APPENDIX A

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

December 31, 2007

CARL HILLSTROM
PROVINCETOWN WATER DEPARTMENT
26 ALDEN STREET
PROVINCETOWN, MA 02657

Dear Registrant:

Please find the attached documents:

- A description of the Massachusetts Water Management Act Registration Statement Contents and Conditions for 2008-2017; and
- The Water Management Act Registrant Statement **#42224201** for 2008-2017.

If you have any questions regarding the Registration Statement, please contact Duane LeVangie at (617) 292-5706 or Beth McCann at (617) 292-5901.

Sincerely,

Glenn Haas
Acting Assistant Commissioner
Bureau of Resource Protection

Enclosures
Cc: Duane LeVangie, MassDEP-WMA Program, Boston

Y:\DWP Archive\SERO\PROVINCETOWN-WMA-Registration #42224201 2007-12-31

This information is available in alternate format. Call Donald M. Gomes, ADA Coordinator at 617-556-1057. TDD Service - 1-800-298-2207.

MassDEP on the World Wide Web: http://www.mass.gov/dep
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Massachusetts Water Management Act Registration Statement
Content and Conditions for 2008-2017

The enclosed renewed Water Management Act Registration Statement authorizes continued withdrawals from January 1, 2008 through December 31, 2017. This Registration Statement reflects your documented water withdrawals from January 1, 1981 through December 31, 1985, and the source locations from which this water was withdrawn. While the initial Water Management Registration Statements had to be filed with the Massachusetts Department of Environmental Protection (the Department) by January 1, 1988, existing registrants have the opportunity to renew the Statements every ten years thereafter. Earlier this year you requested that your Registration be renewed, and the attached Registration Statement confirms your authorized registered withdrawal volumes and sources.

As noted in the Department's August 2007 Registration Renewal Request, the Department has evaluated including water conservation measures in registrations that are consistent with the State Water Conservation Standards approved by the Water Resources Commission (WRC) in July 2006. To better achieve a balance between competing water withdrawals and uses mandated by the Act, to protect the natural environment, and to provide continued and sustainable economic growth in the Commonwealth, the Department is including water conservation measures in Public Water Supply (PWS) Registration Statements pursuant to M.G.L. c. 21G, §§(5) and (6), that include:

- a requirement that PWSs meet the WRC's performance standards of 65 residential gallons per capita day water use (RGPCD) and 10% unaccounted for water loss (UAW) by December 31, 2017
  - because of the difficulty accurately calculating the RGPCD value in seasonal communities, PWSs on the Cape and Islands are not required to meet the 65 RGPCD standard;
- a requirement that those not meeting specific performance milestones must develop and implement a compliance plan in advance of December 31, 2017;
- a prohibition on the use of decreasing block rates in establishing service charges (M.G.L. c.40, § 39L);
- a requirement that PWSs begin implementing by May 1, 2009 a Seasonal Demand Management Plan that, at a minimum, restricts nonessential outdoor water use between May 1st and September 30th when the Massachusetts Drought Management Task Force declares a drought level of "Advisory", "Watch", "Warning" or "Emergency" for the region in which the PWSs withdrawals are located. Restrictions on outdoor water use shall remain in force until the drought level is declared to be "Normal" by the Drought Management Task Force.

UAW Performance Standard

The Registration Statements include steps that PWSs will need to take if they are having difficulty meeting the performance standard. The Registration Statement outlines a timetable for PWSs to develop and implement their own plan for bringing their system into compliance with the performance standard. Alternatively, a PWS can implement the MassDEP Model Conservation Plan for UAW at any time and then be considered to have met the functional equivalent of the performance standard.

The MassDEP Model Conservation Plan has not been completed at this time. The Department is committed to working with interested stakeholders, particularly the Massachusetts Water Works Association, to develop model conservation plan that provides a menu of best management practices for registrants to refer to and to use as they develop their own compliance plan. We anticipate developing a water management toolbox over the next several months that will meet the needs of suppliers and meet the Department's commitment to protect water resources while we balance human and environmental needs.

The Department plans to engage interested parties in discussions on rate structures, the experiences of water suppliers and other utilities incorporating rates into their conservation programs, and the impact of conservation on revenues. The Department anticipates incorporating the findings of our discussions into the water management toolbox. We look forward to your input on these matters.

Seasonal Demand Management

PWSs will be required to develop a Seasonal Demand Management Plan to reduce nonessential outdoor water use from May 1st to September 30th. The Department will be working in the coming months with the Massachusetts Water Works Association and the Water Management Advisory Committee to develop an outline of the minimum elements that will be required in a Seasonal Demand Management Plan. The Department will forward the Seasonal Demand Management Plan outline to registrants by May 1, 2008. Registrants will be required to forward a draft of their proposed Seasonal Demand Management Plan to the Department for its review and approval by August 1, 2008. The Department anticipates that many PWSs will already have developed and implemented seasonal water use restrictions that meet the minimum requirements in this Registration Statement. Suppliers can always implement stricter restrictions than those required by the Department. For more information on the Massachusetts Drought Task Force and drought declarations, please see http://www.mass.gov/dcr/waterSupply/rainfall/drought.htm

In addition, the Department has included more information that was submitted by Registrants in 1988 and updated the documents to include changes that have occurred since 1988, including:

- A detailed list of ground and surface water sources, including the PWS source ID, for all registered withdrawal points. The Department has added this information to reflect the withdrawal points registered in 1988; and
- Replacement wells and/or satellite wells, if applicable.

Finally, the Department has included the following administrative language:

- Enforcement language that reserves the Department's rights in any case where there is an ongoing proceeding, or may be a future proceeding; and
- Appeal language that explains how the registrant can seek review of the Registration Conditions in the Renewal Registration Statement in an adjudicatory proceeding.

Many registered PWSs also hold Water Management Act permits. If the Registrant holds a Water Management Act permit, then the conditions in the permit, including all applicable deadlines, shall supersede the corresponding conditions in this Registration Statement.

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RENEWAL REGISTRATION STATEMENT FOR VERIFIED WATER WITHDRAWAL

The Massachusetts Department of Environmental Protection ("the Department") hereby accepts the Registration Renewal Request filed by the following Registrant pursuant to 310 CMR 36.10 for the water withdrawal described below. The Registrant is hereby authorized to withdraw up to the registered volume of water from the registered withdrawal point(s) until the expiration date, as set forth below, in compliance with M.G.L. c. 21G and 310 CMR 36.00, subject to the Registration Conditions set forth below.

GENERAL INFORMATION

Registration Number: **42224201** River Basin: CAPE COD

Registrant: PROVINCETOWN WATER DEPARTMENT
26 ALDEN ST
PROVINCETOWN, MA 02657

Number of registered withdrawal points: 3
Groundwater: 3 Surface water: 0

SourceID	Type	Source Name
4242000-02G	GW	KNOWLES CROSSING WELLFIELD
4242000-03G	GW	PAUL D. DALEY WELLFIELD
4242000-05G	GW	NORTH TRURO AIR FORCE WELL#5

Use: Public Water Supply

Average Volume per Day (MGD): 0.85 Total Annual Volume (MGY): 311.62

Days of Operation: 365

Effective Date: January 1, 2008 Expiration Date: December 31, 2017

REGISTRATION CONDITIONS

The Registrant shall comply at all times with M.G.L. c. 21G, 310 CMR 36.00 and all other applicable state and federal statutes and regulations.[1] In addition, the Registrant shall comply with the following conditions, provided, however, that if the Registrant holds a currently valid Water Management Act permit, then the conditions in the permit, including all applicable deadlines, shall supersede the corresponding conditions in this Renewal Registration Statement.

Metering:
The Registrant shall install and maintain source meter(s) for each withdrawal point(s).
The Registrant shall calibrate all source meter(s) annually.

Records:
The Registrant shall maintain withdrawal records in sufficient detail to timely provide the information necessary to accurately complete each Annual Statistical Report (ASR) it files with the Department.

Performance Standard for Unaccounted-for Water:
The Registrant shall comply with the 10 % Unaccounted-for Water (UAW) performance standard included in the Massachusetts Water Resources Commission's State Water Conservation Standards (July 2006) as soon as feasible but no later than **December 31, 2017**. The Registrant shall annually document its actual UAW in the ASRs it files with the Department, commencing with its ASR for calendar year 2008. The Registrant's ASRs shall document that it is making demonstrable progress towards meeting the UAW performance standard. Commencing with its ASR for calendar year 2017, and for each year thereafter, the Registrant shall document that it is in full compliance with the performance standard for UAW.

If the Registrant's ASR for calendar year 2009 indicates that the Registrant is exceeding 15% UAW, then the Registrant shall develop and implement an annual compliance plan designed to meet the 10% UAW performance standard by December 31, 2017. The Department will make the MassDEP Model Conservation Plan, including a menu of best management practices (BMPs), available to the Registrant for adoption or consideration in developing its own compliance plan. The Registrant shall submit a copy of its first compliance plan to the Department by December 31, 2010, and begin implementation upon submittal.

If the Registrant's ASR for calendar year 2012 indicates that the Registrant is exceeding 10% UAW, then the Registrant shall develop and implement an annual compliance plan designed to meet the 10% UAW performance standard by December 31, 2017, unless it has done so already. The Registrant shall submit a copy of its first compliance plan to the Department by December 31, 2013, and begin implementation upon submittal.

The Department reserves the right to commence enforcement against the Registrant if it is not making demonstrable progress towards meeting the performance standard, or if it has not developed and implemented an annual compliance plan that is reasonably designed to meet the 10% UAW performance standard by December 31, 2017. In exercising its enforcement discretion, the Department will consider the Registrant's past efforts to come into compliance with the requirement.

[1] Regulations may change from time-to-time. The Registrant is responsible for complying with the most current version of the applicable regulations, unless the regulations expressly provide otherwise.

Note: Those registrants with UAW above 10% may choose to adopt the MassDEP Model Conservation Plan at any time before December 31, 2017. Those registrants that have adopted the MassDEP Model Conservation Plan, and have made appropriate arrangements to finance, implement and enforce its provisions, will not be subject to enforcement for exceeding the 10% UAW performance standard provided that they are continuing to make reasonable efforts to implement and enforce their compliance plan. Those registrants that have not adopted the MassDEP Model Conservation Plan prior to December 31, 2017, and/or that are not making reasonable efforts to finance, implement and enforce their compliance plan provisions, may be subject to enforcement for exceeding the 10% UAW performance standard and may be required to adopt the MassDEP Model Conservation Plan, if they have already not done so.

Seasonal Demand Management – May 1 through September 30:
The Registrant shall submit a Seasonal Demand Management Plan by August 1, 2008 for the Department's review and approval. The Plan must begin by May 1, 2009, and must restrict at a minimum, nonessential outdoor water use from May 1 through September 30th when the Massachusetts Drought Management Task Force declares a Drought Advisory, Drought Watch, Drought Warning or Drought Emergency for the region where the Registrant's withdrawals are located. Restrictions on outdoor water use shall remain in place until the drought level is returned to "Normal."

> Nonessential Water Use: As used herein, "nonessential outdoor water use" means uses that are not required: (a) for health or safety reasons; (b) by regulation; (c) for the production of food and fiber; (d) for the maintenance of livestock; or (e) to meet the core functions of a business.
>
> Examples of nonessential outdoor water uses include: the irrigation of lawns or landscaping, except by means of a hand-held hose outside the hours of 9:00 a.m. to 5:00 p.m.; washing vehicles other than by means of a commercial car wash or except as necessary for operator safety; and washing of exterior building surfaces, parking lots, driveways and/or sidewalks, except as necessary to apply paint, preservatives, stucco, pavement, cement, or the like.
>
> Examples of acceptable outdoor water uses outside the hours of 9:00 a.m. to 5:00 p.m. include: irrigation to establish a new lawn during the months of May and September; irrigation for the production of food and fiber or the maintenance of livestock; irrigation by plant nurseries as necessary to maintain stock; irrigation by golf courses as necessary to maintain greens and tees, and limited fairway watering; and irrigation of public parks and recreational fields.

Nothing in this Registration Statement shall be construed to prohibit or prevent the Registrant from implementing any water use restrictions stricter than those contained herein.

Note: 310 CMR 22.15(8) requires that all public water systems establishing mandatory restrictions on water use notify the Department in writing within 14 days of the effective date of such restrictions. Notice must include a description of the regulations, bylaws or ordinances imposing the restriction. Registrants may also be required to document implementation and enforcement of the restrictions in their ASRs.

For the most up-to-date information on the drought status in your region, the Registrant should monitor the Department's website at www.mass.gov/dep and MassDCR's website at http://www.mass.gov/dcr/waterSupply/rainfall/drought.htm.

SERVICE CHARGES
The Registrant shall not charge for water services on a descending unit rate basis (i.e. decreasing block rates). Descending unit rate basis that charge lower unit prices as water use increases during the billing period are prohibited by M.G.L. c. 40, § 39L.

REPORTING
The Registrant shall file an annual statement of withdrawal, as required by 310 CMR 36.11, for each year that this registration is in force, on forms provided and by the deadline specified by the Department. At the request of the Department, the Registrant may be required to report withdrawal volumes monthly or daily in accordance with 310 CMR 36.08.

EFFECT ON ANY PENDING AND FUTURE ACTIONS
The withdrawal registration program is intended to provide a procedure and deadline for persons making existing withdrawals above the threshold quantity to file a registration statement with the Department for their existing withdrawals to enable the Department to document baseline water use to manage the surface and groundwater of the Commonwealth. Except as expressly provided herein, this Renewal Registration Statement shall not be construed or operate as barring, diminishing, adjudicating or in any way affecting any legal or equitable right of the Department with respect to any pending administrative or judicial action, or any such future action, including without limitation any pending enforcement action or permit appeal, or any legal or equitable right of the Department to pursue any claim, action, suit, cause of action, or demand that the Department may have with respect to any matter covered by this Renewal Registration Statement.

REGISTRATION RENEWAL
This Registration Statement expires on January 1, 2018, unless the Registrant files a registration renewal request with the Department prior to that date in accordance with 310 CMR 36.10. Failure to file a registration renewal request by the expiration date shall result in the loss of the Registrant's right to withdraw the water volumes authorized by this Renewal Registration Statement until a permit for such withdrawal has been obtained from the Department.

REGISTRATION TRANSFER
The transfer of Registration Statements is governed by 310 CMR 36.09. Except as provided in 310 CMR 36.09(2), this Renewal Registration Statement may be transferred, in whole or in part, by the Registrant to another person if (1) the Department is notified of the proposed transfer at least 30 days in advance of the proposed transfer date, (2) the notice includes a written agreement between the parties to the transfer, (3) the notice provides the date that the proposed transfer is to take place, and (4) the notice describes the registration to be transferred. A transfer request must be accompanied by the applicable fee established in 310 CMR 4.00. This Renewal Registration Statement shall be surrendered to the Department upon transfer of any withdrawal authorized by this document.

APPEALS

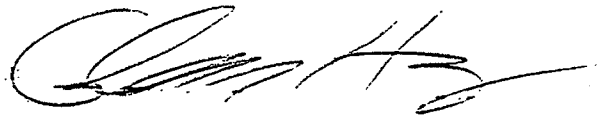
The Registrant may request an adjudicatory hearing on this Renewal Registration Statement by timely filing a Notice of Claim for an Adjudicatory Appeal ("Notice of Claim") in accordance with M.G.L. c. 30A, § 10 and 310 C.M.R. 1.00 within twenty-one (21) days of its receipt of this Renewal Registration Statement. The Notice of Claim shall state specifically, clearly and concisely the facts that are grounds for the appeal, the relief sought, and any additional information required by applicable law or regulation. A copy of this Renewal Registration Statement shall be included with a Notice of Claim. The Notice of Claim and supporting documentation must be sent to:

Case Administrator
Office of Appeals and Dispute Resolution
Department of Environmental Protection
One Winter Street, Second Floor
Boston, MA 02108

In addition, a valid check made payable to the Commonwealth of Massachusetts in the amount of $100 for the appeal filing fee, if required, must be mailed to:

Commonwealth of Massachusetts Lock Box
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

The Notice of Claim may be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver. The filing fee is not required if the appellant is a city, town (or municipal agency), county, district of the Commonwealth of Massachusetts, or a municipal housing authority. The Department may waive the adjudicatory filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, along with the hearing request, an affidavit setting forth the facts believed to support the claim of undue financial hardship.



Glenn Haas, Acting Assistant Commissioner
Bureau of Resource Protection

12/31/07
Date

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

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Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

January 13, 2012

Sharon Lynn, Town Manager
260 Commercial Street
Provincetown, MA 02657

RE: PROVINCETOWN – BRP/WMA
PWS ID #4242000
DRAFT WMA Permit #9P422242.01
Transmittal #X240552

Dear Ms. Lynn:

Please find the attached documents:

- Findings of Fact in Support of the DRAFT WMA Permit Decision; and
- DRAFT Water Management Act Permit #9P422242.01 for the Town of Provincetown.

Comments regarding this draft permit shall be accepted through close of business on January 24, 2012. Please submit all written comments to Department of Environmental Protection, 20 Riverside Drive, Lakeville, MA 02347, Attn: WMA Program, or via e-mail to leslie.oshea@state.ma.us. If you have any questions regarding this information, please contact Leslie O'Shea at (508) 946-2837 or at leslie.oshea@state.ma.us.

Sincerely,

This final document copy is being provided to you electronically by the Department of Environmental Protection. A signed copy of this document is on file at the DEP office listed on the letterhead.

Richard J. Rondeau, Chief
Drinking Water Program
Bureau of Resource Protection

Y:\DWPArchive\SERO\Provincetown-DRAFT Permit #9P42224201-WMA-2012-01-13

ecc: Duane LeVangie, MassDEP
Jennifer Pederson, MWWA
David Guertin, Provincetown Department of Public Works
Carl Hillstrom, Provincetown Water Department
Rex Peterson, Truro Town Manager
Tom Cambareri, Cape Cod Commission
Mark White, Environmental Partners Group

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-866-539-7622 or 1-617-574-6868
MassDEP Website: www.mass.gov/dep

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Communication for Non-English Speaking Parties (310 CMR 1.03(5)(a))

English

This document is important and should be translated immediately.

Spanish

Este documento es importante y se debe traducir inmediatamente.

Portuguese

Este original é importante e deve ser traduzido imediatamente.

Italian

Questo documento è importante e dovrebbe essere tradotto immediatamente.

Greek

Αυτό το έγγραφο είναι σημαντικό και πρέπει να μεταφραστεί αμέσως.

French

Ce document est important et devrait être traduit immédiatement.

Chinese (traditional)

這 個 文件 重要 和 應該 立刻 被翻譯 。
这个文件重要 和应该立刻被翻译。

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Findings of Fact in Support of the DRAFT Permit Decision
Town of Provincetown, Water Management Permit 9P422242.01

The Massachusetts Department of Environmental Protection (MassDEP) has completed its review of the Water Management Act (WMA or the Act) permit application for the Town of Provincetown (Provincetown or the Town) in the Cape Cod Basin pursuant to the Water Management Act, M.G.L. c. 21G. As a result of the review, MassDEP hereby issues this Draft Water Management Act permit #9P422242.01 (permit) in accordance with the Water Management Act.

FINDINGS OF FACT

As required by MGL Chapter 21G, §11 and 310 CMR 36.00, MassDEP makes the following Findings of Fact in support of the Draft WMA Permit Decision and includes herewith its reasons for approving the permit application and for imposing the conditions of approval.

In November 2011, MassDEP received a BRPWM03 application (Transmittal # X240552) which requested a new WMA permit for Provincetown. The Town holds WMA registration # 422242.01 which authorizes a total annual withdrawal volume of 311.62 million gallons (MG), for an average daily withdrawal of 0.85 million gallons per day (MGD), from three registered sources. The draft permit authorizes withdrawal from two new sources, North Union Field Well TPW-1 and North Union Field TPW-2. No additional withdrawal volume above the registered withdrawal volume is authorized by this permit. The North Union Field Wells will provide additional withdrawal capacity, redundancy, and flexibility within the current authorized withdrawal volume. In addition, these new wells will be used to supplement the existing sources to meet peak demand.

Provincetown's reported average daily withdrawal volumes for 2010, 2009, and 2008 were 0.78 MGD, 0.72 MGD, and 0.69 MGD, respectively. Winter demand typically is 0.5 MGD or less, while summer demand is approximately 1.3 MGD. The peak day demand in July or August can reach 1.7 MGD. Provincetown's existing authorized sources, the Knowles Crossing and South Hollow Wellfields, have a combined yield of 1.0 MGD. To meet peak demand, Provincetown has relied on the North Truro Air Force Base (NTAFB) Wells #4 and #5 located on the Cape Cod National Seashore. The Seashore has issued an annual Special Use Permit which allows Provincetown to use these wells during the summer season. A condition of the Special Use Permit is that the Town actively pursue a new water supply source that would eliminate the need to rely on the NTAFB wells. Permitting and use of the North Union Field Wellfield, with an approved maximum daily withdrawal rate of 0.734 MGD, will eliminate the need to withdraw from the NTAFB wells.

The Water Management Act

Permit Factors

Section 7 of the Act requires that MassDEP issue permits that balance a variety of factors including:

- Reasonable protection of existing water uses, land values, investments and enterprises;
- Reasonable conservation consistent with efficient water use;
- Reasonable protection of public drinking water supplies, water quality, wastewater treatment capacity, waste assimilation capacity, groundwater recharge areas, navigation, hydropower resources, water-based recreation, wetland habitat, fish and wildlife, agriculture, flood plains; and
- Reasonable economic development and job creation;

Safe Yield Permit Factor

Section 7 also requires a determination by MassDEP that permitted water withdrawals are within the safe yield of the water source from which they are made. Section 2 of the Act defines "safe yield" as: "the maximum dependable withdrawal that can be made continuously from a water source including ground or surface water during a period of years in which the probable driest period or period of greatest water deficiency is likely to occur; provided however, that such dependability is relative and is a function of storage and drought probability".

For the purposes of the Water Management Program, MassDEP considers a water source to be any one of Massachusetts' 27 major river basins. A map of the 27 major river basins has been developed by the Department of Conservation and Recreation and can be viewed at:

http://www.mass.gov/dcr/waterSupply/intbasin/basins.jpg

On December 14, 2009, MassDEP, with the assistance and concurrence of a group of stakeholders, identified a methodology for determining an Interim Safe Yield while a final Long-Term Safe Yield is developed. The Interim Safe Yield methodology is described at:

http://www.mass.gov/dep/water/resources/watercon.htm#managemt

This permit is issued under the Interim Safe Yield methodology adopted by MassDEP on December 14, 2009. Pursuant to MGL c 21G, section 11 MassDEP cannot issue permits when the combined existing, permitted, and proposed withdrawal volumes exceed the safe yield of the water source. If MassDEP determines that the Long-Term Safe Yield is less than the Interim Safe Yield (ISY) calculated for this basin, the volumes authorized in all Water Management permits in this basin shall be reviewed and the permitted volumes adjusted accordingly. MassDEP is using its best efforts to develop the final Long-Term Safe Yield for the Cape Cod Basin.

No increase in withdrawal is provided under this permit and, therefore, the permit conforms to the ISY methodology.

Under the Permit Extension Act, which was created by Section 173 of Chapter 240 of the Acts of 2010 to promote job growth and long-term economic recovery, expiration dates for WMA permits were extended by two years. Therefore, WMA permits for withdrawals in the Cape Cod Basin expire on November 30, 2012, rather than November 30, 2010.

The permit renewals will enable MassDEP to incorporate the latest scientific information and to consider recommendations (including but not limited to stream flow criteria) from the currently ongoing Executive Office of Energy and Environmental Affairs' Sustainable Water Management Initiative (SWMI), along with United States Geological Survey (USGS) investigative studies, particularly, *Indicators of Streamflow Alteration, Habitat Fragmentation, Impervious Cover, and Water Quality for Massachusetts Stream Basins* (USGS SIR 2009-5272) which can be viewed at *http://pubs.usgs.gov/sir/2009/5272/* ; *Preliminary Assessment of Factors Influencing Riverine Fish Communities in Massachusetts (USGS OFR 2010-1139),* the USGS full assessment of factors influencing fish communities report expected in 2011, and other pertinent studies or site-specific analyses that become available. Access to water volumes authorized beyond Period Four of this permit is contingent upon all permitted withdrawals in the basin being within the Long-Term Safe Yield, and on MassDEP completing a 20 year renewal, 5-year review modification or a permit amendment incorporating the Long-Term Safe Yield determination.

Findings of Fact for Performance Standards

MassDEP has determined that there is documented evidence that an increase in development and impervious area, combined with the out-of-basin export of wastewater and water withdrawals, substantially contribute to low flow in the Commonwealth. Low flows impact the ability of rivers and tributaries to adequately serve all of the competing uses described in the Act. To better achieve the balance of competing water uses mandated by the Act, the MassDEP refers to the Water Conservation Standards adopted by the Massachusetts Water Resources Commission (WRC) in July 2006. The standards can be found at:

http://www.mass.gov/Eoeea/docs/eea/water/water_conservation_standards.pdf

Consistent with Section 3 of the Act and the WRC's Water Conservation Standards, the performance standards of 65 residential gallons per capita day (RGPCD) or less and 10% or less of unaccounted for water (UAW), summer limits on withdrawals, and efforts to offset the impacts of increasing withdrawal volumes are applied to new Water Management permits and to existing permits at the time they are amended, during 5-year permit review, or permit renewal.

MassDEP believes that the standards are reasonable based on studies and data developed throughout the country, the 1996 AWWA Leak Detection and Water Accountability Committee report on water accountability (AWWA Journal; July 1996; pp. 108-111), and the fact that the average values in 2010 for Massachusetts were 61.4 RGPCD, and 14.5 UAW. However, in areas that experience substantial change in seasonal population, as is the case of Cape Cod communities such as Provincetown, calculation of an accurate RGPCD is difficult and has not been standardized to date; MassDEP is currently assessing methods to achieve this. Therefore, the RGPCD standard is not applied in this permit.

Provincetown will be required to meet the 10% unaccounted-for-water (UAW) performance standards for calendar year 2014. MassDEP will consider any permittee that has been unable to meet the 10% UAW performance standard within 5 years of receiving its permit to be achieving functionally equivalent compliance with the performance standards, if they:

- are complying with the Water Conservation requirements included in the permit,
- have implemented the required limits on nonessential outdoor water use, and
- are making demonstrable efforts to finance, implement and enforce a MassDEP-approved compliance plan.

Because circumstances vary, a permittee may present an analysis of the cost effectiveness of implementing certain conservation measures required by MassDEP and offer alternative measures. The analysis must explicitly consider environmental impacts and must produce environmental benefits. MassDEP will allow permittees to:

- Document economic hardship and present an analysis demonstrating that implementation of specific measures will cause or exacerbate significant economic hardship;
- Present reasons why specific measures are not cost effective because the cost would exceed the costs of alternative methods of achieving the appropriate standard; and
- Propose specific conservation measures that would result in equal or greater system-wide water savings or equal or greater environmental benefits than the conservation measures included in the MassDEP Functional Equivalence Plan(s) (See Appendix A).

MassDEP will review permittees' detailed, written cost effectiveness analysis to determine whether unique circumstances make specific Best Management Practices (BMPs) less cost-effective than alternatives, or not feasible for a particular PWS when developing the compliance plan.

Findings of Fact for the Special Permit Conditions

In issuing permits, MassDEP looks primarily at site-specific impacts and other issues specific to the system, such as impacts to nearby streams, wetlands, or other water users, justification of long-term demand projections and the capacity of permitted withdrawal points. The conditions are intended to ensure the efficient use of water and to mitigate the potential impact of withdrawals.

Special Condition 1, Maximum Authorized Annual Average Withdrawal Volume: this permit does not authorize any increase in withdrawal volume above the 0.85 MGD authorized by WMA registration #422242.01. Provincetown may withdraw a maximum daily volume of 0.734 MGD from the North Union Field sources combined, provided withdrawals from the registered sources are adjusted so as not to exceed the annual average of 0.85 MGD from all sources combined.

Special Condition 2, Maximum Authorized Daily Withdrawal from the Withdrawal Points: reflects the maximum daily withdrawal rate for the North Union Field sources combined, according to MassDEP approved Zone II rate.

Special Condition 3, Zone II Delineation: this requirement has been met; no further Zone II delineation work is required as a condition of this permit.

Special Condition 4, Wellhead Protection: Provincetown's sources are located in the Town of Truro. Provincetown has demonstrated compliance with the Best Effort requirements of 310 CMR 22.21(1) by requesting the Town of Truro to implement protection controls which meet the requirements of 310 CMR 22.21(1). No further Wellhead Protection work is required as a condition of this permit.

Special Condition 5, Performance Standard for Unaccounted for Water (UAW): Provincetown shall meet the 10% UAW performance standard by December 31, 2014.

Provincetown's 2010 UAW was 30.0%. Provincetown is taking significant steps to reduce UAW including annual leak detection, completion of a system water audit and replacement of water lines. Provincetown did submit a UAW compliance plan to MassDEP in December 2010.

Special Condition 6, Seasonal Limits on Nonessential Outdoor Water Use: Under the renewed permits, Public Water Suppliers will be required to limit non-essential outdoor water use. MassDEP and the Barnstable County Water Utilities are currently discussing what water conditions would trigger water restrictions on the Cape. Additional information will be provided following the conclusion of these discussions. Therefore, until the North Union Field Wellfield is operational, Provincetown shall continue its mandatory seasonal limits on outdoor water use.

Special Condition 7, Water Conservation Requirements: incorporates the Water Conservation Standards for the Commonwealth of Massachusetts reviewed and approved by the Water Resources Commission in July 2006.

Special Condition 8, Requirement to Report Raw and Finished Water Volumes: ensures that the information necessary to evaluate compliance with the conditions included herein is accurately reported.

Special Condition 9, General Permit Conditions: outlines the general conditions applicable to all permittees.

Appendix A - Unaccounted for Water (UAW): outlines the requirements for a UAW compliance plan.

The summary of permit conditions, as part of MassDEP's findings of fact, is not intended to, and should not be construed as, modifying any of the permit conditions. In the event of any ambiguity between the summary and the actual permit conditions, the permit language shall be controlling.

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 627 Main Street, Worcester MA 01608 • 508-792-7650

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

DRAFT WATER WITHDRAWAL PERMIT
MGL C 21G

This permit is issued pursuant to the Massachusetts Water Management Act (the Act) for the sole purpose of authorizing the withdrawal of a volume of water as stated herein and subject to the following special and general conditions. This permit conveys no right in or to any property beyond the right to withdraw the volume of water for which it is issued.

PERMIT NUMBER: 9P422242.01 **RIVER BASIN:** Cape Cod

PERMITTEE: Town of Provincetown

ISSUANCE DATE: Draft

EXPIRATION DATE: November 30, 2012

NUMBER OF WITHDRAWAL POINTS: 1

Groundwater: 1 Surface Water: 0

USE: Public Water Supply

DAYS OF OPERATION: 365

LOCATION:

Table 1: Withdrawal Point Identification

Source Name	PWS Source ID Codes
North Union Field Wellfield	4242000-06G
	4242000-07G

SPECIAL PERMIT CONDITIONS

1. Maximum Authorized Annual Average Withdrawal Volume

This permit authorizes the Town of Provincetown to withdraw water from the Cape Cod Basin at the rate described below in Table 2. Provincetown is authorized to withdraw a total annual withdrawal volume of 311.62 million gallons (MG), for an average daily withdrawal of 0.85 million gallons per day (MGD) under Water Management Act Registration 422242.01. No additional withdrawal volume is authorized by this permit. The volumes are expressed both as an annual average daily withdrawal rate (MGD), and as a total annual withdrawal volume (MGY) for each five-year period of the permit term.

The Department of Environmental Protection (MassDEP) bases these withdrawal volumes on the raw water withdrawn from the authorized withdrawal points, and will use the raw water amount to assess compliance with the registered and permitted withdrawal volumes.

Table 2: Maximum Authorized Annual Withdrawal Volumes

5-Year Periods		Total Raw Water Withdrawal Volumes			
		permit		permit + Registration	
		Daily Average (MGD)	Total Annual (MGY)	Daily Average (MGD)	Total Annual (MGY)
Period One Years 1-5	12/1/1990 to 11/30/1995	NO PERMIT ISSUED		0.85	311.62
Period Two Years 6-10	12/1/1995 to 11/30/2000	NO PERMIT ISSUED		0.85	311.62
Period Three Years 11-15	12/1/2000 to 11/30/2005	NO PERMIT ISSUED		0.85	311.62
Period Four Years 16-22	12/1/2005 to XXX	NO PERMIT ISSUED		0.85	311.62
Period Four* Year 22	XXX to 11/30/2012	0	0	0.85	311.62

This permit does not authorize any increase in withdrawal volume above the 0.85 MGD authorized by WMA registration #422242.01. Provincetown may withdraw a maximum daily volume of 0.734 MGD from the North Union Field sources combined, provided withdrawals from the registered sources are adjusted so as not to exceed the annual average of 0.85 MGD from all sources combined.

*This permit is issued under the Interim Safe Yield methodology adopted by MassDEP on December 14, 2009.

2. Maximum Authorized Daily Withdrawal from The Withdrawal Point

The combined withdrawals from North Union Field Well TPW-1 (4242000-06G) and North Union Field TPW-2 (4242000-07G) shall not to exceed the approved maximum daily volume listed below in Table 3 without specific advance written approval from MassDEP. In no event shall the combined withdrawals from the individual withdrawal points exceed the withdrawal volumes authorized above in Special Condition 1.

Table 3: Maximum Authorized Daily Withdrawals

Source Name	PWS Source ID Codes	Maximum Daily Rate (MGD)
North Union Field Wellfield	4242000-06G & 4242000-07G	0.734

3. Zone II Delineation

The Zone II delineation for the North Union Field Wellfield has been approved; no further Zone II delineation work is required as a condition of this permit.

4. Wellhead Protection

Provincetown has demonstrated compliance with the Best Effort requirements of 310 CMR 22.21(1); no further Wellhead Protection work is required as a condition of this permit.

5. Performance Standard for Unaccounted for Water

Provincetown's performance standard for unaccounted for water (UAW) is 10% of overall water withdrawal. Provincetown shall be in compliance with the performance standard by December 31, 2014. See Appendix A for information on requirements if the performance standard for UAW is not met.

Provincetown shall report its UAW the Annual Statistical Report (ASR) and the ASR shall include the calculation used to derive the UAW, including, without limitation, the source of data used, the methodology for calculating UAW and any assumptions used in making the calculation. Any adjustment in the calculation of UAW made as a result of confidently estimated uses shall be fully documented as required in the ASR.

6. Seasonal Limits on Nonessential Outdoor Water Use

Until the North Union Field Wellfield is operational, Provincetown shall continue its mandatory seasonal limits on nonessential outdoor water use.

7. Water Conservation Requirements

Provincetown shall implement the conservation measures forthwith and shall be in compliance with these measures on or before November 30, 2013. Compliance with the water conservation requirements shall be reported to MassDEP upon request.

Table 4: Minimum Water Conservation Requirements

Metering
1. Provincetown shall continue to calibrate all source and finished water meters at least annually and report date of calibration on the ASR.
2. Provincetown's system is 100% metered, including all water use at municipal facilities (schools, school athletic fields, etc.).
3. All water distribution system users shall have properly sized service lines and meters that meet AWWA calibration and accuracy performance standards. AWWA References: AWWA Manual M22 – Sizing Water Service Lines and Meters AWWA Manual M6 – Water Meters, or as amended
4. Provincetown shall continue to implement its ongoing program to inspect individual service meters to ensure that all service meters accurately measure the volume of water used by its customers. The metering program shall include regular meter maintenance, including testing, calibration, repair, replacement and checks for tampering to identify and correct illegal connections.
5. Provincetown shall continue to ensure placement of sufficient funds in the annual water budget to calibrate, repair, or replace meters as necessary.

Table 4 Continued: Minimum Water Conservation Requirements

System Water Audits and Leak Detection continued
1. Until Provincetown reaches an annual UAW of 10% or less, Provincetown shall, at a minimum, conduct a full leak detection survey every two years.
2. Whenever the percentage of unaccounted for water increases by 5% or more (for example an increase from 3% to 8%) over the percentage reported on the ASR for the prior calendar year, Provincetown shall perform a leak detection survey of those sections of the distribution system that have not been surveyed within the last year. Within 60 days of completing the leak detection survey, Provincetown shall submit to MassDEP a report detailing the leak detection survey, any leaks uncovered as a result of the survey or otherwise, dates of repair and the estimated water savings as a result of the repairs.
3. Field surveys for leaks and repair programs shall be conducted in accordance with the *AWWA Manual 36*.
4. Provincetown shall have repair reports available for inspection by MassDEP. The Towne shall establish a schedule for repairing leaks that is at least as stringent as the following: • Leaks of 15 gallons per minute or more shall be repaired as soon as possible but not later than one month after leak detection.* • Leaks of less than 15 gallons per minute, but greater than 5 gallons per minute, shall be repaired as soon as possible but not later than two months after leak detection.* • Leaks of 5 gallons per minute or less shall be repaired as soon as possible but not later than six months after leak detection, except that hydrant leaks of one gallon or less per minute shall be repaired as soon as possible.* • Leaks shall be repaired in accordance with the priority schedule including leaks up to the property line, curb stop or service meter, as applicable. • Have water use regulations in place that require property owners to expeditiously repair leaks on their property. The following exceptions can be considered: • Repair of leakage detected during winter months can be delayed until weather conditions become favorable for conducting repairs;* and • Leaks in freeway, arterial or collector roadways may be coordinated with other scheduled projects being performed on the roadway.** *Reference: MWRA regulations 360 CMR 12.09 **Mass Highway or local regulations may regulate the timing of tearing up pavement on roads to repair leaks.
5. Provincetown shall continue to ensure placement of sufficient funds in the annual water budget to conduct water audits and leak detection and repair leaks as necessary.
Commercial and Institutional Water Conservation
1. Provincetown does not have any industrial users. The Town shall develop an inventory of its largest commercial and institutional water users. The Town shall develop and implement an outreach program designed to inform and (where appropriate) work with its largest water users on ways to reduce their water use. Such outreach plans can include, but are not limited to: information on water audits, meter sizing, water reuse, low-flow plumbing fixtures, mandatory outdoor water use restrictions, suggestions for contacting trade associations for process specific information on water use reductions, and information on contacting the Executive Office of Environmental Affairs Office of Technical Assistance and Technology (OTA). OTA offers a range of assistance and information to help facilities improve water use efficiency and reduce wastewater discharge. OTA can be contacted at (617) 626-1060 or at www.mass.gov/envir/ota.
2. Upon request by MassDEP, Provincetown shall report on commercial and institutional water conservation including the results of its review of water use records, the inventory of the largest water users, copies of any outreach materials distributed to these users, and to the extent practical, a summary of water use reductions or savings that have resulted. Upon receipt of this report, MassDEP will take whatever action it deems appropriate to promote the interests of the WMA, including without limitation requiring Provincetown to take additional actions to reduce commercial and institutional water use.

Table 4 Continued: Minimum Water Conservation Requirements

Residential and Public Sector Conservation
1. Provincetown shall meet the standards set forth in the Federal Energy Policy Act, 1992 and the Massachusetts Plumbing Code.
2. Water used by contractors using fire hydrants for pipe flushing and construction shall be metered or estimated.
3. Provincetown reports that all municipal buildings have been fitted with water-saving devices .
Lawn and Landscape
1. Provincetown shall continue to implement its water use by-law as necessary.
Public Education and Outreach
1. Provincetown shall develop and implement a Water Conservation Education Plan designed to educate its water customers of ways to conserve water. Without limitation, the plan may include: • Annual work sheets, included in water bills or under separate cover, to enable customers to track water use and conservation efforts and estimate the dollar savings; • Public space advertising/media stories on successes (and failures); • Conservation information centers perhaps run jointly with electric or gas company; • Speakers for community organizations; • Partner with garden clubs, or other private and non-profit organizations, to promote efficient water use; • Provide information on water-wise landscaping, gardening, efficient irrigation and lawn care practice; • Public service announcements; radio/T.V./audio-visual presentations; • Joint advertising with hardware stores to promote conservation devices; • Water conservation workshops for the general public • Use of civic and professional organization resources; • Special events such as Conservation Fairs; • Develop materials that are targeted to schools with media that appeals to children, including materials on water resource projects and field trips; and • Make multilingual materials available as needed. References and additional information available through the USEPA Water Sense Program at http://www.epa.gov/watersense.
2. Upon request of MassDEP, Provincetown shall report on its public education and outreach effort, including a summary of activities developed for specific target audiences, any events or activities sponsored to promote water conservation and copies of written materials.
Pricing
1. Provincetown shall continue to implement a water revenue structure that includes the full cost of operating the water supply system in compliance with state and federal requirements. Revenues shall be evaluated every three to five years and rates adjusted as needed. Full cost pricing factors all costs - operations, maintenance, capital, and indirect costs (environmental impacts, watershed protection) - into the revenue structure. AWWA References for Additional Information on Pricing: AWWA Manual 1 – Principals of Water Rates, Fees and Charges AWWA Manual 29 – Fundamentals of Water Utility Financing
2. Provincetown shall continue to use an increasing block rate structure.

8. Requirement to Report Raw and Finished Water Volumes

Provincetown shall report annually on its ASR the raw water volumes and finished water volumes for the entire water system and the raw water volumes for individual water withdrawal points.

9. General Permit Conditions (applicable to all permittees)

1. **Duty to Comply** The permittee shall comply at all times with the terms and conditions of this permit, the Act and all applicable State and Federal statutes and regulations.

2. **Operation and Maintenance** The permittee shall at all times properly operate and maintain all facilities and equipment installed or used to withdraw water so as not to impair the purposes and interests of the Act.

3. **Entry and Inspections** The permittee or the permittee's agent shall allow personnel or authorized agents or employees of MassDEP to enter and examine any property for the purpose of determining compliance with this permit, the Act or the regulations published pursuant thereto, upon presentation of proper identification and an oral statement of purpose.

4. **Water Emergency** Withdrawal volumes authorized by this permit are subject to restriction in any water emergency declared by MassDEP pursuant to MGL c 21G ss 15-17, MGL c 111 s 160, or any other enabling authority.

5. **Transfer of permits** This permit shall not be transferred in whole or in part unless and until MassDEP approves such transfer in writing, pursuant to a transfer application on forms provided by MassDEP requesting such approval and received by MassDEP at least thirty (30) days before the effective date of the proposed transfer. No transfer application shall be deemed filed unless it is accompanied by the applicable transfer fee established by 310 CMR 36.37.

6. **Duty to Report** The permittee shall complete and submit annually, on a form provided by MassDEP, all of the information required by said form including, without limitation, a certified statement of the withdrawal. Such report shall be received by MassDEP by the date specified on the form each year. Such report must be mailed or hand delivered to:

   Department of Environmental Protection
   Drinking Water Program
   Water Management Program
   One Winter Street, 5th Floor
   Boston, MA 02108

7. **Duty to Maintain Records** The permittee shall maintain withdrawal records and other information in sufficient detail to demonstrate compliance with this permit.

8. **Metering** The withdrawal point(s) included within this permit are metered and shall be calibrated annually. Meters shall be maintained and replaced as necessary to ensure the accuracy of the withdrawal records.

APPEAL RIGHTS AND TIME LIMITS
This permit is a decision of MassDEP. Any person aggrieved by this decision may request an adjudicatory hearing under the provisions of MGL c 30A. Any such request must be made in writing, by certified mail and received by MassDEP within twenty-one (21) days of the date of receipt of this permit. No request for an appeal of this permit shall be validly filed unless a copy of the request is sent by certified mail or delivered by hand to the local water resources management official in the city or town in which the withdrawal point(s) is located; and for any person appealing this decision, who is not the applicant, unless such person notifies the permit applicant of the appeal in writing by certified mail or by hand within five (5) days of mailing the appeal to MassDEP.

CONTENTS OF HEARING REQUEST
310 CMR 1.01(6)(b) requires the request to include a clear and concise statement of the facts which are the grounds for the request and the relief sought. In addition, the request must include a statement of the reasons why the decision of MassDEP is not consistent with applicable rules and regulations, and for any person appealing this decision who is not the applicant, a clear and concise statement of how that person is aggrieved by the issuance of this permit.

FILING FEE AND ADDRESS
The hearing request, together with a valid check, payable to the Commonwealth of Massachusetts in the amount of $100 must be mailed to:

Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

The request shall be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver as described below.

EXEMPTIONS
The filing fee is not required if the appellant is a city or town (or municipal agency), county, district of the Commonwealth of Massachusetts, or a municipal housing authority.

WAIVER
MassDEP may waive the adjudicatory hearing filing fee for any person who demonstrates to the satisfaction of MassDEP that the fee will create an undue financial hardship. A person, seeking a waiver must file, together with the hearing request, an affidavit setting forth the facts, which support the claim of undue hardship.

Appendix A – Unaccounted for Water (UAW)

I. Compliance Plan Requirement

If the permittee fails to document compliance with the UAW performance standard in its Annual Statistical Report (ASR), then the permittee must file with that ASR an Unaccounted for Water Compliance Plan (UAW Plan) which shall:

a. meet the requirements set forth below in Section II;
b. include measures to be implemented to meet the performance standard; and
c. include the schedule for implementing such measures.

The filing of a UAW Plan shall not constitute a return to compliance, nor shall if affect MassDEP's authority to take action in response to the permittee's failure to meet the performance standard.

If a UAW Plan is required, the permittee must:

a. submit information and supporting documentation sufficient to demonstrate compliance with its UAW Plan annually at the time it files its ASR; and
b. continue to implement the UAW Plan until it complies with the performance standard and such compliance is documented in the permittee's ASR for the calendar year in which the standard is met.

II. Contents of a UAW Compliance Plan

A permittee that does not meet the 10% UAW performance standard within 2 years, has the choice to file a UAW Plan containing measures that the permittee believes will be sufficient to bring the system into compliance with the performance standard (Individual UAW Plan) or may adopt the MassDEP UAW Functional Equivalence Plan that includes mandated Best Management Practices (BMPs).

A permittee that has been unable to meet the 10% UAW performance standard within 5 years must implement the MassDEP UAW Functional Equivalence Plan to be considered functionally equivalent with the performance standard.

At a minimum, all UAW plans must include a detailed:

a. description of the actions taken during the prior calendar year to meet the applicable performance standard;
b. analysis of the cause of the failure to meet the performance standard;
c. description and schedule of the actions that will be taken to meet the performance standard; and
d. analysis of how the actions described in c. will address the specific circumstances that resulted in the failure to meet the performance standard.

UAW plans may be amended to revise the actions that will be taken to meet the performance standard.

Individual UAW Compliance Plan
Individual UAW Plan will document a plan to adopt and implement measures tailored to the specific needs of the water supply system that the permittee believes will be sufficient to bring the system into compliance with the performance standard within three years. Individual UAW compliance plans may include any of the actions set forth in the MassDEP UAW Functional Equivalence Plan compliance plan below.

MassDEP UAW Functional Equivalence Plan

In order to be considered functionally equivalent with the UAW performance standard, the permittee must adopt and implement the MassDEP UAW Functional Equivalence Plan that, at a minimum, requires all the following measures:

a. within one year of filing the MassDEP UAW Functional Equivalence Plan, complete a water audit and leak detection survey of the entire system and submit completed audit and survey to MassDEP; within one year of completing the audit and leak detection survey, conduct sufficient repairs to reduce by 75% (by water volume) all leaks detected in the survey;
within one year of completing such repairs, conduct additional repairs of leaks detected in the survey as may be necessary to reduce permittee's UAW to 10% or the minimum level possible;
b. if UAW remains above 10%, repeat the steps outlined in paragraph a.;
c. implementation of a program that ensures the inspection and evaluation of all water meters and, as appropriate, the repair, replacement and calibration of water meters in accordance with the following schedule:
Large Meters (2" or greater) - within one year of filing the MassDEP UAW Functional Equivalence Plan
Medium Meters (1" or greater and less than 2") - within two years of filing the MassDEP UAW Functional Equivalence Plan
Small Meters (less than 1") - within three years of filing the MassDEP UAW Functional Equivalence Plan;
d. implementation of monthly or quarterly billing within three years of fling the MassDEP UAW Functional Equivalence Plan; and
e. within one year of filing the MassDEP UAW Functional Equivalence Plan, implementation of a water pricing structure that achieves sufficient revenues to pay the full cost of operating the system including, without limitation, the costs of repairs under paragraph a., the costs of meter repairs, replacements and calibrations under paragraph c., the costs of employees and equipment, and ongoing maintenance and capital costs.

Hardship

A permittee may present an analysis of the cost effectiveness of implementing certain conservation measures included in the MassDEP UAW Functional Equivalence Plan and offer alternative measures. Any analysis must explicitly consider environmental impacts and must produce equal or greater environmental benefits. Suppliers will be able to present:

a. Reasons why specific measures are not cost effective because the cost would exceed the costs of alternative methods of achieving the appropriate standard;
b. Alternative specific conservation measures that would result in equal or greater system-wide water savings or equal or greater environmental benefits than the conservation measures included in the MassDEP UAW Functional Equivalence Plan; and
c. When applicable, an analysis demonstrating that implementation of specific measures will cause or exacerbate significant economic hardship

APPENDIX B

Chapter 147: Stormwater Management
[Adopted May 9, 2008][Effective August 5, 2008]

§ 147.1. Purpose.

A. Increased and contaminated stormwater runoff associated with developed land uses and the impacts of soil erosion and sedimentation are known to cause:
- Impairment of water quality and flow in lakes, ponds, streams, rivers, wetlands, and groundwater;
- Contamination of drinking water supplies;
- Erosion of stream channels;
- Alteration and destruction of aquatic and wildlife habitat;
- Flooding; and
- Overloading or clogging of municipal storm drain systems.

B. The objectives of this bylaw are to require practices to control the flow of stormwater from new and redeveloped sites into the Westford storm sewer system in order to:
- Prevent pollutants from entering and discharging from the Westford municipal separate storm sewer system ;
- Control the volume and rate of stormwater runoff resulting from land disturbance activities;
- Ensure that soil erosion and sedimentation control measures and stormwater runoff control practices are incorporated into the site planning and design process;
- Prevent flooding;
- Promote infiltration and recharge of groundwater;
- Encourage the use of low impact development techniques such as reducing impervious cover and the preservation of greenspace and other natural areas, to the maximum extent practicable and allowable under Westford's Subdivision Rules and Regulations;
- Protect groundwater and surface water from degradation;
- Control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at a construction site;
- Ensure adequate operation and maintenance of structural stormwater best management practices so they work as designed, both long-term and during construction;
- Comply with state and federal statutes and regulations relating to stormwater discharges; and
- Establish Westford's legal authority to ensure compliance with the provisions of this bylaw through inspection, monitoring, and enforcement.

§ 147.2. Definitions.

The following definitions shall apply in the interpretation and enforcement of this bylaw:

Alter shall mean any activity, which will measurably change the ability of a ground surface area to absorb water or will change existing surface drainage. Alter may be similarly represented as "alteration of drainage characteristics," and "conducting land disturbance activities."

Approval Not Required (ANR) shall mean a plan of land that does not require approval under the Subdivision Control Law of Massachusetts (Massachusetts General Laws, chapter 41, sections 81K through 81GG).

Common Plan of development shall mean any announcement or piece of documentation (including a contract, public notice or hearing, advertisement, drawing, plan, or permit application, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor marking, etc.) indicating imminent or future plans to disturb earth regardless of how many phases or how long it will take to complete. Under this bylaw, a facility is ***no longer considered a common plan*** if the following criteria are met:

a) The original plan, including modifications, was substantially completed with less than one acre of the original common plan remaining (i.e., <1 acre of the common plan was not built out at the time); **and**

b) There was a clearly identifiable period of time (2 years or more) where there was no ongoing construction, including meeting the criteria for final stabilization.

Land Disturbance shall mean any action that causes a change in the position, location, or arrangement of soil, sand, rock, gravel or similar earth material. See also ALTER.

Low Impact Development Techniques shall mean stormwater management practices that are modeled after natural hydrologic features. Low impact development techniques manage rainfall at the source using uniformly distributed decentralized micro-scale controls. Low impact development techniques use small cost-effective landscape features located at the lot level.

Massachusetts Stormwater Management Standards shall mean the requirements described in the Massachusetts Stormwater Handbook, as they may be amended from time to time, that address water quality (pollutants) and water quantity (flooding, low base flow and recharge) by establishing standards that require the implementation of a wide variety of stormwater management strategies. These strategies include environmentally sensitive site design and LID techniques to minimize impervious surface and land disturbance, source control and pollution prevention, structural Best Management Practices, construction period erosion and sedimentation control, and the long-term operation and maintenance of stormwater management systems. The Stormwater Management Standards have been incorporated in the Wetlands Protection Act Regulations, 310 CMR 10.05(6)(k) and the Water Quality Certification Regulations, 314 CMR 9.06(6)(a).

Municipal Separate Storm Sewer System (MS4) or **Municipal Storm Drain System or Municipal Storm Sewer System** shall mean a conveyance or system of conveyances designed or used for collecting or conveying stormwater, including any road with a drainage

system, municipal street, catch basins, gutter, curb, inlet, piped storm drain, pumping facility, retention or detention basin, natural or man-made or altered drainage channel, ditch, reservoir, and other drainage structure that together comprise the storm drainage system owned or operated by the Town of Westford.

Nonpoint Source shall mean any source from which pollution is discharged which is not identified as a point source, including, but not limited to urban, agricultural, or silvicultural runoff.

Owner shall mean a person with a legal or equitable interest in a property.

Point Source means any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete, fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

Redevelopment shall mean the development, replacement, rehabilitation, expansion, demolition or phased projects that disturb the ground surface or increase the impervious area on previously developed sites. Standards for Redevelopment only apply to those portions of the parcel that currently contain alteration by human activities. Redevelopment is further defined by Massachusetts Stormwater Management Standard 7.

Stormwater Authority shall mean the Town of Westford Planning Board. The Planning Board is responsible for coordinating the review, approval and permit process as defined in this bylaw. Other boards and/or departments participate in the review process as defined in Section 147.4 of this bylaw.

Stormwater Best Management Practice (BMP) shall mean a structural or nonstructural technique for managing stormwater to prevent or reduce nonpoint source pollutants from entering surface waters or ground waters. A structural stormwater best management practice includes a basin, discharge outlet, swale, rain garden, biofilter or other stormwater treatment practice or measure either alone or in combination including without limitation any discharge pipe, overflow pipe, conduit, weir control structure that: (a) is not naturally occurring; (b) is not designed as a wetland replication area; and (c) has been designed, constructed, and installed for the purpose of conveying, collecting, storing, discharging, recharging or treating stormwater. Nonstructural stormwater best management practices include source control and pollution prevention measures.

Stormwater Management shall mean the use of structural or non-structural practices that are designed to reduce stormwater runoff pollutant loads, discharge volumes, and/or peak flow discharge rates.

Stormwater Management Permit shall mean a permit issued by the Planning Board, after review of an application, plans, calculations, and other supporting documents, which is

designed to protect the environment of the Town from the deleterious affects of uncontrolled and untreated stormwater runoff.

Additional terms that apply to issuance of a Stormwater Management Permit established by this bylaw shall be defined and included as part of the regulations promulgated and, from time to time, amended under section 147.5.B of this bylaw, a copy of which is available at the Planning Board and the office of the Town Clerk. Terms not defined in said regulations or pertinent statutes shall be construed according to their customary and usual meaning.

§ 147.3. Authority.

The Stormwater Management bylaw is hereby established in the Town of Westford, Massachusetts. This bylaw is adopted under authority granted by the Home Rule Amendment of the Massachusetts Constitution, the Home Rule statutes, and pursuant to the rules and regulations of the federal Clean Water Act found at 40 CFR 122.34.

This bylaw shall take effect upon its approval by the Attorney General and publications as provided by Massachusetts General Laws chapter 40, section 32, provided however, that any continuous legally permitted activities in operation on that day may continue.

§ 147.4. Scope and Applicability.

A. This bylaw shall be applicable to the following activities:

1. Any Subdivision as defined in the Massachusetts Subdivision Control Law (Massachusetts General Laws, chapter 41, sections 81K – 81GG) requiring a Definitive Plan;
2. Any activities that result in a land disturbance of one acre or greater within the Town of Westford. Land disturbance shall mean any action that causes vegetation clearing (including tree cutting); or a change in the position, location, or arrangement of soil, sand, rock, gravel or similar earth material; and
3. Any activities that result in a land disturbance less than one acre if the project is part of a larger common plan of development which will disturb one acre or more within the Town of Westford. Plans that do not require approval under the Subdivision Control Law, hereafter referred to as "Approval Not Required or ANR lots", and meet one or more of the applicability criteria described herein are subject to the provisions of this bylaw and shall obtain a Stormwater Management Permit.

