25 | Partial | -- | Local Road | -- |
| 4 | Gresham Cir SW | South of US <br> 78/SR 10 | -- | 2 | None | 25 | None | $\begin{gathered} 644 \text { (Sub, } \\ 2017) \\ \hline \end{gathered}$ | Local Road | -- |



| Table 1.2.1: Existing Roadway Characteristics (Continued) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\#}{\text { Segment }}$ | Road | From (N/W) | To (S/E) | Number of Lanes | Median Type | Posted Speed Limit | Sidewalks | Daily <br> Traffic <br> Volume <br> (year) | GDOT Roadway Classification | $\begin{gathered} \text { Additional } \\ \text { Info } \end{gathered}$ |
| 7 | US 78/ SR 10 | Killian <br> Hill Rd SW/ Bethany Church Rd SW | Oakland Park Blvd/Veracruz Dr SW | 6 | Raised | 45 | Yes | -- | Principal Arterial | NHS Route |
| 7 | Killian Hill Rd SW | North of US 78/ SR 10 | -- | 4 | None | 45 | Partial | -- | Minor Arterial | -- |
| 7 | Bethany Church Rd | South of US 78/ SR 10 | -- | 4 | None | 35 | Partial | -- | Minor Arterial | -- |
| 7 | Country Walk | South of US 78/ SR 10 | -- | 2 | Raised | 25 | None | -- | Local Road | -- |
| 7 | Monterey Dr | North of US 78/ SR 10 | -- | 2 | None | 25 | None | -- | Local Road | -- |
| 8 | $\begin{gathered} \text { US 78/ } \\ \text { SR } 10 \end{gathered}$ | Oakland Park Blvd/Veracruz Dr SW | Hewatt Rd | 6 | Raised | 45 | Yes | -- | Principal Arterial | NHS Route |
| 8 | Veracruz Dr SW | North of US 78/ SR 10 | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 8 | Oakland <br> Park <br> Blvd SW | South of US 78/ SR 10 | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 8 |  | North of US 78/ SR 10 | -- | 2 | None | 35 | None | -- | Local Road | -- |



| Table 1.2.1: Existing Roadway Characteristics |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\#}{\text { Segment }}$ | Road | From (N/W) | To (S/E) | Number of Lanes | Median Type | Posted Speed Limit | Sidewalks | Daily Traffic Volume (year) | GDOT <br> Roadway Classification | Additional Info |
| 11 | $\begin{gathered} \text { US 78/SR } \\ 10 \end{gathered}$ | Highpoint Rd | Walton Ct/Old <br> Hwy 78 | 6 | Raised | 45 | Yes | -- | Principal Arterial | NHS Route |
| 11 | Highpoint Rd | North of US 78/SR 10 | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 11 | Highpoint Rd | South of US 78/SR 10 | -- | 2 | None | 40 | Partial | -- | Local Road | -- |
| 12 | $\begin{gathered} \text { US 78/SR } \\ 10 \end{gathered}$ | Walton $\mathrm{Ct} /$ Old Hwy 78 | McGee Rd/Cambridge St | 6 | Raised | 45 | Yes | -- | Principal Arterial | NHS Route |
| 12 | Old Hwy 78 | North of US 78/SR 10 | -- | 2 | None | 30 | Partial | -- | Local Road | -- |
| 12 | Walton Ct | South of US $\text { 78/SR } 10$ | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 12 | Scenic Dr | South of US 78/SR 10 | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 12 | Westridge Dr | South of US 78/SR 10 | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 13 | $\begin{gathered} \text { US 78/SR } \\ 10 \end{gathered}$ | McGee Rd/ Cambridge St | Fountain Dr | 6 | Raised | 45 | Yes |  | Principal Arterial | NHS Route |
| 13 | $\begin{gathered} \text { McGee Rd } \\ \text { SW } \end{gathered}$ | North of US 78/SR 10 | -- | 2 | None | 30 | Partial | -- | Local Road | --- |
| 13 | Cambridge St | South of US $\text { 78/SR } 10$ | -- | 2 | None | 30 | Partial | -- | Local Road | --- |
| 13 | Valley Dr | South of US <br> 78/SR 10 | -- | 2 | None | 25 | None | -- | Local Road | --- |


| Table 1.2.1: Existing Roadway Characteristics (Continued) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underset{\#}{\text { Segment }}$ | Road | From (N/W) | To (S/E) | Number of Lanes | Median Type | Posted Speed Limit | Sidewalks | Daily Traffic Volume (year) | GDOT <br> Roadway Classification | Additional Info |
| 14 | $\begin{aligned} & \text { US 78/ } \\ & \text { SR } 10 \end{aligned}$ | Fountain Dr | Henry Clower Blvd SW/ Knollwood Dr SW | 6 | Raised | 45 | Yes | $\begin{aligned} & \text { 49,869 } \\ & \text { (Sub, } \\ & \text { 2017) } \end{aligned}$ | Principal Arterial | NHS Route |
| 14 | Fountain Dr | North of US 78/ SR 10 | -- | 2 | Raised | 30 | Partial | -- | Local Road | -- |
| 14 | Henry Clower Blvd SW | South of US 78/ SR 10 | -- | 2 | None | 25 | None | -- | Local Road | -- |
| 15 | US 78/ SR 10 | Henry Clower Blvd SW/ Knollwood Dr SW | SR 124/ Scenic Hwy | 6 | Raised | 35 | Yes | -- | Principal Arterial | NHS Route |
| 15 | Knollwood Dr SW | North of US 78/ SR 10 | -- | 2 | None | 25 | Partial | -- | Local Road | -- |
| 15 | Henry Clower Blvd SW | South of US 78/ SR 10 | -- | 2 | None | 30 | Partial | -- | Local Road | -- |
| 15 | Rawlins St SW | North of US 78/ SR 10 | -- | 2 | None | 25 | None | -- | Local Road | -- |
| 16 | $\begin{aligned} & \text { US 78/ } \\ & \text { SR } 10 \end{aligned}$ | SR 124/ Scenic Hwy | Henry Clower Blvd SW/ Oak Rd SW | 4 | TWLTL | 35 | Partial | -- | Principal Arterial | NHS Route |
| 16 | SR 124/ Scenic Hwy N | North of US 78/ SR 10 | -- | 4 | TWLTL | 45 | Partial | -- | Principal Arterial | NHS Route |



## Existing Conditions

## Roadway Classification and Truck Facilities

The Georgia DOT has designated Roadway Functional Classifications for all roadways within the state. Functional classifications are defined for roadways to indicate the general relationship between access and mobility. Functional classification is defined by the Federal Highway Administration (FHWA) and used by policy makers, planners, and engineers to designate the purpose of the roadways. Roadways classified as major arterials favor mobility over access, while local roads favor access over mobility. Figure 1.2.2 illustrates the roadways in the study area and their classifications.

US 78 and SR 124 are both identified by the Atlanta Regional Commission (ARC) MPO as part of the ASTRoMaP system. The Atlanta Region developed the Atlanta Strategic Truck Route Master Plan (ASTRoMaP) to identify the regional routes serving freight truck traffic. The routes were identified to direct truck traffic to the roadways whose physical and operational characteristics can effectively accommodate truck traffic, and to improve traffic flow and access management to protect the freight corridors.


Figure 1.2.2 - FUNCTIONAL CLASSIFICATIONS OF ROADS

## Existing Conditions

## Pedestrian and Bicycle Conditions

US 78 has continuous sidewalks along both sides of the street, from E Park Place Blvd to SR 124/Scenic Highway. The sidewalk conditions along the major and minor cross streets within the CID boundary vary. The Existing Road Network table includes identifying sidewalk conditions for the listed streets. Many streets have sidewalks along both sides, while some streets have partial sidewalks and gaps, while some streets lack sidewalks.

There are currently no designated bicycle facilities along streets within the CID. Bicyclists are observed riding in sidewalks along the US 78 corridor to reach their destinations, which include employment or retail.

## Transit Conditions

Evermore CID is located within the Gwinnett County transit agency boundary; however, there is currently no transit service located within the CID limits. To access the MARTA system residents must first travel out of the corridor, either by personal vehicle or for-hire vehicle.

Evermore CID is served by one commuter bus route connecting Snellville with downtown Atlanta at the MARTA Five Points rail station. The GRTA Xpress bus route \#419 (a commuter route with limited stops that provides service to Atlanta) is operated by the Georgia Regional Transportation Authority (GRTA). Service is limited to weekdays and only the morning and afternoon peak periods. During the weekday peak morning period, there are ten buses inbound (west). During the weekday afternoon there are ten buses outbound (east).

The existing GRTA Xpress 419 bus route makes three stops along US 78 within the study area. The image to the right illustrates the GRTA Xpress Bus route. The three Park-n-Ride lots along the route are located at:

- U.S. 78 at Snellville First Baptist Church
- U.S. 78 at Hewatt Road
- U.S. 78 at Stone Mountain


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## 1.3-Traffic Volumes and Patterns

## Existing Traffic Volumes

To understand traffic conditions, a review of available data from Georgia DOT sources was conducted. Table 1.2.1 includes year 2016 count information along the study corridor, and on major cross-streets, where available. Based on volume alone, the corridor's major cross-streets are Killian Hill Road-SR 264/Bethany Church Road and SR 124/Scenic Highway.

In addition to the Georgia DOT counts, as part of this study, additional weekday volume counts along US 78 were conducted in May 2017. These counts confirm US 78 carries a typical weekday volume between 50,000 and 63,000 vehicles/day. An additional count was performed on a Saturday in October 2017. The count indicates the corridor is very busy during the weekend, partly due to the retail destinations along the corridor. The results of these counts are shown in
Table 1.3.1.

| Table 1.3.1 - Daily Traffic Volumes |  |  |
| :--- | :---: | :---: |
| Location | Weekday ADT (May 2017) | Saturday ADT (October 2017) |
| US 78 east of Camp Circle | $60,823 \mathrm{vpd}$ | -- |
| US 78 between Ross Rd and Ross <br> Circle | $62,737 \mathrm{vpd}$ | $53,721 \mathrm{vpd}$ |
| US 78 east of Hewatt Rd | $55,021 \mathrm{vpd}$ | -- |
| US 78 west of Henry Clower Blvd | $49,869 \mathrm{vpd}$ | -- |

Figure 1.3.1 illustrates the traffic volumes at these four count locations. The daily volume and the directional volumes during the peak hours is indicated.


Figure 1.3.1 - EXISTING TRAFFIC VOLUMES

## Existing Conditions

Furthermore, the Atlanta Regional Commission (ARC) maintains an activity-based regional Travel Demand Model (TDM). The TDM indicates year 2015 volumes on US 78 and surrounding roadways. The model estimates a typical volume along US 78 between 45,000 and 60,000 vehicles/day.

