



CAPE COD
COMMISSION

Pavement Management 2021 Status Report

September 2022





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1. Introduction

As an essential task required by the Cape Cod Metropolitan Planning Organization (MPO) through its Unified Planning Work Program, this report provides the status of pavement condition assessment activities on Cape Cod. The objectives of this effort are to collect data and implement a regional pavement management system for Cape Cod to provide an objective rating of pavement conditions and needs.

The pavement management process is conducted with the intent to keep the roadway system in the best possible condition with the most efficient use of available funds. There are distinct advantages to managing pavement condition and significant cost savings that can take place with preventative or rehabilitation measures rather than waiting until a road needs reconstruction. Of course, due to the reality of limited financial resources, it is necessary to prioritize pavement repair based on affordability. Deciding which roads to improve and by what technique in a fiscally responsible manner is the essence of Pavement Management.

As stated in the MPO-approved Cape Cod 2020 Regional Transportation Plan, the goal of the pavement management process is to improve the overall pavement condition of all federal aid-eligible roads. Specifically, a four-year performance measure target has been set to have 30% of all non-interstate roads to be in “good” condition.

1.1 PAVEMENT MANAGEMENT SYSTEMS - BACKGROUND

Pavement Management is the practice of planning for pavement repairs and maintenance with the goal of maximizing the value and life of a pavement network.

To accomplish this, a community needs to have several repair techniques in its arsenal and the knowledge of when to apply them. This is where pavement management comes into play. With a comprehensive database of road conditions, the pavement management software can model when to perform which repairs on a road network. Of course, engineering judgment is required to finalize any list of street repairs, as no computer model can take every variable analyzed in making a repair decision into account. The computer system is a great springboard to help a community start its repair program for each year and is an excellent method of storing the repair data.

Below is a model of how a street’s pavement deteriorates over time. Interpreting the curve, a street starts out in excellent condition when it is newly constructed. Midway through its life, a low-cost repair such as crack seal and full depth patch will cost approximately a dollar a square yard. It takes only a few years for the window of opportunity to perform this low-cost maintenance to pass after which the road would need an overlay costing \$13 - \$17 per square yard. By performing timely maintenance, road conditions can be improved today thereby extending the life of the road.

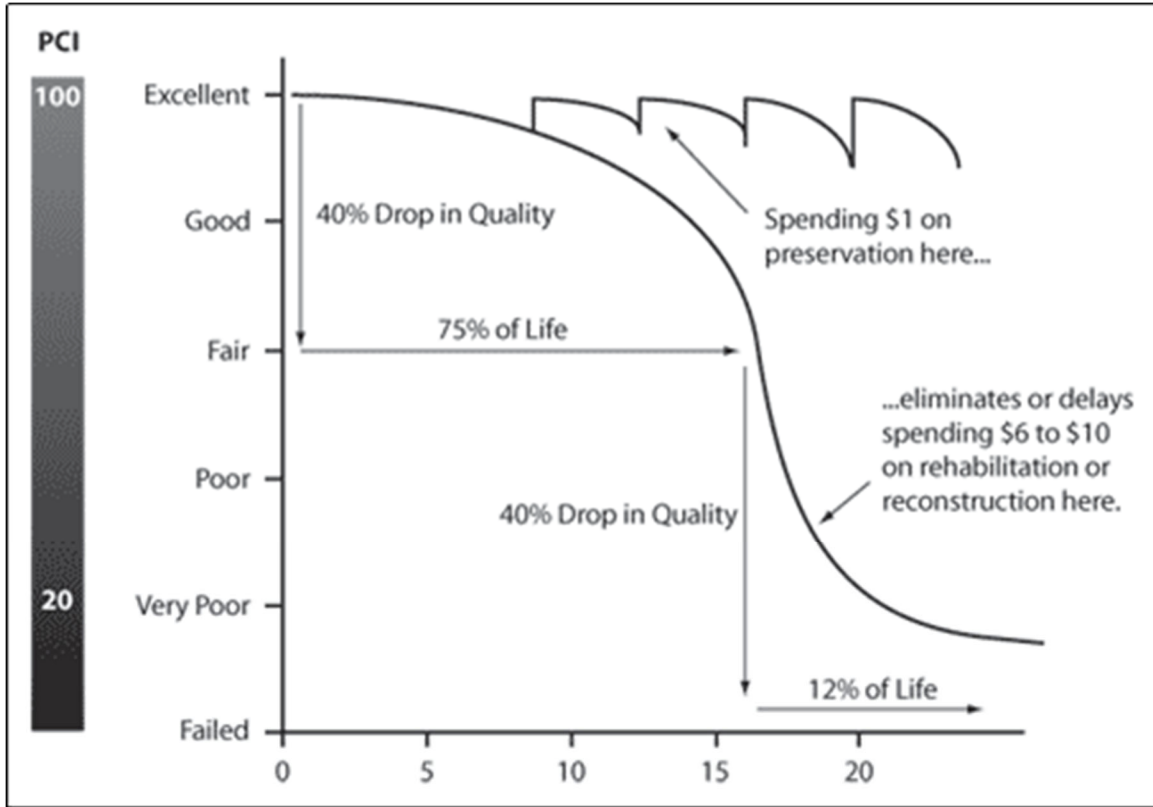


Figure 1 - Pavement Deterioration Curve

Source: Federal Highway Administration

1.2 EVALUATION CRITERIA FOR CCC DATA COLLECTION

The Cape Cod Commission has continued to collect pavement condition data since 2011 through a series of “Windshield Surveys”. These “Windshield Surveys” involve driving the roadways in need of collection and filling out a brief survey with observations. Observers were given photographs and descriptions of example pavement distresses. Observers used a 1 – 5 rating system and made notations of distresses observed in the field. Copies of the field observations for the most recent three-year period (2019-2021) are provided in the appendix of this report. The following table is a summary of the guidance given to observers:



Table 1 - CCC Evaluation Criteria

Condition	Description	Criteria
1	Very Good to Excellent	New pavement with no cracking, rutting, raveling/ signs of wear
2	Good to Very Good	No cracking, rutting, showing a little wear
3	Fair to Good	Showing evidence or more wear and possibly repairs that are in good condition
4	Poor to Fair	Evidence of cracking, rutting, serious wear
5	Poor	Severe cracking, rutting, potholes

1.3 SURVEY OF CAPE COD COMMUNITIES' PAVEMENT MANAGEMENT ACTIVITIES

In September 2020, an email was sent to each of the 15 towns' Department of Public Works directors to ask for an update on their current pavement management activities. The following pages summarize the current pavement management efforts underway among the towns.

1.3.1 BARNSTABLE PAVEMENT MANAGEMENT ACTIVITIES

The Town of Barnstable utilizes detailed field inspections and analysis performed by BETA Group as a Consultant. Their work is entered onto Barnstable's database and periodic reports are provided and discussed. The DPW participates in the data and cost analysis used for reporting. DPW reviews project bids received by the Town and establishes base line costs for each pavement treatment band. These costs are discussed with the town's consultant - then utilized in the pavement conditions report. In addition to the BETA work, the DPW maintains a record of roadway repairs and relies upon experienced field personnel to assist in planning for individual maintenance tasks such as crack & chip seal. DPW also informally monitors the performance of all treatments. Key to the pavement management program is coordination with other utilities and proposed roadway rehabilitation information is passed to utility companies 6-12 months in advance of construction. Schedule adjustments can be made if planned utility work conflicts with DPW projects. This coordination is critical as a moratorium is in place for 5 years after application of a new surface.



Submitted materials include:

- BETA-prepared “Pavement Management Summary,” September 2020. The report contains a summary of the Town’s Pavement Management Program, approach, description of the roadway surface survey process, summary of findings, capital planning and typical costs for various items involved in pavement repair and related road work. See section 1.4.1 for discussion of BETA Pavement Management Systems.

1.3.2 BOURNE PAVEMENT MANAGEMENT ACTIVITIES

The Town has retained the services of Environmental Partners, Inc. (EP) to continue the Town’s Pavement Management Program (PMP) efforts to adapt to the Town’s Capital Improvement Plan (CIP) to accommodate recent changes in staff, environment, and society. The PMP incorporates an extensive database of roadway surface conditions to produce a prioritized list of improvements. The PMP is a planning tool intended to provide the foundation to manage the town’s roadway resources by combining professional engineering metrics with local institutional knowledge. EP and Town Staff will work together to identify goals regarding roadway network condition.

The roadway survey in Bourne, consisting of paved, town-accepted roadways, was most recently completed in the Fall of 2017. A total of 97.85 miles of roadway were inspected. The collection effort focused on the primary categories of roadway data including roadway length, width, segment start/end points, surface type, and pavement condition. Additional roadway elements including curbing, sidewalks, striping, roadway width, and pavement material were also assessed as part of this inspection process and recorded in the database.

Upon completion of the survey, the overall Road Surface Rating (RSR) value for Bourne’s public roadway network was 75.97. The overall RSR represents a benchmark for performance measuring of the Town’s pavement management program moving forward. If the overall RSR were to drop in the years to come, this would be a sign that the program needs to be adjusted or funding for the program may need to be increased. Repair strategies and associated unit costs were defined to develop the Backlog Summary. The current backlog summary for the Town’s roadway network is approximately \$10.8 Million. This budgetary dollar figure represents the funding necessary if the Town were to perform all required maintenance for the Town’s road network within the next year.

The Town will continue to monitor its progress and roadway rating by performing periodic network inspections and is committed in maintaining and improving its roadway network.



1.3.1 BREWSTER PAVEMENT MANAGEMENT ACTIVITIES

The Town of Brewster retained BETA Group, Inc. (BETA) to provide a Pavement Management Program (PMP) to better maintain the Town's roadway network. BETA's pavement services include performing a detailed visual inspection, calculation of a Roadway Surface Rating (RSR), and recommendation of required maintenance for each roadway segment. BETA compiles the pavement data into a web-based application to allow the town to actively manage their priorities.

A total of 48.3 centerline miles were inspected during the summer of 2020. The required field inspections were performed autonomously using a smartphone application utilizing machine-learning technology. Based on the inventory in 2020, the overall Road Surface Rating (RSR) for Brewster's Town roadway network was 78.64.

The PMP allows for the Town to develop a Capital Improvement Plan (CIP) for the existing roadway network. The Town has shown a commitment to maintaining the PMP and improving its roadway network.

1.3.2 CHATHAM PAVEMENT MANAGEMENT ACTIVITIES

The Town of Chatham has retained the firm of BETA Group, Inc. (BETA) to develop a Pavement Management Program (PMP). BETA's pavement services include performing a detailed visual inspection, calculation of a Roadway Surface Rating (RSR), and recommendation of required maintenance for each roadway segment. BETA compiles the pavement data into a web-based application to allow the town to actively manage their priorities.

1.3.3 DENNIS PAVEMENT MANAGEMENT ACTIVITIES

The Town of Dennis contracted StreetLogix to provide their Pavement Management System. In 2021, the Town hired StreetLogix to perform an inventory of their roadways (approximately 142 miles) and sidewalks (approximately 29 miles). The results of the inventory completed by StreetLogix is in an interactive, web-based system, which the Town will use as a guide to determine which roads to work on and to project future budgets. The Town will use the system as a guide as yearly construction needs to consider other factors that the pavement management system cannot factor into the calculations such as funding, fairly spreading the improvements through the 5 villages in Dennis and maximizing the bids received by contractors.

Based on the inventory conducted in 2021, the Town's overall PCI rating is 80 (Good condition).

The town's road budget for pavement improvement has been consistently funded between \$400,000 to \$600,000 per year through Capital Requests for "secondary



roads” but can vary depending on other capital requests. Chapter 90 funds are also used to maintain the Town’s roads and are usually spent on larger resurfacing projects or on arterial and collector roads.

1.3.4 EASTHAM PAVEMENT MANAGEMENT ACTIVITIES

Along with a consultant, the Town of Eastham embarked on a town-wide condition and assessment survey of all its private ways and town-maintained public roads, prompted mainly by the on-going construction of its town-wide water distribution network, with the purpose of assisting in the preparation of a Capital Improvements Plan (CIP).

A summary of the survey revealed the following information:

- Eastham has a total of 114 centerline miles broken down as follows:
 - 55 miles of which are town-maintained (non-State or Federal) public roads
 - 59 miles of which are private ways
- Surface Information:
 - 54 miles of the town-maintained public roads are paved
 - 1 miles of the town-maintained public roads is unpaved
 - 25 miles of private ways are paved
 - 34 miles of private ways are unpaved
- Pavement Condition Index (PCI):
 - The average PCI, prior to the construction of the water distribution network, was 88 for paved town-maintained public roads and 79 for paved public ways

Due to the disruption created by the water distribution construction project, the Town of Eastham completed a preliminary Capital Improvements Plan to repair all roads (both public and private) affected by the project. At the 2020 Annual Town Meeting, held in the fall of 2020, the Temporary Repairs on Private Ways bylaw was also updated. This new update will provide a vehicle for residents of private ways to petition the Town for assistance with certain kinds of repairs. Once the correct mechanism to fund the necessary repairs to Eastham’s road network has been established, the Town plans to update both their current pavement management software and data in order to adequately and efficiently maintain this investment for years to come.