B. Exemptions: No person who meets the applicability of this bylaw shall alter land within the Town of Westford without having obtained a **Stormwater Management Permit (SMP)** with the following exceptions:
1. Ground disturbances in the course of customary cemetery use and regular maintenance,
2. Maintenance of landscaping, gardens or lawn areas,

3. Normal maintenance and improvement of land in agricultural use as defined by the Wetlands Protection Act 310 CMR 10.04 and Massachusetts General Laws chapter 40A, section 3.
4. Any work or projects for which the required permit applications have been submitted to the Planning Board, Zoning Board of Appeals, and Conservation Commission before the effective date of this bylaw. For proposed Subdivisions, a Definitive Plan must have been submitted to be considered exempt from this bylaw.
5. Emergency repairs to any stormwater management facility or practice, such that the original design location, size, and technology remain the same, that poses a threat to public health or safety, or as deemed necessary by the Planning Board or its authorized agent.
6. Municipal roadway maintenance when conducted in accordance with an approved Stormwater Pollution Prevention Plan, prepared in accordance with the Stormwater Management regulations promulgated under Section 147.5B of this bylaw, on file with the Planning Board.

C. Coordination with Other Town Permits.

1. No Town Earth Removal Permit, Order of Conditions from the Conservation Commission, Building Permit, Subdivision approval, Special Permit, variance or finding shall constitute compliance with this bylaw. For a project or activity that meets the Scope and Applicability of this bylaw, no work may commence until the site owner or his agent submits a complete Stormwater Management Permit application, the Planning Board issues a Stormwater Management Permit, and the site owner and responsible parties sign and certify that all land clearing, construction, and development will be done pursuant to the approved Plans and Permit.
2. This bylaw is not intended to interfere with, abrogate, or annul any other bylaw, rule or regulation, statute, or other provision of law. The requirements of this bylaw should be considered minimum requirements, and where any provision of this bylaw imposes restrictions different from those imposed by any other bylaw, rule or regulation, or other provision of law, whichever provisions are more restrictive or impose higher protective standards for human health or the environment shall take precedence.
3. In case of conflicting requirements, applicable state statutes and regulations shall be considered the more restrictive or more protective of human health and the environment, and shall take precedence over the Westford Stormwater Management bylaw and the regulations promulgated thereunder. These state statutes and regulations include, but are not limited to, the following documents: the Massachusetts Wetlands Protection Act, the Massachusetts Rivers Act, the Massachusetts Watershed Protection Act, and the Massachusetts Stormwater Management Standards, as amended.

§ 147.5. Administration.

A. Stormwater Authority. The Planning Board is hereby designated as the Stormwater Authority. The Planning Board, or its agent, shall administer, implement and enforce this bylaw. The Planning Board may appoint the Conservation Agent, Town Engineer, or qualified professional to act as its authorized agent for site inspections and to advise the Planning Board.

B. Stormwater Regulations. The Planning Board may adopt, and periodically amend, rules and regulations relating to the terms, conditions, definitions, enforcement, fees (including application, clerical, inspection, and/or consultant fees), procedures and administration of this Stormwater Management bylaw after conducting a public hearing to receive comments on any proposed revisions. Such hearing dates shall be advertised in a newspaper of general local circulation at least fourteen (14) days prior to the hearing date. After public notice and public hearing, the Planning Board may promulgate rules and regulations to effectuate the purposes of this bylaw. Failure of the Planning Board to promulgate such rules and regulations, or a legal declaration of their invalidity by a court, shall not act to suspend or invalidate the effect of this bylaw.

C. Stormwater Management Manual. The Planning Board will utilize the Massachusetts Stormwater Management Handbook, as amended from time to time, for criteria and information including specifications and standards for the execution of the provisions of this bylaw. These include a list of acceptable stormwater treatment practices, with specific design criteria for each. Unless specifically altered in this Stormwater Management bylaw and regulations, stormwater management practices that are designed, constructed, and maintained in accordance with the Massachusetts Stormwater Management Standards and design and sizing criteria in the Stormwater Management Handbook shall be presumed by the Planning Board to be protective of Massachusetts water quality standards.

D. Actions by the Planning Board. The Planning Board may take any of the following actions as a result of an application for a Stormwater Management Permit as more specifically defined as part of the regulations promulgated as part of this bylaw: Approval, Approval with Conditions, Disapproval, or Disapproval without Prejudice.

E. Appeals of Action by the Planning Board. The decisions or orders of the Planning Board shall be final. Further relief shall be to a court of competent jurisdiction.

§ 147.6. Permit Procedures.

Permit procedures and requirements, including permit submittals, right-of-entry, fee schedule, and public hearing process, shall be defined and included as part of the regulations promulgated under section 147.5.B of this bylaw.

§ 147.7. Performance Standards.

Criteria for erosion and sediment control and post-construction stormwater management, including stormwater performance standards, shall be defined and included as part of the regulations promulgated under section 147.5.B of this bylaw.

§ 147.8. Waivers.

A. The Planning Board may in its discretion and after due consideration decide to waive and exempt strict compliance with any requirement of the Town of Westford Stormwater Management bylaw or the regulations promulgated hereunder, where it makes a written finding that such action is:
   1. Allowed by federal, state and local statutes and/or regulations;
   2. In the public interest; and
   3. Consistent with the purpose and intent of the Town of Westford Stormwater Management bylaw and its regulations.

B. Criteria for granting a waiver shall be defined and included as part of the regulations promulgated under section 147.5.B of this bylaw.

§ 147.9. Enforcement.

The Planning Board or its authorized agent shall enforce this bylaw and resulting regulations, orders, violation notices, and enforcement orders, and may pursue all criminal and civil remedies, including injunctive relief and monetary damages and costs of litigation and attorney fees, for such violations and for abatement and mitigation and compliance actions taken by the Planning Board. As an alternative to criminal prosecution or civil action, the Planning Board may elect to utilize the non-criminal disposition procedure set forth in G.L. Ch. 40, §21D and the Town of Westford General Bylaws Chapter 1.2 A in which case the Planning Board shall be the enforcing person. To the extent permitted by state law, or if authorized by the owner or other party in control of the property, the Planning Board's agents, officers, and employees may enter upon privately owned property for the purpose of performing their duties under this bylaw and may make or cause to be made such examinations, surveys or sampling as the Planning Board deems reasonably necessary to determine compliance with a permit issued under this bylaw. Enforcement shall be further defined and included as part of the regulations promulgated under section 147.5.B of this bylaw.

§ 147.10. Severability.

The invalidity of any section, provision, paragraph, sentence, or clause of this bylaw shall not invalidate any section, provision, paragraph, sentence, or clause thereof, nor shall it invalidate any permit or determination that previously has been issued.

WESTFORD PLANNING BOARD RULES & REGULATIONS FOR STORMWATER MANAGEMENT

UNDER THE GENERAL BYLAWS OF THE TOWN OF WESTFORD, CHAPTER 147: STORMWATER MANAGEMENT BYLAW

(Stormwater Management Bylaw adopted at Town Meeting on May 10, 2008 and approved by the Massachusetts Attorney General's Office on August 5, 2008)

1.0 PURPOSE

The purpose of these Regulations is to protect, maintain and enhance the public health, safety, environment and general welfare by establishing minimum requirements and procedures to control the adverse effects of increased construction SITE and POST-DEVELOPMENT stormwater RUNOFF, decreased groundwater RECHARGE, and NONPOINT SOURCE pollution associated with NEW DEVELOPMENT and REDEVELOPMENT, as more specifically addressed in the Stormwater Management Bylaw of the Town of Westford.

2.0 DEFINITIONS

Terms defined herein and in the Bylaw are shown in all CAPITAL LETTERS. The definitions contained herein apply to issuance of a STORMWATER MANAGEMENT PERMIT established by the Town of Westford Stormwater Management Bylaw and implemented through these Regulations. Terms not defined in this section, in the Bylaw, or in the Massachusetts Wetlands Regulations shall be construed according to their customary and usual meaning.

The following terms are defined in the Massachusetts Wetlands Regulations (310 CMR 10.00): Cold-water fishery, Critical areas, Environmentally sensitive SITE design, Flood control, Ground water, Illicit discharge, Land uses with higher potential pollutant loads, LOW IMPACT DEVELOPMENT (LID) TECHNIQUES, Maintenance of a stormwater management system, REDEVELOPMENT, STORMWATER BEST MANAGEMENT PRACTICE, Stormwater management system, Surface waters, and Vernal pool habitat.

The following terms are *in addition to* the terms defined in Chapter 147 of the Westford General Bylaw.

CONVEYANCE: Any natural or human-made structure or device, including pipes, drains, culverts, curb breaks, paved swales or vegetated swales of all types designed or utilized to move or direct stormwater RUNOFF or existing water flow.

DIRECTLY CONNECTED IMPERVIOUS AREA (DCIA): According to the U.S. EPA, the portion of IMPERVIOUS SURFACE with a direct hydraulic connection to the MS4 or a waterbody, via continuous paved surfaces, gutters, pipes and other impervious features. DCIA typically does not include isolated impervious areas with

an indirect hydraulic connection to the MS4 (e.g., swale or detention basin) or that otherwise drain to a pervious area.

GRADING: Changing the level or shape of the ground surface.

EROSION CONTROL: The prevention or reduction of the movement of soil particles or rock fragments due to stormwater RUNOFF.

FLOODING: A local and temporary inundation or a rise in the surface of a body of water, such that it covers land not usually under water.

IMPAIRED WATERS: According to EPA, Impaired Waters are waterbodies that do not meet one or more of its designated uses(s) in the applicable surface water quality standards. These waterbodies are listed in categories 4 and 5 of the most recent Massachusetts Integrated List of Waters. See the Massachusetts Department of Environmental Protection website for the most recent Integrated List of Waters.

IMPERVIOUS SURFACE or IMPERVIOUS COVER (IC) or IMPERVIOUS AREA (IA): Any material or structure on or above the ground that prevents water from infiltrating through the underlying soil. Impervious surface is defined to include, but is not limited to: paved surfaces (parking lots, sidewalks, driveways), roof tops, swimming pools, patios, and paved, gravel and compacted dirt surfaced roads.

INVASIVE SPECIES: Those plant species whose introduction does, or is likely to, cause economic or environmental harm or harm to human health. For the purpose of this bylaw, a plant species is considered “invasive" only when it occurs on the List of Federal Noxious Weeds (available on the U.S. Department of Agriculture Natural Resources Conservation Service website) or on the Massachusetts Prohibited Plant List (available on the Massachusetts Department of Agricultural Resources website).

INFILTRATION: The act of conveying surface water into the ground to permit groundwater RECHARGE and the reduction of stormwater RUNOFF from a project SITE.

MASSACHUSETTS STORMWATER HANDBOOK (HANDBOOK): The Stormwater Handbook, and as amended from time to time, that was produced by MassDEP to be used as guidance for controlling stormwater. Implementation of the STORMWATER MANAGEMENT STANDARDS shall be in accordance with the Stormwater Handbook.

NEW DEVELOPMENT: Any construction or LAND DISTURBANCE on a parcel of land that is currently in a natural vegetated state and does not contain alteration by man-made activities.

OWNER: An individual, firm, association, syndicate, partnership, or corporation having sufficient proprietary interest to seek development of land.

PERSON: Any individual, group of individuals, association, partnership, corporation, company, business organization, trust, estate, the Commonwealth or political subdivision thereof to the extent subject to Town Bylaws, codes, administrative agency, public or quasi-public corporation or body, the Town of Westford, and any other legal entity, its legal representatives, agents, or assigns.

PRE-DEVELOPMENT: The conditions that exist at the time that plans for the land development of a tract of land are submitted to the Planning Board. Where phased development or plan approval occurs (preliminary grading, roads and utilities, etc.), the existing conditions at the time prior to the first plan submission shall establish pre-development conditions.

POST-DEVELOPMENT: The conditions that reasonably may be expected or anticipated to exist after completion of the land development activity on a specific SITE or tract of land. Post-development refers to the phase of a NEW DEVELOPMENT or REDEVELOPMENT project after completion, and does not refer to the construction phase of a project.

RECHARGE: The replenishment of underground water reserves.

RESOURCE AREA: Any area protected under, including without limitation: the Massachusetts Wetlands Protection Act, Massachusetts Rivers Act, or Town of Westford Wetlands Protection Bylaw.

RUNOFF: Rainfall or snowmelt flowing over the ground surface.

SEDIMENTATION: A process of depositing material that has been suspended and transported in water.

SITE: The parcel of land being developed, or a designated planning area in which the land development project is located.

STOP WORK ORDER: An order issued by the Planning Board or its designee which requires that all construction activity on a site be stopped.

SUBDIVISION: Defined in the Subdivision Control Law of Massachusetts (M.G.L. – Chapter 41, Section 81L Definitions).

TOTAL MAXIMUM DAILY LOAD (TMDL): The greatest amount of a pollutant that a water body can accept and still meet water quality standards for protecting public health and maintaining the designated beneficial uses of those waters for drinking, swimming, recreation, and fishing. A TMDL is implemented by specifying how much of that pollutant can come from point, nonpoint, and natural sources. See section 303(d) of the Clean Water Act and 40 CFR §130.2 and §130.7.

WATER QUALITY VOLUME (WQ_v): The storage volume needed to capture a specified average annual stormwater RUNOFF volume. Numerically (WQv) will vary as a function of drainage area or IMPERVIOUS AREA.

3.0 AUTHORITY

A) The Rules and Regulations contained herein have been adopted by the Planning Board in accordance with the Town of Westford Stormwater Management Bylaw.

B) Nothing in these Rules and Regulations is intended to replace or be in derogation of the requirements of the Town of Westford Zoning Bylaw, Subdivision Rules and Regulations, Wetlands Protection Bylaw, Board of Health Bylaws, or any Rules and Regulations adopted there under.

C) These Stormwater Regulations may be periodically amended by the Planning Board in accordance with the procedures outlined in Section 147.5 (B) of the Town of Westford Stormwater Management Bylaw.

4.0 ADMINISTRATION

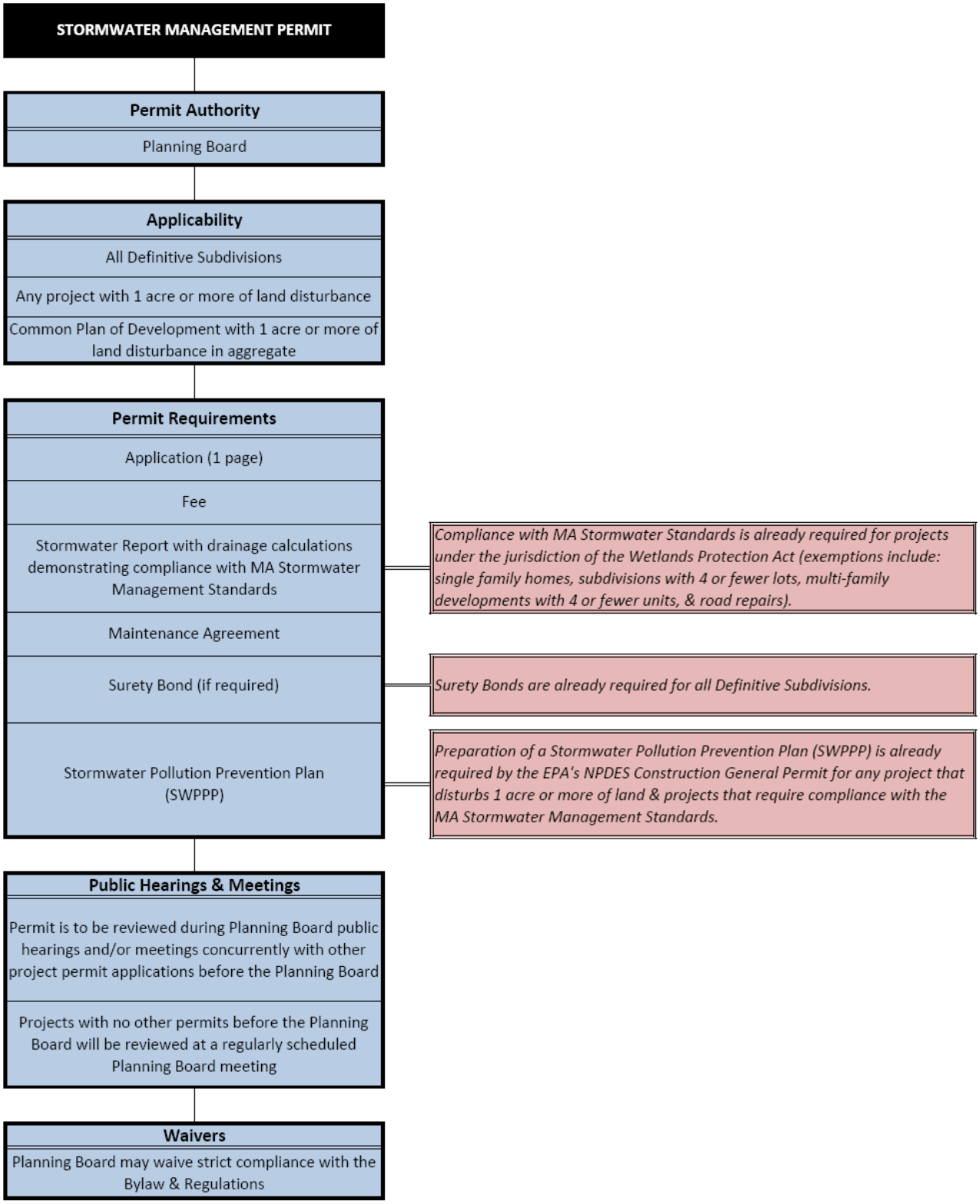
The Planning Board is designated as the STORMWATER AUTHORITY under the Stormwater Management Bylaw. The Planning Board shall administer, implement and enforce these Regulations. The Planning Board may designate the Town Engineer or an outside consultant as its designee for the purposes of reviewing all stormwater submittals and conducting inspections described in Section 11.0.

5.0 APPLICABILITY

A) These Stormwater Management Regulations apply to all activities in accordance with the Scope and Applicability of Section 147.4 of the Stormwater Management Bylaw as described in this section. Projects and/or activities not specifically under the currently regulated jurisdiction of any of the Town of Westford boards, commissions or departments but still within the jurisdiction of the Town of Westford Stormwater Management Bylaw must obtain a STORMWATER MANAGEMENT PERMIT from the Planning Board in accordance with the permit procedures and requirements defined in Section 6.0 of these Regulations.

B) If a portion of a project or activity meets the Scope and Applicability of Section 147.4 of the Stormwater Management Bylaw and it is within the specific jurisdiction of another Town board, then the Planning Board will remain the STORMWATER AUTHORITY, responsible for facilitating stormwater review and approval of the STORMWATER MANAGEMENT PERMIT. The specific application submission requirements, public notices, and fee requirements of the applicable board, commission, and/or department shall remain in effect in addition to the requirements of the Stormwater Management Bylaw. To the extent possible, the Planning Board and other Town boards shall coordinate any necessary expert engineering and other

consultant services. No SITE ALTERING activity may commence without a STORMWATER MANAGEMENT PERMIT from the Planning Board.



6.0 PERMIT PROCEDURES AND REQUIREMENTS

A) Projects requiring a STORMWATER MANAGEMENT PERMIT per Section 147.4 of the Stormwater Management Bylaw shall be required to submit the materials as specified in this Section, and are required to meet the Performance Standards: Stormwater and LID Criteria as specified in Section 7.0 of these Regulations.

B) Filing Application

1. The applicant shall file with the Planning Board, ten (10) copies and one (1) digital copy in Portable Document Format (PDF) of a completed application package for a STORMWATER MANAGEMENT PERMIT. While the applicant can be a representative, the permittee must be the OWNER of the SITE or holder of an easement. The Stormwater Management application package shall include:

    a) A completed Application Form with original signatures of all OWNERS;
    b) Stormwater Report to document compliance with the STORMWATER MANAGEMENT STANDARDS;
    c) Payment of the application fee; and
    d) Draft Maintenance Agreement.

C) Fees

1. General. A non-refundable application fee shall be due and payable to the Town of Westford at the time an application is filed. The application fee will be used for processing of the application, coordination of Town staff, posting hearings, and other expenses connected with the review of the application.

2. Rules

    a) Application Fees are non-refundable.
    b) All fees shall be calculated by the Planning Board in accordance with the fee schedule in Table 1 below.
    c) These fees are in addition to any other local or state fees that may be charged under any other law, regulation, or local Bylaw.
    d) Federal, State, and Municipal projects shall be exempt from Application Fees associated with a STORMWATER MANAGEMENT PERMIT.

Table 1. Fee Schedule for Stormwater Management Permits

Application Type	**Fee**
Subject proposal also has a Conservation Commission review of Stormwater Facilities.	$300
Disturbance area is 1.0 to 4.9 acres	$700
Disturbance area is 5.0 to 9.9 acres	$1,100
Disturbance area is 10.0 acres and greater	$1,550
Construction approval/inspection fees (not a 53G fund)	To be determined for each application if applicable

3. Revision of Fee Schedules and Regulations Governing Fees

    a) The Planning Board may review and revise its Regulations and fee schedules periodically at its discretion.

    b) Amendments to these Regulations shall be preceded by a posted public hearing of the Planning Board not less than 15 days prior to the date upon which the change is to be effective.

    c) A copy of the written decision of revised Regulations and/or fee schedules will be filed with the Town Clerk within 12 business days after final action by the Board is taken.

4. Revolving Fund for consultant Services. The Planning Board may, at its discretion, require deposit of funds into a revolving fund in accordance with Chapter 44 Section 53E ½ to pay for peer review of projects. Generally, such projects are more complicated and require extensive review; however the Board may also consider such peer review upon the recommendation of the Town Engineer or Town Planner. The Planning Board will strive to make such reviews concurrent with other permits being sought by the applicant, and not duplicate efforts of peer reviewers.

D) Public Hearings and Meetings

1. For projects or activities within the currently regulated jurisdiction of the Planning Board (including but not limited to projects requiring Site Plan Review, Subdivision, or a Special Permit), the Planning Board should strive to review the STORMWATER MANAGEMENT PERMIT concurrently with other permits in order to streamline the review process for the applicant.

2. For projects that are not otherwise subject to Planning Board review, a STORMWATER MANAGEMENT PERMIT application shall be reviewed by the Planning Board at a regular meeting of the Planning Board within forty-five (45) days of the receipt of a complete application. The Planning Board may continue its consideration of the application to a further meeting, in order to receive additional information as deemed necessary by the Planning Board. The Planning Board expects to take final action within twenty-one (21) days from the close of the last meeting at which information is presented. However, failure of the Planning Board to take final action within that period shall not result in constructive approval of the application.

E) Actions

The Planning Board's action, rendered in writing, shall be filed with the Town Clerk and shall consist of either:

1. Approval of the STORMWATER MANAGEMENT PERMIT Application based upon determination that the proposed plan will adequately protect the water resources of the community and is in compliance with the requirements set forth in the Bylaw and these Regulations;

2. Approval of the STORMWATER MANAGEMENT PERMIT Application subject to any conditions, modifications or restrictions required by the Planning Board which will ensure that the project will adequately protect the water resources of the community and is in compliance with the requirements set forth in the Bylaw and these Regulations; or

3. Disapproval of the STORMWATER MANAGEMENT PERMIT Application based upon a determination that the proposed plan, as submitted, does not adequately protect water resources, as set forth in the Bylaw and these Regulations, or the application is deemed incomplete.

F) Plan Changes

The permittee must notify the Planning Board or its designee in writing of any drainage change or alteration in the system authorized in a STORMWATER MANAGEMENT PERMIT before any change or alteration is made. If the Planning Board or its designee determines in writing that the change or alteration is significant, based on the STORMWATER MANAGEMENT STANDARDS, Performance Standards in Section 7.0, and accepted construction practices, the Planning Board may require that an amended application be filed.

G) Entry

To the extent permitted by state law, or if authorized by the OWNER or other party in control of the property, Planning Board or its designee, officers, and employees may enter upon privately owned property for the purpose of performing their duties under the Stormwater Management Bylaw and these Regulations and may make or cause to be made such examinations, surveys or sampling as Planning Board deems reasonably necessary to determine compliance with the permit.

H) Project Completion

At completion of the project the permittee shall submit as-built record drawings of all structural best management practices required in the STORMWATER MANAGEMENT PERMIT and an updated Maintenance Agreement noting any

changes and new responsible parties. As-built Plans shall be full size plans at a scale approved by the Planning Board that reflect the "as built" conditions, including all final grades, developed by a Registered Professional Engineer. All changes to project design shall be recorded in red ink on plans to define changes made or otherwise noted as changes. All work deleted, corrections in elevations, and changes in materials, shall be shown on the as-built drawings. Deviations from the approved plans, if any, shall be certified in writing by a Registered Professional Engineer. Surveyed latitude and longitude position of all structural STORMWATER BEST MANAGEMENT PRACTICES, including drainage structures, conveyances, outfalls, catch basins, curbing and headwalls compatible with Westford's Geographic Information System (GIS) shall be submitted digitally to the Westford GIS Department. Record drawings shall also include a calculation of IMPERVIOUS AREA (IA) and DIRECTLY CONNECTED IMPERVIOUS AREA (DCIA) in square feet (ft^2) for pre- and post-development conditions. Additional requirements for as-built plans are in the Westford Subdivision Rules and Regulations.

I) Permit Expiration

If work has not been completed within three (3) years, the Applicant shall notify the Planning Board. The Board may re-evaluate the originally approved STORMWATER MANAGEMENT PERMIT to determine whether the plan still satisfies local program requirements. Permits may be extended by the Board at a scheduled meeting. If the Planning Board finds the previously filed Plan to be inadequate, a modified plan shall be submitted and approved prior to the commencement or continuation of land-disturbing activities per the procedure in Section 6.0 of these Regulations.

J) Stormwater Report Contents

1. The application for a STORMWATER MANAGEMENT PERMIT shall include the submittal of a Stormwater Report to the Planning Board prepared in accordance with the MASSACHUSETTS STORMWATER HANDBOOK and the criteria established in these Regulations. This Stormwater Report shall document compliance with each of the STORMWATER MANAGEMENT STANDARDS as provided in the HANDBOOK and shall contain sufficient information for the Planning Board to evaluate the environmental impact, effectiveness, and acceptability of the SITE planning process and the measures proposed by the applicant for reducing adverse impacts from stormwater RUNOFF. The Stormwater Report shall remain on file with the Planning Board.

2. The Stormwater Report shall fully describe the project in drawings, narrative, and calculations. To demonstrate compliance with these Regulations to the Planning Board, the applicant shall include the following in addition to the Stormwater Report requirements in the HANDBOOK:

    a) Locus Map;
    b) Existing SITE Plan;

c) The existing zoning, and land use at the SITE and abutting properties;
d) The proposed land use;
e) The location(s) of existing and proposed easements;
f) The location of existing and proposed utilities;
g) The SITE's existing & proposed topography with contours at 2-foot intervals;
h) The existing SITE hydrology (both groundwater RECHARGE and surface RUNOFF);
i) A description and delineation of existing stormwater conveyances, impoundments, wetlands, drinking water protection areas, swimming beaches, and other protected RESOURCE AREAs, on or adjacent to the SITE or into which stormwater flows;
j) A delineation of 100-year flood plains, if applicable;
k) The existing and proposed vegetation and ground surfaces with RUNOFF coefficients for each; (including all IMPERVIOUS COVER – parking, driveways, etc.)
l) A drainage area map showing pre- and post-construction watershed boundaries (as governed by topography, not the property line), drainage areas, time of concentration (tc) path, and stormwater flow paths, including MUNICIPAL STORM DRAIN SYSTEM flows;
m) A description and drawings of all components of the proposed Stormwater Management system including:
    i. All measures for the detention, retention or INFILTRATION of water;
    ii. Description of non-structural BMPs;
    iii. All measures for the protection of water quality;
    iv. The structural details for all components of the proposed drainage systems and Stormwater Management facilities;
    v. Notes on drawings specifying materials to be used, construction specifications, and expected hydrology with supporting calculations;
    vi. Proposed SITE plan including location of buildings or other structures, impervious surfaces, and drainage facilities, if applicable;
    vii. Any other information requested by the Planning Board.
n) Hydrologic and hydraulic design calculations for the PRE-DEVELOPMENT and POST-DEVELOPMENT conditions for the design storms specified in the MASSACHUSETTS STORMWATER HANDBOOK. Such calculations shall include:
    i. Description of the design storm frequency, intensity and duration;
    ii. Time of concentration;
    iii. Soil Runoff Curve Number (RCN) based on land use and soil hydrologic group;
    iv. Peak RUNOFF rates and total RUNOFF volumes for each watershed area;
    v. Provisions for protecting, during construction, the INFILTRATION capacity of the soil where INFILTRATION is proposed;
    vi. INFILTRATION rates, where applicable;
    vii. Culvert capacities;
    viii. Flow velocities;
    ix. Data on the increase in rate and volume of RUNOFF for the specified

design storms, and

x. Documentation of sources for all computation methods and field test results.

o) Landscaping plan describing the woody and herbaceous vegetative stabilization and management techniques to be used within and adjacent to the stormwater practice.

3. If, in the applicant's opinion, one or more of the Stormwater Management Standards or other requirements cannot be reasonably met, the applicant shall provide a detailed explanation in the Stormwater Report. This narrative shall include reasons that the requirement or Standard could not be met and a description of potential consequences if no mitigating measures are provided.

K) Maintenance Agreement

The Maintenance Agreement shall include the signature(s) of the OWNER(s) and the party or parties responsible for operation and maintenance as specified in the STORMWATER MANAGEMENT PERMIT and party or parties responsible for perpetual inspections as specified under Section 12.B of these Regulations. The Maintenance Agreement shall include a map showing the "as-built" location of the systems and facilities including all structural and nonstructural stormwater best management practices (BMPs), catch basins, manholes/access lids, pipes, and other stormwater devices. The Maintenance Agreement and plan showing such systems and facilities to be privately maintained, including associated easements shall be recorded, by the OWNER with the Middlesex North Registry of Deeds as conditioned in the STORMWATER MANAGEMENT PERMIT. Evidence of recording shall be presented to the Planning Board or its designee prior to the issuance of the Town's final approval.

7.0 PERFORMANCE STANDARDS: STORMWATER AND LID CRITERIA

A) For compliance with Performance Standards of these Regulations, the applicant must meet all standards of the Massachusetts Department of Environmental Protection's STORMWATER MANAGEMENT STANDARDS and HANDBOOK using current Best Management Practices (BMPs).

B) Additional Design Criteria

1. Landscape Design

SITE plans and landscape plans for all proposed projects must take appropriate steps to minimize water use for irrigation and to allow for natural RECHARGE of groundwater. Native species and habitat-creating species shall be used in all landscape plans to the maximum extent possible as SITE conditions allow. INVASIVE SPECIES shall not be planted in the Town of Westford under any circumstances.

2. Hydrologic Basis for Design

   For stormwater facility sizing criteria, the basis for hydrologic and hydraulic evaluation of development and REDEVELOPMENT SITEs are as follows:

   a) All hydrological calculations shall be completed and certified by a Massachusetts Registered Professional Engineer licensed to practice in this field. Typically the procedures to follow will include Technical Release Number 55 (TR55) and/or TR20 (as amended); with pipe design flows calculated using the Rational Method.
   b) The rainfall amounts shall be determined using Type III 24-hour storm precipitation as referenced in Technical Release Number 55 and 20. Precipitation amounts shall be defined by the Northeast Regional Climate Center "Atlas of Precipitation Extremes for the Northeastern United States and Southeastern Canada."
   c) The minimum time of concentration for street drainage (Rational Method) shall be five (5) minutes.
   d) Water velocities in pipes and gutters shall be between two (2) and ten (10) feet per second , and not more than four (4) feet per second in vegetated areas.
   e) IMPERVIOUS COVER is measured from the SITE plan and includes any material or structure on or above the ground that prevents water from infiltrating through the underlying soil.
   f) Off-site areas shall be assessed based on their "pre-developed condition" for computing the WATER QUALITY VOLUME (i.e., treatment of only onsite areas is required). However, if an offsite area drains to a proposed BMP, flow from that area must be accounted for in the sizing of a specific practice.
   g) Off-site areas draining to a proposed facility should be modeled as "present condition" for peak-flow attenuation requirements.
   h) The length of sheet flow used in time of concentration calculations is limited to no more than 50 feet.
   i) Detention time is defined as the time between the center of mass of the inflow hydrograph and the center of mass of the outflow hydrograph.
   j) For purposes of choosing a Runoff Curve Number, all pervious lands in the SITE shall be assumed prior to development to be in "good" hydrologic condition regardless of conditions existing at the time of computation.
   k) Flooding and channel erosion impacts to receiving streams due to land development projects shall be determined at each point of discharge from the development project and such determination shall include any RUNOFF from the balance of the watershed which also contributes to that point of discharge.
   l) Proposed residential, commercial, or industrial subdivisions or ANRs shall apply these Stormwater Management criteria to the land development as a whole. Individual lots in new subdivisions shall not be considered separate land development projects, but rather the entire subdivision shall be considered a single land development project. Hydrologic parameters shall

reflect the ultimate land development and shall be used in all engineering calculations.

3. Sensitive Areas – Additional Design Criteria

Stormwater discharges to Critical Areas with sensitive resources as defined in the Massachusetts STORMWATER MANAGEMENT STANDARD No. 6 are subject to additional criteria, and may need to utilize or restrict certain STORMWATER MANAGEMENT practices at the discretion of the Planning Board. The Planning Board has also designated the following Sensitive Areas with specific design criteria. The Planning Board may designate additional Sensitive Areas and specific criteria for these areas by amending these Regulations.

a) Cold Water Fisheries

Stormwater BMPs must mitigate potential temperature impacts of development and land use conversions to Cold Water Fisheries. Elevated temperatures are caused by reduced shading in developed riparian areas, warming of stormwater as it runs over hot roofs and pavement, and heating of water stored in STORMWATER MANAGEMENT ponds. Traditional peak reduction outlet structures and simple spillway outlets do nothing to cool the water before discharge. To address this problem, alternative BMPs, such as buffers, INFILTRATION or under-drained filters can be used, or, if ponds are required, under-drained outlet structures can provide effective cooling. Equally important to maintaining cool stream temperature is preservation and/or restoration of riparian trees and shrubs to provide shade.

Cold Water Fisheries located in the Town of Westford include, but are not limited to, Reed Brook. The Town of Westford Engineering Department has current maps of Westford's watersheds and the locations of Cold Water Fisheries.

b) Discharges to Water Quality Impaired Waters

The Applicant must determine whether stormwater discharges from the proposed SITE will contribute, either directly or indirectly, to an IMPAIRED WATER body. Structural and non-structural stormwater BMPs shall be selected that will control the discharge of the pollutants of concern and ensure that the discharges will not cause an instream exceedances of applicable water quality standards. Pollutants of concern refer to the pollutant identified as causing the impairment. For information on impaired waterbodies and the most recent Integrated List of Impaired Waterbodies, see MassDEP's TMDL website.

8.0 WAIVERS

A) The Planning Board may in its discretion and after due considerations decide to waive and exempt strict compliance with any requirement of the Stormwater Management Bylaw and these Regulations, where it makes a written finding that such action is:

1. Allowed by federal, state and local statutes and/or regulations;
2. In the public interest; and
3. Consistent with the purpose and intent of the Town of Westford Stormwater Management Bylaw and these Regulations.

B) An applicant may submit a written request to be granted such a waiver. Such a request shall be accompanied by an explanation or documentation supporting the waiver request and demonstrating that strict application of the Bylaw does not further the purposes or objectives of the Bylaw.

C) All waivers requested shall be discussed and voted on at the public meeting for the project.

D) If, in the Planning Board's opinion, additional time or information is required for review of a waiver request, the Planning Board may continue a hearing to a date announced at the meeting. In the event the applicant objects to a continuance, or fails to provide requested information, the waiver request shall be denied.

E) Waivers described herein shall not constitute an exemption from any applicable Federal or State permitting requirements.

9.0 ENFORCEMENT

A) Enforcement powers of the Planning Board or its designee are granted in the Stormwater Management Bylaw, Section 147.9.

B) Notices and Orders

1. The Planning Board or an authorized agent of the Planning Board may issue a written notice of violation or enforcement order to enforce the provisions of the Stormwater Management Bylaw and these Regulations, which may include requirements to:

   a) Suspend or revoke approval of any STORMWATER MANAGEMENT PERMIT;
   b) Cease and desist from all or a portion of construction or land disturbing activity until there is compliance with the Bylaw and the STORMWATER MANAGEMENT PERMIT;
   c) Repair, maintain, or replace the stormwater management system or portions thereof in accordance with the Maintenance Agreement;

d) Perform monitoring, analyses, and reporting; and/or
e) Fix adverse impact resulting directly or indirectly from malfunction of the stormwater management system.

2. The suspension or revocation of the STORMWATER MANAGEMENT PERMIT shall not relieve the Applicant of his obligation thereunder except at the discretion of the Board.

C) Any PERSON who purchases, inherits or otherwise acquires real estate upon which work has been done in violation of the provisions of the Stormwater Management Bylaw and these Regulations, or in violation of the approved Plans under this Section shall forthwith comply with any such Order, and restore such real estate to its condition prior to such violation, as the Planning Board deems necessary to remedy such violation.

D) Criminal Violation. Any PERSON who violates any provision of the Town of Westford Stormwater Management Bylaw, these Regulations, or order or permit issued thereunder, may be ordered to correct the violation and/or shall be punished by a fine of not more than $300.00, excluding the cost of damages. Each day or part thereof that such violation occurs or continues shall constitute a separate offense.

E) Non-Criminal Disposition. As an alternative to criminal prosecution or civil action, the Town of Westford may elect to utilize the non-criminal disposition procedure set forth in G.L. Ch. 40, §21D and the Town of Westford General Bylaws Chapter 1.2 A in which case the Planning Board shall be the enforcing PERSON. The provisions of the General Bylaws Chapter 1.2 A as to the monetary penalties shall prevail. The penalty for the 1st violation shall be $100.00. The penalty for the 2nd and subsequent violations shall be $300.00. Each day or part thereof that such violation occurs or continues shall constitute a separate offense.

F) Remedies Not Exclusive. The remedies listed in these Regulations are not exclusive of any other remedies available under any applicable federal, state or local law.

10.0 SURETY

A) Performance Bond. The Planning Board may require the applicant to post a performance bond, issued by a surety or guarantee company properly qualified and licensed to issue such a bond in the state of Massachusetts, before the start of any land disturbing activity. The form of the bond/surety, and the terms of an accompanying performance agreement among the Applicant, the surety, and the Planning Board, shall be approved by Town Counsel, and be in an amount deemed sufficient by the Planning Board to insure that all conditions and requirements imposed by the STORMWATER MANAGEMENT PERMIT will be carried out. In the alternative, the Planning Board may permit the applicant to provide equivalent cash security, to be held by a designated escrow agent approved by the Planning

Board, pursuant to an agreement that authorizes the agent to complete the work in accordance with the STORMWATER MANAGEMENT PERMIT.

B) Phased Project. If the project is phased, the Planning Board may release part of the bond as each phase is completed in compliance with the Plan but the bond may not be fully released until the Planning Board has received the final inspection report as required by Section 11 of these Regulations.

C) Duration of Bond. The Planning Board may hold the Surety through the successful operation of the STORMWATER FACILITY.

11.0 CONSTRUCTION INSPECTIONS

A) Notice of Construction Commencement. The applicant must notify the Planning Board or its designee not less than 14 days prior to the commencement of construction and schedule a pre-construction meeting. In addition, the applicant must notify the Planning Board or its designee 48 hours in advance of construction of critical components of any stormwater management facility.

B) At the discretion of the Planning Board, periodic inspections of the stormwater management system construction shall be conducted by qualified personnel (a Town Officer, a professional engineer, or their designee who has been approved by the Planning Board*).* All inspections shall be documented and written reports prepared that contain the following information:

1. The date and location of the inspection;
2. Names, titles, and qualifications of personnel making the inspection;
3. Whether construction is in compliance with the approved STORMWATER MANAGEMENT PERMIT;
4. Variations from the approved construction specifications; and
5. Any other variations or violations of the conditions of the approved STORMWATER MANAGEMENT PERMIT.

C) EROSION CONTROL Inspection

1. If a project is covered by the EPA NPDES General Permit for Stormwater Discharges from Construction Activities (Construction General Permit), the permittee is required to conduct inspections in accordance with requirements of the Construction General Permit, and must submit reports of all inspections required thereunder to the Planning Board.
2. If a project is <u>not</u> covered by the Construction General Permit, to ensure EROSION CONTROL practices are in accordance with the STORMWATER MANAGEMENT PERMIT, EROSION CONTROL Inspections will be conducted by the OWNER or an authorized representative at least once every seven (7) calendar days from the start of construction until the SITE is permanently stabilized. Inspection frequency may be reduced to at least once a

month if the SITE is determined by the Board or its designee to be temporarily stabilized, such as RUNOFF is unlikely due to winter conditions (e.g., SITE is covered with snow, ice, or the ground is frozen). The permittee is required to notify the Planning Board or its designee of any change in inspection frequency, including termination of inspections due to SITE stabilization.

a. The inspection form will include:
   i. Date of inspection
   ii. Name, title, qualifications, and signature of inspector;
   iii. Weather information for the period since the last inspection (or since commencement of construction activity if the first inspection) including a best estimate of the beginning of each storm event, duration of each storm event, approximate amount of rainfall for each storm event (in inches), and whether any discharges occurred;
   iv. Weather information and a description of any discharges occurring at the time of the inspection
   v. Location(s) of discharges of sediment or other pollutants from the SITE;
   vi. Location(s) of BMPs that need to be maintained;
   vii. Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;
   viii. Location(s) where additional BMPs are needed that did not exist at prior inspection; and
   ix. Corrective action required including any changes to the STORMWATER MANAGEMENT PERMIT necessary and implementation dates.

D) The Planning Board or its designee shall inspect the project SITE at the following stages, at a minimum:

1. Initial SITE Inspection: prior to approval of any plan;

2. Stormwater Management System Inspection: An inspection will be made of the completed stormwater management system, prior to backfilling of any underground drainage or stormwater conveyance structures.

3. Final Inspection

   a) After the stormwater management system has been constructed and before the surety has been released, all applicants are required to submit actual "as built" plans for any stormwater management facilities or practices after final construction is completed and must be certified by a Professional Engineer.

b) The Planning Board or its designee shall inspect the system to confirm its "as-built" features. This inspector shall also evaluate the effectiveness of the system in an actual storm. If the inspector finds the system to be adequate he shall so report to the Planning Board.

E) Inadequacy of System

1. If the system is found to be inadequate by virtue of physical evidence of operational failure, even though it was built in accordance with the STORMWATER MANAGEMENT PERMIT, it shall be corrected by the applicant. If the applicant fails to act, the Planning Board may use the surety bond to complete the work.

2. If the Planning Board or its designee determines that there is a failure to comply with the plan, the OWNER shall be notified in writing of the nature of the violation and the required corrective actions. The Planning Board or its designee shall issue a STOP WORK ORDER until any violations are corrected and all work previously completed has received approval by the Planning Board or its designee.

12.0 CONTINUING INSPECTION AND MAINTENANCE REQUIREMENTS

A) Maintenance Responsibility

The Town of Westford will not accept ownership of stormwater BMPs located outside of street rights of way, and the maintenance of such facilities shall remain the permanent responsibility of the applicant or his successors and/or assigns. The OWNER of the property on which work has been done pursuant to these Regulations for private stormwater management facilities, or any other PERSON or agent in control of such property, shall maintain in good condition and promptly repair and restore all grade surfaces, walls, drains, dams and structures, vegetation, erosion and SEDIMENTATION controls, and other protective devices. Such repairs or restoration and maintenance shall be in accordance with approved plans.

B) Maintenance Inspections

1. Stormwater management facilities and practices included in the STORMWATER MANAGEMENT PERMIT with a Maintenance Agreement in accordance with Section 6.K of these Regulations must undergo ongoing inspections to document maintenance, repair, replacement and disposal needs and ensure compliance with the requirements of the agreement, these Regulations, and the MASSACHUSETTS STORMWATER HANDBOOK.

2. A Maintenance Agreement as specified under Section 6.K of these Regulations between the OWNER and the Planning Board shall be executed for privately-

owned stormwater management systems that specify the PERSON for conducting long term inspections.

3. At a minimum, inspections shall occur once during the first year of operation and at least once every three years thereafter. Some BMPs may require more frequent inspection, as specified in the STORMWATER MANAGEMENT PERMIT.

4. Inspection reports shall be submitted to the Planning Board for all stormwater management systems. Inspection reports for stormwater management systems shall include at a minimum:

    a) The date of inspection;
    b) Name and signature of inspector;
    c) The condition of:
        i. Pretreatment devices
        ii. Vegetation or filter media
        iii. Fences or other safety devices
        iv. Spillways, valves, or other control structures
        v. Embankments, slopes, and safety benches
        vi. Reservoir or treatment areas
        vii. Inlet and outlet channels and structures
        viii. Underground drainage
        ix. Sediment and debris accumulation in storage and fore bay areas (including catch basins)
        x. Any nonstructural practices
        xi. Any other item that could affect the proper function of the stormwater management system
    d) Description of the need for maintenance.

C) Right-of-Entry for Inspection

The terms of the Maintenance Agreement as specified in Section 6.K of these Regulations shall provide for the Planning Board or its designee to enter the property at reasonable times and in a reasonable manner for the purpose of inspection.

D) Records of Inspections and Maintenance, Repair, Replacement and Disposal Activities

OWNERs are responsible for the operation and maintenance of a stormwater management facility shall prepare records of the installation and of all inspections, maintenance, repairs, replacement, and disposal activities, and shall retain the records for at least five years. These records shall be made available to the Planning Board during inspection of the facility and upon request. For disposal, the record must indicate the type of material, quantity of material, and disposal location.

E) Failure to Maintain

1. If the OWNER fails or refuses to meet the requirements of the Maintenance Agreement, the Planning Board, after 30 days written notice (except, that in the event the violation constitutes an immediate danger to public health or public safety, 24 hours notice shall be sufficient), may correct a violation of the design standards or maintenance requirements by performing the necessary work to place the facility or practice in proper working condition. The Planning Board may assess the OWNER(s) of the facility for the cost of repair work, which shall be a lien on the property.

2. After notification is provided to the PERSON responsible for carrying out the maintenance plan of any deficiencies discovered from an inspection of a stormwater management system, the PERSON responsible for carrying out the maintenance plan shall have 30 days or other time frame mutually agreed to between the Planning Board and the PERSON responsible for carrying out the maintenance plan to correct the deficiencies. The Planning Board shall then conduct a subsequent inspection to ensure completion of repairs.

13.0 SEVERABILITY

The invalidity of any section, provision, paragraph, sentence, or clause of these Regulations shall not invalidate any section, provision, paragraph, sentence, or clause thereof, nor shall it invalidate any permit or determination that previously has been issued.

Model Stormwater Management Bylaw

Prepared for the Towns of Duxbury, Marshfield, & Plymouth, MA

Prepared by Horsley Witten Group
December 31, 2004

In collaboration with:

Massachusetts Office of Coastal Zone Management
North and South Rivers Watershed Association
Massachusetts Bays National Estuary Program
Buzzards Bay Project National Estuary Program

Model Stormwater Management Bylaw Components:

- **Model Stormwater Bylaw**
- **Model Stormwater Regulations**
- **Appendix A: Method of Pollutant Load Calculation for Compliance with Water Quality Standards**
- **Appendix B: Example System of Stormwater Management Credits and Incentives**

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MODEL STORMWATER BYLAW
Duxbury, Marshfield, and Plymouth
December 31, 2004

Introduction

It is hereby determined that:

Land development projects and other land use conversions, and their associated changes to land cover, permanently alter the hydrologic response of local watersheds and increase stormwater runoff rates and volumes, which in turn increase flooding, stream channel erosion, and sediment transport and deposition, and decrease groundwater recharge;

Land development projects and other land use conversions also contribute to increased nonpoint source pollution and degradation of receiving waters;

The impacts of post-development stormwater runoff quantity and quality can adversely affect public safety, public and private property, surface water drinking water supplies, groundwater resources, drinking water supplies, recreation, aquatic habitats, fish and other aquatic life, property values and other uses of lands and waters;

These adverse impacts can be controlled and minimized through the regulation of stormwater runoff quantity and quality from new development and redevelopment, by the use of both structural and nonstructural Best Management Practices;

Localities in the Commonwealth of Massachusetts are required to comply with a number of both State and Federal laws, regulations and permits which require a locality to address the impacts of post-development stormwater runoff quality and nonpoint source pollution.

Therefore, the *[Stormwater Authority]* has established this stormwater management bylaw to provide reasonable guidance for the regulation of post-development stormwater runoff for the purpose of protecting local water resources from degradation. This bylaw regulates the post-construction stormwater controls for both new and re-development projects.

It has been determined that it is in the public interest to regulate post-development stormwater runoff discharges in order to control and minimize increases in stormwater runoff rates and volumes, post-construction soil erosion and sedimentation, stream channel erosion, and nonpoint source pollution associated with post-development stormwater runoff.

1.0 PURPOSE

A) The purpose of this Bylaw is to protect, maintain and enhance the public health, safety, environment and general welfare by establishing minimum requirements and procedures to control the adverse effects of increased post-development stormwater runoff and nonpoint source pollution associated with new development and redevelopment. It has been determined that proper management of post-development stormwater runoff will minimize damage to public and private property and infrastructure, safeguard the public health, safety, environment and general welfare of the public, protect water and aquatic resources, and promote groundwater recharge to protect surface and groundwater drinking supplies. This Bylaw seeks to meet that purpose through the following objectives:

1. Establish decision-making processes surrounding land development activities that protect the

integrity of the watershed and preserve the health of water resources;

2. Require that new development, redevelopment and all land conversion activities maintain the after-development runoff characteristics as equal to or less than the pre-development runoff characteristics in order to reduce flooding, stream bank erosion, siltation, nonpoint source pollution, property damage, and to maintain the integrity of stream channels and aquatic habitats;

3. Establish minimum post-development stormwater management standards and design criteria for the regulation and control of stormwater runoff quantity and quality; Establish minimum design criteria for the protection of properties and aquatic resources downstream from land development and land conversion activities from damages due to increases in volume, velocity, frequency, duration, and peak flow rate of storm water runoff; Establish minimum design criteria for measures to minimize nonpoint source pollution from stormwater runoff which would otherwise degrade water quality;

4. Establish design and application criteria for the construction and use of structural stormwater control facilities that can be used to meet the minimum post-development stormwater management standards;

5. Encourage the use of nonstructural stormwater management, stormwater better site design practices or "low-impact development practices", such as reducing impervious cover and the preservation of greenspace and other natural areas, to the maximum extent practicable; Coordinate site design plans, which include greenspace, with the Town's greenspace protection plan;

6. Establish provisions for the long-term responsibility for and maintenance of structural stormwater control facilities and nonstructural stormwater management practices to ensure that they continue to function as designed, are maintained, and pose no threat to public safety;

7. Establish provisions to ensure there is an adequate funding mechanism, including surety, for the proper review, inspection and long-term maintenance of stormwater facilities implemented as part of this Bylaw;

8. Establish administrative procedures for the submission, review, approval or disapproval of stormwater management plans, and for the inspection of approved active projects, and long-term follow up; Establish certain administrative procedures and fees for the submission, review, approval, or disapproval of stormwater plans, and the inspection of approved projects.

B) Nothing in this Bylaw is intended to replace the requirements of either, the Town of *[_____]* Flood Plain Zoning Bylaw, the Town of *[_____]* General Wetlands Protection Bylaw, or any other Bylaw that may be adopted by the Town of *[_____]*. Any activity subject to the provisions of the above-cited Bylaws must comply with the specifications of each.

2.0 DEFINITIONS

The following definitions shall apply in the interpretation and implementation of this Bylaw. Additional definitions may be adopted by separate regulation:

ALTER: Any activity, which will measurably change the ability of a ground surface area to absorb water or will change existing surface drainage patterns. Alter may be similarly represented as "alteration of drainage characteristics," and "conducting land disturbance activities."

BEST MANAGEMENT PRACTICE (BMP): Structural, non-structural and managerial techniques that are recognized to be the most effective and practical means to prevent and/or reduce increases in stormwater volumes and flows, reduce point source and nonpoint source pollution, and promote stormwater quality and protection of the environment. "Structural" BMPs are devices that are engineered and constructed to provide temporary storage and treatment of stormwater runoff. "Nonstructural" BMPs use natural measures to reduce pollution levels, do not require extensive construction efforts, and/or promote pollutant reduction by eliminating the pollutant source.

BETTER SITE DESIGN: Site design approaches and techniques that can reduce a site's impact on the watershed through the use of nonstructural stormwater management practices. Better site design includes conserving and protecting natural areas and greenspace, reducing impervious cover, and using natural features for stormwater management.

GENERAL STORMWATER MANAGEMENT PERMIT (GSMP): A permit issued for an application that meets a set of pre-determined standards outlined in the Regulations to be adopted by the *[Stormwater Authority]* under Section 4 of this Bylaw. By meeting these pre-determined standards, the proposed project will be presumed to meet the requirements and intent of this Bylaw.

HOTSPOT: Land uses or activities with higher potential pollutant loadings, such as auto salvage yards, auto fueling facilities, fleet storage yards, commercial parking lots with high intensity use, road salt storage areas, commercial nurseries and landscaping, outdoor storage and loading areas of hazardous substances, or marinas.

MASSACHUSETTS STORMWATER MANAGEMENT POLICY: The Policy issued by the Department of Environmental Protection, and as amended, that coordinates the requirements prescribed by state regulations promulgated under the authority of the Massachusetts Wetlands Protection Act G.L. c. 131 § 40 and Massachusetts Clean Waters Act G.L. c. 21, §. 23-56. The Policy addresses stormwater impacts through implementation of performance standards to reduce or prevent pollutants from reaching water bodies and control the quantity of runoff from a site.

NEW DEVELOPMENT: Any construction or land disturbance of a parcel of land that is currently in a natural vegetated state and does not contain alteration by man-made activities.

NONPOINT SOURCE POLLUTION: Pollution from many diffuse sources caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into water resource areas.

PERSON: Any individual, group of individuals, association, partnership, corporation, company, business organization, trust, estate, the Commonwealth or political subdivision thereof to the extent subject to Town Bylaws, administrative agency, public or quasi-public corporation or body, the Town of *[_____]*, and any other legal entity, its legal representatives, agents, or assigns.

PRE-DEVELOPMENT: The conditions that exist at the time that plans for the land development of a tract of land are submitted to the *[Stormwater Authority].* Where phased development or plan approval occurs (preliminary grading, roads and utilities, etc.), the existing conditions at the time prior to the first plan submission shall establish pre-development conditions.

POST-DEVELOPMENT: The conditions that reasonably may be expected or anticipated to exist after completion of the land development activity on a specific site or tract of land. Post-

development refers to the phase of a new development or redevelopment project after completion, and does not refer to the construction phase of a project.

RECHARGE: The replenishment of underground water reserves.

REDEVELOPMENT: Any construction, alteration, or improvement exceeding land disturbance of *[5,000]* square feet, where the existing land use is commercial, industrial, institutional, or multi-family residential.

STORMWATER AUTHORITY: the Town *of [_____] [Planning Board, Conservation Commission, Board of Health, or other specifically authorized Dept. or entity the Town decides is appropriate to administer, implement and enforce this bylaw, OR its authorized agent(s)]*. The *[Stormwater Authority]* is responsible for coordinating the review, approval and permit process as defined in this Bylaw. Other Boards and/or departments participate in the review process as defined in the Stormwater Regulations adopted by the *[Boards, Commissions and/or Departments of the Town of _____]*.

STORMWATER CREDITS: A form of incentive for developers to promote conservation of natural and open space areas. Projects that comply with prescribed requirements are allowed reductions in stormwater management requirements when they use techniques to reduce stormwater runoff at the site.

STORMWATER MANAGEMENT PERMIT (SMP): A permit issued by the *[Stormwater Authority]*, after review of an application, plans, calculations, and other supporting documents, which is designed to protect the environment of the Town from the deleterious affects of uncontrolled and untreated stormwater runoff.

STORMWATER UTILITY: A special assessment district set up to generate funding specifically for stormwater management. Users within the district pay a stormwater fee, and the revenue thus generated directly supports maintenance and upgrade of existing storm drain systems; development of drainage plans, flood control measures, and water-quality programs; administrative costs; and sometimes construction of major capital improvements.

