



Roadways

Transit

Bike / Ped

Parking

Airport

Ferries

# Nantucket Long Range Transportation Plan

2020 – 2040

May 20, 2019

# Long Range Transportation Plan Update: Development Process

<p><b>November 2018 to February 2019</b></p>	<ul style="list-style-type: none"> <li>- Update Community Profile</li> <li>- Solicit input on vision, goals, and objectives with public and transportation stakeholders</li> <li>- Supplement input with existing parking, open space and Master Plan survey results</li> </ul>
<p><b>February 21, 2019 to April 25, 2019</b></p>	<p>Develop initial draft plan with updated project descriptions and draft recommendations based on objective criteria. Conduct a Public Survey.</p>
<p><b>April 25, 2019 to May 20, 2019</b></p>	<p>Coordinate review of draft LRTP with Stakeholders: land use, environmental, historic preservation, and tribal agencies, as well as FHWA, FTA, MassDOT</p>
<p><b>May 20, 2019 to June 17, 2019</b></p>	<p>Conduct public review of draft</p>
<p><b>June 17, 2019</b></p>	<p>NP&amp;EDC approval of final LRTP</p>



# Survey Results

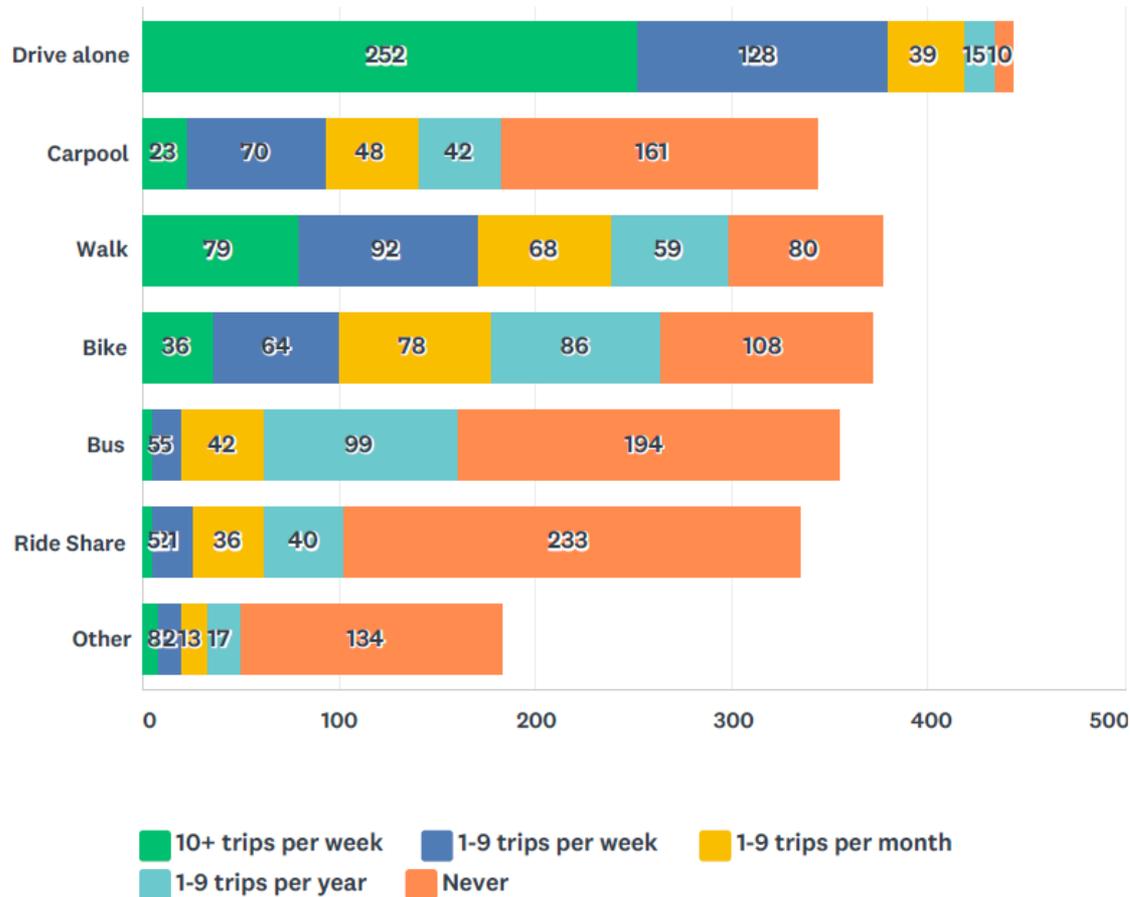
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## (Also see attached)

# Survey Responses

Q4 How frequently do you travel by each of the following modes of transportation?

