

Norton

Complete Streets Needs Assessment & Prioritization Plan

June, 2018



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Introduction

This Complete Streets Needs Assessment for the town of Norton was completed using a technical assistance grant from the MassDOT Complete Streets Funding Program. It provided the town with the opportunity to have SRPEDD assess their bicycle, pedestrian, and transit facilities and to ultimately help them put together a list of projects that will improve those networks.

What are “Complete Streets”

Complete Streets are roadways or streets that safely and comfortably accommodate all users, regardless of age and ability or mode of transportation (see Figure 1). Users include, but are not limited to: motorists, bicyclists, pedestrians, public transportation riders and providers, emergency response vehicles, freight operators, and school buses. The needs of each of these users are unique and the way they use the transportation network is different; therefore, a number of design features need to be considered to accommodate all users.

Complete Streets components can include roadway design features such as ADA compliant sidewalks and crossings, curb extensions, bicycle lanes, shared use pavement markings, bus shelters and pull-outs, wayfinding signage, landscaping, street lighting, and many other items. Not all streets need to include every Complete Streets element, rather, each street should contain the appropriate level of “completeness” depending on its context and function.



Figure 1: Example of “Complete Streets” elements (Streetmix.net)

MassDOT Complete Streets Funding Program

The MassDOT Complete Streets Funding Program was launched in February 2016 to provide technical assistance and construction funding to communities that demonstrate a commitment to include Complete Streets in policy and in practice. In short, a community may be eligible for up to \$400,000 in construction funding to implement Complete Streets elements in municipal projects. The optional technical assistance funding component allowed SRPEDD to assist Norton in evaluating the conditions of their bicycle, pedestrian, public transportation network; to identify problem areas; and, to develop a comprehensive improvement plan (a.k.a. "Prioritization Plan"). The MassDOT approved Prioritization Plan allows Norton to then apply for the \$400,000 in construction funding.

Norton's Complete Streets Policy

Norton adopted its Complete Streets Policy in October 2017. The policy clearly states the purpose to be:

"The purpose of the Town of Norton's Complete Streets Policy is to accommodate all road users by creating a roadway network that meets the needs of individuals utilizing a variety of transportation modes. It is the intent of the Town of Norton to formalize the plan, design, operation and maintenance of streets so that they are safe for users of all ages, all abilities and all income levels as a matter of routine. This Policy directs decision-makers to consistently plan, design, construct and maintain streets to accommodate all anticipated users including, but not limited to pedestrians, bicyclists, motorists, emergency vehicles, school buses, transit, freight and commercial vehicles." - Norton Complete Streets Policy (October 2017)

Importantly, is also states:

"The Town's Highway Superintendent, in consultation with the Department of Planning & Economic Development, the Town's elected boards and Complete Streets Working Group will use best judgment regarding the feasibility of applying Complete Streets principles for routine roadway maintenance projects." - Norton Complete Streets Policy (October 2017)

The Town of Norton's Complete Streets Working Group played an active role in developing the town's Complete Streets Prioritization Plan. More detail about the Working Group and their role in the process is included in the following sections of this report.

Goals & Objectives

The goals and objectives of this Complete Streets Needs Assessment directly supported the commitments in the town's Complete Streets Policy. The overall goal was to identify areas in town that are in need of complete streets improvements, to determine the type of improvements, and provide a strategy for implementation.

The key objectives of this Complete Streets Needs Assessment included the following:

1. Improve the safety for all users;
2. Provide connectivity for all users;
3. Increase the mobility for all users;
4. Prioritize elements in a cost effective nature;
5. Enhance the livability and sustainability of the community; and,
6. Employ context sensitivity.

Figure 2 and Figure 3 below show examples of areas in Norton that are in need of improvements to ensure safe and comfortable bicycle and pedestrian access. Those areas are included in Norton's Complete Streets Prioritization Plan in Appendix A of this report.



Figure 2: An older sidewalk on Dean Street in need of repair.



Figure 3: Thickly settled area on Reservoir Street without bicycle and pedestrian facilities.

In order to support the objectives, the following questions were considered throughout the process:

Safety

What is the vehicle crash history in the particular area?

Is there a history of crashes involving bicyclists or pedestrians?

Are there areas that have barriers to safe pedestrian crossings?

Are the roadway conditions appropriate for bicycle travel?

Are there other factors that deter non-motorized users?

Connectivity & Mobility

Do the different modes of travel connect in a safe and comfortable way?

Are there options for bicycle, pedestrian, and transit riders nearby?

Are there physical or operational barriers to connecting different modes?

Are there physical or operational challenges associated with the transit infrastructure or service?

Livability/Sustainability & Context Sensitivity

What are the adjacent land uses and are there trip generators nearby?

Is there evidence that the particular area has a history of bicycle and pedestrian activity?

Cost Effectiveness

What are the physical barriers to adding non-motorized accommodations to the roadway?

Are there land ownership issues that need to be addressed?

Are there public utilities (electric lines, water and wastewater lines, gas lines, etc.) affected?

These questions helped shape the Complete Streets Evaluation criteria which was used to score each project. Appendix B contains the Complete Streets Evaluation Criteria used for this project while Appendix C includes the results of the project scoring.

Methodology

Complete Streets Needs Assessment

The Complete Streets Needs Assessment was a comprehensive analysis of the town of Norton's current level of multi-modal accommodations. It focused on the addressing the following Complete Streets needs:

Safety: Addressing high crash locations, reducing vehicular speeds, etc.

ADA accessibility: Providing wheelchair ramps, ensuring adequate clearance widths, etc.

Pedestrian safety or mobility: Adding new/improved crosswalks, sidewalks/paths, pedestrian signals, etc.

Bicycle safety or mobility: Adding new bike lanes, wider shoulders, signal accommodation, bicycle parking, etc.

Transit operations and access: Enhancing stop amenities, consolidating bus stops, etc.

Vehicular operations: Addressing irregular intersections, improving congested areas, etc.

Freight operations: Ensuring adequate lane widths, addressing inadequate signage, etc.

Guidance Documents

This Complete Streets Needs Assessment was completed using guidance from the following documents/manuals:

- MassDOT Project Development and Design Guide
- FHWA Manual on Uniform Traffic Control Devices (MUTCD)
- AASHTO: A Policy on the Geometric Design of Highways and Streets
- AASHTO: Guide for the Development of Bicycle Facilities
- United States Access Board Streets and Sidewalks Guidelines
- Massachusetts Architectural Access Board (AAB 521 CMR: 21.2.1)
- MassDOT Separated Bike Lane Planning & Design Guide
- National Complete Streets Coalition Resources
- National Association of City Transportation Officials Design Guides

The Process

SRPEDD completed this Complete Streets Needs Assessment in the following steps:

1 *Review of Town Plans/Documents*

SRPEDD conducted a thorough review of the town's municipal documents (e.g. Master Plan, Open Space & Recreation Plan, Subdivision Rules and Regulations) to identify areas of focus and to reveal town priorities. In addition, at the project kick-off meeting, Norton's Complete Streets Working Group provided SRPEDD with a number of priority areas to the town.

2 *Existing Conditions Evaluation*

SRPEDD completed an extensive existing conditions evaluation of the pedestrian, bicycle, and transit networks throughout the winter months of 2017 and 2018. SRPEDD staff collected data about the roadway networks in Norton that helped identify gaps and needs as well as future project locations and their required components. More information regarding the elements of this survey are provided in the following sections.

3 *Project Development/Cost Estimation*

SRPEDD provided the town with the results of the Existing Conditions Evaluation in a clear and understandable format (map series with supportive text) and worked with the town to develop a draft list of projects and associated preliminary project costs.

4 *Project Evaluation & Prioritization*

SRPEDD and the Complete Streets Working Group developed a comprehensive evaluation criterion (scoring system based on value of improvement) for final project prioritization. In addition, SRPEDD worked with the Working Group to evaluate and prioritize the final list of specific projects for submittal to MassDOT.



1 Review of Town Plans/Documents

This assessment included the review of several of Norton's relevant planning documents. Those included the town's Master Plan (1998), the South Coast Rail Corridor Plan Five-Year Update of Community Priority Areas Report (2013), the Open Space & Recreation Plan (update pending in 2018), and the Rules and Regulations governing the Subdivision of Land (1998).

Master Plan (1998)

Norton's Master Plan is a long-term policy document that helps the town manage growth, preserve its natural resources, maintain the public facilities and services, and protect the property rights of its citizens. Although dated, some goals of the Transportation & Circulation section included improving vehicle circulation in many areas as well as improving pedestrian safety on streets such as Reservoir Street and Barrows Street.

South Coast Rail Corridor Plan Five-Year Update of Community Priority Areas Report (2013)

This report presented the result of a community-driven land use planning exercise that updated the 2008 Priority Development Areas (PDAs) and Priority Protection Areas (PPAs) in the town of Norton. The town identified six (6) Priority Development Areas, twelve (12) Priority Protection Areas and two (2) Combined Priority Development & Protection Areas.

Open Space & Recreation Plan (update pending in 2018)

Norton's Open Space & Recreation Plan primarily focused on the protection of ground and surface water, preventing the loss of natural resources and habitats, preventing the loss of rural, cultural and historical assets, promoting coordinated land use planning, and expanding its recreational opportunities. It should be noted that Action #13 - Complete the Norton Bike Path addresses Goal #6: "Expand and improve recreational opportunities that promote healthy, life-long experiences for residents of all ages and abilities".

Rules and Regulations governing the Subdivision of Land (1998)

Norton's Rules and Regulations governing the Subdivision of land regulate the laying out and construction of ways in subdivisions and, in proper cases, parks and open areas. Importantly, all subdivisions in Norton are required to construct a minimum of a four-foot sidewalk on one side of the road on Minor Streets; a minimum of a four-foot sidewalk on both sides of the road on Local Streets; and, a minimum of a five-foot sidewalk on both sides of the road on Major Streets with ADA compliant curb ramps.

2 Existing Conditions Evaluation

To report on the conditions of the pedestrian, bicycle, and transit network in Norton, a thorough survey was conducted. It began with a simple “verification” of the existing network presented in the MassDOT Road Inventory File confirming features such as sidewalk widths, material, and conditions; shoulder widths, material and conditions; the presence of street trees and roadside lighting; and crosswalk presence and conditions. The following sections describe the analysis completed as part of the Existing Conditions Evaluation.

Network Gap Analysis

SRPEDD analyzed the most recent and available bicycle, pedestrian, and transit facilities GIS data from the town and other relevant State entities to identify existing gaps in those networks. SRPEDD then performed field surveys to verify the GIS information and edited the file where needed. In addition, SRPEDD staff documented the characteristics (length, general pavement conditions, adjacent land characteristics, and land use) of the gaps in the network.

American with Disabilities Act (ADA) Survey

SRPEDD performed field surveys of ADA accommodations that included, but was not limited to: measuring existing sidewalk widths, identifying the number of sidewalk obstructions, surveying sidewalk surface conditions, and quantifying and surveying curb ramps (location, size, and physical components).

Bicycle, Pedestrian, and Transit Infrastructure Evaluation

SRPEDD performed a Bicycle, Pedestrian and Transit Infrastructure Evaluation in order to document the conditions of those facilities. The bicycle, pedestrian, and transit evaluation included, but was not limited to: documenting the condition and measuring the widths of roadway shoulders, identifying the presence and type of street lighting, identifying and evaluating the locations and conditions of transit facilities, and documenting signage.

Roadway & Intersection Crash Analysis

SRPEDD utilized MassDOT GIS crash data (2013-2015) to identify safety issues along all roadway corridors and at all unsignalized and signalized intersections in Norton. This information was used to conduct a thorough three-year crash analysis that included a review of any reported bicycle and pedestrian crashes.

3 Project Development/Cost Estimation

Based on the results of the town plans and document review and the existing conditions evaluation, SRPEDD developed a draft list of projects that filled the gaps in the network, improved ADA compliance, addressed aging and/or deteriorated infrastructure, and improved safety.

Project Development/Cost Estimation

SRPEDD provided the Working Group with the results of the Existing Conditions Evaluation in a map form and worked with the town to refine a draft list of projects. Following the confirmation of the draft project list, SRPEDD began work on the preliminary project costs for each project using the weighted bid prices found in MassDOT's Construction Project Estimator. The project cost estimation worksheets are included in Appendix E of this report.

4 Project Evaluation & Prioritization

Evaluation Criteria

SRPEDD developed a set of criteria to score projects in order to provide a prioritized list. The basic themes included: Livability/Sustainability, Connectivity, Safety, Trip Generators, Traffic Volume, Project Readiness, and Aligning with the Working Group. Each project received a numeric value (0-3) for each theme representing how the improvement addressed each issue. The Evaluation Criteria table is located in Appendix B of this report.

Prioritized List of Projects (Prioritization Plan)

SRPEDD and the Working Group considered the results of the evaluation criteria and weighed them against the objectives of the needs assessment to develop the final list of projects. The town then submitted the Prioritization Plan to MassDOT for approval.

Existing Conditions

General

The town of Norton, located in northwest Bristol County is composed of a combination of rural and suburban type residential properties with commercial entities generally located along Routes 123 and 140 and in the area of the Interstate 495 interchange. It is located approximately 30 miles south of Boston and approximately 18 miles north of Providence, RI. Neighboring towns include Mansfield to the north, Easton and Taunton to the east, Rehoboth to the south, and Attleboro to the west. Norton has five major rivers, large water bodies, many streams and extensive wetland areas (over 50% of the land mass). The major roadways in Norton include Interstate 495, Route 123, and Route 140. The town has regular fixed-route bus service via the Greater Attleboro Taunton Regional Transit Authority (GATRA). Areas in town that receive transit service generally include the Route 123 and Route 140 corridors. More detail about the fixed-route bus service in Norton is located in the Transit Network section on page 19 of this report.

Population

Norton is a rural-suburban community with a population of 19,031 (2010 Census). Between 2000 and 2010, the U. S. Census indicates that Norton's total population increased by nearly 5.5%, with the largest population growth occurring in the 55 to 64-year-old age group (64.1%). Like many other SRPEDD region communities, Norton's population is growing older, which demonstrates the importance of Complete Streets treatments in encouraging healthy and active lifestyles. It should also be noted that there are a large amount of families with children (approximately 36% of the households) living in Norton that also need Complete Streets to walk to school and nearby recreational sites.

Land Use

The majority of the town's residential development being in the form of low density single family homes. However, in recent years, there has been a number of higher density residential developments built near the I-495 interchange. Commercial land uses are generally found along the major roadway corridors (Route 123 and Route 140) and near the I-495 interchange in the western part of town. Due to the extensive amount of wetland areas, there is a large amount of undeveloped land generally dispersed throughout town. Norton's municipal uses, such as the Town Hall, Police Station, Post Office, and Schools are generally located on the Route 123 corridor.

