

Town of Hanover **Complete Streets Prioritization Plan**



HOWARD STEIN HUDSON

Engineers + Planners

What is a Complete Street?

Engineers + Planners

- A **Complete Street** is one that provides safe and accessible options for all travel modes – walking, biking, transit, and vehicles – for people of all ages and abilities
- Improvements may be large scale, such as corridor-wide, or focused on the needs of a single mode at a single location

Washington St



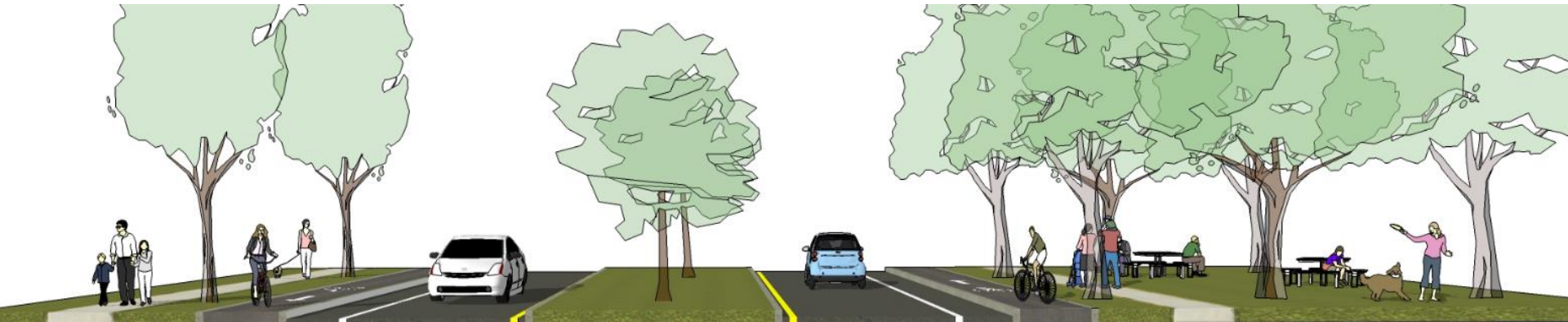
Cedar St near Hanover High School



CS Funding Program Snapshot

Engineers + Planners

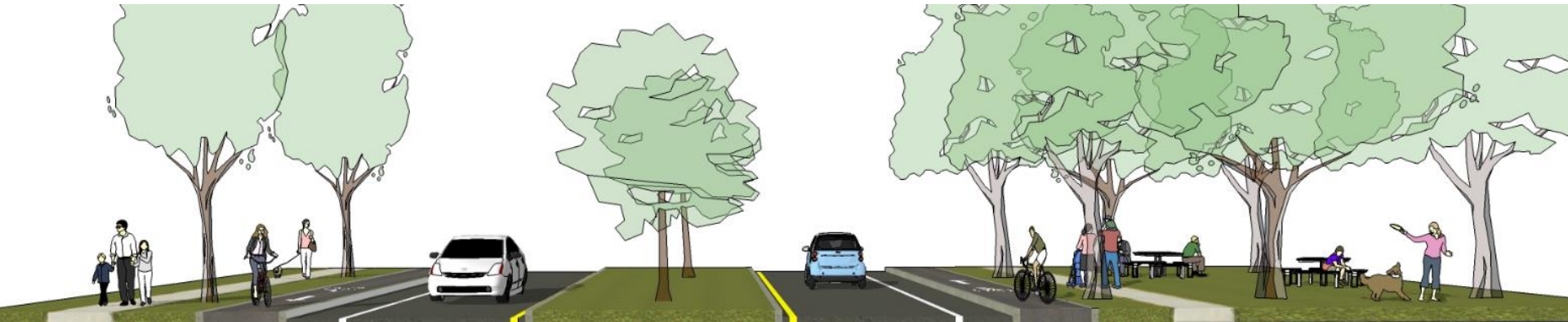
- Three Tiers for entry into the Program
- Planning Assistance to support CS Prioritization Plan – up to **\$50,000** available to any community (Reimbursable)
- CS Construction – up to **\$400,000** (Reimbursable)
- Design is not an eligible expense
- \$10M to be spent over each of the next five years (2017-2021)



CS Funding Program Framework

Engineers + Planners

- **Tier 1:**
Training and Complete Streets Policy Development
- **Tier 2:**
Complete Streets Prioritization Plan Development
- **Tier 3:**
Project Approval and Notice to Proceed for Construction



Prioritization Plan Process

Engineers + Planners

- **Compile existing studies, plans, projects, etc.**
- **Map areas of concern and areas of potential**
- **Gather input from the community and from Town officials**
- **Work with Town to identify a list of potential projects**
- **Prioritize projects based on potential, need, input from community, and Town officials' priorities**



HSB PRIORITIZATION PROCESS

Community and Municipal Input: WikiMapping

Engineers + Planners

HANOVER COMPLETE STREETS PRIORITIZATION PLAN

Accessibility (ADA) Bicyclist Pedestrian Equestrian

Hanover Complete Streets About & Help ADD POINTS

Map Satellite Holbrook Town Forest

Complete streets are for everyone

Click **ADD POINTS** below to add to the map. Add as many points as you would like.

Welcome

Welcome to the Hanover Complete Streets Interactive Map!

Share with us your **Experience** and **Vision** as it relates to **Accessibility (ADA)**, **Bikeability**, **Walkability**, and **Equestrian** in the Town of Hanover.

Click **"ADD POINTS"** to the left and place an icon on a location followed by a comment of your **Experience** and **Vision** around Hanover.

