Mobility and connectivity are integral to any community’s quality of life. In order for its residents to have the ability to access the broader local and regional transportation networks, a Town’s local network must be safe, efficient and serve various modes of transport. This element will survey and analyze the existing conditions of the Island’s local transportation networks, transportation patterns and other key aspects that contribute to residents’ movement within the Town and outside of it.

## ROADS

As a barrier island, Sullivan’s Island has two points of access by land. The first point of access to Sullivan’s Island is through Mt. Pleasant via South Carolina Highway 703 (Coleman Boulevard/Ben Sawyer Boulevard) and the Ben Sawyer Bridge. The second point of access is through Isle of Palms across Breach Inlet on Jasper Boulevard.

There are over 24 miles of paved roads that traverse the Island, and nearly 22 of those road miles are maintained by the South Carolina Department of Transportation; the other 2.3 miles are maintained by the Town or by Charleston County. The only state highway on the island, Highway 703, includes Ben Sawyer Boulevard, Station 22 ½, and Jasper Boulevard, and it represents a key 2.6-mile segment of the Town’s transportation infrastructure.

Sullivan’s Island’s road system is comprised of a loose grid network of low-intensity streets typical of a beach community. The road network on Sullivan’s Island follows a pattern set forth originally by trolley lines between Sullivan’s Island, Isle of Palms, and Mount Pleasant and ferry docks in Mount Pleasant that provided access to downtown Charleston. All of the roads on Sullivan’s Island are designed for short, low-speed trips across the island.

## BICYCLE AND PEDESTRIAN FACILITIES

*Bicycle*

The Island is fortunate to be at the intersection of two major bicycle pathways, one regional and one national. The first major trail is the Battery 2 Beach (B2B) route.

Created by local advocacy group Charleston Moves, the B2B route is approximately 32 miles of mixed-use paths, connecting downtown Charleston, the Battery, to three Charleston-area beaches (Folly Beach, Sullivan’s Island, and Isle of Palms) and five local municipalities. The second major trail is

the East Coast Greenway, which is a 2,600 mile long multi-use, urban spine trail system, extending from the northeast corner of Calais, Maine (Calais, Maine) to the southern Florida Keys. Local bicycle facilities include the Ben Sawyer Bikeway, which runs from Mt. Pleasant, over the causeway and into Sullivan’s Island.

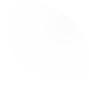
Additionally, the Island’s grid network lends itself to easy navigation for cyclists and pedestrians alike.

# Pedestrian

*Source: Charleston Moves*

As mentioned in the previous section, the Town has an extensive and efficient grid network of local roads that stretches from each end of the island. This grid allows for easy navigation, a diversity of routes to traverse the island, and fosters a human-scaled built environment. Low-speed local roads and sidewalks also add to the pedestrian environemnt throughout the Island, and opportunities to expand the sidewalk network, add crosswalks, and lower speed limits should be explored. Similar traits are reflected in the Town’s commercial center

located along Middle Street, from Station 22 ½ to Station 20. The proximity of businesses, parks, residences and recreational opportunities all increase walkability within the commercial district, as well as provide character to the area.



69

*Sullivan’s Island Comprehensive Plan 2018-2028: Transportation Element*

*Source: CARTA*

## PUBLIC TRANSPORTATION

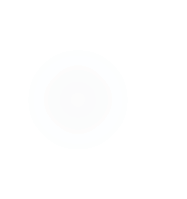
The Island is not directly served by the Charleston Area Regional Transportation Authority (CARTA) through regular route service. However, the Town is working with CARTA to explore opportunities for returning mass transit services to the Island. The Town has recently finished exterior restorations on two historic pump houses that are located in the Jasper Boulevard right of way. Another opportunity the Town may explore would be the establishment of a ferry service between the Island and Downtown Charleston.

## AVERAGE DAILY TRAFFIC VOLUMES

As a coastal community, Sullivan’s Island experiences higher traffic volumes in the summer months than any time of the year. Seasonal traffic volume data are no longer maintained, so Average Annual Daily Traffic (AADT),

collected by SCDOT year-round, has been utilized. Sullivan’s Island has four traffic counters which are depicted on the map and Figure 7.1.

Figure 7.1 shows that AADT had remained fairly constant in the years prior to the Pandemic, but the Pandemic brought about a sharp drop between the 2019 and 2020 traffic counts on the Island. However, the traffic on the Island has since rebounded, and the counts show that traffic has increased relatively significantly from the pre-Pandemic levels: the 2022 AADT for the 4 counter locations on Sullivan’s Island is 8.8% higher than it was in 2019, representing an increase of 3000 cars per day traversing the Island. The greatest increase has occurred on Middle Street just to the west of the Commercial District, where the count has gone up 25% between 2019 and 2022. This does not take into account seasonal traffic congestion where peaks may vary vastly from off season times. Although it should be noted that seasonal traffic patterns are included in the annual numbers. Table 7.1 shows the numbers that were used to derive Figure 7.1.



