

## Background Information:

- ➔ Station Avenue Corridor Study, 2023 provides access to and from Route 6 on the northern end of the corridor and access to Dennis-Yarmouth Regional High School to the south. The purpose of the Study is to develop alternatives that will improve safety, provide accommodations for all roadway users, and reduce congestion.

## Crash Stats (2018-2023)



**2,809**

**total crashes**

**38** pedestrian crashes

**51** bicyclist crashes

**47** motorcyclist crashes



**8**

**fatal crashes**

**4** pedestrian crashes

**1** motorcyclist crash



**56**

**serious injuries**

**12** pedestrian crashes

**6** bicyclist crashes

**10** motorcyclist crashes

## Fatal/Serious Injuries

38% occurred during dark lighting conditions (lighted roadway/not lighted/unknown)

44% occurred under the jurisdiction of MassDOT

39% occurred along Minor Arterial Roadways and 47% occurred along Principal Arterial – Other Roadways.

53% of the crashes are single-vehicle crashes, 17% of the crashes were angle, and 9% of the crashes were head on

28% of the crashes contributing factors were either reckless/speeding/distracted/impaired

16 crashes were collision with pedestrian, 12 crashes were collision with tree/unknown fixed object/utility pole, 6 crashes were collision with cyclists

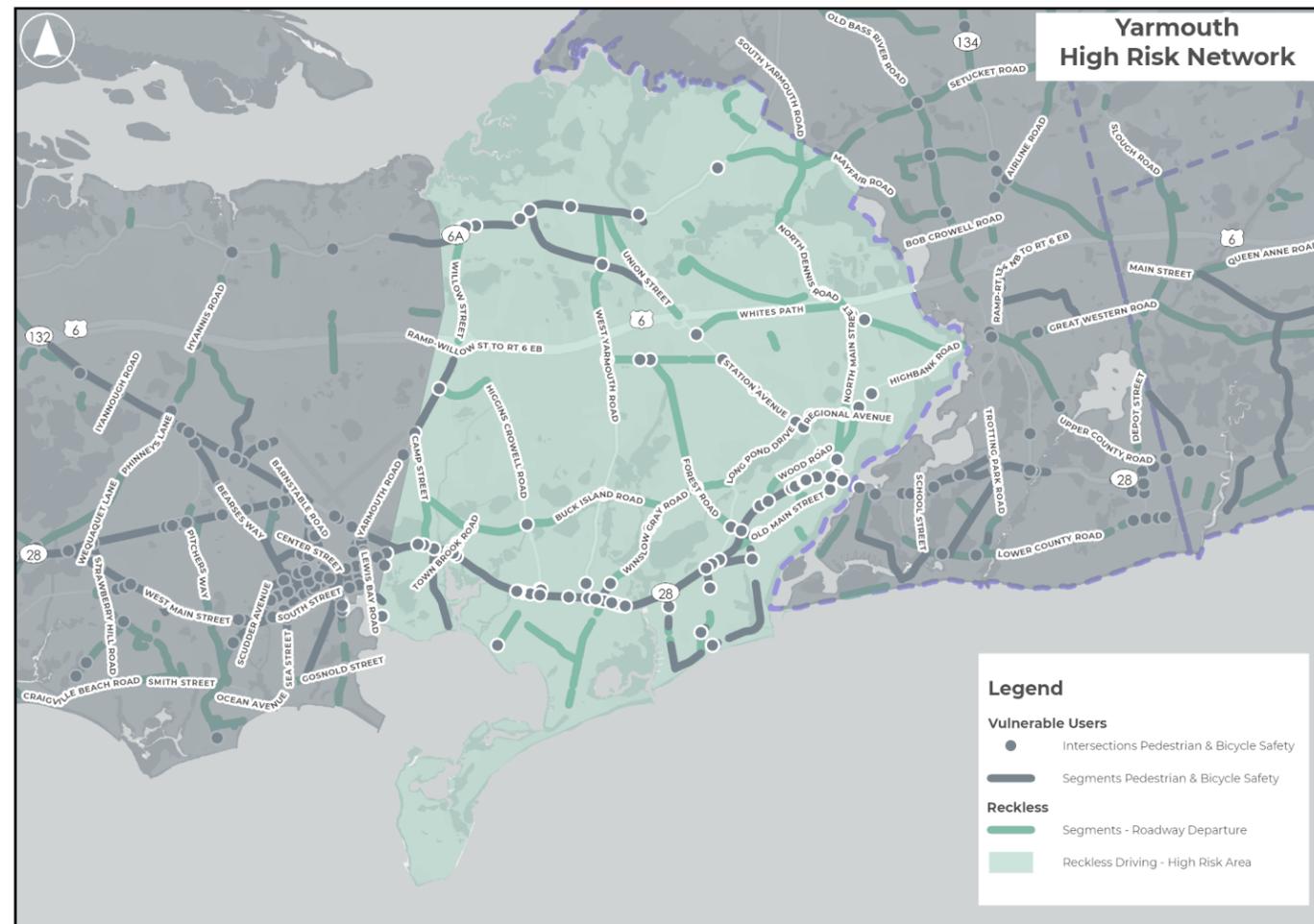
## Public Comments

- ➔ Install sidewalk facilities on both sides along Route 6A to support the land use characteristics and Union Street.
- ➔ Speeding along Buck Island Road is a major issue and the signalized intersection at Buck Island Road at Higgins Crowell Road is a concern. Consideration for widening Buck Island Road.
- ➔ Consideration for an at-grade rail crossing for the Cape Cod Rail Trail along Station Avenue to access the businesses.
- ➔ Intersection improvement Old Town House Road at Forest Road (signalized), Station Avenue, south of Whites Path/Domino's, Forest Road at Winslow Gray Road (signalized), Bridge Street (Route 28) at Main Street (signalized), Main Street (Route 28) at Yarmouth Road (one-way STOP) – difficulty to turn SBL, Station Avenue at Long Pond Road (one-way STOP) – difficulty to make NBL, Forest Road at Long Pond Drive (signalized), Main Street at Union Street/Old Church Street (TWSC), Union Street at White Rock Road (TWSC), Main Street (Route 28) at Camp Street (one-way STOP) – difficulty to turn SBL, Main Street at Setucket Road (one-way STOP).
- ➔ Install midblock crossings along Old Town House Road by Phyllis Drive, west of Station Avenue.
- ➔ Improve Station Avenue by slowing traffic, improve sidewalk facilities and sight distance issues, continue shared use path.
- ➔ Improve Route 28 (Main Street) with protected bicycle lanes, including safe crossings and multimodal accommodations.
- ➔ Along Route 6, lots of crash/near crashes for on/off ramps by Station Avenue.
- ➔ Enhance safety for the Cape Cod Rail Trail crossing by Main Street/ N Dennis Road.
- ➔ Improve Willow Street with designated bicycle facilities.
- ➔ Enforce motorists to provide at least four feet of space when passing vulnerable road users.
- ➔ Enhance bus stops with shelters and amenities.
- ➔ Dangerous curve along Route 6A/ Main Street near Mill Lane.