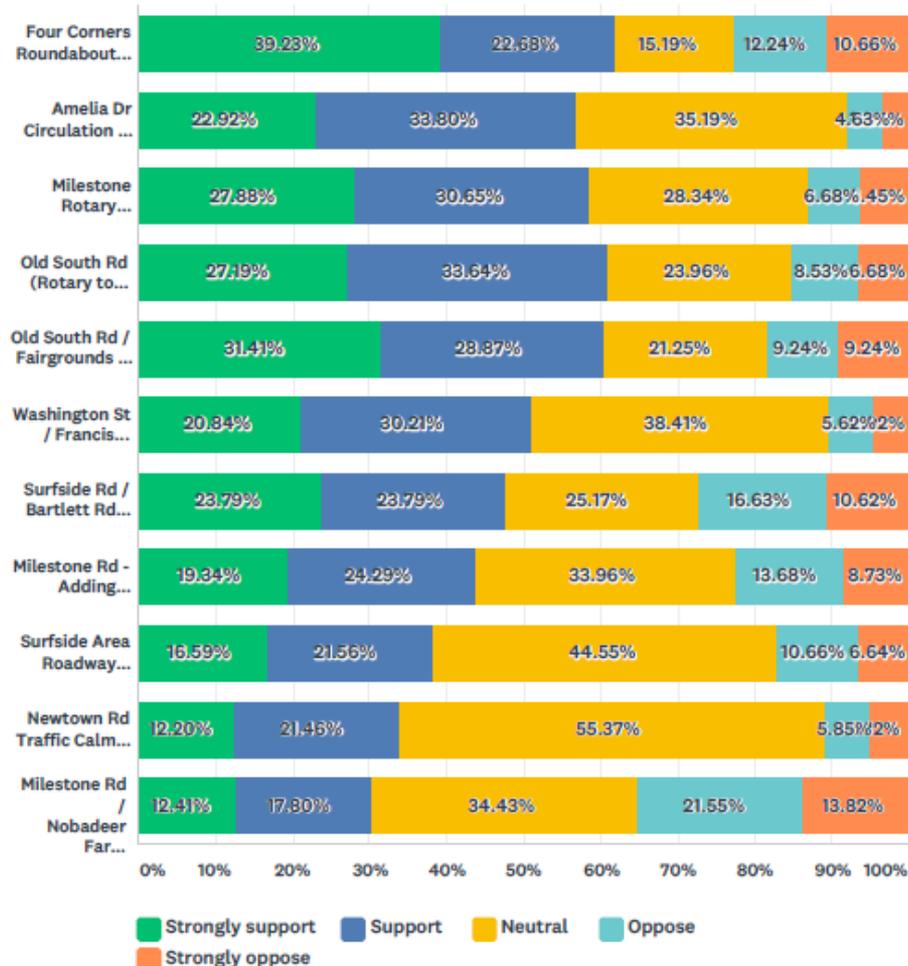
Answered: 454 Skipped: 6



# Survey Responses

Q5 The following Roadway / Complete Streets projects were recommended in previous planning efforts. A Complete Streets project accommodates all users and abilities while reducing GHG (greenhouse gas) emissions and accommodating healthy transportation options. Please rate your level of support for each project listed below:

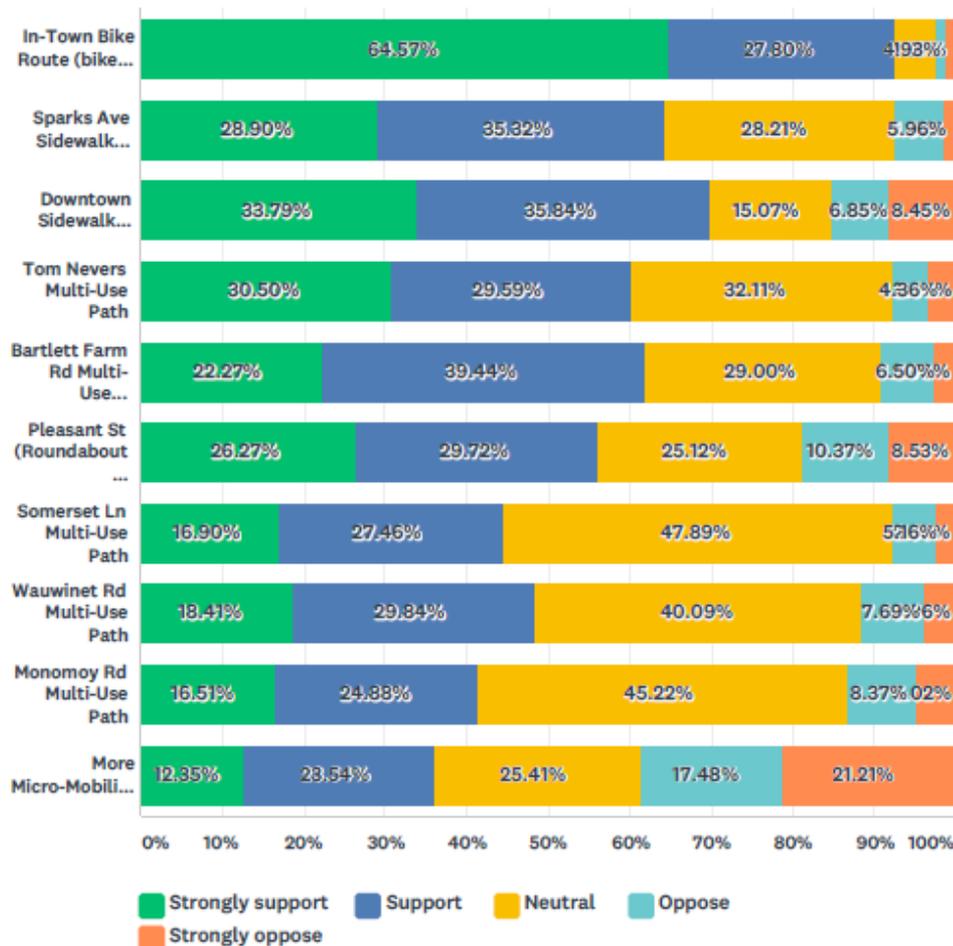
Answered: 448 Skipped: 12



# Survey Responses

Q6 The following Multi-Use Path / Complete Streets projects were recommended in previous planning efforts. A Complete Streets project accommodates all users and abilities while reducing GHG (greenhouse gas) emissions and accommodating healthy transportation options. Please rate your level of support for each project listed below:

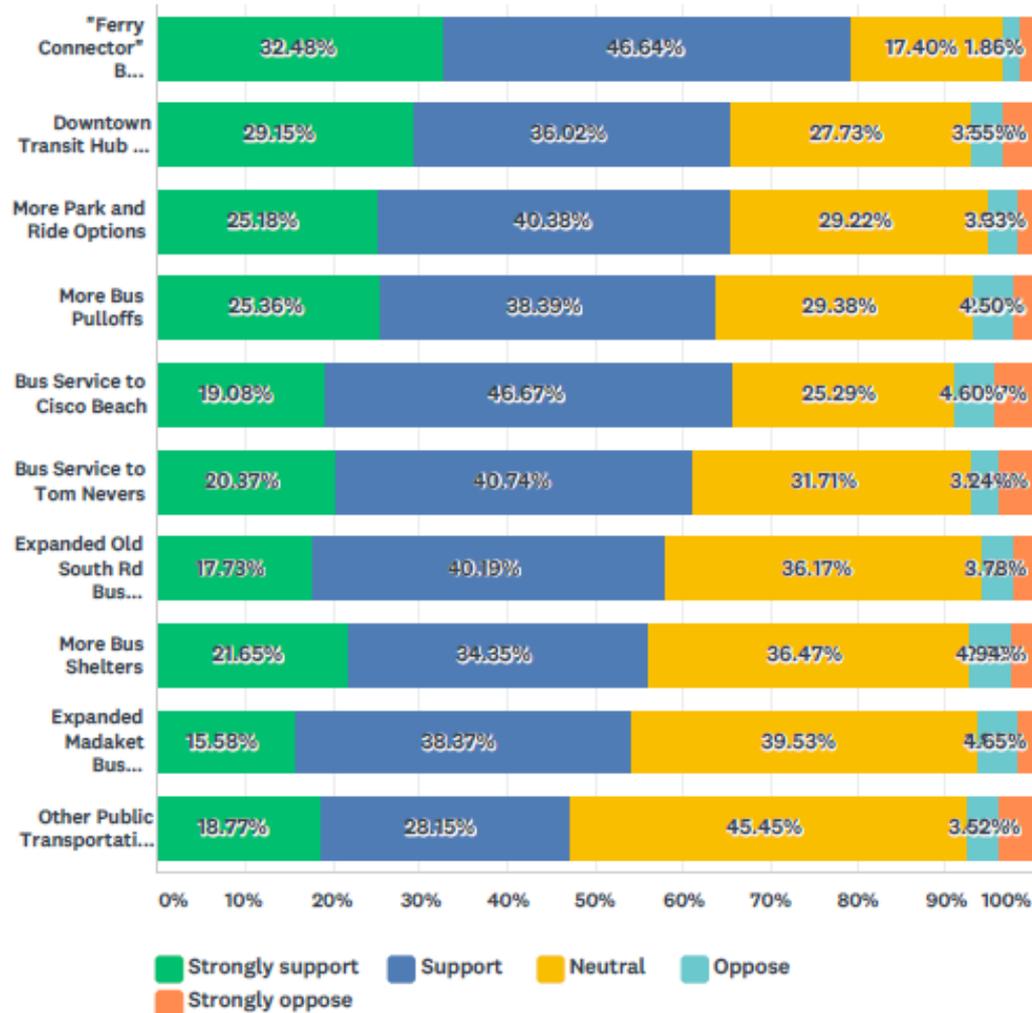
Answered: 454 Skipped: 6



# Survey Responses

Q7 The following Public Transportation improvements were recommended in previous planning efforts. Please rate your level of support for each project listed below:

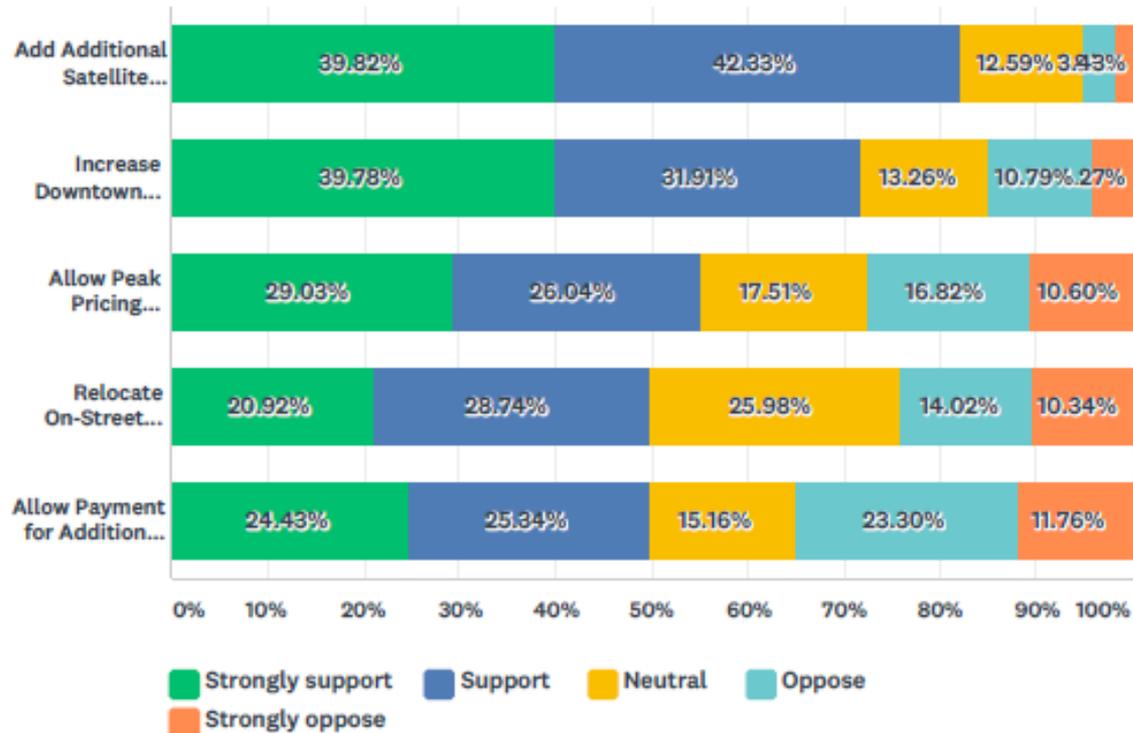
Answered: 450 Skipped: 10



# Survey Responses

Q8 The following Public Parking improvements were recommended in previous planning efforts. Please rate your level of support for each project listed below:

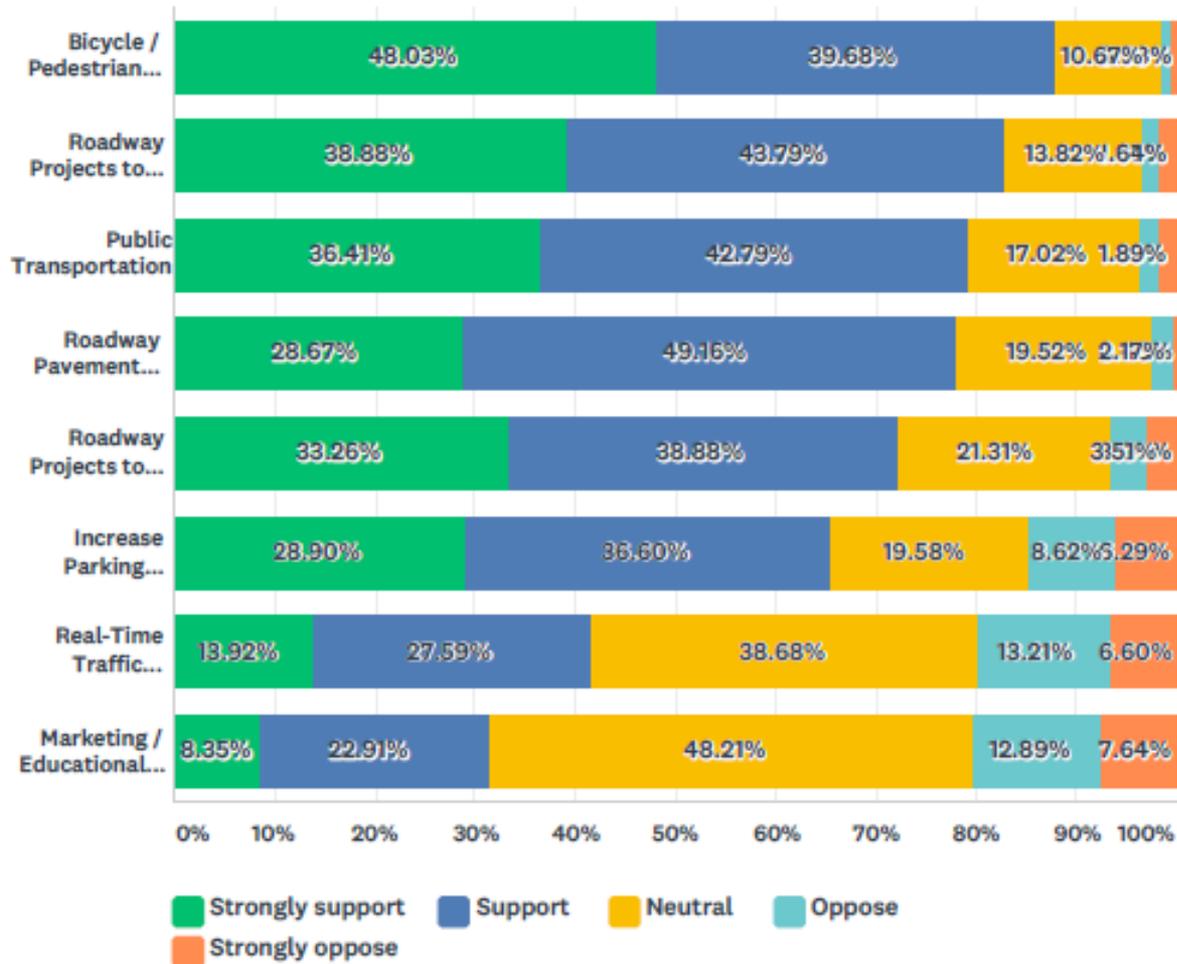
Answered: 450 Skipped: 10



# Survey Responses

Q9 A limited amount of funding is available to address the transportation problems in our community. Please indicate your level of support for the following:

Answered: 443 Skipped: 17



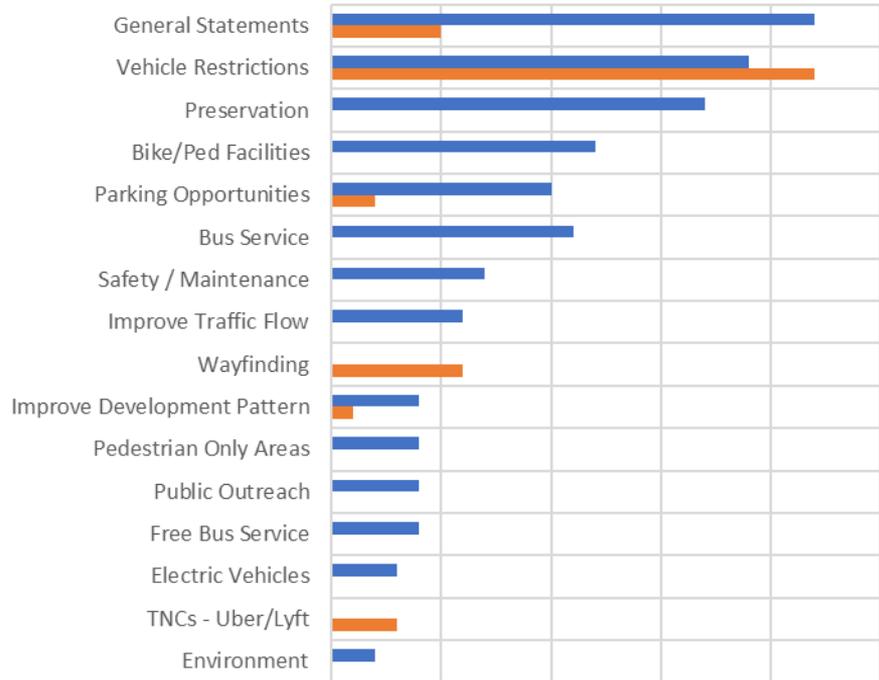
# Survey Responses

5	I'm not sure who died and made three people in charge but you are DESTROYING this island. Take your idea to Hyannis or some other obliterated place. You have made Nantucket NOT Nantucket and have absolutely no sense of history, integrity or how historic preservation is done right whether it be street, sidewalks, or what have you. I'm not sure why i bothered filling out a survey that you wont pay attention to. we have asked for NONE of this and a few people think they can do what they want. I'm not sure why people who don't know what they are doing are in power and are jamming this down our throats. You have highhandedly and single-handedly destroyed this island. thanks so much!	3/22/2019 9:52 AM
50	We need more trees/shade island-wide over all pavement/bike paths/sidewalks. Also a different mix of pavement to result in a lighter color roadway (more stones/sand in mix so roads are tan, not black- too hot!) Milestone needs to be no passing (so abused and dangerous!) and reduced speed limit outgoing to Nobadeer Farm. Make New Whale Street no parking only standing so there is a place for cars to line up for HyLine pickup and drop-off. More speed bumps in town to keep neighborhoods safe. Make High St one way towards Pine.	3/13/2019 3:25 PM
101	PLEASE do not enhance public transportation. the charm of the island is why so many of us buy homes on island. consider how to make scooters, new electric mopeds, provision for golf carts and pick up and drop off bikes and scooters and vespa type cycles	3/11/2019 1:54 PM
107	This is a good survey -- asks good questions, and make men feel heard.	3/11/2019 10:27 AM
158	Stop and shop parking lot needs to be monitored. Too many residents use it for overnight parking and way too many commercials trucks park overnight.	3/5/2019 12:31 PM
168	Great improvements made recently to sidewalks downtown. Please continue. Please remove utility poles from the sidewalks.	3/5/2019 8:59 AM

# Survey Responses

## L RTP Survey - Public Comments on Vision Statement

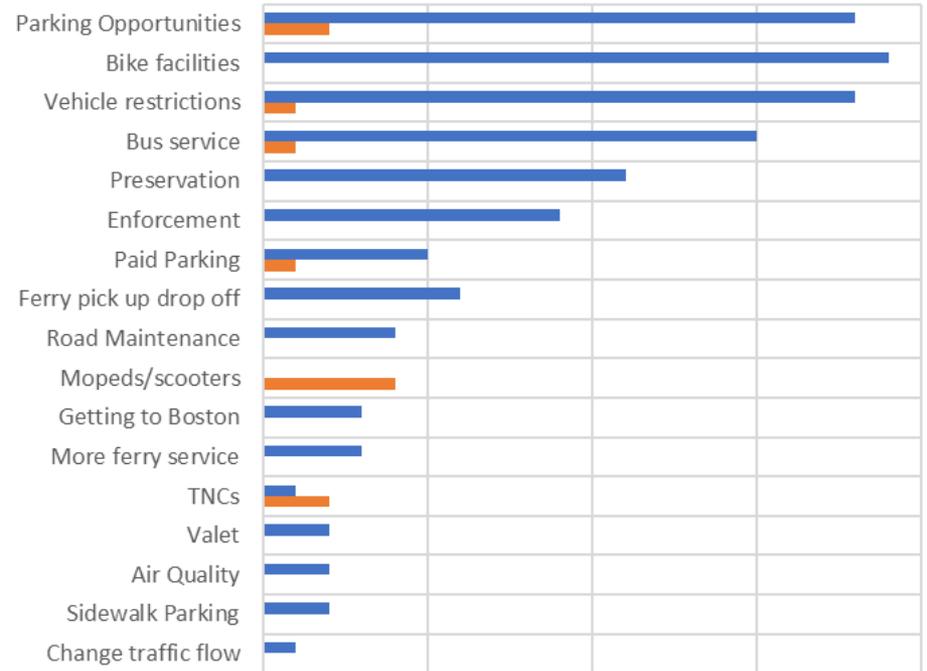
0 5 10 15 20 25



■ Positive/Strengthen ■ Negative/Clarify

## L RTP Survey - Other Public Comments

0 5 10 15 20



■ Positive/Strengthen ■ Negative/Clarify



# Vision and Goals

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## (Also see attached)

# Long Range Transportation Plan Update: Vision and Goals

**Vision:** Equitably and legally limit vehicles on Nantucket while providing a transportation system that is safe, accessible for all users, economical, and sensitive to the character of the Island.

*Comment: this aligns with the Town's Strategic Goal #3 - reduce single occupancy vehicle usage via the following approach: 1) live, work, play within proximity, 2) financial disincentive to using the automobile, 3) providing infrastructure for active transportation modes.*

## **Mechanisms for implementing the vision:**

1. Vehicle Restrictions
2. Town and Country Pattern of Development
3. Multi-Modal Transportation Options
4. Parking Management
5. Wayfinding
6. Resiliency and Reliability
7. Transport between Nantucket and the Mainland
8. Congestion and Safety Balance
9. Environmental and Historical Sensitivity

# Transportation Goals

- 1. Vehicle Restrictions**
  - Reduce the number of motor vehicles on the island
- 2. Town and Country Pattern of Development**
  - Continue using the Town and Country overlay districts to encourage living, working, and playing within proximity.
- 3. Multi-modal Transportation Options**
  - Offer an array and interconnection of transportation modes to the traveling public.
- 4. Parking Management**
  - Create management policies and additional opportunities for parking in the downtown area.
- 5. Wayfinding**
  - Improve information for using the island's transportation system.
- 6. Resiliency and Reliability**
  - Consider how transportation programs and projects would contribute to the resiliency or reliability of the transportation system.
- 7. Transport between Nantucket and the Mainland**
  - Ensure that transportation to and from the island is safe, convenient, economical, and sensitive to the various areas of the island.
- 8. Congestion and Safety Balance**
  - Rely on traffic control methods that reduce congestion while maximizing public safety and livability.
- 9. Environmental and Historical Sensitivity**
  - Consider environmental and historical impacts of any transportation system improvement.