*Sullivan’s Island Comprehensive Plan 2018-2028: Transportation Element*

70

**MAP 7.1**

**Add updated traffic count map**

**FIGURE 7.1: AADT COUNTS FOR SULLIVAN’S ISLAND**

16,000



8,5

00

4,1

00

2,4

14,700

00

14,000

12,000

10,000

8,000

6,000

4,000

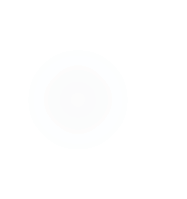
2,000

0

2007 2008 2009 2010 2011 2012 2013 2014 2015 2016

**TABLE 7.1: AVERAGE ANNUAL DAILY TRAFFIC COUNTS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TRAFFIC COUNTER # | | LOCATION | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|  | 273 | Before Ben Sawyer Bridge (Mt. P side) | 14,100 | 13,500 | 13,700 | 13,200 | 12,900 | **14,700** | 14,500 | 14,500 | 14,700 | 14,100 |
|  | 274 | Before Breach Inlet (SI Side) | **8,500** | 6,400 | 5,600 | 5,700 | 6,500 | 5,900 | 6,000 | 5,100 | 6,300 | 6,600 |
|  | 304 | Middle St - East of Commercial Area | 1,950 | 1,400 | 1,450 | 1,500 | 1,850 | 1,500 | 1,550 | 1,350 | 2,000 | **2,400** |
|  | 305 | Middle St - Near Commercial District | **4,100** | 3,400 | 3,100 | 2,900 | 3,400 | 3,100 | 3,200 | 2,800 | 3,100 | 3,600 |



*Sullivan’s Island Comprehensive Plan 2018-2028: Transportation Element*

72

**FIGURE 7.2: INFLOW/OUTFLOW JOB COUNTS IN 2015**

672: Employed in Selection Area - Live Outside 747: Live in Selection Area - Employed Outside 60: Employed and Live in Selection Area



*Source: Census on the Map*

## SULLIVAN’S ISLAND RESIDENT’S TRANSPORTATION PATTERNS

*Where Residents Live and Work*

According to Census On The Map (Figure 7.2), an estimated 636 workers who live on the Island commute out of the Town to their place of work. 546 workers commute to Sullivan’s Island daily for their jobs and only 45 workers live and are employed in the Town. All of these totals are significantly lower than the 2015 counts that were in the 2018 Comprehensive Plan.

# Transportation to Work

The primary mode of transportation for Sullivan’s Island residents is the automobile. This mode comprises 82.6% of the population. Of the residents who drive to work,76% drive alone and 7% carpool. For workers 16 years or older, 19.6% of drivers have one (1) vehicle, 37.9% have two (2) vehicles and 40.8% have three (3) or more vehicles available. These numbers are represented from the ACS 2022 summary data, and they show a shift since 2017, when the largest segment of the population had two vehicles, and now the largest segment has three or more vehicles.

Concerning alternative modes of transportation, 0.3% of the Town’s population used public transportation, 2.1% walked, 3.2% rode their bicycles, 1.1% used taxi services and

10.2% worked from home. Alternative modes of transportation are encouraged and supported by increasing installation of new bike racks and golf cart parking spaces at beach paths and throughout the Commercial District. It is of interest that the bike share rose by 700% from 2017 and the population that works from home actually dropped by nearly 10%.

**FIGURE 7.3: PRIMARY MODES OF TRANSPORTATION TO WORK BY RESIDENTS OF SULLIVAN’S ISLAND**



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Drive Alone | Work from Home | Carpool | Taxi Service | Walk | Public Transit | Bicycle |
| **80.0%** | **12.1%** | **3.5%** | **2.1%** | **0.6%** | **0.5%** | **0.4%** |

35.0%

30.0%

25.0%

20.0%

15.0%

10.0%

5.0%

0.0%

29.2%

26.0%

24.6%

13.6%

4.4%

2.1%

**FIGURE 7.4: TRAVEL TIME TO WORK**

Less than

10 minutes

10 to 19

minutes

20 to 29

minutes

30 to 44

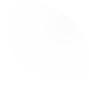
minutes

45 to 59

minutes

One hour

or more



73

*Sullivan’s Island Comprehensive Plan 2018-2028: Transportation Element*

**FIGURE 7.5: TIME LEAVING HOME FROM WORK**

5:00 a.m. to 5:59 a.m.