Areas of Activity

Norton's Complete Streets Working Group, in collaboration with SRPEDD, identified a number of general areas that had land uses that typically generate auto, bicycle, and pedestrian trips. Those "Areas of Activity" are included below:

- **J.C. Solmonese Elementary School/Norton Middle School Area** (North Worcester Street, Walker Street, Oak Street)
- **L.G. Nourse Elementary School Area** (Pine Street, Plain Street, South Washington Street)
- **Reservoir Street Area** (Reservoir Street, Elm Street)
- **Future Rail Trail Area** (North Washington Street, Cobb Street, Newcomb Street)
- **South Worcester Street/John Scott Boulevard Area** (South Worcester Street, John Scott Boulevard, Dean Street, Harvey Street, Parker Street)
- **East Main Street (Town Owned) Area** (Leonard Street, Burt Street, Newland Street)

In addition, SRPEDD identified the following "Areas of Opportunity", which generally were areas that needed specific improvements:

- **Bicycle Improvements** (East Main Street, John Scott Boulevard, South Worcester Street)
- **Sidewalk Gaps** (Barrows Street, Olympia Street, Power Street)
- **Poor Infrastructure** (South Worcester Street)
- **No Infrastructure Present** (Pine Street, Plain Street, Reservoir Street)

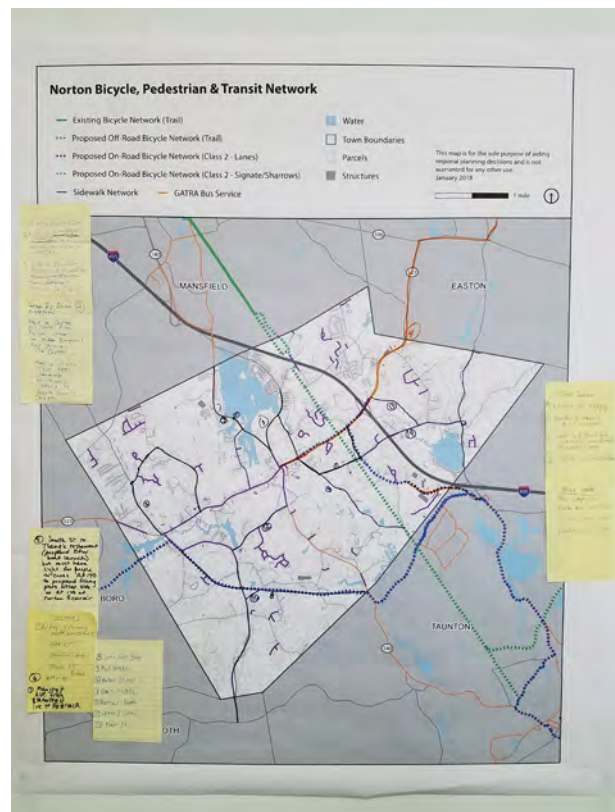
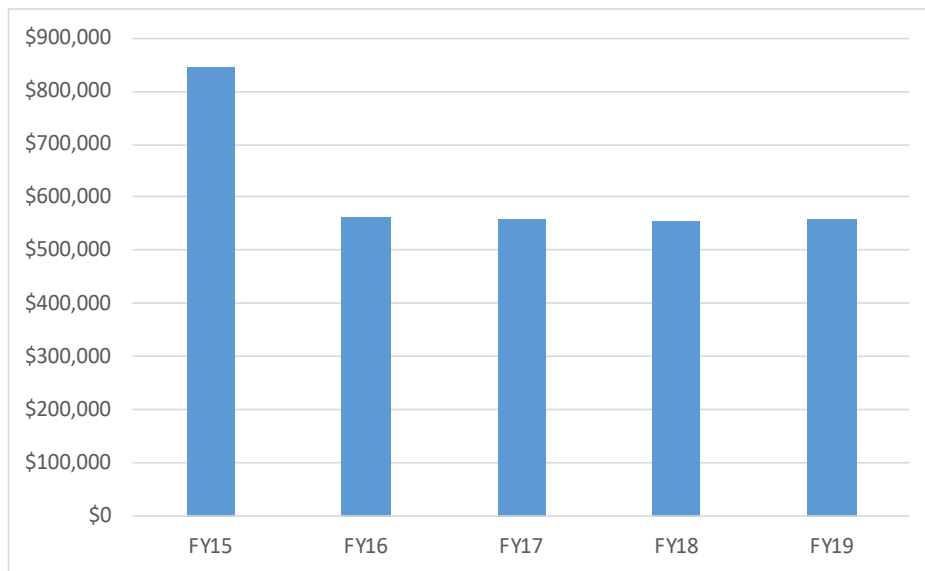


Figure 4: Working Group Priority Area Map

Chapter 90 Funding

Norton receives approximately \$560,000 per year in state aid (also known as Chapter 90 funds) to help maintain the locally owned roadways in town. The amount of funding that is received through the program combined with the increasing costs of projects generally provides for a limited number of projects each year. Simply said, there are more needs than there are funds to address them. Figure 5 shows Norton’s allotment of Chapter 90 funds from the past 5 years (FY15 to FY19).

Figure 5: Town of Norton Chapter 90 Fund Allocation (FY15 to FY19)



** FY15 Total Statewide Chapter 90 funding was \$300,000,000. Typical allocation is \$200,000,000.*

Considering the limited amount of Chapter 90 funds received each year, Norton is fortunate to be participating in the Complete Streets Funding Program in order to address much needed multi-modal improvement projects.

Road Network

In general, Norton's roadway network generally includes a pavement surface that includes either a double or single yellow centerline with no painted edgeline (formal shoulder demarcation) that meets a grassy or vegetated shoulder and does not include a formal drainage system or a sidewalk. Lane widths are generally 10-12 feet wide and the immediate land adjacent to the pavement surface includes large shade trees, dense vegetation, stone walls, and utility poles. That said, there are some roadways in town (East Main Street, John Scott Boulevard, Mansfield Avenue, Taunton Avenue) that generally have the roadside vegetation set back approximately seven to ten feet off the roadway edge.

Jurisdiction

According to the 2017 MassDOT Road Inventory File, Norton has a total 112.02 centerline miles of roadway. Approximately 92.41 centerline miles (83%) of the total are roadways under town jurisdiction while 13.47 miles are under MassDOT jurisdiction (western section of Route 123, Route 140, Interstate 495) and 6.14 miles are unaccepted roadways (see Figure 6 on page 15). It should be noted that SRPEDD only performed the existing conditions evaluation on town-owned roads.

Functional Classification

The Federal Highway Administration (FHWA) defines functional classification as "the process by which streets and highways are grouped into classes, or systems, according to the character of service they are intended to provide: 'The basic idea is to develop a network of roadways (arterials, collectors, and local roadways) that enable travel in the most logical manner possible. According to the 2017 MassDOT Road Inventory File, Norton contains a total of 4.41 centerline miles of interstate, 15.68 centerline miles of arterials, 11.83 centerline miles of collectors, and a total of 80.10 centerline miles of local roadways (see Figure 7 on page 16). This is important because only the interstates, arterials and collectors are eligible for federal aid; therefore, Norton must use their Chapter 90 funds to maintain approximately 72% of the roads in town.

Posted Speed Limits

The posted speed limits generally vary depending on the roadway. In general, the speed zones range from a low of 30 mph on many of the side roads in town (Oak Street, Plain Street, Pine Street) to a high of 45 mph, found on parts of John Scott Boulevard and Taunton Avenue (Route 140). The Manual on Uniform Traffic Control Devices (MUTCD) states that shared lane markings or “sharrows” should not be applied to roadways with posted speed limits over 35 mph. This limitation is important in Norton because the majority of town owned roadways cannot physically accommodate bicycle lanes (due to roadside constraints); therefore, in order to provide bicycle accommodations, Norton plans to provide shared use markings and MUTCD approved signage. That said, there are some roadways (East Main Street, Taunton Avenue/ Mansfield Avenue, and John Scott Boulevard) that have posted speeds limits above 35 mph and have existing space to consider bicycle lanes on both sides of the road.

Roadway & Intersection Safety

Norton did not have any locally owned intersections or areas that appeared on MassDOT’s Highway Safety Improvement Program (HSIP) Vehicle 2013-2015, Bicycle or Pedestrian 2006-2015 crash clusters or on MassDOT’s Top 200 Intersections Cluster (2013-2015). The crash analysis performed by SRPEDD using the last three years of available crash data (2013-2015) did highlight a few intersections that experienced elevated numbers of crashes; however, the majority of the crashes resulted in property damage only. In the three year period, there were a total of two crashes that involved a bicyclist and a total of one crash that involved a pedestrian. Those incidents occurred at higher traffic areas and on state owned roadways (East Main Street, Mansfield Avenue, and Taunton Avenue). Nevertheless, improvements to those locations should be pursued with MassDOT in the future.

Other locations that had elevated numbers of crashes included the following:

- 1.) East Main Street & Pine Street/Elm Street
- 2.) East Main Street & North/South Washington Street
- 3.) West Main Street & North/South Worcester Street
- 4.) Mansfield Avenue & Smith Street

Figure 6: Town of Norton Roadway Network by Jurisdiction

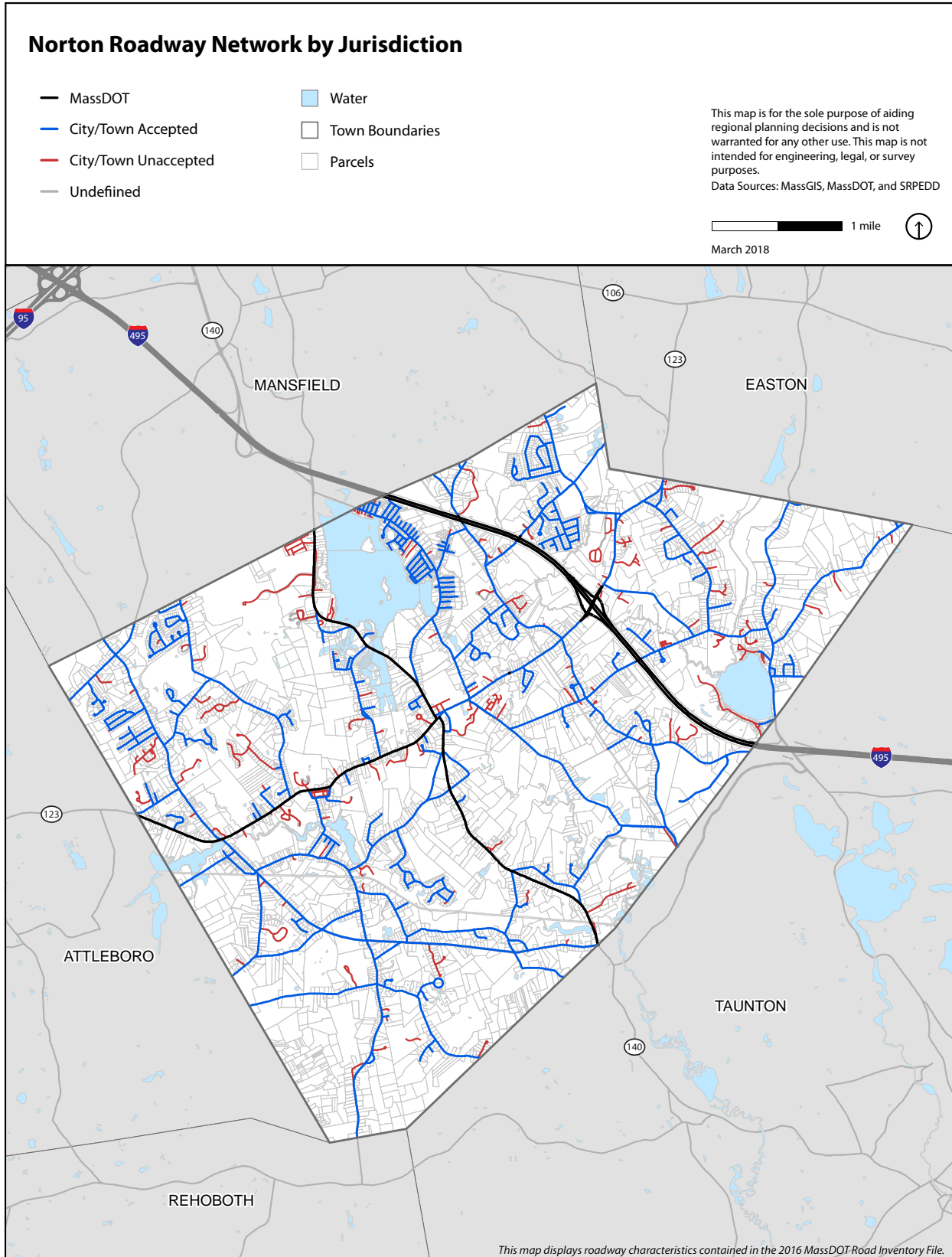
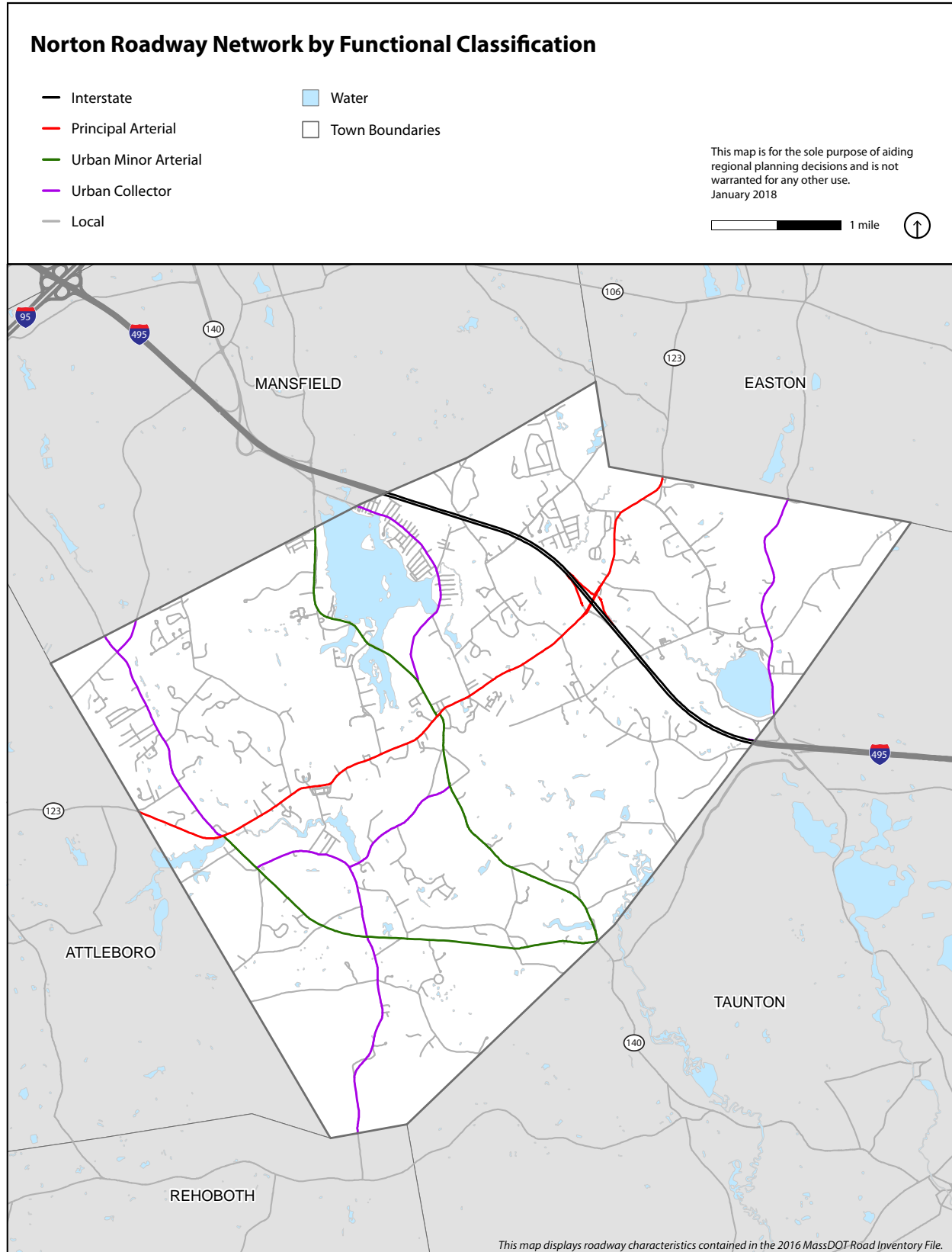


Figure 7: Town of Norton Roadway Network by Functional Classification



Pedestrian Network

The pedestrian network analysis consisted of verifying the existence of sidewalks, confirming their locations and extents, and analyzing their condition and compliance with the Americans with Disabilities Act (ADA) of 1990. The following sections highlight the results of SRPEDD's pedestrian network analysis.

Sidewalks

Norton's current sidewalk network is generally concentrated on and near the western section (Attleboro City Line to Route 140) of the Route 123 corridor. Examples of roadways with sidewalks that are near the Route 123 corridor include Freeman Street, South Worcester Street, and the Route 140 corridor. In addition, there are numerous cul-de-sacs in town that have existing sidewalks; however, there are no existing connections to the main roadways (See figure 11 on page 20).

Overall, the condition of the existing sidewalks in Norton vary. Some are newer and in good condition with proper ADA accessibility (South Worcester Street - from Barrows Street to Power Street), whereas others (South Worcester Street - from Power Street to East Main Street) are older and in fair to poor condition and do not provide proper ADA accessibility (inadequate clearance width, lack of proper curb ramps, trip hazards, and excessive slopes). SRPEDD identified many gaps in the existing sidewalk network along with many roadways with pedestrian trip generators that currently do not have sidewalks. Figure 8 shows an example of an older sidewalk with a deteriorated walk surface, a lack of ADA compliant curb ramps, and excessive cross slopes.



Figure 8: Older sidewalk on South Worcester Street with deteriorated walk surface.