The Town of Eastham is also a Massachusetts Complete Streets Tier 3 community, and as such will be looking to include multimodal access options in all repairs related to its Roadway Capital Improvements Plan.

1.3.5 FALMOUTH PAVEMENT MANAGEMENT ACTIVITIES

Falmouth continues to use VUEWorks Asset Management Software to track their Public Works Assets. Their pavement rating system is based on the ASTM rating system. A survey of pavement within the town was performed over seven years ago with the help of an engineering consultant. Falmouth uses a couple of strategies to determine their repair schedule. The town has a 10-year roadway plan for major repairs. This is funded by the town operating budget and a Capital Plan. The town also has a service call/ work order system to take requests from the public for signs, potholes, sweeping and grading, etc. The town does some work in-house and contracts its crack sealing and large repairs out. These are covered by the town operating budget and Capital Plan.

1.3.6 HARWICH PAVEMENT MANAGEMENT ACTIVITIES

The DPW has a five-year road maintenance plan that is updated every year and is available on the Harwich website. The Town uses Chris Nickerson, Highway Road Manager, who is a certified pavement inspector, to develop a plan based on his experience, training, and knowledge of Harwich's 481 public roads (142 miles). The Town attempts to balance maintenance with repair to avoid costly reconstruction utilizing many different processes and procedures.

The Town of Harwich typically spends \$1.4 million on their annual road maintenance program, which is comprised from approximately \$700,000 in Chapter 90 funds and \$700,000 in a local article. The current plan focus is on installing new drainage systems ahead of the sewer project to avoid paving over old infrastructure.

1.3.7 MASHPEE PAVEMENT MANAGEMENT ACTIVITIES

The Town of Mashpee hired now Stantec in 2020 to complete a town-wide pavement assessment and included the Town's major collector roads. The Town had Stantec do an update in 2020 that also included major collector road. The report was issued in May 2020 and is being used to help prioritize projects and determine required funding levels.

The report evaluated roads in two categories - local/neighborhood and collector. Historically, Chapter 90 funds have been used for all projects on collector roads, excluding routine maintenance such as drainage installation, cracksealing, and similar treatments. This funding is no longer enough to fund "Complete Street" type projects and resurfacing. The Town must compile several years of Chapter 90 apportionments



for the larger projects so the latter will now require another funding source in order to maintain an acceptable PCI on the collector roads.

1.3.8 ORLEANS PAVEMENT MANAGEMENT ACTIVITIES

In Spring 2019, the Town of Orleans retained the firm of Vanasse Hangen Brustlin (VHB) to update the Town's pavement management system by performing pavement condition evaluations on all Town-maintained roadways and parking lots with the goal of prioritizing pavement maintenance and rehabilitation projects and analyzing budgetary needs. With this year's efforts, VHB conducted a street survey and compiled a report update. Historically, the Town performs a pavement management study update every five (5) years.

The current network PCI rating is 83, which is up from 79 in 2013. The Town appropriates about \$384,000 (increases by inflation each year) per year for pavement management above and beyond Chapter 90 funds. VHB estimates that a current budget of approximately \$660,000 per year is anticipated to maintain the average PCI over the five-year study period but will allow the backlog of work to increase due in part to inflation.

1.3.9 PROVINCETOWN PAVEMENT MANAGEMENT ACTIVITIES

Environmental Partners Group (EPG) was hired in 2016 to update the Town's pavement management program that has been used to assess existing roadway pavement conditions and establish a Capital Improvement Plan (CIP) for improvements. The planning tool continues to be utilized to establish an order-of-magnitude budget for roadway maintenance and reconstruction.

Recent roadway improvement activities include:

- Redeveloped 920 linear feet of Conwell Street between Route 6 and Cemetery Road to include dedicated bike lanes, pedestrian sidewalks, stormwater drainage improvements.
- Will perform road surface and storm drain repairs on Route 6 in October 2021.
- Currently planning stormwater improvements to West Vine Street. Work to be performed in Fall 2021.



- Currently planning road resurfacing and stormwater improvements to portions of Standish Street, Alden Street, Montello Street and Conant Street. Work to be performed in Spring 2022.
- Currently designing stormwater improvements to Howland Street.

1.3.10 SANDWICH PAVEMENT MANAGEMENT ACTIVITIES

The Town of Sandwich works with the firms Vanasse Hangen Brustlin (VHB) and Baden Consulting Services (BCS) to perform pavement management services. The study was undertaken to re-evaluate pavement conditions in Sandwich and to allow for the analysis of various funding scenarios. VHB and BCS performed detailed inspection of the condition of the pavement on all town-maintained roads and updated a database of this information using VHB's "Smart Asset Management and Inventory System" (SAM IS) software. This year's efforts are focused on updating data with recent repairs, surveying pavement conditions, and evaluating funding scenarios.

To determine road repair strategies, the town mainly uses PCI (Pavement Condition Index) and Benefit. For estimated costs for implementing various repair strategies, the town uses the County's bid process and incorporates these into their own spreadsheets. The town's 5-Year plan changes dramatically year-to-year but provides a guide to follow as funds become available.

1.3.11 TRURO PAVEMENT MANAGEMENT ACTIVITIES

Truro uses local knowledge to determine pavement repair priorities.

1.3.12 YARMOUTH PAVEMENT MANAGEMENT ACTIVITIES

The Town of Yarmouth works with the firm of Vanasse Hangen Brustlin (VHB) to perform pavement management services. VHB services consist of performing a comprehensive study to evaluate pavement conditions in Yarmouth and to allow for the analysis of various funding scenarios; perform a detailed inspection of the condition of the pavement on all town-maintained roads and update a database of this information using VHB's SAM IS (Smart Asset Management and Inventory System) software.

To determine repair strategies, the town reviews an initial list generated by the software and then decides whether to apply chip seal, double ship seal, or overlay. Main roads are treated with rubber chip seal or overlay. In the town's capital plan, annual spending ranges from \$1.3 million to \$1.5 million for roadway maintenance.

As of May 2021, the Town's PCI rating was 80.7.



1.3.13 WELLFLEET PAVEMENT MANAGEMENT ACTIVITIES

The Town of Wellfleet retained the firm of BETA Group, Inc. (BETA) to develop a Pavement Management Program (PMP) in 2015. The Town is currently looking at updating the PMP in Spring 2022.

In addition, the Town DPW actively keeps their own list and performs inspections on a regular basis. In Fall 2019, the following roads were planned to be resurfaced: sections of Long Pond Road, sections of Gull Pond Rd, Schoolhouse Hill Rd, Coles Neck Road and sections of Brown's Neck Road. The town also performed crack sealing during the Autumn of 2020 on various roads including: Chequessett Neck Road, Long Pond Road, Lecount Hollow Road, Nauset Road, Lawrence Road, Cottontail Road, Spring Valley Road, Paine Hollow Road, and Old Wharf Road.

1.4 SUMMARY OF TOWN PAVEMENT MANAGEMENT EFFORTS

The following table summarizes the activities that responding towns use for pavement management.



Table 2 – Municipal Pavement Management Activities Summary

Town	Pavement Management Consultant	Software Program	Latest Survey Year
Barnstable	BETA Group, Inc.	BETA – Microsoft Access	2020
Bourne	Environmental Partners Group	BETA – Microsoft Access	2017
Brewster	BETA Group, Inc.	BETA – Microsoft Access	2020
Chatham	BETA Group, Inc.	BETA – Microsoft Access	2018
Dennis	Streetlogix	Streetlogix	2019
Eastham	Environmental Partners Group	none	2016
Falmouth	Yes	VUEWorks Asset Management	2012
Harwich	Streetlogix	Streetlogix	2018
Mashpee	Stantec	Cartegraph Systems	2020
Orleans	VHB	VHB – SAM IS	2019
Provincetown	Environmental Partners Group	None	2016
Sandwich	VHB & BCS	VHB – SAM IS	
Truro	None	None	
Yarmouth	VHB	VHB – SAM IS	
Wellfleet	BETA Group, Inc.	BETA – Microsoft Access	2015



As seen in Table 2, most towns are hiring an engineering consulting firm to assist with field collection and the development of a pavement management plan. Several of the consulting firms provide access to a pavement management system. The use of a consultant allows a third party to perform the pavement inspections and compile the results. The consultants compile results into a user-friendly GIS application, which allows the towns to easily access and track pavement activities. A slight variation between the two consultants is that BETA classifies the pavement results using a Road Surface Rating (RSR) while VHB follows the PCI rating system. Both systems use a 0-100 scale to describe the general condition of the roadway.

2. Pavement Management Analyses

According to information prepared for the Cape Cod Regional Transportation Plan, the Cape Cod Region possesses 739 miles of roadway eligible for federal funding. Of those miles, 565.0 are under the jurisdiction of the Cape’s local communities.

MassDOT evaluates roads under their own jurisdiction and a selection of municipally owned roadways. The following table lists the corresponding rating from Excellent to Poor, based on a “PSI” (Pavement Serviceability Index) rating – roughly analogous to the “Pavement Condition Index” (PCI) commonly used.

Pavement Condition	Excellent	Good	Fair	Poor
“PSI” Range	PSI >=3.5	PSI 2.8-3.5	PSI 2.3-2.8	PSI < 2.3

2.1.1 CCC EVALUATIONS OF PAVEMENT CONDITIONS – “WINDSHIELD” SURVEYS

Since 2011, Cape Cod Commission staff have performed “windshield” surveys throughout Barnstable County. In 2014, a new data collection strategy was deployed, based on Geographic Information Systems’ needs and strengths. Data-collection regions of each town were identified which contained roughly one-third of the mileage of federal-aid eligible municipal roadways. The quality and accuracy of the data collection was greatly improved using GPS-capable tablet computers. The following figure shows the roadways that the CCC staff collected data on in 2021.



Figure 2 - Municipal Roads Surveyed in 2021



The following table provides a summary by town of the Cape Cod Commission’s windshield survey data.

Table 3 – Surveys of Pavement Condition - miles

Town	Very Good to Excellent	Good to Very Good	Fair to Good	Poor to Fair	Poor	Totals
Barnstable	3.1	19.8	76.2	12.4	0.3	111.7
Bourne	2.4	4.1	27.2	7.9	0.2	41.8
Brewster	2.7	4.2	14.1	4.6	0.9	26.5
Chatham	0.0	0.4	10.3	2.1	0.0	12.7
Dennis	0.0	10.9	34.0	0.5	0.0	45.4
Eastham	0.6	3.4	7.3	5.7	0.0	16.9
Falmouth	3.1	16.0	49.2	16.6	0.3	85.3
Harwich	0.5	11.4	26.55	4.6	0.0	43.1
Mashpee	0.0	0.8	21.8	7.0	0.0	29.5
Orleans	0.6	3.5	12.0	0.9	0.0	16.9
Provincetown	0.0	1.9	10.9	0.6	0.0	13.3
Sandwich	0.8	8.0	22.7	6.0	0.7	38.0
Truro	0.0	2.5	6.4	3.5	0.0	12.4
Wellfleet	0.7	1.8	16.6	0.6	0.0	19.7
Yarmouth	1.6	16.7	31.4	2.3	0.0	52.0
Total Miles:	16.0	105.3	366.4	75.3	2.5	565.4

Source: latest data available up to 2021, collected by Cape Cod Commission

As shown in the table above, approximately 565 miles of roadway have been surveyed at least once as recently as 2021. The most common rating “Fair to Good” yielded over 360 miles and resulted in a higher result in comparison to the 2020 observations. This is followed by 105 miles of “Good to Very Good”, 75 miles of “Poor to Fair,” approximately 16 miles for “Very Good to Excellent” and approximately 3 miles of “Poor.” The following figures provide a graphic of the CCC survey data in a series of four maps (Upper Cape, Mid-Cape, Lower Cape, and Outer Cape). The CCC evaluations are shown as colored parallel lines ranging from Blue (Very Good to Excellent) to Red (Poor).