## Traffic Growth

In order to estimate traffic conditions in the future, historic data and the regional traffic demand model were both consulted. An average compound growth rate was calculated for the six GDOT count locations on US 78 in the study area using historical data. These rates are shown in Table 1.3.2. These historic compound growth rates are fairly modest, with one location even indicating an overall reduction in volumes. The average growth rate across these six locations is just under $1 \%$ per year.

| Table 1.3.2 - Historic Traffic Growth |  |  |
| :---: | :---: | :---: |
| Summary trend annual compound growth rates from GDOT historical count stations |  |  |
| GDOT Count <br> Station \# | Station Location | $15-Y e a r$ <br> Trend |
| 1356043 | US 78/SR 19 between W of Rockbridge Rd \& E Park Pl Blvd | $0.57 \%$ |
| 1350045 | US 78/SR 10 east of Camp Circle SW | $1.36 \%$ |
| 1350047 | US 78/SR 10 west of Ross Circle SW | $0.44 \%$ |
| 1350049 | US 78/SR 10 west of Parkwood Rd SW | $3.13 \%$ |
| 1350052 | US 78/SR 10 west of Fountain Dr SW | $-0.49 \%$ |
| 1350054 | US 78/SR 10 east of Henry Clower Blvd SW | $0.45 \%$ |
| Average of all locations | $0.9 \%$ |  |

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The TDM's year 2040 results were also consulted to approximate future growth. Using year 2015 and 2040 volumes at the same six locations, a similar exercise was done projecting out to the future. Results from this model are shown in Table 1.3.3. These results indicate an expectation of slightly more aggressive growth. However, the model's year 2015 volumes are notably lower than observed volumes, so the model expects there to be more excess capacity that can handle growth than exists in reality. Based on the results from historic traffic counts and the regional travel demand model, an average compound growth rate of $1 \%$ per year was used in this analysis to project future year traffic volumes. This growth rate is consistent with historic growth along the corridor and within a reasonable margin of the rate predicted by the regional travel demand model.

| Table 1.3.3 - Traffic Volumes from Travel Demand Model |  |  |  |
| :--- | :---: | :---: | :---: |
| Station Location | Year 2015 <br> Volume | Year 2040 <br> Volume | Average <br> Compound <br> Trend |
| US 78/SR 19 between W of Rockbridge Rd \& E Park Pl <br> Blvd | 78,391 | 104,976 | $1.2 \%$ |
| US 78/SR 10 east of Camp Circle SW | 64,196 | 80,611 | $0.9 \%$ |
| US 78/SR 10 west of Ross Circle SW | 54,361 | 77,076 | $1.4 \%$ |
| US 78/SR 10 west of Parkwood Rd SW | 47,639 | 67,786 | $1.4 \%$ |
| US 78/SR 10 west of Fountain Dr SW | 37,448 | 53,761 | $1.5 \%$ |
| US 78/SR 10 east of Henry Clower Blvd SW | 37,448 | 53,761 | $1.5 \%$ |
| Average of all locations |  |  | $1.3 \%$ |

## Existing Conditions

## Truck Volumes

To understand the volume of trucks, or heavy vehicles, traveling the US 78 corridor, two classification counts were performed during a weekday in May 2017. One count was performed on the western part of the corridor and one on the eastern part of the corridor. The 24hour count provided the total vehicle volume count over the period, as well as volumes for individual hours of the day, for each direction along US 78. The data additionally split the vehicle types into the thirteen FHWA vehicle classification types. Table 1.3.4 summarizes the total vehicle volumes by time period and direction for both locations. Additionally, the table summarizes the volume and percentage of total trucks, single-unit trucks, and combination trucks by time period and direction.

| Table 1.3.4: Vehicle Classification Count Data -Weekday |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Roadway Location | Time Period | Direction | Total Volume | Total Trucks |  | Single-Unit Heavy Trucks |  | Combination Vehicles |  |
| US 78, east of Camp Circle (Western part of Corridor) | Daily | Both | 60,823 | 5,141 | 8.4\% | 4,712 | 7.7\% | 429 | 0.7\% |
|  |  | Westbound | 32,605 | 2,500 | 7.7\% | 2,203 | 6.8\% | 297 | 0.9\% |
|  |  | Eastbound | 28,218 | 2,641 | 9.4\% | 2,509 | 8.9\% | 132 | 0.5\% |
|  | AM Peak Hour | Both | 3,801 | 313 | 8.2\% | 278 | 7.3\% | 35 | 0.9\% |
|  |  | Westbound | 2,853 | 214 | 7.5\% | 183 | 6.4\% | 31 | 1.1\% |
|  |  | Eastbound | 948 | 99 | 10.4\% | 95 | 10.0\% | 4 | 0.4\% |
|  | PM PeakHour | Both | 3,543 | 287 | 8.1\% | 263 | 7.4\% | 24 | 0.7\% |
|  |  | Westbound | 1,392 | 100 | 7.1\% | 84 | 6.0\% | 16 | 1.1\% |
|  |  | Eastbound | 2,151 | 187 | 8.7\% | 179 | 8.3\% | 8 | 0.4\% |
| US 78, east of Hewatt Road (Eastern part of corridor) | Daily | Both | 52,021 | 5,274 | 10.1\% | 4.686 | 9.0\% | 588 | 1.1\% |
|  |  | Westbound | 26,799 | 3,013 | 11.3\% | 2,776 | 10.4\% | 237 | 0.9\% |
|  |  | Eastbound | 25,222 | 2,261 | 9.0\% | 1,190 | 7.6\% | 351 | 1.4\% |
|  | AM Peak Hour | Both | 3,117 | 311 | 10.0\% | 277 | 8.9\% | 34 | 1.1\% |
|  |  | Westbound | 2,237 | 224 | 10.0\% | 210 | 9.4\% | 14 | 0.6\% |
|  |  | Eastbound | 880 | 87 | 9.9\% | 67 | 7.6\% | 20 | 2.3\% |
|  | PM Peak Hour | Both | 3,621 | 327 | 9.1\% | 285 | 7.9\% | 42 | 1.2\% |
|  |  | Westbound | 1,385 | 147 | 10.6\% | 129 | 9.3\% | 18 | 1.3\% |
|  |  | Eastbound | 2,236 | 180 | 8.1\% | 156 | 7.0\% | 24 | 1.1\% |

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As seen in the table, the majority of vehicles are passenger vehicles. Approximately $8 \%$ to $10 \%$ of the vehicles on a daily basis are trucks, or heavy vehicles. During the 7:00-8:00am and 5:00$6: 00 \mathrm{pm}$ peak hours, the truck percentage is about the same as the daily. When one looks closer at the westbound and eastbound direction data, there is a noticeable smaller volume of trucks traveling in the peak direction. Another way to say this is more passenger vehicles are headed in the peak direction, westbound during the AM peak period, and eastbound during the PM peak period.

Another key observation from reviewing the data is the single-unit heavy vehicles constitutes a majority of the total truck volume. For example, at the western location, the daily percentage of single-unit trucks is $7.7 \%$; the percentage of combination vehicles is $0.7 \%$. The thirteen FHWA vehicle classification types are illustrated in the graphic below. The single-unit heavy vehicles, class 4 through 7 , consist of buses, 2 -axle trucks, 3 -axle trucks, and 4 or more axle trucks. The majority of the types of vehicle seen on the corridor include school buses, boxtrucks making deliveries, landscape service pick-up trucks with trailers, contractor and service trucks with trailers.

## Existing Conditions

The importance of the split between single-unit and combination trucks is the vehicles have different operation characteristics. Many of the single-unit vehicle types mentioned above can have comparable acceleration and deceleration operating characteristics to passenger vehicles. Oppositely, the combination vehicles have slower acceleration and deceleration operating characteristics. Knowing the split in vehicle types traveling along the corridor is beneficial in developing recommended improvements.

Additionally, one classification count was performed on a Saturday in October 2017. The 24-hour count provided the total vehicle volume count over the period, as well as volumes for individual hours of the day, for each direction along US 78. The data additionally split the vehicle types into the thirteen FHWA vehicle classification types. Table 1.3 .5 summarizes the total vehicle volumes by time period and direction for both locations. Additionally, the table summarizes the volume and percentage of total trucks, single-unit trucks, and combination trucks by time period and direction.


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| Table 1.3.5: Vehicle Classification Count Data - Saturday |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Roadway Location | Time <br> Period | Direction | Total Volume | Total Trucks |  | Single-Unit Heavy Trucks |  | Combination Vehicles |  |
|  |  |  |  | Volume | \% | Volume | \% | Volume | \% |
| US 78 between Rodd Rd and Ross Circle (Middle of corridor) | Daily | Both | 53,721 | 2,906 | 5.4\% | 2,849 | 5.3\% | 57 | 0.1\% |
|  |  | Westbound | 26,794 | 1,666 | 6.2\% | 1,631 | 6.1\% | 35 | 0.1\% |
|  |  | Eastbound | 26,927 | 1,240 | 4.6\% | 1,218 | 4.5\% | 22 | 0.2\% |
|  | Peak Hour of the Day (2-3 PM) | Both | 4,032 | 244 | 6.1\% | 240 | 6.0\% | 4 | 0.1\% |
|  |  | Westbound | 2,115 | 146 | 6.9\% | 145 | 6.9\% | 1 | 0.0\% |
|  |  | Eastbound | 1,917 | 98 | 5.2\% | 95 | 5.0\% | 3 | 0.2\% |

As seen in the table, the majority of vehicles are passenger vehicles.

Approximately 5.4\% of the vehicles on a daily basis are trucks, or heavy vehicles. The volume on Saturday peaks during the 2:00-3:00pm hour. Interestingly the peak hour volume of over 4,000 vehicles is higher than the weekday peak hours. The volumes in each direction are about even on Saturday.

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## Traffic Patterns

This section of the US 78 corridor features several retail locations and other businesses. A significant portion of traffic on US 78 is likely associated with employees of these businesses traveling to and from work. To learn more about where these local commuting trips occur, data from the U.S. Census Bureau's Longitudinal Employer-Household Dynamics (LEHD) survey was reviewed. Figure 1.3 .2 shows the home locations of all 13,845 people who work within one mile of the study corridor. Workers generally live in southern and central Gwinnett County, with the highest concentrations of employees living immediately south of the study area, between US 78, SR 124/Scenic Highway, and SR 264/Bethany Church Road. Just over $40 \%$ of area employees travel less than 10 miles to get to work, and approximately $75 \%$ of employees live within 25 miles of their job on US 78.

The regional TDM can also provide insight into regional travel patterns. While the TDM is only an estimation of travel, it captures all trips types and purposes, not just commuting trips. To better understand travel to and from the US 78 area, the metropolitan Atlanta area was broken into subareas, including a subarea for the area immediately along the study corridor. Total trips between the study area and each subarea were calculated, and are represented in Figure 1.3.3. Approximately $30 \%$ of trips both began and ended within the subarea around the study area, showing a high rate of local trips likely along US 78. The next most frequent trips were those to adjacent subareas in Gwinnett County to the south, northwest, and northeast. These low-distance trips echo the commuting results shown by LEHD and make up another approximately $30 \%$ of trips.

Another way to analyze TDM outputs is to view the driving paths of all vehicles that cross a specific point along a roadway. Figure 1.3 .4 shows the peak period routing for vehicles that use US 78 just east of Killian Hill Road/Bethany Church Road. This analysis shows a substantial amount of these cars using US 78 and to get between locations in DeKalb and Gwinnett Counties, as well as a small but notable amount of trips that begin or end inside the I-285 perimeter, especially in Downtown Atlanta and the CDC/Emory area. Based on results from this analysis, approximately half of passenger vehicles crossing this point during the morning and afternoon periods have an origin or destination directly on the corridor, within the study limits. All other trips travel along US 78 to get to a location beyond the study area, or purely as a through route.




## Existing Conditions

## 1.4-Operational Conditions

Operations on the 7 -mile segment of US 78 vary greatly by time of day and by location. West of the intersection with SR 124 , where the partial continuous-flow interchange (CFI) is to be constructed, the corridor is a six-lane highway with frequent driveways and some access management medians. East of SR 124, the typical section reduces to a four-lane highway with a flush, two-way left turn lane. Congestion on the corridor typically occurs in the westbound direction in the AM, and the eastbound direction in the PM. Traffic patterns form as a result of the morning commute into Midtown and Downtown Atlanta, as well as to the I- 285 Perimeter. The reverse of this pattern occurs in the afternoon when people return home to locations along the US 78 corridor and to the east.

Volume on the corridor is high, with approximately 60,000 vehicles traveling on the road daily. Truck traffic is also relatively high, with heavy vehicles making up between $8.5 \%$ to $10 \%$ of the total traffic on a daily basis. Between signalized intersections, the corridor tends to operate relatively well. This is due to the median restrictions that are present, and also due to the number of travel lanes and the roadway geometrics. Certain signalized intersections act as bottlenecks for traffic. These bottlenecks can create vehicle queues that build and can even spill back to adjacent, upstream signals that would otherwise be operating efficiently. Congestion on the corridor can be attributed to three main causes:

- Signalized intersection operations
- Heavy vehicle traffic
- Crashes and other emergency events

Early in this study, a multiple agency meeting was held to discuss and identify transportation conditions and issues along the US 78 corridor. The meeting included staff from Gwinnett County DOT, Georgia DOT, Evermore CID, the RTOP (Regional Traffic Operations Program) corridor manager for US 78, and the project team. Additionally, the project team performed observations along the corridor to document operational issues

A list of signalized intersections, and any observed or otherwise identified issues that are effecting signal capacity, is provided in Table 1.4.1. Additionally, Figure 1.4.1 illustrates the locations of observed congestion during the AM and PM peak periods.

