



# Town of Chatham

Office of the Selectmen  
Town Manager  
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## CHATHAM BOARD OF SELECTMEN AGENDA REPORT

TO: Honorable Board of Selectmen  
Jill R. Goldsmith, Town Manager

FROM: Thomas P. Temple, Director of Public Works

DATE: January 23, 2019 (For the BOS meeting of January 28, 2019)

SUBJECT: BOS Goals and Objectives Follow-up; Presentation of the Comprehensive Sidewalk Management Plan (CSMP) Including MDOT Sidewalk Repairs/Improvements on Rte. 28; Rte. 28 & Rte.137 Intersection Crosswalk Update

### BACKGROUND AND DISCUSSION

The establishment of a Comprehensive Sidewalk Management Plan (CSMP) was an identified goal for the Board of Selectmen for CY2017/FY2018 and a continued priority for CY2019/FY2020. The purpose of the proposed CSMP is to inventory the status of our existing sidewalks (Town-wide) and curb cuts so that annual funding can be planned and targeted. The CSMP will provide Town officials and the public a picture of existing roadway infrastructure conditions, cost estimates to improve our infrastructure, address immediate fix -it issues, and scheduling regular maintenance more efficiently. Further it is a prerequisite for some State grants.

The CSMP includes a Town-wide curb ramp (totaling 265 ramps) and sidewalk inventory for 11 miles± of sidewalks which will assist the Department with our fix-it first maintenance and improvement program to provide improved accessibility throughout the Town. To accomplish this, the Department in conjunction with BETA Group, Inc. completed a GIS/Asset Management System consistent with MA best practices, which includes a Pavement Management program along with a Comprehensive Sidewalk Management Plan e-Suite powered by Peoples GIS. Data was collected via smart devices for all sidewalks & curb ramps.

Included in your agenda report package is a 24" x 36" map showing the Asset Management Program Sidewalks & Curb Ramp Inventory depicting their current conditions.

## MassDOT Sidewalks

We also included those sidewalks located within the MassDOT's Right-of-Way Layout as the intent was to place the State on notice and expedite their sidewalk & ramp repairs in conjunction with the Town's contemplated work. However, when I recently contacted MassDOT about needed repairs to the sidewalk located at 702-720 Main Street, I received an email noting it was the Town's responsibility to make any needed repairs citing a letter dated March 12, 1993 from the District Highway Director which included a signed Agreement by the Board of Selectmen agreeing to be responsible for the maintenance and snow removal on sidewalks along Rte. 28 from South Harwich Town Line to the Traffic Rotary at Main Street (see attachment of Agreement).

### *Rte. 28 and Rte. 137 Intersection Crosswalk (update from MassDOT)*

On December 5, 2018 I wrote a letter to the District Highway Director regarding the concerns raised by the South Chatham Village Association with respect to pedestrian and bicyclist trying to cross Rte. 28 (Main Street) at the intersection Rte. 137 (Meeting House Road) in Chatham. Also mentioned in my letter was the following issues, concerns and/or observations:

- No crosswalk just prior to this intersection for residents, visitors and/or tourist to safely cross Rte. 28 Main Street
- The existing sidewalk on the northside of Rte. 28/Main Street comes to a dead end and the sidewalk begins on the southside of Rte. 28/Main Street with no safe means to cross at this location.
- Traffic is heavy in this location near Rte. 137 (Meeting House Road) and Rte. 28/Main Street with multiple reverse curves in this portion of the State Right-of-Way layout.
- It is also a popular location for residents, visitors, and tourist who are trying to cross Rte. 28 Main Street to get to Cockle Cove where Cockle Cove Beach is located at the end of the road.

We received a response on January 3, 2019 that MassDOT will conduct a field investigation within the next month.

### *Rte. 28 - Old Harbor Sidewalk Extension Request Status*

As you may recall, the last portion of the sidewalk extension that the MassDOT performed was designed and constructed and funded in its entirety by MassDOT up to Barcliff Avenue. The State was in the process of performing the survey work to extend the sidewalk from Barcliff Avenue to Sail Away Lane when they discovered that a portion of the contemplated sidewalk would require some minor Takings to construct same. This halted the project; the Department was notified that if the Town wanted the sidewalk construction extended that the Town would be responsible for the design, public outreach, and and Takings. We are continuing to review this as cost estimates for the design and plans are approximately \$50,000, not including any Takings. We will report back to the BOS on this.