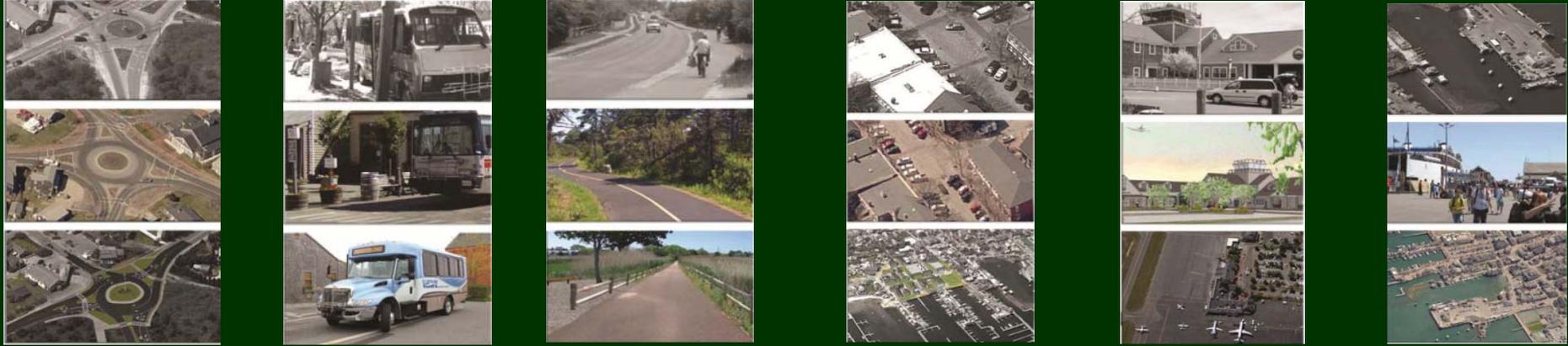
# Transportation Goals

## 3.3. VEHICLE RESTRICTIONS

### 3.3.1. Reduce the number of motor vehicles on the island

*Comment: added per NP&EDC vote on December 17, 2019*

- 3.3.1.1. Establish a definitive limit on the numbers of vehicles transported to the island.  
Measure: Provide a recommendation to the Select Board seeking funding to update the 2001 *Optimal Carrying Capacity* study
- 3.3.1.2. Regulate the number of vehicles on island by instituting a Town-administered permit.  
Measure: Provide a recommendation to the Select Board seeking funding for professional services to conduct a feasibility study for establishing a vehicle permit program.
- 3.3.1.3. Limit the volume of vehicles operating on the island's roadways.  
Measure: Provide a recommendation to the Select Board seeking funding for professional services to conduct a feasibility study for establishing a limit on the number of automobiles that could legally operate on the island's roadways.
- 3.3.1.4. Negotiate a binding agreement that guarantees year-round access to and from the mainland by water is provided to Nantucket residents.  
Measure: Provide a recommendation to the Select Board seeking a revision to the Steamship Authority reservation policy to guarantee year-round access for Nantucket residents.



# Project Evaluation

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# Project Scoring

Criteria	Factor	Measure
<b>Condition:</b>	Magnitude of Pavement Improvement	Extent of Pavement Improvement
	Magnitude of Other Infrastructure Improvements	Improvements to Municipal Utilities, Drainage, Sidewalks, Traffic Control Devices
<b>Mobility:</b>	Capacity	Improvement in Volume to Capacity (V/C) Ratio
		Improvement in Intersection Level of Service
	Travel Time, Connectivity, and Access	Improvement in travel time, connectivity, and/or access?
	Intermodal	Will project improve bike and pedestrian accessibility?
	Regional and Local Traffic	Improvement to Collector Street System
<b>Safety:</b>	Crash Rate	Improvement to Documented Safety Problem
	Bicycle and Pedestrian Safety	Improvement to Bicycle and Pedestrian Infrastructure
<b>Sustainability:</b>	Residential Effects	Extent of Right-of-Way Acquisition
		Extent of Noise Impacts
		Extent of Decreased Cut-Through Traffic
	Environmental Justice Effects	Located Near Affordable Housing
	Public Support	Listed in an NP&EDC Study or Plan
		Aligns with Town Strategic Goal
	Development/ Redevelopment of Housing Stock	Located Near Housing Development or Redevelopment?
	Business Effects	Extent of Access Improvement
		Reduction in Parking Need
		Extent of Improved Freight / Delivery Access
Environmental Effects	Extent of Air Quality and Climate Improvement	
	Affect on Water Quality	
	Affect on Wetlands	
	Affect on Priority Habitats of Endangered Species	
	Historical and Cultural Effects	Affect on Historic and Cultural Resources