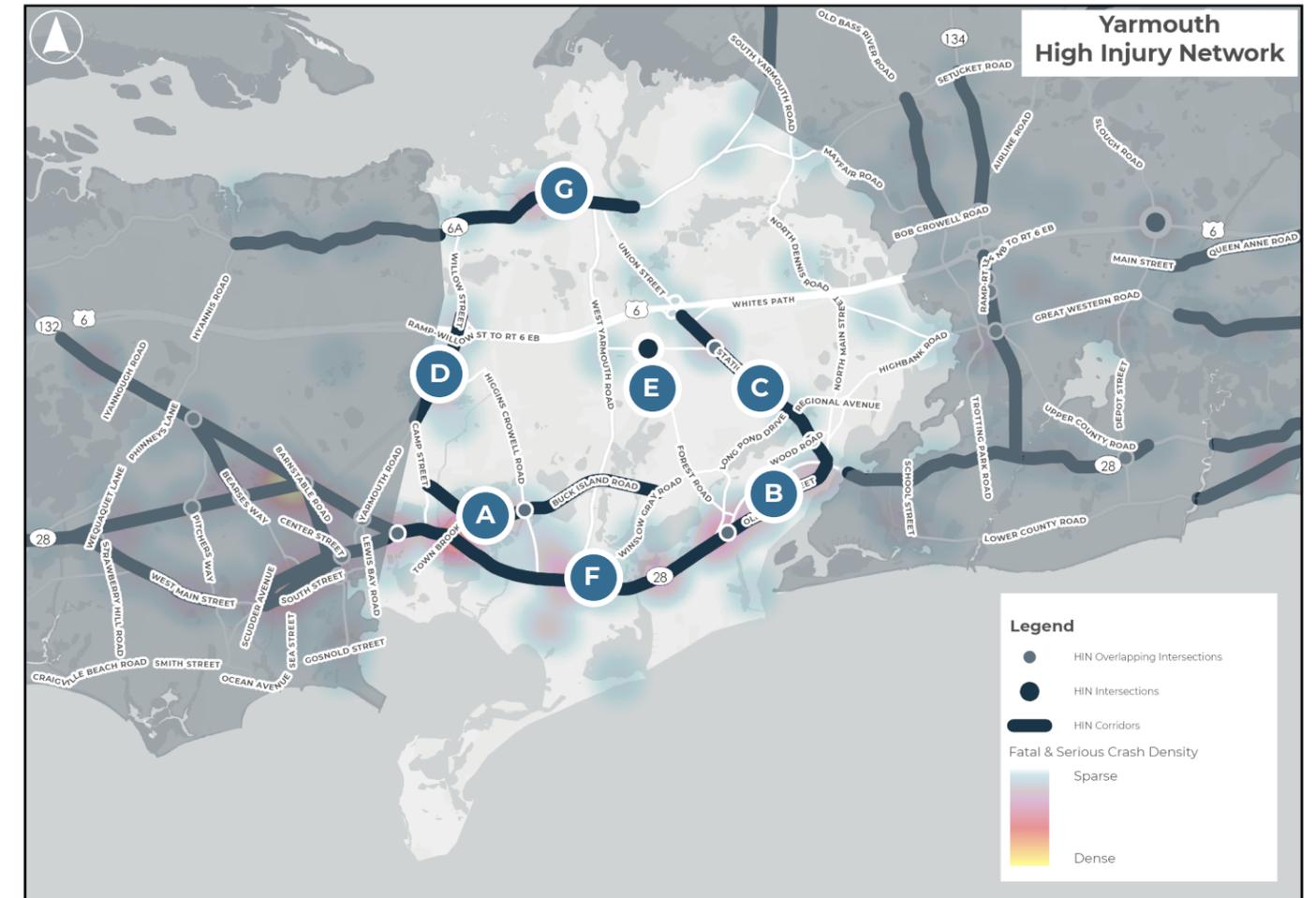
## High Risk Corridors

Bayview Street	Route 28
Bray Farm Road North/South	Route 6A
Buck Island Road	Seaview Avenue
Camp Street	Setucket Road
Forest Road	South Shore Drive
Great Western Road	South Street
Highbank Road	Station Avenue
Lewis Road	Union Street
North Dennis Road	West Yarmouth Road
North Main Street	Willow Street
Old Town House Road	Winslow Gray Road
Pine Grove Road	