Crossings

During the existing conditions evaluation, SRPEDD noted that the town generally uses two types of crosswalks; the “standard” type (found on Plain Street at the Canoe River) and the “solid” type (found on East Main Street and at the L.G. Nourse Elementary School). It should be noted that at the time of the field surveys, the majority of the existing crossing pavement markings were in good to fair condition. That said, it is recommended that town choose one type of crossing, either the high visibility “continental”, “zebra” or “ladder” type (as shown in Figure 10 below) and begin to apply that type throughout town.



Figure 9: “Solid” type crosswalk on Plain Street at the L.G. Nourse Elementary School.

Numerous studies been conducted to determine the best type of crossing treatment; however, at this point, the Manual on Uniform Traffic Control Devices (MUTCD) has yet to determine the preferred treatment. Nevertheless, those studies have shown that drivers were more likely to see the “continental”, “zebra”, and “ladder”; therefore, employing one of them for the entire town is highly recommended.

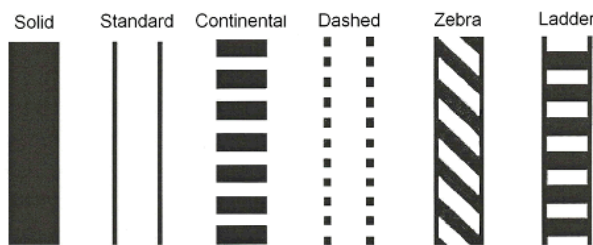


Figure 10: Crosswalk types

Bicycle Network

A bicycle network is an assemblage of facilities that enhance the safety and comfort of bicyclists. Facilities can generally be separated into three (3) groups: 1.) separate use paths and separated bicycle lanes (off-road facilities), 2.) on-road bicycle lanes, 3.) designated/signed routes and “sharrows”. For this assessment SRPEDD identified and analyzed Norton’s bicycle network and summarized them into either the “on-road” or “off-road” type facilities.

On-Road Bicycle Conditions

Norton lacks a formal “on-road” bicycle network. There are no marked bike lanes or shared use pavement markings (“sharrows”) in town. Currently, bicyclists must use either the formal painted shoulder (if present) or the edge of the travel lane and “share the road” with motorized vehicles; however, there currently isn’t signage that indicates this situation. Nevertheless, there are some roads in Norton where the creation of bike lanes is feasible (Route 123, Route 140, and John Scott Boulevard) due to the available pavement width. The remainder of Norton’s on-road bicycle facilities will need to include sharrows and appropriate signage due to a lack of adequate pavement width for bicycle lanes and roadside constraints (large shade trees, wetlands, utility poles, etc.).

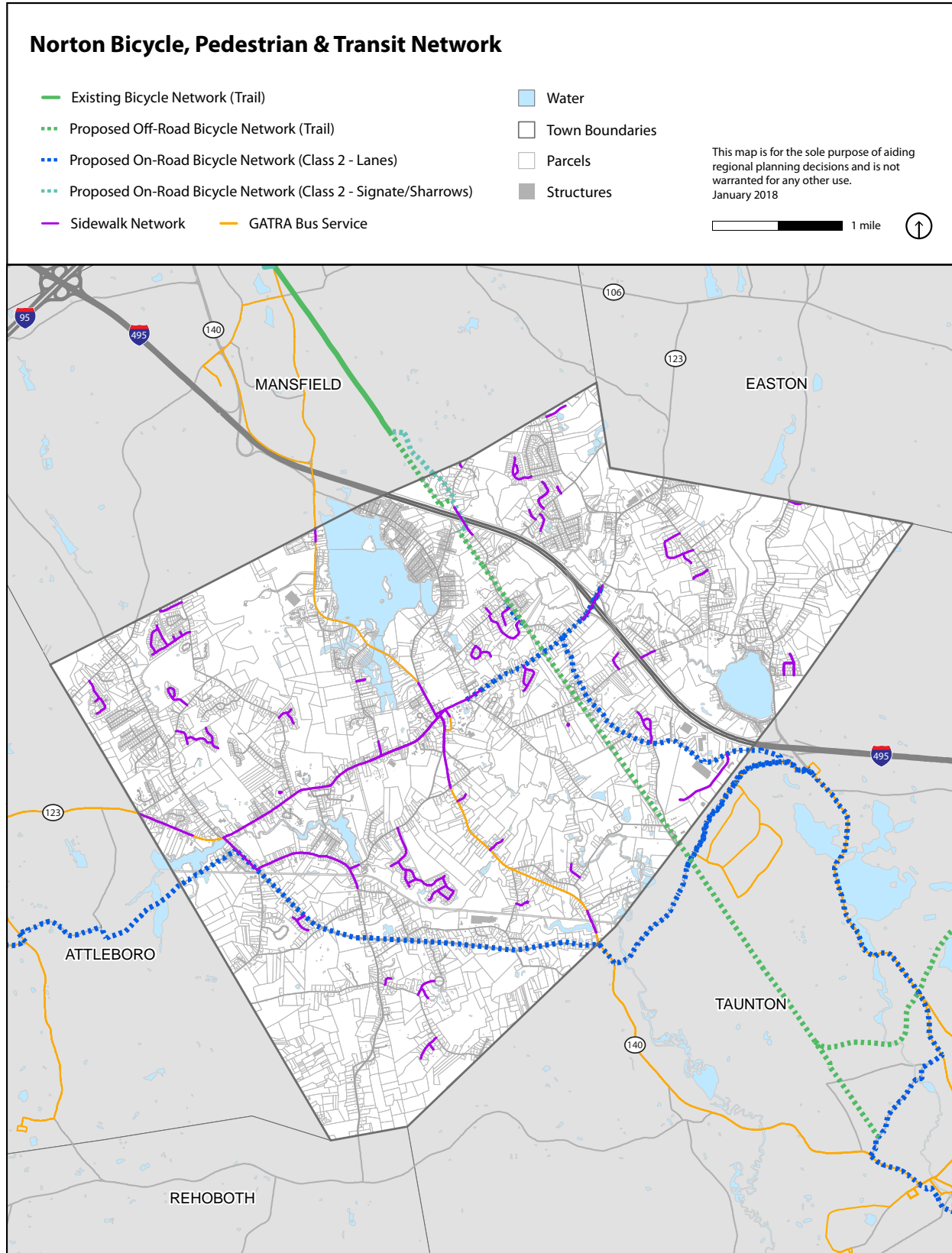
Off-Road Bicycle Conditions

There currently are no off-road bicycle facilities in Norton; however, the Norton-Mansfield Rail Trail Extension Project (#607822) that is currently in the Southeastern Massachusetts Metropolitan Planning Organization (SMMPO) FFY 2018-2022 Transportation Improvement Project (TIP) represents an opportunity to expand the future bicycle network going forward. This project will extend the existing rail trail in Mansfield, southerly through town on a utility right-of-way, to Hill Street and Crane Street near the Myles Standish Industrial Park in Taunton. Therefore, many of the projects listed in Norton’s Complete Streets Prioritization Plan are designed to connect users to this future off-road facility.

Transit Network

Norton has a small, yet important transit network via service provided by the Greater Attleboro/Taunton Regional Transit Authority (GATRA). Route 18 travels through the center of Norton (Route 123 & Route 140 intersection) connecting the Taunton Transit Center to the Attleboro Transit Center. In addition, the Wheaton T Shuttle provides service along Route 140 from the Post Office/Wheaton College area to the Mansfield MBTA station. GATRA primarily operates on a “flag stop” system, where riders simply “flag down” the bus to board (where it is safe). This type of system makes it challenging to improve connections to transit; however, those areas adjacent to the existing network are included in the project list to ensure that folks utilizing the transit service can access it as it passes by. The entire Bicycle, Pedestrian, and Transit Network in Norton is shown on Figure 11 on the next page.

Figure 11: Town of Norton Bicycle, Pedestrian & Transit Network



Network Gaps/Needs

Pedestrian Network

Norton has a limited sidewalk network that is generally located on or near the Route 123 corridor. The network contains some gaps that need filling; and, there are some areas that have issues with ADA accessibility. In addition, there are several roadways that are located in close proximity to pedestrian trip generators (small stores, schools, parks, etc.) that currently do not have sidewalks or bicycle facilities. As such, typical pedestrian projects in the Prioritization Plan include installing new or upgrading existing sidewalks, adding ADA/AAB compliant curb ramps, as well as improving crossing safety for pedestrians as well as adding facilities for bicyclists. For example, Project #3 - Plain Street Bicycle & Pedestrian Improvements Project includes installing a new 5-foot wide asphalt sidewalk with granite curbing on the left side of the road, adding ADA/AAB compliant curb ramps with tactile warning panels and a high visibility crosswalk at the intersection with Pine Street and the L.G. Nourse Elementary School and adding sharrows with MUTCD approved bicycle signage.

Bicycle Network

As previously referenced, Norton currently does not have a designated bicycle network and the majority of the roadways do not have the physical characteristics to provide formal bicycle lanes or even wider shoulders without incurring excessive costs. In addition, the posted speed limits on several of Norton's roads integral to a bicycle network (i.e.- East Main Street and John Scott Boulevard) are too high for the installation of "sharrows". In these instances, project recommendations include adding bicycle lanes with MUTCD approved bicycle lane signage. The other areas in town that can't support bicycle lanes will have "sharrows" and MUTCD approved signage.

Transit Network

The current transit network has substantial ridership with two GATRA routes (Route 18 and the Wheaton T Shuttle) in town. The routes travel along the town's major roadways (Route 123 and Route 140) with stops generally located at shopping areas or major intersections. There is currently a lack of service for the eastern part of town; however, the town would need to engage GATRA in discussions about the potential of this type of service.

Recommendations

The following are general recommendations to provide more complete streets elements in the town of Norton. These are meant to be completed over time and are separate from the MassDOT Complete Streets Funding Program.

Advocacy

The 3.3 mile section of Route 123 in Norton (from Attleboro City Line to Route 140) and the entire section of Route 140 in town are under MassDOT jurisdiction and, therefore, outside the jurisdiction of the town. Nevertheless, the town has a vested interest in the roadways and how they contribute to the connectivity of their network. Therefore, it is recommended that Norton continue to advocate for the improvement of the multimodal accommodations along both of these roadways and their intersections to ensure safety for all users.

Bicycle Facilities

Norton should explore every opportunity to install bicycle lanes or wider shoulders where high levels of bicyclists are present. The term “bicycle lane” refers to a portion of a roadway that has been designated for the preferential or exclusive use of bicyclists by striping, signing, and pavement markings. Bike lanes typically range from four feet to six feet in width. In the absence of a formal bike lane, Norton should make every effort to properly mark shoulders with striping and to widen them where possible. In 2016, SRPEDD completed a Regional Bicycle Plan that identified the existing bicycle infrastructure for its 27-member communities that make up Southeastern Massachusetts, and included a proposed plan for improving and expanding that infrastructure to create a safe, efficient, and connected bicycle network. Norton should continue to work closely with SRPEDD to identify future opportunities to link in-town routes to the larger regional bicycle network where possible.

Sidewalks

Sidewalk availability, condition, and surface width are important factors of the transportation network in every municipality. Increased opportunities to choose a more active lifestyle have shown to result in improved health, economic viability, neighborhood sustainability, and air quality. Norton has a limited sidewalk network and several areas are in need of improvement and expansion. Sidewalks should be vertically and horizontally separated from the roadway

and should be a minimum of five feet in width. It is preferable to have a minimum two-foot vegetated buffer strip between the curb and the sidewalk; however, including these elements is a challenge when the municipality does not own the right-of-way. Once constructed or replaced, it is very important that sidewalks are regularly inspected, kept clear of debris and vegetation, and maintained to ensure ADA compliance. Norton is encouraged to the maximum extent feasible under current funding constraints to regularly maintain the existing network to ensure its longevity.

Projects

As noted in the Methodology section, SRPEDD, in conjunction with town of Norton, evaluated each project to determine the overall benefit to the community. In summary, each project received a score based on the seven themes (highlighted in the Methodology section) and the result was a prioritized list of projects for the town of Norton.

Prioritization Plan & Implementation

The following are the top 15 projects listed in the Prioritization Plan that was submitted to MassDOT for approval (the entire Prioritization Plan can be found in Appendix A):

Project List

1. East Main Street Pedestrian Improvements

Resurface the existing sidewalk on the right side of the road to provide a 5 foot wide walk surface (Howard Street to Pine Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all pedestrian crossing locations (where necessary).

2. Pine Street Bicycle & Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

3. Plain Street Bicycle & Pedestrian Improvements (Phase I)

Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Pine Street to South Washington Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

4. Library Square Bicycle & Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Mansfield Avenue to Howard Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

5. Oak Street Bicycle & Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (West Main Street to Walker Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

6. Reservoir Street Bicycle & Pedestrian Improvements (Phase I)

Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Mansfield Avenue to Elm Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

7. Reservoir Street Bicycle & Pedestrian Improvements (Phase II)

Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Elm Street to Cobb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

8. Reservoir Street Bicycle & Pedestrian Improvements (Phase III)

Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Cobb Street to Mansfield Town Line). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

9. South Washington Street Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

10. South Worcester Street Bicycle & Pedestrian Improvements (Phase I)

Replace the existing sidewalk surface with a new 5 foot wide asphalt sidewalk with granite curbing (where necessary) on the right side of the road (John Scott Boulevard to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

11. Eddy Street/John Scott Boulevard Bicycle Improvements

Restripe roadway to provide 5 foot wide bicycle lanes with MUTCD approved bicycle lane pavement markings and bicycle lane signage (R3-17). Install radar speed feedback signs.

12. North Worcester Street Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (West Main Street to Walker Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

13. South Worcester Street Bicycle & Pedestrian Improvements (Phase III)

Replace existing sidewalk with new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Dean Street to Barrows Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

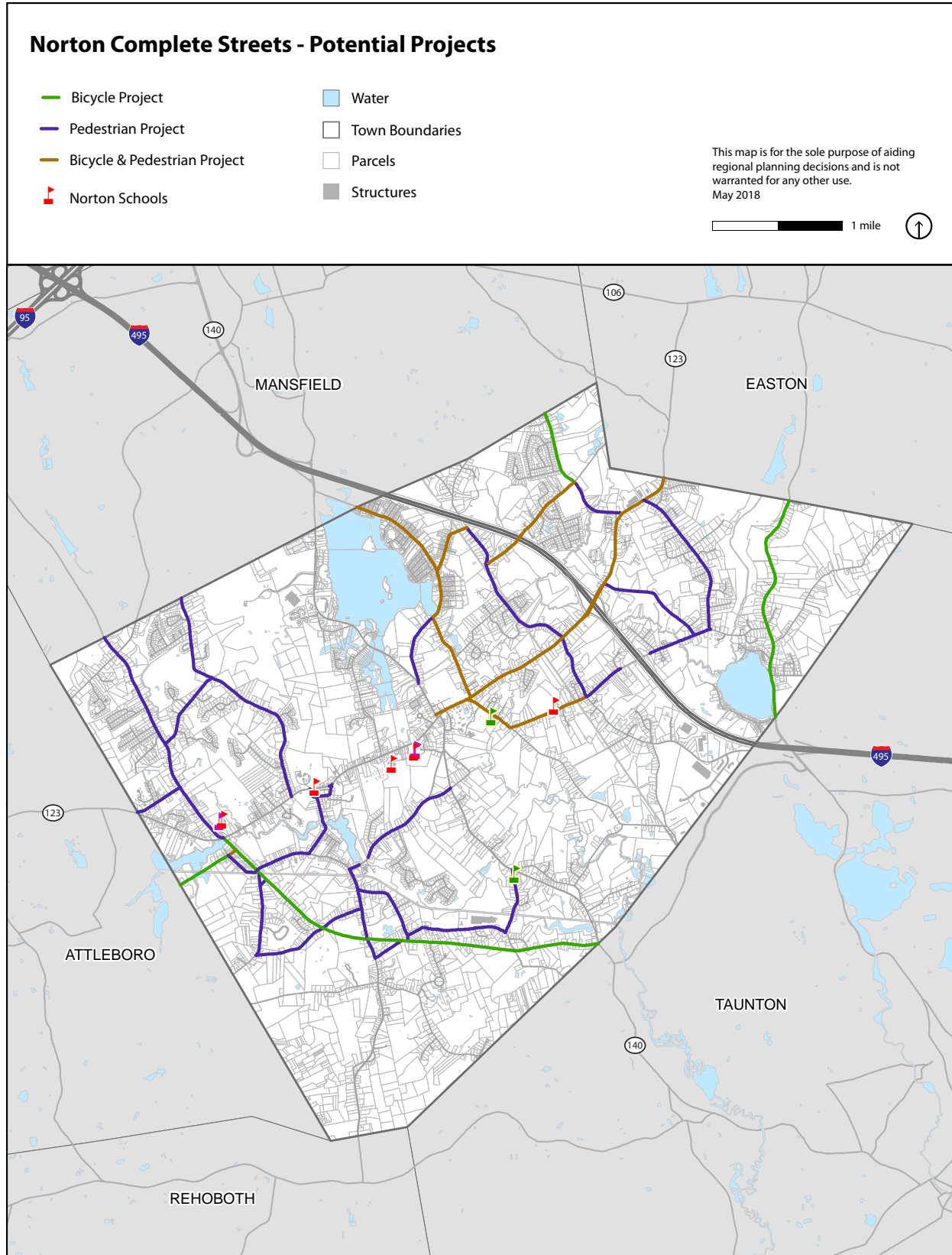
14. Elm Street Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (East Main Street to Reservoir Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