# Recommended Capital Improvements

Priority	Project	Type	Design	Construction	Status	Planning Score Total	Survey Score	Funded
15	OSR Path/Pulloffs btw Rotary/Amelia	Complete Street	\$54,080	\$233,972	F	15	3.7	N
16	OSR Path/Pulloffs btw Amelia/NFR	Complete Street	\$245,156	\$1,019,847	F	14	3.7	N
5	In-Town P2 (Orange)	Bike Lanes	\$418,000	\$2,090,000	E	13	4.5	Y
6	Four Corners	Intersection	\$280,200	\$3,500,000	E	13	3.7	Y
7	Fairgrounds @ OSR	Intersection	\$150,000	\$2,000,000	E	13	3.6	Y
17	In-Town P3 (Washington)	Bike Lanes	\$400,000	\$2,000,000	F	13		N
19	Milestone Rotary	Intersection	\$676,000	\$2,924,646	F	12	3.7	N
8	Sparks Ave Path	Path	\$230,000	\$850,000	E	11	3.8	Y
18	OSR at Amelia - 3 - Mini Circle	Intersection	\$54,080	\$233,972	F	11	3.7	N
20	Surfside Fairgrounds S Shore	Intersection	\$150,000	\$2,000,000	F	11		N
9	Tom Nevers	Path	\$331,487	\$2,210,852	E	10	3.8	Y
21	Bartlett Farm	Path	\$100,000	\$654,000	F	10	3.7	N
22	Somerset Ln	Path	\$111,000	\$739,000	F	10	3.5	N
2	Surfside @ Bartlett	Intersection	\$216,000	\$3,562,685	C	10	3.3	Y
25	Newtown Road Path/Traffic Calming	Complete Street	\$144,746	\$964,970	F	9	3.3	N
1	Mill Hill Path	Path	\$15,000	\$212,170	B	9		Y
23	Milestone @ Polpis - Roundabout	Intersection	\$691,181	\$2,764,722	F	9		N
24	Hummock Pond to Vesper	Path	\$100,000	\$500,000	F	9		N
12	Pleasant Streetscape	Complete Street	\$197,000	\$985,000	E	8	3.6	Y
10	Wauwinet	Path	\$354,000	\$2,361,000	E	8	3.5	Y
11	Surfside School Crossing	SRTS	\$200,000	\$800,000	E	8		Y
13	Pleasant @ Williams	Complete Street	\$99,000	\$495,000	E	8		Y
26	Bear	Path	\$80,000	\$400,000	F	8		N
27	Quidnet	Path	\$189,000	\$1,715,000	F	8		N
28	Milestone at NFR - Roundabout	Intersection	\$569,394	\$2,277,574	F	7	2.9	N
29	Milestone Shoulder Reconstruction P1	Roadway	\$1,469,781	\$6,358,861	F	6	3.3	N
14	Winn St	Complete Street	\$250,000	\$1,250,000	E	6		Y
30	Monomoy Rd	Path	\$140,000	\$700,000	F	5	3.4	N
3	Washington @ Francis	Intersection	\$50,000	\$350,000	D	5	3.3	Y
4	Lovers Okorwaw Monohansett	Complete Street	\$828,822	\$6,000,000	D	5	3.3	Y
31	Eel Point Path Ext	Path	\$325,400	\$1,627,000	F	5		N
32	Friendship Lane	Complete Street	\$84,000	\$420,000	F	5		N
33	Industry & Shadbush Rds	Complete Street	\$126,000	\$630,000	F	5		N

# Recommended Capital Improvements

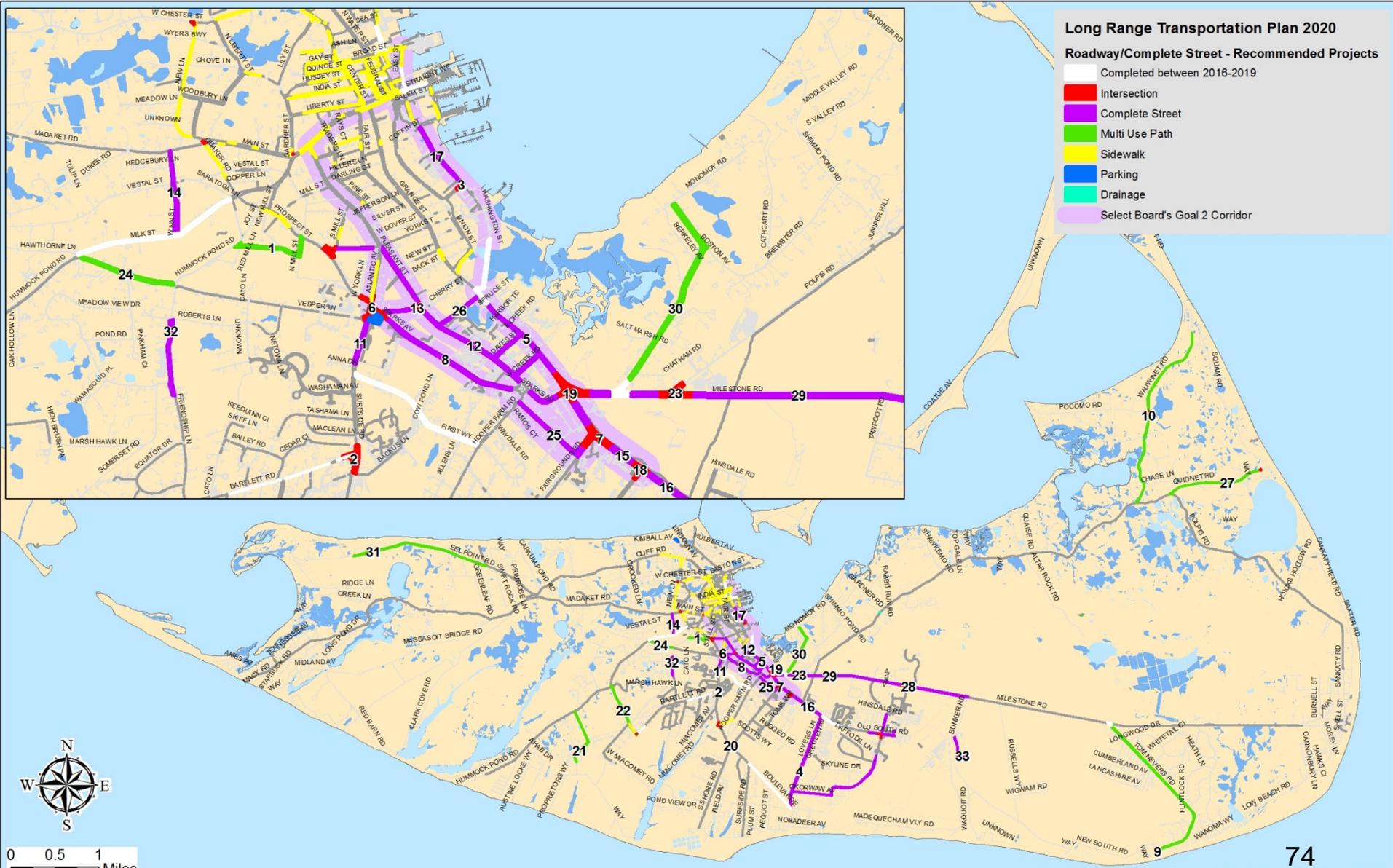
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9	Tom Nevers	Path	\$331,487	\$2,210,852	E	10	3.8	Y
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11	Surfside School Crossing	SRTS	\$200,000	\$800,000	E	8		Y
13	Pleasant @ Williams	Complete Street	\$99,000	\$495,000	E	8		Y
14	Winn St	Complete Street	\$250,000	\$1,250,000	E	6		Y
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26	Bear	Path	\$80,000	\$400,000	F	8		N
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31	Eel Point Path Ext	Path	\$325,400	\$1,627,000	F	5		N
32	Friendship Lane	Complete Street	\$84,000	\$420,000	F	5		N
33	Industry & Shadbush Rds	Complete Street	\$126,000	\$630,000	F	5		N