## FISCAL IMPACT

The Town, through the Five-Year Capital Authorization Article each fiscal year generally funds \$100,000 for Sidewalk Construction/Repairs. Given the above, I requested \$200,000 in the FY2020 Capital to fund

to repair, replace and/or reconstruct sidewalks and curb ramps to accelerate this new program based on the stated continued priority of the BOS.

In the past, the Department operating funds via highway and/or sewer have also been used to improve existing sidewalks when associated with sewer, water and/or drainage installations as well as when performing road reconstruction work. The CSMP demonstrates a funding need for sidewalk repairs independent of other road or utility projects.

The Department is also seeking State grant funding opportunities to off-set costs and fast track this program, as well as utilizing Chapter 90 State Aid.

#### RECOMMENDATION

At this time, no action is needed. The purpose of this report is to follow-up on the implementation of a BOS identified goal and receive any comments or questions. Additional funding in FY2020 has been requested as mentioned above. We also intend to utilize a portion of the Chapter 90 funds to fast track this CSMP.

Thank you for your consideration. Should you have any questions regarding the foregoing, please contact me at (508) 945-5155 or [ttemple@chatham-ma.gov](mailto:ttemple@chatham-ma.gov).

#### *Attachments:*

*Comprehensive Sidewalk Management Plan Presentation*

*Town of Chatham Asset Management Program Sidewalk and Curb Ramp Inventory*

*(MassDOT Agreement Letter\_March 12, 1993\_Harwich Town Line to Rotary\_Rte. 28\_Chatham)  
Letter from James A. Lindstrom, Executive Secretary Town of Chatham dated March 12, 1993 to Bernard McCourt, District Highway Director, Taunton, MA and Signed Agreement by the Board of Selectmen dated February 19,1993*

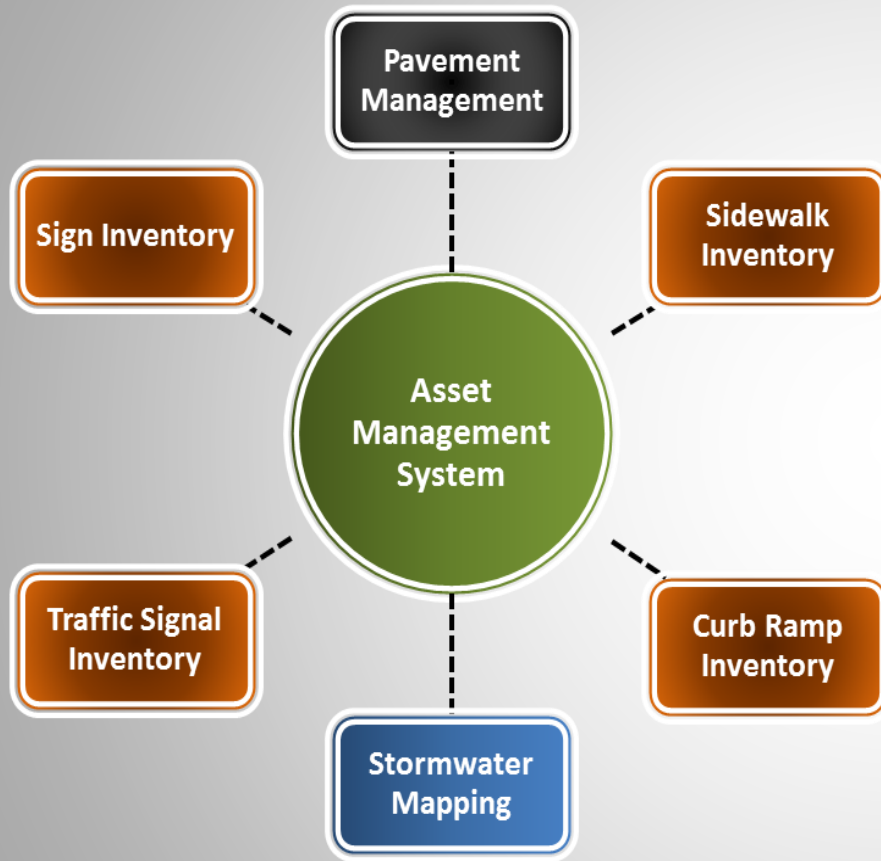
*Rte. 28 and Rte. 137 Intersection Crosswalk (update from MassDOT)*