## High Risk Network



## High Injury Network



**A**

Buck Island Road from Camp Street to Winslow Gray Road

**E**

Old Town House Road at Forest Road

**B**

Old Main Street from Route 28 to Route 28

**F**

Main Street (Route 28) from Barnstable Town Line to Old Main Street

**C**

Station Avenue from North Main Street to Route 6 Ramps

**G**

Main Street (Route 6A) from Willow Street to Weir Road

**D**

Willow Street from Barnstable Town Line to Route 6 Ramps

HIN – Corridor/ Intersection	Jurisdiction	Length (miles)	Characteristics	Contributing Factors	Studied/ Previous Planning	Potential Countermeasures
<b>A</b> Buck Island Road from Camp Street to Winslow Gray Road	Local	2.52	<ul style="list-style-type: none"> <li>2-lane undivided roadway</li> <li>Posted Speed Limit: 35/45 mph</li> <li>Includes white edge line</li> <li>Sidewalk on one side</li> <li>117 crashes (1 fatal, 4 serious injuries, 1 bicyclist, 2 pedestrians)</li> </ul>	Disregarded traffic signs, signals, road markings/ Distracted/ Failed to yield right of way/ Driving too fast for conditions/ Followed too closely/ Inattention/ Failure to keep in proper lane or running off road/ Operating vehicle in erratic, reckless, careless, negligent or aggressive manner	HSIP Cluster – Buck Island Road at Higgins Crowell Road  Installing a midblock crosswalk with a RRFB by Sandy Pond Road/ residential development and sidewalk facilities on the south side	<b>Short-Term</b> <ul style="list-style-type: none"> <li>Install RRFBs with crosswalks, such as near Town Brook Road and Winslow Gray Road and include advanced warnings</li> <li>Install solar radar speed feedback signs</li> <li>Update traffic signals; backplates with retroreflective borders, signal timing changes, modern pedestrian signal equipment Buck Island Road at Higgins Crowell Road, Buck Island Road at Yarmouth Road</li> <li>Evaluate travel lane assignments at Higgins Crowell signal</li> <li>Evaluate passing zones and ensure they meet the latest standards</li> </ul>
						<b>Long-Term</b> <ul style="list-style-type: none"> <li>Install streetscape elements (landscape buffer zone)</li> </ul>
<b>B</b> Old Main Street from Route 28 to Route 28	Local / MassDOT (Route 28)	1.25	<ul style="list-style-type: none"> <li>2-lane undivided roadway</li> <li>Posted speed limit: 30 mph</li> <li>Limited sidewalk facilities</li> <li>72 crashes (2 fatal, 3 serious injuries, 2 bicyclists)</li> </ul>	Distracted/ Driving too fast for conditions/ Exceeded authorized speed limit/ Failed to yield right of way/ Failure to keep in proper lane or running off road/ Followed too closely/ Inattention/ Operating vehicle in erratic, reckless, careless, negligent or aggressive manner	HSIP Cluster – Old Main Street at Route 28	<b>Short-Term</b> <ul style="list-style-type: none"> <li>Install solar radar speed feedback signs</li> <li>Intersection improvements Old Main Street at Forest Road</li> <li>Install RRFBs with crosswalks, such as near Wood Road/River Street and include advanced warnings</li> <li>Corridor improvements on Route 28 from Parker River Bridge to Old Main Street/ North Main Street/Route 28 TIP 613706 FY 2024</li> <li>Install centerline recessed pavement markers</li> </ul>
						<b>Long-Term</b> <ul style="list-style-type: none"> <li>Reconstruct sidewalk facilities</li> <li>Install a continuous designated space for pedestrians/bicyclists and include midblock crosswalk markings</li> <li>Restrict/prohibit commercial trucks along corridor</li> </ul>