15. Olympia Street Bicycle & Pedestrian Improvements

Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Power Street to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Figure 12: Town of Norton Complete Streets Projects



Appendix A

Norton Complete Streets Prioritization Plan



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
 MassDOT District 5

Date 7/5/2018
 Name/Title Keith Silver, Highway Superintendent

Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs							Complete Streets Funding Request			Construction Schedule		
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
1	East Main Street Pedestrian Improvements	Resurface the existing sidewalk on the right side of the road to provide a 5 foot wide walk surface (Howard Street to Pine Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all pedestrian crossing locations (where necessary).	No	Howard Street to Pine Street	225967, 857222	226346, 857735	CS Needs Assessment	P2, P3, P5, P9, P12	X	X	X				No	\$52,070	\$52,070		6	05/01/19	
2	Pine Street Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Plain Street to East Main Street	226958, 857277	226346, 857735	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X			No	\$326,448	\$326,448		8	05/01/19	
3	Plain Street Bicycle & Pedestrian Improvements (Phase I)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Pine Street to South Washington Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Pine Street to South Washington Street	226958, 857277	228113, 857747	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X			No	\$432,296	\$400,000	CH 90 \$32,296	8	05/01/19	
4	Library Square Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Mansfield Avenue to Howard Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Mansfield Avenue to Howard Street	225818, 857475	225961, 857547	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X	X		No	\$55,147	\$55,147		6	05/01/19	
5	Oak Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (West Main Street to Walker Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	West Main Street to Walker Street	223624, 856229	222407, 858039	CS Needs Assessment	P2, P3, P5, P9, P12	X	X					No	\$1,274,674	\$400,000	TBD \$874,674	12	05/01/20	
6	Reservoir Street Bicycle & Pedestrian Improvements (Phase I)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Mansfield Avenue to Elm Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Mansfield Avenue to Elm Street	225557, 857954	225776, 858959	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X			No	\$414,914	\$400,000	CH 90 \$14,914	8	05/01/20	



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
 MassDOT District 5

Date 7/5/2018
 Name/Title Keith Silver, Highway Superintendent

Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs							Complete Streets Funding Request			Construction Schedule		
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Veicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
7	Reservoir Street Bicycle & Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Elm Street to Cobb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Elm Street to Cobb Street	225776, 858959	225843, 859645	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$284,111	\$284,111		8	05/01/20
8	Reservoir Street Bicycle & Pedestrian Improvements (Phase III)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Cobb Street to Mansfield Town Line). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Cobb Street to Mansfield Town Line	225843, 859645	224624, 860333	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$772,352	\$400,000	TBD \$372,352	8	05/01/20
9	South Washington Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Plain Street to East Main Street	228113, 857747	227744, 858642	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$362,804	\$362,804		8	05/01/20
10	South Worcester Street Bicycle & Pedestrian Improvements (Phase I)	Replace the existing sidewalk surface with a new 5 foot wide asphalt sidewalk with granite curbing (where necessary) on the right side of the road (John Scott Boulevard to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Sturdy Street to West Main Street	223100, 855110	222589, 855606	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X	X			No	\$219,451	\$219,451		8	05/01/20
11	Eddy Street/ John Scott Boulevard Bicycle Improvements	Restripe roadway to provide 5 foot wide bicycle lanes with MUTCD approved bicycle lane pavement markings and bicycle lane signage (R3-17). Install radar speed feedback signs.	No	Route 140 to South Worcester Street	228296, 853992	223100, 855110	CS Needs Assessment	S1, S5, B2, BO	X			X				No	\$190,914	\$190,914		4	05/01/21
12	North Worcester Street Pedestrian Improvements (Phase I)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (West Main Street to Walker Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	West Main Street to Walker Street	222583, 855604	221700, 857033	CS Needs Assessment	P2, P3, P5, P9, P12		X	X		X			No	\$593,684	\$400,000	TBD \$193,684	8	05/01/21
13	South Worcester Street Bicycle & Pedestrian Improvements (Phase III)	Replace existing sidewalk with new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Dean Street to Barrows Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Dean Street to Barrows Street	224628, 854830	224508, 855123	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$98,572	\$98,572		6	05/01/21



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
MassDOT District 5

Date 7/5/2018
Name/Title Keith Silver, Highway Superintendent

Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs							Complete Streets Funding Request			Construction Schedule		
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
14	Elm Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (East Main Street to Reservoir Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	East Main Street to Reservoir Street	226346, 857736	225777, 858959	CS Needs Assessment	P2, P3, P5, P9, P12	X	X						No	\$498,655	\$400,000	CH 90 \$98,655	8	05/01/21
15	Olympia Street Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Power Street to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Power Street to West Main Street	224004, 856226	224237, 856415	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X	X			No	\$211,389	\$211,389		6	05/01/21
16	Power Street Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (South Worcester Street to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	South Worcester Street to West Main Street	223892, 855358	223903, 856346	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X	X			No	\$518,598	\$400,000	TBD \$118,598	8	05/01/21
17	South Worcester Street Bicycle & Pedestrian Improvements (Phase II)	Replace the existing sidewalk with a new 5 foot wide asphalt sidewalk with granite curbing (where necessary) on the right side of the road (Power Street to John Scott Boulevard). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (Barrows Street to John Scott Boulevard).	No	Barrows Street to John Scott Boulevard	224508, 855123	223100, 855110	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$261,963	\$261,963		6	05/01/21
18	Walker Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (North Worcester Street to Oak Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	North Worcester Street to Oak Street	221700, 857033	222407, 858039	CS Needs Assessment	P2, P3, P5, P9, P12	X	X						No	\$666,129	\$400,000	TBD \$266,129	12	05/01/21
19	Cobb Street Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Reservoir Street to North Washington Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Reservoir Street to North Washington Street	225843, 859645	226294, 860326	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$321,837	\$321,837		8	05/01/22



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
MassDOT District 5

Date 7/5/2018
Name/Title Keith Silver, Highway Superintendent

Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs							Complete Streets Funding Request			Construction Schedule		
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
20	Newcomb Street Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (North Washington Street to #30 Newcomb Street & Jacobs Way to Newland Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	North Washington Street to Newland Street	226586, 859757	227928, 861015	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$713,565	\$400,000	TBD \$313,565	8	05/01/22
21	Newland Street Bicycle & Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (East Main Street to Newcomb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (East Main Street to Mansfield Town Line).	No	East Main Street to Mansfield Town Line	228647, 860528	227479, 862064	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$650,443	\$400,000	TBD \$250,443	8	05/01/22
22	North Washington Street Pedestrian Improvements (Phase I)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (East Main Street to Newcomb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	East Main Street to Newcomb Street	227756, 858654	226586, 859757	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$733,288	\$400,000	TBD \$333,288	8	05/01/22
23	North Washington Street Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Newcomb Street to Cobb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Newcomb Street to Cobb Street	226586, 859757	226294, 860326	CS Needs Assessment	P2, P3, P5, P9, P12	X	X	X					No	\$300,815	\$300,815		8	05/01/22
24	South Worcester Street Bicycle & Pedestrian Improvements (Phase IV)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Parker Court to #285 South Worcester Street) and on the right side of the road (#285 South Worcester Street to Dean Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	Parker Court to Dean Street	225395, 854127	224628, 854830	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$453,228	\$400,000	CH 90 \$53,228	8	05/01/22
25	South Worcester Street Bicycle & Pedestrian Improvements (Phase V)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Woodward Street to Parker Court). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (John Scott Boulevard to Parker Court).	No	John Scott Boulevard to Parker Court	227024, 853883	225395, 854127	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$628,054	\$400,000	TBD \$228,054	8	05/01/22



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
 MassDOT District 5

Date 7/5/2018
 Name/Title Keith Silver, Highway Superintendent

Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs							Complete Streets Funding Request			Construction Schedule		
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
26	Barrows Street Pedestrian Improvements (Phase I)	Replace existing sidewalk with new 5 foot wide asphalt sidewalks with granite curbing on the right side of the road (South Worcester Street to #132 Barrows Street) and install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (#118 Barrows Street to Fordham Drive). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	South Worcester Street to Fordham Drive	224508, 855123	225238, 855749	CS Needs Assessment	P2, P3, P5, P9, P12	X	X					No	\$332,185	\$332,185		6	05/01/22	
27	Dean Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Parker Street to Harvey Street) and replace the existing sidewalk with a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Harvey Street to South Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Parker Street to South Worcester Street	224897, 853772	224628, 854830	CS Needs Assessment	P2, P3, P5, P9, P12	X	X					No	\$348,447	\$348,447		6	05/01/23	
28	Harvey Street Pedestrian Improvements (Phase I)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Maple Street to John Scott Boulevard). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Maple Street to John Scott Boulevard	223087, 853817	224104, 854229	CS Needs Assessment	P2, P3, P5, P9, P12	X	X					No	\$459,186	\$400,000	CH 90 \$59,186	6	05/01/23	
29	Maple Street Pedestrian Improvements (Phase I)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Harvey Street to Goldenwood Drive). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Harvey Street to Goldenwood Drive	223087, 853817	223165, 854241	CS Needs Assessment	P2, P3, P5, P9, P12	X	X					No	\$155,731	\$155,731		6	05/01/23	
30	North Worcester Street Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Walker Street to Mansfield Town Line). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Walker Street to Mansfield Town Line	221700, 857033	220770, 858654	CS Needs Assessment	P2, P3, P5, P9, P12	X	X					No	\$728,464	\$400,000	TBD \$328,464	8	05/01/23	
31	Plain Street Bicycle & Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (South Washington Street to #126 Plain Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (South Washington Street to #160 Plain Street).	No	South Washington Street to #160 Plain Street	228113, 857747	229087, 858414	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X			No	\$403,052	\$400,000	CH 90 \$3,052	6	05/01/23	



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
 MassDOT District 5

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Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs							Complete Streets Funding Request			Construction Schedule		
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
32	Plain Street Bicycle & Pedestrian Improvements (Phase III)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (#160 Plain Street to Burt Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).	No	#160 Plain Street to Burt Street	229087, 858414	229981, 858773	CS Needs Assessment	B8, BO, P2, P3, P5, P9, P12	X	X	X	X				No	\$446,443	\$400,000	CH 90 \$46,443	6	05/01/23
33	Plain Street Bicycle Improvements	Add sharrows and bicycle signage (R4-11).	No	Burt Street to Bay Road	229981, 858773	230873, 858802	CS Needs Assessment	B8, BO	X			X				No	\$8,997	\$8,997		4	05/01/23
34	Pleasant Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Attleboro City Line to North Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Attleboro City Line to North Worcester Street	221269, 855990	221928, 856368	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$237,161	\$237,161		6	05/01/23
35	Sturdy Street & Union Road Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Sturdy Street from John Scott Boulevard to Union Road) and a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Union Road from Sturdy Street to South Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	John Scott Boulevard to South Worcester Street	223100, 855110	222663, 855338	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$237,340	\$237,340		6	05/01/24
36	Bay Road Bicycle Improvements	Add sharrows and bicycle signage (R4-11). Install radar speed feedback signs.	No	Taunton City Line to Easton Town Line	230991, 857433	231197, 860737	CS Needs Assessment	S5, B8, BO	X			X				No	\$50,556	\$50,556		4	05/01/24
37	Harvey Street Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (John Scott Boulevard to Dean Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	John Scott Boulevard to Dean Street	224104, 854229	224692, 854526	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$270,693	\$270,693		6	05/01/24
38	Maple Street Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Goldenwood Drive to John Scott Boulevard). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Goldenwood Drive to John Scott Boulevard	223165, 854241	223241, 854971	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$286,150	\$286,150		6	05/01/24
39	Parker Street/Parker Court Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Dean Street to South Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Dean Street to South Worcester Street	224897, 853772	225395, 854127	CS Needs Assessment	P2, P3, P5, P9, P12		X	X					No	\$316,787	\$316,787		6	05/01/24



Complete Streets Funding Program Project Prioritization Plan

Municipality Norton
 MassDOT District 5

Date 7/5/2018
 Name/Title Keith Silver, Highway Superintendent

Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs						Complete Streets Funding Request			Construction Schedule			
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)
40	Woodward Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (South Worcester Street to Taunton Avenue). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	South Worcester Street to Taunton Avenue	226879, 854164	226988, 855115	CS Needs Assessment	P2, P3, P5, P9, P12		X	X				No	\$363,564	\$363,564		6	05/01/24	
41	Barrows Street Pedestrian Improvements (Phase II)	Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Fordham Drive to Taunton Avenue). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Fordham Drive to Taunton Avenue	225238, 855749	226045, 856358	CS Needs Assessment	P2, P3, P5, P9, P12		X	X				No	\$525,439	\$400,000	TBD \$125,439	8	05/01/24	
42	Burt Street Pedestrian Improvements	Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.	No	Plain Street to East Main Street	229981, 858773	228986, 860739	CS Needs Assessment	P2, P3, P5, P9, P12		X	X				No	\$1,033,885	\$400,000	TBD \$633,885	8	05/01/24	

Appendix B

Complete Streets Evaluation Criteria

Town of Norton Complete Streets Evaluation Criteria

Theme	Points	Measurement
Livability/Sustainability	0	Project is located in a non-residential area
	1	Project is located in a low-density residential area with little nearby commercial or recreational uses
	2	Project is located in a medium-density residential area with some nearby commercial or recreational uses
	3	Project is located in a high-density residential area with a lot of nearby commercial or recreational uses
Connectivity	0	Project does not improve connectivity
	1	Project improves connectivity for 1 user
	2	Project improves connectivity for 2 users
	3	Project improves connectivity for more than 2 users
Safety	0	Project does not improve safety
	1	Project improves safety for 1 user
	2	Project improves safety for 2 users
	3	Project improves safety for more than 2 users
Trip Generators	0	Project does not provide connections to nearby trip generators
	1	Project provides connections to 1-2 trip generators
	2	Project provides connections to 3-4 trip generators
	3	Project provides connections to more than 4 trip generators
Traffic Volume	0	Project is located on a road very low traffic volumes
	1	Project is located on a road with low traffic volumes
	2	Project is located on a road with moderate traffic volumes
	3	Project is located on a road with high traffic volumes
Project Readiness	0	Project has not been designed yet
	1	Project is at 25% design
	2	Project is at 75% design
	3	Project does not require design or is at 100% design
Align with Working Group	0	Project was not identified by Working Group
	1	Project was identified as a low priority by Working Group
	2	Project was identified as a medium priority by Working Group
	3	Project was identified as a high priority by Working Group