# Recommended Capital Improvements

## Long Range Transportation Plan 2020

### Roadway/Complete Street - Recommended Projects

- █ Completed between 2016-2019
- █ Intersection
- █ Complete Street
- █ Multi Use Path
- █ Sidewalk
- █ Parking
- █ Drainage
- █ Select Board's Goal 2 Corridor



# Recommended Capital Improvemets

## TIP Eligible Project Schedule

Project	Total Construction Estimate	Split of Target	2020-2024	2025-2029	2030-2034	2035-2040
Intersection	\$19,613,599	1/3	\$793,406	\$991,443	\$1,122,637	\$1,209,399
Complete Streets	\$11,998,789	1/3	\$793,406	\$991,443	\$1,122,637	\$1,209,399
Bicycle and Pedestrian	\$16,859,022	1/3	\$793,406	\$991,443	\$1,122,637	\$1,209,399
<b>Total Programmed</b>			<b>\$2,380,218</b>	<b>\$2,974,330</b>	<b>\$3,367,912</b>	<b>\$3,628,198</b>
<b>Anticipated Federal Target</b>			<b>\$2,380,218</b>	<b>\$2,974,330</b>	<b>\$3,367,912</b>	<b>\$3,628,198</b>

# Recommended Capital Projects

## Intersections

<b>Project</b>	<b>Type</b>	<b>Design</b>	<b>Construction</b>	<b>Status</b>	<b>Planning Score Total</b>	<b>Survey Score</b>
Four Corners	Intersection	\$280,200	\$3,500,000	E	13	3.7
Fairgrounds Rd @ Old South Rd	Intersection	\$150,000	\$2,000,000	E	13	3.6
Milestone Rotary	Intersection	\$676,000	\$2,924,646	F	12	3.7
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Surfside Rd Fairgrounds Rd S Shore Rd	Intersection	\$150,000	\$2,000,000	F	11	
Surfside Rd @ Bartlett Rd	Intersection	\$216,000	\$3,562,685	C	10	3.3
Milestone Rd @ Polpis Rd - Roundabout	Intersection	\$691,181	\$2,764,722	F	9	
Milestone Rd at Nobadeer Farm Rd – Roundabout	Intersection	\$569,394	\$2,277,574	F	7	2.9
Washington St @ Francis St	Intersection	\$50,000	\$350,000	D	5	3.3

# Recommended Capital Projects

## Complete Streets

Project	Type	Design	Construction	Status	Planning Score Total	Survey Score
Old South Rd Path/Pulloffs btw Rotary/Amelia	Complete Street	\$54,080	\$233,972	F	15	3.7
Old South Rd Path/Pulloffs btw Amelia/NFR	Complete Street	\$245,156	\$1,019,847	F	14	3.7
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Lovers Okorwaw Monohansett Surface/Path	Complete Street	\$828,822	\$6,000,000	D	5	3.3
Friendship Lane Surface/Path	Complete Street	\$84,000	\$420,000	F	5	
Industry & Shadbush Rds Surface/Path	Complete Street	\$126,000	\$630,000	F	5	

# Recommended Capital Projects

## Multi-Use Paths and Bike Lanes

<b>Project</b>	<b>Type</b>	<b>Design</b>	<b>Construction</b>	<b>Status</b>	<b>Planning Score Total</b>	<b>Survey Score</b>
In-Town Ph 2 (Orange St)	Bike Lanes	\$418,000	\$2,090,000	E	13	4.5
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Eel Point Path Ext Path	Path	\$325,400	\$1,627,000	F	5	

# Recommended Transportation Studies

- **Island-wide Travel Demand Forecast Model**

The Town is seeking a Nantucket-specific model to be used island-wide to analyze the impact of plans, land use change, and development projects on the island's transportation system, and develop a multimodal transportation strategy for the Town

- **Optimal Carrying Capacity Study Update**

As described in the Goals and Objectives for Vehicle Restrictions (section 3.3), a study to update the 2001 *Optimal Carrying Capacity* study is recommended to reevaluate the definitive number of vehicles transported to the island to establish a number of vehicles that can be permitted to operate on island roadways.

- **Downtown Circulation and Ferry Access Improvement Study Update**

The original study for this area was completed in 2008 and included a number of recommendations for improving traffic flow, wayfinding, parking, and public transportation. The changing demands and needs in the downtown area, along with anticipated increase in ferry user activity with additional future high speed ferry trips, warrant an update in the traffic data

- **Mid Island Traffic Study Update**

The traffic study that was previously conducted in 2005 for the mid-island area is due to be updated. Following the implementation of a number of traffic improvements recommended in the 2005 study, such as the Sparks Avenue Roundabout and streetscape improvements along Pleasant Street, and development and redevelopment of a number of properties in the mid-island area, an updated evaluation and strategy for the area is warranted.

# Long Range Transportation Plan Update: Development Process

<p><b>November 2018 to February 2019</b></p>	<ul style="list-style-type: none"> <li>- Update Community Profile</li> <li>- Solicit input on vision, goals, and objectives with public and transportation stakeholders</li> <li>- Supplement input with existing parking, open space and Master Plan survey results</li> </ul>
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