3.0 AUTHORITY

This Bylaw is adopted under authority granted by the Home Rule Amendment of the Massachusetts Constitution, the Home Rule statutes, and pursuant to the regulations of the federal Clean Water Act found at 40 CFR 122.34, and as authorized by the residents of the Town of *[_____]* at Town Meeting, dated *[_____]*.

4.0 ADMINISTRATION

A) The *[Stormwater Authority]*, shall administer, implement and enforce this Bylaw. Any powers granted to or duties imposed upon the *[Stormwater Authority]* may be delegated in writing by the *[Stormwater Authority]* to its employees or agents.

B) Stormwater Regulations. The *[Stormwater Authority]* may adopt, and periodically amend, rules and regulations relating to the terms, conditions, definitions, enforcement, fees (including application, inspection, and/or consultant fees), procedures and administration of this Stormwater Management Bylaw by majority vote of the *[Stormwater Authority]*, after conducting a public hearing to receive comments on any proposed revisions. Such hearing dates shall be advertised in a newspaper of general local circulation, at least seven (7) days prior to the hearing date. After public notice and public hearing, the *[Stormwater Authority]* may promulgate rules and regulations

to effectuate the purposes of this Bylaw. Failure by the *[Stormwater Authority]* to promulgate such rules and regulations or a legal declaration of their invalidity by a court shall not act to suspend or invalidate the effect of this Bylaw.

C) Stormwater Management Manual. The *[Stormwater Authority]* will utilize the policy, criteria and information including specifications and standards of the latest edition of the Massachusetts Stormwater Management Policy, *[or approved local equivalent]*, for execution of the provisions of this Bylaw. This Policy includes a list of acceptable stormwater treatment practices, including the specific design criteria for each stormwater practice. The Policy may be updated and expanded periodically, based on improvements in engineering, science, monitoring, and local maintenance experience. Unless specifically altered in the Stormwater Regulations, stormwater management practices that are designed, constructed, and maintained in accordance with these design and sizing criteria will be presumed to be protective of Massachusetts water quality standards.

D) General Permit. The *[Stormwater Authority]* shall have the authority to develop a General Stormwater Management Permit (GSMP) for specific types of projects, such as, without limitation Construction of a *[Deck, Patio, Retaining Wall, Existing Driveway Expansion, Shed, Swimming Pool, Tennis or Basketball Court]*. Any such General Stormwater Management Permit Requirements shall be defined and included as part of any Stormwater Regulations promulgated as a result of this Bylaw.

E) Actions by the *[Stormwater Authority]*. The *[Stormwater Authority]* may take any of the following actions as a result of an application for a Stormwater Management Permit as more specifically defined as part of Stormwater Regulations promulgated as a result of this Bylaw: Approval, Approval with Conditions, Disapproval, or Disapproval without Prejudice.

F) Appeals of Action by the *[Stormwater Authority]*. A decision of the *[Stormwater Authority]* shall be final. Further relief of a decision by the *[Stormwater Authority]* made under this Bylaw shall be reviewable in the Superior Court in and action filed within *[60 days]* thereof, in accordance with M.G.L. Ch 249 § 4.

G) Stormwater Credit System. The *[Stormwater Authority]* may adopt, through the Regulations authorized by this Stormwater Management Bylaw, a Stormwater Credit System. This credit system will allow applicants the option, if approved by the *[Stormwater Authority],* to take credit for the use of stormwater better site design practices to reduce some of the requirements specified in the criteria section of the Regulations. Failure by the *[Stormwater Authority]* to promulgate such a credit system through its Regulations or a legal declaration of its invalidity by a court shall not act to suspend or invalidate the effect of this Bylaw.

H) Stormwater Utility. The *[Stormwater Authority]* may adopt, through the Regulations authorized by this Stormwater Management Bylaw, a Stormwater Utility pursuant to M.G.L. Chapter 83 Section 16 and Chapter 40 Section 1A. The *[Stormwater Authority]* shall administer, implement and enforce this Utility. Failure by the *[Stormwater Authority]* to promulgate such a Stormwater Utility through its Regulations or a legal declaration of its invalidity by a court shall not act to suspend or invalidate the effect of this Bylaw.

5.0 APPLICABILITY

A) This bylaw shall be applicable to all new development and redevelopment, including, but not limited to, site plan applications, subdivision applications, grading applications, land use conversion applications, any activity that will result in an increased amount of stormwater runoff or pollutants flowing from the a parcel of land, or any activity that will alter the drainage characteristics of a parcel of land, unless exempt pursuant to Section 5.B) of this Bylaw. All new development and redevelopment under the jurisdiction of this Bylaw as prescribed in this Bylaw

shall be required to obtain a Stormwater Management Permit.

B) Exemptions

No person shall alter land within the Town of *[_____]* without having obtained a Stormwater Management Permit (SMP) for the property with the following exceptions:

1. Any activity that will disturb an area less than *[5000]* square feet or less than *[25%]* of a contiguous property, whichever is less. This exception may not be applied for contiguous properties held in common ownership at the time of adoption of this Bylaw that may have been previously subdivided and/or are attributed to multiple separate owners;

   Another option could be based on impervious area such as "Any activity that will increase a contiguous impervious area of less than [5000] square feet.

2. Normal maintenance and improvement of land in agricultural use as defined by the Wetlands Protection Act regulation 310 CMR 10.04 and MGL Chapter 40A Section 3.

3. Maintenance of existing landscaping, gardens or lawn areas associated with a single family dwelling;

4. Repair or replacement of an existing roof of a single-family dwelling;

5. The construction of any fence that will not alter existing terrain or drainage patterns;

6. Construction of utilities (gas, water, electric, telephone, etc.) other than drainage, which will not alter terrain, ground cover, or drainage patterns;

7. Emergency repairs to any stormwater management facility or practice that poses a threat to public health or safety, or as deemed necessary by the *[Stormwater Authority]*;

8. Any work or projects for which all necessary approvals and permits have been issued before the effective date of this Bylaw;

9. Redevelopment projects are presumed to meet the specified stormwater management requirements described in the Stormwater Regulations of the Town of *[_____]* if the total impervious cover is reduced by *[40%]* from existing conditions. Where site conditions prevent the reduction in impervious cover, stormwater management practices shall be implemented to provide stormwater controls for at least *[40%]* of the site's impervious area. When a combination of impervious area reduction and stormwater management practice implementation is used for redevelopment projects, the combination of impervious area reduction and the area controlled by a stormwater management practice shall equal or exceed *[40%].*

10. An alteration, redevelopment, or conversion of land use to a hotspot such as, without limitation: auto salvage yards, auto fueling facilities, fleet storage yards, commercial parking lots with high intensity use, road salt storage areas, commercial nurseries and landscaping, outdoor storage and loading areas of hazardous substances, or marinas, shall require a Stormwater Management Permit.

6.0 PROCEDURES

Permit Procedures and Requirements shall be defined and included as part of any rules and regulations promulgated as permitted under Section 4 of this Bylaw.

7.0 ENFORCEMENT

The *[Stormwater Authority],* or an authorized agent of the *[Stormwater Authority]* shall enforce this Bylaw, regulations, orders, violation notices, and enforcement orders, and may pursue all civil and criminal remedies for such violations. Enforcement shall be further defined and included as part of any Stormwater regulations promulgated as permitted under Section 4 of this Bylaw.

8.0 SEVERABILITY

The invalidity of any section, provision, paragraph, sentence, or clause of this Bylaw shall not invalidate any section, provision, paragraph, sentence, or clause thereof, nor shall it invalidate any permit or determination that previously has been issued.

MODEL STORMWATER REGULATIONS

Duxbury, Marshfield, and Plymouth
December 31, 2004

1.0 PURPOSE

The purpose of these Stormwater Regulations is to protect, maintain and enhance the public health, safety, environment, and general welfare by establishing minimum requirements and procedures to control the adverse effects of increased post-development stormwater runoff, decreased groundwater recharge, and nonpoint source pollution associated with new development and redevelopment, as more specifically addressed in the Stormwater Management Bylaw of the Town of *[_____]*.

2.0 DEFINITIONS

The definitions contained herein apply to issuance of a Stormwater Management Permit (SMP) established by the Town of *[_____]* Stormwater Management Bylaw and implemented through these Stormwater Regulations. Terms not defined in this section shall be construed according to their customary and usual meaning unless the context indicates a special or technical meaning.

ALTER: Any activity, which will measurably change the ability of a ground surface area to absorb water or will change existing surface drainage patterns. Alter may be similarly represented as "alteration of drainage characteristics," and "conducting land disturbance activities."

APPLICANT: A property owner or agent of a property owner who has filed an application for a stormwater management permit.

BEST MANAGEMENT PRACTICE (BMP): Structural, non-structural and managerial techniques that are recognized to be the most effective and practical means to prevent and/or reduce increases in stormwater volumes and flows, reduce point source and nonpoint source pollution, and promote stormwater quality and protection of the environment. "Structural" BMPs are devices that are engineered and constructed to provide temporary storage and treatment of stormwater runoff. "Nonstructural" BMPs use natural measures to reduce pollution levels, do not require extensive construction efforts, and/or promote pollutant reduction by eliminating the pollutant source.

BETTER SITE DESIGN: Site design approaches and techniques that can reduce a site's impact on the watershed through the use of nonstructural stormwater management practices. Better site design includes conserving and protecting natural areas and greenspace, reducing impervious cover, and using natural features for stormwater management.

CERTIFICATE OF COMPLETION (COC): A document issued by the *[Stormwater Authority]* after all construction activities have been completed which states that all conditions of an issued Stormwater Management Permit (SMP) have been met and that a project has been completed in compliance with the conditions set forth in a SMP.

CONVEYANCE: Any structure or device, including pipes, drains, culverts, curb breaks, paved swales or man-made swales of all types designed or utilized to move or direct stormwater runoff or existing water flow.

DEVELOPER: A person who undertakes or proposes to undertake land disturbance activities.

DEVELOPMENT: The modification of land to accommodate a new use or expansion of use, usually involving construction.

DISTURBANCE OF LAND: Any action that causes a change in the position, location, or arrangement of soil, sand, rock, gravel of similar earth material.

DRAINAGE EASEMENT: A legal right granted by a landowner to a grantee allowing the use of private land for stormwater management purposes.

GENERAL STORMWATER MANAGEMENT PERMIT (GSMP): A permit for projects in the categories and meeting the standards and defined herein and as authorized in the Town of *[_____]* Stormwater Management Bylaw. Projects in these categories that meet these generic standards and are properly implemented are assumed to meet the requirements and intent of the Town of *[_____]* Stormwater Management Bylaw.

GRADING: Changing the level or shape of the ground surface.

EROSION CONTROL: The prevention or reduction of the movement of soil particles or rock fragments.

EROSION CONTROL PLAN: A plan that shows the location and construction detail(s) of the erosion and sediment reduction controls to be utilized for a construction site.

FLOOD CONTROL: The prevention or reduction of flooding and flood damage.

FLOODING: A local and temporary inundation or a rise in the surface of a body of water, such that it covers land not usually under water.

GROUNDWATER: All water beneath any land surface including water in the soil and bedrock beneath water bodies.

HOTSPOT: Land uses or activities with higher potential pollutant loadings, such as auto salvage yards, auto fueling facilities, fleet storage yards, commercial parking lots with high intensity use, road salt storage areas, commercial nurseries and landscaping, outdoor storage and loading areas of hazardous substances, or marinas.

IMPERVIOUS SURFACE: Any material or structure on or above the ground that prevents water from infiltrating through the underlying soil. Impervious surface is defined to include, without limitation: paved parking lots, sidewalks, roof tops, driveways, patios, and paved, gravel and compacted dirt surfaced roads.

INFILTRATION: The act of conveying surface water into the ground to permit groundwater recharge and the reduction of stormwater runoff from a project site.

MASSACHUSETTS STORMWATER MANAGEMENT POLICY: The Policy issued by the Department of Environmental Protection, and as amended, that coordinates the requirements prescribed by state regulations promulgated under the authority of the Massachusetts Wetlands Protection Act G.L. c. 131 § 40 and Massachusetts Clean Waters Act G.L. c. 21, §. 23-56. The Policy addresses stormwater impacts through implementation of performance standards to reduce or prevent pollutants from reaching water bodies and control the quantity of runoff from a site.

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) or MUNICIPAL STORM DRAIN SYSTEM: The system of conveyances designed or used for collecting or conveying stormwater, including any road with a drainage system, street, gutter, curb, inlet, piped storm drain, pumping facility, retention or detention basin, natural or man-made or altered drainage channel, reservoir, and other drainage structure that together comprise the storm drainage system owned or operated by the Town of *[_____].*

NEW DEVELOPMENT: Any construction or land disturbance of a parcel of land that is currently in a natural vegetated state and does not contain alteration by man-made activities.

NONPOINT SOURCE POLLUTION: Pollution from many diffuse sources caused by rainfall or snowmelt moving over and through the ground. As the runoff moves, it picks up and carries away natural and human-made pollutants, finally depositing them into water resource areas.

OPERATION AND MAINTENANCE PLAN: A plan that defines the functional, financial and organizational mechanisms for the ongoing operation and maintenance of a stormwater management system to insure that it continues to function as designed.

OWNER: A person with a legal or equitable interest in a property.

PERSON: Any individual, group of individuals, association, partnership, corporation, company, business organization, trust, estate, the Commonwealth or political subdivision thereof to the extent subject to Town Bylaws, administrative agency, public or quasi-public corporation or body, the Town of *[_____]*, and any other legal entity, its legal representatives, agents, or assigns.

PRE-DEVELOPMENT: The conditions that exist at the time that plans for the land development of a tract of land are submitted to the *[Stormwater Authority].* Where phased development or plan approval occurs (preliminary grading, roads and utilities, etc.), the existing conditions at the time prior to the first plan submission shall establish pre-development conditions.

POINT SOURCE: Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, or container from which pollutants are or may be discharged.

POST-DEVELOPMENT: The conditions that reasonably may be expected or anticipated to exist after completion of the land development activity on a specific site or tract of land. Post-development refers to the phase of a new development or redevelopment project after completion, and does not refer to the construction phase of a project.

RECHARGE: The replenishment of underground water reserves.

REDEVELOPMENT: Any construction, alteration, or improvement exceeding land disturbance of *[5,000]* square feet, where the existing land use is commercial, industrial, institutional, or multi-family residential.

RESOURCE AREA: Any area protected under including without limitation: the Massachusetts Wetlands Protection Act, Massachusetts Rivers Act, or Town of *[_____]* Wetlands Protection Bylaw.

RUNOFF: Rainfall, snowmelt, or irrigation water flowing over the ground surface.

SEDIMENTATION: A process of depositing material that has been suspended and transported in water.

SITE: The parcel of land being developed, or a designated planning area in which the land development project is located.

STORMWATER AUTHORITY: Town of *[_____]* [*Planning Board, Conservation Commission, Board of Health or other duly authorized Town entity that has the authority to administer, implement, and enforce these Stormwater Regulations].* The *[Stormwater Authority]* is responsible for coordinating the review, approval and permit process as defined in this Bylaw. Other Boards and/or departments participate in the review process as defined in Section 5 of these Stormwater Regulations.

STORMWATER MANAGEMENT: The use of structural or non-structural practices that are designed to reduce storm water runoff pollutant loads, discharge volumes, and/or peak flow discharge rates.

STORMWATER MANAGEMENT PERMIT (SMP): A permit issued by the *[Stormwater Authority]*, after review of an application, plans, calculations, and other supporting documents, which is designed to protect the environment of the Town from the deleterious affects of uncontrolled and untreated stormwater runoff.

STOP WORK ORDER: An order issued which requires that all construction activity on a site be stopped.

TSS: Total Suspended Solids**.**

WATER QUALITY VOLUME (WQ_v): The storage needed to capture a specified average annual stormwater runoff volume. Numerically (WQv) will vary as a function of drainage area or impervious area.

3.0 AUTHORITY

A) The Rules and Regulations contained herein have been adopted by the [*applicable town boards, commissions and/or departments]* in accordance with the Town of [*_____]* Stormwater Bylaw.

B) Nothing in these Rules and Regulations is intended to replace or be in derogation of the requirements of the Town of [*Town General Wetlands Protection Bylaw*] or the Town of *[_____] Floodplain Zoning Bylaw*] or any Rules and Regulations adopted thereunder.

C) These Stormwater Regulations may be periodically amended by the *[Stormwater Authority]* in accordance with the procedures outlined in Section 4.0 of the Town of *[_____]* Stormwater Bylaw.

4.0 ADMINISTRATION

A) The *[Stormwater Authority]* shall administer, implement and enforce these Regulations. Town Boards, including, but not limited to *[the Conservation Commission, Planning Board, Zoning Board of Appeals, Department of Public Works, Building Department, Board of Health, and insert any other applicable town board or department]* who have formally adopted these regulations, either directly, or by reference, and who issue permits and/or approvals for projects and/or activities under their specific jurisdiction and in accordance with their specific jurisdictional requirements regarding public notice, hearings and actions shall have approval authority under these Stormwater Regulations. Projects or activities approved by *[insert applicable board and/or department]* shall be deemed in compliance with the intent and provisions of these Stormwater

Regulations. Each approving *[insert board, commission or department]* must forward written documentation of said approval and all conditions of approval to the *[Stormwater Authority]* within *[10 business days]* of said approval. Upon receipt of written approval from *[insert board, commission or department]*, the *[Stormwater Authority]* shall issue a Stormwater Management Permit to the applicant within *[10 business days]*.

Note: The above provision is designed to allow existing Town Boards, Commissions and/or Departments who have current jurisdiction over project approval activities to continue their current review procedures, but to add a provision that would authorize these entities to review and approve stormwater management facilities designed in accordance with this Regulation. In order for this authority to be granted, each applicable Town entity must adopt these regulations either directly, or by reference which would allow applicants to receive stormwater approval for projects without making a separate application to the designative Stormwater Authority. If certain Town Boards, Commissions and/or Departments fail to adopt these Regulations they would not have review authority for stormwater management applications.

5.0 APPLICABILITY

A) These Stormwater Regulations apply to all activities in accordance with the applicability section of the Town of *[_____]* Stormwater Management Bylaw and further described in this section. Projects and/or activities not specifically under the currently regulated jurisdiction of any of the Town of *[_____]* boards, commissions or departments but still within the jurisdiction of the Town of *[_____]* Stormwater Management Bylaw must obtain a Stormwater Management Permit from the *[Stormwater Authority]* in accordance with the permit procedures and requirements defined in Section 6 of these Regulations. For projects and/or activities within the currently regulated jurisdiction of any of the Town of *[_____]* boards, commission or departments, the specific application submission requirements, public notices, and fee requirements of the applicable board, commission and/or department shall govern. Not withstanding these requirements, the Stormwater Management Plan Contents, Operation and Maintenance Plan Contents, and Stormwater Review Fee, under Section 6.0 L) and Section 6.0 M) of these Regulations must also be met.

B) If a portion of a project or activity is within the specific jurisdiction of *[insert applicable town board, commission and department]* then the entire project and all related projects required as a result of the activity proposed by the applicant shall be within the specific jurisdiction of that *[insert applicable town board, commission and department]* and subject to the provisions of these Regulations.

6.0 PERMIT PROCEDURES AND REQUIREMENTS

A) Projects requiring a stormwater management permit shall be required to submit the materials as specified in this section, and are required to meet the stormwater management criteria as specified in Section 7. Applicants filing a stormwater permit application under the currently regulated jurisdiction of the Town of *[_____] [insert applicable town board, commission and department]* need only to comply with Subsections 6.0 L, and 6.0 M of these Regulations.

B) Permit Required

1. No land owner or land operator shall receive any of the building, grading or other land development permits required for land disturbance activities without first meeting the requirements of this Bylaw prior to commencing the proposed activity.

2. Should a land-disturbing activity associated with an approved plan in accordance with this section not begin during the [*180-day]* period following permit issuance, the *[Stormwater Authority]* may evaluate the existing stormwater management plan to determine whether the plan still satisfies local program requirements and to verify that all design factors are still valid. If the authority finds the previously filed plan to be inadequate, a modified plan shall be submitted and approved prior to the commencement of land-disturbing activities.

C) Filing Application

1. The applicant shall file with the *[Stormwater Authority]*, *[three (3)]* copies of a completed application package for a Stormwater Management Permit (SMP). Permit issuance is required prior to any site altering activity. While the applicant can be a representative, the permittee must be the owner of the site. The SMP Application package shall include:

   a) A completed *[Application Form]* with original signatures of all owners;
   b) A list of abutters, certified by the Assessors Office; (abutters at their mailing addresses shown on the most recent applicable tax list of the assessors, including owners of land directly opposite on any public or private street or way, and abutters to the abutters within 300 feet of the property line of the applicant, including any in another municipality or across a body of water);
   c) Stormwater Management Plan and project description;
   d) Operation and Maintenance Plan;
   e) Payment of the application and review fees;
   f) Inspection and Maintenance agreement;
   g) Erosion and Sediment Control Plan;
   h) Surety bond.

D) Entry

Filing an application for a permit grants the *[Stormwater Authority]*, or its agent, permission to enter the site to verify the information in the application and to inspect for compliance with the resulting permit.

E) Fees

The *[Stormwater Authority]* shall obtain with each submission an Application Fee established by the *[Stormwater Authority]* to cover expenses connected with the review of the Stormwater Management Permit and a technical review fee sufficient to cover professional review services for the project. The *[Stormwater Authority]* is authorized to retain a Registered Professional Engineer or other professional consultant to advise the *[Stormwater Authority]* on any or all aspects of these plans. Applicants must pay review fees before the review process may begin.

1. Rules

   a) Application fees are payable at the time of application and are non-refundable.

   b) Application fees shall be calculated by the *[Stormwater Authority]* in accordance with the fee schedule below.

   c) These fees are in addition to any other local or state fees that may be charged under any other law, Bylaw, or local ordinance.

d) The fee schedule may be reduced or increased by the *[Stormwater Authority]*. Any such change shall be made at a posted public hearing of the *[Stormwater Authority]* not less than [30] days prior to the date upon which the change is to be effective.

2. Application Fees

a) A non-refundable application fee of the larger of *[$30.00] or $0.0030]* per square foot of the parcel to which the permit will be issued shall be due and payable to the Town of *[_____]* at the time an application is filed.

Or, the [Stormwater Authority] may adopt reasonable administrative fees and technical review fees for site plan review.

b) Application fees for permits issued under General Stormwater Management Permits (GSMP)s under Section 4 of the Town of *[_____]* Stormwater Bylaw shall be waived when such permits are issued for *[projects associated with existing single-family dwellings]* or *[for those projects that qualify].*

3. Engineering and Consultant Reviews and Fees

a) The *[Stormwater Authority]* is authorized to require an applicant to pay a fee for the reasonable costs and expenses for specific expert engineering and other consultant services deemed necessary by the *[Stormwater Authority]* to come to a final decision on the application. This fee is called the "Engineering and Consultant Review Fee."

b) Payment may be required at any point in the deliberations prior to a final decision.

c) Any application filed with the *[Stormwater Authority]* must be accompanied by a completed [*Engineering Consultant Fee Acknowledgement]* form.

d) Consultant fees shall be determined at the time of project review based on a specific scope of work, and shall be calculated at a rate of [*as the Stormwater Authority may determine].*

e) The services for which a fee may be utilized include, but are not limited to, wetland survey and delineation, hydrologic and drainage analysis, wildlife evaluation, stormwater quality analysis, site inspections, as-built plan review, and analysis of legal issues.

f) The *[Stormwater Authority]* is authorized to require an applicant to pay reasonable costs and expenses for certain activities which utilize the services of Town Staff. This includes such activities as inquiries concerning potential projects as well as site inspections not associated with a pending permit application.

g) The *[Stormwater Authority]* may require any applicant to pay an additional fee of [$30.00] per hour for review, inspection and monitoring services for any project filing that requires an excess of two (2) hours of review, inspection, and monitoring time by a Town Staff member.

h) Subject to applicable law, any unused portion of any fees collected shall be returned by the *[Stormwater Authority]* to the applicant within forty-five calendar days of a written request by the applicant, unless the *[Stormwater Authority]* decides in a public meeting that other action is necessary.

i) The Engineering and Consultant Review fees collected under this section shall be deposited in a revolving account. The *[Stormwater Authority]* shall include a full accounting of the revolving account as part of its annual report to the Town.

4. Revision Of Fee Schedules And Regulations Governing Fees

The *[Stormwater Authority]* may review and revise its regulations and fee schedules periodically as it sees fit.

a) Amendments shall be preceded by a public hearing.

b) A copy of the written decision will be filed with the town clerk within *[*10] days after final action is taken.

F) Public Hearings

The *[Stormwater Authority]* need not hold a public hearing for projects or activities outside the currently regulated jurisdiction of *[insert existing town boards, commissions and/or departments]*. For projects or activities within the currently regulated jurisdiction of *[insert existing town boards, commissions and/or departments], the applicable town board, commission and/or department* shall hold a public hearing in accordance with their own regulations and procedures.

G) Actions

The *[Stormwater Authority]*'s action, rendered in writing, shall consist of either:

1. Approval of the Stormwater Management Permit Application based upon determination that the proposed plan meets the Standards in Section 7 and will adequately protect the water resources of the community and is in compliance with the requirements set forth in this Bylaw;

2. Approval of the Stormwater Management Permit Application subject to any conditions, modifications or restrictions required by the *[Stormwater Authority]* which will ensure that the project meets the Standards in Section 7 and adequately protects water resources, set forth in this Bylaw;

3. Disapproval of the Stormwater Management Permit Application based upon a determination that the proposed plan, as submitted, does not meet the Standards in Section 7 or adequately protects water resources, as set forth in this Bylaw.

4. The *[Stormwater Authority]* may disapprove an application "without prejudice" where an applicant fails to provide requested additional information that in the *[Stormwater Authority's]* opinion is needed to adequately describe the proposed project. Information shall generally be limited to those items listed in Section 6.0 L) of these Regulations.

H) Failure of the *[Stormwater Authority]* to take final action upon an Application within *[30 calendar days]* of receipt of a complete application shall be deemed to be approval of said Application. Upon certification by the Town Clerk that the allowed time has passed without *[Stormwater Authority]* action, the *[Stormwater Authority]* must issue a Stormwater Management Permit.

I) Plan Changes

The permittee, must notify the *[Stormwater Authority]* in writing of any drainage change or alteration in the system authorized in a Stormwater Management Permit before any change or

alteration is made. If the *[Stormwater Authority]* determines that the change or alteration is significant, based on the Stormwater Management Standards in Section 7 and accepted construction practices, the *[Stormwater Authority]* may require that an amended application be filed.

J) Appeals of Actions of the *[Stormwater Authority]*

A decision of the *[Stormwater Authority]* shall be final. Further relief of a decision by the *[Stormwater Authority]* made under these Regulations shall be reviewable in the Superior Court in an action filed within *[60 days]* thereof, in accordance with M.G.L. Ch 249. § 4. An appeal of an action by a board, commission or department that has current regulatory authority for a project and/or activity shall be conducted under the applicable appeal provisions of said board, commission and/or department of the Town of *[____]*. Such an appeal shall result in revocation of the written approval as described under Section 4 of these Regulations, until such time as the appeal process of the applicable board, commission and/or department has been resolved.

K) Project Completion

At completion of the project the permittee shall submit as-built record drawings of all structural stormwater controls and treatment best management practices required for the site as required in Section 7. The as-built drawing shall show deviations from the approved plans, if any, and be certified by a Registered Professional Engineer.

L) Stormwater Management Plan Contents

1. The application for a stormwater management permit shall include the submittal of a Stormwater Management Plan to the *[Stormwater Authority]*. This Stormwater Management Plan shall contain sufficient information for the *[Stormwater Authority]* to evaluate the environmental impact, effectiveness, and acceptability of the measures proposed by the applicant for reducing adverse impacts from stormwater runoff. This plan shall be in accordance with the criteria established in these regulations and must be submitted with the stamp and signature of a Professional Engineer (PE) licensed in the Commonwealth of Massachusetts.

2. The Stormwater Management Plan shall fully describe the project in drawings, narrative, and calculations. It shall include:

    a) Contact Information. The name, address, and telephone number of all persons having a legal interest in the property and the tax reference number and parcel number of the property or properties affected;
    b) A locus map;
    c) The existing zoning, and land use at the site;
    d) The proposed land use;
    e) The location(s) of existing and proposed easements;
    f) The location of existing and proposed utilities;
    g) The site's existing & proposed topography with contours at 2 foot intervals,
    h) The existing site hydrology;
    i) A description & delineation of existing stormwater conveyances, impoundments, and wetlands on or adjacent to the site or into which stormwater flows;
    j) A delineation of 100-year flood plains, if applicable;
    k) Estimated seasonal high groundwater elevation in areas to be used for stormwater retention, detention, or infiltration;
    l) The existing and proposed vegetation and ground surfaces with runoff coefficients for each;

m) A drainage area map showing pre and post construction watershed boundaries, drainage area and stormwater flow paths, including municipal drainage system flows;

n) A description and drawings of all components of the proposed stormwater management system including:

i. Locations, cross sections, and profiles of all brooks, streams, drainage swales and their method of stabilization;
ii. All measures for the detention, retention or infiltration of water;
iii. All measures for the protection of water quality;
iv. The structural details for all components of the proposed drainage systems and stormwater management facilities;
v. Notes on drawings specifying materials to be used, construction specifications, and expected hydrology with supporting calculations;
vi. Proposed improvements including location of buildings or other structures, impervious surfaces, and drainage facilities, if applicable;
vii. Any other information requested by the *[Stormwater Authority]*.

o) Hydrologic and hydraulic design calculations for the pre-development and post-development conditions for the design storms specified in this Regulation. Such calculations shall include:

i. Description of the design storm frequency, intensity and duration;
ii. Time of concentration;
iii. Soil Runoff Curve Number (RCN) based on land use and soil hydrologic group;
iv. Peak runoff rates and total runoff volumes for each watershed area;
v. Information on construction measures used to maintain the infiltration capacity of the soil where any kind of infiltration is proposed;
vi. Infiltration rates, where applicable;
vii. Culvert capacities;
viii. Flow velocities;
ix. Data on the increase in rate and volume of runoff for the specified design storms, and
x. Documentation of sources for all computation methods and field test results.

p) Post-Development downstream analysis if deemed necessary by the *[Stormwater Authority];*

q) Soils Information from test pits performed at the location of proposed stormwater management facilities, including but not limited to soil descriptions, depth to seasonal high groundwater, depth to bedrock, and percolation rates. Soils information will be based on site test pits logged by a Massachusetts Registered Soil Evaluator, or a Massachusetts Registered Professional Engineer;

r) Landscaping plan describing the woody and herbaceous vegetative stabilization and management techniques to be used within and adjacent to the stormwater practice.

M) Operation and Maintenance Plan Contents

An Operation and Maintenance plan (O&M Plan) is required at the time of application for all projects. The maintenance plan shall be designed to ensure compliance with the Permit, this Bylaw and that the Massachusetts Surface Water Quality Standards, 314, CMR 4.00 are met in all seasons and throughout the life of the system. The Operation and Maintenance Plan shall remain on file with the *[Stormwater Authority]* and shall be an ongoing requirement. The O&M Plan shall include:

1. The name(s) of the owner(s) for all components of the system;

2. A map showing the location of the systems and facilities including catch basins, manholes/access lids, main, and stormwater devices;

3. Maintenance agreements that specify:

    a) The names and addresses of the person(s) responsible for operation and maintenance;
    b) The person(s) responsible for financing maintenance and emergency repairs;
    c) An Inspection and Maintenance Schedule for all stormwater management facilities including routine and non-routine maintenance tasks to be performed;
    d) A list of easements with the purpose and location of each;
    e) The signature(s) of the owner(s).

4. Stormwater Management Easement(s)

    a) Stormwater management easements shall be provided by the property owner(s) as necessary for:

        i. Access for facility inspections and maintenance;
        ii. Preservation of stormwater runoff conveyance, infiltration, and detention areas and facilities, including flood routes for the 100-year storm event;
        iii. Direct maintenance access by heavy equipment to structures requiring regular maintenance.

    b) The purpose of each easement shall be specified in the maintenance agreement signed by the property owner.

    c) Stormwater management easements are required for all areas used for off-site stormwater control, unless a waiver is granted by the [*Stormwater Authority*].

    d) Easements shall be recorded with the Plymouth County Registry of Deeds prior to issuance of a Certificate of Completion by the *[Stormwater Authority].*

5. Changes to Operation and Maintenance Plans

    a) The owner(s) of the stormwater management system must notify the *[Stormwater Authority]* of changes in ownership or assignment of financial responsibility.

    b) The maintenance schedule in the Maintenance Agreement may be amended to achieve the purposes of this Regulation by mutual agreement of the *[Stormwater Authority]* and the Responsible Parties. Amendments must be in writing and signed by all Responsible Parties. Responsible Parties shall include owner(s), persons with financial responsibility, and persons with operational responsibility.

7.0 POST-DEVELOPMENT STORMWATER MANAGEMENT CRITERIA

A) At a minimum all projects shall comply with the performance standards of the most recent version of Massachusetts Department of Environmental Protection (DEP) Stormwater Management Policy, as well as the following:

B) General Criteria

The following general performance criteria shall be applicable to all stormwater management plans, unless otherwise provided for in this Regulation:

1. No Untreated Discharges

   All stormwater runoff generated from land development and land use conversion activities shall not discharge untreated stormwater runoff directly to a wetland, local water body, municipal drainage system, or abutting property, without adequate treatment.

2. Channel Protection

   Protection of channels from bank and bed erosion and degradation shall be provided by

   [attenuating the 24-hour extended detention storage of runoff of the post-development 1-year, 24-hour return frequency storm event] (default option – optimal) OR

   [controlling the peak discharge rate from the 2-yr storm event to the pre-development rate as required by the MA DEP Stormwater Management Policy] (alternative option – minimum)

3. Overbank Flooding Protection

   Downstream overbank flood and property protection shall be provided by

   [attenuating the post-development peak discharge rate to the pre-development rate for the 10-year, 24-hour return frequency storm event as required by the MA DEP Stormwater Management Policy]. (default option - optimal)

4. Extreme Flooding Protection

   Extreme flooding and public safety protection shall be provided by

   [attenuating the peak discharge rate from the 100-yr, 24-hour return frequency storm event to the pre-development rates] (default option - optimal) OR

   [controlling and safely conveying the 100-year, 24 hour return frequency storm event such that flooding is not exacerbated] (alternative option - minimum) OR

   [evaluating the 100-year, 24-hour return frequency storm event to demonstrate no increased flooding impacts off-site, as required by the MA DEP Stormwater Management Policy] (another alternative option - minimum)

5. Recharge

   a) Annual groundwater recharge rates shall be maintained, by promoting infiltration through the use of structural and non-structural methods. At a minimum, annual recharge from the post development site shall mimic the annual recharge from pre-development site conditions.

   b) The stormwater runoff volume to be recharged to groundwater should be determined using the methods prescribed in the latest version of *[the Massachusetts DEP Stormwater Management Manual or an equivalent qualifying local manual].* The recharge requirements shall apply to all activities within the jurisdiction of this Regulation except as noted, and unless specifically waived by *[Stormwater Authority]*. The recharge criterion is not required for any portion of a site designated as a stormwater hotspot (see Section 7.10 of this Regulation). In addition, the *[Stormwater Authority*] may relax or eliminate the recharge requirement at its discretion, if the site is situated on unsuitable soils or is in a redevelopment area with documentation of prior contaminated soils.

6. Structural Practices for Water Quality

   a) Presumed Compliance with Massachusetts Water Quality Standards *(default option - minimum)*

      All structural stormwater management facilities shall be selected and designed using the appropriate criteria from the most recent version of the Massachusetts DEP Stormwater Management Manual.

      For other structural stormwater controls not included in the Massachusetts Stormwater Management Manual, or for which pollutant removal rates have not been provided, the effectiveness and pollutant removal of the structural control must be documented through prior studies, literature reviews, or other means and receive approval from the [*Stormwater Authority*] before being included in the design of a stormwater management system.

      Structural best management practices (BMPs) must be designed to remove [80%] of the average annual post development total suspended solids (TSS) and [40%] for total phosphorus [TP], and [30%] for total nitrogen (TN). It is presumed that a BMP complies with this performance goal if it is:

      i) Sized to capture the prescribed water quality volume;
      ii) Designed according to the specific performance criteria outlined in the *[Massachusetts Stormwater Management Manual or an approved local equivalent];*
      iii) Constructed properly; and
      iv) Maintained regularly.

   b) Pollutant Loading Calculation Assessment *(additional option - optimal)*

      i) For subdivisions of *[30]* lots or more, any commercial project with a building *[10,000]* square feet or more, or *[any project in an area designated by the Stormwater Authority as a sensitive/critical area],* a pollutant loading calculation shall be conducted to document compliance with water quality standards by calculating pre-development loads, calculating uncontrolled post-development loads and then

applying a prescribed pollutant removal efficiency to selected practices to arrive at a net pollutant load delivery. The post-developed load must be equal to or less than the pre-developed load.

ii) The methodology for this calculation shall be in accordance with *[reference approved local method/approach]*.

See Appendix A of these Model Stormwater Regulations for an example methodology for calculating pollutant load and assessing compliance.

7. Water Quality Volume

The prescribed water quality volume required in the sizing of a structural stormwater practice shall be

[calculated as 1.2 x total watershed area x runoff coefficient (Rv), where Rv = 0.05 + 0.009 (I%) and I% = percent of impervious area] *(default option – optimal) OR*

[0.50 inches x the total impervious area of the drainage area and 1.0 inches x the total impervious area of the drainage area in critical areas, as specified in the Massachusetts DEP Stormwater Policy] *(alternative option – minimum)*

8. Hydrologic Basis for Design of Structural Practices

For facility sizing criteria, the basis for hydrologic and hydraulic evaluation of development sites are as follows:

a) Impervious cover is measured from the site plan and includes any material or structure on or above the ground that prevents water from infiltrating through the underlying soil. Impervious surface is defined to include, without limitation: paved parking lots, sidewalks, roof tops, driveways, patios, and paved, gravel and compacted dirt surfaced roads.

b) Off-site areas shall be assessed based on their “pre-developed condition” for computing the water quality volume (i.e, treatment of only on-site areas is required). However, if an offsite area drains to a proposed BMP, flow from that area must be accounted for in the sizing of a specific practice.

c) Off-site areas draining to a proposed facility should be modeled as "present condition" for peak-flow attenuation requirements.

d) The length of sheet flow used in time of concentration calculations is limited to no more than 50 feet for predevelopment conditions and 50 feet for post development conditions.

e) Detention time for the one-year storm is defined as the center of mass of the inflow hydrograph and the center of mass of the outflow hydrograph.

f) The models TR-55 and TR-20 (or approved equivalent) will be used for determining peak discharge rates.

g) The standard for characterizing pre-development land use for on-site areas shall be woods.

h) For purposes of computing runoff, all pervious lands in the site shall be assumed prior to development to be in good condition regardless of conditions existing at the time of

computation.

i) If an off-site area drains to a facility, off-site areas should be modeled, assuming an "ultimate buildout condition" upstream.

j) Determination of flooding and channel erosion impacts to receiving streams due to land development projects shall be measured at each point of discharge from the development project and such determination shall include any runoff from the balance of the watershed which also contributes to that point of discharge.

k) The specified design storms shall be defined as a 24-hour storm using the rainfall distribution recommended by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) or the Northeast Regional Climate Center "Atlas of Precipitation Extremes for the Northeastern United State and Southeastern Canada."

l) Proposed residential, commercial, or industrial subdivisions shall apply these stormwater management criteria to the land development as a whole. Individual lots in new subdivisions shall not be considered separate land development projects, but rather the entire subdivision shall be considered a single land development project. Hydrologic parameters shall reflect the ultimate land development and shall be used in all engineering calculations.

9. Sensitive Areas

Stormwater discharges to critical areas with sensitive resources (i.e., shellfish beds, swimming beaches, aquifer recharge areas, water supply reservoirs) may be subject to additional criteria, or may need to utilize or restrict certain stormwater management practices at the discretion of the *[Stormwater Authority].* The *[Stormwater Authority]* may designate sensitive areas and specific criteria for these areas after conducting a public hearing in accordance with the provisions of Section 4.0 of the Town of *[_____]* Stormwater Bylaw.

10. Hotspots

Stormwater discharges from land uses or activities with higher potential pollutant loadings, known as "hotspots", as defined in the most recent version of the *[MA DEP Stormwater Management Manual or an equivalent qualifying local manual]* –require the use of specific stormwater management BMPs as specified in the most recent version of the *[MA DEP Stormwater Management Manual or an equivalent qualifying local manual]*. The use of infiltration practices without pretreatment is prohibited.

11. *[Stormwater Credits*

The use of Better Site Design and nonstructural stormwater management measures is encouraged to minimize reliance on structural stormwater management measures. The use of one or more site design measures by the applicant may allow for a reduction in the water quality treatment volume required and the stream channel protection volume required. The applicant may, if approved by the [Stormwater Authority], take credit for the use of stormwater better site design practices to reduce some of the requirements specified in the criteria section of these regulations. The site design practices that qualify for these credits and procedures for applying and calculating the credits are identified in Appendix B of this Model Regulation.]

8.0 WAIVERS

A) The *[Stormwater Authority]* may waive strict compliance with any requirement of the Town of *[_____]* Stormwater Bylaw or the rules and regulations promulgated hereunder, where:

1. such action is allowed by federal, state and local statutes and/or regulations,
2. is in the public interest, and
3. is not inconsistent with the purpose and intent of the Town of *[_____]* Stormwater Bylaw.

B) Any applicant may submit a written request to be granted such a waiver. Such a request shall be accompanied by an explanation or documentation supporting the waiver request and demonstrating that strict application of the Bylaw does not further the purposes or objectives of this bylaw.

C) All waiver requests shall be acted on within *[30 calendar days]* and written finding will be provided by the *[Stormwater Authority]*.

D) If in the *[Stormwater Authority's]* opinion, additional time or information is required for review of a waiver request, the *[Stormwater Authority]* may request an extension of the review period. In the event the applicant objects to an extension, or fails to provide requested information, the waiver request may be denied, "without prejudice" by the *[Stormwater Authority]*.

9.0 SURETY

The [*Stormwater Authority*] may require the permittee to post before the start of land disturbance or construction activity, a surety bond, irrevocable letter of credit, cash, or other acceptable security. The form of the bond shall be approved by town counsel, and be in an amount deemed sufficient by the *[Stormwater Authority]* to ensure that the work will be completed in accordance with the permit. If the project is phased, the *[Stormwater Authority*] may release part of the bond as each phase is completed in compliance with the permit but the bond may not be fully released until the *[Stormwater Authority]* has received the final inspection report as required by Section 11 of these Regulations and issued a Certificate of Completion.

10.0 CONSTRUCTION INSPECTIONS

A) Notice of Construction Commencement. The applicant must notify the *[Stormwater Authority]* in advance before the commencement of construction. In addition, the applicant must notify the *[Stormwater Authority]* in advance of construction of critical components of the SWM facility.

B) At the discretion of the *[Stormwater Authority],* periodic inspections of the stormwater management system construction shall be conducted by the Town Officer or a professional engineer or their designee who has been approved by the *[Stormwater Authority].* All inspections shall be documented and written reports prepared that contain the following information:

1. The date and location of the inspection;

2. Whether construction is in compliance with the approved stormwater management plan;

3. Variations from the approved construction specifications; and

4. Any other variations or violations of the conditions of the approved stormwater management plan.

C) The *[Stormwater Authority]* or its designee shall inspect the project site at the following stages, at a minimum:

1. Initial Site Inspection: prior to approval of any plan;

2. Erosion Control Inspection: to ensure erosion control practices are in accord with the filed plan;

3. Stormwater Management System Inspection: An inspection will be made of the completed stormwater management system, prior to backfilling of any underground drainage or stormwater conveyance structures.

4. Final Inspection

   a) After the stormwater management system has been constructed and before the surety has been released, all applicants are required to submit actual “as built” plans for any stormwater management facilities or practices after final construction is completed and must be certified by a Professional Engineer.

   b) The *[Stormwater Authority]* shall inspect the system to confirm its "as-built" features. This inspector shall also evaluate the effectiveness of the system in an actual storm. If the inspector finds the system to be adequate he shall so report to the *[Stormwater Authority]* which will issue a Certificate of Completion. As built plans shall be full size plans which reflect the “as built” conditions, including all final grades, developed by a Professional Engineer. All changes to project design should be recorded in red ink on plans to define changes made. All work deleted, corrections in elevations, and changes in materials, should be shown on the as built drawings.

D) Inadequacy of System

1. If the system is found to be inadequate by virtue of physical evidence of operational failure, even though it was built as called for in the Stormwater Management Plan, it shall be corrected by the applicant before the Certificate of Completion is released. If the applicant fails to act the *[Stormwater Authority]* may use the surety bond to complete the work.

2. If the *[Stormwater Authority]* determines that there is a failure to comply with the plan, the property owner shall be notified in writing of the nature of the violation and the required corrective actions. A Stop Work Order shall be issued until any violations are corrected and all work previously completed has received approval by the *[Stormwater Authority]*.

11.0 CERTIFICATE OF COMPLETION

A) Upon completion, the applicant is responsible for certifying that the completed project is in accordance with the approved plans and specifications and shall provide regular inspections sufficient to adequately document compliance.

B) The *[Stormwater Authority]* will issue a letter certifying completion upon receipt and approval of the final inspection and reports and/or upon otherwise determining that all work of the permit has been satisfactorily completed in conformance with this Regulation.

12.0 PERPETUAL INSPECTION AND MAINTENANCE

A) Maintenance Responsibility

1. Stormwater management facilities and practices included in a stormwater management plan with an inspection and maintenance agreement in accordance with Section 6.M of these Regulations must undergo ongoing inspections to document maintenance and repair needs and ensure compliance with the requirements of the agreement, the plan and this Regulation.

2. The owner of the property on which work has been done pursuant to this Regulation for private stormwater management facilities, or any other person or agent in control of such property, shall maintain in good condition and promptly repair and restore all grade surfaces, walls, drains, dams and structures, vegetation, erosion and sedimentation controls, and other protective devices. Such repairs or restoration and maintenance shall be in accordance with approved plans.

B) Maintenance Inspections

1. All stormwater management facilities must undergo inspections to document maintenance and repair needs and ensure compliance with the requirements of this bylaw and accomplishment of its purposes as specified in the Operation and Maintenance Plan and Maintenance Agreement described under Section 6.M of these regulations.

2. At a minimum, inspections shall occur during the first year of operation and at least once every [three] years thereafter. In addition, a maintenance agreement as specified under Section 6.M of these regulations between the owner and the *[Stormwater Authority]* shall be executed for privately-owned stormwater management systems that specifies the Responsible Party for conducting long term inspections.

3. Inspection reports shall be submitted to and maintained by the *[Stormwater Authority]* for all stormwater management systems. Inspection reports for stormwater management systems shall include:

   a) The date of inspection;
   b) Name of inspector;
   c) The condition of:

      i. Pretreatment devices
      ii. Vegetation or filter media
      iii. Fences or other safety devices
      iv. Spillways, valves, or other control structures
      v. Embankments, slopes, and safety benches
      vi. Reservoir or treatment areas
      vii. Inlet and outlet channels and structures
      viii. Underground drainage
      ix. Sediment and debris accumulation in storage and forebay areas (including catch basins)
      x. Any nonstructural practices
      xi. Any other item that could affect the proper function of the stormwater management system

   d) Description of the need for maintenance;

C) Right-of-Entry for Inspection

The terms of the inspection and maintenance agreement as specified in Section 6.M of these regulations shall provide for the [*Stormwater Authority*] or its designee to enter the property at reasonable times and in a reasonable manner for the purpose of inspection. The *[Stormwater Authority]*, its agents, officers, and employees shall have authority to enter upon privately owned land for the purpose of performing their duties under this Regulation and may make or cause to be made such examinations, surveys, or sampling as the *[Stormwater Authority]* deems necessary, subject to the constitutions and laws of the United States and the Commonwealth.

D) Records of Maintenance and Repair Activities

Parties responsible for the operation and maintenance of a stormwater management facility shall provide records of all maintenance and repairs to the *[Stormwater Authority],* upon request. Parties responsible for the operation and maintenance of a stormwater management facility shall make records of the installation and of all maintenance and repairs, and shall retain the records for at least [5] years. These records shall be made available to the *[Stormwater Authority]* during inspection of the facility and at other reasonable times upon request.

E) Failure to Maintain

1. If a responsible person fails or refuses to meet the requirements of the inspection and maintenance agreement, the *[Stormwater Authority]*, after *[thirty (30)]* days written notice (except, that in the event the violation constitutes an immediate danger to public health or public safety, 24 hours notice shall be sufficient), may correct a violation of the design standards or maintenance requirements by performing the necessary work to place the facility or practice in proper working condition. The *[Stormwater Authority]* may assess the owner(s) of the facility for the cost of repair work which shall be a lien on the property.

Note: Each Town should investigate whether the [Stormwater Authority] would be authorized to impose a lien on property through its regulations and/or has the ability to automatically establish a lien. The authority to establish a lien is sometimes by specific statute.

2. After notification is provided to the person responsible for carrying out the maintenance plan of any deficiencies discovered from an inspection of a stormwater management system, the person responsible for carrying out the maintenance plan shall have 30 days or other time frame mutually agreed to between the *[Stormwater Authority]* and the person responsible for carrying out the maintenance plan to correct the deficiencies. The *[Stormwater Authority]* shall then conduct a subsequent inspection to ensure completion of repairs.

13.0 ENFORCEMENT

A) The *[Stormwater Authority]* or an authorized agent of the *[Stormwater Authority]* shall enforce this Bylaw, regulations, orders, violation notices, and enforcement orders, and may pursue all civil, criminal and non-criminal remedies for such violations.

B) Notices and Orders

1. The *[Stormwater Authority]* or an authorized agent of the *[Stormwater Authority]* may issue a written notice of violation or enforcement order to enforce the provisions of this Bylaw or the regulations thereunder, which may include requirements to:

a) Cease and desist from construction or land disturbing activity until there is compliance with the Bylaw and the stormwater management permit;

b) Repair, maintain; or replace the stormwater management system or portions thereof in accordance with the operation and maintenance plan;

c) Perform monitoring, analyses, and reporting;

d) Fix adverse impact resulting directly or indirectly from malfunction of the stormwater management system.

2. If the enforcing person determines that abatement or remediation of adverse impacts is required, the order may set forth a deadline by which such abatement or remediation must be completed. Said order may further advise that, should the violator or property owner fail to abate or perform remediation within the specified deadline, the Town of *[_____]* may, at its option, undertake such work, and the property owner shall reimburse the Town of *[_____]* for expenses incurred.

3. Within thirty (30) days after completing all measures necessary to abate the violation or to perform remediation, the violator and the property owner shall be notified of the costs incurred by the Town of *[_____]* including administrative costs. The violator or property owner may file a written protest objecting to the amount or basis of costs with the *[Stormwater Authority]* within thirty (30) days of receipt of the notification of the costs incurred. If the amount due is not received by the expiration of the time in which to file a protest or within thirty (30) days following a decision of the *[Stormwater Authority]* affirming or reducing the costs, or from a final decision of a court of competent jurisdiction, the costs shall become a special assessment against the property owner and shall constitute a lien on the owner's property for the amount of said costs. Interest shall begin to accrue on any unpaid costs at the statutory rate provided in G.L. Ch. 59, § 57, after the thirty-first day at which the costs first become due.

C) Any person who violates any provision of the Town of *[_____] Stormwater* Bylaw, or regulation, order or permit issued thereunder, may be ordered to correct the violation and/or shall be punished by a fine of not more than *[$_____]*. Each day or part thereof that such violation occurs or continues shall constitute a separate offense.

D) Non-Criminal Disposition. As an alternative to criminal prosecution or civil action, the Town of *[_____]* may elect to utilize the non-criminal disposition procedure set forth in G.L. Ch. 40, §21D and *[the citation town enabling vote/bylaw (if applicable)]* of the Town of *[_____]* in which case *[title or other authorized agent]* of the Town of *[_____]* shall be the enforcing person. The penalty for the 1st violation shall be *[$_____].* The penalty for the 2nd violation shall be *[$_____].* The penalty for the 3rd and subsequent violations shall be *[$ _____].* Each day or part thereof that such violation occurs or continues shall constitute a separate offense.

E) Appeals**.** The decisions or orders of the [*Stormwater Authority*] shall be final. Further relief shall be to a court of competent jurisdiction.

F) Remedies Not Exclusive. The remedies listed in this Bylaw are not exclusive of any other remedies available under any applicable federal, state or local law.

14.0 SEVERABILITY

The invalidity of any section, provision, paragraph, sentence, or clause of these Regulations shall not invalidate any section, provision, paragraph, sentence, or clause thereof, nor shall it invalidate any permit or determination that previously has been issued.

Appendix A: Method of Pollutant Load Calculation for Compliance with Water Quality Standards

This appendix is included with the Model Stormwater Bylaw and Regulations to provide additional guidance to municipalities considering the adoption of the loading calculation approach as a requirement for large or complex projects, or projects located in sensitive areas. Prior to adoption of the sample approach presented here, each municipality should review the methodology in detail and generate the appropriate regulatory language to effectively implement this requirement.

For certain magnitude projects, a loading calculation analysis may be required by applicants to document compliance with water quality standards by calculating pre-development pollutant loads, calculating uncontrolled post-development pollutant loads and then applying a prescribed pollutant removal efficiency to selected practices to arrive at a net pollutant load delivery. The post-developed load must be equal to or less than the pre-developed load.

Pollutant Loading Calculation Approach for Compliance

Because of the potential for some projects to exceed pre-developed loads, even with Best Management Practices (BMPs) that are designed to meet performance standards, the *[Stormwater Authority]* may require applicants to prepare pollutant loading calculations that are intended to keep pollutant levels to the pre-developed condition baseline. The *[Stormwater Authority]* may require the maintenance of a "no net increase" in pollutant load; new development cannot exceed the pre-developed load based on pre-developed land cover conditions that are present at the time an applicant files for a Stormwater Management Permit. Loading from redevelopment projects may be required to be reduced 10% from existing levels. The *[Stormwater Authority]* may require a pollutant loading assessment for targeted pollutants to a receiving water body, based on pollutants of concern (i.e., phosphorus for freshwater systems, nitrogen for saltwater systems, and/or sediment).

The following computational exercise may be used to ensure that above provisions are met:

1. Loadings are computed for the pre-developed condition based on pre-development pollutant loading values;

2. The load from the proposed development is computed based on the proposed level of impervious cover and the appropriate loading factor for that land use. The *[Stormwater Authority]* shall require that the net difference between these two loads be reduced (or captured) by effective stormwater treatment practices.

This appendix presents data and a methodology for using the Simple Method (Schueler, 1987) to estimate pollutant load from a site or drainage area.

The Simple Method estimates stormwater runoff pollutant loads for urban areas. The technique requires a modest amount of information, including the subwatershed drainage area and impervious cover, stormwater runoff pollutant concentrations, and annual precipitation. With the Simple Method, an applicant can either break up land use into specific areas, such as residential, commercial, industrial, and roadway and calculate annual pollutant loads for each type of land, or

utilize more generalized pollutant values for "urban runoff." It is also important to note that these values may vary depending on other variables such as the age of development.

The Simple Method estimates pollutant loads for chemical constituents as a product of annual runoff volume and pollutant concentration, as:

$$\mathbf{L = 0.226 * R * C * A}$$

Where: L = Annual pollutant load (lbs)
R = Annual runoff (inches)
C = Pollutant concentration (mg/l)
A = Area (acres)
0.226 = Unit conversion factor

For bacteria, the equation is slightly different, to account for the differences in units. The modified equation for bacteria is:

$$\mathbf{L = 103 * R * C * A}$$

Where: L = Annual load (billion colonies)
R = Annual runoff (inches)
C = Bacteria concentration (1,000/ ml)
A = Area (acres)
103 = Unit conversion factor

Stormwater pollutant concentrations can be estimated from local or regional data, or from national data sources. Table A.1 presents typical concentration data for pollutants in urban stormwater.

Table A.1 National Median Concentrations for Chemical Pollutants in Stormwater Runoff

Constituent	Units	Urban Runoff
TSS	mg/l	54.51
TP	mg/l	0.261
TN	mg/l	2.001
Cu	ug/l	11.11
Pb	ug/l	50.71
Zn	ug/l	1291
F Coli	1,000 col/ ml	1.52

Sources:
1: Pooled NURP/USGS (Smullen and Cave, 1998)
2: Schueler (1999)

In addition, some source areas appear to be particularly important for some pollutants. Table A.2 summarizes these data for several key source areas. It is important to note that, because the Simple Method computes runoff based on an impervious area fraction, it cannot be easily used to isolate pervious sources, such as lawns. In addition, a composite runoff concentration can be developed based on the fraction of lawn, driveway, and roof on a residential site, for example.