<b>C</b> Station Avenue from North Main Street to Route 6 Ramps	Local / MassDOT (Route 6)	2.09	<ul style="list-style-type: none"> <li>2-lane undivided roadway with segments of TWLTL</li> <li>Posted speed limit: 30 to 40 mph</li> <li>No sidewalk facilities</li> <li>270 crashes (3 serious injuries, 6 bicyclists, 2 pedestrians)</li> </ul>	Disregarded traffic signs, signals, road markings/ Distracted/ Failed to yield right of way/ Inattention/ Failure to keep in proper lane or running off road/ Followed too closely/ Made an improper turn/ Operating vehicle in erratic, reckless, careless, negligent or aggressive manner	Improvements to pedestrian/ bicyclist safety through traffic calming, constructing a new SUP to improve routes to school	<b>Short-Term</b> <ul style="list-style-type: none"> <li>Include short to mid-term recommendations from the Station Avenue Corridor Study, convert TWLTL into formal left turn lanes, &amp; etc.</li> <li>Include elements from the RSA Yarmouth: Union Street – Station Avenue at US Route 6 Ramps such as maintaining sight distances through trimming of vegetation, perform a speed stud to assess speeds and times of violation &amp; etc.</li> <li>Participate in the MassDOT AWSC program for Station Avenue at Long Pond Drive</li> <li>Convert control type to AWSC Station Avenue at Wood Road</li> <li>Incorporate RSA recommendations for Station Avenue at White's Path (2023)</li> </ul>
						<b>Long-Term</b> <ul style="list-style-type: none"> <li>Traffic signal upgrades Route 6 Ramps at Union Street/Station Avenue, TIP 607394</li> <li>Include long-term recommendations from the Station Avenue Corridor Study, install an at-grade crossing with a pedestrian hybrid beacon, install sidewalk facilities/shared-use path, and install a traffic signal or roundabout at the Route 6 eastbound and westbound ramps</li> <li>Consider long term improvements for school access and operations</li> </ul>
<b>D</b> Willow Street from Barnstable Town Line to Route 6 Ramps	Local / MassDOT (Route 6)	1.17	<ul style="list-style-type: none"> <li>2-lane undivided roadway</li> <li>Posted speed limit: 40 mph</li> <li>No sidewalk facilities</li> <li>131 crashes (5 serious injuries)</li> </ul>	Disregarded traffic signs, signals, road markings/ Driving too fast for conditions/ Failed to yield right of way/ Failure to keep in proper lane or running off road/ Followed too closely/ Inattention	HSIP Cluster – Willow Street at Higgins Crowell Road  Cape Cod Rail Trail will be expanded to include a bridge	<b>Short-Term</b> <ul style="list-style-type: none"> <li>Install solar radar speed feedback signs</li> <li>Install perpendicular transverse rumble strips at key locations</li> <li>Conduct an RSA for intersection improvements Willow Street at Higgins Crowell Road (signalized), Willow Street at Route 6 on/off ramps (signalized)</li> <li>Incorporate RSA recommendations for Route 28 between Iyannough Road and Parkers River Bridge (2020)</li> </ul>
						<b>Long-Term</b> <ul style="list-style-type: none"> <li>Install a continuous designated space for pedestrians/bicyclists and include midblock crosswalk markings</li> </ul>
<b>E</b> Old Town House Road at Forest Road	Local		<ul style="list-style-type: none"> <li>Signalized with channelized right-turn, yield controlled</li> <li>27 crashes</li> </ul>	Failed to yield right of way/ Followed too closely/ Inattention/ Made an improper turn		<b>Short-Term</b> <ul style="list-style-type: none"> <li>Traffic signal timings</li> <li>Conduct a RSA</li> </ul>