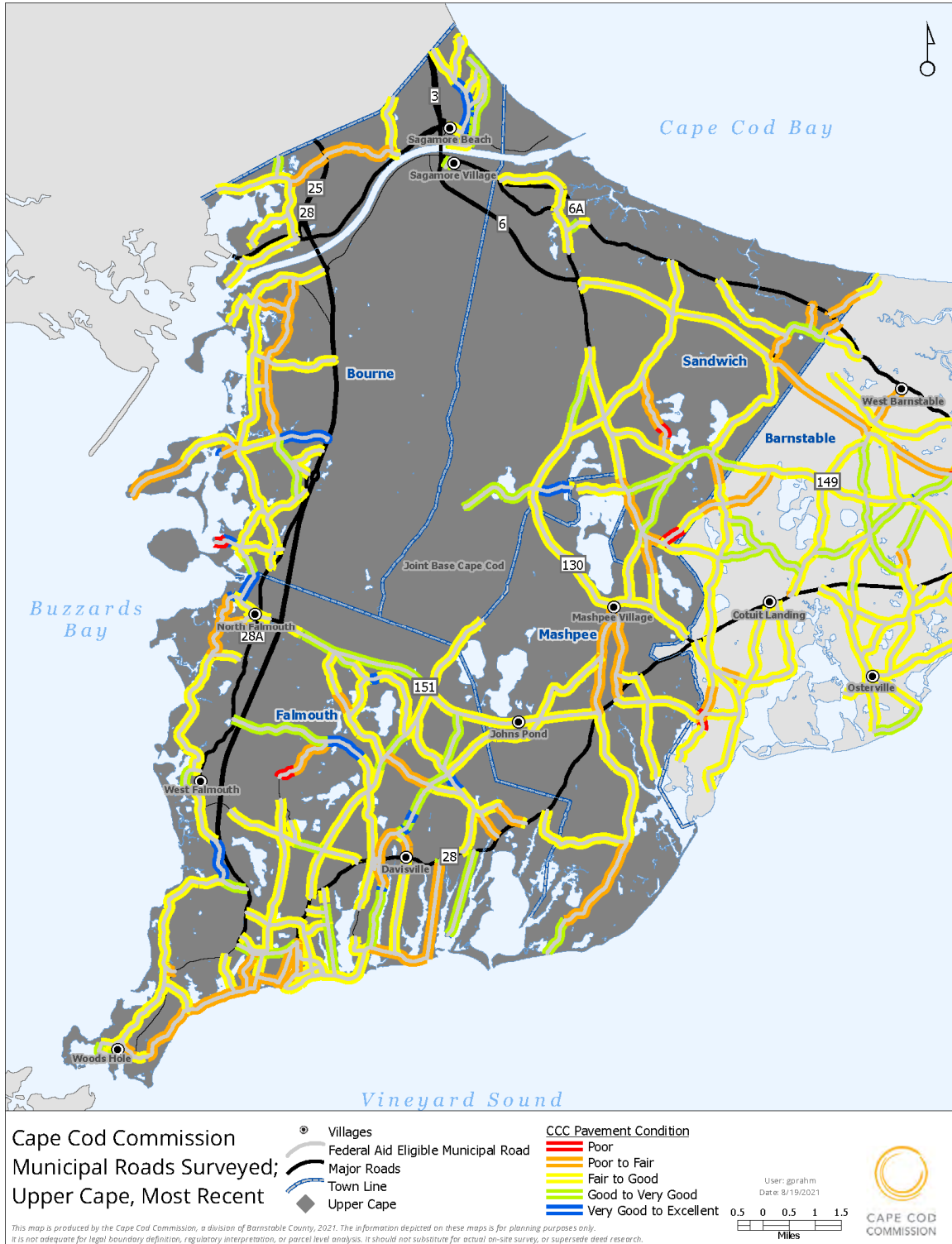


Figure 3 –Pavement Condition Surveys: Upper Cape

Source: latest data available from 2019-2021 collected by Cape Cod Commission

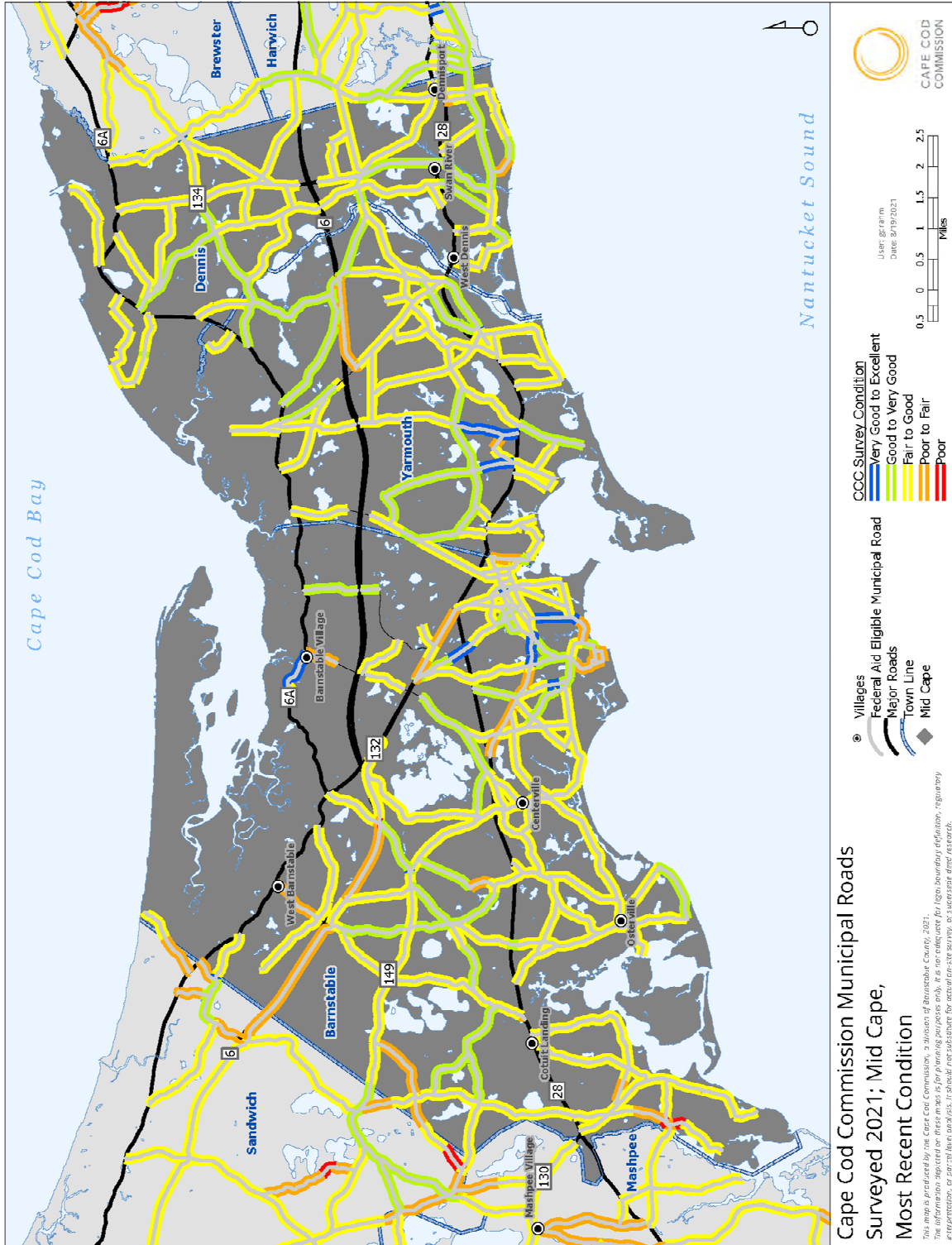


Figure 4 – Pavement Condition Surveys: Mid-Cape

Source: latest data available from 2019-2021 collected by Cape Cod Commission

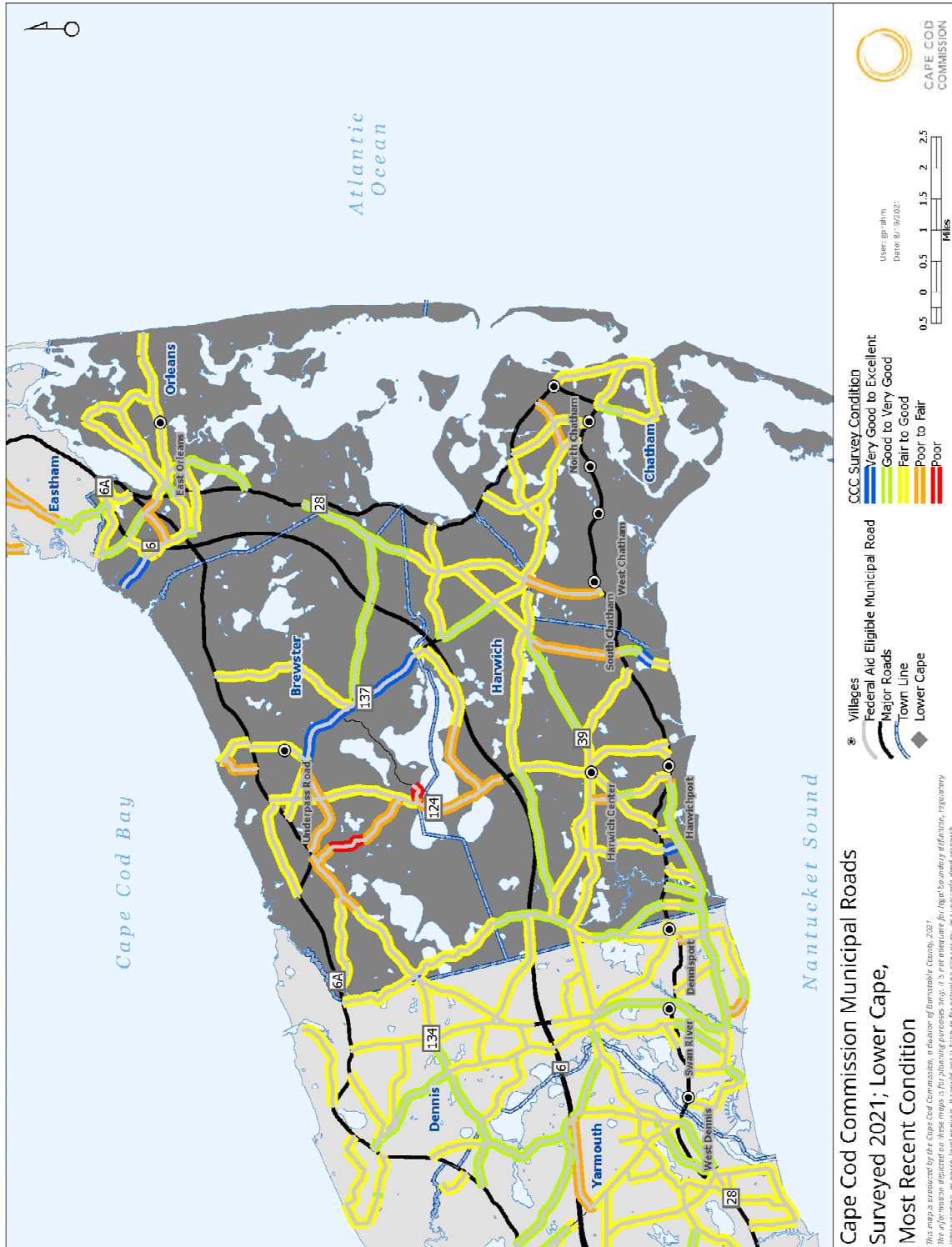


Figure 5 – Pavement Condition Surveys: Lower Cape

Source: latest data available from 2019-2021 collected by Cape Cod Commission

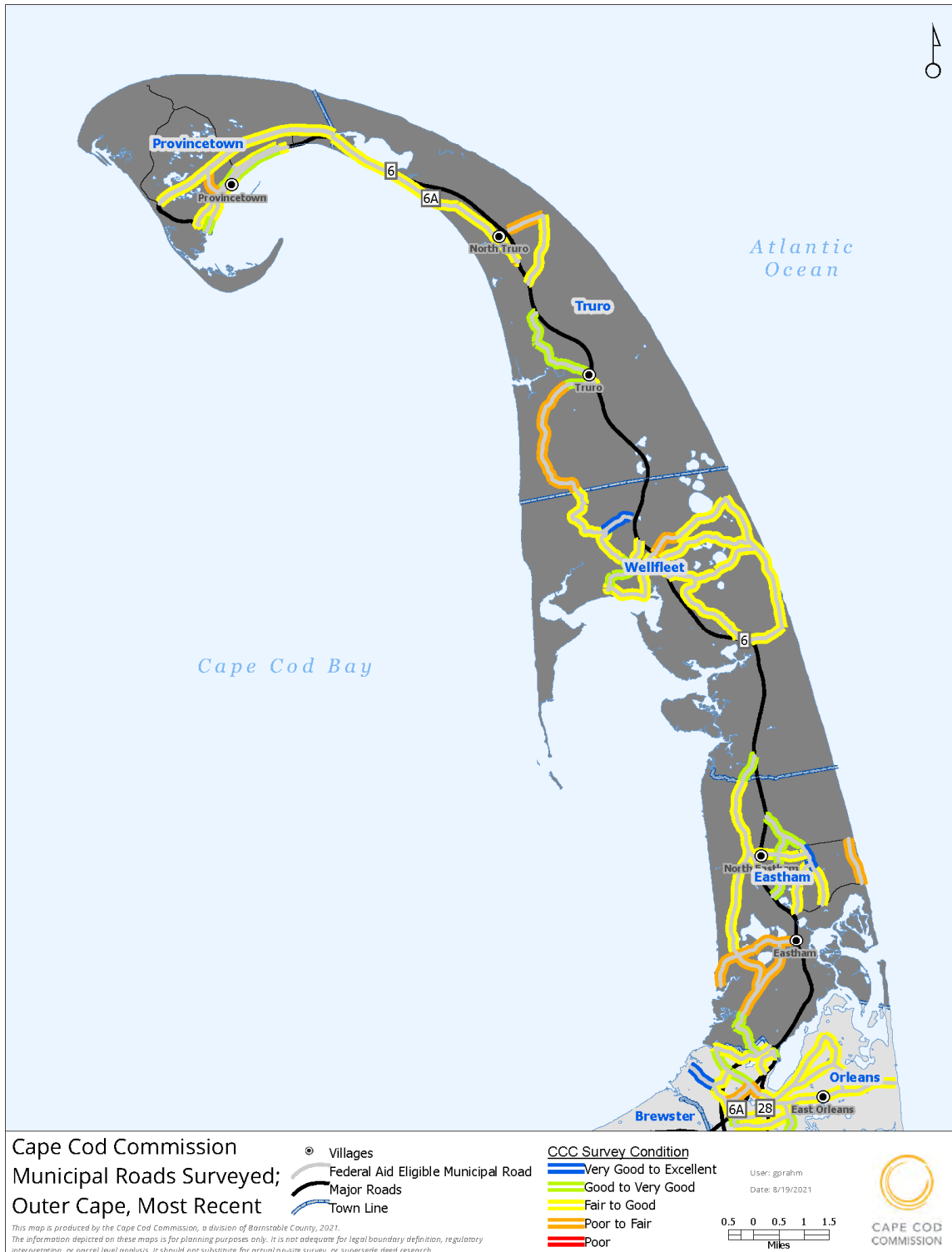


Figure 6 – Pavement Condition Surveys: Outer Cape
Source: latest data available from 2019-2021 collected by Cape Cod Commission