Table A.2 Pollutant Concentration from Different Source Areas/Land Uses							
Constituent	**TSS[1]**	**TP[2]**	**TN[3]**	**F Coli[1]**	**Cu[1]**	**Pb[1]**	**Zn[1]**
Units	mg/l	mg/l	mg/l	1,000 col/ ml	ug/l	ug/l	ug/l
Residential Roof	19	0.11	1.5	0.26	20	21	312
Commercial Roof	9	0.14	2.1	1.1	7	17	256
Industrial Roof	17	-	-	5.8	62	43	1,390
Commercial/Res Parking	27	0.15	1.9	1.8	51	28	139
Industrial Parking	228	-	-	2.7	34	85	224
Residential Street	172	0.55	1.4	37	25	51	173
Commercial Street	468	-	-	12	73	170	450
Rural Highway	51	-	22	-	22	80	80
Urban Highway	142	0.32	3.0	-	54	400	329
Lawns	80	2.1	9.1	24	17	17	50
Landscaping	37	-	-	94	94	29	263
Driveway	173	0.56	2.1	17	17	-	107
Heavy Industrial	124	-	-	-	148	290	1600
Residential (general)[4]	100	0.40	2.2	-	-	18	37
Commercial (general)[4]	75	0.20	2.0	-	-	370	250
Industrial (general)[4]	120	0.40	2.5	-	-	-	-
Sources: 1: Claytor and Schueler (1996) 2: Average of Steuer et al. (1997), Bannerman (1993) and Waschbusch (2000) 3: Steuer et al. (1997) 4: Caraco (2001), default values averaged from several individual assessments							

Pre-developed loads are usually estimated from specific loading rates based on pre-developed land cover. The following lists typical unit loading rates for key pollutant parameters from forest and rural land uses (Caraco, 2001).

Forest:

TSS: 100 lbs/acre/year
TP: 0.2 lbs/acre/year
TN: 2.0 lbs/acre/year
FC bacteria: 12 billion col/acre/year

Rural:

TSS: 300 lbs/acre/year
TP: 0.75 lbs/acre/year
TN: 5.0 lbs/acre/year
FC bacteria: 39 billion col/acre/year

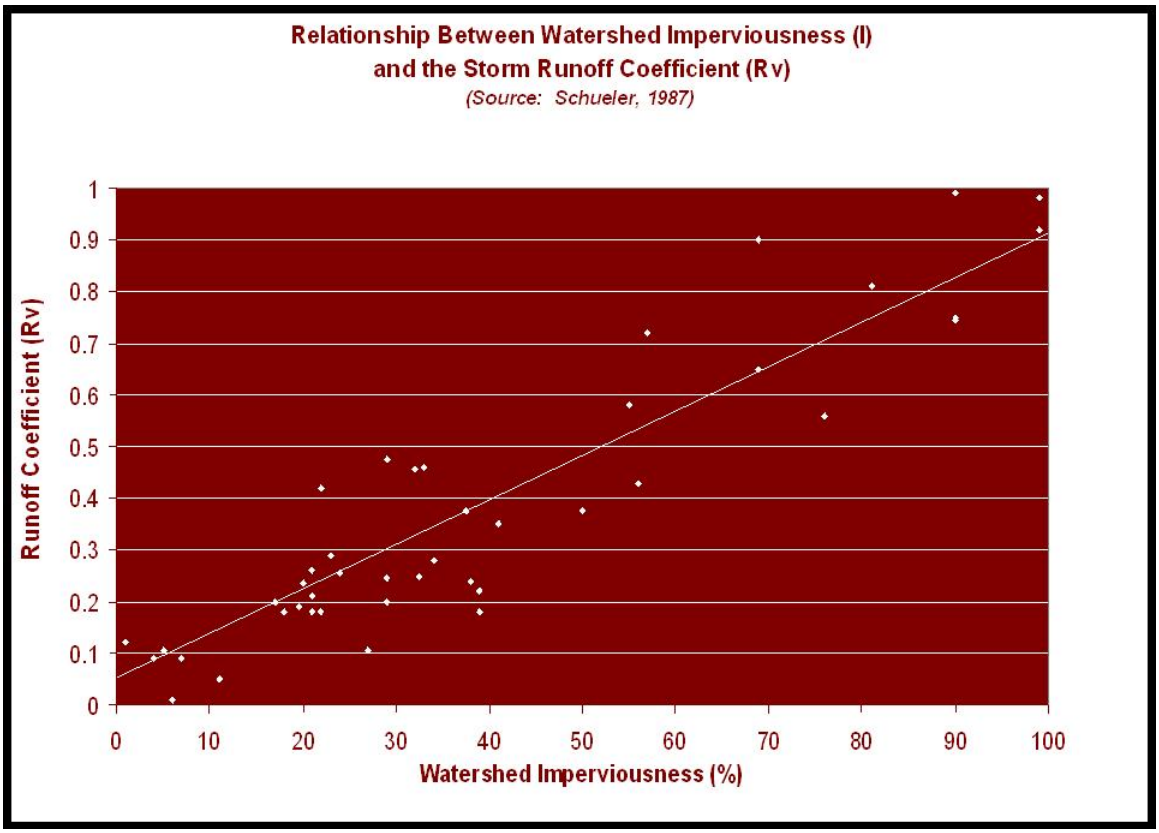

Figure A.1: Relationship between Watershed Imperviousness and the Stormwater Runoff Coefficient

The Simple Method calculates annual runoff as a product of annual runoff volume, and a runoff coefficient (Rv). Runoff volume is calculated as:

$$\mathbf{R = P * P_j * Rv}$$

Where: R = Annual runoff (inches)
P = Annual rainfall (inches)
P_j = Fraction of annual rainfall events that produce runoff (usually 0.9)
Rv = Runoff coefficient

In the Simple Method, the runoff coefficient is calculated based on impervious cover in the drainage area. This relationship is shown in Figure A.1. Although there is some scatter in the data, watershed imperviousness does appear to be a reasonable predictor of Rv. The following equation represents the best fit line the dataset (N=47, R2=0.71).

$$\mathbf{Rv=0.05+0.9I_a}$$

Where: I_a = Impervious fraction

The Simple Method uses different impervious cover values for separate land uses within a subwatershed. Representative impervious cover data, are presented in Table A.3 (Cappiella and Brown, 2001). In addition, Towns may have detailed impervious cover information if they

maintain a detailed land use/land cover GIS database, or applicants can measure impervious cover directly from site plans.

Table A.3 Land Use and Impervious Cover Estimates	
Land Use Category	**Mean Impervious Cover**
Agriculture	**2**
Open Urban Land*	**9**
2 Acre Lot Residential	**11**
1 Acre Lot Residential	**14**
1/2 Acre Lot Residential	**21**
1/4Acre Lot Residential	**28**
1/8 Acre Lot Residential	**33**
Townhome Residential	**41**
Multifamily Residential	**44**
Institutional**	**31-38%**
Light Industrial	**50-56%**
Commercial	**70-74%**

* Open urban land includes developed park land, recreation areas, golf courses, and cemeteries.

** Institutional is defined as places of worship, schools, hospitals, government offices, and police and fire stations

Source: Cappiella and Brown, 2001

The Simple Method should provide reasonable estimates of changes in pollutant export resulting from urban development activities. However, several caveats should be kept in mind when applying this method.

The Simple Method is most appropriate for assessing and comparing the relative stormflow pollutant load changes of different land use and stormwater management scenarios. The Simple Method provides estimates of storm pollutant export that are probably close to the "true" but unknown value for a development site, catchment, or subwatershed. However, it is very important not to overemphasize the precision of the results obtained. For example, it would be inappropriate to use the Simple Method to evaluate relatively similar development scenarios (e.g., 34.3% versus 36.9% Impervious cover). The Simple Method provides a general planning estimate of likely storm pollutant export from areas at the scale of a development site, catchment or subwatershed. More sophisticated modeling may be needed to analyze larger and more complex drainage areas.

In addition, the Simple Method only estimates pollutant loads generated during storm events. It does not consider pollutants associated with baseflow volume. Typically, baseflow is negligible or non-existent at the scale of a single development site, and can be safely neglected. However, catchments and subwatersheds do generate baseflow volume. Pollutant loads in baseflow are generally low and can seldom be distinguished from natural background levels (NVPDC, 1980). Consequently, baseflow pollutant loads normally constitute only a small fraction of the total pollutant load delivered from an urban area. Nevertheless, it is important to remember that the load estimates refer only to storm event derived loads and should not be confused with the total pollutant load from an area. This is particularly important when the development density of an area is low. For example, in a large low density residential subwatershed (Imp. Cover < 5%), as

much as 75% of the annual runoff volume may occur as baseflow. In such a case, the annual baseflow nutrient load may be equivalent to the annual stormflow nutrient load.

The removal efficiencies of various BMPs are also needed to determine final annual pollutant loads. Table A.4 provides estimates of the average pollutant removal efficiency of the five BMP categories.

Table A.4 Suggested Pollutant Removal Rate for Stormwater BMPs (%)

Constituent	TSS	TP	TN	Metals[1]	Bacteria
Wet Ponds	80	50 (51)	35 (33)	60 (62)	70
Stormwater Wetlands	80[2] (76)	50 (49)	30	40 (42)	80 (78)
Filtering Practices	85 (86)	60 (59)	40 (38)	70 (69)	35 (37)
Infiltration Practices[4]	90[3] (95)	70	50 (51)	90[3] (99)	90[4]
Water Quality Swales	85 (84)	40 (39)	50[5] (84)	70	0 (-25)[6]

1. Average of zinc and copper. Only zinc for infiltration
2. Many wetland practices in the database were poorly designed, and we consequently adjusted sediment removal upward.
3. It is assumed that no practice is greater than 90% efficient.
4. Data inferred from sediment removal.
5. Actual data is based on only two highly performing practices.
6. Assume 0 rather than a negative removal.

Note: Data in parentheses represent median pollutant removal data reported in the *National Pollutant Removal Database - Revised Edition* (Winer, 2000).
(Source: CWP, 2001)

These data were adjusted for convenience and to reflect biases in the data. These efficiencies represent ideal pollutant removal rates that cannot be achieved at all sites. Of particular importance is how to account for practices applied in series (e.g., two ponds applied in sequence). If the volume within the practices adds up to the total water quality volume, they are assumed to act as a single practice with that volume. Otherwise, total pollutant removal should be determined by the following equation:

$$\mathbf{R = L\ [(E_1) + (1- E_1)E_2 + (1-((E_1)+(1- E_1)E_2)E_3 + \ldots]}$$

Where: R = Pollutant Removal (lbs)
L = Annual Load from Simple Method (lbs.)
E_i = Efficiency of the ith practice in a series

Another adjustment can be made to these removals to account for loss of effectiveness and irreducible concentrations. Evidence suggests that, at low concentrations, BMPs can no longer remove pollutants. Table A.5 depicts typical outflow concentrations for various BMPs. Another simplified way to account for this phenomenon is to reduce the efficiency of a second or third practice in a series. For example, the estimated removal efficiency could be cut in half to reflect inability to remove fine particles.

Table A.5 Typical BMP Effluent Concentrations					
Constituent	**TSS** (mg/l)	**TP** (mg/l)	**TN** (mg/l)	**Cu** (ug/l)	**Zn** (ug/l)
Wet Ponds	17	0.11	1.3	5.0	30
Wetlands	22	0.20	1.7	7.0	31
Filtering Practices	11	0.10	1.12	10	21
Infiltration Practices	17[1]	0.05[1]	3.8[1]	4.8[1]	39[1]
Open Channel Practices	14	0.19	1.12	10	53
1. Data based on fewer than five data points (Source: Winer, 2000)					

Summary of The Simple Method Calculation Procedure

1. Calculate Pre-Development Pollutant Load
   - Use the equation L = 0.226 * R * C * A (or L = 103 * R * C * A for bacteria) to determine pre-development pollutant loading, where R = P * P_j * Rv, C is determined by values in tables A.1 or A.2, and A is the area of the site. Rv is the predeveloped volumetric runoff coefficient, usually in the range of 0.1 for woods to 0.2 for meadow.
2. Calculate "Uncontrolled" Post-Development Pollutant Load
   - Use the equation L = 0.226 * R * C * A (or L = 103 * R * C * A for bacteria) to determine post-development pollutant loading without BMPs, where R = P * P_j * Rv, C is determined by values in tables A.1 or A.2, and A is the area of the site. Rv is determined by Rv=0.05+0.9Ia, where values from I_a may be determined by Table A.3.
3. Determine Efficiency Removal Rates of proposed BMPs
   - Use Table A.4 to obtain pollutant removal rates for the proposed BMPs. If more than one BMP is to be used in series, calculate the total effective removal rate using R = L [(E_1) + (1- E_1)E_2 + (1-((E_1)+(1- E_1)E_2)E_3 + …]
4. Determine "Controlled" Post-Development Pollutant Load
   - Multiply the uncontrolled post-development pollutant load by the total pollutant removal rate, to obtain the amount of pollutant removed.
   - Subtract the total amount of pollutant removed from the uncontrolled post-development load, to obtain the "controlled" post-development pollutant load.
5. Compare Controlled Development Load versus Pre-Development Load
   - If the post-development controlled load is less than or equal to the pre-development load, then the proposed design complies with the prescribed loading calculation criteria. If not, the designer must revise the project design to reduce the pollutant loadings, or revise the design to include an alternate system of BMPs.

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Appendix B: Example System of Stormwater Management Credits and Incentives

B.1 Stormwater Credits

The current stormwater management criteria in Massachusetts provides a strong general incentive to reduce impervious cover at the site level. The storage required to meet all of the sizing criteria (water quality, recharge, 2-year, 10-year, and 100-year control) are directly related to impervious cover. Any reductions in impervious cover result in smaller required storage volumes and, consequently, smaller land consumption areas and lower construction costs. In an effort to apply a more holistic approach to stormwater management, five specific non-structural practices called *stormwater credits*, or incentives for better environmental site design, are provided for designers that will significantly reduce the size and cost of structural practices.

Non-structural practices are increasingly recognized as a critical feature of effective stormwater management, particularly with respect to site design. In most cases, non-structural practices will need to be combined with structural practices to meet stormwater requirements. The key benefit of non-structural practices is that they can reduce the generation of stormwater from the site. In addition, they can provide partial removal of many pollutants and contribute to groundwater recharge. The five proposed non-structural stormwater credits are:

Credit 1. Disconnection of Rooftop Runoff
Credit 2. Disconnection of Non-Rooftop Runoff
Credit 3. Stream Buffers
Credit 4. Grass Channels
Credit 5. Environmentally Sensitive Development

This section describes each of the credits for the five groups of non-structural practices and specifies minimum criteria to be eligible for the credit. Towns may need to update or revise some of the local subdivision regulations and/or zoning bylaws to ensure that the credit will be applicable to their jurisdiction. In addition, the Massachusetts Department of Environmental Protection (DEP) will need to validate the volume reductions in order to ensure compliance with the Massachusetts Wetlands Protection Act.

The application of these credits does not relieve the design engineer or reviewer from the standard of engineering practice associated with safe conveyance of stormwater runoff and good drainage design.

Several of the stormwater credits apply towards meeting the Massachusetts Stormwater Policy's recharge requirement. The Massachusetts Stormwater Policy currently only recognizes a volume based approach to meeting this criterion. Recently however, it has been demonstrated that disconnecting impervious area to drain over pervious areas can result in significant recharge to groundwater. Therefore, some jurisdictions (most notably the States of Vermont and Maryland) have developed recharge criterion that credit recharge based on an "area method," as opposed to strictly a volume method. To better understand this approach both the "volume method" and "area method" are described as follows.

The intent of the recharge criteria (which is often denoted as Re_v) is to maintain pre-developed groundwater recharge rates at development sites to preserve existing water table elevations, thereby helping to support baseflow to streams and wetlands, as well as to help augment drinking water supplies.

The objective of the criteria is to mimic the average annual recharge rate for the prevailing hydrologic soil group(s) (HSG) present at a development site. Therefore, the recharge volume can be determined as a function of annual predevelopment recharge for a given soil group, average annual rainfall volume, and amount of impervious cover at a site. Being a function of site impervious cover, the criterion provides an incentive to engineers and developers to reduce site imperviousness.

The recharge can be satisfied by one of two methods or a combination of both. The first is designated as the "**Percent Volume Method**," and is based on infiltrating the recharge volume using one or more of the approved structural practices (such as infiltration trench, infiltration basins, or drywells). The second method is designated as the "**Percent Area Method**," and is based on draining runoff from some or all of a site impervious area through one or more of the approved nonstructural practices.

Based on this approach, the **Percent Volume Method** is as follows:

$Re_v = (F)(A)(I)/12$

Where: Re_v = Recharge volume (acre-feet)
F = Recharge factor (in inches, see below)
A = Site area (in acres)
I = Site imperviousness (expressed as a decimal)

Hydrologic Soil Group	Recharge Factor (F)
A	0.40
B	0.25
C	0.10
D	waived

An example calculation of this method is provided below.

> *Example*: A 50-acre site is to be developed as a residential subdivision near Burlington, MA. The impervious area for the development will be 20 acres (i.e., 40% imperviousness). Half of the impervious area overlays HSG "B" soils and half of the impervious area overlays HSG "C" soils. The recharge requirement would be calculated as follows:
>
> Compute a weighted F = [(0.25 in)(10 ac) + (0.10 in)(10 ac)]/20 ac = 0.175 inches
> Re_v = (0.175 in) (50 ac) (0.4)/(12 in/ft) = 0.29 ac-ft

Under the **Percent Area Approach**, the recharge requirement can be met by draining a calculated recharge area through one or more of several nonstructural approaches (this is where stormwater credits are most applicable). The calculation is as follows:

$Re_a = (F)(A)(I)$

Where: Re_a = Recharge area requiring treatment (acres)
F = Recharge factor based on HSG (same values as above, but dimensionless)
A = Site area in acres
I = Site imperviousness (expressed as a decimal)

The required recharge area (Re_a) is equivalent to the recharge volume and can be achieved by a non-structural practice (e.g., filtration of sheet flow from disconnected impervious surfaces). In addition, a combination of both of the methods can be used to meet the recharge requirement at a site.

If an applicant elects to utilize both the Percent Volume and Percent Area Methods to meet the recharge requirement, the following applies:

1. Calculate both the Re_v and Re_a for the site.
2. The site impervious area draining to an approved nonstructural practice is subtracted from the Re_a calculation from step 1, above;
3. The remaining Re_a is divided by the original Re_a to calculate a pro-rated percentage that needs to be met by the Percent Volume Method;
4. The pro-rated percent is multiplied by the original Re_v to calculate a new Re_v that must be met by an approved structural practice(s)

With this basic understanding of how the recharge requirement can be met on a project, it is now appropriate to review the suite of stormwater credits that can meet both recharge, water quality and, in a few cases, some of the water quantity controls as well.

B.2 Credit No. 1: Disconnection of Rooftop Runoff Credit

A credit is given when rooftop runoff is "disconnected" and then directed over to a pervious area where it can either infiltrate into the soil or flow over it with sufficient time and velocity to allow for filtering. The credit is typically obtained by grading the site to promote overland flow through vegetated channels or by providing bioretention[1] areas either on-lot or in common areas.

If a rooftop is adequately disconnected, the disconnected impervious area can be deducted from total impervious cover, therefore reducing water quality volume requirements. In addition, disconnected rooftops can be used to meet the recharge requirement as a non-structural practice under the **Percent Area Method**.

Restrictions on the Credit

The rooftop disconnection credit is subject to the following restrictions:

- Disconnection must be designed to adequately address the issue of basement seepage;
- The contributing length of rooftop to a discharge location shall be 75 feet or less;
- The rooftop contributing area to any one discharge location cannot exceed 1,000 $ft^{2;}$
- The length of the "disconnection" shall be equal to or greater than the contributing rooftop length;
- Disconnections will only be credited for residential lot sizes greater than 6,000 sq. ft;
- The entire vegetative "disconnection" shall be on a slope less than or equal to 5.0%;
- Where provided, downspouts must be at least 10 feet away from the nearest impervious surface to discourage re-connection to the drainage network;
- Where a gutter/downspout system is not used, the rooftop runoff must drain as either sheetflow from the structure or drain to a subsurface drain field that is not directly connected to the drainage network;
- Disconnections are encouraged on relatively permeable soils (HSGs A and B); therefore, no soil evaluation is required;
- In less permeable soils (HSGs C and D), the water table depth and permeability shall be evaluated by a professional engineer to determine if a spreading device is needed to provide sheetflow over grass surfaces. In some cases, dry wells (see Figure B.1), french drains or other temporary underground storage devices may be needed to compensate for a poor infiltration capability;
- For those rooftops draining directly to a stream buffer, one can only use either the rooftop disconnection credit or the stream buffer credit (Credit 3), not both; and
- To take credit for rooftop disconnection for a designated hotspot land use, the rooftop runoff must not co-mingle with runoff from any paved surfaces.

[1] Bioretention systems (also referred to as "rain gardens" or "biofilters") are so-called low impact development stormwater management systems that manage and treat stormwater runoff using a conditioned planting soil bed and planting materials to filter runoff stored within a shallow depression. The method combines physical filtering and adsorption with bio-geochemical processes to remove pollutants. The system consists of an inflow component, a pretreatment element, an overflow structure, a shallow ponding area (less than 9" deep), a surface organic layer of mulch, a planting soil bed, plant materials, and an underdrain system to convey treated runoff to a downstream facility.

An example of this credit is provided below.

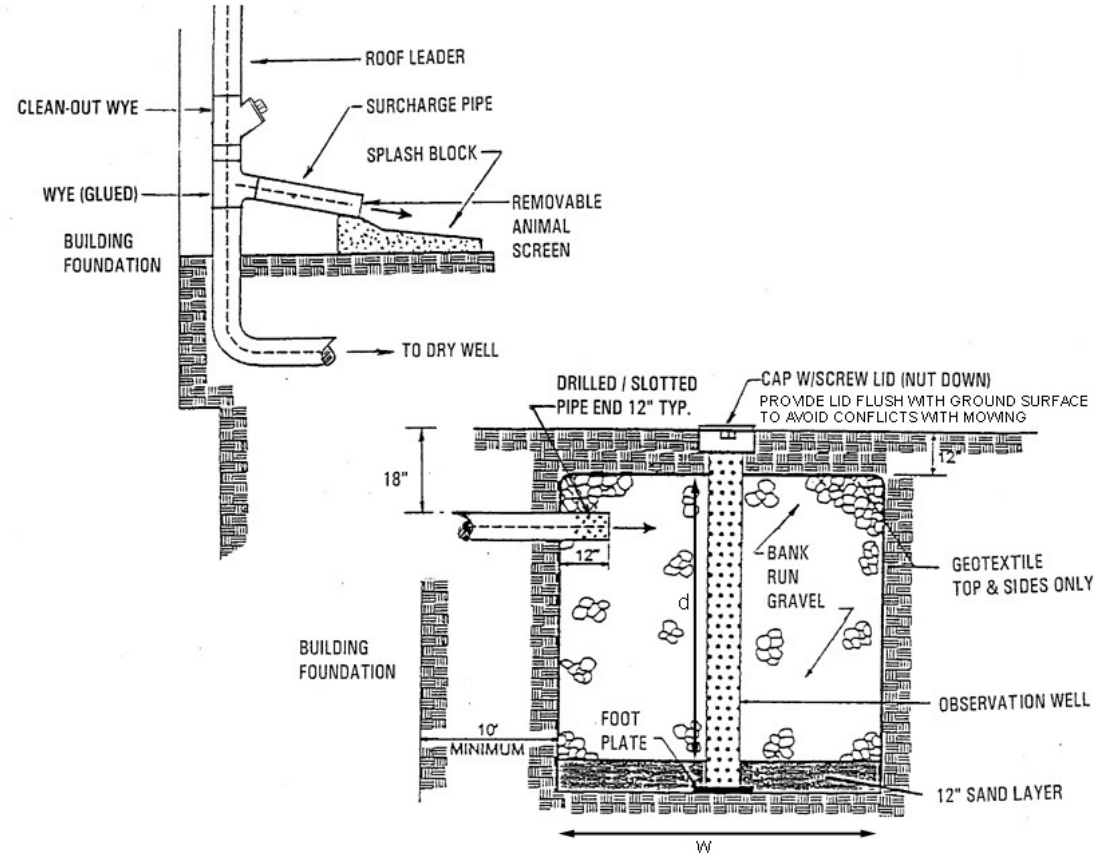


Figure B.1 Schematic of Dry Well (Source: adapted after Howard County, MD)

Rooftop Disconnection Credit Example Application

Given the following base data:
Site Data: 108 Single Family Residential Lots (~ ½ acre lots)
Site Area = 45.1 ac
Original Impervious Area = 12.0 ac;
Site Soils Types: 78% "C", 22% "D"
Composite Recharge Factor, F = 0.08
Original Re_v = 0.08 acre-feet; Re_a = 0.96 acres
Original water quality requirement = 1.0"/impervious acre = 1.0"(12.0 ac)/12 = 1.0 acre-foot
(site is located in a critical area)

Rooftop Credit (see Figure B.2)
42 houses disconnected
Average house area = 2,500 ft^2
Net impervious area reduction = (42)(2,500 ft^2) / (43,560 ft^2/ac) = 2.41 acres
New impervious area = 12.0 – 2.41 = 9.59 acres;

Required recharge (Re_a) is 0.96 acres and 2.41 acres were disconnected thereby meeting 100% of the recharge requirement.

New water quality volume = 1.0" (9.59)/12 = 0.80 acre-feet; or a 0.20 acre-foot reduction

Percent Reductions Using Rooftop Disconnection Credit:

- Re_v = 100%
- Water quality = (1.0 – 0.8) / 1.0 = 20.0%

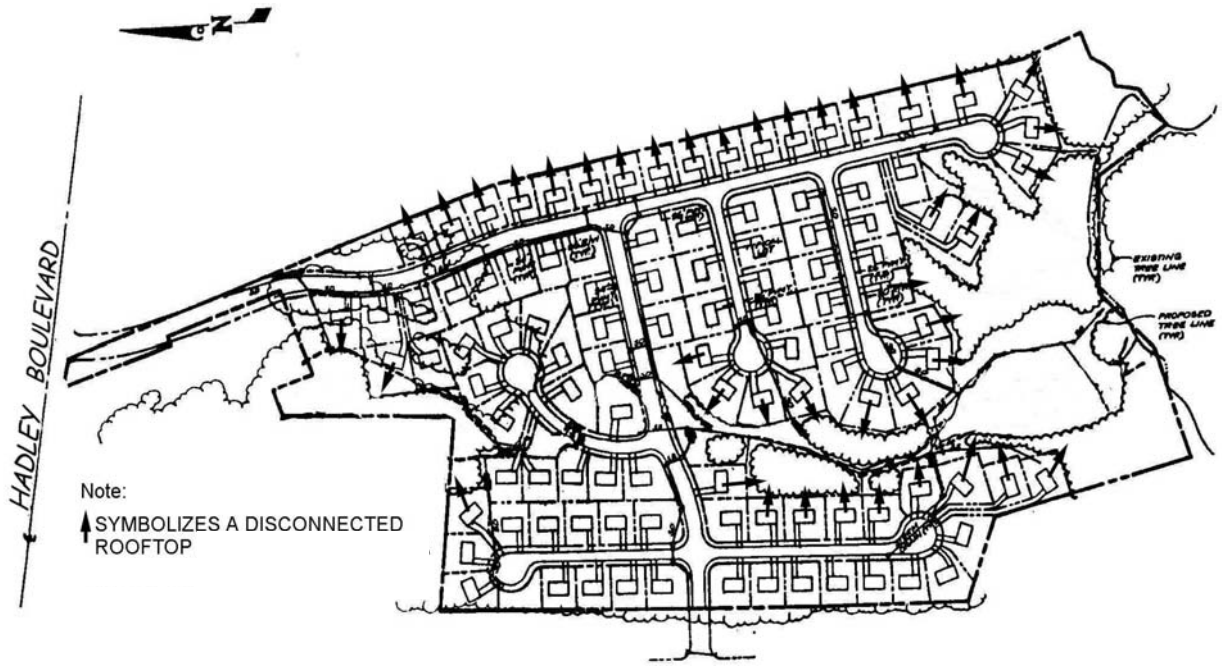


Figure B.2 Schematic of Rooftop Disconnection Credit

B.3 Credit No 2: Disconnection of Non-Rooftop Runoff Credit

Credit is given for practices that disconnect surface impervious cover runoff by directing it to pervious areas where it is either infiltrated into the soil or filtered (by overland flow). This credit can be obtained by grading the site to promote overland vegetative filtering.

These "disconnected" areas can be subtracted from the site impervious area when computing the water quality treatment volume. In addition, disconnected surface impervious cover can be used to meet the recharge requirement as a non-structural practice under the **Percent Area Method**.

Restrictions on the Credit

The credit is subject to the following restrictions:

- The maximum contributing impervious flow path length shall be 75 feet;
- Runoff cannot come from a designated hotspot land use;
- The length of the "disconnection" must be equal to or greater than the contributing length;
- The entire vegetative "disconnection" shall be on a slope less than or equal to 5.0%;
- The surface impervious area to any one discharge location cannot exceed 1,000 ft^2;
- Disconnections are encouraged on relatively permeable soils (HSGs A and B); therefore, no soil evaluation is required;
- In less permeable soils (HSGs C and D), the water table depth and permeability shall be evaluated by a professional engineer to determine if a spreading device such as a french drain, gravel trench or other temporary storage device is needed to compensate for poor infiltration capability; and
- For those areas draining directly to a buffer, only the non-rooftop disconnection credit or the stream buffer credit can be used, not both;

See Section B.8 for an example application of this credit draining to a filter strip.

B.4 Credit No. 3: Stream Buffer Credit

This credit is given when stormwater runoff is effectively treated by a stream buffer. Effective treatment constitutes capturing runoff from pervious and impervious areas adjacent to a stream buffer and treating runoff through the overland flow in a natural vegetative or forested buffer. The use of a filter strip is also recommended to treat overland flow in the green space of a development site (see Figure B.3). The credits include:

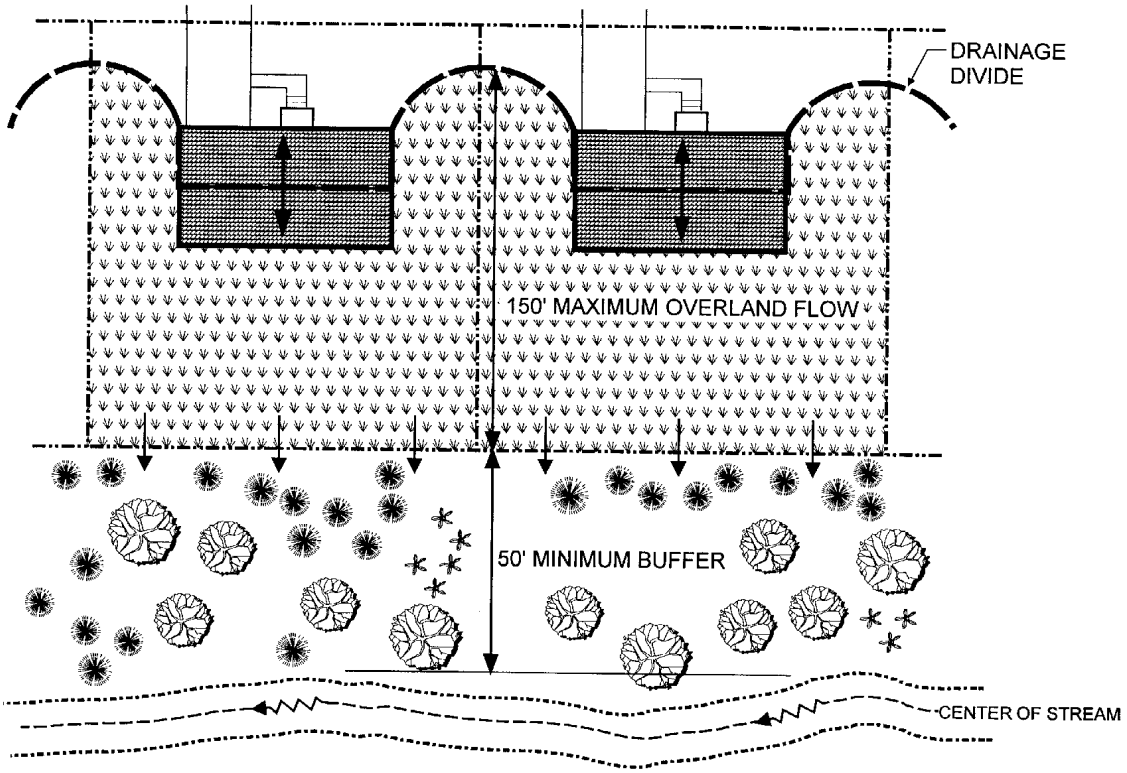
- The impervious area draining by sheet flow to a stream buffer is subtracted from the site's initial impervious area in the water quality calculation.
- The impervious area draining to stream buffer contributes to the recharge requirement, (Re_v), under the **Percent Area Method**.

Restrictions on the Credit

The credit is subject to the following conditions:

- The minimum stream buffer width (i.e., perpendicular to the stream flow path) shall be 50 feet as measured from the bank elevation of a stream or the boundary of a wetland;
- The maximum contributing path shall be 150 feet for pervious surfaces and 75 feet for impervious surfaces;
- The average contributing overland slope to and across the stream buffer shall be less than or equal to 5.0%;
- Runoff shall enter the stream buffer as sheet flow. A level spreading device shall be utilized where local site conditions prevent sheet flow from being maintained;
- The credit is <u>not</u> applicable if rooftop or non-rooftop disconnection is already provided (i.e., no double counting); and
- Stream buffers shall remain ungraded and uncompacted, and the over-story and under-story vegetation shall be maintained in a natural condition;

See Section B.8 for an example application of this credit.



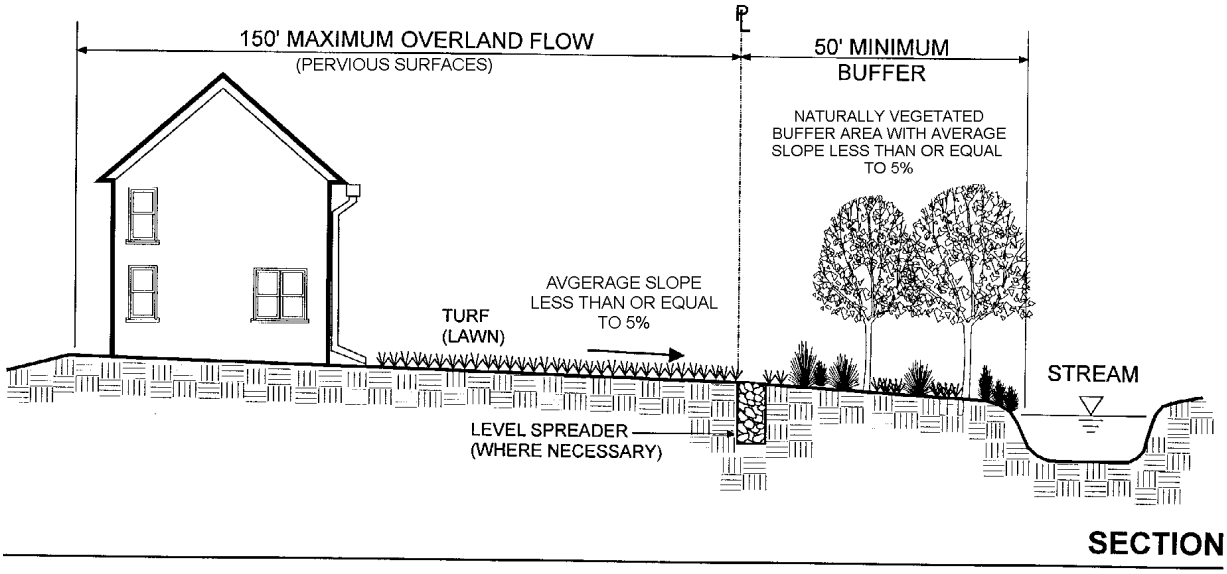


Figure B.3 Example of Stream Buffer Credit Option

B.5 Credit No. 4: Grass Channel Credit

Credit may be given when open grass channels are used to reduce the volume of runoff and pollutants during smaller storms (i.e., 1.0 inches and less).

Use of a grass channel will automatically meet the minimum recharge Re_v requirement (under the **Percent Area Method**) regardless of the geometry or slope. If designed according to the following design criteria, the grass channel will meet the water quality treatment requirements for certain kinds of residential development.

Note: Runoff curve numbers (CNs) for 2-year, 10-year, and 100-year control will not change.

Grass Channel Design Criteria

The credit is obtained if a grass channel meets the following criteria.

- Land use is moderate to low density residential (maximum density of 4 du/ac);
- The bottom width shall be 2 foot minimum and 6 foot maximum (if a larger channel is needed, a compound cross section may be used);
- The side slopes shall be 3H:1V or flatter;
- The channel slope shall be less than or equal to 4.0%; and
- The length of the grass channel shall be equal to the roadway length.

Grass Channel Credit Example Application

Base Data
Site Data: 108 Single Family Residential Lots (~ ½ acre lots)
Site Area = 45.1 ac
Original Impervious Area = 12.0 ac; or I = 12.0/45.1 = 26.6%
Site Soils Types: 78% "C", 22% "D"
Composite F = 0.08
Original Re_v = 0.08 acre-feet; Re_a = 0.96 acres
Original WQ_v = 1.0 acre-feet

Grass Channel Credit (see Figure B.4)
Entire site is open section road, but only 11.2 acres meet the water quality requirement design criteria for the grass channel credit (i.e., 3:1 sideslopes, 2 foot bottom width and slope less than or equal to 4%).

Required recharge (Re_a) is 0.96 acres and the full site is drained by grass channels, thereby meeting 100% of the recharge requirement.

New water quality Area = (45.1 – 11.2) = 33.9 acres, assume new impervious cover = 0.266(33.9 ac) = 9.0 acres.
New WQ_v = 1.0"(9.0)/12 = 0.75 acre-feet; or a 0.25 acre-foot reduction

Percent Reductions Using Grass Channel Credit:

- Re_v = 100%
- WQ_v = (1.0 – 0.75) / 1.0 = 25.0%

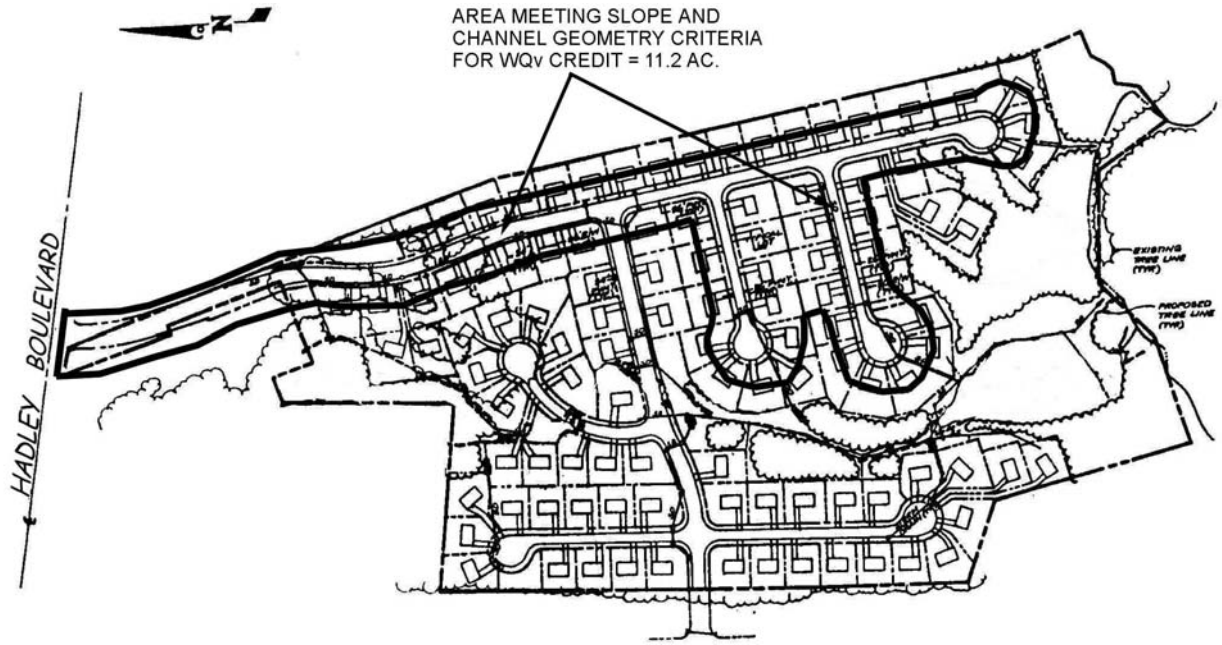


Figure B.4 Schematic of Grass Channel Credit

B.6 Credit No. 5: Environmentally Sensitive Development Credit

This credit is given when a group of environmental site design techniques are applied to lower density or rural residential development. The credit eliminates the need for structural practices to treat both the Re_v and water quality and can reduce required volumes for peak control of the 2-year, 10-year and 100-year storms.

Minimum Criteria for Credit

The Re_v and water quality requirements are completely met without the use of structural practices in certain low density (less than 1 dwelling unit per acre) residential developments when the following conditions are met:

- The total impervious cover footprint is less than 15 % of lot area;
- A minimum of 25% of the site is protected in natural conservation areas.
- Rooftop runoff is disconnected in accordance with the criteria outlined under Credit 1 (Section B.2);
- Grass channels are used to convey runoff versus curb and gutter for roads and/or driveways (with no specific constraints on water quality volume, velocity or minimum retention time); and
- Stream buffers are incorporated into the site design on both perennial and intermittent streams (where applicable).

The designer must still address applicable stormwater detention for all roadway and connected impervious surfaces (i.e, 2-year, 10-year, and 100-year control).

Environmentally Sensitive Rural Development Credit Example Application

Base Data
Site Data: a single family lot that is part of an 8 acre low density subdivision in a critical area
Lot Area = 2.5 ac
Conservation Area = 0.65 ac
Impervious Area = .35 ac = 14%
Site Soils Types: 100% "B"
F = 0.25
Original water quality volume = 1.0" (.35) (43,560/12) = 1,270.5 ft^3
Original Re_v = (2.5) (0.08) (.25) (43,560/12) = 182 ft^3

Environmentally Sensitive Rural Credit (see Figure B.5)
Required recharge is considered met by site design.
Required water quality volume is considered met by site design.
2-year, 10-year & 100-year control: No change in CN, t_c may be longer which would reduce storage requirements.

Percent Reductions Using Environmentally Sensitive Rural Credit:

- Re_v = 100%
- Water quality requirment = 100%

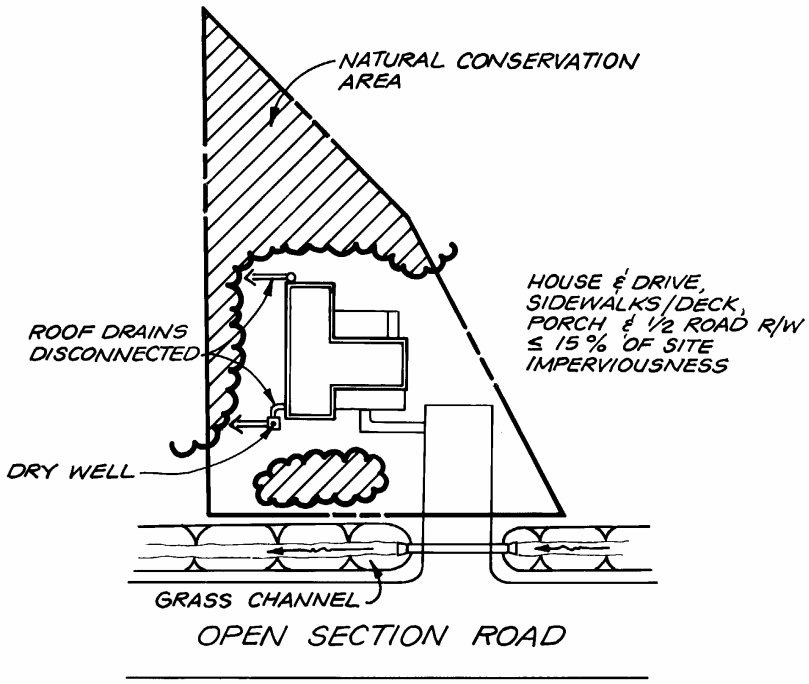


Figure B.5 Schematic of Environmentally Sensitive Rural Development Credit

B.7 Dealing with Multiple Credits

Site designers are encouraged to utilize as many credits as they can on a site. Greater reductions in stormwater storage volumes can be achieved when many credits are combined together (e.g. disconnecting rooftops and utilizing grass channel for drainage design). However, credits cannot be claimed twice for an identical area of the site (e.g. claiming credit for stream buffers and disconnecting rooftops over the same site area, draining to the same location).

B.8 Other Strategies to Reduce Impervious Cover

Site planning practices that reduce the creation of impervious area in new residential and commercial developments and therefore reduce the water quality requirements for the site should be encouraged whenever feasible[2]. Examples of progressive site design practices that minimize the creation of impervious cover include:

- Narrower residential road sections;
- Shorter road lengths;
- Smaller turnarounds and cul-de-sac radii;
- Permeable spill-over parking areas (these areas should be valued as 50% impervious, unless designed specifically for infiltration);
- Smaller parking demand ratios;
- Smaller parking stalls for a percentage of lots;
- Angled one way parking;
- Cluster subdivisions;
- Smaller front yard setbacks;
- Shared parking and driveways; and
- More creatively designed pedestrian networks.

Where these techniques are employed, it may be possible to reduce stormwater storage volumes. For example, since the water quality treatment volume is directly based on impervious cover, a reduction in impervious cover reduces required storage. For 2-year, 10-year, and 100-year management, the designer can compute curve numbers (CNs) based on the actual measured impervious area at a site using the following equation (adopted from TR-55, 1986):

$$(98)\ I + (CN)\ P = CN$$

where: I = percent impervious area at the site
P = percent pervious area at the site
CN = curve number for the appropriate pervious cover

[2] The reader is referred to the following two references for a more detailed presentation of better site design and low impact development: 1) Center for Watershed Protection. 1998. *Better Site Design A Handbook for Changing Development Rules in Your Community*. Ellicott City, MD; and 2) Prince George's County MD Dept. of Environmental Resources. 1999. *Low Impact Development Design Strategies: An Integrated Design Approach.* Largo, MD.

Figures B.6 and B.7 show an example of a retail site designed as a conventional development, and as a site planned using improved site design practices and techniques, respectively. Some of the noteworthy features of the innovative site plan include: preservation of some forested areas, establishment of a stream buffer, reduced parking ratios, compact and pervious overflow parking spaces, and use of vegetated stormwater practices such as filter strips and bioretention areas.

Though not all land use types and developments are amenable to every approach described here, there are more opportunities for flexibility and creativity in site design than many realize. Redevelopment sites also can utilize several of these practices and techniques in the redesign of an area.

The following example (using Figures B.6 and B.7) quantifies the water quality and recharge requirement reductions that can be realized by implementing several of these practices and design techniques.

Base Data (see Figure B.6)
Site Area = 9.3 ac
Original Impervious Area = 6.5 ac; or I = 6.5/9.3 = 69.9%
Site Soils Types: 50% "B", 50% "C," split evenly over the impervious area
Composite F = [0.25 (6.5/2) + 0.10 (6.5/2)]/6.5 = 0.18
Original Re_v = 0.18 (6.5)/12 = 0.10 acre-feet
Original Water Quality Requirement = 1.0"(6.5 ac)/12 = 0.54 acre-feet

Site Planning Strategies (see Figure B.7)
The revised site incorporates the following features:

- 1.8 acres preserved in a conservation easement.
- 0.46 acres of parking lot drain to a buffer with an overland flow path less than 75 feet (Credit No. 3: stream buffer credit).
- 0.28 acres of parking lot/loading area drain to a filter strip with an overland flow path less than 75 feet (Credit No. 2: disconnection of non-rooftop runoff credit).
- The total site impervious area was reduced from 6.3 acres to 5.8 acres by the site design revision; the new site I = 5.8/9.3 = 62.4%.

The new storage requirements for Re_v:

- New composite F = [0.25 (5.8 ac/2) + 0.10 (5.8 ac/2)]/5.8 = 0.18
- New Re_v (**Percent Volume Method**) = 0.18 (5.8 ac)/12 = 0.09 acre-feet
- New Re_a (**Percent Area Method**) = FAI = 0.18 (9.3 ac)(.624) = 1.04 acres
- Using the **Percent Area Method** and noting that 0.46 acres drain to the buffer and 0.28 acres drain to a filter strip, then Re_a = 1.04 ac – (0.46 ac + 0.28 ac) = 0.3 acres
- Therefore, the remaining Re_v = (0.3 ac/1.04 ac) (0.09 ac-ft) = 0.02 acre-feet

0.02 acre-feet must be managed by an approved "structural" practice.

The new storage requirement for water quality control is:

- New Impervious Area (to take credit for non-rooftop disconnection and buffer credits) = 5.8 ac – (0.28 ac + 0.46 ac) = 5.06 acres;
- New water quality requirement = 1.0"(5.06 ac)/12 = 0.42 acre-feet; or a 0.12 acre-foot reduction

Percent Reductions Using Site Planning Strategies:

- Re_v = (0.10 – 0.02) / 0.10 = 80.0%
- WQ_v = (0.54 – 0.42) / 0.54 = 22.0%

Also, with a 0.5-acre net reduction in site imperviousness, the CN for computing the 2-year, 10-year and 100-year control will be lower, thereby reducing the storage requirements for these storms by a modest amount.

