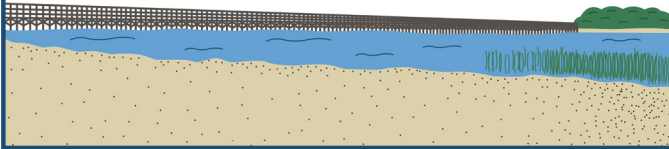


Transportation and Connectivity

DRAFT: TO BE REFINED WITH YOUR HELP!

DRAFT FOR DISCUSSION 12-18-18

Envision Duxbury



Envision Duxbury is a comprehensive master plan being developed by the Town of Duxbury to guide the future growth and economic development of the town, using goals and ideas generated by community members.

Duxbury's transportation network includes historic two-lane roadways and local streets, modern multi-lane highways, off-road paths and trails, a piecemeal sidewalk system, as well as limited transit services and ride sharing options. The Town's transportation network has not changed much since the completion of the 1999 Duxbury Master Plan. Vehicular traffic has increased along some roadways, as have the number of crashes. Most workers in Duxbury commute locally or in nearby Plymouth, with Boston also a top destination for commuters.

In the 2017 Master Plan Community Survey, residents identified pedestrian and bicycle connections as one of the biggest challenges. In Duxbury, few sidewalks or other pedestrian/bicycle facilities exist to help meet this challenge and connect major destinations.

A successful transportation network accommodates the efficient and safe movement of people and goods, and provides multiple travel options to access destinations. Transportation affects land uses and development, the environment – including air quality, noise, and water quality – and the health and safety of all users, irrespective of travel mode. As such, a well-designed and functional transportation network can have positive impacts on economic development and the quality of life for the community.

Recommendations

The following goals and strategies are intended to support continuing efforts to improve the Town's transportation network, particularly in the efforts to create a safer and more inclusive system for the growing number of seniors in the Town and people who do not drive.

Goal 1: Create a town-wide multimodal network connecting key nodes.

- Continue to expand off-road walking trails, with an aim for this “network” to connect key “nodes” such as schools, businesses, and neighborhoods
- Evaluate roadway and streets for pedestrian and bicycle improvements, such as wide shoulders and shared-use paths, and develop specific projects to create the network, including pilot projects to test new ideas (see Goal 5)
- Partner with MassDOT and MAPC to plan the completion of Duxbury portions of regional trails such as LandLine and Bay Circuit trails
- Plan a bicycle network connecting key destinations such as schools and commercial centers (includes bicycle facilities on or parallel to roads and off-road trails)
- Evaluate bicycle share options, in coordination with adjacent communities to allow cyclists to ride between communities, particularly during summer tourism periods
- Plan for “micro-mobility” battery powered non-motorized options such as Segways, scooters, and e-bicycles, and how the Town's transportation infrastructure should accommodate them
- Plan for Uber, Lyft, and autonomous vehicle with pick-up/drop-off areas at key destinations

Goal 2: Create walkable economic centers.

- Design safe pedestrian and bicycle connections in key commercial areas including Snug Harbor and Railroad Avenue, similar to recent designs conducted for Hall's Corner
- Conduct parking studies in commercial areas to determine parking needs, including ways to ensure parking turnover for commercial establishments,

- and ensure safe pedestrian connections through parking lots
- Create placemaking pedestrian and bicycle infrastructure and (where needed) transit infrastructure in commercial nodes, such as bicycle racks, wayfinding, seating, and dedicated pick-up/drop-off areas

Goal 3: Expand transit options and transit supportive infrastructure.

- Evaluate ridership and on time performance of the GATRA route serving Duxbury to determine whether to keep the route along Washington Street or return the routing to Route 3A, or other changes to improve transit access
- Implement infrastructure to support transit use such as seating at bus stops, and signage with bus schedules
- Include access to bus stops in pedestrian project prioritization
- Long-term, evaluate with GATRA the feasibility of a single bus route connection from Duxbury to the Kingston commuter rail
- Evaluate senior transportation services in nearby towns of Plymouth, Kingston and Marshfield to determine if a coordinated dispatch would create a more efficient and effective service
- Explore model of Plymouth partnership for subsidized Uber and Lyft rides to help fill the gaps in GATRA services can be expanded into Duxbury

Goal 4: Develop traffic safety prioritization plan.

- Study high crash locations to develop a safety prioritization plan that includes vehicular traffic calming measures to reduce speeds
- Coordinate the traffic safety prioritization plan with pedestrian and bicycle priorities
- Monitor autonomous vehicle adoption, specifically in the south shore, including what infrastructure might be needed to promote safety

Goal 5: Include climate resiliency in developing changes to transportation infrastructure.

- Ensure that new transportation infrastructure is able to accommodate climate change impacts such as rising sea levels and stronger storms

Goal 6: Move into implementation of previous studies and recommendations.

- Create Complete Streets policy and prioritization plan that reflects and maintains the rural and small town character
- Continue “safe routes to schools” efforts to identify and improve priority corridors and actions that will support safe cycling and walking for children
- Create a single town transportation committee, with sub committees to concentrate on off-road trails, sidewalks, traffic safety, and bicycle needs to ensure coordinated prioritization and implementation
- When feasible, conduct temporary infrastructure pilot projects with movable bollards and temporary paint to evaluate the effectiveness of recommended projects

Questions for Stakeholders

1. What is your initial reaction to this material?
2. Given what you know about major goals, challenges, or opportunities in the Town, does anything appear to be missing or seem incomplete?
3. Are there goals or strategies that are difficult to understand or that need to be clarified?
4. Does this material raise any additional questions for you?
5. From your perspective, what is the highest priority among the goals and strategies?
6. What do you think your role, or the role of the group you represent, could be in implementing these goals and strategies?
7. Is there someone else who we should talk to in Duxbury who is knowledgeable of this topic?
8. What action items do you see as critical to achieving these goals and strategies?
9. Do you know of other resources that could be used to address these goals and strategies?
10. How do you see this element relating to other elements of the Master Plan?
11. Do you have any other comments?