A general observation along the US 78 corridor was the travel lane widths and mix of traffic affects the operations and capacity of US 78 . The travel lanes are approximately 10.5 -feet wide, which is narrower than typical on major arterials in the metro Atlanta region. The presence of large trucks, even if few, tends to affect drivers of passenger vehicles in the adjacent lanes.

The large trucks at times may travel on the lane lines in curves or fail to maintain their lane. During the hours when volumes are higher, the presence of large trucks has an negative impact on operations. During the hours when volumes are lower, vehicle speeds are generally higher, and passenger vehicles sometime fail to maintain their lane in curves.


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| Table 1.4.1 Existing Operational Issues |  |  |
| :---: | :---: | :---: |
|  | Intersection or Street | Operational Issue |
| 1 | E Park Place Blvd \& US 78 | The intersecting volume in the AM and PM peak periods is very high; roadway network results in significant left turns to and from the side streets, which limits the throughput for the major street; AM queues can potentially reduce capacity at three upstream signals (Parker Court, Stone Drive, and Lake Lucerne Road); AM eastbound U-turn volume is very high; PM queues form to the SR 10 on-ramp; the signal is also split-phased |
| 2 | Davis Rd/ Parker Ct \& US 78 | Minor side street traffic, congestion is typically only a result of queue spillback at $E$ Park Place Blvd signal; northbound left turn lane is short and may not adequately store the queue |
| 3 | Stone Dr/ Shopping Center \& US 78 | Minor side street traffic, congestion is typically only a result of queue spillback at E Park Place Blvd signal; PM period westbound to southbound left turn volume is high |
| 4 | US 78 \& Lake Lucerne Rd | Minor side street traffic, congestion is typically only a result of queue spillback at E Park Place Blvd signal; the signal has an exclusive pedestrian phase across the east leg that can reduce efficiency when called |
| 5 | Ross Rd \& US 78 | Split phased side streets reduce capacity; PM queue spillback from Killian Hill Road reduces throughput |
| 6 | Bethany Church Rd/Killian Hill Rd \& US 78 | The Eastbound left turn lane is a single lane, and can spill back and block one through lane; the PM westbound U-turn volume is high and reduces turn lane capacity; southbound PM queues are long - the approach has two through lanes, but immediately downstream of the signal, Bethany Church Road reduces back down to one southbound lane; AM queues can form that effect two upstream signals (Veracruz Drive/Oakland Park Boulevard and Hewatt Road); PM queues can form and effect two upstream signals (Lake Lucerne Road and Ross Road); high volume of pedestrian activity has been identified here |
| 7 | Oakland Park Blvd/Veracruz Dr \& US 78 | Minor side street traffic, congestion is typically only a result of queue spillback at Killian Hill Road/Bethany Church Road signal; AM northbound left turn volume is high because of traffic diverting from the signal at Hewatt Road |
| 8 | Hewatt Rd \& US 78 | The Eastbound left turn lane is a single lane, and can spill back and block one through lane; southbound PM volume is very high and each movement is only served by one lane (LT, TH, RT) |
| 9 | Skyland/ Wisteria Dr \& US78 | The intersection is severely skewed and the dual left turn lanes from the side streets are timed to have a leading and a lagging phase; this signal also is congested during AM and PM periods due to the queues that form at the SR 124 signal |

## Existing Conditions

## Table 1.4.1 Existing Operational Issues (Continued)

Intersection or Street
Operational Issue

| 10 | Parkwood Rd \& US 78 | Minor side street traffic; side street approaches consist of only a <br> single lane for all movements |
| :---: | :---: | :--- |
| 11 | Highpoint Rd \& US 78 | Northbound left turn volume is moderately high in the AM peak |
| 12 | Walton Ct \& US 78 | Minor side street traffic; this signal is located at the terminus of the <br> Old Highway 78 alignment |
| 13 | US 78 \& McGee Rd | Minor side street traffic; the northbound approach consists of a single <br> lane for all movements |
| 14 | US 78 \& Fountain Dr | Minor side street traffic; the northbound approach consists of a single <br> lane for all movements |
| 15 | Henry Clower Blvd/ Knollwood <br> Dr \& US 78 | Minor side street traffic; the capacity of this signal is effected by the <br> queue spillback from the signal with SR 124 during the PM peak; this <br> signal will become the primary location for northbound to westbound <br> left turns when the CFI is complete |
| 18 | Scenic Hwy \& US 78 | High volume of intersecting traffic results in poor operations; high <br> volume of eastbound to northbound left turns during peak periods; <br> southbound right turn volume is high and currently is controlled by <br> the traffic signal; this is the location of the new CFI; the westbound <br> approach consists of only two through lanes |
| Skyland/ Wisteria Dr \& US78 | During the peak periods, the westbound left turn and the north- <br> bound right turn volumes are significant; during the PM peak, the <br> southbound volume on Oak Road is very high - this is likely due to <br> diverting traffic that is looking to avoid the signal at SR 124; the GRTA <br> Xpress Park and Ride lot serving Route 419 is located to the south, on <br> Henry Clower Boulevard; this signal also is congested during AM and <br> PM periods due to the queues that form at the SR 124 signal |  |
| Henry Clower Blvd/ Oak Rd \&US 78 | The intersection is severely skewed and the dual left turn lanes from <br> the side streets are timed to have a leading and a lagging phase; this <br> signal also is congested during AM and PM periods due to the queues <br> that form at the SR 124 signal |  |

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## Traffic Analysis and Level of Service

The standard approach to defining intersection traffic congestion is the use of Level of Service (LOS), a quantifiable measure of congestion that is correlated to the delay experienced by the average vehicle. LOS is measured on a letter grade scale from A to F, with LOS A indicating free-flow conditions and LOS F indicating severe congestion as shown in the graphic below. Typically, LOS D or better is considered satisfactory, with LOS E or F considered failing.

The Highway Capacity Manual (HCM) defines LOS at signalized intersections in terms of average control delay per vehicle, which is composed of initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. Unsignalized intersection LOS is defined in similar terms, but with lower delay thresholds. These delay thresholds are presented in Table 1.4.2.


| Table 1.4.2: Level of Service Criteria |  |  |
| :---: | :---: | :---: |
| Level of Service | Signalized Average Delay <br> (sec/veh) <br> $\leq 10.0$ | Unsignalized Average Delay <br> (sec/veh) <br> $\leq 10.0$ |
| A | $>10.0$ and $\leq 20.0$ | $>10.0$ and $\leq 15.0$ |
| B | $>20.0$ and $\leq 35.0$ | $>15.0$ and $\leq 25.0$ |
| C | $>35.0$ and $\leq 55.0$ | $>25.0$ and $\leq 35.0$ |
| D | $>55.0$ and $\leq 80.0$ | $>35.0$ and $\leq 50.0$ |
| E | $>80.0$ | $>50.0$ |
| F |  |  |

## Existing Conditions

The HCM 2010 states that unsignalized intersections are associated with more uncertainty for users, as delays are less predictable than they are at signals, which can reduce a user's tolerance to delay. Unfortunately, limitations in the methodology also assume uniform gaps in traffic on major streets which often results in the analysis showing a significantly more conservative delay result for side street stop approaches.

A capacity analysis of the signalized intersections along the US 78 corridor was conducted with Synchro 9.0, utilizing HCM 2000 methodology. The HCM 2000 methodology was selected due to limitations with the HCM 2010 methodology regarding the provision for U-turns at intersections. Given the number of $U$-turns that are made at each signalized intersection and the effect on capacity that those U-turns have, this study makes the determination that the HCM 2000 methodology is most appropriate. The intent of this analysis is to provide an understanding of the current operations at each signalized intersection to identify areas where congestion-reducing improvements are needed. The US 78 corridor existing conditions delay and LOS for each signalized intersection during the AM and PM weekday peak periods is reported in Table 1.4.3.

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Table 1.4.3 Peak Hour (AM/PM) Signalized Level-of-Service, 2017 Year Conditions

| Intersection |  | Existing LOS |  |
| :---: | :---: | :---: | :---: |
|  |  | AM | PM |
| 1 | E Park Place Blvd \& US 78 | F | F |
| 2 | Davis Rd/ Parker Ct \& US 78 | B | B |
| 3 | Stone Dr/ Shopping Center \& US 78 | B | D |
| 4 | US 78 \& Lake Lucerne Rd | B | C |
| 5 | Ross Rd \& US 78 | B | C |
| 6 | Bethany Church Rd/Killian Hill Rd \& US 78 | E | E |
| 7 | Oakland Park Blvd/Veracruz Dr \& US 78 | B | A |
| 8 | Hewatt Rd \& US 78 | D | D |
| 9 | Parkwood Rd \& US 78 | B | B |
| 10 | Highpoint Rd \& US 78 | D | C |
| 11 | Walton Ct \& US 78 | A | A |
| 12 | US 78 \& McGee Rd | A | B |
| 13 | US 78 \& Fountain Dr | A | A |
| 14 | Henry Clower Blvd/ Knollwood Dr \& US 78 | B | B |
| 15 | Scenic Hwy \& US 78 | E | F |
| 16 | Henry Clower Blvd/ Oak Rd \& US 78 | C | E |
| 17 | Skyland/ Wisteria Dr \& US78 | E | F |

## Existing Conditions

## Corridor Travel Times

The traffic signals along the SR 10/US 78 corridor are actively maintained including signal timing coordination through GDOT's Regional Traffic Operations Program (RTOP). In addition to this RTOP Corridor having a corridor manager overseeing the signal operations, the corridor has BlueToad technology. This technology collects travel time data. GDOT provided travel time data for the corridor, from Wisteria Drive/Skyland Drive to E. Park Place Boulevard for the Eastbound and Westbound direction. The historical comparison was performed for Tuesdays through Thursdays, on a 12-week period, from April 5, 2016 through June 27th, 2017. The Tuesday through Thursday data was reviewed because this is representative of typical weekday traffic flows.

Corridor congestion is examined using several metrics that are documented in the Federal Highway Administration (FHWA) publication, Travel Time Reliability, Making it There On Time, All the Time. The BlueToad travel time data provided by GDOT allows for estimations to be made for the corridor's directional Travel Time Index (TTI), Free Flow Speed and Travel Time, Average Peak Hour Travel Time, and directional buffer time.

## Free Flow Speed and Travel TIme

The free-flow speed for a corridor is a theoretical speed that a vehicle would travel if there were no other vehicles, obstacles, or traffic control devices that increased delays. Practical estimates for free-flow speed can be made by taking the individual speeds recorded across all hours of the day, and sorting them in order of increasing magnitude. The 85th-percentile point of the observed speeds can serve as a reliable proxy for the speed of free-flow traffic (Atlanta Regional Commission, ARC). The free-flow travel time can then be calculated, knowing the length of the road segment.

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## Average Travel and Buffer Time

For the purposes of this study, the AM peak period is taken to be the time of day between 6-9 AM and the PM peak period is taken to be the time of day between 4-7 PM. The average travel time for the corridor, by direction, is developed using the BlueToad data by averaging all travel times for each 15 minute period over a 14-month period. This metric is used to calculate the corridor's travel time index as well as the buffer time.

Buffer Time is a measure of how much extra time that a traveler must add to their average travel time when planning a trip to ensure an on-time arrival. If the travel time index is a measure of the average travel time on a road segment during a specific time period, then the buffer time is a measure of how much variation there can be in that average. Typically, the buffer time is the difference in the 95th percentile longest recorded travel time during a specific time period and the average travel time during that same period.