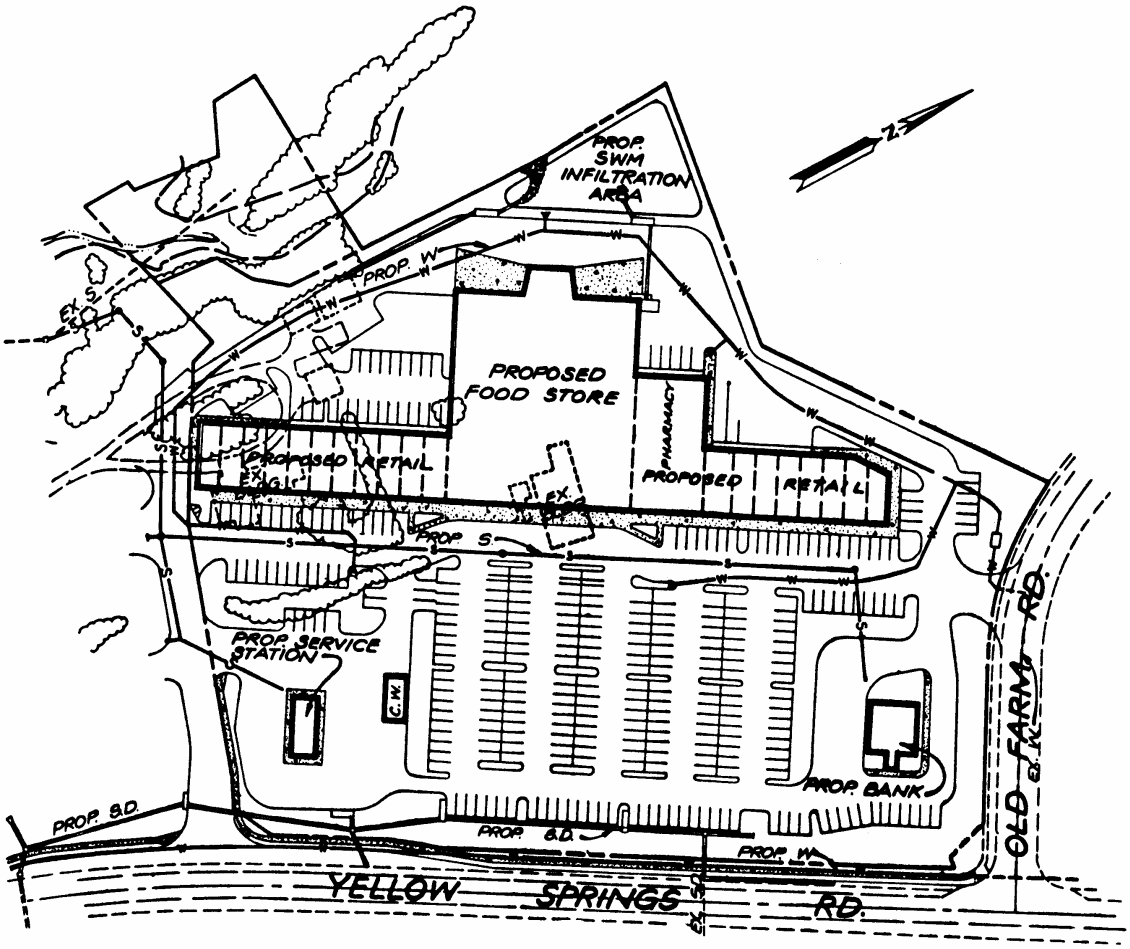


Figure B.6 Example of Conventional Retail Site Design

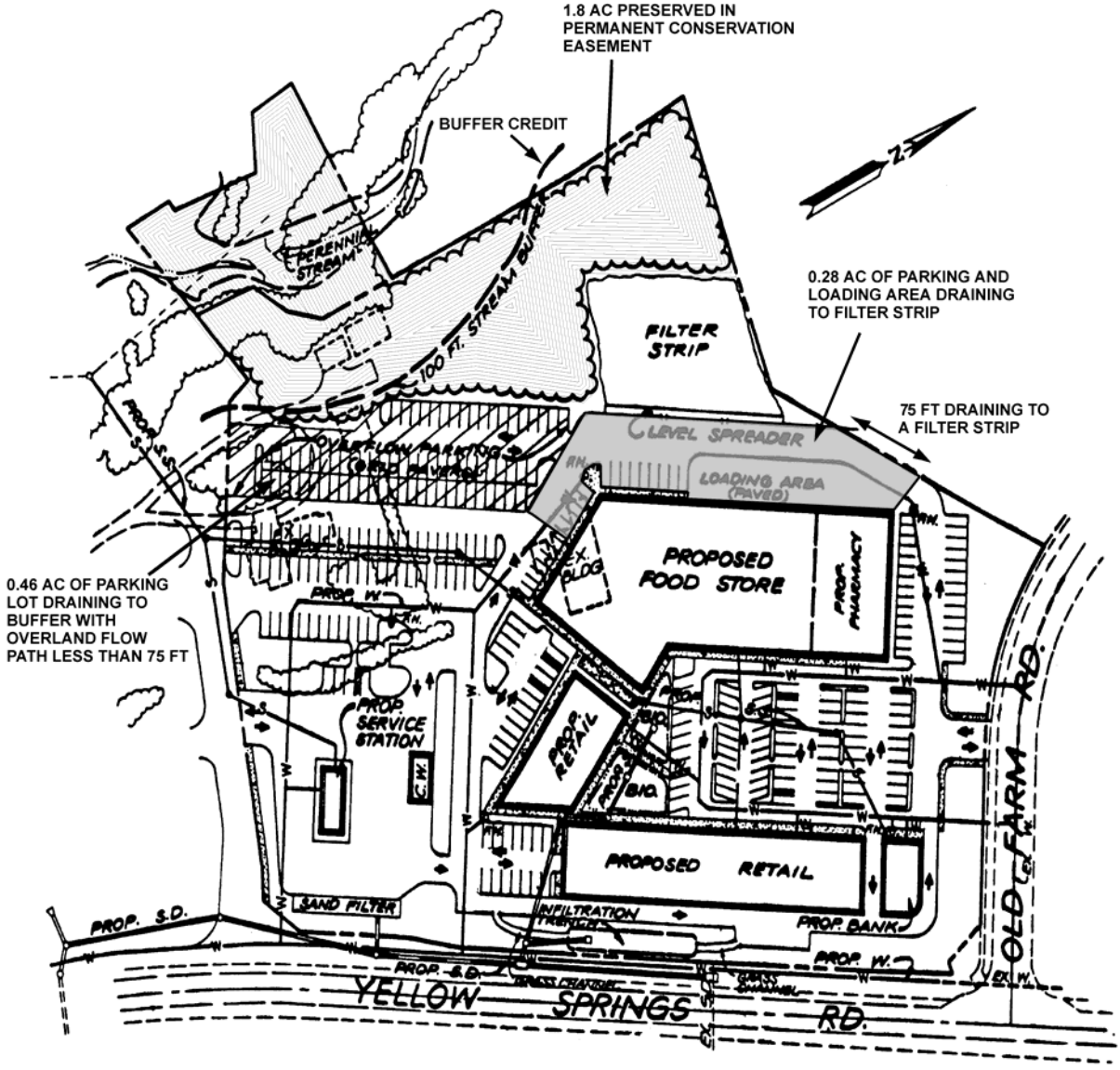


Figure B.7 Example of Improved Retail Site Design

APPENDIX C

Truro, MA
Parcels with Septic Systems on Recharge Boundary Line

Assessors Map/Lot Number	Address	Septic System Located on Plans? (check box if located)	Septic System Moved? (Yes/No)
2-3	643 SHORE RD		
19-1	143 SHORE RD		
22-10	7 SUNSET RD		
22-11	9 SUNSET RD		
22-22	14 HIGHLAND AVE		
22-24	12 HIGHLAND AVE		
22-25	10 HIGHLAND AVE		
22-26	1 MATTA RD		
22-27	6 HIGHLAND AVE		
22-38	15 HIGHLAND AVE		
32-2	17 HIGHLAND AVE		
32-28	535 RT 6		
32-3	19 HIGHLAND AVE		
32-4	21 HIGHLAND AVE		
32-8	16 ARROWHEAD RD		
32-9	482 RT 6		
33-32	52 HD OF MEADOW RD		
36-101	7 POND VILLAGE HGTS RD		
36-132	32 SHORE RD		
36-147	33 SHORE RD		
36-151	31 SHORE RD		
36-152	29 SHORE RD		
36-155	394 RT 6		
36-156	27 SHORE RD		
36-171	32 HIGHLAND RD		
36-179	30 HIGHLAND RD		
36-184	37 HIGHLAND RD		
36-215	7 AMANDA LN		
36-220	3 LAMBROU LN		
36-221	2 LAMBROU LN		
36-30	80 SHORE RD		
36-39	25 POND RD		
36-41	21 POND RD		
36-42	23 POND RD		
36-47	33 POND RD		
36-49	27 POND RD		
36-51	35 POND RD		
36-53	37 POND RD		
36-75	7 STANDISH WAY		

36-96	2 POND VILLAGE HGTS RD		
36-98	5 POND VILLAGE HGTS RD		
38-4	47 POND RD		
39-113	24 TURNSTONE RD		
39-12	8 BAY VIEW RD		
39-125	19 NOONS DR		
39-13	5 BAY VIEW DR		
39-137	11 SHORE RD		
39-150	12 SHORE RD		
39-151	10 SHORE RD		
39-16	7 BAY VIEW RD		
39-163	364 RT 6		
39-166	1 NOONS HGTS RD		
39-174	13 PARKER DR		
39-175	1 FISHERMANS RD		
39-190	1 FRIENDSHIP WAY		
39-192	5 FRIENDSHIP WAY		
39-194	8 SO HIGHLAND RD		
39-195	6 SO HIGHLAND RD		
39-20	8 BAY VIEW PATH		
39-204	12 PARKER DR		
39-244	8 KESTREL LN		
39-245	8 FALCON LN		
39-246	37 CORMORANT RD		
39-249	34 CORMORANT RD		
39-250	32 CORMORANT RD		
39-251	15 CORMORANT RD		
39-256	16 CORMORANT RD		
39-257	18 CORMORANT RD		
39-258	20 CORMORANT RD		
39-277	8 KYLE WAY		
39-278	6 KYLE WAY		
39-279	4 KYLE WAY		
39-280	2 ALDRICH RD		
39-319	7 RUSSELL WAY		
39-79	11 FRANCIS RD		
39-80	13 FRANCIS RD		
39-81	2 SAGE RIDGE RD		
39-84	8 HUTCHINGS LN		
39-9	10 BAY VIEW DR		
40-122	11 NO UNION FIELD RD		
40-138	16 ANDREW WAY		
40-139	18 ANDREW WAY		
40-144	15 ANDREW WAY		
40-165	7 LEEWARD PASSAGE		
40-166	9 LEEWARD PASSAGE		
40-20	13 SO HIGHLAND RD		

40-32	4 NO UNION FIELD RD		
40-34	2 ALDEN LN		
40-45	6 NO UNION FIELD RD		
40-48	1 ALDENS END		
40-58	5 NO UNION FIELD RD		
40-62	7 NO UNION FIELD RD		
40-66	9 NO UNION FIELD RD		
42-14	32 NOONS DR		
42-228	118 CASTLE RD		
42-260	39 CORMORANT RD		
42-262	1 BAYSIDE HILLS RD		
42-296	329 RT 6		
42-33	23 NOONS DR		
42-34	21 NOONS DR		
42-38	15 PARKER DR		
42-73	7 FISHERMANS RD		
42-74	5 FISHERMANS RD		
42-9	14 PARKER DR		
42-95	332 RT 6		
43-100	9 WHITMANVILLE RD		
43-115	14 SYLVAN LN		
43-122	31 LONGNOOK RD		
43-124	21 LONGNOOK RD		
43-126	25 LONGNOOK RD		
43-128	16 HIGGINS HOLLOW RD		
43-129	2 HIGGINS HOLLOW RD		
43-130	5 SYLVAN LN		
43-136	3 SYLVAN LN		
43-137	15 WHITMANVILLE RD		
43-150	23 OVERLOOK DR		
43-159	5 OVERLOOK DR		
43-167	6 MORRIS AVE		
43-168	8 MORRIS AVE		
43-170	13 MORRIS AVE		
43-171	15 MORRIS AVE		
43-174	16 MORRIS AVE		
43-180	1 SHORT LOTS LN		
43-182	26 HIGGINS HOLLOW RD		
43-189	2 ANDREW WAY		
43-192	5 ANDREW WAY		
43-193	1 LEEWARD PASSAGE		
43-199	11 SANDY LN		
43-205	116 CASTLE RD		
43-209	26 LONGNOOK RD		
43-59	13 WHITMANVILLE RD		
43-76	20 WHITMANVILLE RD		
43-83	8 SYLVAN LN		

43-84	7 TWINING RD		
43-85	10 SYLVAN LN		
43-89	5 SYLVIAS WAY		
43-91	26 SYLVAN LN		
43-92	16 SYLVAN LN		
43-93	18 SYLVAN LN		
43-98	29 SYLVAN LN		
44-11	80 LONGNOOK RD		
45-116	45 CORN HILL RD		
45-129	12 FIRST LIGHT LN		
45-131	23 PERRY RD		
45-132	15 PERRY RD		
45-133	18 PERRY RD		
45-135	11 HARDINGS WAY		
45-42	53 CORN HILL RD		
45-52	42 CORN HILL RD		
45-73	4 TOMS HILL PATH		
45-79	34 CORN HILL RD		
46-141	15 LONGNOOK RD		
46-15	250 RT 6		
46-153	10 ATWOOD RD		
46-154	12 ATWOOD RD		
46-156	249 RT 6		
46-157	6 ATWOOD RD		
46-160	11 ATWOOD RD		
46-161	9 ATWOOD RD		
46-172	11 HIGGINS WAY		
46-173	3 HIGGINS WAY		
46-180	10 HIGGINS WAY		
46-181	8 HIGGINS WAY		
46-222	14 BAYBERRY LN		
46-223	12 BAYBERRY LN		
46-224	10 BAYBERRY LN		
46-24	7 JOSEPHS RD		
46-25	5 JOSEPHS RD		
46-287	31 TRURO CENTER RD		
46-288	29 TRURO CENTER RD		
46-289	1 HIGGINS HOLLOW RD		
46-290	19 HIGGINS HOLLOW RD		
46-296	5 STONEY HILL RD		
46-30	18 JOSEPHS RD		
46-306	1 TOWN HALL RD		
46-31	2 ERICS RD		
46-32	14 JOSEPHS RD		
46-325	7 STONEY HILL RD		
46-33	9 KINNIKINNICK RD		
46-338	35 TRURO CENTER RD		

46-351	4 TOWN HALL RD		
46-357	9 GLACIER DR		
46-358	11 GLACIER DR		
46-366	1 LEFT HANDED RD		
46-368	6 KNIGHTS WAY		
46-46	15 ERLIMBA RD		
46-50	75 CASTLE RD		
46-51	73 CASTLE RD		
46-52	5 LITTLE PAMET WAY		
46-60	6 CORN HILL RD		
47-10	68 OLD KINGS HWY		
47-120	54 OLD KINGS HWY		
47-126	18 OLD KINGS HWY		
47-127	74 NO PAMET RD		
47-137	97 NO PAMET RD		
47-34	4 UNION FIELD END		
47-4	3 FOURTH OF JULY RD		
47-46	29 UNION FIELD RD		
47-5	1 FOURTH OF JULY RD		
47-8	2 FOURTH OF JULY RD		
48-14	13 LONG DUNE LN		
48-2	101 NO PAMET RD		
48-4	118 NO PAMET RD		
49-5	15 TOMS HILL PATH		
49-7	35 TOMS HILL RD		
50-10	73 DEPOT RD		
50-104	18 OLD COUNTY RD		
50-11	71 DEPOT RD		
50-12	63 DEPOT RD		
50-13	8 HIGH PAMET RD		
50-135	23 TRURO CENTER RD		
50-139	17 TRURO CENTER RD		
50-14	6 HIGH PAMET RD		
50-149	13 TRURO CENTER RD		
50-150	15 TRURO CENTER RD		
50-155	14 TRURO CENTER RD		
50-18	75 DEPOT RD		
50-184	2 HATCH RD		
50-2	52 CASTLE RD		
50-233	3 CARRS LN		
50-234	4 OLD PAMET RD		
50-248	10 SECOR LN		
50-249	12 SECOR LN		
50-257	46 CASTLE RD		
50-289	3 DEPOT RD		
50-37	7 YACHT CLUB RD		
50-74	6 CASTLE HILL LN		

50-76	3 BRIDGE LN		
50-77	4 BRIDGE LN		
50-83	6 BRIDGE LN		
50-87	8 SECOR LN		
51-18	1 DEPOT RD		
51-31	8 HATCH RD		
51-77	14 HATCH RD		
52-10	104 SO PAMET RD		
52-8	102 SO PAMET RD		
52-9	100 SO PAMET RD		
53-11	8 GREAT HILLS RD		
53-17	6 GREAT HILLS RD		
53-20	5 GREAT HILLS RD		
53-27	43 FISHER RD		
53-3	1 GREAT HILLS LN		
53-33	3 FISHER PATH		
53-36	1 FISHER PATH		
53-39	2 FISHER PATH		
53-46	28 FISHER RD		
53-47	3 BENSON RD		
53-51	7 BENSON RD		
53-54	2 DAISY LN		
53-62	7 DAISY LN		
53-79	30 FISHER RD		
53-99	32 FISHER RD		
54-1	20 MILL POND RD		
54-100	2 SKYLAR LN		
54-28	8 FISHER RD		
54-33	3 ROSE HILL LN		
54-35	3 STEPHENS WAY		
54-40	8 STEPHENS WAY		
54-41	67 OLD COUNTY RD		
54-47	10 STEPHENS WAY		
54-76	8 ATWOOD LN		
54-77	4 STICK BRIDGE RD		
54-78	28 OLD COUNTY RD		
54-82	20 HOLSBERY RD		
54-88	14 FISHER RD		
54-91	54 OLD COUNTY RD		
55-17	5 PRINCE VALLEY RD		
55-23	4 PRINCE VALLEY RD		
55-25	54 COLLINS RD		
55-27	104 RT 6		
56-23	50 COLLINS RD		
58-42	10 SPYGLASS HILL RD		
58-48	9 ROLLING HILLS RD		
58-49	7 STURDY WAY		

58-53	7 ROLLING HILLS RD		
58-55	17 ROLLING HILLS RD		
58-56	4 ROLLING HILLS RD		
58-67	8 SPYGLASS HILL RD		
59-33	5 OLD COUNTY LN		
59-34	6 SANDPIPER RD		
59-35	3 SANDPIPER RD		
59-38	4 MARC LN		
59-39	13 QUANSET RD		
59-99	5 SPYGLASS HILL RD		
61-1	48 COLLINS RD		
61-2	110 SLOUGH POND RD		
62-2	8 HORSELEECH RD		
62-6	7 HORSELEECH RD		
63-1	29 RYDER BEACH RD		
63-14	2 RYDER HOLLOW RD		
63-2	33 RYDER BEACH RD		
63-3	31 RYDER BEACH RD		
63-8	35 RYDER BEACH RD		
65-15	8 AUNT MARYS RD		

REPORT 1 OF 2 FOR PHASE 1 COMPREHENSIVE WASTEWATER MANAGEMENT PLAN

See corresponding Report showing breakdown of total land area (acreage) below
This Report shows number of bedrooms (where information was extractable) for each parcel

Map	Pcl	Ext	Property Location		Class	Bldg #	# Bdrms	Total Acr.
1	1	0	701	SHORE RD	1320			0.010
1	2	0	695	SHORE RD	3010	1	0	1.310
1	3	0	679	SHORE RD	1300			0.860
1	5	0	706	SHORE RD	3450	1	0	0.000
1	5	0	706	SHORE RD	3450	2	0	0.000
1	5	0	706	SHORE RD	3450	3	0	0.000
1	5	0	706	SHORE RD	3450	4	0	0.000
1	6	0	696	SHORE RD	3010	1	0	1.760
1	6	0	696	SHORE RD	3010	2	0	1.760
1	6	0	696	SHORE RD	3010	3	0	1.760
1	6	0	696	SHORE RD	3010	4	0	1.760
1	6	0	696	SHORE RD	3010	5	0	1.760
2	1	655	655	SHORE RD	1020	1	2	0.000
2	1	657	655	SHORE RD	1020	1	3	0.000
2	2	0	647	SHORE RD	1300			0.180
2	3	0	643	SHORE RD	1010	1	4	0.310
2	4	0	635	SHORE RD	1010	1	3	0.220
2	5	0	674	SHORE RD	3450	1	0	0.000
2	5	0	674	SHORE RD	3450	2	0	0.000
2	5	0	674	SHORE RD	3450	3	2	0.000
2	5	0	674	SHORE RD	3450	4	2	0.000
2	5	0	674	SHORE RD	3450	5	2	0.000
2	5	0	674	SHORE RD	3450	6	2	0.000
2	5	0	674	SHORE RD	3450	7	2	0.000
2	5	0	674	SHORE RD	3450	8	2	0.000
2	5	0	674	SHORE RD	3450	9	2	0.000
2	5	0	674	SHORE RD	3450	10	2	0.000
2	5	0	674	SHORE RD	3450	11	2	0.000
2	5	0	674	SHORE RD	3450	12	2	0.000
2	5	0	674	SHORE RD	3450	13	2	0.000
2	5	0	674	SHORE RD	3450	14	2	0.000
2	5	0	674	SHORE RD	3450	15	2	0.000
2	5	0	674	SHORE RD	3450	16	2	0.000
2	5	0	674	SHORE RD	3450	17	2	0.000
2	5	0	674	SHORE RD	3450	18	2	0.000
2	5	0	674	SHORE RD	3450	19	2	0.000
2	5	0	674	SHORE RD	3450	20	2	0.000
2	5	0	674	SHORE RD	3450	21	2	0.000
2	5	0	674	SHORE RD	3450	22	2	0.000
2	5	0	674	SHORE RD	3450	23	2	0.000
2	5	0	674	SHORE RD	3450	24	2	0.000
2	5	0	674	SHORE RD	3450	25	2	0.000
2	5	0	674	SHORE RD	3450	26	2	0.000
2	5	0	674	SHORE RD	3450	27	2	0.000
2	5	0	674	SHORE RD	3450	28	2	0.000
2	6	1	660	SHORE RD	1020	1	2	0.000

	2	6	2	660	SHORE RD	1020	1	2	0.000
	2	6	3	660	SHORE RD	1020	1	2	0.000
	2	6	4	660	SHORE RD	1020	1	2	0.000
	2	6	5	660	SHORE RD	1020	1	2	0.000
	2	7	1	658	SHORE RD	1020	1	2	0.000
	2	7	2	658	SHORE RD	1020	1	2	0.000
	2	7	3	658	SHORE RD	1020	1	2	0.000
	2	7	4	658	SHORE RD	1020	1	2	0.000
	2	7	5	658	SHORE RD	1020	1	2	0.000
	2	7	6	658	SHORE RD	1020	1	2	0.000
	2	7	7	658	SHORE RD	1020	1	2	0.000
	2	7	8	658	SHORE RD	1020	1	2	0.000
	2	7	9	658	SHORE RD	1020	1	2	0.000
	2	7	10	658	SHORE RD	1020	1	2	0.000
	2	8	0	654	SHORE RD	3010	1	0	2.130
	2	8	0	654	SHORE RD	3010	2	0	2.130
	2	8	0	654	SHORE RD	3010	3	0	2.130
	2	9	1	648	SHORE RD	1020	1	2	0.000
	2	9	2	648	SHORE RD	1020	1	1	0.000
	2	9	3	648	SHORE RD	1020	1	1	0.000
	2	9	4	648	SHORE RD	1020	1	2	0.000
	2	9	5	648	SHORE RD	1020	1	2	0.000
	2	9	6	648	SHORE RD	1020	1	2	0.000
	2	9	7	648	SHORE RD	1020	1	1	0.000
	2	9	8	648	SHORE RD	1020	1	2	0.000
	2	9	9	648	SHORE RD	1020	1	1	0.000
	2	10	1	642	SHORE RD	1020	1	1	0.000
	2	10	2	642	SHORE RD	1020	1	1	0.000
	2	10	3	642	SHORE RD	1020	1	1	0.000
	2	10	4	642	SHORE RD	1020	1	1	0.000
	2	10	5	642	SHORE RD	1020	1	3	0.000
	2	10	6	642	SHORE RD	1020	1	1	0.000
	2	10	7	642	SHORE RD	1020	1	1	0.000
	2	10	8	642	SHORE RD	1020	1	2	0.000
	2	10	9	642	SHORE RD	1020	1	2	0.000
	2	10	10	642	SHORE RD	1020	1	2	0.000
	2	10	11	642	SHORE RD	1020	1	2	0.000
	2	10	12	642	SHORE RD	1020	1	2	0.000
	2	11	0	640	SHORE RD	3450	1	2	0.000
	2	11	0	640	SHORE RD	3450	2	2	0.000
	2	11	0	640	SHORE RD	3450	3	1	0.000
	2	11	0	640	SHORE RD	3450	4	1	0.000
	2	11	0	640	SHORE RD	3450	5	1	0.000
	2	11	0	640	SHORE RD	3450	6	2	0.000
	2	11	0	640	SHORE RD	3450	7	2	0.000
	2	11	0	640	SHORE RD	3450	8	2	0.000
	2	11	0	640	SHORE RD	3450	9	1	0.000
	2	11	0	640	SHORE RD	3450	10	2	0.000
	2	12	1	670	SHORE RD	1020	1	2	0.000
	2	12	2	670	SHORE RD	1020	1	2	0.000
	2	12	3	670	SHORE RD	1020	1	2	0.000
	2	12	4	670	SHORE RD	1020	1	2	0.000

	2	12	5	670		SHORE RD	1020	1	2	0.000	
	2	12	6	670		SHORE RD	1020	1	2	0.000	
	2	12	7	670		SHORE RD	1020	1	6	0.000	
	2	12	8	670		SHORE RD	1020	1	2	0.000	
	2	12	9	670		SHORE RD	1020	1	2	0.000	
	2	13	0	676		SHORE RD	3010	1	2	1.050	
	2	13	0	676		SHORE RD	3010	2	2	1.050	
	2	13	0	676		SHORE RD	3010	3	2	1.050	
	2	13	0	676		SHORE RD	3010	4	0	1.050	
	2	13	0	676		SHORE RD	3010	5	2	1.050	
	2	13	0	676		SHORE RD	3010	6	2	1.050	
	2	13	0	676		SHORE RD	3010	7	3	1.050	
	3	1	0	631		SHORE RD	1060			0.170	
	3	2	0	627		SHORE RD	0130	1	3	0.160	
	3	2	0	627		SHORE RD	0130	2	1	0.160	
	3	3	0	617		SHORE RD	1010	1	2	0.590	
	3	4	0	607		SHORE RD	1300			0.570	
	3	7	0	603		SHORE RD	1010	1	3	0.160	
	3	8	0	599		SHORE RD	1010	1	3	0.240	
	3	9	1	630		SHORE RD	1020	1	2	0.000	
	3	9	2	630		SHORE RD	1020	1	2	0.000	
	3	9	3	630		SHORE RD	1020	1	2	0.000	
	3	9	4	630		SHORE RD	1020	1	2	0.000	
	3	9	5	630		SHORE RD	1020	1	2	0.000	
	3	9	6	630		SHORE RD	1020	1	2	0.000	
	3	9	7	630		SHORE RD	1020	1	2	0.000	
	3	9	8	630		SHORE RD	1020	1	2	0.000	
	3	9	9	630		SHORE RD	1020	1	2	0.000	
	3	9	10	630		SHORE RD	1020	1	2	0.000	
	5	1	0	595		SHORE RD	1010	1	2	0.160	
	5	2	0	587		SHORE RD	1010	1	3	0.450	
	5	3	0	583		SHORE RD	1300			0.150	
	5	4	0	579		SHORE RD	1300			0.140	
	5	5	0	577		SHORE RD	1320			0.070	
	5	6	0	575		SHORE RD	1320			0.070	
	5	7	0	573		SHORE RD	1320			0.070	
	5	8	0	571		SHORE RD	1060			0.070	
	5	9	0	569		SHORE RD	1320			0.100	
	5	10	0	567		SHORE RD	1320			0.100	
	5	11	0	563		SHORE RD	1050	1	4	0.200	
	5	12	0	559		SHORE RD	1010	1	2	0.220	
	5	13	0	618		SHORE RD	0310	1	0	2.430	
	5	13	0	618		SHORE RD	0310	2	0	2.430	
	5	13	0	618		SHORE RD	0310	3	2	2.430	
	5	13	0	618		SHORE RD	0310	4	2	2.430	
	5	13	0	618		SHORE RD	0310	5	2	2.430	
	5	13	0	618		SHORE RD	0310	6	2	2.430	
	5	13	0	618		SHORE RD	0310	7	2	2.430	
	5	13	0	618		SHORE RD	0310	8	2	2.430	
	5	13	0	618		SHORE RD	0310	9	2	2.430	
	5	14	0	614		SHORE RD	1010	1	3	1.020	
	5	15	0	608		SHORE RD	3010	1	3	1.500	

	5	15	0	608		SHORE RD	3010	2	2	1.500
	5	15	0	608		SHORE RD	3010	3	2	1.500
	5	16	0	606		SHORE RD	1010	1	4	1.010
	5	17	1	596		SHORE RD	1020	1	2	0.000
	5	17	2	596		SHORE RD	1020	1	2	0.000
	5	17	3	596		SHORE RD	1020	1	2	0.000
	5	17	4	596		SHORE RD	1020	1	2	0.000
	5	17	A	596		SHORE RD	1020	1	1	0.000
	5	17	B	596		SHORE RD	1020	1	1	0.000
	5	17	C	596		SHORE RD	1020	1	2	0.000
	5	17	D	596		SHORE RD	1020	1	2	0.000
	5	17	E	596		SHORE RD	1020	1	2	0.000
	5	17	F	596		SHORE RD	1020	1	2	0.000
	5	17	G	596		SHORE RD	1020	1	2	0.000
	5	17	H	596		SHORE RD	1020	1	2	0.000
	5	17	I	596		SHORE RD	1020	1	1	0.000
	5	17	J	596		SHORE RD	1020	1	3	0.000
	5	18	0	592		SHORE RD	1090	1	2	0.620
	5	18	0	592		SHORE RD	1090	2	2	0.620
	5	19	0	590		SHORE RD	1090	1	3	0.680
	5	19	0	590		SHORE RD	1090	2	2	0.680
	5	20	0	588		SHORE RD	1010	1	1	0.320
	5	21	0	586		SHORE RD	1010	1	4	0.260
	5	22	0	584		SHORE RD	1010	1	3	0.300
	5	23	0	582		SHORE RD	1040	1	5	0.350
	5	24	0	580		SHORE RD	1010	1	4	0.450
	5	25	0	578		SHORE RD	1010	1	1	0.510
	5	26	0	576		SHORE RD	1010	1	3	0.320
	5	27	0	574		SHORE RD	1010	1	3	0.320
	5	28	0	570		SHORE RD	3010	1	0	0.900
	5	29	1	566		SHORE RD	1020	1	2	0.000
	5	29	2	566		SHORE RD	1020	1	2	0.000
	5	29	3	566		SHORE RD	1020	1	1	0.000
	5	29	4	566		SHORE RD	1020	1	1	0.000
	5	29	5	566		SHORE RD	1020	1	1	0.000
	5	29	6	566		SHORE RD	1020	1	2	0.000
	5	29	7	566		SHORE RD	1020	1	2	0.000
	5	29	8	566		SHORE RD	1020	1	2	0.000
	5	29	9	566		SHORE RD	1020	1	2	0.000
	5	29	10	566		SHORE RD	1020	1	2	0.000
	5	30	0	572		SHORE RD	1010	1	1	0.290
	6	1	0	553		SHORE RD	1010	1	3	0.240
	6	2	0	541		SHORE RD	1010	1	3	0.620
	6	3	0	539		SHORE RD	1010	1	1	0.140
	6	4	0	535		SHORE RD	1040	1	8	0.410
	6	5	1	525		SHORE RD	1020	1	2	0.000
	6	5	2	525		SHORE RD	1020	1	2	0.000
	6	5	3	525		SHORE RD	1020	1	1	0.000
	6	5	4	525		SHORE RD	1020	1	1	0.000
	6	5	5	525		SHORE RD	1020	1	1	0.000
	6	5	6	525		SHORE RD	1020	1	2	0.000
	6	5	7	525		SHORE RD	1020	1	3	0.000

	6	6	0	556		SHORE RD	3010	1	0	1.407	
	6	6	0	556		SHORE RD	3010	2	0	1.407	
	7	1	1	497		SHORE RD	1020	1	2	0.000	
	7	1	2	497		SHORE RD	1020	1	2	0.000	
	7	1	3	497		SHORE RD	1020	1	2	0.000	
	7	1	4	497		SHORE RD	1020	1	2	0.000	
	7	1	5	497		SHORE RD	1020	1	2	0.000	
	7	1	6	497		SHORE RD	1020	1	2	0.000	
	7	1	7	497		SHORE RD	1020	1	2	0.000	
	7	1	8	497		SHORE RD	1020	1	0	0.000	
	7	2	0	503		SHORE RD	3010	1	2	0.330	
	7	2	0	503		SHORE RD	3010	2	2	0.330	
	7	2	0	503		SHORE RD	3010	3	1	0.330	
	7	2	0	503		SHORE RD	3010	4	1	0.330	
	7	2	0	503		SHORE RD	3010	5	1	0.330	
	7	2	0	503		SHORE RD	3010	6	1	0.330	
	7	2	0	503		SHORE RD	3010	7	1	0.330	
	7	2	0	503		SHORE RD	3010	8	1	0.330	
	7	2	0	503		SHORE RD	3010	9	1	0.330	
	7	2	0	503		SHORE RD	3010	10	1	0.330	
	7	2	0	503		SHORE RD	3010	11	3	0.330	
	7	4	0	491		SHORE RD	1060			0.460	
	7	5	1	544		SHORE RD	1020	1	2	0.000	
	7	5	2	544		SHORE RD	1020	1	2	0.000	
	7	5	3	544		SHORE RD	1020	1	2	0.000	
	7	5	4	544		SHORE RD	1020	1	2	0.000	
	7	5	5	544		SHORE RD	1020	1	2	0.000	
	7	5	6	544		SHORE RD	1020	1	2	0.000	
	7	5	7	544		SHORE RD	1020	1	2	0.000	
	7	5	8	544		SHORE RD	1020	1	2	0.000	
	7	5	9	544		SHORE RD	1020	1	1	0.000	
	7	5	10	544		SHORE RD	1020	1	1	0.000	
	7	6	0	542		SHORE RD	1050	1	5	0.200	
	7	7	1	538		SHORE RD	1020	1	3	0.000	
	7	7	2	538		SHORE RD	1020	1	2	0.000	
	7	7	3	538		SHORE RD	1020	1	2	0.000	
	7	7	4	538		SHORE RD	1020	1	1	0.000	
	7	7	5	538		SHORE RD	1020	1	2	0.000	
	7	7	6	538		SHORE RD	1020	1	1	0.000	
	7	8	0	522		SHORE RD	3010	1	3	1.970	
	7	8	0	522		SHORE RD	3010	2	1	1.970	
	7	8	0	522		SHORE RD	3010	3	1	1.970	
	7	8	0	522		SHORE RD	3010	4	1	1.970	
	7	8	0	522		SHORE RD	3010	5	1	1.970	
	7	8	0	522		SHORE RD	3010	6	1	1.970	
	7	8	0	522		SHORE RD	3010	7	1	1.970	
	7	8	0	522		SHORE RD	3010	8	1	1.970	
	7	8	0	522		SHORE RD	3010	9	1	1.970	
	7	8	0	522		SHORE RD	3010	10	1	1.970	
	7	8	0	522		SHORE RD	3010	11	0	1.970	
	7	8	0	522		SHORE RD	3010	12	7	1.970	
	7	8	0	522		SHORE RD	3010	13	4	1.970	

	7	8	0	522		SHORE RD	3010	14	3	1.970	
	7	9	A	510		SHORE RD	1020	1	2	0.000	
	7	9	B	510		SHORE RD	1020	1	2	0.000	
	7	9	C	510		SHORE RD	1020	1	2	0.000	
	7	10	1	496		SHORE RD	1020	1	3	0.000	
	7	10	2	496		SHORE RD	1020	1	1	0.000	
	7	10	3	496		SHORE RD	1020	1	1	0.000	
	7	10	4	496		SHORE RD	1020	1	1	0.000	
	7	10	5	496		SHORE RD	1020	1	1	0.000	
	7	10	6	496		SHORE RD	1020	1	1	0.000	
	7	10	7	496		SHORE RD	1020	1	1	0.000	
	7	10	8	496		SHORE RD	1020	1	1	0.000	
	7	10	9	496		SHORE RD	1020	1	1	0.000	
	7	10	10	496		SHORE RD	1020	1	1	0.000	
	7	10	11	496		SHORE RD	1020	1	1	0.000	
	7	10	12	496		SHORE RD	1020	1	2	0.000	
	7	10	13	496		SHORE RD	1020	1	2	0.000	
	7	10	14	496		SHORE RD	1020	1	2	0.000	
	7	10	15	496		SHORE RD	1020	1	2	0.000	
	7	10	16	496		SHORE RD	1020	1	2	0.000	
	7	10	17	496		SHORE RD	1020	1	2	0.000	
	7	10	18	496		SHORE RD	1020	1	2	0.000	
	7	10	19	496		SHORE RD	1020	1	1	0.000	
	7	10	20	496		SHORE RD	1020	1	1	0.000	
	7	10	21	496		SHORE RD	1020	1	3	0.000	
	8	1	0	481	A	SHORE RD	1300			0.379	
	8	2	0	487		SHORE RD	1320			0.020	
	8	3	0	485		SHORE RD	1320			0.010	
	8	4	0	479		SHORE RD	1320			0.100	
	8	6	0	477		SHORE RD	1320			0.010	
	8	7	24	471		SHORE RD	1020	1	3	0.000	
	8	7	25	471		SHORE RD	1020	1	2	0.000	
	8	7	26	471		SHORE RD	1020	1	2	0.000	
	8	8	0	465		SHORE RD	1320			0.110	
	8	9	0	463		SHORE RD	1300			0.290	
	8	11	0	459		SHORE RD	1320			0.020	
	8	12	0	457		SHORE RD	1320			0.110	
	8	13	0	455		SHORE RD	1320			0.110	
	8	14	0	453		SHORE RD	1320			0.110	
	8	15	0	449		SHORE RD	1300			0.220	
	8	16	0	445		SHORE RD	1010	1	2	0.220	
	8	17	0	443		SHORE RD	1320			0.110	
	8	18	0	439		SHORE RD	1300			0.190	
	8	19	0	439	A	SHORE RD	1320			0.040	
	8	20	0	433		SHORE RD	0130	1	2	0.340	
	8	21	0	494		SHORE RD	1010	1	3	0.220	
	8	22	0	492		SHORE RD	1010	1	2	0.140	
	8	23	0	490		SHORE RD	1010	1	3	0.140	
	8	24	0	488		SHORE RD	1010	1	3	0.150	
	8	25	1	482		SHORE RD	1020	1	2	0.000	
	8	25	2	482		SHORE RD	1020	1	2	0.000	
	8	25	3	482		SHORE RD	1020	1	1	0.000	

	8	25	4	482		SHORE RD	1020	1	1	0.000	
	8	25	5	482		SHORE RD	1020	1	1	0.000	
	8	25	6	482		SHORE RD	1020	1	1	0.000	
	8	25	7	482		SHORE RD	1020	1	1	0.000	
	8	25	8	482		SHORE RD	1020	1	1	0.000	
	8	25	9	482		SHORE RD	1020	1	1	0.000	
	8	25	10	482		SHORE RD	1020	1	1	0.000	
	8	25	11	482		SHORE RD	1020	1	1	0.000	
	8	25	12	482		SHORE RD	1020	1	1	0.000	
	8	25	13	482		SHORE RD	1020	1	1	0.000	
	8	25	14	482		SHORE RD	1020	1	1	0.000	
	8	25	15	482		SHORE RD	1020	1	1	0.000	
	8	25	16	482		SHORE RD	1020	1	1	0.000	
	8	25	17	482		SHORE RD	1020	1	1	0.000	
	8	25	18	482		SHORE RD	1020	1	1	0.000	
	8	25	19	482		SHORE RD	1020	1	1	0.000	
	8	25	20	482		SHORE RD	1020	1	1	0.000	
	8	25	21	482		SHORE RD	1020	1	1	0.000	
	8	25	22	482		SHORE RD	1020	1	1	0.000	
	8	25	23	482		SHORE RD	1020	1	1	0.000	
	8	26	0	476		SHORE RD	1010	1	3	0.150	
	8	27	0	472		SHORE RD	1010	1	3	0.400	
	8	28	0	468		SHORE RD	1010	1	4	0.130	
	8	29	0	466		SHORE RD	1010	1	3	0.130	
	8	30	0	464		SHORE RD	1010	1	3	0.130	
	8	31	0	462		SHORE RD	1010	1	2	0.120	
	8	32	0	460		SHORE RD	1010	1	3	0.120	
	8	33	0	458		SHORE RD	1010	1	4	0.250	
	8	34	0	481		SHORE RD	1320			0.020	
	9	1	0	423		SHORE RD	1010	1	1	0.580	
	9	2	0	454		SHORE RD	1010	1	4	0.130	
	9	3	0	452		SHORE RD	1010	1	2	0.130	
	9	4	0	450		SHORE RD	1010	1	4	0.120	
	9	5	0	448		SHORE RD	1010	1	2	0.110	
	9	6	0	446		SHORE RD	1010	1	2	0.110	
	9	7	0	444		SHORE RD	1010	1	3	0.110	
	9	8	1	432		SHORE RD	1020	1	2	0.000	
	9	8	2	432		SHORE RD	1020	1	2	0.000	
	9	8	3	432		SHORE RD	1020	1	2	0.000	
	9	8	4	432		SHORE RD	1020	1	2	0.000	
	9	8	5	432		SHORE RD	1020	1	2	0.000	
	9	8	6	432		SHORE RD	1020	1	2	0.000	
	9	8	7	432		SHORE RD	1020	1	2	0.000	
	9	8	8	432		SHORE RD	1020	1	2	0.000	
	9	9	0	428		SHORE RD	1010	1	5	0.290	
	10	1	0	413	A	SHORE RD	1300			0.330	
	10	2	0	417		SHORE RD	1060			0.120	
	10	3	0	413		SHORE RD	3250	1	0	0.026	
	10	4	0	407		SHORE RD	1010	1	2	0.379	
	10	5	0	405		SHORE RD	1060			0.181	
	10	7	0	395		SHORE RD	1010	1	3	0.570	
	10	8	0	375	A	SHORE RD	1300			1.220	

	10	9	0	383		SHORE RD	1300			0.150	
	10	10	0	379		SHORE RD	1090	1	2	0.150	
	10	10	0	379		SHORE RD	1090	2	2	0.150	
	10	11	0	377		SHORE RD	1320			0.100	
	10	12	0	371		SHORE RD	1300			0.170	
	10	13	0	367		SHORE RD	3010	1	2	0.190	
	10	13	0	367		SHORE RD	3010	2	2	0.190	
	10	14	0	365		SHORE RD	1060			0.100	
	10	16	0	361		SHORE RD	1010	1	2	0.200	
	10	17	0	355		SHORE RD	1300			0.790	
	10	18	0	426		SHORE RD	1010	1	1	0.223	
	10	19	0	420		SHORE RD	1010	1	4	0.380	
	10	20	0	416		SHORE RD	1010	1	3	0.180	
	10	21	0	412		SHORE RD	1010	1	2	0.150	
	10	22	0	402		SHORE RD	3010	1	0	0.460	
	10	23	0	398		SHORE RD	1010	1	3	0.110	
	10	24	0	396		SHORE RD	1010	1	1	0.120	
	10	25	0	394		SHORE RD	1010	1	1	0.110	
	10	26	0	392		SHORE RD	1010	1	2	0.110	
	10	27	0	390		SHORE RD	1010	1	3	0.140	
	10	28	0	386		SHORE RD	1010	1	2	0.180	
	10	29	0	382		SHORE RD	1010	1	3	0.230	
	10	30	0	378		SHORE RD	1010	1	3	0.220	
	10	31	0	376		SHORE RD	1010	1	2	0.110	
	10	32	1	372		SHORE RD	1020	1	1	0.000	
	10	32	2	372		SHORE RD	1020	1	2	0.000	
	10	32	3	372		SHORE RD	1020	1	1	0.000	
	10	32	4	372		SHORE RD	1020	1	1	0.000	
	10	34	0	393		SHORE RD	1010	1	1	0.050	
	10	39	0	389		SHORE RD	1010	1	3	0.470	
	10	40	0	403		SHORE RD	1060			0.164	
	10	41	0	408		SHORE RD	3010	1	2	0.350	
	10	41	0	408		SHORE RD	3010	2	2	0.350	
	10	41	0	408		SHORE RD	3010	3	2	0.350	
	10	41	0	408		SHORE RD	3010	4	2	0.350	
	10	42	0	426	A	SHORE RD	1320			0.027	
	12	1	0	352		SHORE RD	3010	1	0	0.980	
	12	1	0	352		SHORE RD	3010	2	2	0.980	
	12	1	0	352		SHORE RD	3010	3	2	0.980	
	12	1	0	352		SHORE RD	3010	4	2	0.980	
	12	1	0	352		SHORE RD	3010	5	2	0.980	
	12	1	0	352		SHORE RD	3010	6	4	0.980	
	12	1	0	352		SHORE RD	3010	7	3	0.980	
	12	1	0	352		SHORE RD	3010	8	3	0.980	
	12	1	0	352		SHORE RD	3010	9	3	0.980	
	12	1	0	352		SHORE RD	3010	10	2	0.980	
	12	1	0	352		SHORE RD	3010	11	3	0.980	
	12	1	0	352		SHORE RD	3010	12	3	0.980	
	12	1	0	352		SHORE RD	3010	13	1	0.980	
	13	1	0	345		SHORE RD	0130	1	0	0.770	
	13	1	0	345		SHORE RD	0130	2	3	0.770	
	13	1	0	345		SHORE RD	0130	3	0	0.770	

	13	2	0	337		SHORE RD	3900			0.870	
	13	3	14	321		SHORE RD	1020	1	2	0.000	
	13	3	15	321		SHORE RD	1020	1	2	0.000	
	13	3	16	321		SHORE RD	1020	1	1	0.000	
	13	4	0	319		SHORE RD	1010	1	3	0.230	
	13	5	0	311	A	SHORE RD	9300			0.330	
	13	6	0	315		SHORE RD	9300			0.220	
	13	7	0	311		SHORE RD	9300			0.220	
	13	8	0	309		SHORE RD	1010	1	0	0.210	
	13	9	6	307		SHORE RD	1020	1	1	0.000	
	13	9	7	307		SHORE RD	1020	1	1	0.000	
	13	9	8	307		SHORE RD	1020	1	1	0.000	
	13	9	9	307		SHORE RD	1020	1	1	0.000	
	13	9	10	307		SHORE RD	1020	1	1	0.000	
	13	9	11	307		SHORE RD	1020	1	1	0.000	
	13	9	12	307		SHORE RD	1020	1	4	0.000	
	13	9	SB1	307		SHORE RD	1020	1	0	0.000	
	13	9	SB2	307		SHORE RD	1020	1	0	0.000	
	13	9	SB3	307		SHORE RD	1020	1	0	0.000	
	13	9	SB4	307		SHORE RD	1020	1	0	0.000	
	13	9	SB5	307		SHORE RD	1020	1	0	0.000	
	13	10	0	299		SHORE RD	1010	1	1	0.410	
	13	12	0	271		SHORE RD	0310	1	0	1.254	
	13	13	0	299	A	SHORE RD	1300			10.140	
	13	14	1	334		SHORE RD	1020	1	2	0.000	
	13	14	2	334		SHORE RD	1020	1	2	0.000	
	13	14	3	334		SHORE RD	1020	1	2	0.000	
	13	14	4	334		SHORE RD	1020	1	2	0.000	
	13	14	5	334		SHORE RD	1020	1	2	0.000	
	13	14	6	334		SHORE RD	1020	1	2	0.000	
	13	14	7	334		SHORE RD	1020	1	2	0.000	
	13	14	8	334		SHORE RD	1020	1	2	0.000	
	13	14	9	334		SHORE RD	1020	1	2	0.000	
	13	14	10	334		SHORE RD	1020	1	2	0.000	
	13	14	11	334		SHORE RD	1020	1	2	0.000	
	13	14	12	334		SHORE RD	1020	1	2	0.000	
	13	14	13	334		SHORE RD	1020	1	2	0.000	
	13	15	0	332		SHORE RD	1320			0.040	
	13	16	0	330		SHORE RD	1320			0.090	
	13	17	0	328		SHORE RD	9300			0.220	
	13	18	0	322		SHORE RD	9300			0.220	
	13	19	0	320		SHORE RD	1320			0.090	
	13	20	1	314		SHORE RD	1020	1	2	0.000	
	13	20	2	314		SHORE RD	1020	1	2	0.000	
	13	20	3	314		SHORE RD	1020	1	2	0.000	
	13	20	4	314		SHORE RD	1020	1	2	0.000	
	13	20	5	314		SHORE RD	1020	1	2	0.000	
	13	21	0	310		SHORE RD	1320			0.090	
	13	22	0	276		SHORE RD	3450	1	2	0.000	
	13	22	0	276		SHORE RD	3450	2	2	0.000	
	13	22	0	276		SHORE RD	3450	3	2	0.000	
	13	22	0	276		SHORE RD	3450	4	2	0.000	

	13	22	0	276		SHORE RD	3450	5	2	0.000	
	13	22	0	276		SHORE RD	3450	6	2	0.000	
	13	22	0	276		SHORE RD	3450	7	2	0.000	
	13	22	0	276		SHORE RD	3450	8	2	0.000	
	13	22	0	276		SHORE RD	3450	9	2	0.000	
	13	22	0	276		SHORE RD	3450	10	2	0.000	
	13	22	0	276		SHORE RD	3450	11	2	0.000	
	13	22	0	276		SHORE RD	3450	12	2	0.000	
	13	22	0	276		SHORE RD	3450	13	2	0.000	
	13	22	0	276		SHORE RD	3450	14	2	0.000	
	13	22	0	276		SHORE RD	3450	15	2	0.000	
	13	22	0	276		SHORE RD	3450	16	2	0.000	
	13	22	0	276		SHORE RD	3450	17	2	0.000	
	13	22	0	276		SHORE RD	3450	18	2	0.000	
	13	22	0	276		SHORE RD	3450	19	2	0.000	
	13	22	0	276		SHORE RD	3450	20	2	0.000	
	13	22	0	276		SHORE RD	3450	21	2	0.000	
	13	22	0	276		SHORE RD	3450	22	2	0.000	
	13	23	0	277		SHORE RD	3010	1	2	0.832	
	13	24	0	281		SHORE RD	3920			0.453	
	14	1	0	538		RT 6	9320			0.800	
	14	2	0	0		CAPT MAYO DR	9320			0.800	
	14	3	0	0		CAPT MAYO DR	9240			0.860	
	17	1	1	263		SHORE RD	1020	1	4	0.000	
	17	1	2	263		SHORE RD	1020	1	1	0.000	
	17	1	3	263		SHORE RD	1020	1	1	0.000	
	17	2	0	261		SHORE RD	1300			0.210	
	17	3	0	257		SHORE RD	1010	1	4	0.210	
	17	4	0	239		SHORE RD	1300			0.960	
	17	5	0	237		SHORE RD	1010	1	1	0.320	
	17	6	0	231		SHORE RD	1300			0.376	
	17	7	0	209		SHORE RD	0310	1	0	3.052	
	17	7	0	209		SHORE RD	0310	2	2	3.052	
	17	7	0	209		SHORE RD	0310	3	2	3.052	
	17	7	0	209		SHORE RD	0310	4	2	3.052	
	17	7	0	209		SHORE RD	0310	5	0	3.052	
	17	7	0	209		SHORE RD	0310	6	0	3.052	
	17	9	0	207		SHORE RD	9300			0.240	
	17	11	0	274		SHORE RD	1010	1	3	0.110	
	17	12	0	270		SHORE RD	1300			0.230	
	17	13	0	266		SHORE RD	1300			0.220	
	17	14	0	258		SHORE RD	1090	1	3	0.760	
	17	14	0	258		SHORE RD	1090	2	4	0.760	
	17	16	0	248		SHORE RD	1010	1	2	0.260	
	17	17	0	242		SHORE RD	1010	1	1	0.120	
	17	18	0	218		SHORE RD	3010	1	0	1.422	
	17	18	0	218		SHORE RD	3010	2	0	1.422	
	17	18	0	218		SHORE RD	3010	3	0	1.422	
	17	19	0	253	A	SHORE RD	1320			0.580	
	17	20	0	239	A	SHORE RD	1320			0.570	
	17	21	0	235	A	SHORE RD	1320			0.230	
	17	23	0	0		CAPT MAYO DR	9320			0.830	

	17	24	0	0		CAPT MAYO DR	9320			0.790	
	17	25	0	0		MOON POND LN	9320			1.290	
	17	26	0	0		CAPT MAYO DR	9320			1.240	
	17	27	0	0		CAPT MAYO DR	9240			0.820	
	18	2	0	506		RT 6	9320			24.230	
	18	3	0	506	A	RT 6	9800			1.650	
	18	4	0	0		CAPT MAYO DR	9240			1.000	
	18	5	0	0		CAPT MAYO DR	9240			0.900	
	18	6	0	0		ISAAC SMALL LN	9240			0.960	
	18	7	0	0		ISAAC SMALL LN	9240			0.800	
	18	8	0	0		ISAAC SMALL LN	9240			0.810	
	18	9	0	0		CAPT MAYO DR	9240			0.780	
	18	10	0	0		CAPT MAYO DR	9300			0.790	
	18	11	0	524		RT 6	9300			0.790	
	18	12	0	0		CAPT MAYO DR	9300			0.790	
	18	13	0	0		CAPT MAYO DR	9300			0.790	
	18	14	0	0		CAPT MAYO DR	9320			0.790	
	18	15	0	0		CAPT MAYO DR	9320			0.790	
	18	16	0	0		CAPT MAYO DR	9100			1.060	
	18	17	0	0		CAPT MAYO DR	9320			1.320	
	19	1	0	143		SHORE RD	9810	1	0	27.090	
	19	2	0	4		MOON POND RD	1010	1	2	0.310	
	20	2	0	216		SHORE RD	9300			0.120	
	20	3	0	214		SHORE RD	9300			1.100	
	21	1	0	205		SHORE RD	9320			1.700	
	21	2	0	179		SHORE RD	3010	1	0	1.270	
	21	3	0	190		SHORE RD	3450	1	0	0.000	
	21	3	A	188		SHORE RD	1020	1	1	0.000	
	21	3	B	188		SHORE RD	1020	1	1	0.000	
	21	3	C	184		SHORE RD	1020	1	1	0.000	
	21	3	D	184		SHORE RD	1020	1	1	0.000	
	21	3	G	178		SHORE RD	1020	1	1	0.000	
	21	3	H	178		SHORE RD	1020	1	1	0.000	
	21	3	I	178	A	SHORE RD	1020	1	1	0.000	
	21	3	J	178	A	SHORE RD	1020	1	1	0.000	
	21	4	1	174		SHORE RD	1020	1	1	0.000	
	21	4	2	174		SHORE RD	1020	1	1	0.000	
	21	4	3	174		SHORE RD	1020	1	1	0.000	
	21	4	4	174		SHORE RD	1020	1	2	0.000	
	21	4	5	174		SHORE RD	1020	1	2	0.000	
	21	4	6	174		SHORE RD	1020	1	2	0.000	
	21	4	7	174		SHORE RD	1020	1	2	0.000	
	21	4	8	174		SHORE RD	1020	1	2	0.000	
	21	4	9	174		SHORE RD	1020	1	2	0.000	
	21	4	10	174		SHORE RD	1020	1	2	0.000	
	21	4	11	174		SHORE RD	1020	1	1	0.000	
	21	4	12	174		SHORE RD	1020	1	1	0.000	
	21	4	13	174		SHORE RD	1020	1	2	0.000	
	21	4	14	174		SHORE RD	1020	1	2	0.000	
	21	4	15	174		SHORE RD	1020	1	2	0.000	
	21	4	16	174		SHORE RD	1020	1	2	0.000	
	21	4	17	174		SHORE RD	1020	1	2	0.000	

	21	4	18	174		SHORE RD	1020	1	2	0.000	
	21	4	19	174		SHORE RD	1020	1	2	0.000	
	21	5	1	168		SHORE RD	1020	1	1	0.000	
	21	5	2	168		SHORE RD	1020	1	1	0.000	
	21	5	3	168		SHORE RD	1020	1	1	0.000	
	21	5	4	168		SHORE RD	1020	1	2	0.000	
	21	5	5	168		SHORE RD	1020	1	2	0.000	
	21	5	6	168		SHORE RD	1020	1	1	0.000	
	21	5	7	168		SHORE RD	1020	1	2	0.000	
	21	5	8	168		SHORE RD	1020	1	1	0.000	
	21	5	9	168		SHORE RD	1020	1	1	0.000	
	21	5	10	168		SHORE RD	1020	1	1	0.000	
	21	5	11	168		SHORE RD	1020	1	2	0.000	
	21	5	12	168		SHORE RD	1020	1	2	0.000	
	21	5	13	168		SHORE RD	1020	1	2	0.000	
	21	6	1	1		KNOWLES HGTS RD	1020	1	2	0.000	
	21	6	2	1		KNOWLES HGTS RD	1020	1	2	0.000	
	21	6	3	1		KNOWLES HGTS RD	1020	1	2	0.000	
	21	6	4	1		KNOWLES HGTS RD	1020	1	2	0.000	
	21	6	5	1		KNOWLES HGTS RD	1020	1	2	0.000	
	21	6	6	1		KNOWLES HGTS RD	1020	1	3	0.000	
	21	7	0	3		KNOWLES HGTS RD	3010	1	3	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	2	3	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	3	3	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	4	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	5	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	6	1	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	7	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	8	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	9	3	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	10	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	11	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	12	3	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	13	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	14	2	3.920	
	21	7	0	3		KNOWLES HGTS RD	3010	15	0	3.920	
	21	8	0	6		KNOWLES HGTS RD	1010	1	4	0.740	
	21	9	0	154		SHORE RD	0310	1	0	0.360	
	21	10	0	169		SHORE RD	3010	1	0	1.500	
	21	10	0	169		SHORE RD	3010	2	0	1.500	
	21	11	0	147		SHORE RD	3900			0.780	
	21	13	0	4		KNOWLES HGTS RD	1010	1	4	0.790	
	21	14	0	187		SHORE RD	1010	1	2	0.640	
	21	15	0	187	A	SHORE RD	1320			0.590	
	22	1	0	16		HIGHLAND AVE	1010	1	3	0.900	
	22	2	0	5		HIGHLAND TERR	9800			0.320	
	22	3	0	4		HIGHLAND TERR	9800			0.340	
	22	4	0	0		CHADWICK RD	9800			0.320	
	22	5	0	0		CHADWICK RD	9800			0.300	
	22	6	0	0		MATTA RD	9800			0.230	
	22	7	0	0		MATTA RD	9800			0.270	
	22	8	0	0		SUNSET RD	9800			0.260	

	22	9	0	0		SUNSET RD	9800			0.240	
	22	10	0	7		SUNSET RD	1010	1	2	0.230	
	22	11	0	9		SUNSET RD	1010	1	3	0.210	
	22	12	0	11		SUNSET RD	1010	1	3	0.272	
	22	13	0	139		SHORE RD	1010	1	3	0.480	
	22	14	0	137		SHORE RD	1010	1	1	0.290	
	22	19	0	3		MATTA RD	1010	1	2	0.230	
	22	20	0	4		CHADWICK RD	1010	1	1	0.170	
	22	21	0	3		CHADWICK RD	1010	1	3	0.260	
	22	22	0	14		HIGHLAND AVE	1040	1	3	0.320	
	22	24	0	12		HIGHLAND AVE	1010	1	4	0.230	
	22	25	0	10		HIGHLAND AVE	1010	1	2	0.230	
	22	26	0	1		MATTA RD	1010	1	3	0.230	
	22	27	0	6		HIGHLAND AVE	1010	1	2	0.470	
	22	29	0	2		HIGHLAND AVE	1010	1	3	0.780	
	22	31	0	131		SHORE RD	1010	1	1	0.420	
	22	33	0	5		HIGHLAND AVE	1010	1	2	0.230	
	22	34	0	7		HIGHLAND AVE	1010	1	2	0.230	
	22	35	0	9		HIGHLAND AVE	1010	1	2	0.460	
	22	36	0	11		HIGHLAND AVE	1010	1	2	0.150	
	22	37	0	13		HIGHLAND AVE	1010	1	2	0.230	
	22	38	0	15		HIGHLAND AVE	1010	1	1	0.230	
	22	39	0	10		ARROWHEAD RD	1010	1	3	0.360	
	22	40	0	8		ARROWHEAD RD	1010	1	4	0.360	
	22	40	0	8		ARROWHEAD RD	1010	2	1	0.360	
	22	41	0	6		ARROWHEAD RD	1040	1	4	0.360	
	22	42	0	4		ARROWHEAD RD	1010	1	2	0.360	
	22	43	0	127		SHORE RD	3010	1	3	0.880	
	22	43	0	127		SHORE RD	3010	2	1	0.880	
	22	43	0	127		SHORE RD	3010	3	1	0.880	
	22	43	0	127		SHORE RD	3010	4	1	0.880	
	22	43	0	127		SHORE RD	3010	5	1	0.880	
	22	43	0	127		SHORE RD	3010	6	1	0.880	
	22	44	1	125		SHORE RD	1020	1	1	0.000	
	22	44	2	125		SHORE RD	1020	1	1	0.000	
	22	44	3	125		SHORE RD	1020	1	1	0.000	
	22	44	4	125		SHORE RD	1020	1	1	0.000	
	22	44	5	125		SHORE RD	1020	1	1	0.000	
	22	44	6	125		SHORE RD	1020	1	1	0.000	
	22	44	7	125		SHORE RD	1020	1	1	0.000	
	22	44	9	125		SHORE RD	1020	1	1	0.000	
	22	44	10	125		SHORE RD	1020	1	1	0.000	
	22	44	11	125		SHORE RD	1020	1	1	0.000	
	22	44	12	125		SHORE RD	1020	1	3	0.000	
	22	44	14	125		SHORE RD	1020	1	1	0.000	
	22	44	15	125		SHORE RD	1020	1	2	0.000	
	22	44	16	125		SHORE RD	1020	1	1	0.000	
	22	44	18	125		SHORE RD	1020	1	1	0.000	
	22	45	1	132		SHORE RD	1020	1	1	0.000	
	22	45	2	132		SHORE RD	1020	1	1	0.000	
	22	45	3	132		SHORE RD	1020	1	1	0.000	
	22	45	4	132		SHORE RD	1020	1	1	0.000	