# Town of Chatham Department of Public Works

## *Comprehensive Sidewalk Management Plan*

# Comprehensive Asset Management

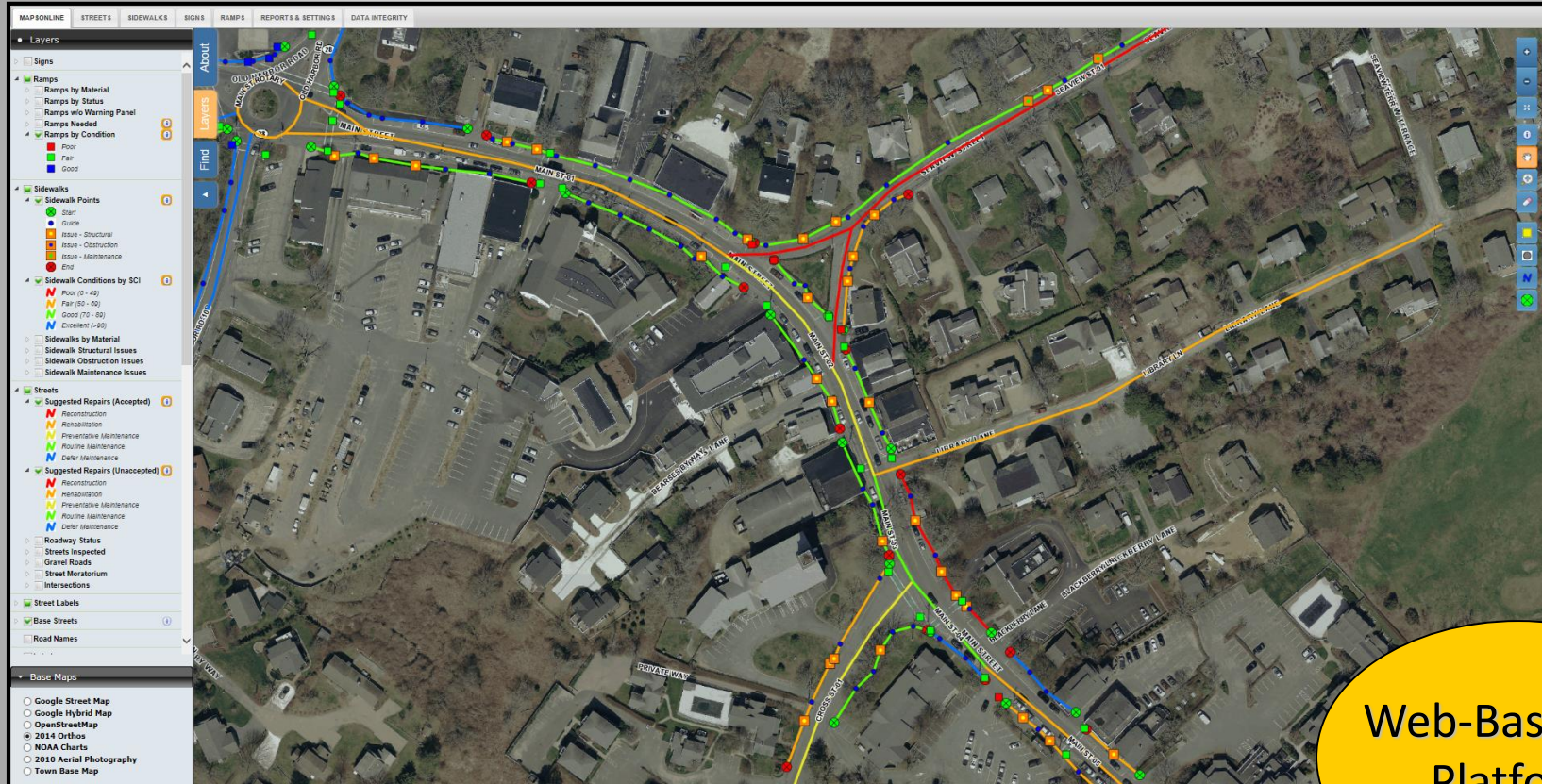


- **Pavement (Roads)**
- **Sidewalks**
- **Curb Ramps**
- **Signs**
- **Traffic Signals**
- **Stormwater**
- **Sewer**
- **Water**
- **Trees**