Appendix C

Complete Streets Project Scoring Results

Town of Norton
Complete Streets Project Scoring Results

Project No.	Project Name	Project Extent	Livability/ Sustainability	Connectivity	Safety	Trip Generators	Traffic Volume	Project Readiness	Align with Town Plans	Estimated Project Cost	Total
1	East Main Street Pedestrian Improvements	Howard Street to Pine Street	2	1	1	3	3	3	3	\$52,069.59	16
2	Pine Street Bicycle & Pedestrian Improvements	Plain Street to East Main Street	2	2	2	3	2	0	2	\$326,447.99	13
3	Plain Street Bicycle & Pedestrian Improvements (Phase I)	Pine Street to South Washington Street	2	2	2	2	1	0	2	\$432,295.54	11
4	Library Square Bicycle & Pedestrian Improvements	Mansfield Avenue to Howard Street	2	2	2	2	2	0	0	\$55,147.50	10
5	Oak Street Pedestrian Improvements	West Main Street to Walker Street	1	2	2	2	1	0	2	\$1,274,674.47	10
6	Reservoir Street Bicycle & Pedestrian Improvements (Phase I)	Mansfield Avenue to Elm Street	2	2	2	0	2	0	2	\$414,914.27	10
7	Reservoir Street Bicycle & Pedestrian Improvements (Phase II)	Elm Street to Cobb Street	2	2	2	0	2	0	2	\$284,111.01	10
8	Reservoir Street Bicycle & Pedestrian Improvements (Phase III)	Cobb Street to Mansfield Town Line	2	2	2	0	2	0	2	\$772,352.35	10
9	South Washington Street Pedestrian Improvements	Plain Street to East Main Street	2	2	1	1	2	0	2	\$362,803.78	10
10	South Worcester Street Bicycle & Pedestrian Improvements (Phase I)	Sturdy Street to West Main Street	2	2	2	1	3	0	0	\$219,451.41	10
11	Eddy Street/ John Scott Boulevard Bicycle Improvements	Route 140 to South Worcester Street	1	1	1	1	3	0	2	\$190,913.98	9
12	North Worcester Street Pedestrian Improvements (Phase I)	West Main Street to Walker Street	1	1	1	2	2	0	2	\$593,683.92	9
13	South Worcester Street Bicycle & Pedestrian Improvements (Phase III)	Dean Street to Barrows Street	2	2	2	1	2	0	0	\$98,571.73	9
14	Elm Street Pedestrian Improvements	East Main Street to Reservoir Street	1	1	1	2	1	0	2	\$498,654.81	8
15	Olympia Street Bicycle & Pedestrian Improvements	Power Street to West Main Street	1	2	2	2	1	0	0	\$211,389.01	8
16	Power Street Bicycle & Pedestrian Improvements	South Worcester Street to West Main Street	1	2	2	2	1	0	0	\$518,597.84	8
17	South Worcester Street Bicycle & Pedestrian Improvements (Phase II)	Barrows Street to John Scott Boulevard	1	2	2	1	2	0	0	\$261,962.90	8
18	Walker Street Pedestrian Improvements	North Worcester Street to Oak Street	1	2	2	0	1	0	2	\$666,129.63	8
19	Cobb Street Bicycle & Pedestrian Improvements	Reservoir Street to North Washington Street	1	2	2	1	1	0	0	\$321,836.64	7
20	Newcomb Street Bicycle & Pedestrian Improvements	North Washington Street to Newland Street	2	2	2	0	1	0	0	\$713,565.37	7
21	Newland Street Bicycle & Pedestrian Improvements	East Main Street to Mansfield Town Line	2	2	2	0	1	0	0	\$650,442.77	7
22	North Washington Street Pedestrian Improvements (Phase I)	East Main Street to Newcomb Street	1	1	2	1	2	0	0	\$733,287.58	7
23	North Washington Street Pedestrian Improvements (Phase II)	Newcomb Street to Cobb Street	2	2	1	0	2	0	0	\$300,814.98	7
24	South Worcester Street Bicycle & Pedestrian Improvements (Phase IV)	Parker Court to Dean Street	1	2	2	0	2	0	0	\$453,228.36	7

Town of Norton
Complete Streets Project Scoring Results

Project No.	Project Name	Project Extent	Livability/ Sustainability	Connectivity	Safety	Trip Generators	Traffic Volume	Project Readiness	Align with Town Plans	Estimated Project Cost	Total
25	South Worcester Street Bicycle & Pedestrian Improvements (Phase V)	John Scott Boulevard to Parker Court	1	2	2	0	2	0	0	\$628,053.60	7
26	Barrows Street Pedestrian Improvements (Phase I)	South Worcester Street to Fordham Drive	2	1	1	1	1	0	0	\$332,184.70	6
27	Dean Street Pedestrian Improvements	Parker Street to South Worcester	1	1	1	1	1	0	1	\$348,447.17	6
28	Harvey Street Pedestrian Improvements (Phase I)	Maple Street to John Scott Boulevard	2	1	1	0	2	0	0	\$459,186.33	6
29	Maple Street Pedestrian Improvements (Phase I)	Harvey Street to Goldenwood Drive	2	1	1	0	2	0	0	\$155,730.75	6
30	North Worcester Street Pedestrian Improvements (Phase II)	Walker Street to Mansfield Town Line	2	1	1	0	2	0	0	\$728,464.05	6
31	Plain Street Bicycle & Pedestrian Improvements (Phase II)	South Washington Street to #160 Plain Street	1	2	2	0	1	0	0	\$403,051.52	6
32	Plain Street Bicycle & Pedestrian Improvements (Phase III)	#160 Plain Street to Burt Street	1	2	2	0	1	0	0	\$446,443.03	6
33	Plain Street Bicycle Improvements	Burt Street to Bay Road	1	2	2	0	1	0	0	\$8,996.91	6
34	Pleasant Street Pedestrian Improvements	Attleboro City Line to North Worcester Street	2	1	1	1	1	0	0	\$237,160.53	6
35	Sturdy Street & Union Road Pedestrian Improvements	John Scott Boulevard to South Worcester Street	2	1	1	1	1	0	0	\$237,340.39	6
36	Bay Road Bicycle Improvements	Taunton City Line to Easton Town	1	1	1	0	2	0	0	\$50,565.73	5
37	Harvey Street Pedestrian Improvements (Phase II)	John Scott Boulevard to Dean Street	1	1	1	0	2	0	0	\$270,692.81	5
38	Maple Street Pedestrian Improvements (Phase II)	Goldenwood Drive to John Scott Boulevard	1	1	1	0	2	0	0	\$286,150.06	5
39	Parker Street/Parker Court Pedestrian Improvements	Dean Street to South Worcester Street	1	1	1	1	1	0	0	\$316,787.27	5
40	Woodward Street Pedestrian Improvements	South Worcester Street to Taunton Avenue	1	1	1	1	1	0	0	\$363,564.48	5
41	Barrows Street Pedestrian Improvements (Phase II)	Fordham Drive to Taunton Avenue	1	1	1	0	1	0	0	\$525,439.31	4
42	Burt Street Pedestrian Improvements	Plain Street to East Main Street	1	1	1	0	1	0	0	\$1,033,885.22	4

Appendix D
Crash Summary Table (2013-2015)

**Town of Norton
Crash Summary Table (2013-2015)**

	EMain St. & Burt St.	EMain St. & Elm St. Pine St.	EMain St. & Howard St. & Liberty Sq.	EMain St. & Leonard Ave.	EMain St. & Newland St.	EMain St. & N&S Washington St.	WMain St. & Freeman St.	WMain St. & Liberty Sq. & Mansfield/Taunton St.	WMain St. & N&S Worcester St. & Old Colony St.	WMain St. & Oak St.	WMain St. & Olympia St.	WMain St. & Power St.	Taunton St. & Barrows St. & Clapp St.	Taunton St. & Eddy St.	Mansfield St. & Reservoir St.	Mansfield St. & Smith St.	JScott Blvd. & Dean St.	JScott Blvd. & SWorcester St. & Sturdy St.	NWorcester St. & Richardson Ave.	NWorcester St. & Walker St.	SWorcester St. & Barrows St.	SWorcester St. & Union Rd.	Bay Rd. & Lincoln St.	Bay Rd. & Plain St.	Plain St. & Burt St.	Plain St. & Leonard St.	Plain St. & Pine St.	Plain St. & SWashington St.	Reservoir St. & Elm St.		
Year																															
2013	1	3	5	2	0	3	3	4	7	1	1	4	2	0	2	4	0	0	3	2	0	2	1	2	2	0	2	0	1	1	
2014	2	8	4	3	1	5	2	6	3	3	1	0	2	4	0	8	2	2	1	0	1	0	1	2	0	0	0	2	1		
2015	2	7	3	2	1	4	5	13	5	2	1	1	3	1	0	3	1	2	2	1	1	1	2	2	1	2	0	3	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Average per year	1.00	3.60	2.40	1.40	0.40	2.40	2.00	4.60	3.00	1.20	0.60	1.00	1.40	1.00	0.40	3.00	0.60	0.80	1.20	0.60	0.40	0.60	0.80	1.20	0.60	0.40	0.40	1.00	0.40		
Collision Type																															
Angle	3	9	1	0	2	6	3	4	7	4	0	0	3	1	1	7	1	2	4	1	0	2	1	3	0	0	1	4	1		
Head-on	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Rear-end	1	3	8	4	0	5	6	14	4	2	1	3	2	2	0	4	1	1	0	0	1	1	0	0	0	1	0	1	0		
Rear-to-Rear	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sideswipe, opposite direction	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sideswipe, same direction	0	2	1	0	0	1	0	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Single vehicle crash	1	3	2	2	0	0	0	1	1	0	1	1	2	2	1	3	1	1	2	0	1	0	3	3	3	1	1	0	1		
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Not reported	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Crash Severity																															
Fatal injury	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Non-fatal injury	0	4	3	1	0	5	3	6	2	2	2	1	3	1	0	3	1	1	1	0	2	0	1	0	1	0	0	1	0		
Property damage only	5	11	9	6	2	6	6	15	11	4	1	3	4	4	2	12	2	3	5	3	0	2	3	5	2	2	2	4	2		
Unknown	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Not reported	0	2	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Collision With																															
Motor Vehicle In Traffic	5	16	9	6	2	12	10	23	14	6	2	4	5	3	1	11	3	3	4	3	1	3	1	3	1	1	1	5	1		
Parked Motor Vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Pedestrian	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Cyclist	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Animal (Deer)	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Animal (Other)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Moped	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Workzone Maintenance Equip	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Railway (Train, Engine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Movable Object	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
Curb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
Tree	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	1	0	0		
Utility Pole	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1	2	0	0	0	0		
Light Pole or other post/support	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Guardrail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Median Barrier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Ditch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Embankment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Bridge overhead structure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown fixed object	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Overturn/rollover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		
Jackknife	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other non-collision	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown non-collision	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0		
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Time of Day																															
6 AM to 10 AM	0	2	1	2	0	4	3	4	3	2	1	1	0	3	1	3	1	0	3	1	0	0	0	2	0	1	1	1	1		
10 AM to 4 PM	2	8	3	1	2	4	3	9	6	3	2	4	5	2	0	11	1	0	1	1	1	2	1	3	2	0	1	1			
4 PM to 7 PM	2	8	6	4	0	4	2	7	4	1	0	0	1	0	1	0	2	0	1	0	0	1	0	1	0	0	3	0			
7 PM to 12 PM	0	0	1	0	0	0	2	3	1	0	0	0	1	0	0	0	1	2	0	1	1	2	1	0	0	0	0	0			
12 AM to 6 AM	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0			
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Day of Week																															
Sunday	0	2	1	1	1	0	0	3	1	1	0	0	1	0	0	3	0	0	1	0	1	0	0	0	1	0	0	0	0		
Monday	1	1	3	2	0	2	3	6	2	0	0	0	2																		

**Town of Norton
Crash Summary Table (2013-2015)**

	EMain St. & Burt St.	EMain St. & Elm St. Pine St.	EMain St. & Howard St. & Liberty Sq.	EMain St. & Leonard Ave.	EMain St. & Newland St.	EMain St. & N&S Washington St.	WMain St. & Freeman St.	WMain St. & Liberty Sq. & Mansfield/Taunton St.	WMain St. & N&S Worcester St. & Old Colony St.	WMain St. & Oak St.	WMain St. & Olympia St.	WMain St. & Power St.	Taunton St. & Barrows St. & Clapp St.	Taunton St. & Eddy St.	Mansfield St. & Reservoir St.	Mansfield St. & Smith St.	JScott Blvd. & Dean St.	JScott Blvd. & SWorcester St. & Sturdy St.	NWorcester St. & Richardson Ave.	NWorcester St. & Walker St.	SWorcester St. & Barrows St.	SWorcester St. & Union Rd.	Bay Rd. & Lincoln St.	Bay Rd. & Plain St.	Plain St. & Burt St.	Plain St. & Leonard St.	Plain St. & Pine St.	Plain St. & SWashington St.	Reservoir St. & Elm St.		
Month of Year																															
January	0	3	1	0	1	2	0	0	0	0	1	0	1	2	0	1	1	3	1	0	0	0	0	0	0	0	0	1	0	1	
February	2	2	3	0	0	2	0	0	2	1	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	
March	0	1	3	0	0	0	0	7	1	1	0	0	0	0	0	1	1	0	1	1	0	0	1	1	1	0	0	1	0		
April	1	2	2	1	0	0	0	1	0	1	0	0	2	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0		
May	0	2	1	1	0	0	0	2	0	1	0	0	2	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0		
June	1	2	0	0	0	2	2	2	1	0	0	2	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	1	0		
July	0	1	1	2	0	1	0	1	1	0	0	1	0	0	0	2	0	0	1	0	0	0	1	1	2	0	0	0	0		
August	1	2	0	1	0	0	1	4	3	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0		
September	0	0	1	0	0	1	1	0	3	1	0	0	1	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	1		
October	0	2	0	1	0	0	1	4	2	0	0	0	1	0	0	3	1	0	1	0	0	0	0	0	0	0	0	0	1		
November	0	1	0	1	1	3	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	2	0	0	0	1	0		
December	0	0	0	0	0	1	4	2	2	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	1	1	1	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Road Surface Condition																															
Dry	3	16	9	7	2	10	5	18	14	4	2	5	6	4	1	11	2	4	4	1	2	1	2	4	1	2	1	3	1		
Wet	1	0	0	0	0	1	4	4	1	1	0	0	1	0	1	4	0	0	0	0	0	1	1	2	2	0	1	2	0		
Snow	1	2	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0		
Ice	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1		
Sand, mud, dirt, oil, gravel	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Water (standing, moving)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Slush	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Not reported	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Weather																															
Clear	3	15	7	7	1	12	5	20	13	4	2	5	6	4	0	10	3	4	4	1	2	0	1	5	0	2	1	2	2		
Cloudy	0	0	2	0	1	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	1	1	0	1	0	0	2	0		
Rain	1	0	0	0	0	0	4	1	1	0	0	0	1	0	1	4	0	0	0	0	0	1	1	1	1	0	1	0	0		
Snow	1	1	2	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	1	0	1	1	0	1	0	0	0	0		
Sleet, Hail, Freezing Rain	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
Fog, Smog, Smoke	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Severe Crosswinds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Blowing Sand, Snow	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Not Reported	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		
Light Conditions																															
Daylight	2	15	10	6	2	11	6	19	12	6	2	4	5	3	1	15	2	1	4	2	1	2	1	5	2	1	1	3	2		
Dawn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dusk	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Dark/Lighted Road	2	3	2	0	0	1	3	3	3	0	1	1	2	1	0	1	3	1	0	1	1	1	2	0	1	1	0	2	0		
Dark/Road Not Lighted	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0		
Dark/Unknown Lighting	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Not Reported	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		
Total	5	18	12	7	2	12	10	23	15	6	3	5	7	5	2	15	3	4	6	3	2	3	4	6	3	2	2	5	2		

Appendix E

Complete Streets Project Cost Estimate Worksheets

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 1

Project Name: East Main Street Pedestrian Improvements

Description: Resurface the existing sidewalk on the right side of the road to provide a 5 foot wide walk surface (Howard Street to Pine Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all pedestrian crossing locations (where necessary).