	22	45	5	132		SHORE RD	1020	1	1	0.000
	22	45	6	132		SHORE RD	1020	1	1	0.000
	22	45	7	132		SHORE RD	1020	1	1	0.000
	22	45	8	132		SHORE RD	1020	1	1	0.000
	22	45	9	132		SHORE RD	1020	1	1	0.000
	22	45	10	132		SHORE RD	1020	1	1	0.000
	22	45	11	132		SHORE RD	1020	1	1	0.000
	22	45	12	132		SHORE RD	1020	1	1	0.000
	22	45	13	132		SHORE RD	1020	1	1	0.000
	22	45	14	132		SHORE RD	1020	1	1	0.000
	22	45	15	132		SHORE RD	1020	1	1	0.000
	22	45	16	132		SHORE RD	1020	1	1	0.000
	22	45	17	132		SHORE RD	1020	1	2	0.000
	22	45	20	132		SHORE RD	1020	1	1	0.000
	22	45	21	132		SHORE RD	1020	1	1	0.000
	22	45	22	132		SHORE RD	1020	1	1	0.000
	22	45	23	132		SHORE RD	1020	1	1	0.000
	22	45	24	132		SHORE RD	1020	1	1	0.000
	22	45	25	132		SHORE RD	1020	1	1	0.000
	22	45	26	132		SHORE RD	1020	1	1	0.000
	22	45	27	132		SHORE RD	1020	1	1	0.000
	22	45	28	132		SHORE RD	1020	1	1	0.000
	22	45	29	132		SHORE RD	1020	1	1	0.000
	22	45	30	132		SHORE RD	1020	1	1	0.000
	22	45	31	132		SHORE RD	1020	1	1	0.000
	22	45	40	132		SHORE RD	1020	1	1	0.000
	22	45	41	132		SHORE RD	1020	1	1	0.000
	22	45	42	132		SHORE RD	1020	1	1	0.000
	22	45	43	132		SHORE RD	1020	1	1	0.000
	22	45	44	132		SHORE RD	1020	1	1	0.000
	22	45	45	132		SHORE RD	1020	1	1	0.000
	22	45	46	132		SHORE RD	1020	1	1	0.000
	22	45	47	132		SHORE RD	1020	1	1	0.000
	22	45	48	132		SHORE RD	1020	1	1	0.000
	22	45	49	132		SHORE RD	1020	1	1	0.000
	22	45	50	132		SHORE RD	1020	1	1	0.000
	22	45	51	132		SHORE RD	1020	1	1	0.000
	22	46	0	136		SHORE RD	1040	1	3	0.780
	22	48	0	146		SHORE RD	0130	1	3	0.670
	22	48	0	146		SHORE RD	0130	2	0	0.670
	22	49	1	148		SHORE RD	1020	1	1	0.000
	22	49	2	148		SHORE RD	1020	1	2	0.000
	22	49	3	148		SHORE RD	1020	1	2	0.000
	22	49	4	148		SHORE RD	1020	1	2	0.000
	22	49	5	148		SHORE RD	1020	1	1	0.000
	22	50	0	150		SHORE RD	3010	1	2	1.120
	22	50	0	150		SHORE RD	3010	2	1	1.120
	22	50	0	150		SHORE RD	3010	3	2	1.120
	22	50	0	150		SHORE RD	3010	4	2	1.120
	22	50	0	150		SHORE RD	3010	5	2	1.120
	22	50	0	150		SHORE RD	3010	6	2	1.120
	22	51	0	140		SHORE RD	1010	1	3	0.780

	22	52	0	2		WATERVIEW HGTS RD	1010	1	3	0.780
	22	53	0	4		WATERVIEW HGTS RD	1010	1	3	0.780
	22	54	0	3		WATERVIEW HGTS RD	1010	1	4	0.990
	22	55	0	1		WATERVIEW HGTS RD	1010	1	4	0.980
	22	56	0	133		SHORE RD	1010	1	3	0.960
	22	57	0	135		SHORE RD	1320			0.490
	23	1	0	9		KNOWLES HGTS RD	3010	1	0	4.060
	23	1	0	9		KNOWLES HGTS RD	3010	2	0	4.060
	24	2	0	10		KNOWLES HGTS RD	1010	1	4	0.780
	24	3	0	12		KNOWLES HGTS RD	1010	1	4	0.810
	24	4	0	14		KNOWLES HGTS RD	1010	1	3	0.810
	24	5	0	11		KNOWLES HGTS RD	1010	1	3	1.050
	24	6	0	13		KNOWLES HGTS RD	1010	1	4	1.590
	24	7	0	20		KNOWLES HGTS RD	1010	1	3	0.810
	24	8	0	22		KNOWLES HGTS RD	1010	1	3	0.810
	24	9	0	24		KNOWLES HGTS RD	1010	1	4	0.810
	24	10	0	25		KNOWLES HGTS RD	1090	1	1	1.630
	24	10	0	25		KNOWLES HGTS RD	1090	2	1	1.630
	24	10	0	25		KNOWLES HGTS RD	1090	3	1	1.630
	24	10	0	25		KNOWLES HGTS RD	1090	4	2	1.630
	24	11	0	21		KNOWLES HGTS RD	1010	1	3	0.200
	24	13	0	4		SAMS WAY	1300			1.000
	24	14	0	19		KNOWLES HGTS RD	1010	1	3	0.970
	24	20	0	15		KNOWLES HGTS RD	1010	1	7	1.370
	24	22	0	8		KNOWLES HGTS RD	1010	1	4	0.760
	24	23	0	2		WHALE WATCH DR	1300			0.790
	24	24	0	4		WHALE WATCH DR	1010	1	4	1.160
	24	25	0	6		WHALE WATCH DR	1010	1	3	1.070
	24	26	0	8		WHALE WATCH DR	1010	1	3	0.830
	24	27	0	10		WHALE WATCH DR	1010	1	4	1.120
	24	28	0	1		WHALE WATCH DR	1300			0.780
	24	29	0	3		WHALE WATCH DR	1300			0.930
	24	30	0	5		WHALE WATCH DR	1010	1	3	0.990
	24	31	0	7		WHALE WATCH DR	1010	1	4	0.880
	24	32	0	12		WHALE WATCH DR	1300			0.900
	24	33	0	128		SHORE RD	1010	1	4	1.110
	25	1	0	0		DUNES - PILGRIM LAKE	9000			0.720
	25	1	A	0		DUNE SHACK	1010			0.000
	25	2	0	0		DUNES - PILGRIM LAKE	9000			0.880
	25	2	A	0		DUNE SHACK	1010			0.000
	25	3	0	0		DUNES - PILGRIM LAKE	9000			1.000
	25	3	A	0		DUNE SHACK	1010			0.000
	26	1	0	0		DUNES - PILGRIM LAKE	9000			1.000
	26	2	0	0		DUNES - PILGRIM LAKE	9000			1.000
	26	3	0	0		DUNES - PILGRIM LAKE	9000			1.000
	26	3	A	0		DUNE SHACK	1010			0.000
	26	4	0	0		DUNES - PILGRIM LAKE	9000			1.000
	26	5	0	0		DUNES - PILGRIM LAKE	9000			1.000
	26	6	0	0		DUNES - PILGRIM LAKE	9000			0.500
	27	1	0	0		DUNES - PILGRIM LAKE	9000			1.000
	29	1	0	8		CLIFF RD	9000			0.330
	29	2	0	10		CLIFF RD	9000			0.130

	29	3	0	12		CLIFF RD	9000			0.120	
	29	4	0	4		PRISCILLA RD	9360			0.110	
	29	5	0	5		PRISCILLA RD	1010	1	4	1.490	
	29	6	0	16		CLIFF RD	1320			0.110	
	29	7	0	2		ALDEN RD	1060			0.320	
	29	8	0	20		CLIFF RD	1010	1	4	0.230	
	29	9	0	3		ALDEN RD	1010	1	3.5	0.570	
	29	9	0	3		ALDEN RD	1010	2	2	0.570	
	29	10	0	22		CLIFF RD	1010	1	4	0.460	
	29	11	0	4		MAYFLOWER RD	1060			0.230	
	29	12	0	6		MAYFLOWER RD	1060			0.110	
	29	13	0	24		CLIFF RD	1010	1	3	0.310	
	29	14	0	8		MAYFLOWER RD	1320			0.110	
	29	15	0	30		CLIFF RD	9000			0.960	
	29	16	0	5		ALDEN RD	9000			0.110	
	29	17	0	26		CLIFF RD	9000	1	3	0.600	
	30	1	0	1		CLIFF RD	9000			0.120	
	30	2	0	25		BRADFORD RD	1010	1	3	0.660	
	30	3	0	3		ALLERTON RD	9360			0.230	
	30	4	0	44		BREWSTER RD	9360			0.460	
	30	5	0	5		ALLERTON RD	9000			0.230	
	30	6	0	8		PRISCILLA RD	1320			0.230	
	30	7	0	9		ALDEN RD	9300			0.110	
	30	8	0	14		MAYFLOWER RD	9000			0.230	
	30	9	0	34		MAYFLOWER RD	9000			0.460	
	30	10	0	13		HOLDEN AVE	9000			0.110	
	30	11	0	15		HOLDEN AVE	9000			0.230	
	30	12	0	39		ALDEN RD	9300			0.110	
	30	13	0	43		ALDEN RD	9000			0.340	
	30	14	0	44		ALDEN RD	9000			0.340	
	30	15	0	13		CHATHAM AVE	9000			0.230	
	30	16	0	0		DUNES BEYOND HIGH HD	9000			1.000	
	30	17	0	19		BRADFORD RD	9000			2.620	
	32	1	0	488		RT 6	1010	1	2	1.220	
	32	2	0	17		HIGHLAND AVE	1010	1	3	0.230	
	32	3	0	19		HIGHLAND AVE	1010	1	4	0.230	
	32	4	0	21		HIGHLAND AVE	1010	1	2	0.520	
	32	6	0	12		ARROWHEAD RD	1010	1	4	0.360	
	32	7	0	14		ARROWHEAD RD	1010	1	5	0.360	
	32	8	0	16		ARROWHEAD RD	1010	1	3	0.800	
	32	9	0	482		RT 6	3340	1	0	0.430	
	32	10	0	7		ARROWHEAD RD	1010	1	3	0.720	
	32	11	0	9		ARROWHEAD RD	1090	1	1	0.720	
	32	11	0	9		ARROWHEAD RD	1090	2	1	0.720	
	32	12	0	11		ARROWHEAD RD	1010	1	2	0.720	
	32	14	0	123		SHORE RD	1320			1.586	
	32	15	0	121		SHORE RD	0310	1	0	1.822	
	32	15	0	121		SHORE RD	0310	2	1	1.822	
	32	15	0	121		SHORE RD	0310	3	1	1.822	
	32	15	0	121		SHORE RD	0310	4	1	1.822	
	32	15	0	121		SHORE RD	0310	5	1	1.822	
	32	15	0	121		SHORE RD	0310	6	1	1.822	

	32	15	0	121		SHORE RD	0310	7	1	1.822
	32	15	0	121		SHORE RD	0310	8	1	1.822
	32	15	0	121		SHORE RD	0310	9	1	1.822
	32	16	0	4		ARROWHEAD PATH	1010	1	3	1.100
	32	17	0	2		ARROWHEAD PATH	1010	1	3	0.860
	32	18	0	9		ARROWHEAD FARM RD	1010	1	2	4.770
	32	19	0	38		CLIFF RD	1010	1	2	0.630
	32	19	A	40		CLIFF RD	1320			0.170
	32	20	0	57		PRISCILLA RD	9300			0.460
	32	21	0	70		PRISCILLA RD	9300			0.110
	32	22	0	69		PRISCILLA RD	9300			0.340
	32	23	0	78		PRISCILLA RD	9300			0.110
	32	24	0	42		CLIFF RD	1320			0.140
	32	25	0	61		ALDEN RD	9000			0.340
	32	26	0	50		CLIFF RD	9000			1.970
	32	27	0	55		ALDEN RD	9300			0.460
	32	28	0	535		RT 6	3010	1	0	11.950
	32	28	0	535		RT 6	3010	2	0	11.950
	32	28	0	535		RT 6	3010	3	0	11.950
	32	28	0	535		RT 6	3010	4	0	11.950
	32	28	0	535		RT 6	3010	5	0	11.950
	32	28	0	535		RT 6	3010	6	0	11.950
	32	28	0	535		RT 6	3010	7	0	11.950
	32	28	0	535		RT 6	3010	8	0	11.950
	32	28	0	535		RT 6	3010	9	0	11.950
	32	29	0	493		RT 6	9800			1.380
	32	30	0	489		RT 6	1010	1	3	0.470
	32	31	0	481		RT 6	0310	1	0	4.130
	32	32	0	6		ARROWHEAD FARM RD	1010	1	5	1.500
	32	33	0	13		ARROWHEAD RD	1300			1.010
	32	34	0	15		ARROWHEAD RD	3160	1	0	0.950
	32	35	0	123		SHORE RD	1300			0.889
	32	36	0	119		SHORE RD	1300			1.460
	32	37	0	487		RT 6	9000	1	3	1.000
	32	38	0	8		ARROWHEAD FARM RD	1010	1	3	0.790
	33	1	0	0		HD OF MEADOW RD	9300			2.840
	33	2	0	0		HD OF MEADOW RD	9000			22.670
	33	3	0	63		HD OF MEADOW RD	1010	1	2	5.560
	33	4	0	15		COAST GUARD PATH	1010	1	4	0.640
	33	5	0	0		HD OF MEADOW RD	9000			1.840
	33	6	0	12		COAST GUARD PATH	9000			1.000
	33	7	0	7		OCEAN VIEW TERR	1010	1	3	0.460
	33	8	0	1		PEARSALL DR	1010	1	1	0.920
	33	9	0	4		PEARSALL DR	1010	1	2	0.460
	33	27	0	6		MEADOW TERR	1010	1	2	0.460
	33	28	0	5		MEADOW TERR	1010	1	2	0.460
	33	29	0	3		COAST GUARD LN	1010	1	5	0.410
	33	30	0	4		COAST GUARD LN	1010	1	3	1.320
	33	31	0	53		HD OF MEADOW RD	3920			0.800
	33	32	0	52		HD OF MEADOW RD	3860	1	0	57.270
	33	32	0	52		HD OF MEADOW RD	3860	2	0	57.270
	33	32	0	52		HD OF MEADOW RD	3860	3	0	57.270

	33	32	0	52		HD OF MEADOW RD	3860	4	2	57.270	
	33	32	0	52		HD OF MEADOW RD	3860	5	0	57.270	
	33	32	0	52		HD OF MEADOW RD	3860	6	0	57.270	
	33	32	0	52		HD OF MEADOW RD	3860	7	0	57.270	
	33	33	0	54		HD OF MEADOW RD	9000			1.480	
	33	34	0	42		HD OF MEADOW RD	9000	1	4	0.520	
	33	35	0	2		PEARSALL DR	9000			0.460	
	33	36	0	8		MEADOW TERR	9000	1	2	0.460	
	33	37	0	4		MEADOW TERR	9000	1	2	0.460	
	33	38	0	32		COAST GUARD RD	9000	1	3	8.600	
	33	39	0	36		HD OF MEADOW RD	9000			6.020	
	33	40	0	44		COAST GUARD RD	9310			0.050	
	34	1	0	11		COAST GUARD TERR	1010	1	3	0.560	
	34	2	0	23		COAST GUARD RD	1010	1	2	3.480	
	34	3	0	17		COAST GUARD RD	3010	1	2	7.280	
	34	3	0	17		COAST GUARD RD	3010	2	2	7.280	
	34	3	0	17		COAST GUARD RD	3010	3	1	7.280	
	34	3	0	17		COAST GUARD RD	3010	4	1	7.280	
	34	3	0	17		COAST GUARD RD	3010	5	1	7.280	
	34	3	0	17		COAST GUARD RD	3010	6	2	7.280	
	34	4	0	11		KIMBERLEY LN	1010	1	4	1.540	
	34	5	0	7		COAST GUARD RD	1090	1	3	3.000	
	34	5	0	7		COAST GUARD RD	1090	2	1	3.000	
	34	6	0	4		COAST GUARD TERR	9000	1	3	0.300	
	34	7	0	8		COAST GUARD TERR	9000	1	3	0.300	
	34	8	0	15		KIMBERLEY LN	9000	1	3	0.500	
	34	9	0	21		COAST GUARD RD	9000	1	2	3.500	
	34	9	0	21		COAST GUARD RD	9000	2	1	3.500	
	34	9	0	21		COAST GUARD RD	9000	3	1	3.500	
	34	9	0	21		COAST GUARD RD	9000	4	1	3.500	
	34	10	0	7		COAST GUARD TERR	9000	1	3	0.290	
	35	1	0	27		KNOWLES HGTS RD	1010	1	4	0.940	
	35	4	0	28		KNOWLES HGTS RD	1010	1	4	0.640	
	35	5	0	24		WINDIGO LN	1010	1	3	0.520	
	35	6	0	26		WINDIGO LN	1010	1	4	0.580	
	35	7	0	29		KNOWLES HGTS RD	1010	1	3	0.670	
	35	8	0	31		KNOWLES HGTS RD	1010	1	4	1.210	
	35	8	0	31		KNOWLES HGTS RD	1010	2	2	1.210	
	35	9	0	33		KNOWLES HGTS RD	1010	1	3	0.560	
	35	10	0	22		WINDIGO LN	1010	1	2	0.520	
	35	11	0	17		WINDIGO LN	1010	1	3	0.570	
	35	12	0	35		KNOWLES HGTS RD	1010	1	1	1.640	
	35	13	0	30		KNOWLES HGTS RD	1010	1	3	0.530	
	35	14	0	32		KNOWLES HGTS RD	1300			0.530	
	35	15	0	20		WINDIGO LN	1010	1	3	0.530	
	35	16	0	15		WINDIGO LN	1010	1	3	0.610	
	35	17	0	13		WINDIGO LN	1010	1	3	0.600	
	35	18	0	39		KNOWLES HGTS RD	1010	1	4	1.520	
	35	19	0	41		KNOWLES HGTS RD	1320			0.430	
	35	20	0	34		KNOWLES HGTS RD	1300			0.530	
	35	21	0	18		WINDIGO LN	1010	1	3	0.530	
	35	22	0	14		WINDIGO LN	1010	1	3	0.590	

	35	23	0	43		KNOWLES HGTS RD	1010	1	2	1.680	
	35	23	0	43		KNOWLES HGTS RD	1010	2	1	1.680	
	35	24	0	36		KNOWLES HGTS RD	1010	1	1	0.520	
	35	25	0	16		WINDIGO LN	1010	1	3	0.640	
	35	26	0	45		KNOWLES HGTS RD	1300			1.550	
	35	27	0	49		KNOWLES HGTS RD	1010	1	3	1.330	
	35	28	0	8		SANDPIPER AVE	1300			0.780	
	35	29	0	124		SHORE RD	1050	1	0	0.310	
	35	30	0	115		SHORE RD	1010	1	3	0.570	
	35	31	0	113		SHORE RD	1010	1	3	0.520	
	35	32	0	5		ARROWHEAD FARM RD	1010	1	3	1.070	
	35	33	1	122		SHORE RD	1020	1	1	0.000	
	35	33	2	122		SHORE RD	1020	1	1	0.000	
	35	33	3	122		SHORE RD	1020	1	2	0.000	
	35	33	4	122		SHORE RD	1020	1	2	0.000	
	35	33	5	122		SHORE RD	1020	1	1	0.000	
	35	33	6	122		SHORE RD	1020	1	3	0.000	
	35	33	6	122		SHORE RD	1020	2	1	0.000	
	35	33	7	122		SHORE RD	1020	1	2	0.000	
	35	33	8	122		SHORE RD	1020	1	1	0.000	
	35	33	9	122		SHORE RD	1020	1	1	0.000	
	35	33	10	122		SHORE RD	1020	1	1	0.000	
	35	33	11	122		SHORE RD	1020	1	1	0.000	
	35	34	0	2		PINE RIDGE RD	1010	1	3	0.650	
	35	35	0	4		PINE RIDGE RD	1010	1	3	0.690	
	35	36	0	28		WINDIGO LN	1010	1	4	0.550	
	35	37	0	30		WINDIGO LN	1300			0.590	
	35	38	0	32		WINDIGO LN	1010	1	3	0.780	
	35	40	0	118		SHORE RD	1010	1	3	0.780	
	35	41	0	109		SHORE RD	1010	1	1	0.600	
	35	42	0	3		PINE RIDGE RD	1300			0.800	
	35	43	0	8		PINE RIDGE RD	1010	1	3	0.950	
	35	44	0	1		PINE RIDGE END	1010	1	4	0.860	
	35	45	0	19		WINDIGO LN	1010	1	4	0.680	
	35	47	0	5		STARBUCK RD	1010	1	3	0.780	
	35	49	0	36		WINDIGO LN	1010	1	3	0.780	
	35	50	0	114		SHORE RD	1010	1	4	0.780	
	35	51	0	107		SHORE RD	1010	1	3	0.600	
	35	52	0	7		PINE RIDGE RD	1010	1	3	0.800	
	35	53	0	11		WINDIGO LN	1010	1	3	0.640	
	35	55	0	9		WINDIGO LN	1010	1	4	0.600	
	35	56	0	7		WINDIGO LN	1010	1	2	0.610	
	35	57	0	3		STARBUCK RD	1010	1	3	0.560	
	35	58	0	5		WINDIGO LN	1010	1	5	0.750	
	35	59	0	3		WINDIGO LN	1010	1	2	0.780	
	35	60	0	1		WINDIGO LN	1010	1	2	0.780	
	35	61	0	103		SHORE RD	0130	1	0	1.340	
	35	61	0	103		SHORE RD	0130	2	4	1.340	
	35	61	0	103		SHORE RD	0130	3	1	1.340	
	35	62	0	101		SHORE RD	1120	1	0	1.150	
	35	62	0	101		SHORE RD	1120	2	0	1.150	
	35	63	0	12		WINDIGO LN	1010	1	4	0.530	

	35	64	0	10		WINDIGO LN	1010	1	3	0.540
	35	65	0	8		WINDIGO LN	1010	1	2	0.580
	35	66	0	6		WINDIGO LN	1010	1	3	0.660
	35	66	0	6		WINDIGO LN	1010	2	1	0.660
	35	67	0	2		WINDIGO LN	1320			0.380
	35	68	0	104		SHORE RD	3010	1	0	2.940
	35	68	0	104		SHORE RD	3010	2	0	2.940
	35	68	0	104		SHORE RD	3010	3	1	2.940
	35	68	0	104		SHORE RD	3010	4	1	2.940
	35	68	0	104		SHORE RD	3010	5	1	2.940
	35	68	0	104		SHORE RD	3010	6	1	2.940
	35	68	0	104		SHORE RD	3010	7	4	2.940
	35	68	0	104		SHORE RD	3010	8	1	2.940
	35	68	0	104		SHORE RD	3010	9	1	2.940
	35	68	0	104		SHORE RD	3010	10	1	2.940
	35	68	0	104		SHORE RD	3010	11	1	2.940
	35	68	0	104		SHORE RD	3010	12	1	2.940
	35	68	0	104		SHORE RD	3010	13	1	2.940
	35	68	0	104		SHORE RD	3010	14	1	2.940
	35	68	0	104		SHORE RD	3010	15	1	2.940
	35	68	0	104		SHORE RD	3010	16	1	2.940
	35	68	0	104		SHORE RD	3010	17	1	2.940
	35	68	0	104		SHORE RD	3010	18	1	2.940
	35	68	0	104		SHORE RD	3010	19	1	2.940
	35	68	0	104		SHORE RD	3010	20	0	2.940
	35	69	0	7		SANDPIPER AVE	1010	1	3	1.040
	35	70	0	6		SANDPIPER AVE	1010	1	1	0.780
	35	72	0	28		PILGRIMS PATH	1010	1	5	1.420
	35	73	0	23		PILGRIMS PATH	1090	1	4	0.920
	35	73	0	23		PILGRIMS PATH	1090	2	2	0.920
	35	74	0	47		TWINE FIELD RD	1010	1	3	0.840
	35	75	0	45		TWINE FIELD RD	1010	1	3	0.920
	35	76	0	43		TWINE FIELD RD	1010	1	5	0.990
	35	77	0	41		TWINE FIELD RD	1010	1	4	0.920
	35	78	0	39		TWINE FIELD RD	1010	1	4	0.830
	35	79	0	37		TWINE FIELD RD	1010	1	4	0.790
	35	80	0	7		BAY VILLAGE RD	1300			1.070
	35	81	0	26		PILGRIMS PATH	1010	1	4	1.510
	35	82	0	24		PILGRIMS PATH	1010	1	5	1.450
	35	84	0	46		TWINE FIELD RD	1010	1	4	0.810
	35	85	0	44		TWINE FIELD RD	1010	1	5	0.910
	35	86	0	42		TWINE FIELD RD	1010	1	3	1.090
	35	87	0	40		TWINE FIELD RD	1010	1	4	0.960
	35	88	0	38		TWINE FIELD RD	1300	1	0	0.920
	35	89	0	36		TWINE FIELD RD	1010	1	3	0.820
	35	90	0	34		TWINE FIELD RD	1010	1	3	0.880
	35	90	0	34		TWINE FIELD RD	1010	2	1	0.880
	35	91	0	17		PILGRIMS PATH	1300			1.100
	35	92	0	26		TWINE FIELD RD	1010	1	4	0.990
	35	93	0	28		TWINE FIELD RD	1010	1	4	0.880
	35	94	0	30		TWINE FIELD RD	1010	1	3	1.000
	35	95	0	22		PILGRIMS PATH	1010	1	4	1.050

	35	96	0	15		PILGRIMS PATH	1010	1	4	0.870	
	35	97	0	24		TWINE FIELD RD	1010	1	5	1.010	
	35	98	0	18		POND VILLAGE AVE	1010	1	3	0.810	
	35	99	0	20		PILGRIMS PATH	1010	1	4	1.030	
	35	100	0	13		PILGRIMS PATH	1300			0.780	
	35	101	0	22		TWINE FIELD RD	1010	1	4	0.840	
	35	102	0	19		TWINE FIELD RD	1010	1	3	0.780	
	35	103	0	18		PILGRIMS PATH	1010	1	4	1.000	
	35	104	0	11		PILGRIMS PATH	1010	1	5	0.770	
	35	105	0	20		TWINE FIELD RD	1010	1	2	0.780	
	35	106	0	17		TWINE FIELD RD	1300			0.840	
	35	107	0	16		PILGRIMS PATH	1010	1	4	0.800	
	35	108	0	18		TWINE FIELD RD	1010	1	3	0.780	
	35	109	0	15		TWINE FIELD RD	1010	1	3	1.000	
	35	110	0	14		PILGRIMS PATH	1010	1	4	0.960	
	35	111	0	12		PILGRIMS PATH	1010	1	3	0.450	
	35	112	0	10		PILGRIMS PATH	1010	1	3	0.450	
	35	113	0	2		BAY FRONT LN	1010	1	5	0.780	
	35	114	0	13		TWINE FIELD RD	1300			0.810	
	35	115	0	11		TWINE FIELD RD	1010	1	3	0.800	
	35	116	0	8		PILGRIMS PATH	1010	1	3	1.010	
	35	117	0	4		PILGRIMS PATH	1010	1	4	0.920	
	35	118	0	12		TWINE FIELD RD	1010	1	5	0.780	
	35	119	0	9		TWINE FIELD RD	1010	1	3	0.780	
	35	121	0	1		PILGRIMS PATH	1320			0.110	
	35	122	0	41		POND RD	1040	1	6	1.511	
	35	123	0	8		TWINE FIELD RD	1010	1	4	0.280	
	35	125	0	6		TWINE FIELD RD	1010	1	2	0.250	
	35	127	0	2		TWINE FIELD RD	1090	1	3	0.270	
	35	127	0	2		TWINE FIELD RD	1090	2	1	0.270	
	35	129	0	0		COLD STORAGE PKG LOT	9300			0.230	
	35	130	0	6		HORTON DR	1010	1	2	0.781	
	35	132	0	4		SANDPIPER AVE	1010	1	3	0.780	
	35	133	0	5		SANDPIPER AVE	1010	1	3	0.770	
	35	134	0	2		SANDPIPER AVE	1010	1	3	0.770	
	35	135	0	3		SANDPIPER AVE	1010	1	4	0.770	
	35	136	0	1		SANDPIPER AVE	1010	1	4	0.770	
	35	137	0	1		MEREDITH WAY	1010	1	3	0.830	
	35	138	0	3		MEREDITH WAY	1010	1	3	0.900	
	35	139	0	4		FLORENCE WAY	1010	1	4	3.130	
	35	140	0	6		FLORENCE WAY	1010	1	3	2.420	
	35	141	0	8		FLORENCE WAY	1300			1.720	
	35	142	0	6		PINE RIDGE RD	1010	1	3	0.870	
	35	143	0	3		ARROWHEAD FARM RD	1010	1	2	0.960	
	35	144	0	37		KNOWLES HGTS RD	1090	1	4	1.400	
	35	144	0	37		KNOWLES HGTS RD	1090	2	1	1.400	
	35	145	0	4		STARBUCK RD	1010	1	4	1.360	
	35	146	0	47		KNOWLES HGTS RD	1010	1	4	1.050	
	35	147	0	8	A	SANDPIPER AVE	1320			0.250	
	35	148	0	2		HORTON DR	1010	1	3	0.781	
	35	149	0	4		HORTON DR	1090	1	2	0.782	
	35	149	0	4		HORTON DR	1090	2	1	0.782	

	35	149	0	4	HORTON DR	1090	3	1	0.782
	35	149	0	4	HORTON DR	1090	4	1	0.782
	35	150	0	8	HORTON DR	1060			0.918
	35	151	0	10	HORTON DR	1300			0.971
	35	152	0	9	HORTON DR	1300			1.149
	36	1	0	2	PINE RIDGE END	1010	1	3	0.770
	36	2	0	4	PINE RIDGE END	1010	1	4	0.660
	36	3	0	6	PINE RIDGE END	1010	1	3	0.660
	36	4	0	8	PINE RIDGE END	1010	1	3	0.620
	36	5	0	3	PINE RIDGE END	1010	1	3	0.760
	36	6	0	9	PINE RIDGE RD	1010	1	3	0.660
	36	7	0	456	RT 6	1010	1	3	3.010
	36	8	0	95	SHORE RD	3010	1	2	2.270
	36	8	0	95	SHORE RD	3010	2	1	2.270
	36	8	0	95	SHORE RD	3010	3	1	2.270
	36	8	0	95	SHORE RD	3010	4	1	2.270
	36	8	0	95	SHORE RD	3010	5	1	2.270
	36	8	0	95	SHORE RD	3010	6	1	2.270
	36	9	0	91	SHORE RD	3400	1	0	1.100
	36	10	0	89	SHORE RD	1010	1	2	1.930
	36	12	0	446	RT 6	1010	1	2	1.140
	36	13	0	85	SHORE RD	1010	1	4	0.460
	36	14	0	83	SHORE RD	1010	1	2	0.360
	36	15	0	81	SHORE RD	1010	1	4	0.690
	36	18	0	98	SHORE RD	1010	1	3	0.830
	36	19	0	94	SHORE RD	1010	1	2	0.500
	36	20	0	6	BAY VILLAGE RD	1010	1	5	0.920
	36	21	0	92	SHORE RD	1010	1	4	0.600
	36	22	0	31	TWINE FIELD RD	1010	1	3	0.990
	36	24	0	84	SHORE RD	1010	1	2	0.370
	36	25	0	15	POND RD	1010	1	3	1.010
	36	26	0	29	TWINE FIELD RD	1010	1	3	0.770
	36	27	1	82	SHORE RD	1020	1	4	0.000
	36	27	2	82	SHORE RD	1020	1	1	0.000
	36	27	3	82	SHORE RD	1020	1	1	0.000
	36	27	4	82	SHORE RD	1020	1	2	0.000
	36	27	5	82	SHORE RD	1020	1	2	0.000
	36	27	6	82	SHORE RD	1020	1	1	0.000
	36	27	7	82	SHORE RD	1020	1	1	0.000
	36	27	8	82	SHORE RD	1020	1	2	0.000
	36	27	9	82	SHORE RD	1020	1	1	0.000
	36	27	10	82	SHORE RD	1020	1	1	0.000
	36	27	11	82	SHORE RD	1020	1	1	0.000
	36	27	12	82	SHORE RD	1020	1	1	0.000
	36	28	0	32	TWINE FIELD RD	1010	1	4	0.870
	36	29	0	27	TWINE FIELD RD	1010	1	4	1.060
	36	29	0	27	TWINE FIELD RD	1010	2	0	1.060
	36	30	0	80	SHORE RD	1010	1	3	1.650
	36	31	0	25	TWINE FIELD RD	1300			1.420
	36	32	0	15	PILGRIM POND RD	1010	1	3	0.870
	36	33	0	17	POND VILLAGE AVE	1010	1	3	0.830
	36	34	0	15	POND VILLAGE AVE	1010	1	5	0.940

	36	35	0	25	A	POND RD	1300			3.940	
	36	36	0	14		POND VILLAGE AVE	1010	1	4	1.080	
	36	37	0	13		POND VILLAGE AVE	1010	1	4	1.260	
	36	38	0	7		PILGRIM POND RD	1300			0.830	
	36	39	0	25		POND RD	1010	1	1	6.240	
	36	40	0	12		POND VILLAGE AVE	1300			0.920	
	36	41	0	21		POND RD	1010	1	3	0.760	
	36	42	0	23		POND RD	1010	1	4	0.920	
	36	43	0	10		POND VILLAGE AVE	1010	1	2	0.920	
	36	44	0	19		POND RD	1090	1	3	0.770	
	36	44	0	19		POND RD	1090	2	1	0.770	
	36	45	0	17		POND RD	3510	1	0	0.230	
	36	46	0	7		TWINE FIELD RD	1010	1	4	0.780	
	36	47	0	33		POND RD	1010	1	5	0.960	
	36	48	0	1		POND VILLAGE AVE	9300			0.820	
	36	49	0	27		POND RD	1010	1	2	0.270	
	36	50	0	5		TWINE FIELD RD	1010	1	4	0.810	
	36	51	0	35		POND RD	1090	1	2	1.000	
	36	51	0	35		POND RD	1090	2	1	1.000	
	36	53	0	37		POND RD	1010	1	2	0.290	
	36	55	0	24		POND RD	3610	1	0	0.196	
	36	56	0	22		POND RD	1320			0.270	
	36	57	0	0		POND RD	9300			0.460	
	36	58	0	18		POND RD	1010	1	1	0.190	
	36	59	0	0		POND RD	9500			0.360	
	36	60	0	14		POND RD	1010	1	3	0.280	
	36	61	0	12		POND RD	1010	1	1	0.280	
	36	62	0	0		POND RD	9500			0.560	
	36	64	0	71		SHORE RD	1010	1	4	1.470	
	36	70	0	69		SHORE RD	4240			0.250	
	36	71	0	67		SHORE RD	3900			0.440	
	36	75	0	7		STANDISH WAY	9310	1	0	10.660	
	36	75	0	7		STANDISH WAY	9310	2	0	10.660	
	36	76	0	15		OLD FIREHOUSE RD	9300			0.070	
	36	78	0	63		SHORE RD	0310	1	0	2.400	
	36	78	0	63		SHORE RD	0310	2	3	2.400	
	36	78	0	63		SHORE RD	0310	3	1	2.400	
	36	78	0	63		SHORE RD	0310	4	1	2.400	
	36	79	0	13		OLD FIREHOUSE RD	9300			0.090	
	36	80	0	11		OLD FIREHOUSE RD	1010	1	1	0.290	
	36	81	0	61		SHORE RD	1090	1	5	0.690	
	36	81	0	61		SHORE RD	1090	2	1	0.690	
	36	82	0	59		SHORE RD	1010	1	2	0.500	
	36	83	0	9		OLD FIREHOUSE RD	1010	1	2	0.570	
	36	84	0	57		SHORE RD	1010	1	3	0.420	
	36	86	0	7		OLD FIREHOUSE RD	1010	1	2	0.240	
	36	87	0	55		SHORE RD	1040	1	7	0.500	
	36	88	0	5		OLD FIREHOUSE RD	1010	1	2	0.230	
	36	89	0	8		HIGHLAND RD	0130	1	0	0.350	
	36	90	0	53		SHORE RD	1040	1	4	0.590	
	36	91	0	6		HIGHLAND RD	0310	1	3	0.550	
	36	91	0	6		HIGHLAND RD	0310	2	0	0.550	

	36	92	0	49		SHORE RD	1040	1	4	0.090
	36	93	A	4		HIGHLAND RD	1020	1	2	0.000
	36	93	B	4		HIGHLAND RD	1020	1	1	0.000
	36	93	C	4		HIGHLAND RD	1020	1	2	0.000
	36	93	D	4		HIGHLAND RD	3430	1	0	0.000
	36	94	0	78		SHORE RD	1010	1	2	1.170
	36	95	0	76		SHORE RD	1010	1	2	0.890
	36	96	0	2		POND VILLAGE HGTS RD	1010	1	4	0.670
	36	97	0	72		SHORE RD	1010	1	3	0.240
	36	98	0	5		POND VILLAGE HGTS RD	1010	1	4	0.570
	36	99	0	6		POND VILLAGE HGTS RD	1010	1	2	0.560
	36	100	0	70		SHORE RD	1010	1	4	0.160
	36	101	0	7		POND VILLAGE HGTS RD	1010	1	3	1.050
	36	102	0	8		POND VILLAGE HGTS RD	1010	1	2	0.600
	36	103	0	68		SHORE RD	1010	1	5	0.180
	36	105	0	11		POND VILLAGE HGTS RD	1010	1	3	0.740
	36	106	0	9		POND VILLAGE HGTS RD	1010	1	3	0.865
	36	107	0	10		POND VILLAGE HGTS RD	1010	1	3	0.630
	36	108	0	66		SHORE RD	1010	1	3	0.200
	36	109	0	64		SHORE RD	1010	1	3	0.190
	36	110	0	12		POND VILLAGE HGTS RD	1010	1	3	0.600
	36	111	0	62		SHORE RD	1010	1	2	0.130
	36	112	0	60		SHORE RD	1010	1	2	0.460
	36	113	0	58		SHORE RD	1040	1	2	0.100
	36	114	0	13		POND RD	1040	1	4	0.730
	36	115	0	11		POND RD	1010	1	2	0.780
	36	116	0	56		SHORE RD	9300			0.500
	36	117	0	9		POND RD	3020	1	0	0.560
	36	118	0	7		POND RD	1040	1	6	0.900
	36	119	0	5		POND RD	1010	1	4	0.290
	36	120	0	52		SHORE RD	0310	1	0	0.250
	36	122	0	8		POND RD	1300			0.500
	36	123	0	6		POND RD	1300			0.560
	36	124	0	4		POND RD	1090	1	2	0.600
	36	124	0	4		POND RD	1090	2	2	0.600
	36	124	0	4		POND RD	1090	3	2	0.600
	36	125	0	2		POND RD	1040	1	4	0.530
	36	126	0	48		SHORE RD	1040	1	5	0.690
	36	126	0	48		SHORE RD	1040	2	1	0.690
	36	127	0	46		SHORE RD	0130	1	4	0.290
	36	128	0	42		SHORE RD	1090	1	2	0.850
	36	128	0	42		SHORE RD	1090	2	2	0.850
	36	129	0	38		SHORE RD	3400	1	0	0.370
	36	130	0	36		SHORE RD	9310	1	0	0.730
	36	131	0	34		SHORE RD	1010	1	2	0.640
	36	132	0	32		SHORE RD	9600	1	0	0.500
	36	133	0	3		FRANCIS RD	1320			0.550
	36	134	0	9		HIGHLAND RD	1010	1	2	0.870
	36	137	0	4		PROFESSIONAL HGTS RD	1010	1	3	0.530
	36	138	1	6		PROFESSIONAL HGTS RD	1020	1	3	0.000
	36	138	2	6		PROFESSIONAL HGTS RD	1020	1	1	0.000
	36	139	0	10		PROFESSIONAL HGTS RD	1010	1	1	0.540

	36	140	0	408		RT 6	0310	1	0	0.640
	36	141	0	1		HIGHLAND RD	3160	1	0	1.099
	36	141	0	1		HIGHLAND RD	3160	2	0	1.099
	36	142	0	41		SHORE RD	1090	1	1	0.920
	36	142	0	41		SHORE RD	1090	2	1	0.920
	36	143	0	39		SHORE RD	1090	1	4	0.870
	36	143	0	39		SHORE RD	1090	2	1	0.870
	36	144	0	3		PROFESSIONAL HGTS RD	1060			0.520
	36	145	0	7		PROFESSIONAL HGTS RD	1010	1	2	0.520
	36	146	0	12		PROFESSIONAL HGTS RD	1010	1	4	0.520
	36	147	0	33		SHORE RD	1010	1	4	2.900
	36	148	0	43		SHORE RD	1010	1	4	0.460
	36	149	0	37		SHORE RD	1010	1	5	0.520
	36	150	0	9		PROFESSIONAL HGTS RD	1040	1	4	0.550
	36	151	0	31		SHORE RD	1010	1	4	1.100
	36	152	0	29		SHORE RD	1090	1	2	0.690
	36	152	0	29		SHORE RD	1090	2	1	0.690
	36	153	0	6		CHURCH WAY	1010	1	2	0.700
	36	154	0	10		CHURCH WAY	1010	1	3	0.560
	36	155	0	394		RT 6	1040	1	5	3.070
	36	156	0	27		SHORE RD	9600	1	0	0.090
	36	157	0	25		SHORE RD	1090	1	3	0.550
	36	157	0	25		SHORE RD	1090	2	3	0.550
	36	159	0	4	B	BAY VIEW RD	9300			0.460
	36	160	0	4	C	BAY VIEW RD	1320			0.370
	36	161	0	4	D	BAY VIEW RD	1320			0.920
	36	162	0	4	E	BAY VIEW RD	1320			1.930
	36	163	0	4	F	BAY VIEW RD	1320			0.690
	36	164	0	48	A	SHORE RD	1320			1.290
	36	165	0	4	G	BAY VIEW RD	1320			1.840
	36	166	0	40		SHORE RD	1320			0.830
	36	167	0	5		FRANCIS RD	1320			2.570
	36	168	0	11		PILGRIM POND RD	1010	1	3	0.870
	36	169	0	435		RT 6	3330	1	0	1.050
	36	170	0	423		RT 6	1010	1	2	3.091
	36	171	0	32		HIGHLAND RD	1010	1	2	1.440
	36	172	0	40		HIGHLAND RD	1010	1	3	3.060
	36	173	0	44		HIGHLAND RD	1300			1.420
	36	174	0	46		HIGHLAND RD	3860	1	0	18.680
	36	174	0	46		HIGHLAND RD	3860	2	0	18.680
	36	174	0	46		HIGHLAND RD	3860	3	0	18.680
	36	175	0	48		HIGHLAND RD	1040	1	7	3.070
	36	176	0	54		HIGHLAND RD	1010	1	4	0.550
	36	177	0	53		HIGHLAND RD	1010	1	3	0.460
	36	178	0	24		HIGHLAND RD	1010	1	3	0.320
	36	179	0	30		HIGHLAND RD	1010	1	1	0.180
	36	180	0	26		HIGHLAND RD	1010	1	3	0.320
	36	181	0	28		HIGHLAND RD	1010	1	2	0.640
	36	182	0	42		HIGHLAND RD	1010	1	3	1.470
	36	183	0	41		HIGHLAND RD	1010	1	2	5.300
	36	184	0	37		HIGHLAND RD	1010	1	1	1.800
	36	185	0	49		HIGHLAND RD	1010	1	5	0.730

	36	186	0	0		RT 6	9000			2.300
	36	187	0	3		POND RD	1010	1	4	0.480
	36	188	0	26		POND RD	1010	1	2	0.430
	36	189	0	8		CHURCH WAY	1060			0.650
	36	190	0	2		HIGHLAND RD	0310	1	0	0.180
	36	191	0	9		FRANCIS RD	1090	1	2	0.280
	36	191	0	9		FRANCIS RD	1090	2	3	0.280
	36	193	0	2		STANDISH WAY	1040	1	2	1.170
	36	194	0	8		POND VILLAGE AVE	1010	1	3	0.810
	36	197	0	6		POND VILLAGE AVE	1300			0.950
	36	198	0	4		POND VILLAGE AVE	1300			0.890
	36	199	0	2		BAY VILLAGE RD	1040	1	6	0.990
	36	200	0	4		BAY VILLAGE RD	1010	1	3	0.980
	36	201	0	5		HIGHLAND RD	3160	1	0	0.780
	36	202	0	0		SHORE RD	9300			0.010
	36	203	0	444		RT 6	1300			0.780
	36	204	0	8		STANDISH WAY	1010	1	3	1.150
	36	205	0	6		STANDISH WAY	1010	1	2	0.780
	36	206	0	4		STANDISH WAY	1010	1	3	0.780
	36	208	0	0		POND RD	9500			7.170
	36	209	0	3		PILGRIM POND RD	1300			0.830
	36	210	0	86		SHORE RD	1110	1	2	0.800
	36	210	0	86		SHORE RD	1110	2	2	0.800
	36	210	0	86		SHORE RD	1110	3	2	0.800
	36	211	0	2		AMANDA LN	1110	1	2	0.780
	36	211	0	2		AMANDA LN	1110	2	2	0.780
	36	211	0	2		AMANDA LN	1110	3	2	0.780
	36	211	0	2		AMANDA LN	1110	4	2	0.780
	36	211	0	2		AMANDA LN	1110	5	3	0.780
	36	212	0	1		AMANDA LN	1120	1	0	0.800
	36	212	0	1		AMANDA LN	1120	2	0	0.800
	36	212	0	1		AMANDA LN	1120	3	3	0.800
	36	213	0	3		AMANDA LN	1010	1	4	0.820
	36	214	0	5		AMANDA LN	1010	1	4	0.750
	36	215	0	7		AMANDA LN	1010	1	3	3.130
	36	216	0	8		OLD FIREHOUSE RD	1010	1	4	0.780
	36	217	0	10		OLD FIREHOUSE RD	1010	1	3	0.780
	36	218	0	12		OLD FIREHOUSE RD	1010	1	3	0.800
	36	219	0	1		LAMBROU LN	1300			0.920
	36	220	0	3		LAMBROU LN	1010	1	4	0.990
	36	221	0	2		LAMBROU LN	1010	1	4	0.920
	36	222	0	35	A	POND RD	9300			0.010
	36	223	0	2		HD OF MEADOW RD	3400	1	0	0.560
	36	224	0	14		OLD FIREHOUSE RD	9310	1	3	0.780
	36	225	0	24	A	POND RD	1320			0.360
	36	227	0	5	A	AMANDA LN	1320			0.070
	36	228	0	2		YELLOW BRICK RD	1300			0.919
	36	229	0	4		YELLOW BRICK RD	1300			0.775
	36	230	0	6		YELLOW BRICK RD	1010	1	2	0.775
	36	231	0	8		YELLOW BRICK RD	1010	1	3	0.775
	36	232	0	10		YELLOW BRICK RD	1300			0.918
	36	233	0	12		YELLOW BRICK RD	1300			0.919

	36	234	0	14		YELLOW BRICK RD	1300			0.775	
	36	235	0	13		YELLOW BRICK RD	1300			0.931	
	36	236	0	5		YELLOW BRICK RD	1300			0.931	
	36	237	0	1		YELLOW BRICK RD	1300			0.919	
	37	1	0	72		HIGHLAND RD	1010	1	3	3.670	
	37	2	0	8		COAST GUARD RD	1010	1	3	2.950	
	37	3	0	68		HIGHLAND RD	1010	1	2	1.140	
	37	4	0	64		HIGHLAND RD	1010	1	2	2.140	
	37	5	0	6		OCEAN BLUFF LN	1090	1	2	0.690	
	37	5	0	6		OCEAN BLUFF LN	1090	2	2	0.690	
	37	6	0	12		OCEAN BLUFF LN	1010	1	2	2.570	
	37	7	0	0		HIGHLAND LIGHT RD	9000			6.470	
	37	8	0	63		HIGHLAND RD	1010	1	4	0.690	
	37	9	0	90		SO HIGHLAND RD	1010	1	5	0.480	
	37	10	0	84		SO HIGHLAND RD	1010	1	2	4.720	
	37	10	0	84		SO HIGHLAND RD	1010	2	4	4.720	
	37	11	0	15		HIGHLAND LIGHT RD	9000	1	3	0.220	
	37	12	0	0		HIGHLAND LIGHT RD	9000			0.210	
	37	13	0	11		HIGHLAND LIGHT RD	1010	1	3	0.210	
	37	14	0	7		HIGHLAND LIGHT RD	1010	1	3	0.210	
	37	15	0	67		SO HIGHLAND RD	3860	1	3	32.220	
	37	15	0	67		SO HIGHLAND RD	3860	2	0	32.220	
	37	15	0	67		SO HIGHLAND RD	3860	3	0	32.220	
	37	15	0	67		SO HIGHLAND RD	3860	4	0	32.220	
	37	15	0	67		SO HIGHLAND RD	3860	5	0	32.220	
	37	15	0	67		SO HIGHLAND RD	3860	6	0	32.220	
	37	16	0	0		SO HIGHLAND RD	9000			0.230	
	37	17	0	40		SO HIGHLAND RD	1010	1	2	7.252	
	37	18	0	0		SO HOLLOW RD	9000			8.570	
	37	19	0	10		OLD DEWLINE RD	3860	1	0	7.110	
	37	19	0	10		OLD DEWLINE RD	3860	2	0	7.110	
	37	19	0	10		OLD DEWLINE RD	3860	3	0	7.110	
	37	20	0	0		OLD DEWLINE RD - END	9000	1	0	124.300	
	37	21	0	86		SO HIGHLAND RD	9000	1	1	0.700	
	37	22	0	10		HIGHLAND LIGHT RD	9000	1	0	32.000	
	37	22	0	10		HIGHLAND LIGHT RD	9000	2	0	32.000	
	37	22	0	10		HIGHLAND LIGHT RD	9000	3	0	32.000	
	38	1	0	43		POND RD	1010	1	3	0.670	
	38	2	0	45		POND RD	1320			0.030	
	38	3	0	49		POND RD	9300			0.530	
	38	4	0	47		POND RD	1010	1	1	0.100	
	38	6	0	55		POND RD	1090	1	1	0.120	
	38	6	0	55		POND RD	1090	2	1	0.120	
	38	7	0	51		POND RD	1320			0.010	
	39	1	0	0		COLD STORAGE PKG LOT	9300			0.550	
	39	2	0	1		BAY VIEW RD	9300			0.180	
	39	3	0	0		POND RD	9500			0.140	
	39	4	0	3		BAY VIEW RD	1300			1.560	
	39	5	0	2		BAY VIEW DR	1010	1	3	0.700	
	39	6	0	4		BAY VIEW DR	1010	1	4	0.700	
	39	7	0	6		BAY VIEW DR	1010	1	6	0.770	
	39	8	0	8		BAY VIEW DR	1010	1	5	0.670	

	39	9	0	10		BAY VIEW DR	1040	1	3	1.440
	39	10	0	34		POND RD	1300			0.930
	39	12	0	8		BAY VIEW RD	1090	1	10	1.940
	39	12	0	8		BAY VIEW RD	1090	2	2	1.940
	39	13	0	5		BAY VIEW DR	1010	1	3	0.530
	39	14	0	12		BAY VIEW DR	1010	1	3	0.600
	39	15	0	38		POND RD	1010	1	4	0.700
	39	16	0	7		BAY VIEW RD	1090	1	3	0.960
	39	16	0	7		BAY VIEW RD	1090	2	1	0.960
	39	17	0	10		BAY VIEW RD	1010	1	3	0.590
	39	18	0	9		BAY VIEW DR	1010	1	2	0.570
	39	19	0	14		BAY VIEW DR	1010	1	3	0.550
	39	20	0	8		BAY VIEW PATH	1010	1	3	1.030
	39	20	0	8		BAY VIEW PATH	1010	2	1	1.030
	39	21	0	9		BAY VIEW RD	1090	1	3	0.320
	39	21	0	9		BAY VIEW RD	1090	2	1	0.320
	39	21	0	9		BAY VIEW RD	1090	3	2	0.320
	39	22	0	6		BAY VIEW PATH	1090	1	3	0.810
	39	22	0	6		BAY VIEW PATH	1090	2	3	0.810
	39	23	0	11		BAY VIEW RD	1010	1	2	0.320
	39	24	0	14		BAY VIEW RD	1010	1	4	0.410
	39	25	0	11		BAY VIEW DR	1010	1	2	0.505
	39	26	0	16		BAY VIEW DR	1010	1	2	0.600
	39	27	0	6	A	BAY VIEW PATH	1300			0.310
	39	28	0	4		BAY VIEW PATH	1090	1	3	0.920
	39	28	0	4		BAY VIEW PATH	1090	2	0	0.920
	39	29	0	3		BAY VIEW PATH	1010	1	2	0.520
	39	30	0	13		BAY VIEW RD	1010	1	3	0.530
	39	31	0	4		PAINES WAY	1010	1	3	1.340
	39	32	0	13		BAY VIEW DR	1010	1	5	0.530
	39	33	0	18		BAY VIEW DR	1040	1	4	0.530
	39	34	0	2		BAY VIEW PATH	1010	1	5	1.190
	39	35	0	19		BAY VIEW RD	1010	1	3	0.750
	39	36	0	1		MERRYFIELD PATH	1010	1	4	1.070
	39	40	0	20		BAY VIEW RD	1010	1	3	0.610
	39	41	0	22		BAY VIEW RD	1010	1	6	1.280
	39	42	0	17		BAY VIEW DR	1010	1	3	0.690
	39	43	0	20		BAY VIEW DR	1010	1	2	0.530
	39	44	0	22		BAY VIEW DR	1010	1	2	0.760
	39	45	0	25		BAY VIEW RD	1010	1	6	0.920
	39	46	0	24		BAY VIEW RD	1010	1	4	0.640
	39	47	0	4		BAY VIEW WAY	1010	1	2	0.960
	39	49	0	2		BAY VIEW WAY	1010	1	4	0.640
	39	50	0	29		BAY VIEW RD	1090	1	3	0.930
	39	50	0	29		BAY VIEW RD	1090	2	1	0.930
	39	51	0	31		BAY VIEW RD	1010	1	3	2.030
	39	52	0	28		BAY VIEW RD	9500			1.030
	39	53	0	27		PRIEST RD	1010	1	3	1.380
	39	54	0	25		PRIEST RD	1010	1	4	1.380
	39	55	0	23		PRIEST RD	1010	1	3	1.380
	39	56	0	21		PRIEST RD	1010	1	3	1.370
	39	56	0	21		PRIEST RD	1010	2	2	1.370

	39	57	0	35		BAY VIEW RD	1010	1	5	1.120	
	39	58	0	30		BAY VIEW RD	1300			1.030	
	39	59	0	37		BAY VIEW RD	1010	1	2	0.710	
	39	60	0	32		BAY VIEW RD	1300			0.370	
	39	61	0	28		PRIEST RD	1010	1	2	0.440	
	39	62	0	26		PRIEST RD	1010	1	3	0.530	
	39	63	0	22		PRIEST RD	1300			0.620	
	39	64	0	18		PRIEST RD	1010	1	1	0.840	
	39	65	0	39		BAY VIEW RD	1010	1	4	0.590	
	39	66	0	34		BAY VIEW RD	1010	1	3	0.390	
	39	67	0	41		BAY VIEW RD	1010	1	4	0.920	
	39	68	0	36		BAY VIEW RD	1010	1	3	0.420	
	39	69	0	28	A	PRIEST RD	1300			0.230	
	39	70	0	24		PRIEST RD	1010	1	4	0.550	
	39	71	0	5		AVOCET RD	1060			0.490	
	39	77	0	4	H	BAY VIEW RD	1300			6.420	
	39	78	0	7		SAGE RIDGE RD	1300			12.410	
	39	79	0	11		FRANCIS RD	1010	1	3	0.640	
	39	80	0	13		FRANCIS RD	1010	1	3	0.500	
	39	81	0	2		SAGE RIDGE RD	1010	1	4	0.780	
	39	82	0	4		HUTCHINGS LN	1010	1	3	0.200	
	39	83	0	24		HUGHES RD	1010	1	3	0.320	
	39	84	0	6		FRANCIS RD	1010	1	2	1.002	
	39	85	0	22		HUGHES RD	1010	1	3	0.690	
	39	87	0	16		HUGHES RD	1010	1	3	1.960	
	39	88	0	19		PRIEST RD	1300			1.370	
	39	89	0	17		PRIEST RD	1010	1	3	1.340	
	39	90	0	15		PRIEST RD	1010	1	4	1.290	
	39	91	0	13		PRIEST RD	1010	1	3	1.230	
	39	92	0	11		PRIEST RD	1010	1	3	1.010	
	39	93	0	9		PRIEST RD	1010	1	3	0.900	
	39	94	0	7		PRIEST RD	1010	1	3	0.730	
	39	95	0	5		PRIEST RD	1090	1	1	0.920	
	39	95	0	5		PRIEST RD	1090	2	1	0.920	
	39	96	0	3		PRIEST RD	1010	1	2	0.860	
	39	97	0	1		PRIEST RD	1010	1	3	0.890	
	39	98	0	1		AVOCET RD	1010	1	3	0.830	
	39	99	0	2		AVOCET RD	1010	1	3	0.790	
	39	100	0	3		AVOCET RD	1010	1	3	0.850	
	39	101	0	12		PRIEST RD	1010	1	2	0.680	
	39	102	0	10		PRIEST RD	1010	1	3	1.470	
	39	103	0	8		PRIEST RD	1300			0.780	
	39	104	0	6		PRIEST RD	1010	1	2	1.030	
	39	105	0	4		PRIEST RD	1010	1	3	0.780	
	39	107	0	2		SAND PIT RD	4100	1	0	38.730	
	39	107	0	2		SAND PIT RD	4100	2	0	38.730	
	39	108	0	9		NOONS DR	1300			17.200	
	39	109	0	0		BAY VIEW RD	1320			0.070	
	39	110	0	3		AMBER WAY	1010	1	3	1.570	
	39	111	0	16		TURNSTONE RD	1010	1	4	1.880	
	39	112	0	18		TURNSTONE RD	1010	1	3	1.490	
	39	113	0	24		TURNSTONE RD	1010	1	3	3.270	