These travel time metrics are summarized in Table 1.4.4 for the 6:00-9:00am peak hour and the 4:00-7:00 pm peak hour. The data indicates directional values for the average peak hour travel time, the average daily travel time, the free-flow travel time, the travel time indices (TTI) and the buffer time during the AM peak hour and PM peak hour.

## Existing Conditions

|  | Travel Time (min) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average AM | Average PM | Daily Average | Freeflow Travel Time (85th \%ile) | AM Travel Time Index | PM Travel Time Index | AM Buffer Time | PM Buffer Time |
| $\begin{gathered} \hline(04 / 05 / 16- \\ 06 / 28 / 16) \\ \hline \end{gathered}$ | 10.58 | 14.27 | 11.25 |  | 1.07 | 1.45 |  |  |
| $\begin{gathered} (07 / 05 / 16- \\ 09 / 27 / 16) \\ \hline \end{gathered}$ | 10.48 | 13.61 | 11.29 |  | 1.06 | 1.38 |  |  |
| $\begin{aligned} & (10 / 04 / 16- \\ & 12 / 27 / 16) \\ & \hline \end{aligned}$ | 10.68 | 14.28 | 11.38 | 9.85 | 1.08 | 1.45 | 1.3 min | 2.1 min |
| $\begin{aligned} & (01 / 03 / 17- \\ & 03 / 28 / 17) \\ & \hline \end{aligned}$ | 10.36 | 13.67 | 11.11 |  | 1.05 | 1.39 |  |  |
| $\begin{aligned} & (04 / 04 / 17- \\ & 06 / 27 / 17) \\ & \hline \end{aligned}$ | 10.92 | 13.16 | 11.34 |  | 1.11 | 1.34 |  |  |
| Average | 10.60 | 13.80 | 11.27 |  |  |  |  |  |



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The following two graphics illustrate the travel times over a 24 -hour period during the study period. As can be expected the travel time in the westbound direction is highest during the AM peak period and becomes relatively consistent from noon to about 7 pm . The travel time in the eastbound direction is consistent from 9am until 3pm. Beginning around 4pm, the travel time starts to increase to a peak around 5:45pm.

Travel Time along US 78 Eastbound


Travel Time along US 78 Westbound

|  | Historical Trends for SR 10 EB from E Park PI to Wisteria Dr |
| :--- | :--- | :--- | :--- |

## Existing Conditions

## 1.5-Roadway Crash Review

Traffic safety is a key consideration of how the existing transportation network is functioning. Five years of crash data for the years 2012 to 2016 was obtained from Georgia DOT's Safety Office. Crash data was provided for all us US 78 in Gwinnett County. For the purposes of this analysis, crash data was examined from Park Place Boulevard through Wisteria Drive/Skyland Drive. For the five year period a total of 3,394 crashes occurred along the US 78 corridor. Of these, a total of 789 were injury crashes and 7 were fatalities. The crash data shows that there were four pedestrian/bicycle crash recorded during the observation period. Table 1.5.1 summarizes the crashes along the US 78 corridor. Figure 1.5.1 illustrates the crash locations. The heat map shows the frequency of all crashes, regardless of severity. Crashes that involved injuries are shown with orange circle, and crashes with fatalities are shown with a red "X."

| Table 1.5.1 Crash Review Summary for US 78 Corridor |  |  |
| :--- | :---: | :---: |
| Crash Type | Number of Crashes | Percentage of Total Crashes |
| Angle | 1,019 | $30 \%$ |
| Head On | 48 | $1 \%$ |
| Not A Collision with Motor <br> Vehicle | 149 | $4 \%$ |
| Rear End | 1,630 | $48 \%$ |
| Sideswipe-Opposite <br> Direction | 33 | $1 \%$ |
| Sideswipe-Same Direction | 494 | $15 \%$ |
| Other/Unspecified | 21 | $1 \%$ |
| Total Crashes | 3,394 | $100 \%$ |
| Crashes with Injuries | 789 | $23 \%$ |
| Crashes with Fatalities | 7 | $<1 \%$ |
| Crashes involving Bicyclists <br> or Pedestrians | 4 | $18 \%$ |
| Crashes involving a Left- <br> Turn or U-Turn | 602 | $1 \%$ |



## Existing Conditions

The predominant types of crashes included rear end, accounting for $48 \%$ of the total. Angle crashes accounted for $30 \%$ and sideswipe same direction crashes accounted for $15 \%$. The high percentage of rear end crashes is commonly associated with congestion. The high percentage of sideswipe same direction crashes confirms there is a significant amount of lane changing occurring along the corridor. An additional analysis of the data found that $18 \%$ of the crashes involve a left-turn or u-turn movement.

Analysis of the crashes by roadway segments and by intersection was performed to better understand the location of the accidents along the corridor. Table 1.5.2 summarizes the total crashes by intersection.

| Intersecting Road | Number of Accidents | Rank |
| :---: | :---: | :---: |
| Park Place Boulevard | 251 | 2 |
| Davis Road/Parker Court | 162 | 4 |
| Stone Drive/Lowe's Driveway | 141 | 6 |
| Lake Lucerne Road | 141 | 7 |
| Ross Road | 69 | 14 |
| Killian Hill Road/ Bethany Church Road | 306 | 1 |
| Veracruz Drive/Oakland Park Boulevard | 76 | 12 |
| Hewatt Road | 162 | 5 |
| Parkwood Road | 82 | 11 |
| Highpoint Road | 123 | 8 |
| Old Highway 78/Walton Court | 38 | 17 |
| McGee Road/Cambridge Street | 69 | 15 |
| Fountain Road | 41 | 16 |
| Knollwood Drive/Henry Clower Boulevard | 72 | 13 |
| SR 124/Scenic Highway | 202 | 3 |
| Oak Road/Henry Clower Boulevard | 113 | 9 |
| Wisteria Drive/Skyland Drive | 106 | 10 |

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Table 1.5.3 summarizes the total crashes by segment.

| Table 1.5.3: Crash Review for US 78 Corridor Roadway Segments |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Roadway Segment |  | Number of Accidents | Accidents/Mile | Rank |
| From | To |  |  |  |
| Park Place Boulevard | Davis Road/Parker Court | 151 | 410 | 3 |
| Davis Road/ Parker Court | Stone Drive | 160 | 352 | 4 |
| Stone Drive | Lake Lucerne Road | 79 | 183 | 7 |
| Lake Lucerne Road | Ross Road | 69 | 126 | 11 |
| Ross Road | Killian Hill Road/Bethany Church Road | 170 | 293 | 6 |
| Killian Hill Road/ Bethany Church Road | Veracruz Drive/Oakland Park Boulevard | 137 | 494 | 2 |
| Veracruz Drive/ Oakland Park Boulevard | Hewatt Road | 30 | 161 | 8 |
| Hewatt Road | Parkwood Road | 16 | 67 | 13 |
| Parkwood Road | Highpoint Road | 117 | 158 | 9 |
| Highpoint Road | Old Highway 78/Walton Court | 8 | 39 | 16 |
| Old Highway 78/ Walton Court | McGee Road/Cambridge Street | 12 | 42 | 15 |
| McGee Road/ Cambridge Street | Fountain Road | 16 | 72 | 12 |
| Fountain Road | Knollwood Drive/Henry Clower Boulevard | 19 | 148 | 10 |
| Knollwood Drive/Henry Clower Boulevard | SR 124/Scenic Highway | 13 | 58 | 14 |
| SR 124/Scenic Highway | Oak Road/Henry Clower Boulevard | 140 | 572 | 1 |
| Oak Road/ Henry Clower Boulevard | Wisteria Drive/Skyland Drive | 50 | 303 | 5 |

## Existing Conditions

Crash rates for the US 78 corridor were calculated and compared to the statewide averages for urban principal arterials. Table 1.5.4 summarizes the crash rate calculations and indicates the average crash rate of 505 crashes per 100 million vehicle miles ( 100 MVM ) for the five year period was slightly lower than the statewide average of 583 in the year 2015.

| Table 1.5.4 - Crash Rate for US 78 Corridor |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Crash Analysis Section | Dist ance <br> (mile) | Time m <br> Period | Number of <br> Crashes | ADT | Annual VMT | CrashRate <br> (100MVMT) |
| US 78: Park Place Blvd to <br> Wisteria Dr/Skyland Dr | 6.5 | Five <br> Years | 3,394 | 56,670 | $134,449,585$ | 505 |

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1 Note: Statewide Urban Principal Arterial Average: 583 crashes per 100 million vehicle miles of travel
(100MVMT), based on GDOT data for 2015.

2 Note: Based on 2015 ADT from traffic data collection effort. ADT is average of four segments along US 78 corridor.


## Needs Assessment

## 2-Needs Assessment

Based on the existing transportation system conditions, a needs assessment was performed. The needs assessment identifies where there are opportunities for improvements in the various travel modes and specific locations. The needs assessment focused on the short-term conditions expected by year 2030. In addition to the technical analysis, an on-line survey was conducted of the community to provide further input.

## 2.1-Vehicle Operations

An expected growth in travel volumes at an annual rate of 1-percent per year equates to approximately a 14 -percent increase in volumes by the year 2030 . The expected daily vehicle volume demand along US 78 are shown in Table 2.1.1.

| Table 2.1.1 - Expected 2030 Daily Traffic Volume Demand |  |  |
| :--- | :---: | :---: |
| Location | Weekday ADT | Saturday ADT |
| US 78 East of Camp Circle | $69,225 \mathrm{vpd}$ | --- |
| US 78 between Ross Road <br> and Ross Circle | $71,400 \mathrm{vpd}$ | $60,000 \mathrm{vpd}$ |
| US 78 East of Hewatt Road | $62,625 \mathrm{vpd}$ | --- |
| US 78 West of Henry Clower <br> Boulevard | $56,750 \mathrm{vpd}$ | --- |

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The year 2030 expected traffic volumes during the weekday AM and PM peak hour were analyzed. The projected intersection Level-of-Service and delay for each signalized intersection along the US 78 corridor is reported in Table 2.1.2. The intersections projected to operate at an unacceptable Level-of-Service, or overcapacity, are highlighted. For critical intersections, the volume to capacity ratio (v/c), and green-to-cycle ratio ( $\mathrm{g} / \mathrm{c}$ ) are reports for the eastbound or westbound through movements. The v/c ratio indicates the extent the demand volume exceeds the capacity and the g/c ratio (based on existing signal timings conditions) indicates the amount of the cycle the approach receives. Capacity improvements at the intersection would improve the operations.

Based on the short-term intersection analysis, the following 6 intersections are in need of capacity/operational improvements:

- US 78 at E Park Place Blvd
- US 78 at Stone Dr/Driveway
- US 78 at Killian Hill Rd/Bethany Church Rd
- US 78 at Hewatt Rd
- US 78 at Oak Rd/Henry Clower Blvd (east)
- US 78 at Wisteria Dr/Skyland Dr

It is important to note there is an intersection improvement project at US 78 at SR $124 /$ Scenic Hwy to construct a Continuous Flow Intersection. This project will address the poor Level-ofService reported in the table.

## Needs Assessment

| Location | AM Peak Hour |  |  | PM Peak Hour |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LOS (delay in sec) | Westbound Through Direction |  | $\begin{gathered} \text { LOS (delay } \\ \text { in sec) } \end{gathered}$ | Eastbound Through Direction |  |
|  |  | v/c ratio | g/c ratio |  | v/c ratio | g/c ratio |
| US 78 at E Park Pl Boulevard | F (108) | 1.03 | 0.55 | F (117) | 1.21 | 0.52 |
| US 78 at Parker Ct/Davis Rd | C (26) | 1.02 | 0.71 | D (45) | 1.1 | 0.66 |
| US 78 at Stone Dr/Driveway | C (23) | 1.01 | 0.72 | F (82) | 1.2 | 0.58 |
| US 78 at Lake Lucerne Rd | E (60) | 1.13 | 0.62 | C (32) | 0.95 | 0.77 |
| US 78 at Ross Rd | C (22) | 0.94 | 0.64 | D (55) | 1.1 | 0.59 |
| US 78 at Killian Hill Rd/ Bethany Church Rd | F (104) | 1.05 | 0.53 | F (96) | 1.0 | 0.52 |
| US 78 at Veracruz/Oakland Park Blvd | B (14) | 0.89 | 0.67 | A (9) | 0.82 | 0.7 |

Based on existing operational issues identified by agency staff and field reviews during the peak periods, the following needs are listed in Table 2.1.3.