# System Interface

## Complete Streets (PeopleGIS)



Web-Based GIS Platform



# Curb Ramp and Sidewalk Inventory

## Sidewalk Inventory

- Material Type
- Overall Condition
- Length/Width



## Curb Ramp Inventory

- Location
- Overall Condition
- Material Type
- Detectable Warning Panel (Y/N)



# Curb Ramp and Sidewalk Inventory

## Curb Ramp Representative Photos



**Good**



**Fair**



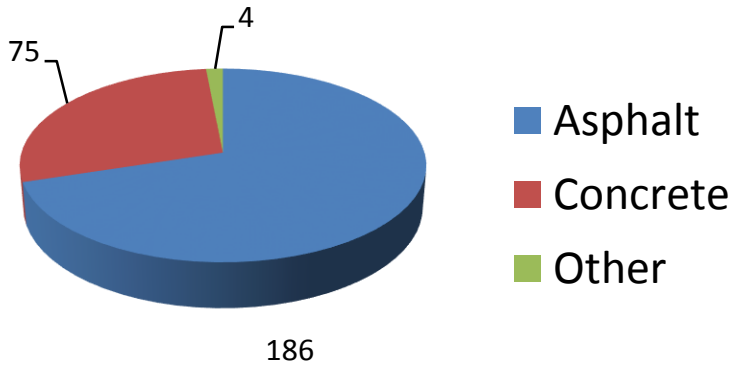
**Poor**



# Curb Ramp and Sidewalk Inventory

## Curb Ramp Inventory

### Ramp by Material



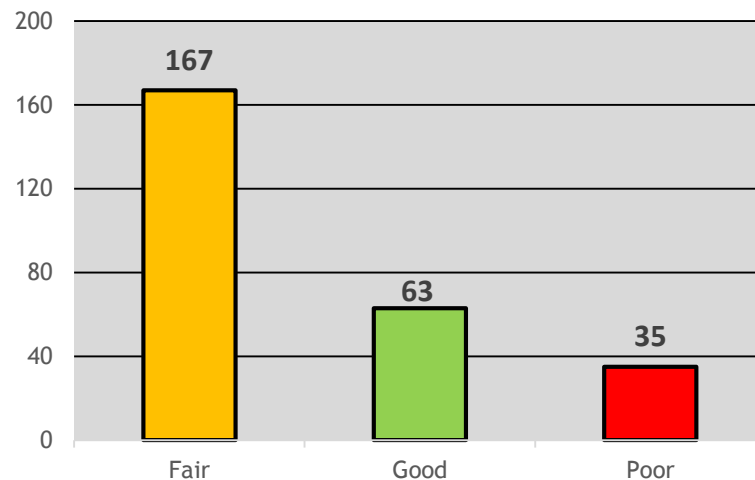
### Curb Ramp by Condition

- Total – 265
- Good – 63
- Fair – 167
- Poor – 35

### Curb Ramp Backlog Summary

Repair Type	Estimated Cost	Count
Replace	\$1,060,000	212
Retrofit	\$1,000	2
<b>Total</b>	<b>\$1,061,000</b>	<b>214</b>