Extent: Howard Street to Pine Street

Total Length: 1,383 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	307	\$34.78	\$10,689.05
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	922	\$4.00	\$3,688.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	231	\$45.00	\$10,372.50
420.00	Hot Mix Asphalt Base Course (2")	TON	100	\$95.00	\$9,544.46
460.00	Hot Mix Asphalt Top Course (1")	TON	48	\$90.00	\$4,331.56
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	0	\$42.25	\$0.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	51	\$45.00	\$2,305.00
765.00	Seeding	SY	154	\$2.00	\$307.33

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$45,277.91**
 15% Contingency \$6,791.69

Total \$52,069.59
MassDOT Complete Streets Funding Request **\$52,069.59**

Notes: (1) Crosswalk: Western Portion of Pine Street Triangle

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 2

Project Name: Pine Street Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Plain Street to East Main Street

Total Length: 2,797 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	803	\$34.78	\$27,922.87
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,729	\$4.00	\$14,917.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	3	\$1,440.00	\$4,320.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	5	\$10,000.00	\$50,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	28	\$180.00	\$5,034.60

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	466	\$45.00	\$20,977.50
420.00	Hot Mix Asphalt Base Course (2")	TON	191	\$95.00	\$18,108.48
460.00	Hot Mix Asphalt Top Course (1")	TON	94	\$90.00	\$8,486.45
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,797	\$42.25	\$118,173.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	52	\$40.00	\$2,080.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	40	\$100.00	\$4,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	2	\$1,000.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	104	\$45.00	\$4,661.67
765.00	Seeding	SY	311	\$2.00	\$621.56

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	28	\$80.00	\$2,237.60
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$283,867.82
<i>15% Contingency</i>					<i>\$42,580.17</i>

Total \$326,447.99
MassDOT Complete Streets Funding Request **\$326,447.99**

Notes: (2) Crosswalks: Morgan Lane and Lester Gray Drive

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 3

Project Name: Plain Street Bicycle & Pedestrian Improvements (Phase I)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Pine Street to South Washington Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Pine Street to South Washington Street

Total Length: 4,097 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,176	\$34.78	\$40,900.96
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	5,463	\$4.00	\$21,850.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	3	\$1,440.00	\$4,320.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	1	\$10,000.00	\$10,000.00
715.10	Mailbox Removed & Reset	Each	12	\$169.33	\$2,031.96

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	41	\$180.00	\$7,374.60

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	683	\$45.00	\$30,727.50
420.00	Hot Mix Asphalt Base Course (2")	TON	279	\$95.00	\$26,525.00
460.00	Hot Mix Asphalt Top Course (1")	TON	138	\$90.00	\$12,430.81
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	4,097	\$42.25	\$173,098.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	156	\$40.00	\$6,240.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	120	\$100.00	\$12,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	6	\$1,000.00	\$6,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	152	\$45.00	\$6,828.33
765.00	Seeding	SY	455	\$2.00	\$910.44

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	6	\$108.84	\$653.04
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	41	\$80.00	\$3,277.60
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	1	\$10,000.00	\$10,000.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$375,909.16**
 15% Contingency \$56,386.37

Total **\$432,295.54**
MassDOT Complete Streets Funding Request **\$432,295.54**

Notes: (6) Crosswalks: 3 at L.G. Nourse School Driveways, L.G. Nourse School to Ballfields, Carpenter Road, and Draper Street

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 4

Project Name: Library Square Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Mansfield Avenue to Howard Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Mansfield Avenue to Howard Street

Total Length: 551 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	158	\$34.78	\$5,500.71
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	735	\$4.00	\$2,938.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	3	\$180.00	\$495.90

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	92	\$45.00	\$4,132.50
420.00	Hot Mix Asphalt Base Course (2")	TON	38	\$95.00	\$3,567.31
460.00	Hot Mix Asphalt Top Course (1")	TON	19	\$90.00	\$1,671.80
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	551	\$42.25	\$23,279.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	20	\$45.00	\$918.33
765.00	Seeding	SY	61	\$2.00	\$122.44

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	3	\$80.00	\$220.40
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal \$47,954.34
 15% Contingency \$7,193.15

Total \$55,147.50
MassDOT Complete Streets Funding Request \$55,147.50

Notes: (1) Crosswalk: College Green Drive

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 5

Project Name: Oak Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (West Main Street to Walker Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: West Main Street to Walker Street

Total Length: 8,061 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	2,314	\$34.78	\$80,474.16
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	10,748	\$4.00	\$42,992.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	55	\$1,440.00	\$79,200.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	39	\$10,000.00	\$390,000.00
715.10	Mailbox Removed & Reset	Each	57	\$169.33	\$9,651.81

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	1,344	\$45.00	\$60,457.50
420.00	Hot Mix Asphalt Base Course (2")	TON	549	\$95.00	\$52,188.93
460.00	Hot Mix Asphalt Top Course (1")	TON	272	\$90.00	\$24,458.08
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	8,061	\$42.25	\$340,577.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	78	\$40.00	\$3,120.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	60	\$100.00	\$6,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	3	\$1,000.00	\$3,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	299	\$45.00	\$13,435.00
765.00	Seeding	SY	896	\$2.00	\$1,791.33

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$1,108,412.58**
 15% Contingency \$166,261.89

Total **\$1,274,674.47**
MassDOT Complete Streets Funding Request **\$1,274,674.47**

Notes: (3) Crosswalks: Ulmers Farm Road, Shelly Road, and Fletcher Way

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 6

Project Name: Reservoir Street Bicycle & Pedestrian Improvements (Phase I)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Mansfield Avenue to Elm Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Mansfield Avenue to Elm Street

Total Length: 3,714 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,066	\$34.78	\$37,077.41
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	4,952	\$4.00	\$19,808.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	16	\$1,440.00	\$23,040.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	4	\$10,000.00	\$40,000.00
715.10	Mailbox Removed & Reset	Each	23	\$169.33	\$3,894.59

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	37	\$180.00	\$6,685.20

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	619	\$45.00	\$27,855.00
420.00	Hot Mix Asphalt Base Course (2")	TON	253	\$95.00	\$24,045.36
460.00	Hot Mix Asphalt Top Course (1")	TON	125	\$90.00	\$11,268.74
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,714	\$42.25	\$156,916.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	138	\$45.00	\$6,190.00
765.00	Seeding	SY	413	\$2.00	\$825.33

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	37	\$80.00	\$2,971.20
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$360,795.02**
 15% Contingency \$54,119.25

Total \$414,914.27
MassDOT Complete Streets Funding Request **\$414,914.27**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 7

Project Name: Reservoir Street Bicycle & Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Elm Street to Cobb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Elm Street to Cobb Street

Total Length: 2,386 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	685	\$34.78	\$23,819.79
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,181	\$4.00	\$12,725.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	5	\$1,440.00	\$7,200.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	2	\$10,000.00	\$20,000.00
715.10	Mailbox Removed & Reset	Each	16	\$169.33	\$2,709.28

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	24	\$180.00	\$4,294.80

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	398	\$45.00	\$17,895.00
420.00	Hot Mix Asphalt Base Course (2")	TON	163	\$95.00	\$15,447.56
460.00	Hot Mix Asphalt Top Course (1")	TON	80	\$90.00	\$7,239.42
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,386	\$42.25	\$100,808.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	182	\$40.00	\$7,280.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	140	\$100.00	\$14,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	7	\$1,000.00	\$7,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	88	\$45.00	\$3,976.67
765.00	Seeding	SY	265	\$2.00	\$530.22

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	24	\$80.00	\$1,908.80
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal	\$247,053.06
<i>15% Contingency</i>	<i>\$37,057.96</i>

Total \$284,111.01
MassDOT Complete Streets Funding Request **\$284,111.01**

Notes: (7) Crosswalks: Acre Road, Ledge Road, Arrow Road, Indian Road, Lake Ridge Drive, Wampum Road, Rumford Road

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 8

Project Name: Reservoir Street Bicycle & Pedestrian Improvements (Phase III)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Cobb Street to Mansfield Town Line). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Cobb Street to Mansfield Town Line

Total Length: 5,368 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,541	\$34.78	\$53,589.54
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	7,157	\$4.00	\$28,629.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	23	\$1,440.00	\$33,120.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	17	\$10,000.00	\$170,000.00
715.10	Mailbox Removed & Reset	Each	43	\$169.33	\$7,281.19

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	54	\$180.00	\$9,662.40

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	895	\$45.00	\$40,260.00
420.00	Hot Mix Asphalt Base Course (2")	TON	366	\$95.00	\$34,753.77
460.00	Hot Mix Asphalt Top Course (1")	TON	181	\$90.00	\$16,287.18
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	5,368	\$42.25	\$226,798.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	234	\$40.00	\$9,360.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	180	\$100.00	\$18,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	9	\$1,000.00	\$9,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	199	\$45.00	\$8,946.67
765.00	Seeding	SY	596	\$2.00	\$1,192.89

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	4	\$108.84	\$435.36
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	54	\$80.00	\$4,294.40
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal	\$671,610.74
<i>15% Contingency</i>	<i>\$100,741.61</i>

Total \$772,352.35
MassDOT Complete Streets Funding Request **\$772,352.35**

Notes: (9) Crosswalks: Alder Road, Evergreen Street, Lantern Lane, Farm Lane, Juniper Road, S. Lakeview Road, S. Highland Road, Grove Lane, Bailey Lane

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 9

Project Name: South Washington Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Plain Street to East Main Street

Total Length: 3,222 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	925	\$34.78	\$32,165.70
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	4,296	\$4.00	\$17,184.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	5	\$1,440.00	\$7,200.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	6	\$10,000.00	\$60,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	537	\$45.00	\$24,165.00
420.00	Hot Mix Asphalt Base Course (2")	TON	220	\$95.00	\$20,860.00
460.00	Hot Mix Asphalt Top Course (1")	TON	109	\$90.00	\$9,775.95
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,222	\$42.25	\$136,129.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	4	\$370.00	\$1,480.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	119	\$45.00	\$5,370.00
765.00	Seeding	SY	358	\$2.00	\$716.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	4	\$108.84	\$435.36
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal	\$315,481.55
<i>15% Contingency</i>	<i>\$47,322.23</i>

Total \$362,803.78
MassDOT Complete Streets Funding Request **\$362,803.78**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 10

Project Name: South Worcester Street Bicycle & Pedestrian Improvements (Phase I)

Description: Replace the existing sidewalk surface with a new 5 foot wide asphalt sidewalk with granite curbing (where necessary) on the right side of the road (John Scott Boulevard to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Sturdy Street to West Main Street

Total Length: 2,332 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	669	\$34.78	\$23,280.70
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,109	\$4.00	\$12,437.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	2	\$169.33	\$338.66

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	23	\$180.00	\$4,197.60

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	389	\$45.00	\$17,490.00
420.00	Hot Mix Asphalt Base Course (2")	TON	159	\$95.00	\$15,097.95
460.00	Hot Mix Asphalt Top Course (1")	TON	79	\$90.00	\$7,075.58
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,332	\$42.25	\$98,527.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	2	\$1,000.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	86	\$45.00	\$3,886.67
765.00	Seeding	SY	259	\$2.00	\$518.22

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	23	\$80.00	\$1,865.60
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	4	\$83.00	\$332.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$190,827.31
<i>15% Contingency</i>					<i>\$28,624.10</i>

Total \$219,451.41
MassDOT Complete Streets Funding Request **\$219,451.41**

Notes: (2) Existing Crosswalks Across Roadway

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 11

Project Name: Eddy Street/John Scott Boulevard Bicycle Improvements

Description: Restripe roadway to provide 5 foot wide bicycle lanes with MUTCD approved bicycle lane pavement markings and bicycle lane signage (R3-17). Install radar speed feedback signs.

Extent: Route 140 to South Worcester Street

Total Length: 18,304 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00
Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	0	\$34.78	\$0.00
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	0	\$4.00	\$0.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00
Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
854.10	Pavement Marking Removal	SF	36,608	\$1.50	\$54,912.00
866.106	6 Inch Reflectorized White Line (Thermoplastic)	FT	36,608	\$0.97	\$35,509.76
--	Pavement Markings - Bike Lane	Each	183	\$180.00	\$32,947.20
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00
Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	0	\$45.00	\$0.00
420.00	Hot Mix Asphalt Base Course (2")	TON	0	\$95.00	\$0.00
460.00	Hot Mix Asphalt Top Course (1")	TON	0	\$90.00	\$0.00
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	0	\$42.25	\$0.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00
Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00
Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	0	\$45.00	\$0.00
765.00	Seeding	SY	0	\$2.00	\$0.00
Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	183	\$80.00	\$14,643.20
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	4	\$7,000.00	\$28,000.00
				Subtotal	\$166,012.16
				15% Contingency	\$24,901.82
				Total	\$190,913.98
				MassDOT Complete Streets Funding Request	\$190,913.98

Notes: Crosswalks N/A

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 12

Project Name: North Worcester Street Pedestrian Improvements (Phase I)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (West Main Street to Walker Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: West Main Street to Walker Street

Total Length: 5,727 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,644	\$34.78	\$57,173.49
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	7,636	\$4.00	\$30,544.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	8	\$1,440.00	\$11,520.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	6	\$10,000.00	\$60,000.00
715.10	Mailbox Removed & Reset	Each	6	\$169.33	\$1,015.98

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	955	\$45.00	\$42,952.50
420.00	Hot Mix Asphalt Base Course (2")	TON	390	\$95.00	\$37,078.03
460.00	Hot Mix Asphalt Top Course (1")	TON	193	\$90.00	\$17,376.43
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	5,727	\$42.25	\$241,965.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	3	\$370.00	\$1,110.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	212	\$45.00	\$9,545.00
765.00	Seeding	SY	636	\$2.00	\$1,272.67

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	6	\$108.84	\$653.04
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$516,246.89**
 15% Contingency \$77,437.03

Total **\$593,683.92**
MassDOT Complete Streets Funding Request **\$593,683.92**

Notes: (1) Crosswalk: Pleasant Street

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 13

Project Name: South Worcester Street Bicycle & Pedestrian Improvements (Phase III)

Description: Replace existing sidewalk with new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Dean Street to Barrows Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Dean Street to Barrows Street

Total Length: 1,039 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	298	\$34.78	\$10,372.49
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	1,385	\$4.00	\$5,541.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	4	\$169.33	\$677.32

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	10	\$180.00	\$1,870.20

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	173	\$45.00	\$7,792.50
420.00	Hot Mix Asphalt Base Course (2")	TON	71	\$95.00	\$6,726.75
460.00	Hot Mix Asphalt Top Course (1")	TON	35	\$90.00	\$3,152.46
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	1,039	\$42.25	\$43,897.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	13	\$40.00	\$520.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	1	\$370.00	\$370.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	10	\$100.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	38	\$45.00	\$1,731.67
765.00	Seeding	SY	115	\$2.00	\$230.89

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	10	\$80.00	\$831.20
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$85,714.55**
15% Contingency **\$12,857.18**

Total **\$98,571.73**
MassDOT Complete Streets Funding Request **\$98,571.73**

Notes: (1) Crosswalk - Barrows

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 14

Project Name: Elm Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (East Main Street to Reservoir Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: East Main Street to Reservoir Street

Total Length: 4,472 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,284	\$34.78	\$44,644.64
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	5,963	\$4.00	\$23,850.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	30	\$1,440.00	\$43,200.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	4	\$10,000.00	\$40,000.00
715.10	Mailbox Removed & Reset	Each	1	\$169.33	\$169.33

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	745	\$45.00	\$33,540.00
420.00	Hot Mix Asphalt Base Course (2")	TON	305	\$95.00	\$28,952.85
460.00	Hot Mix Asphalt Top Course (1")	TON	151	\$90.00	\$13,568.61
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	4,472	\$42.25	\$188,942.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	52	\$40.00	\$2,080.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	40	\$100.00	\$4,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	2	\$1,000.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	166	\$45.00	\$7,453.33
765.00	Seeding	SY	497	\$2.00	\$993.78

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$433,612.88**
 15% Contingency \$65,041.93

Total **\$498,654.81**
MassDOT Complete Streets Funding Request **\$498,654.81**

Notes: (2) Crosswalks: Miller Terrace and Cross Street

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 15

Project Name: Olympia Street Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Power Street to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Power Street to West Main Street

Total Length: 1,300 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	373	\$34.78	\$12,978.09
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	1,733	\$4.00	\$6,933.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	4	\$1,440.00	\$5,760.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	7	\$10,000.00	\$70,000.00
715.10	Mailbox Removed & Reset	Each	6	\$169.33	\$1,015.98

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	13	\$180.00	\$2,340.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	217	\$45.00	\$9,750.00
420.00	Hot Mix Asphalt Base Course (2")	TON	89	\$95.00	\$8,416.53
460.00	Hot Mix Asphalt Top Course (1")	TON	44	\$90.00	\$3,944.36
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	1,300	\$42.25	\$54,925.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	48	\$45.00	\$2,166.67
765.00	Seeding	SY	144	\$2.00	\$288.89

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	13	\$80.00	\$1,040.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$183,816.53**
 15% Contingency \$27,572.48

Total **\$211,389.01**
MassDOT Complete Streets Funding Request **\$211,389.01**

Notes: (1) Crosswalk: Tood Drive

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 16

Project Name: Power Street Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (South Worcester Street to West Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: South Worcester Street to West Main Street

Total Length: 3,761 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,080	\$34.78	\$37,546.62
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	5,015	\$4.00	\$20,058.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	12	\$1,440.00	\$17,280.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	13	\$10,000.00	\$130,000.00
715.10	Mailbox Removed & Reset	Each	2	\$169.33	\$338.66

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	38	\$180.00	\$6,769.80

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	627	\$45.00	\$28,207.50
420.00	Hot Mix Asphalt Base Course (2")	TON	256	\$95.00	\$24,349.65
460.00	Hot Mix Asphalt Top Course (1")	TON	127	\$90.00	\$11,411.34
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,761	\$42.25	\$158,902.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	139	\$45.00	\$6,268.33
765.00	Seeding	SY	418	\$2.00	\$835.78

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	11	\$108.84	\$1,197.24
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	38	\$80.00	\$3,008.80
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$450,954.65**
15% Contingency *\$67,643.20*

Total **\$518,597.84**
MassDOT Complete Streets Funding Request **\$518,597.84**

Notes: (1) Crosswalk: Peter Street

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 17

Project Name: South Worcester Street Bicycle & Pedestrian Improvements (Phase II)

Description: Replace the existing sidewalk with a new 5 foot wide asphalt sidewalk with granite curbing (where necessary) on the right side of the road (Power Street to John Scott Boulevard). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (Barrows Street to John Scott Boulevard).