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## Table 2.1.3 Existing Operational Needs

| Intersection or Street |  | Operational Needs |
| :---: | :---: | :---: |
| 1 | E Park Place Blvd \& US 78 | Increase Intersection Capacity; Reduce vehicle queue along US 78 to adjacent signals; Add capacity for sidestreet left-turns |
| 2 | US 78 at Parker Ct/Davis Rd | Improve capacity due to new development traffic |
| 3 | Stone Dr/Shopping Center \& US 78 | Increase capacity for westbound left-turn |
| 4 | US 78 \& Lake Lucerne Rd | Review opportunity to remove/modify exclusive pedestrian phase across the east leg |
| 5 | Ross Rd \& US 78 | Side streets operate with split-phase which reduces capacity; study opportunity to remove split-phasing |
| 6 | Bethany Church Rd/Killian Hill Rd \& US 78 | Additional eastbound and westbound left-turn capacity; improve northbound/southbound capacity/ lane utilization; identify enhancements due to high pedestrian volumes at intersection; enhance or modify westbound U-turn movement |
| 8 | Hewatt Rd \& US 78 | Increase capacity for southbound approach and eastbound left-turn movement |
| 9 | Parkwood Rd \& US 78 | Side street approaches consist of a single lane for all movements; review opportunity to add lanes |
| 14 | Henry Clower Blvd/ Knollwood Dr \& US 78 | This signal will become the primary location for northbound to westbound left turns when the CFI is completed at the SR 124/Scenic Highway intersection; monitor operations in the future |
| 16 | Henry Clower Blvd/ Oak Rd \& US 78 | Additional capacity to address the volume and queues |
| 17 | Skyland/ Wisteria Dr \& US78 | Additional capacity to the volume and queues; investigate geometric options to improve the skewed intersection |

## Needs Assessment

In summary, to improve operations along the US 78 corridor, there are three critical areas which currently experience congestion and where improvements should be prioritized.

- The first area along US 78 is around the E Park Place Blvd intersection, and extending eastward
- The second area along US 78 is around the Killian Hill Rd/Bethany Church Rd intersection.
- The third area is along US 78, beginning at the SR $124 /$ Scenic Highway intersection and extending to the east.


## 2.1-Transportation Safety

The needs assessment identified the following opportunities to improve the corresponding safety needs identified along the US 78 corridor.

## Safety Needs

1. Crashes at intersections
2. US 78 segment with highest crash rate
3. High percentage ( $15 \%$ ) of sideswipe-same direction accidents along US 78
4. Re-occurring crashes along corridor causing travel delays
5. Re-occurring crashes/incidents along corridor causing travel delays
```
Opportunities to Improve
    Safety
1. Intersection/Safety
Improvements Study
2. Raised median along US }78\mathrm{ west
of SR 124/Scenic Hwy
3.Widen through travel lanes (from
10.5 ft) to 11 ft
4.Redundancy in Roadway Network
(i.e. additional secondary roads)
5.Dedicated Incident/Break-down
corridor Operator
```

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An explanation of the opportunities to improve safety is provided below:

## Intersection Safety and Improvement Study

The top ten intersections, in terms of number of accidents, are recommended to be studied further to identify potential safety improvements. Examples of safety improvements could include converting a permissive left-turn phase to a protected-only phase; signal timing adjustment; or geometric reconstruction. The top two intersections, based on total number of crashes, are US 78 at Killian Hill Road/Bethany Church Road, and US 78 at E. Park Place Boulevard.

Raised Median along US 78, east of SR 124/Scenic Highway Install a raised median to replace the existing center two-way left-turn lane. This should reduce crashes and improve operations.

## Widen through travel lanes (from 10.5 feet) to 11 -feet

The high percentage ( $15 \%$ ) of sideswipe-same direction accidents along the corridor indicates the narrower lane width could be attributing to this crash type. As part of future intersection improvement projects and/or roadway reconstruction projects, consider widening all of the travel lanes, or at a minimum the outside (right-most) travel lane to better accommodate commercial vehicle trucks. Along some segments of US 78 there are paved shoulders which could be striped to widen the outside travel lane for relative low cost.

## Redundancy in Roadway Network (i.e. additional secondary roads)

Re-occurring crashes along corridor result in reduced travel times, and can have a significant impact during the peak volume periods. Travelers desire a consistent travel time. To improve travel times, providing redundancy in the roadway network provides an opportunity for drivers to re-route their trip around a crash or incident. This improvement consists of constructing/connecting additional parallel streets along both sides of US 78 (where feasible), and in some locations additional quadrant roads at major side-streets.
Dedicated Incident/Break-Down Corridor Operator
Consideration of providing one dedicated vehicle and attendant to monitor the US 78 corridor during critical periods and respond as needed. The attendant could respond to vehicle breakdowns in the travel lanes, and assist with moving the vehicle out of the travel lane, and aiding the driver in need (i.e. with changing a flat tire; calling a tow service). The attendant could also assist emergency response personnel with lane closures or advance notification to drivers of an incident ahead (with use of message sign mounted on truck). In terms of hours of operation, this service may experience the best return on investment during the weekday AM period (5:00AM - 9:00AM) , weekday PM period (2:00PM - 6:00PM), and during the Saturday mid-day period (10:00AM - 4:00PM) - when the corridor volumes are the highest of all days. Additional time periods, such as during the busy December shopping season, may also be appropriate to maintain travel speeds along the US 78 corridor.

## Needs Assessment

## 2.3-Truck Operations

Truck traffic is also relatively high, with heavy vehicles making up between 8-percent to 10 -percent of the total traffic on a daily basis. A key observation is the single-unit heavy vehicles constitutes a majority of the total truck volume. The percentage of combination vehicles (the large commercial vehicles) is around 1-percent of the daily and peak hour volumes. This equates to around 600 commercial vehicles per day, and about 40 commercial vehicles during the peak hour.

The US 78 corridor is a designated truck route for the Atlanta region. The infrastructure needs to be maintained in a good state of repair and upgraded as appropriate to maintain consistent traffic flow and reliable travel times. Additionally, access management along the corridor needs to be maintained, and improved when feasible, to protect the freight corridor.

In terms of infrastructure, the roadway pavement condition needs to be maintained to accommodate the high traffic volume and truck volumes. There are some pavement locations which are recommended to be reviewed and repaired in the near term. The traffic signal equipment, detection, and traffic cameras need to be maintained. Fortunately, to address this Georgia DOT is performing active management of the US 78 corridor as part of the Regional Traffic Operations Program.

As stated previously, an option to improve safety along the US 78 corridor is to widen the through travel lanes - from 10.5 feet to 11 -feet. This would provide additional maneuvering room for commercial vehicles and wide-loads moving through the corridor.

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## 2.4-Bike/Pedestrian Needs

A significant portion of traffic on US 78 is associated with employees of these businesses traveling to and from work. The existing conditions analysis identified that workers generally live in southern and central Gwinnett County, with the highest concentrations of employees living immediately south of the study area, between US 78, SR 124/Scenic Highway, and SR 264/Bethany Church Road.

Based on this information, an identified need is to provide/enhance alternate transportation access from the US 78 corridor to the adjacent residential neighborhoods and areas. Improving access would reduce the number of vehicles on the roadway and provide an alternate mode. Access could be provided in different forms, such as:

- Adding sidewalks from US 78 along major streets (such as Bethany Church Road, Hewatt Rd/Everson Rd/Leach Rd, Parkwood Rd)
- Providing public transportation to/from adjacent residential neighborhoods to the businesses and retail destinations along the US 78 corridor

There are currently no designated bicycle facilities along streets within the CID. Bicyclists are observed riding in sidewalks along the US 78 corridor to reach their destinations, which include employment or retail. There is an opportunity to establish a parallel facility to US 78 to provide bicycle travel. This bicycle facility would preferably be separated from US 78, and provide for both short-distance and long-distance travel. To enhance this facility, a connection to the Stone Mountain Park would provide a recreation destination.

## Needs Assessment

## 2.5-Transit Needs

In addition to the existing GRTA Xpress Route service along the US 78 corridor, there is a need to provide public transportation for destination within the corridor and nearby. Based on the existing conditions analysis, which identified a high rate of local trips within the subarea around the US 78 corridor, providing some form of public transportation would improve access for employees and residents. There are many forms of local transit service. One opportunity to consider is a 'flex service' which offers the convenience of an on-demand, door-to-door service by reservation and the flexibility of walk-up service from a collection point. An example of this service is FLEX which operates in Cobb County. For the US 78 corridor, a 'zone' could be established, for instance a 2-mile distance from the US 78 corridor.

To improve the existing GRTA Xpress Route service along US 78, and mitigate the impacts of traffic congestion on bus service, elements of bus rapid transit could be constructed. Examples of these could include queue jumpers, or improved off-street Xpress bus stations at the park-nride lots.

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## 2.6-Autonomous Vehicles

The impacts of autonomous vehicles on the transportation system in the next ten years and beyond are unknown at this time. There is significant interest in autonomous vehicles and speculation on autonomous vehicles impact on travel behavior, the capacity of our transportation system, or the land use and character of the community. At this time, there is a need to recognize autonomous vehicles will have an important effect on our transportation system and how we utilize it. Therefore, there will be a need to support infrastructure improvements which accommodate the future introduction of autonomous vehicles.


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## Needs Assessment

## 2.6-Community

## Survey Results

As part of the plan, an on-line survey was conducted in May 2018. A short nine-question survey was provided to the community. Results of the feedback received is provided on the following pages.


Over half of respondents (57\%) noted that they live on or near this segment of US 78 as the primary reason as to why they travel on 78 between Stone Mountain and Snellville. A third of respondents also answered that they manage or own a business along the corridor segment.

An overwhelming majority ( $86 \%$ ) of respondents travel along the corridor via automobile alone for work or school. This is compared to about $3 \%$ of respondents utilize public transportation (GRTA, MARTA, etc.) to traverse the corridor for similar trips.


## Needs Assessment

For other types of trips, most respondents ( $93 \%$ ) also noted that they get around the corridor segment via automobile, particularly as single-occupancy trips. However, close to $11 \%$ of trips were also done via carpool.


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Congestion on US 78 was noted as the most problematic challenge for this segment of US 78. Difficulty driving across US 78 from one side to the other, as well as difficulty turning into and out of businesses along 78 were also noted as common challenges.


The top four investments noted by respondents along this segment of 78 include: Intersection Capacity Improvements (67\%), Improved safety for left turns from US 78 to side streets (50\%), Parallel roads for local access (44\%) and Major Roadway Capacities (additional lanes) (41\%).


## 3-Recommendations

Based on previously identified needs, stakeholder input, and traffic analysis of intersection conditions along US 78, transportation recommendations were developed for the Evermore CID Comprehensive Transportation Plan. This section presents the recommended projects, the evaluation of the projects, and the potential implementation phasing. For many of the projects, planning level cost estimates were performed. Additionally, fifteen projects were identified as having a high return on investment.