HIN – Corridor/ Intersection	Jurisdiction	Length (miles)	Characteristics	Contributing Factors	Studied/ Previous Planning	Potential Countermeasures
<b>F</b> Main Street (Route 28) from Barnstable Town Line to Old Main Street	MassDOT	3.71	<ul style="list-style-type: none"> <li>741 crashes (3 fatal, 17 serious injuries, 25 bicyclists, 13 pedestrians)</li> </ul>	Distracted/ Inattention/ Failure to keep in proper lane or running off road/ Driving too fast for conditions/ Exceeded authorized speed limit/ Failed to yield right of way/ Failure to keep in proper lane or running off road/ Fatigued/ Followed too closely/ Glare/ Made an improper turn/ Disregarded traffic signs, signals, road markings/ Operating vehicle in erratic, reckless, careless, negligent or aggressive manner	Funding – TIP (Upgrade pedestrian facilities and signals) HSIP Clusters – Main Street at Old Colony Road, Main Street at Yarmouth Road, Main Street at Lewis Bay Road	<b>Short-Term</b>
						<ul style="list-style-type: none"> <li>Incorporate elements from the RSA Route 28 at North Main Street and Old Main Street</li> </ul>
						<b>Long-Term</b>
<ul style="list-style-type: none"> <li>Corridor improvements on Route 28 from Parker River Bridge to Old Main Street/North Main Street/Route 28 TIP 613706</li> <li>Corridor improvements on Route 28 from Barnstable Town Line to the Parkers Drive TIP 608264, sidewalk and bicycle accommodations throughout the corridor</li> </ul>						
<b>G</b> Main Street (Route 6A) from Willow Street to Weir Road	MassDOT	1.84	<ul style="list-style-type: none"> <li>2-lane undivided roadway</li> <li>170 crashes (5 serious injuries, 1 bicyclist)</li> </ul>	Disregarded traffic signs, signals, road markings/ Distracted/ Driving too fast for conditions/ Exceeded authorized speed limit/ Failed to yield right of way/ Failure to keep in proper lane or running off road/ Followed too closely/ Inattention/ Operating vehicle in erratic, reckless, careless, negligent or aggressive manner/ Visibility obscured		<b>Short-Term</b>
						<ul style="list-style-type: none"> <li>Incorporate short to mid-term elements from the RSA Route 6A – Willow Street to Union Street, replace non-compliant signs, review locations of advanced warning signs, review and add additional crosswalk locations</li> <li>Include RRFBs within the Village Center with pedestrian lighting.</li> </ul>
						<b>Long-Term</b>
<ul style="list-style-type: none"> <li>Corridor improvements on Route 6A from Gingerbread Lane to Minden Lane TIP 613933/Design</li> <li>Incorporate long-term elements from the RSA Route 6A – Willow Street to Union Street, textured pavement crosswalks, conduct a formal study of intersections to determine if increased control is warranted, Willow, Summer, and Union.</li> <li>Intersection improvements Main Street at Weir Road.</li> </ul>						