Extent: Barrows Street to John Scott Boulevard

Total Length: 5,015 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	800	\$34.78	\$27,813.05
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,715	\$4.00	\$14,858.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	3	\$169.33	\$507.99

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	50	\$180.00	\$9,027.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	464	\$45.00	\$20,895.00
420.00	Hot Mix Asphalt Base Course (2")	TON	190	\$95.00	\$18,037.26
460.00	Hot Mix Asphalt Top Course (1")	TON	94	\$90.00	\$8,453.07
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,786	\$42.25	\$117,708.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	3	\$370.00	\$1,110.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	103	\$45.00	\$4,643.33
765.00	Seeding	SY	310	\$2.00	\$619.11

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	50	\$80.00	\$4,012.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$227,793.82**
 15% Contingency \$34,169.07

Total \$261,962.90
MassDOT Complete Streets Funding Request **\$261,962.90**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 18

Project Name: Walker Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (North Worcester Street to Oak Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: North Worcester Street to Oak Street

Total Length: 4,154 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,192	\$34.78	\$41,470.00
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	5,539	\$4.00	\$22,154.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	69	\$1,440.00	\$99,360.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	15	\$10,000.00	\$150,000.00
715.10	Mailbox Removed & Reset	Each	24	\$169.33	\$4,063.92

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	692	\$45.00	\$31,155.00
420.00	Hot Mix Asphalt Base Course (2")	TON	283	\$95.00	\$26,894.03
460.00	Hot Mix Asphalt Top Course (1")	TON	140	\$90.00	\$12,603.76
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	4,154	\$42.25	\$175,506.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	52	\$40.00	\$2,080.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	40	\$100.00	\$4,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	2	\$1,000.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	154	\$45.00	\$6,923.33
765.00	Seeding	SY	462	\$2.00	\$923.11

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$579,243.16**
 15% Contingency **\$86,886.47**

Total **\$666,129.63**
MassDOT Complete Streets Funding Request **\$666,129.63**

Notes: (2) Crosswalks: Anna Way and Taylor Court

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 19

Project Name: Cobb Street Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Reservoir Street to North Washington Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Reservoir Street to North Washington Street

Total Length: 2,916 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	837	\$34.78	\$29,110.86
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,888	\$4.00	\$15,552.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	20	\$1,440.00	\$28,800.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	1	\$10,000.00	\$10,000.00
715.10	Mailbox Removed & Reset	Each	31	\$169.33	\$5,249.23

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	29	\$180.00	\$5,248.80

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	486	\$45.00	\$21,870.00
420.00	Hot Mix Asphalt Base Course (2")	TON	199	\$95.00	\$18,878.91
460.00	Hot Mix Asphalt Top Course (1")	TON	98	\$90.00	\$8,847.51
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,916	\$42.25	\$123,201.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	3	\$370.00	\$1,110.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	108	\$45.00	\$4,860.00
765.00	Seeding	SY	324	\$2.00	\$648.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	29	\$80.00	\$2,332.80
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$279,857.95**
 15% Contingency **\$41,978.69**

Total **\$321,836.64**
MassDOT Complete Streets Funding Request **\$321,836.64**

Notes: (1) Crosswalk: Sachem Road

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 20

Project Name: Newcomb Street Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (North Washington Street to #30 Newcomb Street & Jacobs Way to Newland Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: North Washington Street to Newland Street

Total Length: 6,333 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,818	\$34.78	\$63,223.28
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	8,444	\$4.00	\$33,776.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	20	\$1,440.00	\$28,800.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	7	\$10,000.00	\$70,000.00
715.10	Mailbox Removed & Reset	Each	25	\$169.33	\$4,233.25

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	63	\$180.00	\$11,399.40

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	1,056	\$45.00	\$47,497.50
420.00	Hot Mix Asphalt Base Course (2")	TON	432	\$95.00	\$41,001.43
460.00	Hot Mix Asphalt Top Course (1")	TON	214	\$90.00	\$19,215.11
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	6,333	\$42.25	\$267,569.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	104	\$40.00	\$4,160.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	1	\$370.00	\$370.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	80	\$100.00	\$8,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	4	\$1,000.00	\$4,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	235	\$45.00	\$10,555.00
765.00	Seeding	SY	704	\$2.00	\$1,407.33

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	63	\$80.00	\$5,066.40
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$620,491.63**
 15% Contingency **\$93,073.74**

Total **\$713,565.37**
MassDOT Complete Streets Funding Request **\$713,565.37**

Notes: (4) Crosswalks: Marchand Way, Wetherell Way, Bryson Drive, and Pine Needle Drive

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 21

Project Name: Newland Street Bicycle & Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (East Main Street to Newcomb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (East Main Street to Mansfield Town Line).

Extent: East Main Street to Mansfield Town Line

Total Length: 7,021 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	2,015	\$34.78	\$70,091.68
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	9,361	\$4.00	\$37,445.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	1	\$10,000.00	\$10,000.00
715.10	Mailbox Removed & Reset	Each	1	\$169.33	\$169.33

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	70	\$180.00	\$12,637.80

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	1,170	\$45.00	\$52,657.50
420.00	Hot Mix Asphalt Base Course (2")	TON	478	\$95.00	\$45,455.71
460.00	Hot Mix Asphalt Top Course (1")	TON	237	\$90.00	\$21,302.59
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	7,021	\$42.25	\$296,637.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	260	\$45.00	\$11,701.67
765.00	Seeding	SY	780	\$2.00	\$1,560.22

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	70	\$80.00	\$5,616.80
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$565,602.41
<i>15% Contingency</i>					<i>\$84,840.36</i>

Total \$650,442.77
MassDOT Complete Streets Funding Request **\$650,442.77**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 22

Project Name: North Washington Street Pedestrian Improvements (Phase I)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (East Main Street to Newcomb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: East Main Street to Newcomb Street

Total Length: 5,752 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,651	\$34.78	\$57,423.07
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	7,669	\$4.00	\$30,677.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	24	\$1,440.00	\$34,560.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	14	\$10,000.00	\$140,000.00
715.10	Mailbox Removed & Reset	Each	35	\$169.33	\$5,926.55

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	959	\$45.00	\$43,140.00
420.00	Hot Mix Asphalt Base Course (2")	TON	392	\$95.00	\$37,239.89
460.00	Hot Mix Asphalt Top Course (1")	TON	194	\$90.00	\$17,452.29
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	5,752	\$42.25	\$243,022.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	104	\$40.00	\$4,160.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	80	\$100.00	\$8,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	4	\$1,000.00	\$4,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	213	\$45.00	\$9,586.67
765.00	Seeding	SY	639	\$2.00	\$1,278.22

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	4	\$108.84	\$435.36
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$637,641.37**
 15% Contingency \$95,646.21

Total **\$733,287.58**
MassDOT Complete Streets Funding Request **\$733,287.58**

Notes: (4) Crosswalks: Johnson Drive, Cherry Tree Drive, Croos Street, Old Meetinghouse Green

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 23

Project Name: North Washington Street Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Newcomb Street to Cobb Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Newcomb Street to Cobb Street

Total Length: 2,222 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	638	\$34.78	\$22,182.56
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	2,963	\$4.00	\$11,850.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	6	\$1,440.00	\$8,640.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	8	\$10,000.00	\$80,000.00
715.10	Mailbox Removed & Reset	Each	16	\$169.33	\$2,709.28

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	370	\$45.00	\$16,665.00
420.00	Hot Mix Asphalt Base Course (2")	TON	151	\$95.00	\$14,385.78
460.00	Hot Mix Asphalt Top Course (1")	TON	75	\$90.00	\$6,741.83
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,222	\$42.25	\$93,879.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	82	\$45.00	\$3,703.33
765.00	Seeding	SY	247	\$2.00	\$493.78

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$261,578.24**
15% Contingency \$39,236.74

Total **\$300,814.98**
MassDOT Complete Streets Funding Request **\$300,814.98**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 24

Project Name: South Worcester Street Bicycle & Pedestrian Improvements (Phase IV)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Parker Court to #285 South Worcester Street) and on the right side of the road (#285 South Worcester Street to Dean Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: Parker Court to Dean Street

Total Length: 3,843 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,103	\$34.78	\$38,365.24
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	5,124	\$4.00	\$20,496.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	12	\$1,440.00	\$17,280.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	7	\$10,000.00	\$70,000.00
715.10	Mailbox Removed & Reset	Each	12	\$169.33	\$2,031.96

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	38	\$180.00	\$6,917.40

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	641	\$45.00	\$28,822.50
420.00	Hot Mix Asphalt Base Course (2")	TON	262	\$95.00	\$24,880.54
460.00	Hot Mix Asphalt Top Course (1")	TON	130	\$90.00	\$11,660.14
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,843	\$42.25	\$162,366.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	142	\$45.00	\$6,405.00
765.00	Seeding	SY	427	\$2.00	\$854.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	38	\$80.00	\$3,074.40
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$394,111.61
<i>15% Contingency</i>					<i>\$59,116.74</i>

Total \$453,228.36
MassDOT Complete Streets Funding Request **\$453,228.36**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 25

Project Name: South Worcester Street Bicycle & Pedestrian Improvements (Phase V)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Woodward Street to Parker Court). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (John Scott Boulevard to Parker Court).

Extent: John Scott Boulevard to Parker Court

Total Length: 6,091 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,449	\$34.78	\$50,384.95
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	6,729	\$4.00	\$26,917.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	50	\$1,440.00	\$72,000.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	2	\$10,000.00	\$20,000.00
715.10	Mailbox Removed & Reset	Each	20	\$169.33	\$3,386.60

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	61	\$180.00	\$10,963.80

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	841	\$45.00	\$37,852.50
420.00	Hot Mix Asphalt Base Course (2")	TON	344	\$95.00	\$32,675.54
460.00	Hot Mix Asphalt Top Course (1")	TON	170	\$90.00	\$15,313.23
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	6,091	\$42.25	\$257,344.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	187	\$45.00	\$8,411.67
765.00	Seeding	SY	561	\$2.00	\$1,121.56

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	61	\$80.00	\$4,872.80
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$546,133.56
<i>15% Contingency</i>					<i>\$81,920.03</i>

Total \$628,053.60
MassDOT Complete Streets Funding Request **\$628,053.60**

Notes: (1) Crosswalkj: Gaffney Farm Drive

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 26

Project Name: Barrows Street Pedestrian Improvements (Phase I)

Description: Replace existing sidewalk with new 5 foot wide asphalt sidewalks with granite curbing on the right side of the road (South Worcester Street to #132 Barrows Street) and install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (#118 Barrows Street to Fordham Drive). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: South Worcester Street to Fordham Drive

Total Length: 2,696 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	774	\$34.78	\$26,914.57
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,595	\$4.00	\$14,378.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	15	\$1,440.00	\$21,600.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	6	\$10,000.00	\$60,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	449	\$45.00	\$20,220.00
420.00	Hot Mix Asphalt Base Course (2")	TON	184	\$95.00	\$17,454.58
460.00	Hot Mix Asphalt Top Course (1")	TON	91	\$90.00	\$8,180.00
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,696	\$42.25	\$113,906.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	3	\$370.00	\$1,110.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	100	\$45.00	\$4,493.33
765.00	Seeding	SY	300	\$2.00	\$599.11

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$288,856.26
<i>15% Contingency</i>					<i>\$43,328.44</i>

Total \$332,184.70
MassDOT Complete Streets Funding Request **\$332,184.70**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 27

Project Name: Dean Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Parker Street to Harvey Street) and replace the existing sidewalk with a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Harvey Street to South Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Parker Street to South Worcester Street

Total Length: 3,607 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,035	\$34.78	\$36,009.22
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	4,809	\$4.00	\$19,237.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	8	\$1,440.00	\$11,520.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	1	\$10,000.00	\$10,000.00
715.10	Mailbox Removed & Reset	Each	9	\$169.33	\$1,523.97

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	601	\$45.00	\$27,052.50
420.00	Hot Mix Asphalt Base Course (2")	TON	246	\$95.00	\$23,352.62
460.00	Hot Mix Asphalt Top Course (1")	TON	122	\$90.00	\$10,944.09
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,607	\$42.25	\$152,395.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	134	\$45.00	\$6,011.67
765.00	Seeding	SY	401	\$2.00	\$801.56

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$302,997.54**
 15% Contingency \$45,449.63

Total **\$348,447.17**
MassDOT Complete Streets Funding Request **\$348,447.17**

Notes: (1) Crosswalk: John Scott Boulevard

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 28

Project Name: Harvey Street Pedestrian Improvements (Phase I)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Maple Street to John Scott Boulevard). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Maple Street to John Scott Boulevard

Total Length: 3,762 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,080	\$34.78	\$37,556.60
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	5,016	\$4.00	\$20,064.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	35	\$1,440.00	\$50,400.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	6	\$10,000.00	\$60,000.00
715.10	Mailbox Removed & Reset	Each	1	\$169.33	\$169.33

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	627	\$45.00	\$28,215.00
420.00	Hot Mix Asphalt Base Course (2")	TON	256	\$95.00	\$24,356.13
460.00	Hot Mix Asphalt Top Course (1")	TON	127	\$90.00	\$11,414.38
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,762	\$42.25	\$158,944.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	139	\$45.00	\$6,270.00
765.00	Seeding	SY	418	\$2.00	\$836.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$399,292.46**
 15% Contingency **\$59,893.87**

Total **\$459,186.33**
MassDOT Complete Streets Funding Request **\$459,186.33**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 29

Project Name: Maple Street Pedestrian Improvements (Phase I)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Harvey Street to Goldenwood Drive). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Harvey Street to Goldenwood Drive

Total Length: 1,442 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	414	\$34.78	\$14,395.70
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	1,923	\$4.00	\$7,690.67
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	17	\$1,440.00	\$24,480.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	4	\$169.33	\$677.32

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	240	\$45.00	\$10,815.00
420.00	Hot Mix Asphalt Base Course (2")	TON	98	\$95.00	\$9,335.87
460.00	Hot Mix Asphalt Top Course (1")	TON	49	\$90.00	\$4,375.21
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	1,442	\$42.25	\$60,924.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	53	\$45.00	\$2,403.33
765.00	Seeding	SY	160	\$2.00	\$320.44

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$135,418.04
<i>15% Contingency</i>					<i>\$20,312.71</i>

Total \$155,730.75
MassDOT Complete Streets Funding Request **\$155,730.75**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 30

Project Name: North Worcester Street Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Walker Street to Mansfield Town Line). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Walker Street to Mansfield Town Line

Total Length: 6,162 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	1,769	\$34.78	\$61,516.16
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	8,216	\$4.00	\$32,864.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	37	\$1,440.00	\$53,280.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	8	\$10,000.00	\$80,000.00
715.10	Mailbox Removed & Reset	Each	40	\$169.33	\$6,773.20

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	1,027	\$45.00	\$46,215.00
420.00	Hot Mix Asphalt Base Course (2")	TON	420	\$95.00	\$39,894.33
460.00	Hot Mix Asphalt Top Course (1")	TON	208	\$90.00	\$18,696.28
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	6,162	\$42.25	\$260,344.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	130	\$40.00	\$5,200.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	4	\$370.00	\$1,480.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	100	\$100.00	\$10,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	5	\$1,000.00	\$5,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	228	\$45.00	\$10,270.00
765.00	Seeding	SY	685	\$2.00	\$1,369.33

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	5	\$108.84	\$544.20
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$633,447.00**
 15% Contingency \$95,017.05

Total **\$728,464.05**
MassDOT Complete Streets Funding Request **\$728,464.05**

Notes: (5) Crosswalks: Village Way, John F. Kennedy Drive, Eisenhower Drive, Sanlin Street, and Richardson Avenue

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 31

Project Name: Plain Street Bicycle & Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (South Washington Street to #126 Plain Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11) (South Washington Street to #160 Plain Street).