# 3.1-Recommended Improvement Categories 


#### Abstract

A safe and efficient transportation system is key to a vital community. Recommended transportation improvements identified to address the needs were grouped into six improvement categories, as indicated below.


| Improvement Categories |  |
| :--- | :--- |
| 1. Intersection Improvements | These projects address traffic congestion and improve <br> operations and safety. These projects include additional <br> travel lanes, new signals, roundabouts, and median opening <br> modifications. |
| 2. Roadways | These projects were identified in terms of operations, safety <br> and travel efficiency. These projects consist of additional travel <br> lanes, new street connections, and constructing additional <br> parallel streets along US 78 (where feasible), and in some <br> locations additional quadrant roads at major intersections. |
| 3. Bridges | This project will enhance the road network of parallel streets by <br> adding a new bridge over US 78. |
| 4. Pedestrian \& Bicycle | These projects include constructing multi-use facilities for <br> bicycles and pedestrians, primarily along local streets, to <br> connect businesses to Stone Mountain Park, residential areas, <br> schools, and transit service along US 78. |
| 5. Transit | These projects identify opportunities to expand local bus service <br> by providing a 'flex service' in the US 78 area, to improve the <br> existing GRTA Xpress Route stops along US 78, and mitigate the <br> impacts of traffic congestion on bus service |
| 6. Other Projects | This category captures technological enhancements, further <br> safety studies, and an idea to provide one dedicated vehicle and <br> attendant to monitor the US 78 corridor during critical periods <br> and respond as needed. |

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## 3.2-Recommended Transportation Projects

The CTP identified forty-six recommended transportation projects. These projects are identified in Table 3.1. The projects fall into the following six improvement categories:

- Intersection Improvements (16 projects)
- Roadways ( 15 projects)
- Bridge - (1 project)
- Pedestrian and Bicycle (6 projects)
- Transit (5 projects)
- Other projects (3 projects)

Table 3.1 provides the project type, project ID, project name, project description, source (for instance, projects listed as Evermore CID CTP originated as part of the Evermore CTP effort while projects listed as Destination 2040, the Gwinnett County Comprehensive Transportation Plan, means this is a Gwinnett County planned or programmed project). The table provides a project status, potential implementation tier, planning level cost estimate, and potential funding partners, and whether the project is expected to have a high return on investment.

Associated with Table 3.1 are two figures which illustrate many of the recommended project locations:

- Figure 3.1 Recommended Projects - Roadway/Intersection/Bridge
- Figure 3.2 Recommended Projects - Pedestrian/Bicycle/Trail

Table 3.1 indicates the potential implementation tier for the transportation projects. All the projects are classified into short-term, mid-term, and long-term time frames. For the implementation process of the Evermore CID CTP, dividing the projects into three time frames allows the CID Board to consider and implement these projects based on the current or future needs and funding availability.

| Table 3.1- Recommended Transportation Projects |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Type | Project ID | Project Name | Project Description | Source | Status | Implementation Tier | High ROI | Planning Level Cost Estimate | Potential Funding Partners |
| Intersection | I-1 | US 78 at E. Park Place Blvd | Construct intersection improvement; recommended addition of third northbound left-turn lane along E. Park Place Blvd to westbound US 78; add raised median along northbound approach | $\begin{aligned} & \text { Destination } 2040 \\ & \text { CTP; \# GCint_050 } \end{aligned}$ | CTP Level <br> 1- Partial Funding | SHORT | X | \$950,000 | SPLOST, GDOT |
| Intersection | I-2 | NE Quadrant Roadway at US 78/E. Park Place Blvd - Using Glenn Club Drive | Utilize Glenn Club Drive as a quadrant roadway; install new traffic signal at US 78 to provide SB left-turn movement to US 78 eastbound; note existing directional median opening located at Glenn Club Drive; (companion project is SE Quadrant Roadway) | Evermore CID CTP |  | SHORT | X | \$450,000 | SPLOST, GDOT |
| Roadway | R-1 | SE Quadrant Roadway at US 78/E. Park Place Blvd | Modify/upgrade road (Sharp Trail) to create a quadrant roadway; note existing directional median opening located at Sharp Trail allows WB left-turn movement; (companion project is NE Quadrant Roadway); approx. 0.3 miles | Evermore CID CTP |  | MID | -- | \$4,740,000 | SPLOST, GDOT |
| Roadway | R-2 | New street and bridge over US 78, connecting Park Plaza Dr to Rockbridge Rd/new public street (project R-3) | Adding local street to improve business access and street network; provides alternate north/south travel to congested E. Park Place intersection; provides pedestri$\mathrm{an} /$ bicycle connectivity between north and south sides of US 78; approx. 0.3 miles | Evermore CID CTP |  | LONG | -- | \$17,905,000 | SPLOST, GDOT |
| Roadway | R-3 | Provide public street between W Park Place Blvd and E Park Place Blvd | Modify/upgrade roads through Stone Mountain Square shopping center to provide a public street connection could include pedestrian/bicycle facilities; project includes intersection improvement at West Park Place Blvd; potentially tie-road into US 78 Eastbound off-ramp; coordinate improvements with property owner and future development; approx 0.6 miles | Evermore CID CTP |  | MID | -- | \$8,135,000 | SPLOST |
| Roadway | R-13 | New Parallel Local Street, north of US 78, from Glenn Club Dr to Puckett Rd | Adding two-lane local street to improve business access and street network; approx 0.3 miles; coordinate project with redevelopment activities | Evermore CID CTP |  | LONG | -- | \$5,315,000 | SPLOST |
| Roadway | R-4 | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Rockbridge Road to Lake Lucerne Road (New Location) | Along south side, adding parallel two-lane road from Rockbridge Road to Lake Lucerne Road; potential for four-lane roadway (cost estimate for two-lane road) | Destination 2040; \#CTpnd_008 | CTP Level <br> 1- Partial Funding | LONG | -- | -- | SPLOST |
| Roadway | R-4a | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Rockbridge Road to Davis $\operatorname{Dr}$ (New Location) | Adding two-lane local street to improve business access and street network; approx 0.5 miles | Destination 2040 ; segment of \#CTpnd_008 | CTP Level <br> 1- Partial Funding | MID | -- | \$8,115,000 | SPLOST |


| Table 3.1 - Recommended Transportation Projects (Continued) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Type | Project ID | Project Name | Project Description | Source | Status | Implementation Tier | High ROI | Planning Level Cost Estimate | Potential Funding Partners |
| Roadway | R-4b | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Davis Road to Stone Dr (New Location) | Adding two-lane local street to improve business access and street network; approx 0.5 miles | Destination 2040 ; segment of \#CTpnd_008 | CTP Level <br> 1- Partial <br> Funding | LONG | -- | \$6,730,000 | SPLOST |
| Roadway | R-4c | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Stone Dr to Lake Lucerne Road (New Location) | Adding two-lane local street to improve business access and street network; approx 0.5 miles | Destination 2040 ; segment of \#CTpnd_008 | CTP Level <br> 1- Partial <br> Funding | LONG | -- | \$6,160,000 | SPLOST |
| Roadway | R-5 | Roadway Improvements on Parker Ct , north of US 78 | Re-stripe existing pavement to provide southbound leftturn lane and shared through/right-turn lane between Chick-Fil-A driveway and US 78; modify Quiktrip driveway on Parker Ct to be a right-in/right-out; project would improve southbound vehicle flow at the US 78 traffic signal | Evermore CID CTP |  | SHORT | X | \$50,000 | SPLOST |
| Roadway | R-6 | New Parallel Local Street, north of US 78, from Pucketts Drive to Lowes Shopping Center (New Location) | Adding two-lane local street to improve business access and street network; approx 0.2 miles | Evermore CID CTP |  | MID | X | \$4,385,000 | SPLOST, GDOT, GRTA |
| Intersection | I-3 | US 78 at Stone Dr/Lowes Driveway | Add dedicated northbound right-turn lane along Stone Dr with raised channelized island | Evermore CID CTP |  | SHORT | X | \$265,000 | SPLOST, GDOT |
| Roadway | R-7 | Construct roadway improvements along Stone Drive, between US 78 and Hudson Drive (companion project to \#1-3) | At intersection with US 78: Lengthen northbound left-turn storage along Stone Drive; add dedicated northbound right-turn lane along Stone Dr with raised channelized island. Potentially adjust vertical grade to improve visibility for turning vehicles at US 78 intersection. Potential re-alignment improvements at the Stone Dr/Hudson Drive intersection; maintain southbound leftturn lane along Stone Dr. | Evermore CID CTP |  | MID | -- | \$3,065,000 | SPLOST |
| Intersection | I-4 | US 78 at Gresham Road | To address heavy westbound left-turn movement during the PM peak hour at the US 78/Stone Drive intersection: relocate existing partial median opening (westbound left-turn movement) located at Advance Auto Parts business approx. 270 -feet to intersection of Gresham Rd. This requires improving Gresham Road to County standards (included in cost estimate) | Evermore CID CTP |  | SHORT | x | \$2,245,000 | SPLOST, GDOT |
| Bridge | B-1 | US 78 / SR 10 / Stone Mountain Highway Parallel Road Connecting Bridge (New Bridge) | Adding new bridge over US 78, connecting local parallel street from the north and south side of US 78 | $\begin{aligned} & \text { Destination 2040; } \\ & \text { \#CTpnd_009 } \end{aligned}$ | CTP Level <br> 1- Partial Funding | LONG | -- | \$15,510,000 | SPLOST, GDOT |


| Table 3.1 - Recommended Transportation Projects (Continued) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Type | Project ID | Project Name | Project Description | Source | Status | Implementation Tier | High ROI | Planning Level Cost Estimate | Potential Funding Partners |
| Roadway | R-8 | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Lake Lucerne Road to Hewatt Road (New Location) | Along north side, adding parallel road from Lake Lucerne Road to Hewatt Road | Destination 2040 ; \#CTpnd_007 | CTP Level <br> 1- Partial Funding | MID | -- | \$21,985,000 | SPLOST |
| Roadway | R-8a | New Parallel local street, north of US 78, from Lake Lucerne Road to Paxton Lane | Adding two-lane local street to improve business access and street network; approx 0.5 miles | Destination 2040 ; segment of \#CTpnd_007 | CTP Level 1- Partial Funding | MID | X | \$11,780,000 | SPLOST |
| Roadway | R-8b | New Parallel local street, north of US 78 , from Killian Hill Rd to McDaniel Bridge Rd | Adding two-lane local street to improve business access and street network; approx 0.4 miles; coordinate project with redevelopment activities | Destination 2040 ; segment of \#CTpnd_007 | CTP Level 1- Partial Funding | LONG | -- | \$10,205,000 | SPLOST |
| Intersection | I-5 | US 78 at Ross Rd | Intersection modification includes removing side-street split-phase operation; reconstruct Ross Road northbound approach to have two left-turn lanes and shared through/right-turn lane; provide protected-only left-turn phase for northbound approach and protected/permitted left-turn phase for southbound approach. | Evermore CID CTP |  | SHORT | X | \$280,000 | SPLOST, GDOT |
| Intersection | I-6 | US 78 at Killian Hill Rd/Bethany Church Rd | Add second eastbound left-turn lane and second westbound left-turn lane; improve northbound and southbound lane merge locations to improve operations; construct dedicated southbound left-turn lane at southern driveway to Mountain View Village shopping center and southbound left-turn lane at Wiloaks Drive; at US 78 at Country Walk - consider providing westbound left-turn median opening (to reduce westbound u-turn volume at signal) | Evermore CID CTP |  | SHORT | X | \$3,230,000 | SPLOST, GDOT |
| Intersection | I-14 | Killian Hill Road at Paxton Lane | Construct intersection improvement, possibly roundabout, to improve operations and safety; a related improvement is modifying the northbound right-turn at the intersection of Ross Road at Paxton Lane; these improvements will reduce the eastbound left-turn volume at the intersection of US 78 at Killian Hill Road (note: Paxton Ln is a private road) | Evermore CID CTP |  | SHORT | X | \$2,030,000 | SPLOST |
| Roadway | R-14 | Construct/re-align Colima Way with McDaniels Bridge Road | Construct improved road connection between Veracruz Dr and Hewatt Road; this would help facilitate the heavy eastbound left-turn movement at the US 78/Hewatt Road signal; coordinate with proposed parallel street (project \#R-8); further study recommended to refine concept | Evermore CID CTP |  | MID | -- | \$790,000 | SPLOST |
| Roadway | R-15 | Interparcel access connection | Partner with private properties to develop an interparcel connection from west of Monterey Drive to Veracruz Dr; approx. 0.2 miles | Evermore CID CTP |  | MID | -- | TBD | SPLOST |