### Curb Ramps by Condition



# Curb Ramp and Sidewalk Inventory

## Sidewalk Representative Photos



Maintenance Issue



Structural Damage



Obstructions

Fair



Good

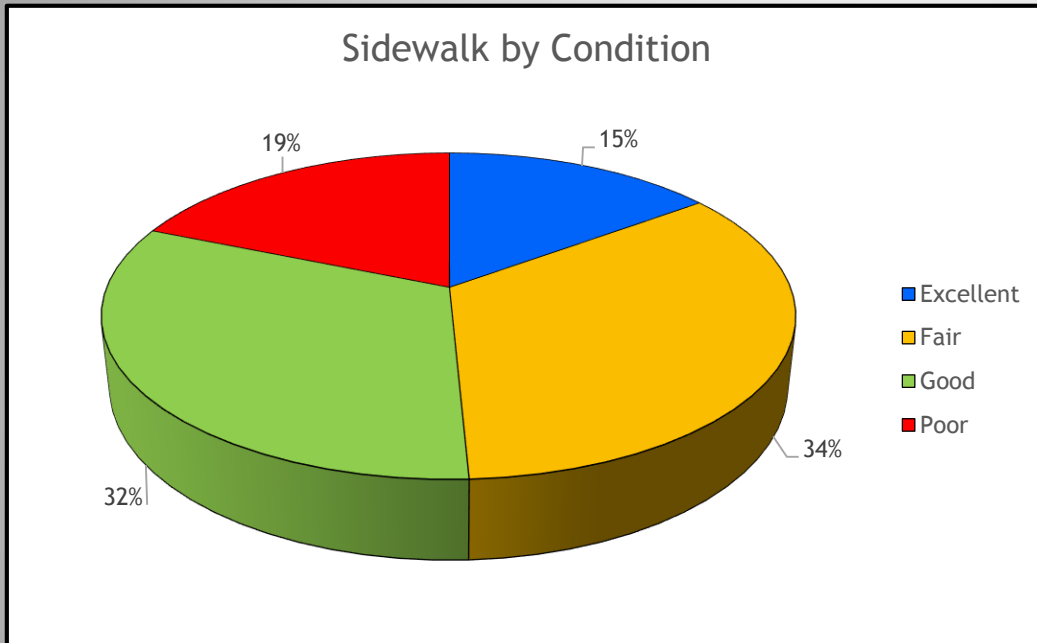


Poor



# Curb Ramp and Sidewalk Inventory

## Sidewalk Inventory



### Sidewalk miles

#### by Condition

- **Total – 11.4 miles**
- Excellent – 1.7 miles
- Good – 4.1 miles
- Fair – 3.9 miles
- Poor – 1.6 miles

Most of the Town's sidewalks are Asphalt – More than 95%



# Curb Ramp and Sidewalk Inventory

<b><i>Sidewalk Backlog Summary</i></b>			
<b>Condition</b>	<b>Repair Type</b>	<b>Length (Miles)</b>	<b>Estimated Cost</b>
<b>Asphalt</b>			
Poor	Reconstruct	1.57	\$232,584
Fair	Major Spot Repair	4.03	\$313,114
Good	Minor Spot Repair	3.94	\$164,649
<b>Brick</b>			
Fair	Major Spot Repair	0.06	\$9,623
Good	Minor Spot Repair	0.02	\$3,406
<b>Concrete</b>			
Fair	Major Spot Repair	0.10	\$18,246
<b>Total</b>		<b>9.72</b>	<b>\$741,623</b>