Extent: South Washington Street to #160 Plain Street

Total Length: 3,865 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	640	\$34.78	\$22,262.42
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	2,973	\$4.00	\$11,893.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	11	\$1,440.00	\$15,840.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	8	\$10,000.00	\$80,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	39	\$180.00	\$6,957.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	372	\$45.00	\$16,725.00
420.00	Hot Mix Asphalt Base Course (2")	TON	152	\$95.00	\$14,437.58
460.00	Hot Mix Asphalt Top Course (1")	TON	75	\$90.00	\$6,766.10
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,865	\$42.25	\$163,296.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	83	\$45.00	\$3,716.67
765.00	Seeding	SY	248	\$2.00	\$495.56

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	39	\$80.00	\$3,092.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$350,479.58**
15% Contingency *\$52,571.94*

Total **\$403,051.52**
MassDOT Complete Streets Funding Request **\$403,051.52**

Notes: (1) Crosswalk: Bartely Drive

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 32

Project Name: Plain Street Bicycle & Pedestrian Improvements (Phase III)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (#160 Plain Street to Burt Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets. Add sharrows and bicycle signage (R4-11).

Extent: #160 Plain Street to Burt Street

Total Length: 3,255 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	934	\$34.78	\$32,495.15
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	4,340	\$4.00	\$17,360.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	7	\$1,440.00	\$10,080.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	11	\$10,000.00	\$110,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	33	\$180.00	\$5,859.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	543	\$45.00	\$24,412.50
420.00	Hot Mix Asphalt Base Course (2")	TON	222	\$95.00	\$21,073.68
460.00	Hot Mix Asphalt Top Course (1")	TON	110	\$90.00	\$9,876.08
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,255	\$42.25	\$137,523.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	52	\$40.00	\$2,080.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	7	\$370.00	\$2,590.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	40	\$100.00	\$4,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	2	\$1,000.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	121	\$45.00	\$5,425.00
765.00	Seeding	SY	362	\$2.00	\$723.33

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	33	\$80.00	\$2,604.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$388,211.33**
 15% Contingency \$58,231.70

Total **\$446,443.03**
MassDOT Complete Streets Funding Request **\$446,443.03**

Notes: (2) Intersections: Boutas Drive and Leonard Street

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 33
Project Name: Plain Street Bicycle Improvements

Description: Add sharrows and bicycle signage (R4-11).

Extent: Burt Street to Bay Road

Total Length: 3,009 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	0	\$34.78	\$0.00
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	0	\$4.00	\$0.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	30	\$180.00	\$5,416.20

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	0	\$45.00	\$0.00
420.00	Hot Mix Asphalt Base Course (2")	TON	0	\$95.00	\$0.00
460.00	Hot Mix Asphalt Top Course (1")	TON	0	\$90.00	\$0.00
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	0	\$42.25	\$0.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	0	\$45.00	\$0.00
765.00	Seeding	SY	0	\$2.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	30	\$80.00	\$2,407.20
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$7,823.40**
15% Contingency \$1,173.51

Total **\$8,996.91**
MassDOT Complete Streets Funding Request **\$8,996.91**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 34

Project Name: Pleasant Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Attleboro City Line to North Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Attleboro City Line to North Worcester Street

Total Length: 2,472 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00
Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	710	\$34.78	\$24,678.34
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,296	\$4.00	\$13,184.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	10	\$1,440.00	\$14,400.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	9	\$169.33	\$1,523.97
Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00
Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	412	\$45.00	\$18,540.00
420.00	Hot Mix Asphalt Base Course (2")	TON	168	\$95.00	\$16,004.35
460.00	Hot Mix Asphalt Top Course (1")	TON	83	\$90.00	\$7,500.36
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,472	\$42.25	\$104,442.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00
Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00
Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	92	\$45.00	\$4,120.00
765.00	Seeding	SY	275	\$2.00	\$549.33
Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	5	\$108.84	\$544.20
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00
Subtotal					\$206,226.55
<i>15% Contingency</i>					<i>\$30,933.98</i>
Total					\$237,160.53
MassDOT Complete Streets Funding Request					\$237,160.53

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 35

Project Name: Sturdy Street & Union Road Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Sturdy Street from John Scott Boulevard to Union Road) and a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Union Road from Sturdy Street to South Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: John Scott Boulevard to South Worcester Street

Total Length: 2,286 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	656	\$34.78	\$22,821.48
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,048	\$4.00	\$12,192.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	10	\$1,440.00	\$14,400.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	1	\$10,000.00	\$10,000.00
715.10	Mailbox Removed & Reset	Each	11	\$169.33	\$1,862.63

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	381	\$45.00	\$17,145.00
420.00	Hot Mix Asphalt Base Course (2")	TON	156	\$95.00	\$14,800.14
460.00	Hot Mix Asphalt Top Course (1")	TON	77	\$90.00	\$6,936.01
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,286	\$42.25	\$96,583.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	2	\$370.00	\$740.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	85	\$45.00	\$3,810.00
765.00	Seeding	SY	254	\$2.00	\$508.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	5	\$108.84	\$544.20
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$206,382.95
<i>15% Contingency</i>					<i>\$30,957.44</i>

Total \$237,340.39
MassDOT Complete Streets Funding Request **\$237,340.39**

Notes: (1) Crosswalk: Right side of Union Road crossing Sturdy Street

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 36

Project Name: Bay Road Bicycle Improvements

Description: Add sharrows and bicycle signage (R4-11). Install radar speed feedback signs.

Extent: Taunton City Line to Easton Town Line

Total Length: 11,527 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	0	\$34.78	\$0.00
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	0	\$4.00	\$0.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	0	\$1,440.00	\$0.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	115	\$180.00	\$20,748.60

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	0	\$45.00	\$0.00
420.00	Hot Mix Asphalt Base Course (2")	TON	0	\$95.00	\$0.00
460.00	Hot Mix Asphalt Top Course (1")	TON	0	\$90.00	\$0.00
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	0	\$42.25	\$0.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	0	\$45.00	\$0.00
765.00	Seeding	SY	0	\$2.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	0	\$108.84	\$0.00
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	115	\$80.00	\$9,221.60
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	2	\$7,000.00	\$14,000.00

Subtotal **\$43,970.20**
 15% Contingency \$6,595.53

Total **\$50,565.73**
MassDOT Complete Streets Funding Request **\$50,565.73**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 37

Project Name: Harvey Street Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (John Scott Boulevard to Dean Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: John Scott Boulevard to Dean Street

Total Length: 2,187 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	628	\$34.78	\$21,833.15
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	2,916	\$4.00	\$11,664.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	47	\$1,440.00	\$67,680.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	0	\$10,000.00	\$0.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	365	\$45.00	\$16,402.50
420.00	Hot Mix Asphalt Base Course (2")	TON	149	\$95.00	\$14,159.18
460.00	Hot Mix Asphalt Top Course (1")	TON	74	\$90.00	\$6,635.63
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,187	\$42.25	\$92,400.75
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	1	\$370.00	\$370.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	81	\$45.00	\$3,645.00
765.00	Seeding	SY	243	\$2.00	\$486.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$235,385.05
<i>15% Contingency</i>					<i>\$35,307.76</i>

Total \$270,692.81
MassDOT Complete Streets Funding Request **\$270,692.81**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 38

Project Name: Maple Street Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Goldenwood Drive to John Scott Boulevard). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Goldenwood Drive to John Scott Boulevard

Total Length: 2,529 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	726	\$34.78	\$25,247.38
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	3,372	\$4.00	\$13,488.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	23	\$1,440.00	\$33,120.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	2	\$10,000.00	\$20,000.00
715.10	Mailbox Removed & Reset	Each	9	\$169.33	\$1,523.97

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	422	\$45.00	\$18,967.50
420.00	Hot Mix Asphalt Base Course (2")	TON	172	\$95.00	\$16,373.38
460.00	Hot Mix Asphalt Top Course (1")	TON	85	\$90.00	\$7,673.30
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,529	\$42.25	\$106,850.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	1	\$370.00	\$370.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	94	\$45.00	\$4,215.00
765.00	Seeding	SY	281	\$2.00	\$562.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	4	\$108.84	\$435.36
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$248,826.14**
 15% Contingency \$37,323.92

Total **\$286,150.06**
MassDOT Complete Streets Funding Request **\$286,150.06**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 39

Project Name: Parker Street/Parker Court Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Dean Street to South Worcester Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Dean Street to South Worcester Street

Total Length: 2,197 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	631	\$34.78	\$21,932.98
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	2,929	\$4.00	\$11,717.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	2	\$1,440.00	\$2,880.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	10	\$10,000.00	\$100,000.00
715.10	Mailbox Removed & Reset	Each	2	\$169.33	\$338.66

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	366	\$45.00	\$16,477.50
420.00	Hot Mix Asphalt Base Course (2")	TON	150	\$95.00	\$14,223.93
460.00	Hot Mix Asphalt Top Course (1")	TON	74	\$90.00	\$6,665.97
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	2,197	\$42.25	\$92,823.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	26	\$40.00	\$1,040.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	0	\$370.00	\$0.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	1	\$1,000.00	\$1,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	81	\$45.00	\$3,661.67
765.00	Seeding	SY	244	\$2.00	\$488.22

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	2	\$108.84	\$217.68
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$275,467.19**
 15% Contingency **\$41,320.08**

Total **\$316,787.27**
MassDOT Complete Streets Funding Request **\$316,787.27**

Notes: (1) Crosswalk: Crossing John Scott Boulevard to Parker Court

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 40

Project Name: Woodward Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (South Worcester Street to Taunton Avenue). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: South Worcester Street to Taunton Avenue

Total Length: 3,274 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	940	\$34.78	\$32,684.83
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	4,365	\$4.00	\$17,461.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	24	\$1,440.00	\$34,560.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	3	\$10,000.00	\$30,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	546	\$45.00	\$24,555.00
420.00	Hot Mix Asphalt Base Course (2")	TON	223	\$95.00	\$21,196.69
460.00	Hot Mix Asphalt Top Course (1")	TON	110	\$90.00	\$9,933.73
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,274	\$42.25	\$138,326.50
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	1	\$370.00	\$370.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	121	\$45.00	\$5,456.67
765.00	Seeding	SY	364	\$2.00	\$727.56

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	8	\$108.84	\$870.72
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$316,143.02**
 15% Contingency \$47,421.45

Total **\$363,564.48**
MassDOT Complete Streets Funding Request **\$363,564.48**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 41

Project Name: Barrows Street Pedestrian Improvements (Phase II)

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the right side of the road (Fordham Drive to Taunton Avenue). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Fordham Drive to Taunton Avenue

Total Length: 3,409 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	979	\$34.78	\$34,032.55
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	4,545	\$4.00	\$18,181.33
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	4	\$1,440.00	\$5,760.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	19	\$10,000.00	\$190,000.00
715.10	Mailbox Removed & Reset	Each	0	\$169.33	\$0.00

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	568	\$45.00	\$25,567.50
420.00	Hot Mix Asphalt Base Course (2")	TON	232	\$95.00	\$22,070.72
460.00	Hot Mix Asphalt Top Course (1")	TON	115	\$90.00	\$10,343.33
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	3,409	\$42.25	\$144,030.25
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	0	\$40.00	\$0.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	1	\$370.00	\$370.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	0	\$100.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	0	\$1,000.00	\$0.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	126	\$45.00	\$5,681.67
765.00	Seeding	SY	379	\$2.00	\$757.56

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	1	\$108.84	\$108.84
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal					\$456,903.75
<i>15% Contingency</i>					<i>\$68,535.56</i>

Total \$525,439.31
MassDOT Complete Streets Funding Request **\$525,439.31**

Notes: (0) Crosswalks

Town of Norton
Complete Streets Prioritization Plan - Project Cost Estimates

Project Number: 42

Project Name: Burt Street Pedestrian Improvements

Description: Install a new 5 foot wide asphalt sidewalk with granite curbing on the left side of the road (Plain Street to East Main Street). Add ADA/AAB compliant curb ramps with tactile warning panels and high visibility crosswalks at all intersecting streets.

Extent: Plain Street to East Main Street

Total Length: 7,812 ft

Item #	Description - General Items	Unit	Quantity	Unit Price	Total Cost
--	Survey Work & Design/Engineering	Allowance	0	\$10,000.00	\$0.00
--	Permitting	Allowance	0	\$0.00	\$0.00
--	ROW Acquisition	Allowance	0	\$10,000.00	\$0.00
--	Erosion Control	Allowance	0	\$10,000.00	\$0.00
--	Police Detail (\$55/hour @ 4hr shift)	Days	0	\$220.00	\$0.00

Item #	Description - Site Prep & Demolition	Unit	Quantity	Unit Price	Total Cost
120.10	Unclassified Excavation	CY	2,242	\$34.78	\$77,988.35
127.00	Concrete Excavation	CY	0	\$180.00	\$0.00
170.62	Fine Grading and Compacting	SY	10,416	\$4.00	\$41,664.00
103.00	Tree Removed - Diameter Under 24"	Each	0	\$1,000.00	\$0.00
104.00	Tree Removed - Diameter Over 24"	Each	40	\$1,440.00	\$57,600.00
105.00	Stump Removed	Each	0	\$500.00	\$0.00
--	Utility Pole Relocation	Each	23	\$10,000.00	\$230,000.00
715.10	Mailbox Removed & Reset	Each	1	\$169.33	\$169.33

Item #	Description - Bicycle Facilities	Unit	Quantity	Unit Price	Total Cost
415.00	Pavement MicroMilling	SY	0	\$5.00	\$0.00
--	Pavement Markings - Bike Lane	Each	0	\$180.00	\$0.00
--	Pavement Markings - Sharrow	Each	0	\$180.00	\$0.00

Item #	Description - Sidewalk	Unit	Quantity	Unit Price	Total Cost
151.01	Gravel Borrow - Type C	CY	1,302	\$45.00	\$58,590.00
420.00	Hot Mix Asphalt Base Course (2")	TON	532	\$95.00	\$50,576.84
460.00	Hot Mix Asphalt Top Course (1")	TON	263	\$90.00	\$23,702.58
701.00	Cement Concrete Sidewalk (4")	SY	0	\$55.00	\$0.00
504.00	Granite Curb Type VA4 - Straight	FT	7,812	\$42.25	\$330,057.00
504.10	Granite Curb Type VA4 - Curved	FT	0	\$44.00	\$0.00
509.00	Granite Transition Curb for Wheelchair Ramps - Straight	FT	78	\$40.00	\$3,120.00
509.10	Granite Transition Curb for Wheelchair Ramps - Curved	FT	0	\$45.00	\$0.00
514.00	Granite Curb Inlet - Straight	Each	4	\$370.00	\$1,480.00
516.00	Granite Curb Corner Type A	Each	0	\$252.50	\$0.00
520.00	Concrete Curb Type VA	FT	0	\$32.00	\$0.00
570.30	Hot Mix Asphalt Curb Type 3	FT	0	\$18.50	\$0.00
701.20	Cement Concrete Wheelchair Ramp	SY	60	\$100.00	\$6,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
--	High Visibility "Ladder" or "Zebra" Type	Each	3	\$1,000.00	\$3,000.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
751.00	Loam Borrow	CY	289	\$45.00	\$13,020.00
765.00	Seeding	SY	868	\$2.00	\$1,736.00

Item #	Description	Unit	Quantity	Unit Price	Total Cost
874.20	Traffic Sign Removed & Reset	Each	3	\$108.84	\$326.52
--	Bike Lane Sign (R3-17) Assembly	Each	0	\$80.00	\$0.00
--	Bicycles May Use Full Lane Sign (R4-11) Assembly	Each	0	\$80.00	\$0.00
--	Pedestrian Crossing Signage Set (W11-2 & W16-7p)	Each	0	\$83.00	\$0.00
--	In-Street Pedestrian Crossing (R1-6 or R1-6a) Sign Assembly	Each	0	\$400.00	\$0.00
--	Rapid Rectangular Flashing Beacons (RRFB) (Set of 2)	Each	0	\$10,000.00	\$0.00
--	Radar Speed Feedback Sign	Each	0	\$7,000.00	\$0.00

Subtotal **\$899,030.63**
 15% Contingency **\$134,854.59**

Total **\$1,033,885.22**
MassDOT Complete Streets Funding Request **\$1,033,885.22**

Notes: (3) Crosswalks: Janet Street, Downing Drive-Both Entrances