3. Recommendations for Achieving Improved Pavement Condition

After the pavement observations have been recorded and categorized, the next step is to calculate the pavement rating score, identify the proper treatment and appropriate timeline for maintenance.

Surface Distress Assessment

For each pavement management section, the severity and extent of nine major pavement distresses are recorded, and then entered into a weighted formula to arrive at a Pavement Condition Index (PCI). The distresses are categorized as base related or surface related distresses. Base related distresses indicate that the pavement structure is inadequate for the existing traffic load and soil conditions. Streets that show significant base related distresses may need to have the pavement structure strengthened with either thicker or stronger base or pavement materials. Surface related distresses are caused by age and weathering of the pavement. Streets that have predominantly surface related distresses are excellent candidates for maintenance sealing to inhibit further pavement oxidization (the main effect of aging). Streets with more of the base-related distresses will most likely need some full depth patching, structural overlays or reclamation/reconstruction.

The four base related distresses are:

- Potholing or non-utility patching
- Alligator cracking
- Distortion
- Rutting

The five surface related distresses are:

- Block cracking
- Transverse or longitudinal cracking
- Bleeding or polished aggregate
- Surface wear or raveling
- Shoving, slippage or corrugation

The Five Treatment Bands

The pavement management system uses broad ranges to group the individual repair types into five major treatment bands. Treatment bands are a useful tool to summarize data on a Town-wide basis. An individual road segment will fall into a category based on the strategy table's output of repair types and will vary due to functional classification. The goal is to gain a broad understanding of the existing conditions in simple yet meaningful terms.



Table 4 - Treatment Band Descriptions

TREATMENT BAND	PCI*	Description
DO-NOTHING	93-100	Excellent condition - in need of no maintenance.
ROUTINE MAINTENANCE	86-92	Good condition – may need crack sealing or minor localized repair.
PREVENTIVE MAINTENANCE	76-85	Fair condition – pavement surface may need surface sealing, full depth patch and/or crack sealing.
STRUCTURAL IMPROVEMENT	56-75	Deficient condition – pavement surface structure in need of added strength for existing traffic. Typical repairs are overlay with or without milling.
BASE REHABILITATION	0-55	Poor condition – in need of base improvement. Typical repairs are reclamation or full depth reconstruction.

**Note: Treatment bands are defined below. These are only general PCI ranges for reference purposes and represent only one pavement type. There are several fields considered by the strategy table when assigning repair types to each individual street. Source: VHB*

Do-Nothing

The Do-Nothing category exhibits roads which need no maintenance. These roads are in excellent condition and existing distresses generally do not need to be addressed.

Routine Maintenance

Routine maintenance activities are those which are taken to correct a specific pavement distress. Routine maintenance usually addresses localized pavement defects and includes activities such as:

- Full depth patching;
- Skin patching;
- Crack sealing.

Preventive Maintenance

Preventive maintenance activities are those which are performed at planned intervals to protect and seal the pavement. Seals are designed to provide one or more of the following benefits:

- Prevent the intrusion of air and moisture;



- Fill small cracks and voids;
- Rejuvenate an oxidized binder;
- Provide a new wearing surface.

Structural Improvement

Structural improvement includes the work necessary to restore the pavement to a condition that will allow it to perform satisfactorily for several years. Generally, a structural improvement will consist of a milling the existing pavement down and applying a new Hot Mix Asphalt Overlay allowing existing grades to be maintained. When the existing grade can be increased a new Hot Mix Asphalt course can simply be placed upon the existing surface. Structural improvements also include the work necessary to prepare the pavement for an overlay, either with or without milling. The major activities involved in the rehabilitation process are:

- Partial depth patching;
- Full depth patching;
- Joint and crack sealing;
- Grinding and milling;
- Hot Mix Asphalt Leveling Courses.

Base Rehabilitation

Base rehabilitation utilizes one of two methods:

- Reclamation;
- Reconstruction.

Reclamation is the process of rehabilitating existing deteriorated pavements. The existing pavement and base, subbase, and possibly subgrade is pulverized and blended to create a homogenous pavement base. This reclaimed pavement base is then paved with a new Hot Mix Asphalt surface. Reconstruction is the complete removal and replacement of a failed pavement, and might also involve widening, realignment, traffic control devices, safety hardware, and major base and drainage work.

The Cape Cod MPO is committed to exploring improved pavement management strategies and techniques to help optimize investment and achieve maximum improvement in overall PCIs.



4. Conclusion/Recommendations for Pavement Management Survey Enhancement

The data collected in the monitoring process will be continually analyzed to identify overall pavement conditions in the different Cape Cod towns to assist in programming maintenance and reconstruction activities. Cape Cod Commission staff will continue advance Pavement Management Survey activities throughout the fifteen towns of Barnstable County. Efforts will continue such as:

- Identify individual towns' methods for pavement condition evaluation and programming for improvements
- Display the Annual Pavement Survey results in a GIS web-based application to assist towns in their pavement management efforts. The GIS web application is available for public viewing on the Cape Cod Commission website: <https://www.capecodcommission.org/our-work/pavement-conditions/>
- Identify “gaps” in pavement condition information on Municipally-owned Federal Aid eligible roadways – and – prioritize and implement CCC data collection activities on these roadways
- Improve CCC skills in performing pavement evaluations
- Analyze local communities' bid prices to develop Cape-specific improvement costs of various pavement conditions
- Generate listings of roadways with poor pavement conditions
- Explore strategies and techniques for a regional pavement management plan as part of a potential Regional Capital Plan.

APPENDIX –

Cape Cod Commission Pavement Condition - Comments

Cape Cod Pavement Management Status Report 2021

STREET_NAME	TOWN	Crack_alligator	Crack_block	Crack_edge	Crack_linear	Crack_Transverse	Patched_pavement	Potholes	Sealed_cracks	Weathering	Rutting	Comments	Miles	Condition
AIRPORT ROAD	Barnstable						Yes		Yes	Minor	Major		0.40	3.00
ASA MEIGS ROAD	Barnstable	Major					Yes	Yes	No	Major			0.42	4.00
BARNSTABLE ROAD	Barnstable	Major		Minor	Minor		Yes		Yes				0.83	3.00
BASSETT LANE	Barnstable	Major				Minor	Yes		Yes	Minor			0.19	2.62
BAY VIEW STREET	Barnstable	Minor				Minor	Yes	Yes	Yes				0.91	4.00
BEARSES WAY	Barnstable	Major		Minor	Minor	Minor	Yes	Yes	Yes	Major	Minor		1.93	2.79
BRIDGE STREET	Barnstable	Minor					Yes	Yes		Minor			0.28	3.00
BUMPS RIVER ROAD	Barnstable	Minor	Minor	Minor	Major	Minor	Yes	Yes	Yes	Minor	Minor		2.74	3.00
CAMP STREET	Barnstable	Minor		Minor	Minor		Yes		Yes				0.28	3.00
CEDAR STREET WEST BARNSTABLE	Barnstable	Minor		Minor	Minor		Yes		Yes	Minor			1.38	3.18
CENTER STREET	Barnstable	Minor			Minor		Yes		Yes	Minor			0.25	3.00
CENTERVILLE AVE	Barnstable	Minor	Minor		Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.23	3.00
CHARLES STREET	Barnstable	Major			Minor	Minor	Yes	Yes	Yes				0.16	3.00
CHESTNUT STREET	Barnstable	Major			Minor	Minor	Yes	Yes	Yes				0.33	3.00
CHURCH STREET	Barnstable	Minor		Minor	Minor				Yes	Minor			0.93	3.00
CRAIGVILLE BEACH ROAD	Barnstable	Major	Minor		Minor		Yes		Yes	Minor			0.80	2.78
CRAIGVILLE BEACH ROAD	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			1.52	3.00
CROOKED CARTWAY	Barnstable	Major					Yes	Yes	No	Major			0.65	4.00
FIVE CORNERS ROAD	Barnstable	Minor		Minor	Major	Minor	Yes	Yes		Minor			0.52	3.00
FULLER ROAD	Barnstable	Minor	Minor	Minor	Major	Minor	Yes		Yes	Minor	Minor		0.61	3.00
GOSNOLD STREET	Barnstable	Major		Minor	Minor				Yes				0.57	3.00
GREAT MARSH ROAD	Barnstable												0.86	2.00
GREENWOOD AVENUE	Barnstable						Yes			Minor			0.12	3.00
HIGH SCHOOL ROAD	Barnstable	Minor					Yes		Yes	Major	Minor	- Right lane newer than left	0.32	2.33
HIGH STREET WEST BARNSTABLE	Barnstable			Minor									0.82	3.00
HOWLAND ROAD	Barnstable	Major		Major	Minor				Yes	Minor	Minor		0.19	4.00
HYANNIS AVENUE	Barnstable									Minor			0.18	2.00

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HYANNIS BARNSTABLE ROAD	Barnstable			Major				Yes		Major			0.54	4.00
IRVING AVENUE	Barnstable	Minor				Minor	Yes		Yes	Minor			0.17	4.00
IYANOUGH AVENUE	Barnstable	Minor				Minor	Yes		Yes	Minor			0.12	4.00
IYANOUGH ROAD	Barnstable	Major			Major		Yes	Yes	Yes	Major	Major		1.28	3.88
KIDD'S HILL ROAD	Barnstable						Yes			Minor			0.85	3.00
LAFAYETTE AVENUE	Barnstable	Minor				Minor	Yes		Yes	Minor			0.62	4.00
LEWIS BAY ROAD	Barnstable	Minor		Minor	Minor		Yes		Yes				0.28	3.00
LINCOLN ROAD	Barnstable				Minor					Minor			0.73	2.00
LINDEN AVENUE	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			0.13	3.00
LOVELLS LANE	Barnstable						Yes					New sidewalk	0.33	2.00
LUMBERTS MILL ROAD	Barnstable									Minor			0.95	2.00
LUMBERTS MILL ROAD	Barnstable	Minor		Minor	Minor	Minor		Yes		Minor			0.61	3.00
MAIN STREET	Barnstable	Major		Minor	Minor		Yes		Yes	Major	Minor	- Right lane newer than left	2.28	2.24
MAIN STREET	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			3.48	3.00
MAIN STREET COTUIT	Barnstable		Minor	Minor	Major	Minor	Yes	Yes	Yes		Minor		3.42	3.00
MARSTON AVENUE	Barnstable						Yes			Minor			0.26	3.00
MARY DUNN WAY	Barnstable									Minor			1.16	2.00
MEETING HOUSE WAY	Barnstable	Minor		Minor	Minor		Yes		Yes	Minor			0.91	4.00
NORTH STREET	Barnstable	Major		Minor		Minor	Yes	Yes	Yes	Minor			0.89	2.90
NOTTINGHAM DRIVE	Barnstable												0.97	2.00
NYE ROAD	Barnstable	Minor		Major			Yes	Yes		Minor			0.44	4.00
NYE ROAD	Barnstable	Minor		Minor	Minor					Minor			0.12	3.00
OAK STREET	Barnstable	Minor	Major	Major	Major		Yes	Yes	Yes	Major	Major		1.99	2.57
OCEAN AVENUE	Barnstable	Minor				Major	Yes						0.53	3.39
OCEAN STREET	Barnstable	Major		Minor	Minor		Yes		Yes	Major	Minor		0.94	2.72
OLD COLONY ROAD	Barnstable	Major		Minor	Minor		Yes		Yes	Major	Minor		1.21	3.00
OLD CRAIGVILLE ROAD	Barnstable	Minor			Minor	Minor	Yes		Yes	Minor	Minor		1.12	3.00
OLD FALMOUTH ROAD	Barnstable	Major					Yes	Yes	Yes	Minor			3.00	2.23
OLD MILL ROAD	Barnstable	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.30	3.00
OLD OYSTER ROAD	Barnstable				Major		Yes	Yes					0.42	3.00
OLD POST ROAD	Barnstable			Minor	Major	Minor	Yes						2.49	3.00
OLD POST ROAD CENTERVILLE	Barnstable	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.50	3.00