	39	114	0	22		TURNSTONE RD	1010	1	3	1.270	
	39	115	0	21		TURNSTONE RD	1010	1	4	1.250	
	39	116	0	19		TURNSTONE RD	1010	1	5	1.020	
	39	117	0	13		TURNSTONE RD	1010	1	3	0.940	
	39	118	0	7		TURNSTONE RD	1010	1	4	1.060	
	39	119	0	5		TURNSTONE RD	1010	1	4	0.880	
	39	120	0	10		TURNSTONE RD	1010	1	3	0.890	
	39	121	0	4		TURNSTONE RD	1300			0.950	
	39	122	0	8		SCHARDT WAY	1010	1	6	3.700	
	39	123	0	7		SCHARDT WAY	1010	1	2	1.760	
	39	125	0	19		NOONS DR	1010	1	2	0.700	
	39	127	0	23		SHORE RD	1010	1	3	0.440	
	39	128	0	21		SHORE RD	1010	1	3	0.540	
	39	129	0	2		CARDINAL LN	1090	1	3	1.380	
	39	129	0	2		CARDINAL LN	1090	2	1	1.380	
	39	130	0	3		CARDINAL LN	1010	1	2	0.700	
	39	132	0	30		SHORE RD	1010	1	3	0.290	
	39	133	0	28		SHORE RD	1010	1	2	0.640	
	39	134	0	26		SHORE RD	0310	1	0	0.830	
	39	135	1	17		SHORE RD	1020	1	1	0.000	
	39	135	2	17		SHORE RD	1020	1	1	0.000	
	39	135	3	17		SHORE RD	1020	1	1	0.000	
	39	135	4	17		SHORE RD	1020	1	1	0.000	
	39	135	5	17		SHORE RD	1020	1	1	0.000	
	39	135	6	17		SHORE RD	1020	1	1	0.000	
	39	135	7	17		SHORE RD	1020	1	1	0.000	
	39	135	8	17		SHORE RD	1020	1	1	0.000	
	39	135	9	17		SHORE RD	1020	1	1	0.000	
	39	135	10	17		SHORE RD	1020	1	3	0.000	
	39	136	0	15		SHORE RD	1010	1	3	0.370	
	39	137	0	11		SHORE RD	0310	1	0	6.012	
	39	137	0	11		SHORE RD	0310	2	0	6.012	
	39	138	0	24		SHORE RD	1110	1	0	0.600	
	39	138	0	24		SHORE RD	1110	2	2	0.600	
	39	139	0	22		SHORE RD	0130	1	4	0.760	
	39	139	0	22		SHORE RD	0130	2	1	0.760	
	39	139	0	22		SHORE RD	0130	3	1	0.760	
	39	139	0	22		SHORE RD	0130	4	1	0.760	
	39	139	0	22		SHORE RD	0130	5	2	0.760	
	39	140	0	13		HUGHES RD	1040	1	4	0.780	
	39	141	0	3		ANNIE MAY WAY	1010	1	3	0.880	
	39	142	1	11		HUGHES RD	1020	1	1	0.000	
	39	142	2	11		HUGHES RD	1020	1	1	0.000	
	39	142	3	11		HUGHES RD	1020	1	2	0.000	
	39	142	4	11		HUGHES RD	3430	1	5	0.000	
	39	143	0	3		HUGHES RD	1010	1	5	2.610	
	39	144	0	16		SHORE RD	1090	1	4	0.890	
	39	144	0	16		SHORE RD	1090	2	1	0.890	
	39	145	0	5		SHORE RD	1010	1	3	1.460	
	39	146	0	7		HUGHES RD	1010	1	2	0.230	
	39	146	0	7		HUGHES RD	1010	2	1	0.230	
	39	147	0	10		HUGHES RD	1010	1	3	0.780	

	39	148	0	6		HUGHES RD	1090	1	3	2.480
	39	148	0	6		HUGHES RD	1090	2	1	2.480
	39	149	0	4		HUGHES RD	1050	1	4	1.270
	39	150	0	12		SHORE RD	1090	1	2	1.219
	39	150	0	12		SHORE RD	1090	2	3	1.219
	39	151	0	10		SHORE RD	1090	1	4	0.470
	39	151	0	10		SHORE RD	1090	2	2	0.470
	39	152	0	374		RT 6	9320			0.270
	39	153	0	17		PETERS POND RD	1010	1	2	0.600
	39	154	0	7		PETERS POND RD	1010	1	3	1.190
	39	155	1	6		SHORE RD	1020	1	1	0.000
	39	155	2	6		SHORE RD	1020	1	1	0.000
	39	155	3	6		SHORE RD	1020	1	1	0.000
	39	155	4	6		SHORE RD	1020	1	1	0.000
	39	155	5	6		SHORE RD	1020	1	2	0.000
	39	155	6	6		SHORE RD	1020	1	1	0.000
	39	155	7	6		SHORE RD	1020	1	1	0.000
	39	155	8	6		SHORE RD	1020	1	1	0.000
	39	155	9	6		SHORE RD	1020	1	1	0.000
	39	155	10	6		SHORE RD	1020	1	1	0.000
	39	155	12	6		SHORE RD	1020	1	1	0.000
	39	155	13	6		SHORE RD	1020	1	1	0.000
	39	155	14	6		SHORE RD	1020	1	1	0.000
	39	155	15	6		SHORE RD	1020	1	1	0.000
	39	155	16	6		SHORE RD	1020	1	1	0.000
	39	155	17	6		SHORE RD	1020	1	1	0.000
	39	155	18	6		SHORE RD	1020	1	1	0.000
	39	155	19	6		SHORE RD	1020	1	1	0.000
	39	155	20	6		SHORE RD	1020	1	1	0.000
	39	155	21	6		SHORE RD	1020	1	1	0.000
	39	155	22	6		SHORE RD	1020	1	1	0.000
	39	155	23	6		SHORE RD	1020	1	1	0.000
	39	155	24	6		SHORE RD	1020	1	1	0.000
	39	155	25	6		SHORE RD	1020	1	1	0.000
	39	155	26	6		SHORE RD	1020	1	2	0.000
	39	155	27	6		SHORE RD	1020	1	2	0.000
	39	155	28	6		SHORE RD	1020	1	2	0.000
	39	155	29	6		SHORE RD	1020	1	2	0.000
	39	156	0	16		PETERS POND RD	1090	1	2	0.870
	39	156	0	16		PETERS POND RD	1090	2	1	0.870
	39	157	0	13		PETERS POND RD	1010	1	3	0.890
	39	158	0	9		PETERS POND RD	1010	1	2	0.910
	39	159	0	4		SHORE RD	9240			0.380
	39	160	0	14		PETERS POND RD	1300			0.410
	39	161	0	12		PETERS POND RD	1010	1	4	0.540
	39	162	0	10		PETERS POND RD	1010	1	2	0.560
	39	163	0	364		RT 6	3010	1	0	3.030
	39	163	0	364		RT 6	3010	2	0	3.030
	39	164	0	1		SAND PIT RD	3160	1	0	4.150
	39	166	0	1		NOONS HGTS RD	3250	1	0	4.430
	39	166	0	1		NOONS HGTS RD	3250	2	0	4.430
	39	166	0	1		NOONS HGTS RD	3250	3	0	4.430

	39	167	0	352		RT 6	3160	1	0	3.500
	39	167	0	352		RT 6	3160	2	0	3.500
	39	167	0	352		RT 6	3160	3	0	3.500
	39	168	0	350		RT 6	3410	1	0	1.010
	39	169	0	346		RT 6	3160	1	0	1.740
	39	169	0	346		RT 6	3160	2	0	1.740
	39	171	0	7		PARKER DR	0130	1	3	1.940
	39	171	0	7		PARKER DR	0130	2	2	1.940
	39	171	0	7		PARKER DR	0130	3	2	1.940
	39	171	0	7		PARKER DR	0130	4	2	1.940
	39	172	0	344		RT 6	9350	1	0	4.052
	39	172	A	344		RT 6	4310			0.000
	39	173	0	11		PARKER DR	1010	1	3	0.790
	39	174	0	13		PARKER DR	1010	1	2	0.780
	39	175	0	1		FISHERMANS RD	1010	1	6	1.480
	39	176	0	2		SO HOLLOW RD	9800			8.900
	39	177	0	10		SO HOLLOW RD	1010	1	2	0.457
	39	178	0	12		SO HOLLOW RD	1010	1	2	0.456
	39	179	0	14		SO HOLLOW RD	9800			0.460
	39	180	0	11		SO HOLLOW RD	9850			6.040
	39	181	0	9		SO HOLLOW RD	9850	1	0	14.880
	39	181	0	9		SO HOLLOW RD	9850	2	0	14.880
	39	182	0	2		CLARKS RD	9800			2.660
	39	183	0	11		CLARKS RD	9800			0.810
	39	184	0	9		CLARKS RD	9850	1	2	0.760
	39	187	0	10		ALDRICH RD	1010	1	3	2.000
	39	189	0	0		RT 6	9300			5.600
	39	190	0	1		FRIENDSHIP WAY	1010	1	2	1.000
	39	192	0	5		FRIENDSHIP WAY	1010	1	3	1.370
	39	193	0	7		FRIENDSHIP WAY	1300			0.640
	39	194	0	8		SO HIGHLAND RD	1010	1	3	0.500
	39	195	0	6		SO HIGHLAND RD	1010	1	3	0.500
	39	196	0	4		SO HIGHLAND RD	1090	1	1	1.000
	39	196	0	4		SO HIGHLAND RD	1090	2	1	1.000
	39	196	0	4		SO HIGHLAND RD	1090	3	1	1.000
	39	197	0	2		SO HIGHLAND RD	1010	1	2	1.000
	39	198	0	9		SO HIGHLAND RD	1010	1	4	0.540
	39	199	0	8		ALDEN LN	1090	1	3	0.780
	39	199	0	8		ALDEN LN	1090	2	2	0.780
	39	200	0	1		SO HIGHLAND WAY	1010	1	3	0.770
	39	201	0	4		BAY VIEW RD	1320			0.690
	39	202	0	4	A	BAY VIEW RD	1320			0.320
	39	203	0	10		PARKER DR	1010	1	3	1.140
	39	204	0	12		PARKER DR	1010	1	3	1.190
	39	205	0	7		AVOCET RD	1010	1	4	0.830
	39	206	0	9		AVOCET RD	1010	1	5	0.920
	39	207	0	11		AVOCET RD	1010	1	6	1.000
	39	208	0	1		TURNSTONE RD	1010	1	4	0.980
	39	209	0	6		AVOCET RD	1010	1	3	0.890
	39	210	0	8		AVOCET RD	1010	1	2	0.800
	39	211	0	10		AVOCET RD	1010	1	3	0.950
	39	212	0	12		AVOCET RD	1010	1	4	0.830

	39	213	0	4		DRUNLIN LN	1010	1	4	1.080	
	39	214	0	3		DRUNLIN LN	1010	1	6	0.790	
	39	215	0	1		DRUNLIN LN	1010	1	4	0.780	
	39	216	0	16		AVOCET RD	1010	1	4	0.780	
	39	217	0	17		AVOCET RD	1010	1	3	0.800	
	39	218	0	19		AVOCET RD	1010	1	3	1.560	
	39	219	0	13		AVOCET RD	1010	1	5	0.920	
	39	220	0	4		HERON LN	1010	1	5	1.050	
	39	221	0	2		HERON LN	1010	1	4	1.060	
	39	222	0	15		AVOCET RD	1010	1	4	1.050	
	39	223	0	4		AMBER WAY	1010	1	2	0.790	
	39	224	0	6		AMBER WAY	1010	1	3	0.810	
	39	225	0	5		AMBER WAY	1010	1	3	0.960	
	39	228	0	16		BAY VIEW RD	1010	1	4	0.800	
	39	229	0	6		SAGE RIDGE RD	1010	1	4	0.990	
	39	230	0	8		SAGE RIDGE RD	1010	1	2	0.880	
	39	231	0	11		SAGE RIDGE RD	1010	1	3	0.850	
	39	232	0	9		SAGE RIDGE RD	1010	1	3	0.920	
	39	233	0	17		BAY VIEW RD	1010	1	3	1.230	
	39	234	0	2		SHORE RD	3160	1	0	1.090	
	39	237	0	1		CORMORANT RD	9500			1.500	
	39	238	0	5		CORMORANT RD	9500			1.270	
	39	239	0	9		CORMORANT RD	1010	1	4	1.470	
	39	240	0	3		KESTREL LN	1010	1	3	0.920	
	39	241	0	5		KESTREL LN	1300			0.810	
	39	242	0	7	A	KESTREL LN	1320			0.260	
	39	243	0	7		KESTREL LN	1010	1	4	1.290	
	39	244	0	8		KESTREL LN	1010	1	5	1.680	
	39	245	0	8		FALCON LN	1010	1	4	21.820	
	39	245	0	8		FALCON LN	1010	2	2	21.820	
	39	246	0	37		CORMORANT RD	1010	1	4	1.220	
	39	247	0	35		CORMORANT RD	1010	1	3	2.210	
	39	248	0	31		CORMORANT RD	1010	1	4	2.560	
	39	249	0	34		CORMORANT RD	1010	1	3	1.340	
	39	250	0	32		CORMORANT RD	1010	1	4	1.290	
	39	250	0	32		CORMORANT RD	1010	2	1	1.290	
	39	251	0	15		CORMORANT RD	1010	1	3	1.110	
	39	252	0	13		CORMORANT RD	9500			1.290	
	39	253	0	11		CORMORANT RD	9500			1.040	
	39	254	0	12		CORMORANT RD	1010	1	2	1.110	
	39	255	0	14		CORMORANT RD	1300			1.000	
	39	256	0	16		CORMORANT RD	1010	1	5	1.130	
	39	257	0	18		CORMORANT RD	1010	1	4	1.890	
	39	258	0	20		CORMORANT RD	1010	1	5	1.670	
	39	259	0	4		CORMORANT RD	9500			5.180	
	39	260	0	22		CORMORANT RD	1320			0.760	
	39	261	0	1		DANIEL LN	1010	1	3	0.790	
	39	262	0	3		DANIEL LN	1010	1	3	0.780	
	39	263	0	5		DANIEL LN	1010	1	3	0.780	
	39	264	0	7		DANIEL LN	1010	1	2	0.780	
	39	265	0	9		DANIEL LN	1010	1	2	0.790	
	39	266	0	11		DANIEL LN	1010	1	3	1.870	

	39	267	0	10		DANIEL LN	1090	1	3	2.240
	39	267	0	10		DANIEL LN	1090	2	2	2.240
	39	268	0	10		KYLE WAY	1010	1	3	0.820
	39	269	0	12		KYLE WAY	1010	1	3	0.860
	39	270	0	11		KYLE WAY	1010	1	4	0.780
	39	271	0	4		DANIEL LN	1010	1	3	0.780
	39	272	0	2		DANIEL LN	1010	1	2	0.810
	39	273	0	1		KYLE WAY	1010	1	3	0.780
	39	273	0	1		KYLE WAY	1010	2	1	0.780
	39	274	0	3		KYLE WAY	1010	1	3	0.780
	39	275	0	5		KYLE WAY	1040	1	4	0.780
	39	276	0	7		KYLE WAY	1010	1	3	0.840
	39	277	0	8		KYLE WAY	1010	1	3	0.840
	39	278	0	6		KYLE WAY	1010	1	3	0.860
	39	279	0	4		KYLE WAY	1010	1	3	0.830
	39	280	0	2		ALDRICH RD	1040	1	3	0.800
	39	281	0	3		SO HIGHLAND RD	1010	1	2	1.250
	39	282	0	23		SAWYER GROVE RD	1010	1	3	0.780
	39	283	0	17		SAWYER GROVE RD	1010	1	4	0.780
	39	284	0	15		SAWYER GROVE RD	1010	1	3	0.780
	39	285	0	13		SAWYER GROVE RD	1010	1	4	0.780
	39	286	0	11		SAWYER GROVE RD	1010	1	3	0.790
	39	287	0	9		SAWYER GROVE RD	1300			0.790
	39	288	0	7		SAWYER GROVE RD	1010	1	3	0.900
	39	289	0	5		SAWYER GROVE RD	1300			1.420
	39	290	0	1		SAWYER GROVE RD	1010	1	4	1.520
	39	291	0	25		SAWYER GROVE RD	1010	1	3	0.780
	39	292	0	24		SAWYER GROVE RD	1010	1	3	0.830
	39	293	0	20		SAWYER GROVE RD	1010	1	3	0.840
	39	294	0	16		SAWYER GROVE RD	1010	1	4	0.840
	39	294	0	16		SAWYER GROVE RD	1010	2	1	0.840
	39	295	0	14		SAWYER GROVE RD	1010	1	3	0.860
	39	296	0	10		SAWYER GROVE RD	1010	1	3	0.830
	39	297	0	6		SAWYER GROVE RD	1010	1	3	0.820
	39	298	0	4		SAWYER GROVE RD	1010	1	4	0.780
	39	300	0	6		PAINES WAY	1010	1	3	0.830
	39	301	0	18		BAY VIEW RD	1010	1	3	0.800
	39	302	0	5		PARKER DR	1010	1	4	0.980
	39	303	0	9		SHORE RD	1060			0.920
	39	304	0	13		NOONS DR	1010	1	4	0.810
	39	305	0	20		PRIEST RD	1300			0.840
	39	306	0	5		FALCON LN	9500			1.030
	39	307	0	17		NOONS DR	1300			0.790
	39	308	0	4		FRIENDSHIP WAY	1010	1	5	0.960
	39	309	0	11		ALDRICH RD	1040	1	5	0.960
	39	310	0	13		ALDRICH RD	1010	1	3	1.300
	39	311	0	23		BAY VIEW RD	1010	1	3	0.930
	39	312	0	13	A	NOONS DR	1060			0.790
	39	313	0	6		SCHARDT WAY	1300			1.150
	39	314	0	4		SCHARDT WAY	1010	1	4	1.150
	39	315	0	2		SCHARDT WAY	1010	1	4	0.920
	39	316	0	1		RUSSELL WAY	1010	1	3	0.970

	39	317	0	3		RUSSELL WAY	1010	1	3	0.970
	39	318	0	5		RUSSELL WAY	1300			0.970
	39	319	0	7		RUSSELL WAY	1010	1	4	0.970
	39	320	0	10	A	PETERS POND RD	1320			0.340
	39	321	0	4		FRANCIS RD	1060			1.551
	39	322	0	6		HUTCHINGS LN	1300			1.475
	39	323	0	340		RT 6	9300			2.693
	39	324	0	1		LAURAS WAY	1300			0.929
	39	325	0	3		LAURAS WAY	1300			1.089
	39	326	0	5		LAURAS WAY	1300			0.919
	39	327	0	7		LAURAS WAY	1300			0.780
	39	328	0	9		LAURAS WAY	1300			0.929
	39	329	0	11		LAURAS WAY	1300			0.929
	39	330	0	13		LAURAS WAY	1300			0.998
	39	331	0	15		LAURAS WAY	1300			1.389
	39	332	0	14		LAURAS WAY	1300			1.459
	39	333	0	12		LAURAS WAY	1300			0.930
	39	334	0	10		LAURAS WAY	1300			0.930
	39	335	0	8		LAURAS WAY	1300			0.930
	39	336	0	6		LAURAS WAY	1300			0.930
	39	337	0	4		LAURAS WAY	1300			0.930
	39	338	0	2		LAURAS WAY	1300			0.930
	40	1	0	38		SO HIGHLAND RD	1010	1	5	5.050
	40	6	0	15		ALDRICH RD	1010	1	4	0.460
	40	7	0	3		ZAZU LN	1010	1	3	0.840
	40	9	0	33		SO HIGHLAND RD	1110	1	0	1.120
	40	10	0	6		JOBI WAY	1110	1	0	1.080
	40	13	0	7		JOBI WAY	1010	1	3	0.520
	40	14	0	2		MOSES WAY	1090	1	2	0.550
	40	14	0	2		MOSES WAY	1090	2	2	0.550
	40	14	0	2		MOSES WAY	1090	3	2	0.550
	40	15	0	4		MOSES WAY	1120	1	0	0.530
	40	16	0	5		JOBI WAY	1010	1	3	0.520
	40	17	0	3		JOBI WAY	1010	1	4	0.520
	40	18	0	1		JOBI WAY	1010	1	3	0.770
	40	19	0	18		SO HIGHLAND RD	1010	1	2	2.340
	40	20	0	13		SO HIGHLAND RD	1010	1	3	0.570
	40	21	0	2		ALDEN CIR	1010	1	4	0.570
	40	22	0	17		SO HIGHLAND RD	1010	1	3	0.520
	40	23	0	19		SO HIGHLAND RD	1010	1	2	0.520
	40	24	0	21		SO HIGHLAND RD	1010	1	3	0.520
	40	25	0	23		SO HIGHLAND RD	1010	1	4	0.530
	40	28	0	3		MOSES WAY	1090	1	3	0.630
	40	28	0	3		MOSES WAY	1090	2	2	0.630
	40	28	0	3		MOSES WAY	1090	3	2	0.630
	40	29	0	5		MOSES WAY	1010	1	3	0.590
	40	30	0	8		MOSES WAY	1010	1	3	0.630
	40	31	0	1		NO UNION FIELD RD	1040	1	4	0.610
	40	32	0	4		NO UNION FIELD RD	1010	1	3	0.660
	40	33	0	11		SO HIGHLAND RD	1010	1	3	0.600
	40	34	0	2		ALDEN LN	1010	1	3	0.590
	40	35	0	4		ALDEN CIR	1010	1	4	0.700

	40	36	0	6		ALDEN CIR	1010	1	3	0.600
	40	37	0	8		ALDEN CIR	1040	1	4	0.630
	40	38	0	11		ALDEN CIR	1010	1	2	0.630
	40	39	0	4		ALDEN WAY	1010	1	2	0.590
	40	40	0	6		ALDEN WAY	1010	1	3	0.590
	40	41	0	7		MOSES WAY	1010	1	2	0.540
	40	42	0	12		MOSES WAY	1010	1	3	0.530
	40	43	0	14		MOSES WAY	1010	1	3	0.730
	40	44	0	16		MOSES WAY	1010	1	4	0.660
	40	45	0	6		NO UNION FIELD RD	1010	1	4	0.660
	40	46	0	6		ALDEN LN	1010	1	2	0.530
	40	47	0	4		ALDEN LN	1010	1	2	0.830
	40	48	0	1		ALDENS END	1010	1	3	0.580
	40	49	0	5		ALDEN CIR	1010	1	2	0.610
	40	50	0	7		ALDEN CIR	1010	1	2	0.700
	40	51	0	9		ALDEN CIR	1300			0.690
	40	52	0	1		ALDEN WAY	1010	1	2	0.610
	40	53	0	3		ALDEN WAY	1010	1	4	0.560
	40	54	0	5		ALDEN WAY	1010	1	2	0.510
	40	55	0	9		MOSES WAY	1010	1	2	0.520
	40	56	0	11		MOSES WAY	1010	1	3	0.520
	40	57	0	13		MOSES WAY	1010	1	3	0.550
	40	58	0	5		NO UNION FIELD RD	1010	1	3	0.570
	40	59	0	8		NO UNION FIELD RD	1010	1	2	0.680
	40	60	0	3		HOPKINS WAY	1010	1	3	0.800
	40	61	0	4		HOPKINS WAY	1010	1	3	0.790
	40	62	0	7		NO UNION FIELD RD	1010	1	2	0.780
	40	63	0	10		NO UNION FIELD RD	1010	1	3	0.770
	40	64	0	6		HOPKINS WAY	1010	1	2	0.820
	40	65	0	8		HOPKINS WAY	1300			0.970
	40	66	0	9		NO UNION FIELD RD	1010	1	4	0.860
	40	67	0	4		SO HIGHLAND WAY	1010	1	3	0.670
	40	71	0	241		OLD KINGS HWY	9300			6.000
	40	73	0	243		OLD KINGS HWY	9300			0.650
	40	74	0	206		OLD KINGS HWY	9000			11.380
	40	76	0	2		NO UNION FIELD RD	9300			0.870
	40	77	0	245		OLD KINGS HWY	9300			4.190
	40	78	0	246		OLD KINGS HWY	9000			12.460
	40	80	0	26		HOPKINS WAY	1300			0.840
	40	81	0	24		HOPKINS WAY	1010	1	2	1.040
	40	82	0	22		HOPKINS WAY	1010	1	3	0.840
	40	83	0	1		SCHARDT WAY	1010	1	4	1.050
	40	84	0	4		ALDRICH END	1010	1	2	1.500
	40	85	0	13		HOPKINS WAY	1010	1	3	0.780
	40	86	0	19		HOPKINS WAY	1010	1	2	0.800
	40	87	0	28		HOPKINS WAY	1010	1	3	0.830
	40	88	0	30		HOPKINS WAY	1300			0.840
	40	89	0	32		HOPKINS WAY	1010	1	3	0.830
	40	90	0	5		HOPKINS WAY	1010	1	3	0.780
	40	91	0	10		HOPKINS WAY	1010	1	3	0.780
	40	92	0	12		HOPKINS WAY	1010	1	4	0.780
	40	93	0	14		HOPKINS WAY	1010	1	3	0.780

	40	94	0	16		HOPKINS WAY	1010	1	3	0.940
	40	95	0	18		HOPKINS WAY	1010	1	2	0.780
	40	96	0	20		HOPKINS WAY	1010	1	3	0.780
	40	97	0	2		HIGHVIEW LN	1010	1	2	0.780
	40	98	0	4		HIGHVIEW LN	1010	1	3	0.770
	40	99	0	3		HIGHVIEW LN	1010	1	3	0.770
	40	100	0	4		HILLBOURNE TERR	1010	1	3	0.770
	40	101	0	6		HILLBOURNE TERR	1010	1	3	0.870
	40	102	0	8		HILLBOURNE TERR	1010	1	3	0.900
	40	103	0	10		HILLBOURNE TERR	1010	1	4	0.830
	40	104	0	9		HILLBOURNE TERR	1010	1	2	0.790
	40	105	0	7		HILLBOURNE TERR	1010	1	3	0.800
	40	106	0	5		HILLBOURNE TERR	1010	1	4	0.780
	40	107	0	3		HILLBOURNE TERR	1010	1	4	0.830
	40	108	0	1		HILLBOURNE TERR	1010	1	4	0.780
	40	112	0	30		SO HIGHLAND RD	1010	1	3	0.940
	40	113	0	18		ALDRICH RD	1010	1	3	0.950
	40	114	0	20		ALDRICH RD	1010	1	3	0.870
	40	115	0	19		ALDRICH RD	1010	1	4	0.970
	40	116	0	21		ALDRICH RD	1010	1	3	0.810
	40	117	0	23		ALDRICH RD	1010	1	5	0.970
	40	118	0	22		SO HIGHLAND RD	1010	1	3	0.960
	40	119	0	20		SO HIGHLAND RD	1040	1	4	1.030
	40	120	0	12		NO UNION FIELD RD	1010	1	6	0.790
	40	121	0	14		NO UNION FIELD RD	1300			0.790
	40	122	0	11		NO UNION FIELD RD	1010	1	2	0.800
	40	123	0	13		NO UNION FIELD RD	1010	1	3	1.040
	40	124	0	14	A	NO UNION FIELD RD	1320			0.280
	40	126	0	18	A	NO UNION FIELD RD	1320			0.020
	40	127	0	45		SO HIGHLAND RD	1010	1	4	1.540
	40	128	0	43		SO HIGHLAND RD	1010	1	2	1.540
	40	129	0	41		SO HIGHLAND RD	1010	1	3	1.540
	40	130	0	39		SO HIGHLAND RD	1010	1	7	1.540
	40	131	0	17		ALDRICH RD	1010	1	3	0.780
	40	134	0	8		ANDREW WAY	1300			0.920
	40	135	0	10		ANDREW WAY	1300			1.020
	40	136	0	12		ANDREW WAY	1300			1.030
	40	137	0	14		ANDREW WAY	1300			1.020
	40	138	0	16		ANDREW WAY	1010	1	4	0.920
	40	139	0	18		ANDREW WAY	1010	1	4	0.920
	40	140	0	19		ANDREW WAY	1010	1	3	0.940
	40	141	0	17		ANDREW WAY	1010	1	4	0.930
	40	142	0	2		LEEWARD PASSAGE	1300			0.930
	40	143	0	4		LEEWARD PASSAGE	1300			0.930
	40	144	0	15		ANDREW WAY	1010	1	3	0.920
	40	145	0	8		LEEWARD PASSAGE	1010	1	3	0.960
	40	146	0	10		LEEWARD PASSAGE	1010	1	3	0.960
	40	147	0	12		LEEWARD PASSAGE	1010	1	3	1.070
	40	150	0	5		LEEWARD PASSAGE	9000			0.230
	40	151	0	14		SO HIGHLAND RD	1010	1	3	0.780
	40	152	0	6		FRIENDSHIP WAY	1300			0.950
	40	153	0	8		FRIENDSHIP WAY	1090	1	3	0.950

	40	153	0	8		FRIENDSHIP WAY	1090	2	2	0.950	
	40	154	0	12		ALDRICH RD	1010	1	4	0.920	
	40	155	0	2		FAIR WINDS PASSAGE	1010	1	3	0.930	
	40	156	0	4		FAIR WINDS PASSAGE	1010	1	3	0.930	
	40	157	0	6		FAIR WINDS PASSAGE	1010	1	4	1.030	
	40	158	0	8		FAIR WINDS PASSAGE	1010	1	4	0.950	
	40	159	0	10		FAIR WINDS PASSAGE	1300			0.930	
	40	160	0	12		FAIR WINDS PASSAGE	1300			0.930	
	40	161	0	7		FAIR WINDS PASSAGE	1300			0.920	
	40	162	0	5		FAIR WINDS PASSAGE	1300			0.950	
	40	163	0	3		FAIR WINDS PASSAGE	1300			1.030	
	40	164	0	1		FAIR WINDS PASSAGE	1010	1	3	0.920	
	40	165	0	7		LEEWARD PASSAGE	1010	1	4	0.920	
	40	166	0	9		LEEWARD PASSAGE	1010	1	4	0.920	
	40	167	0	27		SO HIGHLAND RD	9300			2.249	
	40	168	0	42		SO HIGHLAND RD	1300			1.043	
	40	169	0	25		SO HIGHLAND RD	9300			0.775	
	40	170	0	247		OLD KINGS HWY	9800			6.497	
	41	1	0	39		OLD OUTERMOST RD	1010	1	2	3.660	
	41	2	0	37		OLD OUTERMOST RD	1010	1	2	3.550	
	41	3	0	29		OLD OUTERMOST RD	1010	1	3	3.000	
	41	3	0	29		OLD OUTERMOST RD	1010	2	2	3.000	
	41	4	0	15		UNCLE IRVS WAY	1010	1	4	4.210	
	41	4	0	15		UNCLE IRVS WAY	1010	2	1	4.210	
	42	1	0	15		CRESTVIEW CIR	1010	1	8	0.990	
	42	2	0	12		CRESTVIEW CIR	1010	1	4	0.890	
	42	3	0	10		CRESTVIEW CIR	1010	1	1	0.860	
	42	4	0	8		CRESTVIEW CIR	1010	1	2	0.800	
	42	5	0	8		CHICKADEE LN	1010	1	4	1.400	
	42	6	0	7		CHICKADEE LN	1300			1.440	
	42	9	0	14		PARKER DR	1010	1	3	0.660	
	42	10	0	4		CRESTVIEW CIR	1010	1	4	0.860	
	42	11	0	6		CRESTVIEW CIR	1300			0.870	
	42	12	0	6		CHICKADEE LN	1010	1	4	1.630	
	42	13	0	5		CHICKADEE LN	1010	1	3	0.800	
	42	14	0	32		NOONS DR	1010	1	3	1.080	
	42	18	0	17		CRESTVIEW CIR	1010	1	7	1.160	
	42	19	0	19		CRESTVIEW CIR	1010	1	6	1.320	
	42	20	0	37		PARKER DR	1010	1	4	0.800	
	42	21	0	2		CRESTVIEW CIR	1010	1	4	0.930	
	42	22	0	3		CRESTVIEW CIR	1010	1	3	1.140	
	42	23	0	33		PARKER DR	1010	1	4	1.220	
	42	24	0	4		CHICKADEE LN	1300			1.010	
	42	25	0	2		CHICKADEE LN	1010	1	3	1.080	
	42	26	0	3		CHICKADEE LN	1010	1	3	0.830	
	42	27	0	1		CHICKADEE LN	1010	1	3	0.950	
	42	28	0	28		NOONS DR	1010	1	3	0.670	
	42	29	0	25		PARKER DR	1300			0.560	
	42	30	0	29		NOONS DR	1300			0.800	
	42	31	0	27		NOONS DR	1010	1	2	0.630	
	42	32	0	25		NOONS DR	1010	1	2	0.670	
	42	33	0	23		NOONS DR	1010	1	5	0.690	

	42	34	0	21		NOONS DR	1010	1	3	0.700
	42	35	0	23		PARKER DR	1010	1	2	0.530
	42	36	0	19		PARKER DR	1090	1	4	1.040
	42	36	0	19		PARKER DR	1090	2	2	1.040
	42	38	0	15		PARKER DR	1010	1	4	1.700
	42	39	0	21		CRESTVIEW CIR	1010	1	4	1.260
	42	40	0	40		PARKER DR	1010	1	3	0.870
	42	41	0	23		CRESTVIEW CIR	1010	1	4	1.290
	42	42	0	22		CRESTVIEW CIR	1010	1	3	0.880
	42	42	0	22		CRESTVIEW CIR	1010	2	1	0.880
	42	43	0	38		PARKER DR	1010	1	3	1.120
	42	44	0	36		PARKER DR	1010	1	3	0.820
	42	45	0	34		PARKER DR	1010	1	3	0.850
	42	46	0	32		PARKER DR	1010	1	4	0.960
	42	47	0	30		PARKER DR	1010	1	1	0.980
	42	48	0	28		PARKER DR	1090	1	3	0.990
	42	48	0	28		PARKER DR	1090	2	1	0.990
	42	50	0	24		PARKER DR	1010	1	3	1.030
	42	51	0	22		PARKER DR	1010	1	3	0.620
	42	52	0	20		PARKER DR	1010	1	3	0.540
	42	53	0	18		PARKER DR	1010	1	3	0.540
	42	54	0	16		PARKER DR	1010	1	3	0.660
	42	55	0	43		FISHERMANS RD	1010	1	3	0.610
	42	56	0	41		FISHERMANS RD	1010	1	4	0.540
	42	57	0	39		FISHERMANS RD	1010	1	3	0.580
	42	58	0	37		FISHERMANS RD	1010	1	4	0.520
	42	59	0	35		FISHERMANS RD	1010	1	4	0.520
	42	60	0	33		FISHERMANS RD	1010	1	3	0.520
	42	61	0	31		FISHERMANS RD	1010	1	3	0.530
	42	62	0	29		FISHERMANS RD	1010	1	3	0.550
	42	63	0	27		FISHERMANS RD	1010	1	5	0.660
	42	64	0	25		FISHERMANS RD	1010	1	3	0.770
	42	65	0	23		FISHERMANS RD	1010	1	3	0.780
	42	66	0	21		FISHERMANS RD	1040	1	5	0.710
	42	67	0	19		FISHERMANS RD	1010	1	3	0.680
	42	68	0	17		FISHERMANS RD	1010	1	3	0.710
	42	69	0	15		FISHERMANS RD	1010	1	4	0.770
	42	70	0	13		FISHERMANS RD	1010	1	3	0.800
	42	71	0	11		FISHERMANS RD	1010	1	4	0.800
	42	72	0	9		FISHERMANS RD	1010	1	3	0.810
	42	73	0	7		FISHERMANS RD	1010	1	3	1.000
	42	74	0	5		FISHERMANS RD	1010	1	3	1.000
	42	75	0	45		FISHERMANS RD	1010	1	4	0.790
	42	76	0	40		FISHERMANS RD	1010	1	4	0.780
	42	77	0	38		FISHERMANS RD	1010	1	3	0.630
	42	78	0	1		HEATHER LN	1010	1	4	0.890
	42	79	0	34		FISHERMANS RD	1300			1.030
	42	80	0	32		FISHERMANS RD	1010	1	3	0.880
	42	81	0	30		FISHERMANS RD	1010	1	3	0.640
	42	82	0	28		FISHERMANS RD	1010	1	4	0.620
	42	83	0	26		FISHERMANS RD	1010	1	3	0.570
	42	84	0	24		FISHERMANS RD	1010	1	3	0.540

	42	85	0	22		FISHERMANS RD	1010	1	3	0.540	
	42	86	0	20		FISHERMANS RD	1010	1	3	0.630	
	42	87	0	18		FISHERMANS RD	1010	1	3	0.670	
	42	88	0	16		FISHERMANS RD	1010	1	2	0.780	
	42	89	0	14		FISHERMANS RD	1010	1	3	0.870	
	42	90	0	1		BAYBERRY RD	1010	1	3	1.470	
	42	91	0	4		BAYBERRY RD	1010	1	5	1.190	
	42	93	0	8		FISHERMANS RD	1090	1	3	0.540	
	42	93	0	8		FISHERMANS RD	1090	2	1	0.540	
	42	94	0	6		FISHERMANS RD	1010	1	3	0.780	
	42	95	0	332		RT 6	0310	1	0	0.970	
	42	96	0	47		FISHERMANS RD	1010	1	4	0.720	
	42	97	0	49		FISHERMANS RD	1060			0.749	
	42	98	0	42		FISHERMANS RD	1010	1	4	1.190	
	42	99	0	51		FISHERMANS RD	1010	1	3	0.750	
	42	100	0	7		HEATHER LN	1010	1	3	1.000	
	42	101	0	5		HEATHER LN	1010	1	3	0.940	
	42	102	0	27		BAYBERRY RD	1010	1	5	1.020	
	42	103	0	23		BAYBERRY RD	1010	1	3	1.020	
	42	104	0	21		BAYBERRY RD	1010	1	2	0.590	
	42	105	0	19		BAYBERRY RD	1010	1	3	0.530	
	42	106	0	17		BAYBERRY RD	1010	1	3	0.550	
	42	107	0	15		BAYBERRY RD	1010	1	3	0.560	
	42	108	0	13		BAYBERRY RD	1010	1	5	0.560	
	42	109	0	11		BAYBERRY RD	1010	1	3	0.610	
	42	110	0	9		BAYBERRY RD	1010	1	4	0.670	
	42	111	0	7		BAYBERRY RD	1010	1	3	0.720	
	42	112	0	5		BAYBERRY RD	1300			0.760	
	42	113	0	3		BAYBERRY RD	1010	1	3	0.650	
	42	114	0	6		BAYBERRY RD	1010	1	3	0.740	
	42	116	0	53		FISHERMANS RD	1010	1	2	0.720	
	42	117	0	8		HEATHER LN	1010	1	5	1.060	
	42	118	0	6		HEATHER LN	1010	1	4	0.730	
	42	118	0	6		HEATHER LN	1010	2	1	0.730	
	42	119	0	30		BAYBERRY RD	1010	1	2	1.060	
	42	120	0	28		BAYBERRY RD	1010	1	3	0.570	
	42	121	0	26		BAYBERRY RD	1010	1	4	0.520	
	42	122	0	24		BAYBERRY RD	1010	1	3	0.550	
	42	123	0	22		BAYBERRY RD	1010	1	4	0.560	
	42	124	0	20		BAYBERRY RD	1010	1	3	0.590	
	42	125	0	18		BAYBERRY RD	1010	1	3	0.600	
	42	126	0	16		BAYBERRY RD	1010	1	4	0.580	
	42	127	0	14		BAYBERRY RD	1010	1	4	0.550	
	42	128	0	12		BAYBERRY RD	1010	1	3	0.540	
	42	129	0	10		BAYBERRY RD	1010	1	2	0.720	
	42	130	0	8		BAYBERRY RD	1300			1.590	
	42	131	0	0		FISHERMANS RD	1060			3.390	
	42	132	0	55		FISHERMANS RD	1010	1	4	1.030	
	42	133	0	30		HART RD	1300			0.990	
	42	134	0	29		HART RD	1010	1	4	1.040	
	42	135	0	15		HART RD	1010	1	4	1.000	
	42	136	0	13		HART RD	1010	1	2	0.850	

	42	137	0	11		HART RD	1010	1	2	0.800
	42	138	0	9		HART RD	1010	1	3	0.880
	42	139	0	12		HART RD	1010	1	3	1.060
	42	140	0	3		BLUEFIN LN	1010	1	3	0.810
	42	141	0	1		BLUEFIN LN	1010	1	3	0.770
	42	142	0	18		HART RD	1010	1	2	0.440
	42	143	0	6		BLUEFIN LN	1010	1	4	0.900
	42	144	0	4		BLUEFIN LN	1010	1	4	0.920
	42	145	0	2		BLUEFIN LN	1010	1	3	0.780
	42	146	0	9		GREAT HOLLOW RD	1010	1	5	14.640
	42	147	0	11		GREAT HOLLOW RD	1010	1	1	1.240
	42	148	14	7		GREAT HOLLOW RD	1020	1	2	0.000
	42	148	16	7		GREAT HOLLOW RD	1020	1	2	0.000
	42	148	36	7		GREAT HOLLOW RD	1020	1	2	0.000
	42	148	37	7		GREAT HOLLOW RD	1020	1	2	0.000
	42	148	38	7		GREAT HOLLOW RD	1020	1	2	0.000
	42	148	39	7		GREAT HOLLOW RD	1020	1	2	0.000
	42	148	40	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	41	7		GREAT HOLLOW RD	1020	1	4	0.000
	42	148	42	7		GREAT HOLLOW RD	1020	1	4	0.000
	42	148	43	7		GREAT HOLLOW RD	1020	1	4	0.000
	42	148	44	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	45	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	46	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	47	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	48	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	49	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	50	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	148	51	7		GREAT HOLLOW RD	1020	1	3	0.000
	42	149	0	318		RT 6	0310	1	3	0.780
	42	149	0	318		RT 6	0310	2	0	0.780
	42	150	0	314		RT 6	0310	1	1	0.460
	42	150	0	314		RT 6	0310	2	0	0.460
	42	154	0	26		HART RD	1010	1	4	1.110
	42	155	0	17		GREAT HOLLOW RD	0130	1	4	0.960
	42	155	0	17		GREAT HOLLOW RD	0130	2	1	0.960
	42	155	0	17		GREAT HOLLOW RD	0130	3	3	0.960
	42	155	0	17		GREAT HOLLOW RD	0130	4	2	0.960
	42	155	0	17		GREAT HOLLOW RD	0130	5	2	0.960
	42	157	0	16		QUAIL HILL RD	1300			0.800
	42	159	0	14		QUAIL HILL RD	1010	1	4	0.960
	42	160	0	12		QUAIL HILL RD	1300			0.870
	42	161	0	10		QUAIL HILL RD	1010	1	5	1.000
	42	162	0	8		QUAIL HILL RD	1300			0.720
	42	163	0	6		QUAIL HILL RD	1040	1	3	0.690
	42	164	0	4		QUAIL HILL RD	1010	1	2	0.920
	42	166	0	1		QUAIL WAY	1300			1.290
	42	167	0	27		GREAT HOLLOW RD	1010	1	3	1.240
	42	167	0	27		GREAT HOLLOW RD	1010	2	2	1.240
	42	168	0	25		GREAT HOLLOW RD	1300			1.170
	42	169	0	23		GREAT HOLLOW RD	1010	1	3	1.100
	42	170	0	21		GREAT HOLLOW RD	1010	1	2	0.860

	42	172	0	12		QUAIL WAY	9500			0.920	
	42	174	0	20		GREAT HOLLOW RD	1090	1	3	0.990	
	42	174	0	20		GREAT HOLLOW RD	1090	2	1	0.990	
	42	176	0	15		CABRAL FARM RD	1010	1	1	0.910	
	42	177	0	10		CABRAL FARM RD	1300			9.780	
	42	178	0	308		RT 6	1010	1	3	1.060	
	42	179	0	4		GREAT HOLLOW RD	1010	1	2	0.660	
	42	180	0	2		GREAT HOLLOW LN	1010	1	2	0.730	
	42	181	0	6		GREAT HOLLOW RD	1010	1	2	0.920	
	42	182	0	1		CABRAL FARM RD	0310	1	2	1.370	
	42	182	0	1		CABRAL FARM RD	0310	2	0	1.370	
	42	182	0	1		CABRAL FARM RD	0310	3	0	1.370	
	42	183	0	4		GREAT HOLLOW LN	1090	1	2	1.080	
	42	183	0	4		GREAT HOLLOW LN	1090	2	1	1.080	
	42	184	0	8		CABRAL FARM RD	1010	1	2	0.460	
	42	185	0	302		RT 6	3160	1	0	1.110	
	42	185	0	302		RT 6	3160	2	0	1.110	
	42	186	0	300		RT 6	3250	1	0	1.670	
	42	186	0	300		RT 6	3250	2	0	1.670	
	42	187	0	7		ANDERSON WAY	1010	1	2	0.550	
	42	187	0	7		ANDERSON WAY	1010	2	1	0.550	
	42	188	0	8		ANDERSON WAY	1090	1	3	0.970	
	42	188	0	8		ANDERSON WAY	1090	2	3	0.970	
	42	189	0	6		ANDERSON WAY	1010	1	1	0.650	
	42	190	0	4		ANDERSON WAY	1010	1	2	0.550	
	42	191	0	40		GREAT HOLLOW RD	0130	1	4	3.489	
	42	191	0	40		GREAT HOLLOW RD	0130	2	2	3.489	
	42	191	0	40		GREAT HOLLOW RD	0130	3	2	3.489	
	42	191	0	40		GREAT HOLLOW RD	0130	4	2	3.489	
	42	191	0	40		GREAT HOLLOW RD	0130	5	3	3.489	
	42	191	0	40		GREAT HOLLOW RD	0130	6	3	3.489	
	42	191	0	40		GREAT HOLLOW RD	0130	7	0	3.489	
	42	192	0	2		OLD COLONY WAY	1010	1	4	0.770	
	42	193	0	4		SKY VIEW DR	1010	1	3	0.880	
	42	194	0	6		SKY VIEW DR	1010	1	4	0.800	
	42	195	0	8		SKY VIEW DR	1010	1	4	0.780	
	42	196	0	10		SKY VIEW DR	1010	1	3	0.830	
	42	197	0	12		SKY VIEW DR	1010	1	1	0.780	
	42	198	0	14		SKY VIEW DR	1010	1	3	0.800	
	42	199	0	15		SKY VIEW DR	1010	1	4	0.800	
	42	200	0	5		SKY VIEW DR	1010	1	4	0.941	
	42	201	0	2		HIGH RIDGE RD	1010	1	3	0.870	
	42	202	0	9		SKY VIEW DR	1010	1	2	2.000	
	42	203	0	13		SKY VIEW DR	1010	1	3	1.250	
	42	204	0	3		HIGH RIDGE RD	1010	1	3	0.830	
	42	205	0	4		HIGH RIDGE RD	1010	1	4	0.800	
	42	206	0	5		HIGH RIDGE RD	1010	1	3	0.820	
	42	207	0	7		HIGH RIDGE RD	1010	1	4	0.960	
	42	208	0	6		HIGH RIDGE RD	1010	1	4	0.830	
	42	209	0	8		HIGH RIDGE RD	1010	1	4	0.920	
	42	210	0	10		HIGH RIDGE RD	1010	1	3	1.100	
	42	211	0	1		HIGH RIDGE RD EXT	1010	1	4	1.060	

	42	212	0	12		LAWRENCE WAY	1010	1	4	1.360
	42	213	0	11		LAWRENCE WAY	1010	1	2	0.810
	42	213	0	11		LAWRENCE WAY	1010	2	1	0.810
	42	214	0	9		LAWRENCE WAY	1010	1	4	0.840
	42	215	0	7		LAWRENCE WAY	1010	1	2	0.940
	42	216	0	4		ELIZABETH WAY	1090	1	2	0.780
	42	216	0	4		ELIZABETH WAY	1090	2	1	0.780
	42	217	0	6		ELIZABETH WAY	1010	1	4	0.660
	42	218	0	5		ELIZABETH WAY	1010	1	3	0.750
	42	219	0	10		LAWRENCE WAY	1010	1	5	1.410
	42	220	0	2		ELIZABETH WAY	1010	1	2	0.780
	42	221	0	3		ELIZABETH WAY	1010	1	2	0.620
	42	222	0	3		LAWRENCE WAY	1010	1	3	0.700
	42	223	0	1		LAWRENCE WAY	1010	1	1	0.610
	42	224	0	122		CASTLE RD	1010	1	4	0.550
	42	225	0	8		LAWRENCE WAY	1300			1.200
	42	226	0	6		LAWRENCE WAY	1010	1	3	0.540
	42	227	0	120		CASTLE RD	1010	1	3	1.030
	42	228	0	118		CASTLE RD	1010	1	4	0.920
	42	229	0	30		NOONS DR	1010	1	4	0.570
	42	230	0	0		GREAT HOLLOW BEACH	9300			1.150
	42	231	0	33		GREAT HOLLOW RD	1010	1	3	0.770
	42	232	0	6		QUAIL WAY	1010	1	4	0.770
	42	233	0	37		GREAT HOLLOW RD	1010	1	3	0.920
	42	233	0	37		GREAT HOLLOW RD	1010	2	1	0.920
	42	235	0	17		HART RD	1010	1	3	0.800
	42	236	0	21		HART RD	1010	1	3	0.850
	42	237	1	5		GREAT HOLLOW RD	3430	1	0	0.000
	42	237	2	3		GREAT HOLLOW RD	3430	1	0	0.000
	42	237	3	5		GREAT HOLLOW RD	1020	1	2	0.000
	42	237	4	5		GREAT HOLLOW RD	1020	1	2	0.000
	42	237	5	3		GREAT HOLLOW RD	1020	1	2	0.000
	42	237	6	3		GREAT HOLLOW RD	1020	1	2	0.000
	42	238	0	22		GREAT HOLLOW RD	1010	1	2	1.370
	42	239	0	24		GREAT HOLLOW RD	1010	1	4	2.040
	42	240	0	2		SUNSET LN	1010	1	3	1.980
	42	241	0	1		SUNSET LN	1010	1	3	1.030
	42	242	0	5		SUNSET LN	1010	1	4	1.090
	42	243	0	4		SUNSET LN	1300			1.150
	42	244	0	32		GREAT HOLLOW RD	1300			0.900
	42	245	0	8		SUNSET LN	1010	1	3	1.190
	42	246	0	34		GREAT HOLLOW RD	1010	1	4	1.120
	42	247	0	36		GREAT HOLLOW RD	1010	1	4	0.800
	42	250	0	25		HART RD	1010	1	4	1.000
	42	251	0	23		HART RD	1300			1.000
	42	252	0	4		HILLTOP LN	1300			0.990
	42	253	0	2		HIGH RIDGE RD EXT	1010	1	3	1.810
	42	254	0	22		HART RD	1010	1	4	0.800
	42	255	0	20		HART RD	1010	1	3	0.870
	42	256	0	3		QUAIL HILL RD	1320			0.450
	42	257	0	46		CORMORANT RD	1010	1	4	1.040
	42	258	0	45		CORMORANT RD	1010	1	4	0.930

	42	259	0	41		CORMORANT RD	1010	1	5	0.920	
	42	260	0	39		CORMORANT RD	1010	1	3	1.380	
	42	261	0	36		CORMORANT RD	1300			1.350	
	42	262	0	1		BAYSIDE HILLS RD	1010	1	3	0.780	
	42	263	0	3		BAYSIDE HILLS RD	1010	1	3	0.780	
	42	264	0	5		BAYSIDE HILLS RD	1010	1	6	0.780	
	42	265	0	3		KETTLE HOLE LN	1010	1	3	0.830	
	42	266	0	4		KETTLE HOLE LN	1010	1	3	0.870	
	42	267	0	7		BAYSIDE HILLS RD	1010	1	3	0.870	
	42	268	0	9		BAYSIDE HILLS RD	1010	1	4	0.850	
	42	269	0	8		BAYSIDE HILLS RD	1010	1	3	0.920	
	42	270	0	6		BAYSIDE HILLS RD	1300			0.780	
	42	271	0	10		BAYSIDE HILLS RD	1010	1	3	0.800	
	42	272	0	4		BAYSIDE HILLS RD	1010	1	3	0.780	
	42	273	0	2		BAYSIDE HILLS RD	1010	1	4	0.780	
	42	274	0	316		RT 6	3260	1	0	0.880	
	42	274	0	316		RT 6	3260	2	0	0.880	
	42	274	A	316	A	RT 6	3920			0.005	
	42	275	0	10		GREAT HOLLOW RD	1010	1	3	0.780	
	42	276	0	4		MARSH HAWK TRACE	1010	1	4	0.780	
	42	277	0	6		MARSH HAWK TRACE	1010	1	3	1.040	
	42	278	0	8		MARSH HAWK TRACE	1010	1	3	0.920	
	42	279	0	10		MARSH HAWK TRACE	1010	1	3	0.870	
	42	280	0	12		MARSH HAWK TRACE	1300			0.970	
	42	281	0	18		GREAT HOLLOW RD	1010	1	5	0.850	
	42	282	0	7		MARSH HAWK TRACE	1010	1	4	0.810	
	42	283	0	14		GREAT HOLLOW RD	1300			0.780	
	42	284	0	1		MARSH HAWK TRACE	1010	1	4	0.780	
	42	285	0	3		MARSH HAWK TRACE	1300			0.790	
	42	286	0	5		MARSH HAWK TRACE	1300			0.790	
	42	287	0	1		BEARBERRY LN	1010	1	3	0.910	
	42	288	0	3		BEARBERRY LN	1300			0.940	
	42	289	0	5		BEARBERRY LN	1010	1	4	2.130	
	42	290	0	6		BEARBERRY LN	1010	1	4	1.940	
	42	291	0	4		BEARBERRY LN	1010	1	4	0.970	
	42	292	0	2		BEARBERRY LN	1300			1.050	
	42	293	0	6		CABRAL FARM RD	1010	1	2	1.120	
	42	294	0	10		QUAIL WAY	9500			0.920	
	42	295	0	46	A	CORMORANT RD	1320			0.180	
	42	296	0	329		RT 6	1010	1	3	0.800	
	42	297	0	7		QUAIL WAY	1010	1	4	2.000	
	42	298	0	3		QUAIL WAY	1300			0.920	
	42	299	0	1		KILL DEVIL RD	1300			0.940	
	42	300	0	3		KILL DEVIL RD	1010	1	4	3.000	
	42	300	0	3		KILL DEVIL RD	1010	2	1	3.000	
	42	300	0	3		KILL DEVIL RD	1010	3	0	3.000	
	42	301	0	14		FIRST LIGHT LN	1010	1	3	0.920	
	42	302	0	4		HEATHER LN	1010	1	4	1.020	
	42	303	0	2		KILL DEVIL RD	1010	1	2	1.092	
	42	304	0	4		KILL DEVIL RD	1090	1	3	1.919	
	42	304	0	4		KILL DEVIL RD	1090	2	1	1.919	
	42	305	0	1		SKY VIEW DR	1300			0.844	