6.0%

1.9%

28.8%

31.7%

31.5%

6:00 a.m. to 6:59 a.m.

7:00 a.m. to 7:59 a.m.

8:00 a.m. to 8:59 a.m.

9:00 a.m. to 11:59 a.m.

# Travel Time to Work

The mean commute time to work for residents is 19 minutes. The most common commute time for residents is 20 to 24 minutes; in 2017 it was 10 to 19 minutes. Only a small percentage of commuters travel an hour or more to work. When workers leave for their work destination greatly varies. The largest percentage of work commutes (28.9%) began in the range of 8:00 a.m. and 8:59 a.m., with the second largest time window (20.6%) being from 9:00 a.m. to 11:59 a.m. Comparing 2017 to 2021 travel times reveals that commute times for residents are slightly shorter on the average, and the time that residents leave for work has become earlier and more spread-out across the morning hours.

## PARKING MANAGEMENT

In April 2017, a new parking plan was put into effect and enforced to improve public safety throughout the Island. The Town previously allowed day visitors to park on both sides of the street, but now, only one side will be available for parking in order to allow for emergency vehicles to easily access the beach or residences.

Even though 1,700 parking spots were eliminated, there are over 3000 public parking spaces along the edges of the right of ways across the Island and in designated parking facilities, which still exceeds the parking demand during peak season.*1* The Town previously allowed day visitors to park on both sides of the street, but now, only one side will be available for parking in order to allow for emergency vehicles to easily access the beach or residences.

The Town amended the zoning ordinance in 2012 to create a special exception opportunity in the Commercial District for short-term private parking lots; the first private parking lot to utilize the new section of the ordinance came online in 2020, and a second private parking lot is currently being discussed.

Additional sites in the Commercial District should be identified as potential parking management projects. One such site includes parking along Middle Street from Station 22 to Town Hall. Residents, visitors, and local workers are currently parking in the parallel parking stalls along this section of Middle Street for extended periods of time, thus depleting the parking stall inventory during peak hours. Potential management for this would be an enforceable two-hour only free parking period. Similar management has been enforced along the Battery, adjacent to White Point Gardens in downtown Charleston.

## Commercial District Transportation Improvements

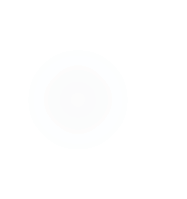
## In addition to parking issues in the Commercial District, the district has lacked significant public investment for years, despite the Town hiring a consultant and producing the Sullivan’s Island Community Commercial District Master Plan in 2010. While the plan did provide some good ideas for improvements in the District, it has not been incorporated into the Town’s budget through any capital improvement plans, and fourteen years later the plan needs to be rejuvenated and reconsidered before any strategies are implemented. The perpendicular parking spaces which straddle the property lines on the south side of Middle Street between Station 22 and Station 22.5 are of particular concern: larger vehicles do not fit into the spaces and end up obstructing the travel lanes; there is no clear sidewalk on the southside of Middle Street, and vehicles often encroach into the area where pedestrians move about, between the right of way and the buildings; and vehicles que in the travel lanes either waiting for a space to open or for a vehicle to back out into traffic from a parking space.

## While parking is a primary concern, any plan to revise the parking situation along Middle Street through the District needs to place paramount importance upon through access for emergency vehicles. One concept that has been floated (Figure XX.X) shows a concept to remove parking from the through lanes on Middle Street and create a parking lane that parallels the through lanes. Another concept that should be explored is the creation of designated pick up and drop off locations for rideshare vehicles; a common complaint from residents is the loading or unloading of rideshare passengers in the middle of the travel lanes.

## The Town recently worked with SCDOT to improve the conditions at the entrance to the Commercial District, where Ben Sawyer Boulevard turns into Station 22.5 and intersects Jasper Boulevard then Middle Street. The improvements limit turn movements at the intersections with Jasper Boulevard and with Middle Street, however the signage approaching these intersections has not been updated, and it leaves little time for drivers to assess where they would best benefit from turning. Signage directing drivers toward certain beach accesses or landmarks would help eliminate confusion for those who are unfamiliar with directions on the Island.

*New “No Parking” signs implemented in the Town. (Source: Grace Beahm, Post & Courier)*

1. *Findlay, Prentiss. 2017. “Sullivan’s rolls out new parking rules for visitors.” The Post & Courier. [https://www.postandcourier](http://www.postandcourier.com/news/sullivan-s-rolls-).com/[news/sullivan-s-rolls-](http://www.postandcourier.com/news/sullivan-s-rolls-) out-new-parking-rules-for-visitors/article\_8a60a3e8-fe8d-11e6-ae32-d35ca9fb78ca.html*



*Sullivan’s Island Comprehensive Plan 2018-2028: Transportation Element*

74