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OLD STAGE ROAD	Barnstable	Major		Major	Minor		Yes	Yes	Yes	Major			3.16	3.00
OLD STAGE ROAD	Barnstable	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.32	3.00
OLD TOWN ROAD	Barnstable	Major	Minor		Minor	Minor	Yes		Yes	Minor	Minor		0.97	2.00
OSTERVILLE WEST BARNSTABLE ROAD	Barnstable									Minor			1.90	2.00
OSTERVILLE WEST BARNSTABLE ROAD	Barnstable	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.78	2.91
PARK AVENUE	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			0.16	3.00
PARKER ROAD	Barnstable	Minor		Minor	Minor				Yes	Minor			0.69	3.00
PARKER ROAD	Barnstable	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		1.19	3.00
PHINNEYS LANE	Barnstable			Minor	Minor		Yes	Yes		Minor		-	2.33	2.29
PHINNEYS LANE	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			0.46	3.00
PINE AVENUE	Barnstable	Minor		Minor			Yes		Yes		Minor	Right lane newer than left	0.97	3.00
PINE STREET CENTERVILLE	Barnstable	Major		Minor	Minor		Yes		Yes	Major			0.30	3.00
PINE STREET CENTERVILLE	Barnstable	Minor		Minor	Minor		Yes	Yes		Minor			0.59	3.00
PITCHERS WAY	Barnstable	Minor		Minor	Minor		Yes		Yes	Minor			2.35	2.84
PLEASANT STREET	Barnstable	Minor			Minor		Yes		Yes	Major	Minor		0.19	3.00
POND STREET OSTERVILLE	Barnstable	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.97	3.00
PROSPECT STREET	Barnstable	Minor		Minor			Yes		Yes	Minor		New sidewalk	3.52	3.00
PUTNAM AVENUE	Barnstable		Minor	Minor	Major		Yes	Yes	Yes		Minor		2.18	3.00
RACE LANE	Barnstable	Minor					Yes	Yes	Yes	Minor			3.45	2.99
RIVER ROAD	Barnstable												1.64	2.00
SANDY NECK ROAD	Barnstable	Minor		Minor	Minor				Yes	Minor			0.56	3.00
SANTUIT NEWTOWN ROAD	Barnstable	Major		Minor	Minor		Yes		Yes				1.49	3.00
SANTUIT NEWTOWN ROAD	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			2.18	3.00
SANTUIT ROAD	Barnstable		Major	Minor	Major	Major	Yes	Yes	Yes		Major	Dirt Road	1.68	3.70
SCHOOL STREET	Barnstable	Major		Minor	Minor		Yes	Yes	Yes	Major	Minor		0.75	3.76
SCHOOL STREET	Barnstable		Minor	Minor	Minor	Minor	Yes	Yes	Yes		Minor		0.82	3.00
SCUDDER AVENUE	Barnstable	Minor			Minor		Yes		Yes	Major			1.39	2.86
SEA STREET	Barnstable	Minor					Yes		Yes			- Right lane newer than left	0.67	1.64
SEA VIEW AVENUE	Barnstable	Minor			Minor		Yes			Minor			1.22	2.00
SERVICE ROAD	Barnstable	Minor		Major	Minor		Yes	Yes	Yes	Minor			4.47	3.71
SHOOT FLYING HILL ROAD	Barnstable	Minor			Minor		Yes		Yes	Minor			2.95	3.00

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SMITH STREET	Barnstable									Minor			0.30	2.00
SOUTH COUNTY ROAD	Barnstable				Minor		Yes		Yes				0.98	3.00
SOUTH MAIN STREET	Barnstable	Minor		Minor	Minor		Yes	Yes	Yes	Minor			1.59	3.00
SOUTH STREET	Barnstable	Minor		Minor	Minor		Yes		Yes	Major	Minor	Right lane newer than left	1.45	3.00
STEVENS STREET	Barnstable									Minor			0.54	2.00
STRAWBERRY HILL ROAD	Barnstable	Major	Minor	Minor	Minor	Minor	Yes		Yes	Major	Minor		1.49	3.00
THE STRAIGHT WAY SOUTH SECTION	Barnstable	Minor					Yes		Yes	Minor			0.83	2.36
WAKEBY ROAD	Barnstable			Minor									0.87	2.00
WAKEBY ROAD	Barnstable	Minor		Minor	Major	Minor				Minor			0.92	3.00
WASHINGTON AVENUE HYANNISPORT	Barnstable	Minor				Minor	Yes		Yes	Minor			0.24	3.27
WEQUAQUET LANE	Barnstable	Major							Yes	Major			0.31	3.00
WEST BAY ROAD	Barnstable	Minor	Minor				Yes	Yes	Yes	Minor	Minor		0.28	3.00
WEST MAIN STREET	Barnstable	Minor		Minor	Minor	Minor	Yes		Yes	Minor	Minor		2.12	3.33
WEST MAIN STREET ROTARY CIRCLE	Barnstable									Minor			0.98	1.00
WIANNO AVENUE	Barnstable	Major	Minor	Minor	Minor		Yes	Yes	Yes	Major	Minor		1.97	3.00
WILLOW STREET HYANNIS	Barnstable	Major					Yes		Yes				0.98	3.00
WINCHESTER AVENUE	Barnstable	Minor			Minor	Minor	Yes		Yes	Major			0.75	4.00
WINTER STREET	Barnstable	Major		Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.73	3.00
YARMOUTH ROAD	Barnstable	Minor	Minor	Minor	Major		Yes	Yes	Yes	Minor	Major		1.49	2.97
ACADEMY DRIVE	Bourne	Major		Minor			Yes		Yes	Minor			0.59	3.00
ADAMS STREET	Bourne									Minor			0.23	2.00
BARLOWS LANDING ROAD	Bourne	Major		Major	Major	Minor	Yes	Yes	Yes	Minor			2.22	2.19
BEACH STREET	Bourne	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.27	3.00
BOURNEDALE ROAD	Bourne	Minor		Minor			Yes	Yes		Minor		- Rather narrow at points. Better at the start and end of the road	2.33	3.97
CANAL STREET	Bourne	Major							Yes	Minor			0.37	3.00
CLARK ROAD	Bourne	Major					Yes		Yes	Minor			0.62	3.00
CLAY POND ROAD	Bourne	Minor	Minor		Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.44	3.00

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COUNTY ROAD	Bourne	Major		Major	Minor		Yes	Yes	Yes	Major		WB new EB old	3.37	2.58
COUNTY ROAD	Bourne	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		3.37	4.00
GIBBS ROAD	Bourne	Major							Yes	Minor			0.47	3.00
HEAD OF THE BAY ROAD	Bourne	Minor		Major			Yes		Yes	Minor			2.58	3.00
HERRING POND ROAD	Bourne	Minor		Minor	Minor		Yes	Yes	Yes	Minor		- Rather narrow at points. Better at the start and end of the road	1.29	3.00
HOMESTEAD AVENUE	Bourne	Minor			Minor				Yes	Minor			0.88	3.00
INDIAN TRAIL	Bourne	Minor			Minor				Yes	Minor			0.78	3.00
LAKE DRIVE	Bourne	Minor		Minor		Minor							0.14	3.00
LAKE DRIVE EXTENSION	Bourne	Minor		Minor		Minor							0.12	3.00
LONG HILL ROAD	Bourne	Major		Minor	Minor		Yes		Yes	Major			0.26	3.00
MAIN STREET	Bourne	Major		Minor			Yes		Yes	Minor			1.26	3.00
MASHNEE ROAD	Bourne			Major	Minor		Yes	Yes	Yes				0.39	3.00
MEETINGHOUSE LANE	Bourne	Minor					Yes						0.32	3.00
MEGANSETT ROAD	Bourne	Major								Minor			0.36	1.97
MIDWAY ROAD	Bourne				Minor		Yes		Yes				0.28	3.00
MONUMENT NECK ROAD	Bourne	Minor			Minor	Minor	Yes		Yes	Minor			0.16	3.00
NORRIS ROAD	Bourne	Minor			Minor				Yes	Minor			0.71	3.00
OLD COUNTY ROAD	Bourne	Minor		Minor		Minor	Yes		Yes	Minor			0.17	3.00
OLD DAM ROAD	Bourne	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.68	4.00
OLD PLYMOUTH ROAD	Bourne	Major					Yes		Yes	Minor			1.89	1.87
PEAKED CLIFF ROAD	Bourne	Minor			Minor				Yes	Minor			0.73	3.00
PLYMOUTH LANE	Bourne									Minor			0.45	2.00
PRESIDENTS ROAD	Bourne	Minor		Major	Minor	Minor	Yes	Yes	Yes	Minor			0.45	3.00
PURITAN ROAD	Bourne	Minor		Major			Yes		Yes	Minor			0.96	3.00
RED BROOK HARBOR ROAD	Bourne	Major			Minor	Major	Yes	Yes	Yes				0.88	3.00
RED BROOK ROAD	Bourne									Minor			0.28	3.00
SAINT MARGARETS STREET	Bourne	Minor		Major			Yes		Yes	Minor			0.13	3.00
SCRAGGY NECK ROAD	Bourne	Major		Minor	Minor		Yes		Yes	Major			0.80	3.00

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SCRAGGY NECK ROAD EXTENSION	Bourne	Minor				Minor			Yes	Minor			0.24	2.40
SHORE ROAD	Bourne	Major		Minor	Minor		Yes	Yes	Yes	Major			1.49	3.00
SHORE ROAD	Bourne	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		3.98	3.00
SQUETEAGUE HARBOR ROAD	Bourne	Major		Minor	Minor	Minor	Yes	Yes	Yes				0.29	3.00
STANDISH ROAD	Bourne	Major					Yes		Yes	Minor			0.72	3.00
TROWBRIDGE ROAD	Bourne	Minor			Minor	Minor	Yes		Yes	Minor			0.62	3.00
VICKERSON AVENUE	Bourne	Minor			Minor				Yes	Minor			0.58	3.00
WILLIAMS AVENUE	Bourne	Minor				Minor	Yes	Yes	Yes	Minor			0.70	3.00
WILLISTON ROAD	Bourne									Minor			1.85	2.00
WINGS NECK ROAD	Bourne	Major		Major	Major	Minor	Yes	Yes	Yes	Minor			2.46	3.60
WINSOR ROAD	Bourne									Minor		Did not drive.Private road/property	0.27	2.42
AIRLINE ROAD	Brewster				Minor					Minor			0.34	3.00
AIRLINE ROAD	Brewster			Minor	Minor				Yes				0.67	3.00
CROWELLS BOG ROAD	Brewster	Major	Minor	Minor	Minor	Major	Yes	Yes		Major	Minor		0.33	5.00
FOSTER ROAD	Brewster	Minor	Major	Minor	Minor		Yes	Yes	Yes	Minor	Major		0.60	3.00
FREEMANS WAY	Brewster								Yes	Minor			2.79	2.00
GREAT FIELDS ROAD	Brewster	Major	Minor	Major	Minor		Yes	Yes		Major		Literally not paved - No pavement	1.84	4.32
HARWICH ROAD	Brewster	Major	Major	Minor	Minor	Major	Yes	Yes	Yes	Major	Major		2.47	3.18
LONG POND ROAD	Brewster									Minor			2.60	1.97
LONG POND ROAD	Brewster	Minor	Major	Minor	Minor		Yes	Yes	Yes	Minor	Major		0.95	3.00
LOWER ROAD	Brewster	Minor		Minor	Minor		Yes			Minor			1.62	3.00
MILLSTONE ROAD	Brewster	Major		Minor		Minor	Yes		Yes				2.50	3.00
POINT OF ROCKS ROAD	Brewster	Major	Major	Major	Major		Yes	Yes	Yes	Major	Major		0.65	3.95
SATUCKET ROAD	Brewster				Minor		Yes		Yes	Minor			1.87	3.18
SLOUGH ROAD	Brewster	Minor		Minor			Yes			Minor		Half road is patched	1.67	3.00
SOUTH ORLEANS ROAD	Brewster									Minor			1.19	2.00
STONY BROOK ROAD	Brewster						Yes			Minor		- Half patched road	2.32	3.36
TUBMAN ROAD	Brewster	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		1.55	4.00