| Project Type | Project ID | Project Name | Project Description | Source | Status | Implementation Tier | High ROI | Planning Level Cost Estimate | Potential Funding Partners |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Intersection | I-7 | US 78 at Hewatt Rd | Add second westbound left-turn lane and second eastbound left-turn lane along US 78; provide merge lanes north and south of intersection; add second northbound left-turn lane and second northbound through lane along Hewatt Rd | Evermore CID CTP |  | SHORT | X | \$2,080,000 | SPLOST, GDOT |
| Roadway | R-9 | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Hewatt Road to Britt Road | Adding new local road from Britt Road to Hewatt Road along north side of US 78 | $\begin{aligned} & \text { Destination 2040; } \\ & \text { RTP \#GW-331 } \end{aligned}$ | CTP Level <br> 1; Design \& ROW Acquisition | SHORT | X | \$16,740,000 | SPLOST, GDOT |
| Intersection | I-8 | US 78 at Parkwood Rd | Add northbound left-turn lane and southbound left-turn lane | Evermore CID CTP |  | LONG | -- | \$375,000 | SPLOST |
| Intersection | I-9 | ing <br> Westside Ct. Partial Median Open- | Add Partial Median Opening to provide access to Westside Ct | Highway 78 LCI |  | LONG | -- | \$575,000 | SPLOST, GDOT |
| Intersection | I-10 | US 78 at Oak Rd/Henry Clower Blvd (east) | Add third westbound through lane and convert eastbound right-turn lane to a shared through/right-turn lane; this project can be stand-alone or built as part of widening project \#SNE_135; Note: Gwinnett DOT requested CTP review potential options | Evermore CID CTP |  | LONG | -- | TBD | SPLOST, GDOT |
| Intersection | I-11a | US 78 at Wisteria Dr/Skyland Dr -Mid-term | Improve geometry at skewed intersection; potential to re-align intersection to the west (with Church St); recommend study to review options, including potential new parallel street south of US 78 connecting Church St to Skyland Dr; potential to close Skyland Dr; Note: Gwinnett DOT requested CTP review potential options | Evermore CID CTP |  | MID | -- | \$5,460,000 | SPLOST, GDOT |
| Intersection | I-11b | US 78 at Wisteria Dr/Skyland Dr -Long-term | Improve geometry at skewed intersection; add third westbound through lane, third eastbound through lane, and eastbound right-turn lane; this project can be standalone or built as part of widening project \#SNE_135; Note: Gwinnett DOT requested CTP review potential options | Evermore CID CTP |  | LONG | -- | TBD | SPLOST, GDOT |
| Roadway | R-10 | NE Quadrant Roadway at US 78/ Wisteria Drive | Construct 800 ft of new road connecting Hugh Drive and Eastgate Place to create a quadrant roadway; install new traffic signal at US 78 to provide SB left-turn movement to US 78 eastbound; Note: Gwinnett DOT requested CTP review potential options | Evermore CID CTP |  | SHORT | X | \$4,075,000 | SPLOST, GDOT |
| Roadway | R-11 | US 78/Main Street Widening | Widen from 4 to 6 lanes; install center raised median; from SR 124 to SR 84 | $\begin{aligned} & \text { Destination } 2040 \\ & \text { CTP; \#SNE_135 } \end{aligned}$ | CTP Level 3 | LONG | X | \$16,500,000 | SPLOST, GDOT |


| Table 3.1 - Recommended Transportation Projects (Continued) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Type | Project ID | Project Name | Project Description | Source | Status | Implementation Tier | High ROI | Planning Level Cost Estimate | Potential Funding Partners |
| Intersection | I-12 | West Park Place Boulevard at Rockbridge Road | Intersection Safety and Alignment Project (Concept TBD) | Destination 2040 CTP: \#Gcint 030 | CTP Level 1 | SHORT | -- | TBD | SPLOST |
| Roadway | R-12 | SR 124/Scenic Hwy | Widen from 4 to 6 lanes; from US 78 to Sugarloaf Park- | $\begin{aligned} & \text { Destination } 2040 \\ & \text { CTP; \#Gcmri_31; } \\ & \text { RTP GW-269 } \end{aligned}$ | CTP Level 1 | MID | X | \$39,300,000 | SPLOST, GDOT |
| Intersection | I-13 | SR 124 / Scenic Highway at Wisteria Drive Realignment, Traffic Signal and Turn Lanes | Intersection improvements (Concept TBD) | Destination 2040; \#SNE_187 | CTP Level 1 | SHORT | -- | TBD | SPLOST, GDOT |
| Intersection | I-15 | Killian Hill Road at McDaniels Bridge Road | Construct intersection improvement, possibly roundabout, to improve operations and safety; this project will improve parallel traffic flow along US 78 | Evermore CID CTP |  | MID | -- | \$2,050,000 | SPLOST, GDOT |
| Intersection | I-16 | Hewatt Road at McDaniels Bridge Road | Construct intersection improvement, possibly roundabout, to improve operations and safety, and facilitate the westbound left-turn movement; the project will reduce the eastbound left-turn volume at the intersection of US 78 at Hewatt Road and improve parallel traffic flow along US 78 | Evermore CID CTP |  | MID | -- | \$2,050,000 | SPLOST, GDOT |
| Ped/Bike | PB-1 | Multi-use Path located parallel to US 78, connecting from Stone Mountain Park to Lake Lucerne Road | Construct multi-use facility for bicycles and pedestrians along local streets; connecting businesses to Stone Mountain Park, to residential areas, schools, and transit service along US 78 ; forms the main 'spine' of the network | Evermore CID CTP |  | LONG | -- | TBD | SPLOST |
| Ped/Bike | PB-2 | Multi-use Path located parallel to US 78, connecting from Lake Lucerne Road to Snellville City Hall | Construct multi-use facility for bicycles and pedestrians along local streets; connecting businesses to residential areas, schools, and transit service along US 78; forms the main 'spine' of the network; identified as Priority Aspirations in Gwinnett Trails Plan | Gwinnett Trails Plan |  | MID | -- | TBD | SPLOST |
| Ped/Bike | PB-3 | Yellow River Trail | Construct multi-use trail along Yellow River, north of US $78$ | Gwinnett Trails Plan |  | MID | -- | TBD | SPLOST |
| Ped/Bike | PB-4 | Construct multi-use paths (pedestrian and bicycle facilities) along all streets intersecting US 78 | Construct multi-use paths extending 1-mile outward into residential neighborhoods; streets include: Stone Dr, Lake Lucerne Rd, Ross Rd, Killian Hill Rd, Bethany Church Rd, Hewatt Rd, Parkwood Rd, Highpoint Rd, McGee Rd | Evermore CID CTP |  | SHORT | -- | TBD | SPLOST, GDOT |


| Table 3.1-Recommended Transportation Projects (Continued) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Project Type | Project ID | Project Name | Project Description | Source | Status | Implementation Tier | High ROI | Planning Level Cost Estimate | Potential Funding Partners |
| Ped/Bike | PB-5 | Multi-use Path along SR 124, connecting Snellville to Lawrenceville | Construct multi-use facility for bicycles and pedestrians along SR 124; part of the Core Trail Network in Gwinnett Trails Plan | $\underset{\text { Plan }}{\substack{\text { Gwinnett Trails }}}$ Plan |  | MID | -- | TBD | SPLOST |
| Ped/Bike | PB-6 | Construct pedestrian facilities along streets within the Park Place LCI area | Construct pedestrian facilities where missing to improve access | Park Place LCI |  | SHORT | -- | TBD | SPLOST |
| Transit | T-1 | Improvements at GRTA Xpress bus stations | Improvements at off-street GRTA Xpress bus stations/ park-n-ride lots | $\underset{\text { CTP }}{\text { Evermore CID }}$ |  | MID | -- | TBD | GRTA |
| Transit | T-2 | Local Bus Service along US 78 | One opportunity to local bus service along the corridor, from the West Park Place Blvd area to Snellville; Gwinnett County is currently studying potential transit expansion | Gwinnett County Transit Plan | Gwinnet County currently studying | MID | -- | TBD | county |
| Transit | T-3 | Local Bus Service in the form of "Flex" Service | One opportunity to consider is a 'flex service' which offers the convenience of an on-demand, door-to-door service by reservation and the flexibility of walk-up service from a collection point. An example of this service is FLEX which operates in Cobb County. For the US 78 corridor, a 'zone' could be established, for instance a 2 -mile distance from the US 78 corridor. | $\underset{\text { CTP }}{\text { Evermore CID }}$ | $\begin{aligned} & \text { Gwinnett } \\ & \text { County } \\ & \text { currently } \\ & \text { studying } \end{aligned}$ | MID | -- | TBD | county |
| Transit | T-4 | Install Queue Jumpers at critical intersections along US 78 | Install Queue Jumpers to improve transit travel time for GRTA Express buses and local service | $\begin{gathered} \text { Evermore CID } \\ \text { CTP } \end{gathered}$ |  | MID | -- | TBD | SPLOST, GDOT, GRTA |
| Transit | T-5 | Bus Stop Amenities at local bus stops | Install Bus Stop Shelters, benches, and access improvements at bus stops when local bus service is implemented along US 78 | $\begin{aligned} & \text { Evermore CID } \\ & \text { CTP } \end{aligned}$ |  | MID | -- | TBD | SPLOST |
| Study | 0-1 | Intersection Safety and Improvement Study | The top ten intersections, in terms of number of accidents, are recommended to be studied further to identify potential safety improvements | $\underset{\text { CTP }}{\text { Evermore CID }}$ |  | SHORT | -- | \$15,000 | CID, COUNTY |
| Program | O-2 | Dedicated Incident/Break-down Corridor Operator | A service providing one dedicated vehicle and attendant to monitor the US 78 corridor during critical periods and respond as needed; hours of operation could be during high volume periods. Partner with Gwinnett County and Georgia DOT. | $\begin{gathered} \text { Evermore CID } \\ \text { CTP } \end{gathered}$ |  | MID | -- | TBD | CID, COUNTY, GDOT |
| ATMS/ITS | 0-3 | Upgrade vehicle detection equipment at signalized intersections along US 78 | To improve safety at intersections upgrade dilemma zone protection (enhanced traffic signal technology) to detect large vehicles/Commerical Vehicles approaching intersections and adjust signal clearances | $\begin{aligned} & \text { Evermore CID } \\ & \text { CTP } \end{aligned}$ |  | SHORT | -- | \$15,000 PER INTER- SECTION | SPLOST, GDOT |



Figure 3.1.1 - RECOMMENDED PROJECTS - ROADWAY/INTERSECTION/BRIDGE


Figure 3.1.2- RECOMMENDED PROJECTS - PEDESTRIAN/BICYCLE/TRAIL

## Recommendations

Table 3.2 indicates the planning level cost estimate and evaluation criteria results for the individual transportation projects. This table provides the project ID, project name, planning level cost estimate (divided into PE, ROW, CST and contingency), and six evaluation criteria including improving vehicular travel, improving U.S. 78 capacity, improving safety, enhancing multi-modal connections, improving access to business, and enhancing 'Last Mile' connectivity.