If you have more detailed ideas or wish to contact the project team, please email us at: cuy@hshassoc.com.

[Continue to Map](#)

Anonymous

Go to: <http://wikimapping.com/wikimap/Town-of-Hanover.html>

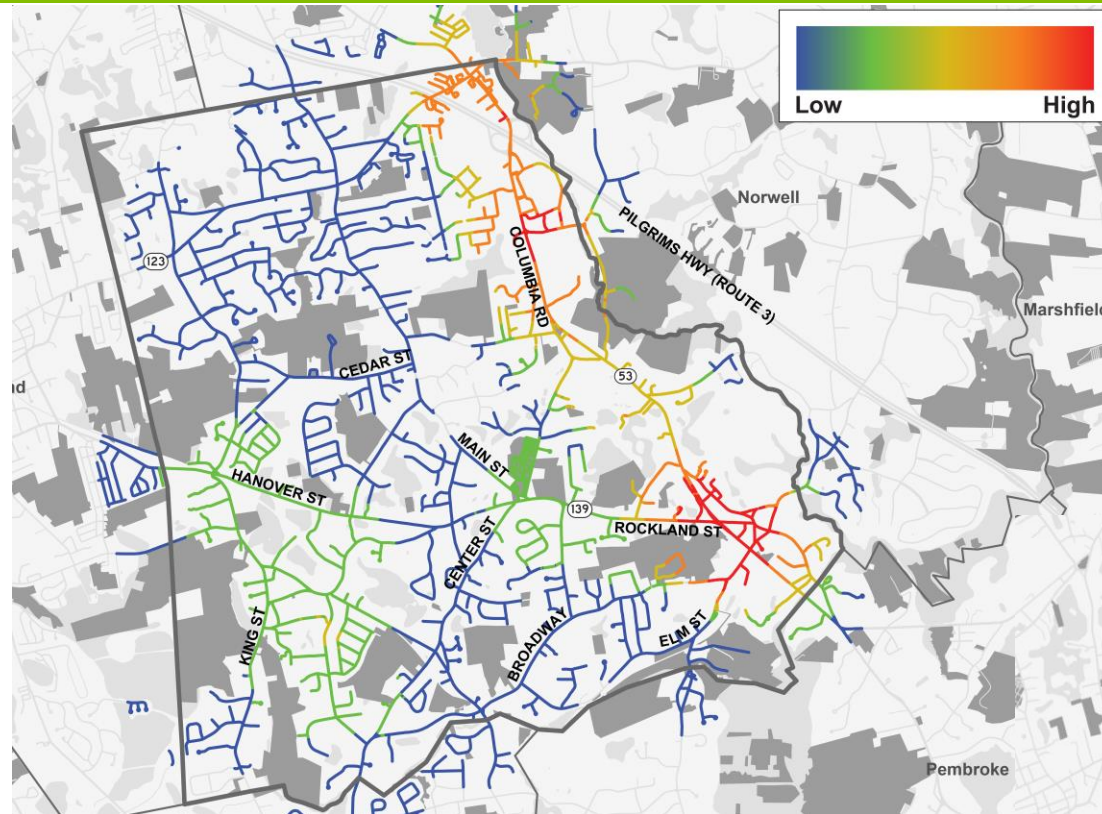
HSH PRIORITIZATION PROCESS

Data Collected

Engineers + Planners

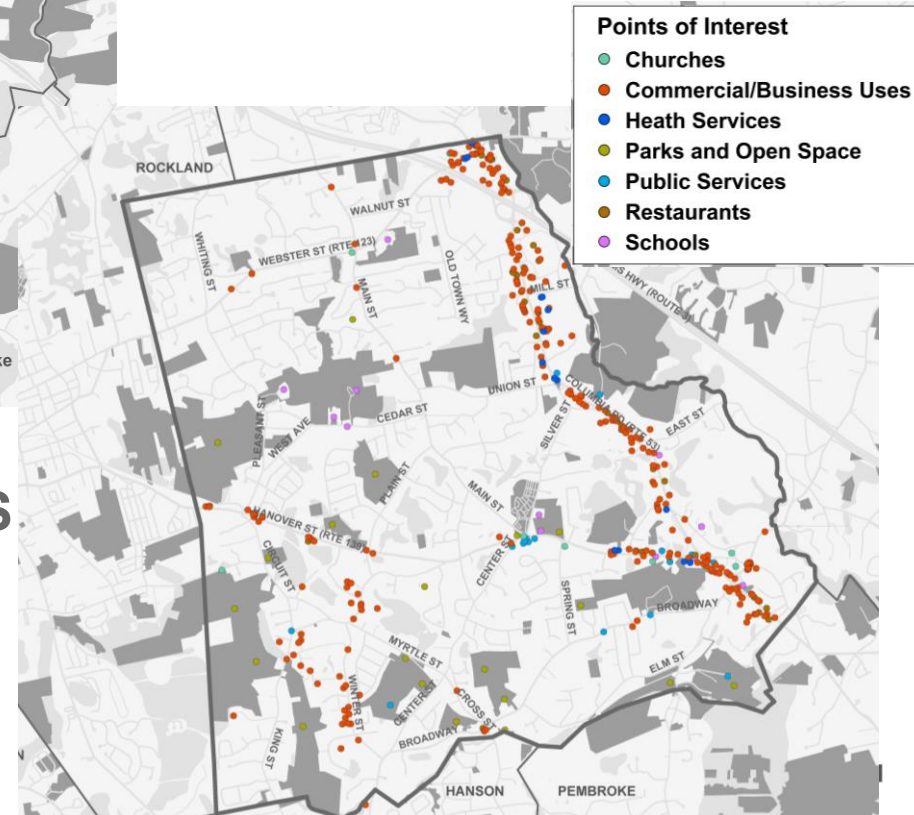
HSH PRIORITIZATION PROCESS

Latent Pedestrian Demand



HSH PRIORITIZATION PROCESS

Latent Demand – Destination Points

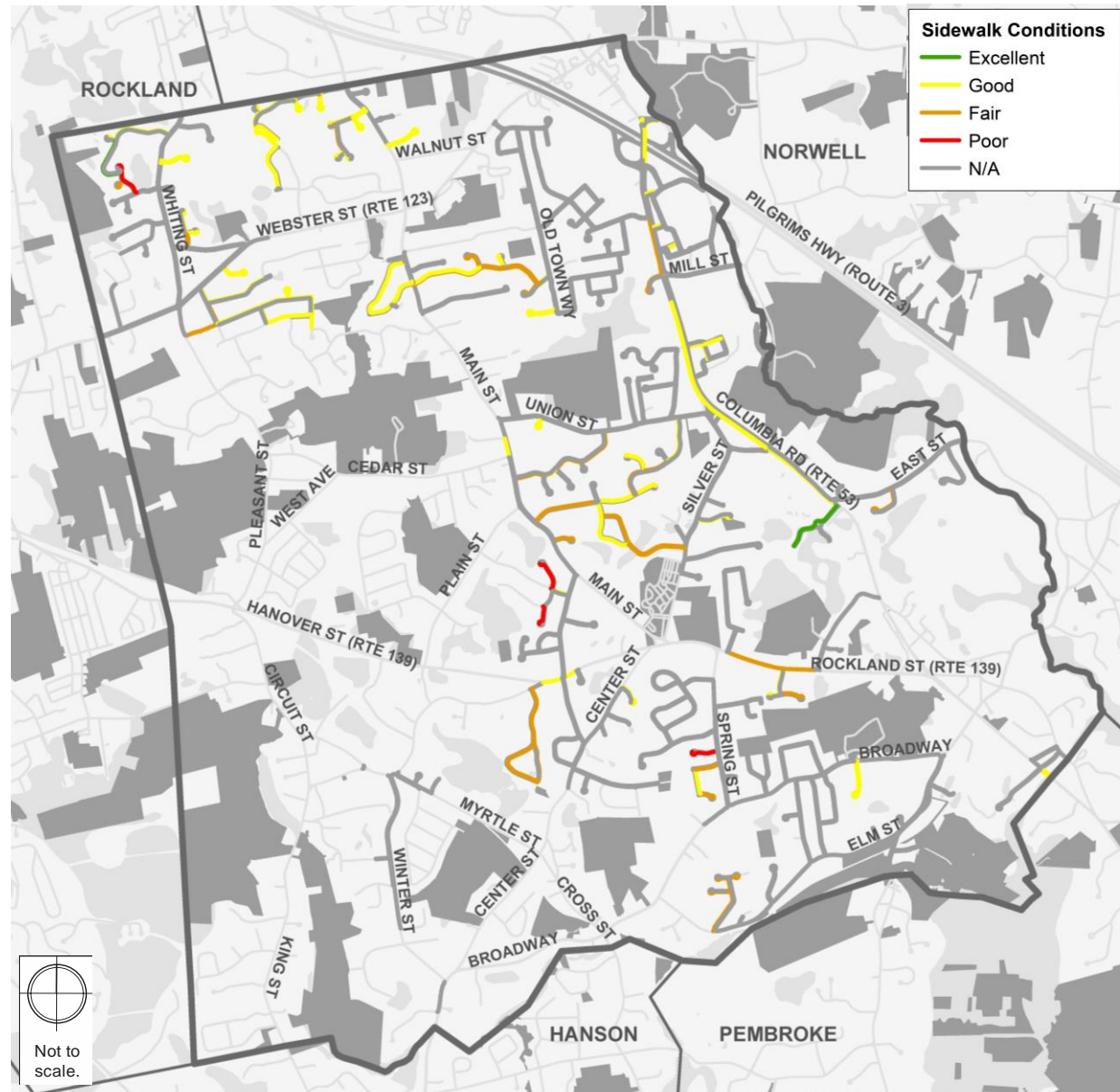


HSH PRIORITIZATION PROCESS

Pedestrian Network

Engineers + Planners

- Shows quality of existing sidewalks and gaps in the sidewalk network
- Criteria considered include:
 - Condition of sidewalk
 - Gaps in the network



HSH PRIORITIZATION PROCESS

Community and Municipal Input: WikiMapping

Engineers + Planners

Missing sidewalks give way for unsafe conditions for pedestrians, including those with disabilities



Missing crosswalks create unsafe conditions for pedestrians in Four Corners



Unsafe conditions for cyclists along Main Street



HOWARD STEIN HUDSON

Key Points

Engineers + Planners

- **Projects do not need to be constructed in order of priority**
 - However, projects may only receive Tier 3 funding if they're included on the list

- **Projects must be fully designed or require little/no design to be funded**
 - Funds cannot be used for design

- **Currently, funds cannot be used on state-owned roads**
 - There may be a permitting process to allow this in the future
 - Ideas for projects on state-owned roadways are still encouraged



HOWARD STEIN HUDSON

CS Funding Program Framework

Engineers + Planners

- **Tier 1:**
Training and Complete Streets Policy Development
- **Tier 2:**
Complete Streets Prioritization Plan Development
- **Tier 3:**
Project Approval and Notice to Proceed for Construction



Board of Selectmen Motion

Engineers + Planners

- Motion to approve the Prioritization Plan to be uploaded to the MASS DOT Website for approval.





Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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)
2	Pedestrian Connection to Shaw's from Cardinal Cushing Center	From the dead end (adjacent to North Pointe Apartments), construct and pave a pedestrian footpath (~100 ft long) to Columbia Road (<i>current path is open space and appears to be Town ROW</i>). Install a high visibility crosswalk with ADA-compliant curb ramps across Columbia Road (adjacent to the Shaw's Plaza entrance). Supplement the high visibility crosswalks with a pedestrian activated warning device (PAWD), such as a Rectangular Rapid Flash Beacon (RRFB). Install wayfinding signage to the Shaw's Shopping Center for pedestrians coming to/from Cardinal Cushing Center.	No	North Pointe Apartments (adjacent to Cardinal Cushing Center) to Shaw's Shopping Center	255983, 874486	255958, 874451	CS Needs Assessment	P2, P4, P9, P12, P0	x	x	x	x				Yes, MassDOT	\$44,000.00	\$44,000.00		3	Dec-18
15	Pedestrian Improvements along Main Street (from Lally Farms Drive to Webster Street)	Sidewalk construction from Lally Farms Drive to Webster Street (~1650 ft). Install crosswalks and ADA-compliant curb ramps to connect proposed sidewalks. Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width. Due to the presence of stone walls along a scenic road that may need to be reset, additional permitting through the Historic Commission may be required.	No	Lally Farms Drive to Webster Street	252275, 877540	252143, 878025	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$215,000.00	\$215,000.00		9	Dec-18
23	Intersection Improvements on Dillingham Way (adjacent to Old Town Way)	To slow turning traffic speeds and improve pedestrian sight distances, trim trees, install back up stop lines, and relocate STOP signs to be in front of stop lines at the intersection of Dillingham Way/Old Town Way. Install high visibility crosswalks and ADA-compliant curb ramps on both sides of Dillingham Way.	No	Dillingham Way and Old Town Way	253297, 877407		CS Needs Assessment	S0, P2, P9	x	x	x			x		No	\$46,000.00	\$46,000.00		3	Dec-18
39	Hanover Town Hall Property	Reconstruct wheelchair ramp adjacent to Town Hall (located at the eastern side of the building) to meet ADA code and ADA guidelines. The ramp is currently not in compliance with ADA ramp specifications and ADA requirements for handicapped wheelchair ramp access. This would greatly improve safe accessibility to Hanover Town Hall. Using photos, existing wheelchair ramp has an existing slope of ~9%. Reconstruct wheelchair ramp at 7.5% with 5' level landing pads every 30' as required by ADA. Add handrail to right side of wheelchair ramp. Minor grading required.	No	Hanover Town Hall	254230, 874182		CS Needs Assessment	P2	x	x	x					No	\$24,000	\$24,000.00		3	Dec-18
6	Pedestrian Improvements along Main Street (from Grove Street to Hanover Street)	Sidewalk construction from Grove Street to Hanover Street (SB side). Coordinate with proposed intersection improvement on Main Street/Silver Street/Hanover Street (refer to <i>Intersection Improvements on Main Street/Silver Street/Hanover Street</i>). Install crosswalks with ADA-compliant curb ramps at key locations such as on Main Street (adjacent to Hanover Cemetery) and on Grove Street to connect to proposed sidewalks (refer to <i>Pedestrian Improvements along Main Street (from Meeting Hill Lane to Grove Street)</i>). Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width.	No	Grove Street to Hanover Street	253579, 874764	254186, 874224	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$296,000.00	\$296,000.00		9	Dec-19
41	Bicycle Improvements on Dillingham Way	Install advisory lanes from Main Street to Woodland Drive. To indicate a shared lane environment for bicycles, install appropriate signage distributed at key points throughout the whole corridor (as a required supplement to advisory lanes). Assume 4' advisory shoulders and a 16' two-way travel width. Traffic counts will have to be done to confirm feasibility of advisory shoulders. Advisory lanes require municipalities to file a Request to Experiment to the Federal Highway Administration.	No	Main Street to Dillingham Way	252261, 877221	253525, 877609	CS Needs Assessment	B2, B7, S1	x		x	x				No	\$91,000.00	\$91,000.00		6	Dec-19
7	Pedestrian Improvements along Main Street (from Meeting Hill Lane to Grove Street)	Sidewalk construction from Meeting Hill Lane to Grove Street (NB side). Install crosswalks with ADA-compliant curb ramps at key locations such as on Meeting Hill Lane to connect to proposed sidewalks (refer to <i>Pedestrian Improvements along Main Street (from Meeting Hill Lane to Plain Street)</i>). Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width. Due to the presence of stone walls along a scenic road that may need to be reset, additional permitting through the Historic Commission may be required.	No	Meeting Hill Lane to Grove Street	253408, 875015	253579, 874764	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$162,450.00	\$162,450.00		9	Dec-20



Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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)
37	Bicycle Improvements/Traffic Calming on Woodland Drive	Install "Road Closed to Thru Traffic" (R11-4) signage at the intersections of Woodland Drive/Washington Street (Route 53) and Woodland Drive/Webster Street (Route 123). Install advisory lanes from Washington Street (Route 53) to Webster Street (Route 123). To indicate a shared lane environment for bicycles, install appropriate signage distributed at key points throughout the whole corridor (as a required supplement to advisory lanes). Assume 4' advisory shoulders and a 16' two-way travel width. Traffic counts will have to be done to confirm feasibility of advisory shoulders. Advisory lanes require municipalities to file a Request to Experiment to the Federal Highway Administration.	No	Columbia Road to Webster Street	253525, 877609	253240, 878161	CS Needs Assessment	S17, S7, S1, B7, B2	x		x	x		x		No	\$95,000.00	\$95,000.00		6	Dec-20
8	Pedestrian Improvements along Main Street (from Plain Street to Meeting Hill Lane)	Sidewalk construction from Plain Street to Meeting Hill Lane (NB side). Install crosswalks with ADA-compliant curb ramps at key locations such as on Larchmont Lane and Main Street (across Plain Street). Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width. Due to the presence of stone walls along a scenic road that may need to be reset, additional permitting through the Historic Commission may be required.	No	Plain Street to Meeting Hill Lane	253155, 875279	253408, 875015	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$198,550.00	\$198,550.00		9	Dec-21
18	Pedestrian Improvements along Main Street (from Cedar Street to Plain Street)	Sidewalk construction (NB Side) from Cedar Street to Plain Street (~1270 ft). Install crosswalks and ADA-compliant curb ramps at key locations such as on Stonegate Lane and on Main Street (across Cedar Street). Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width. MassGIS's OLIVER shows a wetland (wooded swamp) crossing the roadway just north of Stonegate Lane and the SB side has a guardrail indicating a steep drop-off. The Town may need to file a Notice of Intent (NOI) for a culvert extension at the following locations along Main Street: Cedar Street to Plain Street. Will require utility pole relocation/resetting. Due to the presence of stone walls along a scenic road that may need to be reset, additional permitting through the Historic Commission may be required.	No	Cedar Street to Plain Street	253074, 875658	253158, 875278	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$405,000.00	\$400,000.00	\$5,000 from Chapter 90 Funds	9	Dec-22
12	Pedestrian Improvements along Main Street (from Buena Vista Way to Cedar Street)	Sidewalk construction from Buena Vista Way to Cedar Street (NB side due to more level ground). Install crosswalks and ADA-compliant curb ramps at key locations such as on Union Street and Buena Vista Way. Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width. The Town may need to file a Notice of Intent (NOI) for a culvert extension at the following locations along Main Street: Buena Vista Way to Cedar Street. Due to the presence of stone walls along a scenic road that may need to be reset, additional permitting through the Historic Commission may be required.	No	Buena Vista Way to Cedar Street	252789, 876237	253072, 875660	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$379,000.00	\$379,000.00		9	Dec-23
13	Pedestrian Improvements along Main Street (from Stone Meadow Lane to Buena Vista Way)	Sidewalk construction from Stone Meadow Lane to Buena Vista Way (SB side). Install crosswalks with ADA-compliant curb ramps at key locations such as on Main Street (across Buena Vista Way) to connect to proposed sidewalks (refer to Pedestrian Improvements along Main Street (from Buena Vista Way to Cedar Street)), on Ancestor Avenue, and on Stone Meadow Lane. Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width. Due to the presence of stone walls along a scenic road that may need to be reset, additional permitting through the Historic Commission may be required.	No	Stone Meadow Lane to Buena Vista	252500, 876637	252789, 876237	CS Needs Assessment	P2, P9, P5	x	x	x					No	\$306,000.00	\$306,000.00		9	Dec-24
1	Pedestrian Improvements on Washington Street/Broadway (unsignalized intersection in Four Corners Village)	Extend sidewalks from 381 Washington Street to Marylou's Coffee (NB side) (~1800 ft). Install visibility crosswalks with ADA-compliant curb ramps on all four corners of the Washington Street/Broadway intersection.	No	381 Washington Street to Marylou's Coffee	256208, 874286	256823, 873899	CS Needs Assessment	P5, P2, P9	x	x	x					No	\$50,000.00	\$50,000.00		9	Dec-25



Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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)
3	Traffic Calming Improvements on Broadway	Change/reduce current varied speed limits throughout the corridor (currently 25-40 MPH) to have it be consistent to 30 MPH throughout the whole corridor. A speed study will have to be completed (if one hasn't been done already). Install "Slow (Road Curves Ahead) Caution" and speed feedback signages at key points along the corridor to increase drivers' awareness of the dangerous curves and low visibility of pedestrians and cyclists.	No	Broadway corridor	252512, 871328	257117, 874327	CS Needs Assessment	S7, S5, S17, S0	x						x	No	\$5,000.00	\$5,000.00		1	Dec-25
4	Intersection Improvements on Church Street (adjacent to Washington Street)	Current configuration of the unsignalized intersection: (2) NB turning lanes and (1) SB lane. Reconstruct configuration by removing (1) NB turning lane and extend the curb to shorten crossing distance for pedestrians. Install a crosswalk and ADA-compliant curb ramps.	No	Church Street and Washington Street	256669, 873954		CS Needs Assessment	S10, S13, P2, P9, P8	x	x	x				x	No	\$150,000.00	\$150,000.00		3	Dec-25
5	Pedestrian Improvements along Main Street (from Webster Street to Stone Meadow Lane)	Sidewalk construction (SB Side) from Webster Street to Stone Meadow Lane (~3130 ft). Install crosswalks with ADA-compliant curb ramps at key locations, such as the intersections of Dillingham Way/Main Street and Meadowbrook Road/Main Street. Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width.	No	Webster Street to Stone Meadow Lane	252275, 877540	252502, 876633	CS Needs Assessment	P2, P9, P5,		x	x	x				No					
9	Intersection Improvements on Main Street (adjacent to Webster Street)	For the SB side, remove the slip lane and the exclusive right-turning lane on Webster Street and extend the curb. For the NB side, tighten curb radii. Reconstruct existing island on Main Street as a pedestrian safety island by raising the island 6 inches high, creating a footpath in the middle of the island that is at least 5 ft wide, with 2 ft wide detectable warning strips on each end. The approach edge of the island should be outlined in reflective white or yellow material. Install high visibility crosswalks and ADA-compliant curb ramps.	No	Main Street and Webster Street	252275, 877540		CS Needs Assessment	P7, P8, P2, P9, S13, S6	x	x	x				x	No					
10(A)	Intersection Improvements on Walnut (adjacent to Webster Street)	OPTION 1: On the WB side, remove the slip lane and extend the curb (approximately 40 ft). On the EB side, tighten curb radii to reduce speeding (if feasible). Reconstruct existing island as a pedestrian safety island by raising the island 6 inches high, creating a footpath in the middle of the island that is at least 5 ft wide, with 2 ft wide detectable warning strips on each end. The approach edge of the island should be outlined in reflective white or yellow material. Install high visibility crosswalks and ADA-compliant curb ramps.	No	Walnut Street and Webster Street	252786, 878009		CS Needs Assessment	P7,P8, P2, P9, S13, S6	x	x	x				x	No					
10(B)	Intersection Improvements on Walnut Street (adjacent to Webster Street)	OPTION 2: On the WB side, close off the median opening to remove the first WB turning lane and divert right-turn traffic to the second WB turning lane. On the EB side, tighten curb radii (if feasible). Reconstruct existing island as a pedestrian safety island by raising the island 6 inches high, creating a footpath in the middle of the island that is at least 5 ft wide, with 2 ft wide detectable warning strips on each end. The approach edge of the island should be outlined in reflective white or yellow material. Install high visibility crosswalks and ADA-compliant curb ramps.	No	Walnut Street and Webster Street	252786, 878009		CS Needs Assessment	P7, P2, P9, S13, S6	x	x	x				x	No					
14	Proposed Shared Use Path through the Hanover Branch Line former corridor	Following the former corridor of the Hanover Branch Line, extend the Rockland Rail Trail from the Rockland-Hanover town boundary in West Hanover to Four Corners Village, passing through key destinations of the Town such as West Hanover Village, Ellis Field, Hanover Senior Center, Myrtle Street Playground, South Hanover Village, and Four Corners Village. Include wayfinding signages throughout the proposed corridor to route people to a safer alternative (via the proposed path) to get from West Hanover to Four Corners Village.	No	Former Hanover Branch Line corridor			CS Needs Assessment	B7, B10, P4	x	x	x	x				Yes, Town of Rockland					
16	Pedestrian Improvements on Center Street	Sidewalk construction (NB side) from the Hanover Street/Center Street intersection to Winter Street/Broadway intersection (~1.9 miles). Install ADA-compliant curb ramps on Center Street (adjacent to Hanover Street).	No	Hanover Street to Winter Street	254139, 874200	252586, 871653	CS Needs Assessment	P2, P9, P5	x	x	x					No					



Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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)
17	Intersection Improvements on Main Street (adjacent to Union Street)	On the WB/EB sides of Union Street, tighten curb radii to slow turning traffic speeds and improve sight distances for pedestrians turning on to Main Street. Reconstruct the open space island on Union Street as a pedestrian safety island by raising the island 6 inches high, creating a footpath in the middle of the island that is at least 5 ft wide, with 2 ft wide detectable warning strips on each end. The approach edge of the island should be outlined in reflective	No	Main Street and Union Street	252994, 875933		CS Needs Assessment	S6, S13, P2, P9, P7	x	x	x			x		No					
19	Pedestrian Improvements from Webster Village Housing Development to Assinippi Village	Sidewalk construction and reconstruction from 295 Webster Street to the end of Assinippi Village (~3200 ft). Install high visibility crosswalks with ADA-compliant curb ramps at key locations. Supplement the high visibility crosswalks with pedestrian activated warning devices (PAWDs). PAWDs should be located at least 100 ft from an intersection and outside of turning lanes or acceleration lanes.	No	Webster Village Housing Development to Assinippi Village	253009, 878270	253807, 878813	CS Needs Assessment	P2, P9, P5, P12	x	x	x					State Jurisdiction					
20	Pedestrian Improvements on Water Street	Narrow roadway lanes to 10-ft and construct 5-ft sidewalks on the WB side from Broadway/Water Street to Elm Street/Water Street (~1.3 miles). Install a crosswalk with ADA-compliant curb ramps at approximately adjacent to 134 Water Street.	No	Broadway to Elm Street	254211, 872294	256035, 872780	CS Needs Assessment	P2, P9, P5	x	x	x					No					
21	Intersection Improvements on Old Washington Street (adjacent to Washington Street/Route53)	On the WB side, extend the curb. Reconstruct existing concrete island as a pedestrian safety island: widen island to 10-ft, create a footpath in the middle of the island that is at least 5-ft wide, with 2-ft wide detectable warning strips on each end. The approach edge of the island should be outlined in reflective white or yellow material.	No	Old Washington Street and Route 53	255036, 875712		CS Needs Assessment	P7, P8	x	x	x			x		No					
22	Pedestrian Improvements along Circuit Street	Sidewalk construction from Hanover Street to Summer Street (NB side) (~2100 ft). Reconstruct existing conventional crosswalk into a raised crosswalk with ADA-compliant curb ramps.	No	Hanover Street to Summer Street	250969, 874492	251221, 873923	CS Needs Assessment	P2, P9,P5	x	x	x					No					
24	Bicycle Improvements along Main Street	OPTION 2: To provide cycling options to get to Hanover High School/Town Hall/Library/First Congregational Church, install a 5-ft bike lane (NB side) and shared lane markings (SB side). To indicate a shared lane environment for cyclists, install "Share the Road (W16-1, W11-1) signage distributed at key points throughout the whole corridor. Install speed radar signs at key points along the corridor. Install bike racks at key locations, such as the John Curtis Free Library and Town Hall. Existing ROW constraints. Current roadway conditions for Main Street include 24 ft of roadway width (curb-to-curb) with 35 ft of ROW width.	No	Hanover town line to Hanover Street	254265, 874232	251823, 878485	CS Needs Assessment	B2, B8, S1, B7, B3, S5	x			x		x		No					
25	Intersection Improvements on Walnut Street (adjacent to Main Street)	To slow turning traffic speeds and improve pedestrian sight distances, tighten curb radii on both sides of Walnut Street. Install a crosswalk and ADA-compliant curb ramps.	No	Walnut Street and Main Street	252213, 877912		CS Needs Assessment	S6, P2, P9	x	x	x			x		No					
26	Bicycle Improvements along Cedar Street	On the WB side, install 5-ft bike lanes by narrowing roadway lanes to 10 ft and narrowing shoulders on the EB side. On the EB side, install shared lane markings ("sharrows"). To indicate a shared lane environment for cyclists, install "Share the Road" (W16-1, W11-1) signage distributed at key points throughout the whole corridor. Install bike racks adjacent to Hanover High School.	No	Main Street to Whiting Street	251242, 875662	253074, 875658	CS Needs Assessment	B2, B8, B3, S1, B7	x			x				No					



Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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	Vehicle 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)
27	Pedestrian Improvements on Union Street/Old Washington Street	Sidewalk construction on the WB side of the road from Main Street to Washington Street (Route 53).	No	Main Street to Washington Street (Route 53)	252994, 875934	255035, 875720	CS Needs Assessment	P5	x	x	x					No					
28	Intersection Improvements on Silver Street	To slow turning traffic and improve pedestrian sight distances, realign skewed intersection into a T-type intersection as much as possible at Earl's Way (adjacent to Silver Street). Install crosswalks with ADA-compliant curb ramps.	No	Earl's Way and Silver Street	254422, 875007		CS Needs Assessment	S13, P2, P9	x	x	x			x		No					
29	Bicycle Improvements along West Ave	To provide cycling options to get to the middle and high schools, narrow roadway lanes to 10 ft and install a 5-ft bike lane (EB side). On the WB side, install shared lane markings ("sharrows"). To indicate a shared lane environment for cyclists, install "Share the Road" (W16-1, W11-1) signage distributed at key points throughout the whole corridor.	No	Pleasant Street to Cedar Street	251206, 874996	251768, 875524	CS Needs Assessment	B2, B8, B7, S1	x			x				No					
30	Intersection Improvements on Union Street	To slow turning traffic and improve pedestrian sight distances, tighten curb radii at the following location: Pine Street/Union Street. Install crosswalks with ADA-compliant curb ramps.	No	Pine Street and Union Street	254305, 875950		CS Needs Assessment	S6, P2, P9	x	x	x			x		No					
31	Bicycle Improvements along Main Street	OPTION 1: Install shared lane markings ("sharrows") to indicate a shared lane environment for bicycles and drivers. To indicate a shared lane environment for cyclists, install "Share the Road (W16-1, W11-1) signage distributed at key points throughout the whole corridor. Install speed radar signs at key points along the corridor. Install bike racks at key locations, such as the John Curtis Free Library and Town Hall.	No	Main Street corridor	254265, 874232	251823, 878485	CS Needs Assessment	B8, B7, S1, S5	x			x				No					
32	Intersection improvement on Pleasant Street (adjacent to Webster Street)	On the NB side, close off the island opening to remove the first NB turning lane and divert right-turn traffic to the second NB turning lane. Reconstruct existing pedestrian refuge island by raising the island 6 inches high, reconstructing the footpath in the middle of the island to be at least 5 ft wide, with 2 ft wide detectable warning strips on each end. The approach edge of the island should be outlined in reflective white or yellow material. Install ADA-compliant curb ramps at the crosswalk landings on NB/SB sides of Pleasant Street.	No	Pleasant Street and Webster Street	250970, 874514		CS Needs Assessment	P7, P2, P9, S13	x	x	x			x		No					
33	Bicycle Improvements along King Street	Install advisory lanes along the corridor. To indicate a shared lane environment for cyclists, install appropriate signage distributed at key points throughout the whole corridor (as a required supplement to advisory lanes). Install bike racks at key locations, such as Forge Pond Park and Ellis Field. Current traffic conditions that would make King Street ideal for advisory lane implementation include its 2,591 ADT and a posted speed limit of 30 MPH.	No	Circuit Street to Hanover town line	251485, 873519	251368, 871148	CS Needs Assessment	B2, B7, S1, B3	x			x				No					



Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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	Vehicle 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)
34	Intersection Improvements on Grove Street (adjacent to Main Street)	To slow turning traffic speeds and improve pedestrian sight distances, tighten curb radii at Grove Street (adjacent to Main Street). Supplement with high visibility crosswalks and ADA-compliant curb ramps.	No	Grove Street and Main Street	253581, 874763		CS Needs Assessment	S6, P2, P9	x	x	x				x	No					
35	Bicycle Improvements along Whiting Street	Install advisory lanes from Rockland Town Line to Hanover Street. To indicate a shared lane environment for bicycles, install appropriate signage distributed at key points throughout the whole corridor (as a required supplement to advisory lanes). Current traffic conditions that would make Whiting Street ideal for advisory lane implementation include its 2,591 ADT with posted speed limit as 30 MPH.	No	Hanover town line to Hanover Street	250573, 878270	250965, 874511	CS Needs Assessment	B2, S1, B7	x		x	x				No					
36	Traffic calming/Bicycle Improvements on Walnut Street	Install "Road Closed to Thru Traffic" (R11-4) signages at the intersections of Main Street/Walnut Street and Webster Street/Walnut Street. Install advisory lanes from Main Street to Webster Street. To indicate a shared lane environment for bicycles, install appropriate signage distributed at key points throughout the whole corridor (as a required supplement to advisory lanes). Traffic counts will have to be done to confirm feasibility of advisory shoulders.	No	Main Street to Webster Street	252207, 877916	252793, 877999	CS Needs Assessment	S17, S7, S1, B7, B2	x		x	x		x		No					
38	Intersection Improvements on Cedar Street (adjacent to Pleasant Street)	Install ADA-compliant curb ramps across Cedar Street to connect existing high visibility crosswalk.	No	Cedar Street and Pleasant Street	251249, 875664		CS Needs Assessment	P2, P9	x	x	x					No					
40	Intersection Improvements on Main Street/Silver Street/Hanover Street (Route 139)	On the NB side, close off the median opening to remove the two turning lanes that are adjacent to the First Congregational Church. Restripe and move crosswalks 10 ft north so that pedestrians are not landing in front of the church driveway. Supplement crosswalk with ADA-compliant curb ramps. Remove SB lane from the start of the baseball parking lot to Hanover Street (~217 ft). Move baseball field parking approximately 6 ft to the east and change to reverse angle parking. Coordinate with proposed sidewalk construction project (refer to Pedestrian Improvements along Main Street (from Plain Street to Hanover Street).	No	Main Street, Silver Street, and Hanover Street (Route 139)	254264, 874249		CS Needs Assessment	P2, P9, S13	x	x	x			x		No					
42	Intersection Improvements along Whiting Street	To slow turning traffic speeds and improve pedestrian sight distances on potential cut-through roadways, tighten curb radii at the following intersections: North Street/Whiting Street, Ledgewood Drive/Whiting Street, and Cedar Street/Whiting Street. Install crosswalks and ADA-compliant curb ramps.	No	Three locations: North Street/Whiting Street, Ledgewood Drive/Whiting Street, Cedar Street/Whiting Street	250500, 877261; 250596, 876574; 251242, 875661		CS Needs Assessment	S6, P2, P9	x	x	x					No					
43	Bicycle Improvements on Center Street	Install an advisory lane (SB side). To indicate a shared lane environment for cyclists, install appropriate signage distributed at key points throughout the whole corridor (as a required supplement to advisory lanes). Current traffic conditions that would make Center Street ideal for advisory lane implementation include its 2,609 ADT with posted speed limit as 35 MPH.	No	Hanover Street to Broadway	254139, 874200	252655, 871721	CS Needs Assessment	B2, B7, S1	x		x	x				No					



Complete Streets Funding Program Project Prioritization Plan

Municipality
MassDOT District

Hanover
5

Date
Name/Title

5/30/2018
Michaela Shoemaker, Town Planner

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)
44	ADA Improvements along Whiting Street (adjacent to Hanover Middle School)	Reconstruct conventional crosswalk that is adjacent to Hanover Middle School into a high visibility crosswalk with ADA-compliant curb ramps.	No	Whiting Street at Hanover Middle School	251173, 875826		CS Needs Assessment	P2, P9	x	x	x					No					
45	Wayfinding Signage along Main Street	Install wayfinding signage at key points along the corridor to direct people to the following locations: Hanover High School and Cedar Elementary School, Hanover Cemetery, Hanover Center/Town Hall/Library, and baseball field in Hanover Center.	No	Hanover Street to Hanover town line	254265, 874232	251823, 878485	CS Needs Assessment	B0, P0			x	x				No					
46	Intersection Improvements on West Ave (adjacent to Pleasant Street)	On the EB side, reconstruct and extend curb. Install a crosswalk and ADA-compliant curb ramps.	No	West Ave and Pleasant Street	251213, 874999		CS Needs Assessment	P8, P2, P9	x	x	x					No					
47	Wayfinding Signage Improvements throughout King Street corridor	Install wayfinding signage at key points along the corridor to direct people to the following locations: Forge Pond Park, Ellis Field, Clark Land.	No	Circuit Street to Hanover town line	251485, 873519	251368, 871148	CS Needs Assessment	B7, P4			x	x				No					
48	Neighborhood Village Identification through Placemaking	Install signage that highlights or brands the different villages within the Town, specifically at the entrances of each village, to build neighborhood pride and show local character. Examples of villages to receive branding include: Hanover Center, Cardinal Cushing Center, Four Corners Village, and West Hanover.	No	Townwide			CS Needs Assessment	B0, P0			x	x				No					
49	Townwide Speed Radar Signage	Install speed radar speed signs along key municipal roadways where frequent speeding occurs. Sign placement should be every 1/4-1/2 mile. Suggested streets: Water Street, Broadway, Union St/Old Washington Street, Main Street, King Street, as well as on state-owned roadways such as Route 53, Route 139, and Route 117.	No	Townwide			CS Needs Assessment	S5, S7	x		x	x		x		No					
49	Townwide Wayfinding Signage	Install better signage throughout the town to better designate horse trails within Hanover.	No	Townwide			CS Needs Assessment	S1			x	x				No					