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UNDERPASS ROAD	Brewster									Minor			0.22	2.00
UNDERPASS ROAD	Brewster				Minor								0.86	3.00
BRIDGE STREET	Chatham	Major		Minor	Minor	Minor			Yes	Minor			0.78	3.00
CROWELL ROAD	Chatham	Major			Minor		Yes		Yes				0.59	3.00
CROWELL ROAD	Chatham	Major		Minor	Minor	Minor	Yes	Yes	Yes	Major			0.84	3.00
MAIN STREET	Chatham	Major		Minor	Minor	Minor	Yes		Yes	Major	Minor		1.28	3.00
MAIN STREET ROTARY	Chatham	Minor			Minor		Yes				Minor		0.44	3.00
MEETING HOUSE ROAD	Chatham	Minor		Minor	Minor				Yes	Minor			1.20	4.00
OLD COMERS ROAD	Chatham	Minor					Yes			Minor			0.39	3.00
OLD COMERS ROAD	Chatham				Minor								0.83	3.00
OLD QUEEN ANNE ROAD	Chatham	Minor					Yes			Minor			1.34	3.00
OLD QUEEN ANNE ROAD	Chatham	Major		Minor	Minor	Minor	Yes		Yes	Major			1.18	3.00
QUEEN ANNE ROAD	Chatham	Minor	Minor	Minor	Minor				Yes	Minor			0.68	3.00
SHORE ROAD	Chatham	Major			Minor	Minor	Yes		Yes	Major			1.16	3.00
STAGE HARBOR ROAD	Chatham				Minor	Minor	Yes		Yes				0.99	2.60
STEPPING STONE ROAD	Chatham	Major		Minor	Minor	Minor	Yes		Yes	Major			0.43	4.00
STONY HILL ROAD	Chatham	Major		Minor	Minor	Minor	Yes		Yes	Major			0.45	4.00
TRAINING FIELD ROAD	Chatham	Minor								Minor			1.74	3.00
AIRLINE ROAD	Dennis				Minor					Minor			0.98	3.00
AIRLINE ROAD	Dennis	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.57	3.00
BAYVIEW ROAD	Dennis				Minor		Yes		Yes				0.24	3.00
BEACH STREET	Dennis	Minor			Minor				Yes	Minor			0.86	3.00
BOB CROWELL ROAD	Dennis	Minor		Minor	Minor	Minor	Yes	Yes	Yes	Minor			0.38	3.00
DEPOT ROAD	Dennis									Minor			0.20	2.00
DEPOT STREET	Dennis						Yes		Yes	Minor			2.14	2.81
EAST WEST DENNIS ROAD	Dennis			Minor	Minor				Yes	Minor		- Paint isn't doing so well, taken quite a beaten	2.79	2.47
EAST WEST DENNIS ROAD	Dennis	Minor	Minor	Minor	Major	Minor	Yes	Yes	Yes	Minor	Minor		3.37	3.00
ELM STREET	Dennis						Yes			Minor			0.24	3.00
FERRY STREET	Dennis	Minor	Minor		Minor		Yes		Yes				0.65	3.00
GREAT WESTERN ROAD	Dennis				Minor	Minor	Yes		Yes				1.19	3.00
HENRY DAVIS CIRCLE	Dennis	Minor	Minor		Minor		Yes		Yes	Minor			0.80	3.00
HIGHBANK ROAD	Dennis	Minor		Minor			Yes		Yes				0.17	3.00

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HIGHBANK ROAD	Dennis												0.29	2.00
HOKUM ROCK ROAD	Dennis	Major		Minor	Minor		Yes		Yes	Minor			1.57	3.00
HORSEFOOT PATH	Dennis	Minor			Minor				Yes	Minor			0.74	3.00
LIGHTHOUSE ROAD	Dennis	Minor	Minor		Minor		Yes		Yes	Minor	Minor		0.44	2.79
LORING AVENUE	Dennis	Minor	Minor		Minor		Yes		Yes				1.88	3.00
LOWER COUNTY ROAD	Dennis						Yes		Yes	Major	Minor	New surface, was not re- paved, possibility re- surfaced	2.59	2.23
MAIN STREET	Dennis						Yes			Minor			1.25	3.00
MAIN STREET	Dennis			Minor	Minor				Yes				0.43	3.00
MAYFAIR ROAD	Dennis	Minor		Minor	Minor		Yes		Yes	Minor			1.17	3.00
NEW BOSTON ROAD	Dennis	Minor			Minor				Yes	Minor			0.22	3.00
NOBSCUSSETT ROAD	Dennis	Minor					Yes		Yes				0.39	3.00
OLD BASS RIVER ROAD	Dennis	Major		Minor	Minor		Yes		Yes	Minor			1.85	2.00
OLD BASS RIVER ROAD	Dennis			Minor	Minor	Minor			Yes				2.36	3.00
OLD CHATHAM ROAD	Dennis	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.96	3.00
OLD MAIN STREET	Dennis						Yes		Yes	Major			0.42	3.00
OLD WHARF ROAD	Dennis	Minor	Major	Major	Minor	Major	Yes		Yes	Minor			1.62	3.56
SCARGO HILL ROAD	Dennis				Minor				Yes	Minor			1.23	3.00
SCHOOL STREET	Dennis									Major			0.59	3.00
SEA STREET	Dennis	Minor	Minor	Minor	Minor	Major	Yes	Yes	Yes				0.43	3.31
SESUIT NECK ROAD	Dennis	Minor			Minor		Yes		Yes	Minor			1.47	3.00
SETUCKET ROAD	Dennis				Minor		Yes		Yes	Minor			2.57	2.38
SHAD HOLE ROAD	Dennis									Minor			0.78	3.00
SHORE DRIVE	Dennis				Minor		Yes		Yes				0.65	3.00
SOUTH GAGES WAY	Dennis				Minor		Yes	Yes	Yes				0.34	3.00
SOUTH MAIN STREET	Dennis									Major			0.62	3.00
SOUTH YARMOUTH ROAD	Dennis	Minor			Major				Yes				0.78	3.00
SWAN RIVER ROAD	Dennis									Minor	Minor		0.99	2.00
TELEGRAPH ROAD	Dennis						Yes		Yes	Minor			0.65	3.00
THEOPHILUS F SMITH ROAD	Dennis	Minor			Major	Minor	Yes	Yes	Yes	Minor			0.63	3.00
TROTTING PARK ROAD	Dennis			Minor			Yes			Major	Minor		1.12	2.14

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UPPER COUNTY ROAD	Dennis						Yes		Yes	Minor			0.34	3.00
UPPER COUNTY ROAD	Dennis			Minor	Minor	Minor	Yes		Yes				2.53	2.89
WHIG STREET	Dennis						Yes			Minor			0.46	3.00
BRACKETT ROAD	Eastham	Minor		Minor	Minor		Yes		Yes			WB direction is a 1 newly paved	0.57	3.00
BRACKETT ROAD	Eastham								Yes				0.38	3.00
BRIDGE ROAD	Eastham	Major		Minor	Major		Yes		Yes	Minor		Little connection road at herring and bridge is dirt and rutted	2.54	3.31
CANAL ROAD	Eastham	Minor			Major				Yes	Minor			0.20	3.00
HERRING BROOK ROAD	Eastham	Major		Major	Major		Yes		Yes	Minor		Dirt cut through - Little connection road at herring and bridge is dirt and rutted	1.20	4.11
HERRING BROOK ROAD	Eastham		Minor	Minor	Minor	Minor	Yes		Yes		Minor		2.22	3.00
MASSASOIT ROAD	Eastham		Minor	Minor	Minor	Minor	Yes		Yes		Minor		2.74	3.00
NAUSET ROAD	Eastham	Minor		Minor	Minor	Minor	Yes		Yes	Minor		- WB direction is a 1 newly paved	2.26	2.85
OCEAN VIEW DRIVE	Eastham			Minor		Major		Yes					0.93	4.00
OLD COUNTY ROAD	Eastham			Minor	Minor	Minor	Yes		Yes				0.18	3.00
ORCHARD ROAD	Eastham									Major		- Faded paint	1.31	2.00
ROUTE 6A	Eastham												0.19	2.00
SAMOSSET ROAD	Eastham	Major		Major	Minor		Yes		Yes				2.73	4.00

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SCHOOL HOUSE ROAD	Eastham				Minor	Minor				Major			1.96	3.00
SMITH LANE	Eastham								Yes				0.27	3.00
ACAPESKET ROAD	Falmouth	Minor	Minor	Minor	Minor		Yes			Minor			1.76	2.64
ALBATROSS STREET	Falmouth									Minor			0.16	2.00
BARROWS ROAD	Falmouth	Major		Minor	Minor		Yes	Yes	Yes	Major			0.22	4.00
BLACKSMITH SHOP ROAD	Falmouth	Minor	Minor	Major			Yes						1.27	4.25
BOXBERRY HILL ROAD	Falmouth	Major	Major	Major	Minor	Minor	Yes	Yes	Yes	Major	Minor		2.57	2.70
BRICK KILN ROAD	Falmouth	Minor	Minor	Minor	Major		Yes	Yes	Yes	Minor	Minor		2.66	2.79
CARRIAGE SHOP ROAD	Falmouth	Major		Minor	Minor		Yes	Yes	Yes	Major			3.17	3.52
CENTRAL AVENUE	Falmouth				Minor		Yes	No	Yes	Minor			1.90	4.00
CHESTER STREET	Falmouth	Major			Major	Major	Yes		Yes	Minor			0.83	3.49
CLINTON AVENUE	Falmouth	Major	Minor	Minor	Minor		Yes	Yes	Yes	Major	Minor		0.43	4.00
COUNTY ROAD	Falmouth	Major				Minor	Yes		Yes				0.53	3.00
CROSS ROAD	Falmouth	Major		Minor	Minor		Yes	Yes	Yes	Major			0.39	3.99
CURLEY BOULEVARD	Falmouth	Major					Yes		Yes	Minor			0.56	3.00
CURRIER ROAD	Falmouth	Major		Minor	Minor		Yes		Yes	Major			1.18	2.11
DAVISVILLE ROAD	Falmouth				Minor		Yes		Yes	Minor			1.87	3.00
ELYSIAN AVENUE	Falmouth	Major	Major	Minor	Minor	Minor	Yes	Yes	Yes	Major	Major		0.35	3.00
EMERSON ROAD	Falmouth			Minor	Minor								0.18	3.00
FALMOUTH HEIGHTS ROAD	Falmouth	Major	Major	Minor	Minor	Minor	Yes	Yes	Yes	Major	Major		1.92	3.55
FALMOUTH-SANDWICH ROAD	Falmouth	Major		Minor	Major		Yes		Yes	Major			0.86	3.00
FRESH POND ROAD	Falmouth	Minor			Minor		Yes		Yes	Minor			0.92	3.00
GARNET AVENUE	Falmouth												0.56	1.00
GIFFORD STREET	Falmouth	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		2.43	3.00
GIFFORD STREET EXTENSION	Falmouth	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		0.73	3.00
GRAND AVENUE	Falmouth	Minor	Minor		Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.25	3.34
HARBOR HILL ROAD	Falmouth	Major	Minor	Minor	Minor	Minor	Yes	Yes		Major	Minor		0.43	4.00
HATCHVILLE ROAD	Falmouth	Major	Major	Major		Minor	Yes	Yes	Yes	Major			2.59	3.00
HAYWAY ROAD	Falmouth	Major		Minor	Minor		Yes		Yes	Major			1.86	2.55
JERICHO PATH	Falmouth	Major	Major	Minor	Minor	Minor	Yes	Yes	Yes	Major	Major		0.62	3.00
JOHN PARKER ROAD	Falmouth	Major		Minor	Minor		Yes	Yes	Yes	Minor			1.35	3.00
JONES ROAD	Falmouth	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		1.12	3.00
KATHERINE LEE BATES ROAD	Falmouth	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		0.63	3.00
LOCUSTFIELD ROAD	Falmouth	Minor		Minor	Minor		Yes	Yes	Yes	Minor			0.42	3.00
MAIN STREET	Falmouth	Minor	Minor		Minor	Minor	Yes		Yes	Minor	Minor		1.27	2.41
MARAVISTA AVENUE	Falmouth	Major			Minor		Yes						1.24	2.00