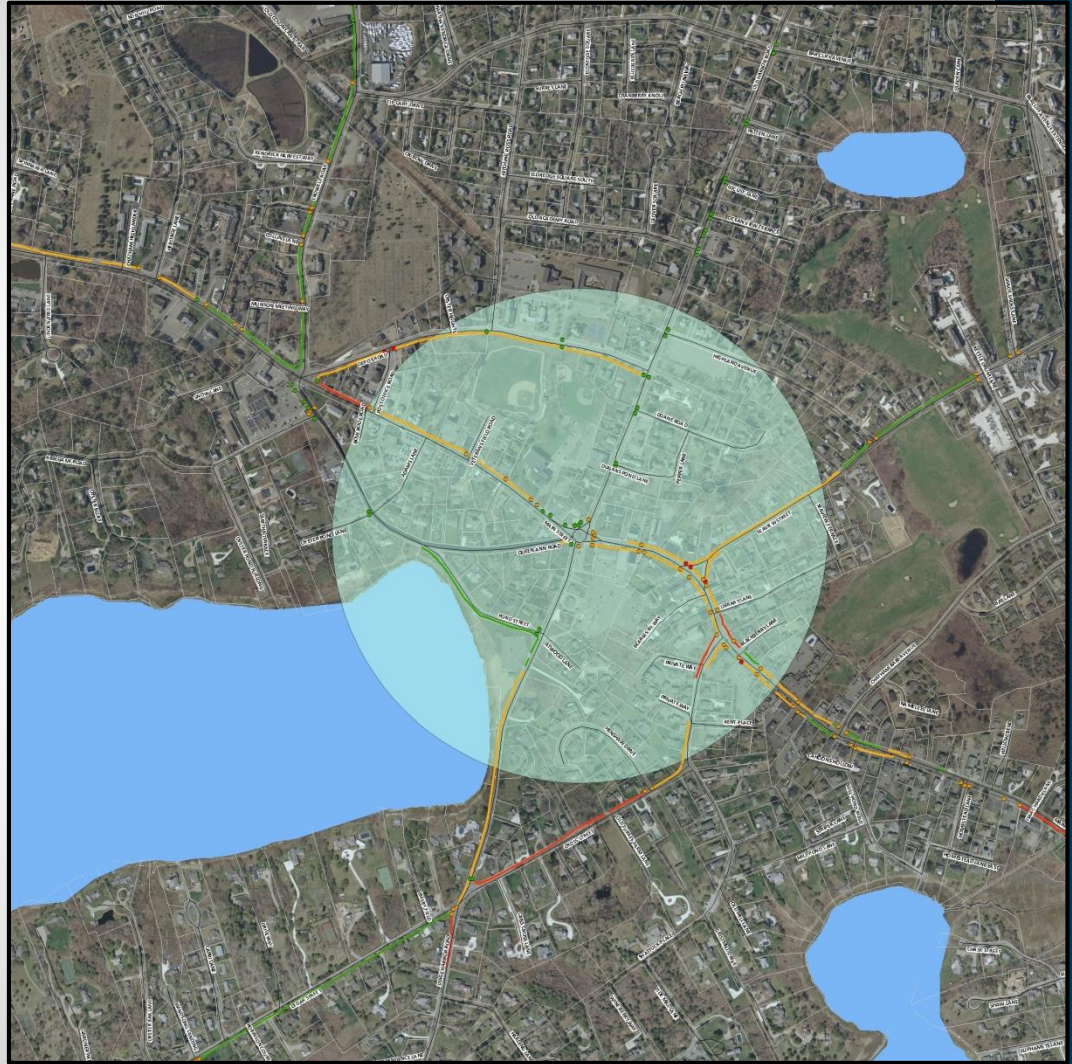
\*Does not include curb removal or replacement



# Comprehensive Sidewalk Plan

## Area Prioritization

- Improve accessibility around Downtown Proper and Rt. 28 Corridor (P1)
- Increase safety around schools and public buildings (P2)
- Expand access to beaches (P3)
- Remainder of Town (P4)



# Comprehensive Sidewalk Plan

## Improvement Plan

<b><i>Curb Ramp and Sidewalk Backlog Summary by Priority Area</i></b>		
<b>Asset</b>	<b>Amount Needing Repair/Replacement</b>	<b>Estimated Cost</b>
<b>Priority Area 1 – Downtown Proper and Rt. 28 Corridor</b>		
Ramps	129	\$322,500
Sidewalks	5.5 miles	\$968,000
<b>Priority Area 2 – Schools</b>		
Ramps	17	\$42,500
Sidewalks	0.65 miles	\$114,400
<b>Priority Area 3 – Streets W/ Beach Access</b>		
Ramps	15	\$37,500
Sidewalks	0 miles	0
<b>Priority Area 4 – Remaining Ramps and Sidewalks</b>		
Ramps	51	\$127,500
Sidewalks	3.58 miles	\$630,080
<b>Total</b>	<b>212/9.73 miles</b>	<b>\$530,000/\$1,712,480</b>



# Comprehensive Sidewalk Plan

## Improvement Plan

<i>Year</i>	<i>\$100K Budget</i>		<i>\$200K Budget</i>	
	<i>Ramps</i>	<i>Sidewalk Feet</i>	<i>Ramps</i>	<i>Sidewalk Feet</i>
2019	15	1875	30	3750
2020	16	1800	32	3600
2021	13	2025	26	4050
<b>Total</b>	44	5,700	88	11,400

\*Additional Curb Ramps and Sidewalks will be repaired/replaced through TIP, Sewer, and Water Main Projects.



# Funding Opportunities

## Construction Grants

- MassDOT Complete Streets
- MassWorks Infrastructure Program
- MassDOT Small Bridge Program
- Municipal Americans with Disabilities Act (ADA)
- Culvert Replacement Municipal Assistance Grant
- Municipal Vulnerability Preparedness (MVP)





**Town of Chatham**  
**Department of Public Works**

***Comprehensive Sidewalk  
Management Plan***

January 2019