An additional review of the projects was performed to provide the Evermore CID with a subset of the project list. Table 3.3 lists the top 15 high return on investment projects by project ID, project name, implementation tier, and planning level cost estimate. The Evermore CID may choose to focus efforts on these projects.

| Table 3.2-Recommended Transportation Projects - Cost Estimate and Evaluation |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Projects | Planning Level Cost Estimate |  |  |  |  | Evaluation Criteria - Goals Achieved |  |  |  |  |  |
| Project ID | Project Name | Planning <br> Level Cost <br> Estimate | PE | ROW | CST | Contingency | Improve Vehicular Travel | Improve US 78 Capacity | Improve Safety | Enhance Multi-modal Connections | Improve Access to businesses | Enhance 'Last Mile' Connectivity |
| I-1 | US 78 at E. Park Pl Blvd | \$950,000 | \$95,000 | \$180,000 | \$545,000 | \$130,000 | x | x |  |  |  |  |
| I-2 | NE Quadrant Roadway at US 78/E Park Pl Blvd - Using Glenn Club Dr | \$450,000 | \$45,000 | \$0 | \$340,000 | \$65,000 | X | X |  | X |  |  |
| R-1 | SE Quadrant Roadway at US 78/E. Park Place Blvd | \$4,740,000 | \$180,000 | \$3,010,000 | \$1,210,000 | \$340,000 | X | X |  | X |  |  |
| R-2 | New street and bridge over US 78 , connecting Park Plaza Dr to Rockbridge Rd/new public street (project R-3) | \$17,905,000 | \$1,475,000 | \$3,500,000 | \$10,090,000 | \$2,840,000 | X |  |  | X | X |  |
| R-3 | Provide public street between W Park Place Blvd and E Park Place Blvd | \$8,135,000 | \$525,000 | \$3,000,000 | \$3,880,000 | \$730,000 | X |  |  | X |  |  |
| R-13 | New Parallel Local Street, north of US 78, from Glenn Club Dr to Puckett Rd | \$5,315,000 | \$285,000 | \$2,550,000 | \$2,085,000 | \$395,000 | X | X |  | X |  |  |
| R-4 | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Rockbridge Road to Lake Lucerne Road (New Location) | \$21,005,000 | -- | -- | -- | -- | X | X |  | X |  |  |
| R-4a | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Rockbridge Road to Davis Dr (New Location) | \$8,115,000 | \$345,000 | \$4,760,000 | \$2,530,000 | \$480,000 | X | X |  | X |  |  |
| R-4b | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Davis Road to Stone Dr (New Location) | \$6,730,000 | \$360,000 | \$3,175,000 | \$2,505,000 | \$690,000 | X | X |  | X |  |  |
| R-4c | US 78/SR 10 Stone Mountain Highway Parallel Road from Stone Dr to Lake Lucerne Rd (New Location) | \$6,160,000 | \$335,000 | \$2,820,000 | \$2,355,000 | \$650,000 | X | X |  | X | X |  |
| R-5 | Roadway Improvements on Parker Ct, north of US 78 | \$50,000 | \$8,000 | \$0 | \$34,000 | \$8,000 | X |  | X |  |  |  |
| R-6 | New parallel Local street, north of US 78, from Pucketts Drive to Lowes Shopping Center (New Location) | \$4,385,000 | \$165,000 | \$2,785,000 | \$1,160,000 | \$275,000 | X | X |  | X |  |  |


| Table 3.2-Recommended Transportation Projects - Cost Estimate and Evaluation (Continued) |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Projects | Planning Level Cost Estimate |  |  |  |  | Evaluation Criteria - Goals Achieved |  |  |  |  |  |
| Project ID | Project Name | Planning Level Cost Estimate | PE | ROW | CST | Contingency | Improve Vehicular Travel | Improve US 78 Capacity | Improve Safety | Enhance Multi-modal Connections | Improve Access to businesses | Enhance 'Last Mile' Connectivity |
| I-3 | US 78 at Stone Dr/Lowes Driveway | \$265,000 | \$35,000 | \$30,000 | \$145,000 | \$55,000 | X | X |  |  |  |  |
| R-7 | Construct roadway improvements along Stone Drive, between US 78 and Hudson Drive (companion project to \#I-3) | \$3,065,000 | \$285,000 | \$915,000 | \$1,510,000 | \$355,000 | X |  | X |  |  |  |
| I-4 | US 78 at Gresham Road | \$2,245,000 | \$220,000 | \$345,000 | \$1,365,000 | \$315,000 | X | X |  |  | X |  |
| B-1 | US 78 / SR 10 / Stone Mountain Highway Parallel Road Connecting Bridge (New Bridge) | \$15,510,000 | \$1,315,000 | \$380,000 | \$11,185,000 | \$2,630,000 | X | X |  | X |  |  |
| R-8 | US 78 / SR 10 / Stone Mountain Highway Parallel Road from Lake Lucerne Road to Hewatt Road (New Location) | \$21,985,000 | -- | -- | -- | -- | X | X |  | X | X |  |
| R-8a | New Parallel local street, north of US 78, from Lake Lucerne Road to Paxton Lane | \$11,780,000 | \$725,000 | \$3,310,000 | \$6,075,000 | \$1,670,000 | X | X |  | X | X |  |
| R-8b | New Parallel local street, north of US 78, from Killian Hill Rd to McDaniel Bridge Rd | \$10,205,000 | \$590,000 | \$3,310,000 | \$4,945,000 | \$1,360,000 | X | X |  | X | x |  |
| I-5 | US 78 at Ross Rd | \$280,000 | \$40,000 | \$0 | \$200,000 | \$40,000 | X | X |  |  |  |  |
| I-6 | US 78 at Killian Hill Rd/Bethany Church Rd | \$3,230,000 | \$350,000 | \$340,000 | \$2,080,000 | \$460,000 | X | X | X |  |  |  |
| I-14 | Killian Hill Road at Paxton Lane | \$2,030,000 | \$170,000 | \$60,000 | \$1,500,000 | \$300,000 | X | X |  |  |  |  |
| R-14 | Construct/re-align Colima Way with McDaniels Bridge Road | \$790,000 | \$65,000 | \$340,000 | \$300,000 | \$85,000 | X |  |  |  | X |  |
| R-15 | Interparcel access connection | TBD | -- | -- | -- | -- | x | x |  |  |  |  |
| I-7 | US 78 at Hewatt Rd | \$2,080,000 | \$235,000 | \$270,000 | \$1,280,000 | \$295,000 | X | X | X |  |  |  |




## Recommendations

## 3.3-Project Evaluation

An important step in the transportation planning process is evaluating the candidate projects to indicate the potential benefits. As part of the planning process, a need assessment was performed based on the existing transportation system conditions. The needs assessment provided a preliminary list of transportation needs and opportunities to improve safety and operations.

The project evaluation goals were developed based on previously identified needs on improving traffic safety and operations to promote local businesses along the US 78 corridor. Additional input was provided from the on-line survey performed during the planning process. The project evaluation criteria are shown below.

| Improvement Categories | Improve Vehicular Travel <br> Impilitate safe and efficient movement of vehicles throughout the <br> US 78 corridor area |
| :--- | :--- |
| Improve Safety | Facilitate improved and efficient movement of vehicles along US <br> 78 |
| Enhance Multi-modal Connection | Enhances safety for vehicles, pedestrians and bicyclists . |
| Improve Access to Business | Connect the sidewalks, multi-use paths, and bicycle facilities to <br> allow safe and efficient travel to/from destinations along the US <br> 78 corridor |
| Enhance 'Last Mile' Connectivity | Provides new connections or enhancements to improve access to <br> businesses along the US 78 corridor |
| Provides new connections or enhancements, including <br> pedestrian, bicycle, and transit, for employees and patrons <br> accessing businesses and destinations along the US 78 corridor. |  |

## Recommendations

The candidate transportation projects were evaluated for their ability to meet the six Evermore CID CTP goals, as listed in Table 3.2. Planning level cost estimates were developed for the roadway and intersection projects. The cost estimates are preliminary and not based on concept drawings so additional engineering is recommended to refine the cost estimate. The cost estimates are indicated in Table 3.2.

Cost estimates were not prepared for the "Transit, Other, and Pedestrian/Bicycle" projects. These projects require further vetting and coordination with other agencies. The pedestrian and bicycle projects are primarily long multi-use path segments, which need further study and alignment determination.

Comprehensive
Transportation Plan

## 3.4-Implementation Plan

Implementation of the plan will require coordination and cooperation with adjacent jurisdictions, partner agencies, state agencies, and federal partners. Maintaining and improving the transportation network is an effort that many organizations and agencies must partner together to achieve. The CTP recommends that the Evermore CID continue coordinating with:.

- Gwinnett County DOT - related to funding and the implementation of the projects
- City of Snellville - related to funding and the implementation of the projects
- Georgia DOT - related to state route maintenance, and on-system and off-system funding for improvements
- Recreation Departments - related to providing new connections and multi-use facilities to recreational facilities
- DeKalb County - related to major projects which cross jurisdictional boundaries
- Transit agencies (Gwinnett Transit, GRTA)- related to current and future transit service


## Recommendations

The evaluation analysis presented in the CTP is intended to help the community to understand the relative merits of each of the transportation projects when compared to each other. However, the actual implementation and phasing of improvements is a slightly different consideration. Some projects that are easy to implement, have already undergone significant study and/or design, have funding, or may simply be inexpensive, need to be considered beyond just their prioritization. Conversely, there are projects that may eventually be of great benefit to the community, but have not begun the process of more detailed analysis and community discussion to understand policy, environmental, traffic impacts, and/or design feasibility.

The CTP divided the projects into three time periods. The short-term projects fall within the 0 to 5 -year timeframe. The mid-term projects within the 5 to 10 -year timeframe. And the long-term projects beyond 10 years. The CTP recommends the following implementation phasing. The actual implementation and phasing of improvements will need to consider many additional factors, including funding, ease of construction, benefit to community, and other projects and initiatives.

Short-term Projects: These projects include funding of roadway, sidewalk projects, connectivity projects, and operational improvement projects. The short-term projects include projects where construction is imminent, significant design and detailed study has taken place, and/or financial commitments have been made by the CID/ Gwinnett County and/or other transportation partners. The short-term projects also include projects that are anticipated to have relatively minimal complexity and/or financial commitment to implement.

Mid-term Projects: These projects form the second tier of funding of roadway, sidewalk projects, connectivity projects, and operational improvement projects. These projects are relatively more complex or not as far along in the life cycle of implementing a transportation project but are also not likely to include particularly challenging barriers to implementation, including the need for significant right of way or reliance on possible state or federal funds.

Long-term Projects: The remaining projects are recommended for consideration in the long-term ( 10 years or more). These projects are not anticipated in the short or mid-term; however, these projects are included in the Evermore CID CTP so that they can be considered for implementation in future CTP updates or as funding becomes available from local, state, or federal sources.

Identifying and effectively utilizing available transportation funding is a crucial element in successfully planning and implementing a transportation plan. A variety of funding sources are available; however, each has restrictions and implications. This is especially relevant since transportation funding is limited. Generally, funding is provided at the federal, state, and local levels. As for the Evermore CID CTP, Gwinnett County's SPLOST program and GDOT are important potential transportation funding partners. A local "match" such as funding from transit agencies and the Evermore CID is also required for some CTP projects. To implement the recommended transportation projects, the Evermore CID will need to pursue funds from many different available funding sources. Potential funding sources are indicated for each project in Table 3.1.

## Recommendations

## 3.5-Moving Forward

The US 78 corridor carries a substantial amount of traffic. The traffic volumes are expected to continue increasing in the corridor at a rate of one percent per year. A significant portion of traffic on US 78 is associated with employees of the businesses located along US 78 traveling to and from work. Workers generally live in the southern and central Gwinnett County, with the highest concentrations of employees living immediately south of the study area of the Evermore CID. The increasing travel demand can be addressed by implementing transportation improvements, for multiple travel modes.

Implementation of the plan will require coordination and cooperation with adjacent jurisdictions and partner agencies. The CTP has identified projects which the Evermore CID can study further, program, and seek funding based on their priorities.

The CTP is a dynamic document and is meant to be a 'living' document. Like other plans with respect to the Evermore CID area, the CTP document will need to be updated to ensure it remains accurate and reflects the latest data, recent development, or changing transportation needs. Many projects will be completed, and new needs will appear in the coming years.

This Evermore CID CTP document provides the recommendations for the CID leaders and Gwinnett County to consider and implement as they deem appropriate. It is paramount for the Evermore CID and Gwinnett County to continue investment in transportation infrastructure improvements to enhance the quality of life for the community.