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MARAVISTA AVENUE	Falmouth			Minor	Minor	Minor	Yes						0.49	3.00
MARAVISTA AVENUE EXTENSION	Falmouth			Minor	Minor				Yes	Minor			0.46	2.64
MEETING HOUSE ROAD	Falmouth			Major	Minor			Yes					0.57	3.74
MENAUHANT ROAD	Falmouth	Major		Minor	Minor		Yes		Yes	Minor			2.50	3.47
MILL ROAD	Falmouth	Major	Minor	Major	Minor		Yes	Yes	Yes	Major	Minor		0.77	3.00
MILLFIELD STREET	Falmouth				Minor		Yes			Minor			0.26	3.00
NASHAWENA STREET	Falmouth	Major		Minor		Major	Yes		Yes	Minor			1.50	2.58
NATHAN ELLIS HIGHWAY	Falmouth	Minor	Major	Major	Minor		Yes		Yes	Major	Minor		4.41	2.37
NOBSKA ROAD	Falmouth				Minor								0.25	3.00
OLD BARNSTABLE ROAD	Falmouth	Major		Minor	Minor		Yes	Yes	Yes	Major		Bridge at start has several sealed cracks	2.99	2.79
OLD DOCK ROAD	Falmouth						Yes	Yes		Minor			0.15	3.00
OLD MAIN ROAD	Falmouth												0.38	3.00
OX BOW ROAD	Falmouth				Minor		Yes		Yes				0.55	3.00
OYSTER POND ROAD	Falmouth	Major	Minor	Major	Minor		Yes	Yes	Yes	Major	Minor		2.33	3.64
PALMER AVENUE	Falmouth	Major						Yes		Minor		- SB side follows this. NB is recently paved/new	1.33	1.40
PINE STREET	Falmouth	Major		Minor		Minor	Yes		Yes				0.23	3.00
QUAKER ROAD	Falmouth	Major		Minor	Major	Major	Yes		Yes	Minor			2.86	3.26
QUISSETT AVENUE	Falmouth	Yes	Minor	Minor				Yes	Yes	Minor			1.58	3.00
RANDOLPH STREET	Falmouth				Minor		Yes						0.20	3.00
RANSOM ROAD	Falmouth	Major	Minor	Minor				Yes		Minor			0.22	4.00
RED BROOK ROAD	Falmouth	Major					Yes		Yes	Minor			0.80	3.00
SAM TURNER ROAD	Falmouth	Major	Major	Major	Minor	Minor	Yes	Yes		Minor			1.38	3.25
SANDWICH ROAD	Falmouth	Major	Minor	Minor	Major		Yes	Yes	Yes	Major	Minor		5.76	2.85
SCHOOL STREET	Falmouth	Minor			Minor	Minor	Yes	Yes		Minor			0.24	2.19
SCRANTON AVENUE	Falmouth			Minor	Minor		Yes		Yes				0.77	4.00
SEACOAST SHORES BOULEVARD	Falmouth						Yes						1.69	2.00
SHORE STREET	Falmouth	Major	Minor	Major	Minor	Minor	Yes	Yes	Yes	Major	Minor		0.68	3.33

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SHOREVIEW AVENUE	Falmouth			Minor	Minor								0.29	3.00
SHOREWOOD DRIVE	Falmouth			Minor			Yes	Yes					1.00	3.00
SIPPEWISSETT ROAD	Falmouth	Major	Minor	Major			Yes	Yes	Yes	Minor			2.90	3.00
SPRING BARS ROAD	Falmouth	Minor			Minor		Yes	Yes	Yes	Minor			0.32	3.00
SURF DRIVE	Falmouth	Major	Minor	Major	Minor		Yes	Yes	Yes	Major	Minor		1.36	4.00
THATCHERS LANE	Falmouth			Minor	Minor		Yes	Yes		Minor			0.21	3.00
THOMAS B LANDERS ROAD	Falmouth	Minor		Minor	Minor		Yes	Yes	Yes	Major			2.93	1.86
TURNER ROAD	Falmouth	Minor		Minor	Minor		Yes	Yes	Yes	Minor			0.52	3.00
WALKER STREET	Falmouth	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		0.76	4.00
WATER STREET	Falmouth				Minor		Yes	Yes		Minor			0.28	2.76
WEST FALMOUTH HIGHWAY	Falmouth	Major						Yes				SB side follows this. NB is recently paved/new	1.23	3.00
WILD HARBOR ROAD	Falmouth	Major			Major	Major	Yes		Yes	Minor			0.49	4.00
WORCESTER AVENUE	Falmouth	Major	Major	Minor	Minor	Minor	Yes	Yes	Yes	Major	Major		0.13	3.00
WORCESTER COURT	Falmouth	Major	Major	Minor	Minor	Minor	Yes	Yes	Yes	Major	Major		1.17	3.00
BANK STREET	Harwich	Major	Minor	Minor	Minor	Minor	Yes		Yes	Major	Minor		1.38	3.00
BELMONT ROAD	Harwich						Yes	Yes					0.64	2.42
BROOKS ROAD	Harwich				Minor	Minor	Yes			Minor			0.23	3.00
CHASE STREET	Harwich						Yes		Yes	Minor		- New surface, was not re-paved, possibility re-surfaced	0.62	2.94
CHATHAM ROAD	Harwich	Major							Yes	Minor			1.48	3.00
CHURCH STREET	Harwich	Minor		Major			Yes		Yes	Minor			1.27	3.00
DEPOT ROAD	Harwich	Major		Minor	Minor		Yes		Yes	Minor			2.25	3.28
DEPOT STREET	Harwich	Minor	Minor	Minor		Minor	Yes	Yes	Yes	Major	Minor		0.73	2.52
DEPOT STREET	Harwich						Yes						0.96	2.00

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EARLE ROAD	Harwich								Yes			- New surface, was not re-paved, possibility re-surfaced	0.29	1.34
FREEMAN STREET	Harwich	Minor	Minor		Minor		Yes	Yes	Yes	Minor	Minor		0.33	3.00
GREAT WESTERN ROAD	Harwich	Major	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Major	Minor		2.24	3.00
LONG POND DRIVE	Harwich				Minor	Minor	Yes		Yes				2.74	3.47
LOTHROP AVENUE	Harwich	Major	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Major	Minor		1.44	3.00
LOWER COUNTY ROAD	Harwich								Yes			New surface, was not re-paved, possibility re-surfaced	2.16	2.00
MAIN STREET	Harwich	Minor	Minor	Minor			Yes	Yes	Yes	Major	Minor		1.48	3.00
MAIN STREET	Harwich	Major	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Major	Minor		1.60	3.00
OLD CHATHAM ROAD	Harwich					Minor	Yes		Yes				0.63	3.00
OLD QUEEN ANNE ROAD	Harwich	Minor		Minor	Minor		Yes		Yes	Minor			0.11	3.00
ORLEANS ROAD	Harwich	Major	Minor	Major	Minor		Yes		Yes	Major		Major patching -	4.69	2.54
PLEASANT BAY ROAD	Harwich	Major		Major	Minor		Yes		Yes	Major			1.92	2.95
PLEASANT LAKE AVENUE	Harwich	Major		Minor	Minor	Minor	Yes		Yes	Major			2.67	3.56
QUEEN ANNE ROAD	Harwich	Minor	Minor	Minor	Minor		Yes		Yes	Minor		- Half new patch	2.99	3.00
QUEEN ANNE ROAD	Harwich				Minor								2.17	2.00
RIVERSIDE DRIVE	Harwich												0.57	2.00
ROUTE 137	Harwich	Minor		Minor	Minor		Yes		Yes	Minor			1.72	2.39
ROUTE 137	Harwich				Minor								0.18	3.00
SISSON ROAD	Harwich						Yes						0.86	3.00
SISSON ROAD	Harwich	Minor		Minor	Minor	Minor	Yes		Yes	Minor			0.59	3.00
SOUTH STREET	Harwich	Minor		Major	Minor		Yes	Yes	Yes	Minor			1.41	3.11
UNCLE VENIES ROAD	Harwich									Minor			0.26	3.00
ASHERS PATH EAST	Mashpee				Minor	Minor							0.43	3.00

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BOARDLEY ROAD	Mashpee	Minor		Minor	Minor				Yes	Minor			0.12	2.00
COTUIT ROAD	Mashpee	Major		Major	Major	Minor	Yes	Yes	Yes	Major	Minor		1.72	3.53
FALMOUTH-SANDWICH ROAD	Mashpee	Major		Minor	Major		Yes		Yes	Major			0.72	3.00
GREAT NECK ROAD NORTH	Mashpee	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		2.28	4.00
GREAT NECK ROAD SOUTH	Mashpee	Major			Minor		Yes		Yes	Minor			2.68	3.00
GREAT OAK ROAD	Mashpee	Major		Minor	Minor		Yes		Yes	Minor			2.83	3.46
LOWELL ROAD	Mashpee	Minor	Minor	Minor	Minor	Minor	Yes		Yes	Minor	Minor		0.86	3.00
MAIN STREET	Mashpee	Minor		Minor		Minor	Yes		Yes	Minor	Minor		4.13	3.00
MASHPEE NECK ROAD	Mashpee			Minor	Minor	Minor	Yes	Yes	Yes				1.52	3.00
MEETINGHOUSE ROAD	Mashpee	Minor	Minor	Minor	Minor	Minor	Yes	Yes	Yes	Minor	Minor		1.73	4.00
MONOMOSCOY ROAD	Mashpee	Major					Yes		Yes	Minor			0.33	3.00
NATHAN ELLIS HIGHWAY	Mashpee	Major		Minor	Minor		Yes		Yes	Major			2.31	3.00
OLD BARNSTABLE ROAD	Mashpee	Minor		Minor					Yes	Minor			1.22	3.00
OLD BARNSTABLE ROAD	Mashpee	Minor	Minor	Minor	Minor	Minor	Yes		Yes	Minor	Minor		1.80	3.00
ORCHARD ROAD	Mashpee			Minor	Minor	Minor	Yes	Yes					0.51	3.00
PIMLICO POND ROAD	Mashpee	Major		Major	Major		Yes	Yes	Yes	Major			0.99	3.23
QUINAQUISSET AVENUE	Mashpee			Minor	Minor	Minor	Yes	Yes					1.73	3.00
RED BROOK ROAD	Mashpee	Major					Yes		Yes	Minor			1.43	3.00
SOUTH SANDWICH ROAD	Mashpee	Minor		Major		Minor	Yes		Yes	Minor	Minor		1.22	3.00
WAKEBY ROAD	Mashpee	Minor		Minor	Major	Minor				Minor			0.76	3.00
BEACH ROAD	Orleans				Minor		Yes		Yes				1.54	3.00
BRICK HILL ROAD	Orleans			Minor	Minor		Yes		Yes				1.34	3.00
BRIDGE ROAD	Orleans	Major			Minor		Yes		Yes				0.19	2.00
CANAL ROAD	Orleans	Minor			Major				Yes	Minor			0.57	3.00
ELDREDGE PARK WAY	Orleans	Minor			Minor				Yes				0.73	3.00
FINLAY ROAD	Orleans	Minor		Minor		Minor			Yes				0.67	3.00
HARWICH ROAD	Orleans												0.66	2.00
HOPKINS LANE	Orleans			Minor	Minor		Yes		Yes				0.99	3.00
LOTS HOLLOW ROAD	Orleans												0.18	2.00
MAIN STREET	Orleans	Minor			Minor		Yes						0.75	3.11
MAIN STREET	Orleans				Minor		Yes	Yes	Yes				1.43	3.00
MONUMENT ROAD	Orleans									Minor			1.22	2.00
MONUMENT ROAD	Orleans				Minor		Yes	Yes	Yes				0.28	3.00
OLD COLONY WAY	Orleans	Major			Minor	Minor	Yes	Yes	Yes	Minor			0.67	4.00
POND ROAD	Orleans	Minor		Minor		Minor	Yes		Yes				0.46	3.00
ROCK HARBOR ROAD	Orleans	Major			Minor		Yes		Yes				1.97	2.62

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ROUTE 6A	Orleans												0.24	2.00
SKAKET BEACH ROAD	Orleans	Minor				Minor			Yes	Minor			1.57	1.85
TONSET ROAD	Orleans	Minor											0.23	2.00
TONSET ROAD	Orleans			Minor	Minor		Yes		Yes				1.69	3.00
WEST ROAD	Orleans	Minor			Minor	Minor			Yes	Minor			0.75	3.00
BRADFORD STREET	Provincetown	Minor			Minor		Yes			Minor			1.52	2.63
BRADFORD STREET	Provincetown	Minor					Yes			Minor			0.85	3.00
COMMERCIAL STREET	Provincetown						Yes			Minor			2.58	2.46
CONWELL STREET	Provincetown	Minor			Minor		Yes			Minor			0.83	3.00
ROUTE 6	Provincetown	Minor		Minor	Minor	Minor	Yes			Major	Minor		7.77	3.00
SHANK PAINTER ROAD	Provincetown	Minor			Minor		Yes		Yes	Minor			0.55	4.00
ASA MEIGGS ROAD	Sandwich	Minor		Major		Minor	Yes	Yes	Yes	Major			0.57	3.59
BEALE AVENUE	Sandwich												0.36	2.00
BOARDLEY ROAD	Sandwich	Minor		Minor	Minor				Yes	Minor			1.25	2.00
CHASE ROAD	Sandwich	Minor		Major	Minor		Yes		Yes	Major			0.43	3.94
CHASE ROAD	Sandwich				Minor								0.62	3.00
COTUIT ROAD	Sandwich	Major		Major	Major	Minor	Yes	Yes	Yes	Major			1.85	3.52
COTUIT ROAD	Sandwich	Major	Minor		Major	Minor	Yes		Yes	Major	Minor		1.39	3.00
FALMOUTH-SANDWICH ROAD	Sandwich	Major		Minor	Major		Yes		Yes	Major			0.17	3.00
FARMERSVILLE ROAD	Sandwich	Major		Major			Yes		Yes	Major			2.29	2.68
FORESTDALE ROAD	Sandwich	Minor		Minor	Minor	Minor	Yes		Yes	Minor	Minor		1.72	3.00
FORESTDALE ROAD	Sandwich	Major			Major		Yes		Yes	Major			1.74	2.45
GREAT HILL ROAD	Sandwich								Yes	Minor			0.38	2.00
GREAT HILL ROAD	Sandwich				Minor								1.74	3.00
HARLOW ROAD	Sandwich	Minor		Minor	Minor	Minor			Yes	Minor			1.29	2.00
HOWLAND LANE	Sandwich	Major		Major	Minor				Yes	Minor	Minor		0.34	3.87
JONES LANE	Sandwich	Minor		Major	Minor				Yes	Minor			0.56	3.59
MAIN STREET	Sandwich	Minor		Minor		Minor	Yes		Yes	Minor	Minor		0.17	3.00
MAIN STREET	Sandwich	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		0.24	3.00
MEIGGS BACKUS ROAD	Sandwich		Minor	Major						Major			0.44	3.00
MEIGS BACKUS RD	Sandwich		Minor	Major						Major		- Dirt road, one lane drive	0.53	4.77
NEWTOWN ROAD	Sandwich	Major		Major			Yes		Yes	Major			0.55	3.89
OLD COUNTY ROAD	Sandwich			Minor									2.64	2.68
PIMLICO POND ROAD	Sandwich						Yes			Minor			0.70	1.00

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PINKHAM ROAD	Sandwich	Major	Minor	Major	Minor		Yes	Yes	Yes	Major	Minor		1.34	4.20
QUAKER MEETING HOUSE ROAD	Sandwich	Minor		Minor	Minor				Yes	Minor	Minor		1.14	3.00
QUAKER MEETING HOUSE ROAD	Sandwich	Major	Minor		Minor	Minor	Yes		Yes	Major	Minor		3.24	3.00
RACE LANE	Sandwich								Yes	Minor			0.40	2.00
SANDY NECK ROAD	Sandwich	Minor		Minor	Minor		Yes	Yes	Yes	Minor			0.70	4.00
SERVICE ROAD	Sandwich	Minor		Major	Minor		Yes	Yes	Yes	Minor	Minor		4.86	3.13
SNAKE POND ROAD	Sandwich	Minor			Minor	Minor			Yes	Minor	Minor		1.73	2.00
SOUTH SANDWICH ROAD	Sandwich	Minor		Major			Yes		Yes	Minor			0.30	2.99
STOWE ROAD	Sandwich			Minor	Minor	Minor		Yes	Yes				0.34	4.00
TUPPER ROAD	Sandwich	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		1.76	3.00
WATER STREET	Sandwich	Minor	Minor	Minor	Minor		Yes	Yes	Yes	Minor	Minor		0.83	3.00
CASTLE ROAD	Truro	Minor		Minor	Minor					Minor			1.99	2.00
DEPOT ROAD	Truro												0.52	2.00
HIGHLAND ROAD	Truro	Minor	Minor	Major	Minor	Major	Yes	Yes		Minor	Minor		0.74	4.00
OLD COUNTY ROAD	Truro	Minor	Minor	Minor	Major	Minor	Yes	Yes		Major			2.75	4.00
OLD ROUTE 6A	Truro	Minor		Minor	Minor					Minor			0.35	3.00
SHORE ROAD	Truro	Minor		Minor	Minor		Yes		Yes	Minor			4.53	3.00
SOUTH HIGHLAND ROAD	Truro			Minor	Minor								1.45	3.00
BOUND BROOK ISLAND ROAD	Wellfleet			Major		Minor	Yes		Yes				0.84	3.00
BRIAR LANE	Wellfleet	Major				Minor	Yes		Yes				0.53	3.00
CAHOONS HOLLOW ROAD	Wellfleet	Minor			Minor		Yes		Yes				2.32	3.00
CHEQUESSETT NECK ROAD	Wellfleet	Minor			Minor				Yes				0.77	2.77
COLE NECK ROAD	Wellfleet			Major					Yes				0.70	1.00
COLES NECK ROAD	Wellfleet			Major		Minor	Yes		Yes				0.51	3.00
COMMERCIAL STREET	Wellfleet	Minor			Minor				Yes				0.57	3.00
EAST COMMERCIAL STREET	Wellfleet	Minor			Minor				Yes				0.22	3.00
GROSS HILL ROAD	Wellfleet								Yes				1.92	3.32
HOLBROOK AVENUE	Wellfleet												0.82	2.00
KENDRICK AVENUE	Wellfleet	Minor			Minor				Yes				0.79	3.00
LECOUNT HOLLOW ROAD	Wellfleet			Minor		Minor			Yes				0.77	3.00
LONG POND ROAD	Wellfleet	Minor			Minor			Yes	Yes				2.16	3.00
LONG POND ROAD	Wellfleet			Minor		Minor			Yes				0.38	3.00
MAIN STREET	Wellfleet	Minor				Minor	Yes		Yes				0.74	3.00
OCEANVIEW DRIVE	Wellfleet			Minor		Minor			Yes				2.92	3.00
OLD COUNTY ROAD	Wellfleet			Major			Yes						0.34	3.00
OLD COUNTY ROAD SOUTH	Wellfleet	Minor			Minor		Yes		Yes	Minor			1.89	3.00

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PAMET POINT ROAD	Wellfleet			Major		Minor	Yes		Yes				0.28	3.00
POLE DIKE ROAD	Wellfleet			Major					Yes				0.67	3.00
SCHOOL STREET	Wellfleet	Minor				Minor	Yes		Yes				0.31	3.00
SCHOOL STREET	Wellfleet								Yes				0.18	4.00
WEST MAIN STREET	Wellfleet	Major		Major		Minor	Yes		Yes				0.52	2.41
WEST ROAD	Wellfleet												0.59	2.00
WHITS LANE	Wellfleet												0.84	2.00
ABELLS ROAD	Yarmouth								Yes	Minor			0.37	3.00
BAXTER AVENUE	Yarmouth				Minor	Minor	Yes		Yes	Minor			0.82	3.00
BAYVIEW STREET	Yarmouth	Minor			Major	Minor	Yes	Yes	Yes	Minor			0.54	3.45
BERRY AVENUE	Yarmouth				Minor					Minor			0.66	3.00
BRAY FARM ROAD NORTH	Yarmouth	Major		Minor	Minor		Yes		Yes	Minor			0.14	3.00
BRAY FARM ROAD SOUTH	Yarmouth	Major		Minor	Minor		Yes		Yes	Minor			0.40	3.00
BROADWAY	Yarmouth				Minor					Minor			0.24	3.00
BUCK ISLAND ROAD	Yarmouth								Yes	Minor	Minor		2.58	2.00
BUCK ISLAND ROAD	Yarmouth												0.20	2.00
CAMP STREET	Yarmouth		Minor	Minor	Minor		Yes		Yes	Minor	Minor		1.13	2.39
CAPTAIN SMALL ROAD	Yarmouth	Minor		Minor	Minor		Yes		Yes	Minor			0.18	3.00
CENTER STREET	Yarmouth				Minor				Yes				0.79	3.00
COTTAGE DRIVE	Yarmouth				Minor	Minor			Yes	Minor			0.57	3.00
FOREST ROAD	Yarmouth	Minor		Minor	Minor		Yes	Yes	Yes	Minor			2.16	3.00
GLENWOOD STREET	Yarmouth				Minor	Minor	Yes		Yes	Minor			0.20	3.00
GREAT WESTERN ROAD	Yarmouth	Minor		Minor	Minor		Yes		Yes				1.30	2.00
HARBOR ROAD	Yarmouth				Minor	Minor	Yes		Yes	Minor			0.29	3.00
HIGGINS CROWELL ROAD	Yarmouth						Yes		Yes	Minor			2.82	1.82
HIGHBANK ROAD	Yarmouth	Minor		Minor	Minor		Yes		Yes				1.79	3.00
HIGHLAND STREET	Yarmouth				Minor	Minor	Yes		Yes	Minor			0.38	3.00
LEWIS ROAD	Yarmouth				Minor					Minor			0.59	3.00
LONG POND DRIVE	Yarmouth	Minor			Minor		Yes		Yes				0.95	3.00
LONG POND DRIVE	Yarmouth	Minor			Minor		Yes	Yes	Yes	Minor			0.92	3.00
MAYFAIR ROAD	Yarmouth	Minor		Minor	Minor		Yes		Yes	Minor			0.26	3.00

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NORTH DENNIS ROAD	Yarmouth	Minor			Major		Yes		Yes	Minor		- We are driving at a slant (road not even). Huge swaths of patches	2.29	2.11
NORTH MAIN STREET	Yarmouth	Minor			Major		Yes		Yes				1.76	2.93
OLD CHURCH STREET	Yarmouth				Minor				Yes				0.33	3.00
OLD MAIN STREET	Yarmouth												0.95	2.00
OLD MAIN STREET	Yarmouth			Minor	Minor	Minor	Yes		Yes				0.28	3.00
OLD TOWN HOUSE ROAD	Yarmouth			Minor	Minor	Minor	Yes		Yes				1.15	3.00
PARK AVENUE	Yarmouth				Minor	Minor	Yes		Yes	Minor			0.28	3.00
PINE GROVE ROAD	Yarmouth			Minor	Minor	Minor	Yes	Yes	Yes				0.88	3.00
PLAYGROUND LANE	Yarmouth				Minor				Yes				0.18	3.00
RAYMOND AVENUE	Yarmouth	Minor			Minor		Yes		Yes	Minor			0.35	3.00
REGIONAL AVENUE	Yarmouth	Minor			Minor		Yes		Yes	Minor			0.46	3.00
SCHOLL AVENUE	Yarmouth				Minor	Minor			Yes	Minor			0.28	4.00
SEAVIEW AVENUE	Yarmouth			Minor	Minor		Yes		Yes				0.76	3.00
SETUCKET ROAD	Yarmouth	Minor			Minor				Yes				1.83	2.00
SHERIDAN ROAD	Yarmouth	Minor			Minor		Yes		Yes				0.17	3.00
SILVER LEAF LANE	Yarmouth				Minor	Minor	Yes			Major			0.62	3.00
SOMERSET STREET	Yarmouth				Minor	Minor	Yes		Yes	Minor			0.11	3.00
SOUTH SEA AVENUE	Yarmouth				Minor	Minor	Yes		Yes	Major			1.96	2.00
SOUTH SHORE DRIVE	Yarmouth			Minor	Minor	Minor	Yes	Yes	Yes				0.94	3.00
SOUTH STREET	Yarmouth			Minor	Minor	Minor	Yes		Yes				0.86	3.00
STATION AVENUE	Yarmouth	Minor		Minor	Minor		Yes		Yes	Minor			1.98	3.00
STRAWBERRY LANE	Yarmouth			Major		Minor	Yes		Yes				0.37	3.00
TOWN BROOK ROAD	Yarmouth				Minor		Yes			Minor	Minor		0.32	3.00
UNION STREET	Yarmouth												1.59	2.00
WEIR ROAD	Yarmouth				Minor				Yes				0.70	2.00
WEST GREAT WESTERN ROAD	Yarmouth				Minor		Yes		Yes				1.44	2.00
WEST YARMOUTH ROAD	Yarmouth									Minor			1.76	1.41
WEST YARMOUTH ROAD	Yarmouth			Minor		Minor	Yes		Yes				2.82	3.00
WHITE ROCK ROAD	Yarmouth			Major		Minor	Yes		Yes				1.80	3.00

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WHITES PATH	Yarmouth	Minor		Minor	Minor		Yes		Yes	Minor		We are driving at a slant (road not even). Huge swaths of patches	1.74	3.91
WILLOW AVENUE	Yarmouth	Major				Minor	Yes	Yes	Yes				0.74	3.00
WILLOW STREET	Yarmouth				Minor				Yes	Minor	Minor		0.83	2.66
WILLOW STREET	Yarmouth			Minor	Minor	Minor	Yes	Yes	Yes				1.34	3.00
WINSLOW GRAY ROAD	Yarmouth	Minor		Minor					Yes	Minor			1.16	3.00
WINSLOW GRAY ROAD	Yarmouth	Minor			Minor		Yes	Yes	Yes	Minor			0.73	3.00
WITCHWOOD ROAD	Yarmouth	Minor			Minor		Yes		Yes				0.57	3.00
WOOD ROAD	Yarmouth	Minor			Major		Yes		Yes				1.29	2.00
WILLOW STREET					Minor					Minor	Minor		0.85	3.00

CAPE COD COMMISSION

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