	42	306	0	15	A	CRESTVIEW CIR	1320			0.820	
	42	307	0	5		OBBO DR	1300			0.921	
	42	308	0	3		OBBO DR	1300			0.919	
	43	1	0	317		RT 6	9340	1	0	7.940	
	43	2	0	10	A	WALSH WAY	1300			57.173	
	43	3	0	0		QUAIL RIDGE RD	9300			9.400	
	43	4	0	2		SCRUB OAK WAY	1010	1	3	0.520	
	43	5	0	4		SCRUB OAK WAY	1010	1	2	1.380	
	43	6	0	4		WALSH WAY	1010	1	3	1.060	
	43	7	0	309		RT 6	1300			0.320	
	43	8	0	3		WALSH WAY	1010	1	1	0.550	
	43	9	0	8		WALSH WAY	1300			3.740	
	43	10	0	10		WALSH WAY	1010	1	3	2.180	
	43	11	0	307		RT 6	1010	1	2	0.990	
	43	12	0	303		RT 6	1010	1	3	0.450	
	43	13	0	13		WALSH WAY	1010	1	1	2.240	
	43	15	0	1		STORY BOOK LN	1010	1	2	0.780	
	43	16	0	8		QUAIL RIDGE RD	1010	1	3	0.810	
	43	17	0	10		QUAIL RIDGE RD	1010	1	2	0.770	
	43	18	0	12		QUAIL RIDGE RD	1300			0.780	
	43	19	0	14		QUAIL RIDGE RD	1010	1	1	0.790	
	43	20	0	16		QUAIL RIDGE RD	1010	1	2	0.780	
	43	21	0	18		QUAIL RIDGE RD	1040	1	4	0.810	
	43	22	0	20		QUAIL RIDGE RD	1010	1	2	0.800	
	43	23	0	22		QUAIL RIDGE RD	1010	1	3	0.800	
	43	24	0	24		QUAIL RIDGE RD	1010	1	2	0.800	
	43	25	0	26		QUAIL RIDGE RD	1010	1	4	0.800	
	43	26	0	28		QUAIL RIDGE RD	1010	1	3	0.780	
	43	27	0	1		QUAIL RIDGE WAY	1010	1	3	0.810	
	43	28	0	1	A	QUAIL RIDGE WAY	1320			3.430	
	43	30	0	6		QUAIL RIDGE RD	1010	1	3	0.770	
	43	31	0	7		QUAIL RIDGE RD	1010	1	3	0.780	
	43	32	0	9		QUAIL RIDGE RD	1010	1	4	0.780	
	43	33	0	4		HOUSER WAY	1040	1	4	1.040	
	43	34	0	13		QUAIL RIDGE RD	1090	1	3	1.020	
	43	34	0	13		QUAIL RIDGE RD	1090	2	1	1.020	
	43	35	0	15		QUAIL RIDGE RD	1010	1	5	0.890	
	43	36	0	17		QUAIL RIDGE RD	1010	1	4	0.830	
	43	37	0	19		QUAIL RIDGE RD	1300			0.830	
	43	38	0	21		QUAIL RIDGE RD	1010	1	4	0.830	
	43	39	0	23		QUAIL RIDGE RD	1300			0.850	
	43	40	0	25		QUAIL RIDGE RD	1090	1	3	0.930	
	43	40	0	25		QUAIL RIDGE RD	1090	2	1	0.930	
	43	41	0	27		QUAIL RIDGE RD	1010	1	3	0.830	
	43	42	0	29		QUAIL RIDGE RD	1010	1	4	0.800	
	43	43	0	30		QUAIL RIDGE RD	1010	1	4	0.790	
	43	44	0	32		QUAIL RIDGE RD	1010	1	3	0.830	
	43	45	0	2		QUAIL RIDGE EXT	1010	1	3	2.520	
	43	46	0	5		ANDERSON WAY	1010	1	1	0.370	
	43	47	0	3		ANDERSON WAY	1010	1	1	0.600	
	43	48	0	126		CASTLE RD	3010	1	2	0.920	
	43	48	0	126		CASTLE RD	3010	2	2	0.920	

	43	48	0	126		CASTLE RD	3010	3	2	0.920
	43	49	0	124		CASTLE RD	3010	1	2	0.780
	43	49	0	124		CASTLE RD	3010	2	2	0.780
	43	49	0	124		CASTLE RD	3010	3	2	0.780
	43	49	0	124		CASTLE RD	3010	4	2	0.780
	43	50	0	25		WHITMANVILLE RD	1010	1	2	1.050
	43	51	0	21		WHITMANVILLE RD	1010	1	4	1.390
	43	52	0	12		HOUSER WAY	1010	1	2	0.660
	43	57	0	298		RT 6	3900			1.145
	43	58	0	17		WHITMANVILLE RD	1010	1	3	1.280
	43	58	0	17		WHITMANVILLE RD	1010	2	1	1.280
	43	59	0	13		WHITMANVILLE RD	1010	1	3	2.620
	43	61	0	43		SYLVAN LN	1010	1	3	0.942
	43	63	0	45		SYLVAN LN	1300			1.041
	43	64	0	41		SYLVAN LN	1090	1	1	1.190
	43	64	0	41		SYLVAN LN	1090	2	2	1.190
	43	65	0	39		SYLVAN LN	1010	1	4	0.930
	43	66	0	37		SYLVAN LN	1300			1.080
	43	67	0	38		SYLVAN LN	1010	1	1	0.690
	43	68	0	36		SYLVAN LN	1060			0.590
	43	69	0	34		SYLVAN LN	1300			0.950
	43	70	0	32		SYLVAN LN	1010	1	4	1.270
	43	71	0	30		SYLVAN LN	1010	1	3	0.540
	43	72	0	35		SYLVAN LN	1010	1	4	0.820
	43	73	0	28		SYLVAN LN	1090	1	3	0.540
	43	73	0	28		SYLVAN LN	1090	2	1	0.540
	43	74	0	33		SYLVAN LN	1060			0.720
	43	75	0	31		SYLVAN LN	1300			2.030
	43	76	0	20		WHITMANVILLE RD	1010	1	5	1.420
	43	77	0	16		WHITMANVILLE RD	1010	1	3	0.690
	43	78	0	14		WHITMANVILLE RD	1300			0.200
	43	79	0	11		WHITMANVILLE RD	1010	1	2	0.600
	43	80	0	2		SYLVAN LN	1010	1	3	0.750
	43	81	0	4		SYLVAN LN	1010	1	3	0.740
	43	82	0	6		SYLVAN LN	1010	1	4	0.830
	43	83	0	8		SYLVAN LN	1010	1	4	0.870
	43	84	0	7		TWINING RD	1010	1	2	0.620
	43	85	0	10		SYLVAN LN	1010	1	3	0.630
	43	86	0	5		TWINING RD	1010	1	3	0.620
	43	87	0	2		TWINING RD	1010	1	3	0.530
	43	88	0	9		SYLVIAS WAY	1010	1	4	1.900
	43	89	0	5		SYLVIAS WAY	1090	1	2	1.180
	43	89	0	5		SYLVIAS WAY	1090	2	1	1.180
	43	90	0	3		SYLVIAS WAY	1010	1	4	0.520
	43	91	0	26		SYLVAN LN	1010	1	0	1.170
	43	92	0	16		SYLVAN LN	1010	1	2	0.550
	43	93	0	18		SYLVAN LN	1010	1	3	1.360
	43	94	0	8		SYLVIAS WAY	1010	1	3	1.140
	43	95	0	22		SYLVAN LN	1300			1.260
	43	96	0	4		SYLVIAS WAY	1010	1	3	1.170
	43	97	0	27		SYLVAN LN	1010	1	2	0.500
	43	98	0	29		SYLVAN LN	1010	1	4	0.640

	43	99	0	271		RT 6	1010	1	2	0.775	
	43	100	0	9		WHITMANVILLE RD	1010	1	3	0.510	
	43	102	0	7		SYLVAN LN	1010	1	4	0.660	
	43	104	0	3		TURNBUCKLE WAY	1010	1	2	2.000	
	43	105	0	7		TURNBUCKLE WAY	1300			1.923	
	43	106	0	6		TURNBUCKLE WAY	1010	1	3	1.845	
	43	106	0	6		TURNBUCKLE WAY	1010	2	1	1.845	
	43	107	0	2		TURNBUCKLE WAY	1010	1	3	1.920	
	43	108	0	23		SYLVAN LN	1010	1	4	0.840	
	43	109	0	25		SYLVAN LN	1040	1	4	1.090	
	43	110	0	1		NELSON DR	1010	1	5	0.780	
	43	111	0	3		NELSON DR	1010	1	2	0.770	
	43	113	0	10		POMPS LOT RD	1320			0.920	
	43	114	0	5		POMPS LOT RD	1320			0.862	
	43	115	0	14		SYLVAN LN	1010	1	3	0.590	
	43	116	0	296		RT 6	3010	1	0	1.010	
	43	116	0	296		RT 6	3010	2	0	1.010	
	43	117	0	146		OLD KINGS HWY	9000			1.650	
	43	118	0	40		LONGNOOK RD	1010	1	3	4.910	
	43	119	0	50		LONGNOOK RD	1090	1	3	3.000	
	43	119	0	50		LONGNOOK RD	1090	2	2	3.000	
	43	120	0	38		LONGNOOK RD	1010	1	3	0.990	
	43	121	0	30		LONGNOOK RD	1090	1	1	0.810	
	43	121	0	30		LONGNOOK RD	1090	2	1	0.810	
	43	122	0	31		LONGNOOK RD	1010	1	4	3.200	
	43	123	0	18		LONGNOOK RD	1010	1	4	1.180	
	43	124	0	21		LONGNOOK RD	1010	1	3	1.280	
	43	125	0	27		LONGNOOK RD	1090	1	2	1.990	
	43	125	0	27		LONGNOOK RD	1090	2	0	1.990	
	43	126	0	25		LONGNOOK RD	1010	1	3	3.350	
	43	127	0	12		HIGGINS HOLLOW RD	1010	1	3	3.490	
	43	128	0	16		HIGGINS HOLLOW RD	1040	1	4	3.200	
	43	129	0	2		HIGGINS HOLLOW RD	1010	1	5	1.840	
	43	130	0	5		SYLVAN LN	1010	1	2	0.900	
	43	131	0	5		MORRIS AVE	1010	1	3	1.000	
	43	132	0	3		WHITMANVILLE RD	1010	1	3	0.890	
	43	133	0	6		WALSH WAY	1010	1	2	0.450	
	43	134	0	5		WALSH WAY	0130	1	1	0.580	
	43	135	0	7		WALSH WAY	0130	1	2	3.280	
	43	135	0	7		WALSH WAY	0130	2	3	3.280	
	43	135	0	7		WALSH WAY	0130	3	3	3.280	
	43	136	0	3		SYLVAN LN	1010	1	2	0.770	
	43	137	0	15		WHITMANVILLE RD	1010	1	4	0.830	
	43	138	0	8		OVERLOOK DR	1300			0.780	
	43	139	0	12		OVERLOOK DR	1010	1	2	0.790	
	43	140	0	14		OVERLOOK DR	1040	1	3	0.840	
	43	141	0	16		OVERLOOK DR	1010	1	3	0.780	
	43	142	0	18		OVERLOOK DR	1010	1	4	0.780	
	43	143	0	2		SANDY LN	1010	1	2	0.780	
	43	144	0	4		SANDY LN	1010	1	4	0.780	
	43	145	0	1		SANDY LN	1010	1	3	0.780	
	43	146	0	22		OVERLOOK DR	1010	1	3	0.920	

	43	147	0	24		OVERLOOK DR	1010	1	4	0.940
	43	148	0	26		OVERLOOK DR	1010	1	4	0.890
	43	149	0	28		OVERLOOK DR	1010	1	3	0.890
	43	150	0	23		OVERLOOK DR	1010	1	4	2.210
	43	151	0	21		OVERLOOK DR	1010	1	4	1.340
	43	152	0	19		OVERLOOK DR	1010	1	4	1.190
	43	153	0	17		OVERLOOK DR	1010	1	3	0.930
	43	154	0	15		OVERLOOK DR	1010	1	3	0.930
	43	155	0	13		OVERLOOK DR	1010	1	5	0.840
	43	156	0	11		OVERLOOK DR	1010	1	3	0.840
	43	157	0	9		OVERLOOK DR	1010	1	3	0.910
	43	158	0	7		OVERLOOK DR	1010	1	3	1.160
	43	159	0	5		OVERLOOK DR	1010	1	5	0.850
	43	160	0	3		OVERLOOK DR	1010	1	3	0.850
	43	161	0	5		HOUSER WAY	1010	1	3	0.780
	43	163	0	9		MORRIS AVE	1010	1	3	0.840
	43	164	0	5		WHITMANVILLE RD	1010	1	3	0.810
	43	165	0	7		WHITMANVILLE RD	1300			0.810
	43	166	0	4		MORRIS AVE	1010	1	4	0.810
	43	167	0	6		MORRIS AVE	1010	1	3	0.810
	43	168	0	8		MORRIS AVE	1010	1	3	0.790
	43	169	0	10		MORRIS AVE	1010	1	3	0.790
	43	170	0	13		MORRIS AVE	1010	1	3	0.780
	43	171	0	15		MORRIS AVE	1010	1	3	0.780
	43	172	0	17		MORRIS AVE	1010	1	3	0.780
	43	173	0	18		MORRIS AVE	1300			0.790
	43	174	0	16		MORRIS AVE	1010	1	3	0.780
	43	175	0	2		SHORT LOTS LN	1010	1	3	0.800
	43	176	0	6		SHORT LOTS LN	1010	1	3	0.780
	43	177	0	8		SHORT LOTS LN	1010	1	4	0.990
	43	178	0	11		SHORT LOTS LN	1010	1	3	1.120
	43	179	0	5		SHORT LOTS LN	1010	1	4	0.800
	43	180	0	1		SHORT LOTS LN	1010	1	2	0.830
	43	181	0	6		NELSON DR	1300			0.700
	43	182	0	26		HIGGINS HOLLOW RD	1010	1	4	3.000
	43	183	0	5		QUAIL RIDGE RD	1300			0.780
	43	184	0	2		STORY BOOK LN	1300			0.780
	43	185	0	29		WHITMANVILLE RD	1090	1	1	0.780
	43	185	0	29		WHITMANVILLE RD	1090	2	1	0.780
	43	186	0	27		WHITMANVILLE RD	1300			0.780
	43	187	0	7		SYLVIAS WAY	1010	1	2	0.920
	43	188	0	3		MORRIS AVE	1010	1	3	0.780
	43	189	0	2		ANDREW WAY	1010	1	3	0.920
	43	190	0	4		ANDREW WAY	1300			0.920
	43	191	0	6		ANDREW WAY	1300			0.920
	43	192	0	5		ANDREW WAY	1040	1	5	1.160
	43	193	0	1		LEEWARD PASSAGE	1010	1	4	0.920
	43	194	0	3		LEEWARD PASSAGE	1300			0.940
	43	195	0	6		SANDY LN	1010	1	3	0.930
	43	196	0	8		SANDY LN	1300			0.920
	43	197	0	10		SANDY LN	1010	1	4	0.920
	43	198	0	12		SANDY LN	1010	1	4	1.170

	43	199	0	11		SANDY LN	1010	1	4	2.270
	43	200	0	9		SANDY LN	1010	1	3	1.530
	43	201	0	7		SANDY LN	1300			0.920
	43	202	0	5		SANDY LN	1010	1	3	0.920
	43	203	0	3		SANDY LN	1010	1	4	0.920
	43	204	0	1		MORRIS AVE	1010	1	3	0.920
	43	205	0	116		CASTLE RD	1010	1	4	0.920
	43	206	0	19		WHITMANVILLE RD	1010	1	3	1.080
	43	207	0	23		WHITMANVILLE RD	1300			0.920
	43	208	0	16		LONGNOOK RD	9000			0.750
	43	209	0	26		LONGNOOK RD	9000	1	2	14.700
	43	210	0	1	A	SHORT LOTS LN	1320			0.020
	43	211	0	4		LILY LN	1300			0.920
	43	212	0	2		LILY LN	1300			1.260
	43	213	0	1		LILY LN	1300			1.020
	43	214	0	3		LILY LN	1010	1	4	1.150
	43	215	0	5		LILY LN	1300			0.920
	43	216	0	7		LILY LN	1300			0.920
	43	217	0	10		LILY LN	1300			0.830
	43	218	0	8		LILY LN	1300			0.820
	43	219	0	6		LILY LN	1300			0.930
	43	220	0	12		WHITMANVILLE RD	1300			0.777
	43	221	0	10		WHITMANVILLE RD	1300			0.920
	43	222	0	8		WHITMANVILLE RD	1300			0.782
	43	223	0	6		WHITMANVILLE RD	1060			0.779
	43	224	0	273		RT 6	1300			0.920
	44	1	0	103		LONGNOOK RD	9300			0.180
	44	2	0	13		DOROTHYS LN	1010	1	2	3.070
	44	3	0	11		DOROTHYS LN	1010	1	2	3.100
	44	4	0	8		DOROTHYS LN	1090	1	3	3.520
	44	4	0	8		DOROTHYS LN	1090	2	2	3.520
	44	5	0	105		LONGNOOK RD	9000			5.300
	44	6	0	105		HIGGINS HOLLOW RD	9000			5.360
	44	7	0	51		LONGNOOK RD	1010	1	4	3.390
	44	8	0	32		HIGGINS HOLLOW RD	1010	1	2	1.240
	44	9	0	45		HIGGINS HOLLOW RD	1010	1	3	1.700
	44	10	0	75		HIGGINS HOLLOW RD	9300			2.920
	44	11	0	80		LONGNOOK RD	9000	1	2	162.000
	44	12	0	92		LONGNOOK RD	9000	1	2	4.000
	44	13	0	9		UNCLE IRVS WAY	9000	1	4	6.700
	45	5	0	5		MARYS WAY	1320			0.610
	45	6	0	6		MARYS WAY	1090	1	4	1.700
	45	6	0	6		MARYS WAY	1090	2	1	1.700
	45	9	0	6		OLD COLONY WAY	9500			2.880
	45	10	0	9		HIGH RIDGE RD	1010	1	3	0.780
	45	11	0	11		HIGH RIDGE RD	1010	1	3	0.810
	45	13	0	6		PAYOMET LN	1090	1	4	1.170
	45	13	0	6		PAYOMET LN	1090	2	1	1.170
	45	14	0	1		PAYOMET LN	1010	1	3	0.840
	45	15	0	19		CORN HILL LNDG	1300			0.840
	45	16	0	17		CORN HILL LNDG	1010	1	3	0.840
	45	17	0	2		ELIANTHA LN	1010	1	4	0.840

	45	18	0	4		PAYOMET LN	1010	1	3	1.210
	45	18	0	4		PAYOMET LN	1010	2	1	1.210
	45	19	0	23		CORN HILL LNDG	1010	1	3	1.420
	45	20	0	18		CORN HILL LNDG	1300			0.800
	45	21	0	16		CORN HILL LNDG	1010	1	4	0.840
	45	22	0	14		CORN HILL LNDG	1010	1	3	0.780
	45	23	0	13		CORN HILL LNDG	1010	1	4	0.790
	45	24	0	3		CORN HILL PATH	1010	1	4	1.510
	45	25	0	2		CORN HILL PATH	1010	1	4	1.750
	45	26	0	12		CORN HILL LNDG	1010	1	3	0.810
	45	27	0	11		CORN HILL LNDG	1010	1	4	0.800
	45	28	0	6		CORN HILL LNDG	1010	1	4	1.490
	45	29	0	5		CORN HILL LNDG	1010	1	3	0.790
	45	30	0	7		CORN HILL LNDG	1010	1	3	0.790
	45	31	0	9		CORN HILL LNDG	1010	1	4	0.790
	45	32	0	4		CORN HILL LNDG	1010	1	4	1.430
	45	33	0	2		JILLMAR LN	1010	1	3	0.800
	45	34	0	6		JILLMAR LN	1010	1	3	0.950
	45	35	0	0		CORN HILL RD	1320			6.650
	45	36	0	2		CORN HILL LNDG	1010	1	7	1.680
	45	37	0	57		CORN HILL RD	1300			1.000
	45	38	3	8	C	SECOND LANDING WAY	1020	1	4	0.000
	45	38	5	62		CORN HILL RD	1020	1	4	0.000
	45	38	6	62		CORN HILL RD	1020	1	2	0.000
	45	38	7	62		CORN HILL RD	1020	1	2	0.000
	45	38	8	62		CORN HILL RD	1020	1	2	0.000
	45	38	9	62		CORN HILL RD	1020	1	2	0.000
	45	38	10	62		CORN HILL RD	1020	1	2	0.000
	45	38	11	62		CORN HILL RD	1020	1	2	0.000
	45	38	12	62		CORN HILL RD	1020	1	3	0.000
	45	38	16	8	A	SECOND LANDING WAY	1020	1	3	0.000
	45	38	17	8	B	SECOND LANDING WAY	1020	1	3	0.000
	45	38	18	62		CORN HILL RD	1020	1	1	0.000
	45	38	19	62		CORN HILL RD	1020	1	4	0.000
	45	39	0	1		SECOND LANDING WAY	1010	1	2	0.776
	45	40	0	55		CORN HILL RD	9500			0.980
	45	41	0	2		SECOND LANDING WAY	1010	1	3	0.604
	45	42	0	53		CORN HILL RD	1010	1	3	1.180
	45	43	0	6		SECOND LANDING WAY	1010	1	2	0.770
	45	44	0	4		CORN HILL LN	1010	1	3	0.710
	45	45	0	4		SECOND LANDING WAY	1010	1	3	0.540
	45	46	0	54		CORN HILL RD	1010	1	3	0.520
	45	47	0	2		CORN HILL LN	1010	1	3	0.560
	45	48	0	52		CORN HILL RD	1010	1	4	0.590
	45	49	1	39		CORN HILL RD	1020	1	3	0.000
	45	49	2	39		CORN HILL RD	1020	1	3	0.000
	45	49	3	39		CORN HILL RD	1020	1	3	0.000
	45	49	4	39		CORN HILL RD	1020	1	3	0.000
	45	49	5	39		CORN HILL RD	1020	1	3	0.000
	45	49	6	39		CORN HILL RD	1020	1	2	0.000
	45	49	7	39		CORN HILL RD	1020	1	3	0.000
	45	49	8	39		CORN HILL RD	1020	1	3	0.000

	45	49	9	39		CORN HILL RD	1020	1	3	0.000	
	45	49	10	39		CORN HILL RD	1020	1	3	0.000	
	45	49	11	39		CORN HILL RD	1020	1	2	0.000	
	45	49	12	39		CORN HILL RD	1020	1	3	0.000	
	45	50	0	48		CORN HILL RD	9300			9.180	
	45	51	0	35	A	CORN HILL RD	1320			0.020	
	45	52	0	42		CORN HILL RD	1010	1	1	1.280	
	45	54	0	8		HARDINGS WAY	1010	1	4	0.880	
	45	54	0	8		HARDINGS WAY	1010	2	1	0.880	
	45	55	0	13		PERRY RD	1010	1	2	0.780	
	45	56	0	9		PERRY RD	1010	1	3	0.780	
	45	58	0	19		RESOLUTION RD	1010	1	5	1.100	
	45	59	0	17		RESOLUTION RD	1010	1	3	1.000	
	45	60	0	15		RESOLUTION RD	1010	1	3	0.830	
	45	61	0	13		RESOLUTION RD	1010	1	3	0.830	
	45	62	0	11		RESOLUTION RD	1010	1	4	0.830	
	45	63	0	21		RESOLUTION RD	1300			0.900	
	45	64	0	23		RESOLUTION RD	1010	1	3	1.100	
	45	65	0	18		RESOLUTION RD	1010	1	2	0.950	
	45	66	0	16		RESOLUTION RD	1010	1	4	1.050	
	45	67	0	25		RESOLUTION RD	1010	1	4	1.200	
	45	68	0	22		RESOLUTION RD	1010	1	3	1.540	
	45	69	0	14		RESOLUTION RD	1010	1	5	3.210	
	45	69	0	14		RESOLUTION RD	1010	2	2	3.210	
	45	70	0	0		CORN HILL RD	9300			0.180	
	45	71	0	38		CORN HILL RD	1010	1	4	1.420	
	45	72	0	3		TOMS HILL PATH	1010	1	5	1.510	
	45	73	0	4		TOMS HILL PATH	1090	1	5	6.590	
	45	73	0	4		TOMS HILL PATH	1090	2	1	6.590	
	45	75	0	14		CORN HILL RD	1010	1	2	0.780	
	45	77	0	8		CORN HILL RD	1300			0.990	
	45	78	0	11		TOMS HILL PATH	1010	1	3	0.800	
	45	79	0	34		CORN HILL RD	1010	1	4	3.300	
	45	79	0	34		CORN HILL RD	1010	2	0	3.300	
	45	80	0	6		TOMS HILL PATH	1090	1	2	5.850	
	45	80	0	6		TOMS HILL PATH	1090	2	1	5.850	
	45	81	0	3		OUTWATER LN	1300			1.450	
	45	82	0	8		TOMS HILL PATH	1320			4.490	
	45	83	0	21		TOMS HILL RD	1010	1	4	3.600	
	45	84	0	27		TOMS HILL RD	1090	1	3	0.490	
	45	84	0	27		TOMS HILL RD	1090	2	2	0.490	
	45	85	0	25		TOMS HILL RD	1010	1	3	0.920	
	45	85	0	25		TOMS HILL RD	1010	2	1	0.920	
	45	86	0	26		TOMS HILL RD	1010	1	4	1.110	
	45	87	0	24		TOMS HILL RD	1010	1	4	1.050	
	45	88	0	0		CORN HILL RD	1320			1.240	
	45	90	0	11		CORN HILL RD	1320			1.700	
	45	91	0	7		CORN HILL RD	9500			1.000	
	45	92	0	37		CORN HILL RD	1010	1	1	0.160	
	45	93	0	4		JILLMAR LN	1090	1	4	0.940	
	45	93	0	4		JILLMAR LN	1090	2	1	0.940	
	45	94	0	5		JILLMAR LN	1010	1	5	1.180	

	45	95	0	11		PERRY RD	1090	1	2	0.780
	45	95	0	11		PERRY RD	1090	2	2	0.780
	45	96	0	64		CORN HILL RD	1090	1	4	1.770
	45	96	0	64		CORN HILL RD	1090	2	1	1.770
	45	100	0	14		TOMS HILL PATH	1300			0.780
	45	101	0	13		RYANS WAY	1010	1	3	1.280
	45	102	0	5		HIGH RIDGE RD EXT	1010	1	6	2.070
	45	104	0	10		OLD COLONY WAY	1300			0.910
	45	105	0	12		OLD COLONY WAY	1010	1	3	0.780
	45	106	0	14		OLD COLONY WAY	1010	1	4	0.770
	45	107	0	10		HIGH RIDGE RD EXT	1010	1	3	0.930
	45	108	0	8		HIGH RIDGE RD EXT	1010	1	4	0.800
	45	109	0	6		HIGH RIDGE RD EXT	1010	1	3	0.800
	45	110	0	4		HIGH RIDGE RD EXT	1010	1	4	1.330
	45	111	0	4		HARDINGS WAY	1300			0.780
	45	112	0	5		FIRST LIGHT LN	1010	1	4	1.160
	45	113	0	3		PERRY RD	1300			0.780
	45	114	0	31		TOMS HILL RD	1010	1	4	1.240
	45	115	0	7		PERRY RD	1010	1	4	0.780
	45	116	0	45		CORN HILL RD	1010	1	3	1.860
	45	117	0	9		RESOLUTION RD	1010	1	3	0.830
	45	118	0	40		CORN HILL RD	1010	1	3	1.650
	45	119	0	36		CORN HILL RD	1010	1	4	1.160
	45	120	0	0		CORN HILL RD	9510			0.060
	45	121	0	0		CORN HILL RD	9500			3.980
	45	122	0	1		MARYS WAY	1010	1	6	1.540
	45	123	0	3		MARYS WAY	1010	1	7	1.790
	45	124	0	4		MARYS WAY	1010	1	7	1.720
	45	125	0	2		MARYS WAY	1010	1	7	1.720
	45	126	0	16		PERRY RD	3170			34.570
	45	127	0	20		PERRY RD	3930			2.930
	45	128	0	10		FIRST LIGHT LN	1300			0.930
	45	129	0	12		FIRST LIGHT LN	1010	1	3	0.920
	45	130	0	7		FIRST LIGHT LN	1010	1	3	0.830
	45	131	0	23		PERRY RD	3900			9.700
	45	132	0	15		PERRY RD	0130	1	4	2.342
	45	133	0	18		PERRY RD	0130	1	0	4.830
	45	135	0	11		HARDINGS WAY	1010	1	5	1.201
	45	136	0	14		PERRY RD	3170			2.930
	45	137	0	10		PERRY RD	1010	1	3	0.780
	45	138	0	9		HARDINGS WAY	1010	1	4	1.236
	45	139	0	13		HARDINGS WAY	1300			0.921
	45	140	0	15		HARDINGS WAY	1300			0.921
	45	141	0	17		HARDINGS WAY	1300			0.775
	45	142	0	22		PERRY RD	3920			0.281
	45	143	0	25		PERRY RD	1010	1	2	1.018
	45	144	0	27		PERRY RD	1010	1	2	2.775
	45	145	0	1		OBBO DR	1300			0.919
	45	146	0	2		OBBO DR	1300			1.267
	46	1	0	105		CASTLE RD	1010	1	4	11.270
	46	2	0	4		PERRY RD	1010	1	2	0.919
	46	3	0	106		CASTLE RD	1010	1	3	1.107

	46	4	0	1		RESOLUTION RD	1010	1	2	1.020	
	46	6	0	270		RT 6	1010	1	3	2.957	
	46	7	0	97		CASTLE RD	1010	1	1	2.520	
	46	8	0	1		AMITY LN	1010	1	1	0.520	
	46	9	0	5		RESOLUTION RD	1010	1	4	0.820	
	46	11	0	91		CASTLE RD	1010	1	3	5.520	
	46	12	0	9		CASTLE TERR	3010	1	3	9.610	
	46	12	0	9		CASTLE TERR	3010	2	2	9.610	
	46	12	0	9		CASTLE TERR	3010	3	2	9.610	
	46	13	0	260		RT 6	1010	1	4	1.620	
	46	14	0	258		RT 6	1010	1	2	2.060	
	46	15	0	250		RT 6	3250	1	0	3.100	
	46	16	0	7		RESOLUTION RD	1010	1	3	0.830	
	46	17	0	2		JEANS WAY	1010	1	3	1.100	
	46	18	0	7		AMITY LN	1010	1	4	2.050	
	46	19	0	10		RESOLUTION RD	1300			0.920	
	46	20	0	4		JEANS WAY	1010	1	2	1.200	
	46	21	0	13		JOSEPHS RD	1010	1	4	0.580	
	46	22	0	11		JOSEPHS RD	1010	1	4	0.560	
	46	23	0	9		JOSEPHS RD	1010	1	3	0.560	
	46	24	0	7		JOSEPHS RD	1010	1	3	0.530	
	46	25	0	5		JOSEPHS RD	1040	1	3	0.530	
	46	26	0	3		JOSEPHS RD	1300			0.550	
	46	27	0	3		JEANS WAY	1300			1.420	
	46	28	0	81		CASTLE RD	1320			1.560	
	46	29	0	0		CASTLE RD	9500			11.930	
	46	30	0	18		JOSEPHS RD	1090	1	2	0.680	
	46	30	0	18		JOSEPHS RD	1090	2	1	0.680	
	46	31	0	2		ERICS RD	1010	1	3	0.570	
	46	32	0	14		JOSEPHS RD	1010	1	3	0.550	
	46	33	0	9		KINNIKINNICK RD	1010	1	3	1.070	
	46	35	0	5		KINNIKINNICK RD	1010	1	4	0.570	
	46	36	0	3		KINNIKINNICK RD	1010	1	3	0.550	
	46	37	0	4		JOSEPHS RD	1010	1	3	0.610	
	46	38	0	11		KINNIKINNICK RD	1010	1	3	0.520	
	46	39	0	8		KINNIKINNICK RD	1010	1	3	0.560	
	46	40	0	6		KINNIKINNICK RD	1010	1	3	0.550	
	46	41	0	4		KINNIKINNICK RD	1010	1	2	0.570	
	46	42	0	12		ERICS RD	1010	1	3	0.580	
	46	43	0	1		KINNIKINNICK RD	1010	1	3	0.570	
	46	44	0	0		CASTLE RD	9500			3.300	
	46	45	0	9		ERLINDA RD	1010	1	3	0.850	
	46	46	0	15		ERLINDA RD	1010	1	3	0.930	
	46	47	0	7		ERICS RD	1010	1	3	0.530	
	46	48	0	1		SOCIETY LN	1010	1	3	0.560	
	46	49	0	11		ERICS RD	1010	1	2	0.520	
	46	50	0	75		CASTLE RD	1010	1	3	1.200	
	46	51	0	73		CASTLE RD	1010	1	4	1.800	
	46	52	0	5		LITTLE PAMET WAY	1010	1	2	1.600	
	46	53	0	3		LITTLE PAMET WAY	1300			1.100	
	46	54	0	1		LITTLE PAMET WAY	1010	1	2	1.800	
	46	55	0	10		ERLINDA RD	1010	1	4	0.750	

	46	56	0	5	WARREN PL	1010	1	3	2.060	
	46	57	0	6	WARREN PL	1010	1	4	2.600	
	46	58	0	3	SOCIETY LN	1010	1	2	0.520	
	46	59	0	4	SOCIETY LN	9500			0.930	
	46	60	0	6	CORN HILL RD	1010	1	3	1.020	
	46	61	0	7	LITTLE PAMET WAY	1010	1	1	0.810	
	46	62	0	69	CASTLE RD	1300			0.810	
	46	63	0	2	LITTLE PAMET WAY	1010	1	4	0.930	
	46	64	0	6	ERLINDA RD	1010	1	3	0.950	
	46	65	0	7	ERLINDA RD	1010	1	3	1.270	
	46	66	0	16	GOSPEL PATH	1010	1	3	1.500	
	46	67	0	18	GOSPEL PATH	1090	1	3	1.600	
	46	67	0	18	GOSPEL PATH	1090	2	2	1.600	
	46	68	0	11	RYANS WAY	1010	1	2	0.930	
	46	69	0	9	RYANS WAY	1040	1	4	0.920	
	46	70	0	70	CASTLE RD	1300			13.040	
	46	71	0	1	ERLINDA RD	1010	1	3	0.520	
	46	72	0	6	GOSPEL PATH	1010	1	4	1.740	
	46	73	0	10	GOSPEL PATH	1010	1	3	1.500	
	46	74	0	14	GOSPEL PATH	1010	1	4	1.600	
	46	75	0	2	GRACE WAY	1010	1	3	0.670	
	46	76	0	11	GOSPEL PATH	1010	1	6	0.630	
	46	77	0	55	CASTLE RD	1010	1	4	2.270	
	46	78	0	10	RYANS WAY	9300			0.310	
	46	79	0	2	TOMS HILL RD	1010	1	3	3.030	
	46	80	0	1	SOUZAS WAY	1010	1	4	0.900	
	46	81	0	3	GOSPEL PATH	1010	1	5	0.950	
	46	82	0	5	GOSPEL PATH	1010	1	4	0.850	
	46	83	0	7	GOSPEL PATH	1010	1	4	1.100	
	46	84	0	4	GRACE WAY	1010	1	3	0.640	
	46	85	0	13	GOSPEL PATH	1010	1	3	0.860	
	46	86	0	20	GOSPEL PATH	1010	1	2	0.720	
	46	87	0	15	RYANS WAY	1300			0.980	
	46	88	0	8	RYANS WAY	1300			0.790	
	46	89	0	7	RYANS WAY	1010	1	4	0.780	
	46	90	0	3	GRACE WAY	1300			1.000	
	46	91	0	1	TRYWORKS RD	1300			0.820	
	46	92	0	15	GOSPEL PATH	1040	1	5	1.100	
	46	93	0	6	RYANS WAY	1010	1	4	0.950	
	46	94	0	5	RYANS WAY	1010	1	3	0.790	
	46	95	0	11	TOMS HILL RD	1010	1	2	0.920	
	46	96	0	8	TOMS HILL RD	1010	1	6	3.080	
	46	97	0	3	SOUZAS WAY	1010	1	3	1.170	
	46	98	0	7	SOUZAS WAY	1010	1	4	2.510	
	46	99	0	5	GRACE WAY	1010	1	4	3.500	
	46	100	0	3	TRYWORKS RD	1010	1	3	0.760	
	46	101	0	3	HOOKERS WAY	1010	1	3	0.970	
	46	101	0	3	HOOKERS WAY	1010	2	1	0.970	
	46	102	0	15	TOMS HILL RD	1010	1	3	1.360	
	46	103	0	6	TOMS HILL RD	1010	1	5	3.060	
	46	104	0	58	CASTLE RD	1090	1	3	3.760	
	46	104	0	58	CASTLE RD	1090	2	4	3.760	

	46	105	0	57		CASTLE RD	1300			0.962	
	46	107	0	16		TRYWORKS RD	1010	1	3	1.090	
	46	108	0	13		TRYWORKS RD	1010	1	3	1.440	
	46	108	0	13		TRYWORKS RD	1010	2	1	1.440	
	46	109	0	5		TRYWORKS RD	1010	1	2	0.970	
	46	110	0	4		TRYWORKS RD	1010	1	2	1.100	
	46	111	0	2		HOOKERS WAY	1300			0.930	
	46	112	0	1		RYANS WAY	1040	1	3	0.900	
	46	113	0	1		MOORINGS WAY	1010	1	2	4.190	
	46	114	0	6		MOORINGS WAY	1010	1	3	0.730	
	46	115	0	8		MOORINGS WAY	1010	1	1	0.650	
	46	117	0	2		RYANS WAY	1300			0.900	
	46	120	0	3		PETERSONS RD	1010	1	4	1.010	
	46	121	0	0		CASTLE RD	9500			6.240	
	46	122	0	54		CASTLE RD	9500			2.940	
	46	123	0	49	A	CASTLE RD	1010	1	3	2.300	
	46	124	0	14		TRYWORKS RD	1010	1	3	1.750	
	46	125	0	7		TRYWORKS RD	1010	1	3	1.300	
	46	126	0	6		TRYWORKS RD	1010	1	3	1.400	
	46	128	0	12		TRYWORKS RD	1010	1	3	1.770	
	46	130	0	10		TRYWORKS RD	1300			1.320	
	46	131	0	8		TRYWORKS RD	1010	1	3	1.140	
	46	133	0	9		LONGNOOK LN	1010	1	3	0.630	
	46	134	0	7		LONGNOOK LN	1010	1	3	0.530	
	46	135	0	5		LONGNOOK LN	1010	1	2	0.540	
	46	136	0	3		LONGNOOK LN	1010	1	3	0.590	
	46	137	0	8		LONGNOOK DR	1010	1	2	1.110	
	46	138	0	6		POMPS LOT RD	1320			1.177	
	46	139	0	12		LONGNOOK RD	1090	1	5	2.872	
	46	139	0	12		LONGNOOK RD	1090	2	1	2.872	
	46	139	0	12		LONGNOOK RD	1090	3	1	2.872	
	46	140	0	11		LONGNOOK RD	1320			1.256	
	46	141	0	15		LONGNOOK RD	1010	1	4	1.490	
	46	142	0	6		LONGNOOK LN	1300			0.700	
	46	143	0	4		LONGNOOK LN	1010	1	2	0.650	
	46	144	0	2		LONGNOOK LN	1040	1	3	0.620	
	46	145	0	3		LONGNOOK DR	1010	1	4	0.710	
	46	146	0	5		LONGNOOK DR	1010	1	3	0.620	
	46	147	0	4		POMPS LOT RD	1300			0.660	
	46	148	0	8		LONGNOOK RD	1300			0.570	
	46	149	0	259		RT 6	1010	1	4	1.240	
	46	150	0	1		LONGNOOK DR	1010	1	3	1.040	
	46	151	0	3		MARTINS WAY	1010	1	2	0.720	
	46	152	0	7		LONGNOOK RD	1090	1	2	0.520	
	46	152	0	7		LONGNOOK RD	1090	2	1	0.520	
	46	153	0	10		ATWOOD RD	1010	1	3	4.262	
	46	154	0	12		ATWOOD RD	1010	1	2	0.580	
	46	155	0	255		RT 6	1300			0.830	
	46	156	0	249		RT 6	1010	1	4	1.330	
	46	157	0	6		ATWOOD RD	1010	1	4	1.000	
	46	158	0	8		ATWOOD RD	1300			0.560	
	46	159	0	13		ATWOOD RD	1010	1	3	0.460	

	46	160	0	11		ATWOOD RD	1010	1	3	0.620
	46	161	0	9		ATWOOD RD	1010	1	3	1.100
	46	162	0	1		SCRIMSHAW ST	1010	1	5	1.380
	46	163	0	2		SCRIMSHAW ST	1010	1	4	0.550
	46	164	0	4		SCRIMSHAW ST	1010	1	2	0.540
	46	165	0	6		SCRIMSHAW ST	1010	1	3	0.530
	46	166	0	8		SCRIMSHAW ST	1010	1	4	0.540
	46	167	0	10		SCRIMSHAW ST	1010	1	3	0.530
	46	168	0	12		SCRIMSHAW ST	1010	1	3	0.530
	46	169	0	15		HIGGINS HOLLOW RD	1300			4.800
	46	171	0	12		HIGGINS WAY	1010	1	3	1.300
	46	172	0	11		HIGGINS WAY	1010	1	1	1.930
	46	173	0	3		HIGGINS WAY	1010	1	1	3.440
	46	174	0	7		ATWOOD RD	1010	1	4	1.190
	46	175	0	4		SHORT ST	1010	1	2	1.350
	46	176	0	3		SCRIMSHAW ST	1010	1	3	0.770
	46	177	0	1		FIRST DISCOVERY RD	1010	1	3	0.700
	46	178	0	2		FIRST DISCOVERY RD	1010	1	3	1.500
	46	179	0	9		SCRIMSHAW ST	1300			0.850
	46	180	0	10		HIGGINS WAY	1010	1	4	1.160
	46	181	0	8		HIGGINS WAY	1010	1	2	2.500
	46	182	0	5		FOURTH OF JULY RD	1010	1	2	0.850
	46	183	0	6		FOURTH OF JULY RD	1010	1	2	0.920
	46	184	0	5		ATWOOD RD	1010	1	5	1.190
	46	185	0	6		SNOWS RD	1300			0.810
	46	186	0	10		SNOWS RD	1010	1	3	0.860
	46	187	0	3		FIRST DISCOVERY RD	1300			0.780
	46	189	0	16		SNOWS RD	1010	1	1	0.690
	46	190	0	8		FOURTH OF JULY RD	1010	1	4	2.350
	46	192	0	1		ATWOOD RD	1090	1	1	1.740
	46	192	0	1		ATWOOD RD	1090	2	2	1.740
	46	193	0	2		SNOWS RD	1320			0.230
	46	194	0	5		FIRST DISCOVERY RD	1010	1	3	0.840
	46	195	0	14		SNOWS RD	1010	1	3	0.590
	46	196	0	19		SNOWS RD	1010	1	3	0.840
	46	198	0	7		SNOWS RD	1010	1	2	0.760
	46	199	0	9		SNOWS RD	1010	1	3	0.830
	46	200	0	11		SNOWS RD	1010	1	3	0.880
	46	202	0	15		SNOWS RD	1010	1	3	0.920
	46	204	0	8		STONEY HILL RD	1010	1	2	1.210
	46	205	0	231		RT 6	1010	1	1	0.690
	46	205	0	231		RT 6	1010	2	1	0.690
	46	207	0	6		HELENS WAY	1040	1	3	0.630
	46	209	0	225		RT 6	1090	1	2	2.430
	46	209	0	225		RT 6	1090	2	1	2.430
	46	210	0	236		RT 6	9500			0.560
	46	211	0	242		RT 6	1010	1	1	0.920
	46	212	0	11		BLACKFISH RD	1090	1	3	1.250
	46	212	0	11		BLACKFISH RD	1090	2	1	1.250
	46	213	0	9		BLACKFISH RD	1300			0.950
	46	214	0	7		BLACKFISH RD	1010	1	4	0.810
	46	214	0	7		BLACKFISH RD	1010	2	1	0.810

	46	215	0	222		RT 6	9500			4.607	
	46	216	0	8		BLACKFISH RD	1010	1	2	0.690	
	46	217	0	6		BLACKFISH RD	1010	1	5	0.870	
	46	218	0	5		BLACKFISH RD	1010	1	3	1.110	
	46	219	0	0		BRIDGE RD	9600			4.160	
	46	221	0	47		TRURO CENTER RD	1090	1	4	0.830	
	46	221	0	47		TRURO CENTER RD	1090	2	1	0.830	
	46	222	0	14		BAYBERRY LN	1010	1	3	1.300	
	46	223	0	12		BAYBERRY LN	1010	1	3	1.130	
	46	224	0	10		BAYBERRY LN	1010	1	4	1.080	
	46	225	0	8		BAYBERRY LN	1010	1	3	0.720	
	46	226	0	6		BAYBERRY LN	1090	1	3	0.640	
	46	226	0	6		BAYBERRY LN	1090	2	1	0.640	
	46	227	0	22		GOSPEL PATH	1010	1	3	0.980	
	46	228	0	24		GOSPEL PATH	1010	1	3	0.820	
	46	228	0	24		GOSPEL PATH	1010	2	1	0.820	
	46	229	0	4		BLACKFISH RD	1010	1	1	0.899	
	46	230	0	3		BLACKFISH RD	1010	1	4	0.830	
	46	231	0	4		LESSER LN	1010	1	3	1.557	
	46	231	0	4		LESSER LN	1010	2	1	1.557	
	46	232	0	6		LESSER LN	1010	1	2	1.000	
	46	232	0	6		LESSER LN	1010	2	1	1.000	
	46	233	0	17		GOSPEL PATH	1010	1	3	1.300	
	46	234	0	11		SNOWS FIELD RD	1010	1	3	0.800	
	46	235	0	2		BLACKFISH RD	1010	1	2	0.860	
	46	236	0	7		SNOWS FIELD RD	1010	1	3	1.000	
	46	237	0	3		LESSER LN	1010	1	3	0.610	
	46	238	0	3		SNOWS FIELD RD	1090	1	4	1.410	
	46	238	0	3		SNOWS FIELD RD	1090	2	1	1.410	
	46	240	0	0		SNOWS FIELD RD	9300			1.120	
	46	242	0	4		BRIDGE RD	1010	1	2	0.780	
	46	244	0	206		RT 6	1010	1	3	1.070	
	46	245	0	14		SNOWS FIELD RD	9310	1	0	4.500	
	46	246	0	12		SNOWS FIELD RD	1010	1	2	0.910	
	46	247	0	10		SNOWS FIELD RD	1010	1	3	0.740	
	46	248	0	5		SNOWS FIELD RD	1010	1	3	0.670	
	46	249	0	6		SNOWS FIELD RD	1010	1	3	0.920	
	46	250	0	4		SNOWS FIELD RD	1010	1	3	0.850	
	46	251	0	38		MEETINGHOUSE RD	9300			0.240	
	46	252	0	8		BRIDGE RD	1010	1	3	0.790	
	46	253	0	6		BRIDGE RD	1010	1	2	1.460	
	46	254	0	22		MEETINGHOUSE RD	1300			1.940	
	46	255	0	24		MEETINGHOUSE RD	1300			1.200	
	46	256	0	5		GRANDPAS RD	1010	1	3	1.100	
	46	257	0	6		GRANDPAS RD	1010	1	2	0.940	
	46	258	0	8		SNOWS FIELD RD	1010	1	3	0.780	
	46	259	0	23		MEETINGHOUSE RD	1090	1	1	0.790	
	46	259	0	23		MEETINGHOUSE RD	1090	2	1	0.790	
	46	260	0	25		MEETINGHOUSE RD	1040	1	4	0.780	
	46	261	0	27		MEETINGHOUSE RD	1010	1	4	0.870	
	46	262	0	11		BRIDGE RD	1010	1	4	0.800	
	46	263	0	13		BRIDGE RD	1300			0.780	

	46	264	0	54		TRURO CENTER RD	1010	1	2	1.030	
	46	265	0	39		TRURO CENTER RD	1010	1	2	0.850	
	46	266	0	25		TOWN HALL RD	1040	1	3	1.380	
	46	267	0	21		TOWN HALL RD	1010	1	4	0.780	
	46	268	0	23		TOWN HALL RD	1300			0.780	
	46	269	0	24		TOWN HALL RD	9310	1	0	5.140	
	46	269	0	24		TOWN HALL RD	9310	2	0	5.140	
	46	269	0	24		TOWN HALL RD	9310	3	0	5.140	
	46	269	0	24		TOWN HALL RD	9310	4	0	5.140	
	46	270	0	15		TOWN HALL RD	1010	1	2	0.770	
	46	271	0	13		TOWN HALL RD	1300			0.810	
	46	272	0	11		TOWN HALL RD	1010	1	3	0.910	
	46	273	0	15		BRIDGE RD	1010	1	3	0.860	
	46	274	0	52		TRURO CENTER RD	1010	1	4	0.920	
	46	275	0	5		TOWN HALL RD	1010	1	2	1.520	
	46	276	0	14		BRIDGE RD	1010	1	2	1.140	
	46	277	0	20		TOWN HALL RD	9300			0.240	
	46	278	0	3		FIRST PARISH LN	9600	1	0	2.290	
	46	279	0	6		FIRST PARISH LN	1010	1	2	0.900	
	46	280	0	4		FIRST PARISH LN	1010	1	3	1.840	
	46	281	0	12		TOWN HALL RD	1010	1	5	1.100	
	46	282	0	10		TOWN HALL RD	1010	1	1	0.900	
	46	283	0	48		TRURO CENTER RD	0130	1	0	0.600	
	46	283	0	48		TRURO CENTER RD	0130	2	0	0.600	
	46	284	0	46		TRURO CENTER RD	1090	1	3	0.600	
	46	284	0	46		TRURO CENTER RD	1090	2	1	0.600	
	46	284	0	46		TRURO CENTER RD	1090	3	0	0.600	
	46	287	0	31		TRURO CENTER RD	1010	1	4	1.180	
	46	288	0	29		TRURO CENTER RD	1010	1	3	1.010	
	46	289	0	1		HIGGINS HOLLOW RD	1090	1	3	1.370	
	46	289	0	1		HIGGINS HOLLOW RD	1090	2	1	1.370	
	46	290	0	19		HIGGINS HOLLOW RD	1010	1	4	3.180	
	46	290	0	19		HIGGINS HOLLOW RD	1010	2	1	3.180	
	46	291	0	5		CORN HILL RD	1320			1.840	
	46	292	0	232		RT 6	1010	1	2	0.970	
	46	292	0	232		RT 6	1010	2	2	0.970	
	46	293	1	226		RT 6	1020	1	1	0.000	
	46	293	2	226		RT 6	1020	1	1	0.000	
	46	293	3	226		RT 6	1020	1	1	0.000	
	46	293	4	226		RT 6	1020	1	2	0.000	
	46	293	7	226		RT 6	1020	1	1	0.000	
	46	293	8	226		RT 6	1020	1	1	0.000	
	46	293	9	226		RT 6	1020	1	1	0.000	
	46	293	10	226		RT 6	1020	1	1	0.000	
	46	293	11	226		RT 6	1020	1	2	0.000	
	46	293	12	226		RT 6	1020	1	2	0.000	
	46	293	13	226		RT 6	1020	1	3	0.000	
	46	293	13	226		RT 6	1020	2	0	0.000	
	46	294	0	224		RT 6	1010	1	3	0.800	
	46	296	0	5		STONEY HILL RD	1010	1	4	1.000	
	46	298	0	2		JOSEPHS RD	1040	1	4	0.920	
	46	304	0	240		RT 6	1010	1	2	0.780	

	46	305	0	3		ERLINDA RD	1010	1	3	0.780	
	46	306	0	1		TOWN HALL RD	1010	1	4	0.780	
	46	308	0	15		MEETINGHOUSE RD	1010	1	3	0.780	
	46	310	0	112		CASTLE RD	1010	1	5	0.780	
	46	311	0	1		PERRY RD	1010	1	3	0.780	
	46	312	0	60		TRURO CENTER RD	1010	1	4	0.760	
	46	313	0	1		HELENS WAY	1010	1	2	0.790	
	46	314	0	3		HELENS WAY	1010	1	3	0.860	
	46	315	0	5		HELENS WAY	1300			0.890	
	46	316	0	4		HELENS WAY	1010	1	2	0.920	
	46	317	0	2		HELENS WAY	1010	1	3	0.850	
	46	318	0	2		STONEY HILL RD	1010	1	4	1.080	
	46	319	0	1		STONEY HILL RD	1010	1	3	0.780	
	46	320	0	3		GLACIER DR	1010	1	3	0.780	
	46	325	0	7		STONEY HILL RD	1010	1	3	0.790	
	46	326	0	12		GLACIER DR	1010	1	4	0.790	
	46	327	0	10		GLACIER DR	1300			0.890	
	46	328	0	6		GLACIER DR	1010	1	3	0.980	
	46	329	0	3		STONEY HILL RD	1010	1	3	0.920	
	46	330	0	16		STONEY HILL RD	1010	1	3	1.520	
	46	331	0	41	A	CASTLE RD	1010	1	1	3.060	
	46	332	0	4		WARREN PL	1300			0.780	
	46	333	0	13		TOMS HILL RD	1300			0.920	
	46	334	0	45		TRURO CENTER RD	1010	1	3	0.910	
	46	335	0	208		RT 6	1010	1	2	0.990	
	46	336	0	41		TRURO CENTER RD	1300			0.930	
	46	337	0	202		RT 6	1300			0.830	
	46	338	0	35		TRURO CENTER RD	1040	1	3	0.780	
	46	339	0	16		TOMS HILL RD	1010	1	2	0.780	
	46	340	0	18		TOMS HILL RD	9500			0.790	
	46	341	0	0		TOMS HILL RD	9500			0.850	
	46	342	0	20		TOMS HILL RD	1010	1	2	2.130	
	46	343	0	22		TOMS HILL RD	1010	1	1	0.970	
	46	344	0	8		PERRY RD	1010	1	3	0.780	
	46	347	0	3		SNOWS RD	1010	1	4	0.980	
	46	348	0	5		SNOWS RD	1010	1	3	0.980	
	46	349	0	5	A	SNOWS RD	1010	1	3	0.940	
	46	350	0	4		SOUZAS WAY	1010	1	3	1.670	
	46	351	0	4		TOWN HALL RD	1040	1	4	0.780	
	46	352	0	194		RT 6	1010	1	3	0.780	
	46	353	0	89		CASTLE RD	1320			0.780	
	46	354	0	0		CASTLE RD	9500			5.980	
	46	355	0	5		AMITY LN	1010	1	1	0.890	
	46	356	0	7		GLACIER DR	1010	1	3	1.090	
	46	357	0	9		GLACIER DR	1010	1	3	0.810	
	46	358	0	11		GLACIER DR	1010	1	3	0.800	
	46	359	0	13		GLACIER DR	1010	1	3	0.830	
	46	360	0	6		SHORT ST	1010	1	4	1.030	
	46	361	0	102		CASTLE RD	1300			2.120	
	46	362	0	96		CASTLE RD	1060			2.890	
	46	363	0	92		CASTLE RD	1300			2.780	
	46	364	0	4		LEFT HANDED RD	1010	1	5	1.855	

	46	365	0	3		LEFT HANDED RD	1300			2.150	
	46	366	0	1		LEFT HANDED RD	1010	1	4	1.200	
	46	367	0	6		LONGNOOK DR	1300			0.290	
	46	368	0	6		KNIGHTS WAY	1010	1	4	1.150	
	46	369	0	8		KNIGHTS WAY	1090	1	4	1.150	
	46	369	0	8		KNIGHTS WAY	1090	2	1	1.150	
	46	370	0	13		SNOWS RD	1010	1	3	1.050	
	46	371	0	51		CASTLE RD	1010	1	5	4.820	
	46	372	0	4		ATWOOD RD	1300			2.790	
	46	373	0	110		CASTLE RD	1010	1	4	0.920	
	46	374	0	236	A	RT 6	9500			2.250	
	46	375	0	238		RT 6	9300			6.000	
	46	376	0	2		ADAMS WAY	1010	1	5	1.160	
	46	378	0	47		CASTLE RD	9500			1.150	
	46	379	0	5		GLACIER DR	1010	1	3	0.780	
	46	380	0	3		MARSH LN	1040	1	5	1.200	
	46	381	0	4		MARSH LN	1300			1.030	
	46	382	0	49		CASTLE RD	1300			0.880	
	46	383	0	1		TILLIE WAY	1300			0.990	
	46	384	0	99		CASTLE RD	1300			0.780	
	46	385	0	101		CASTLE RD	1300			3.980	
	46	386	0	274		RT 6	1010	1	4	0.921	
	47	1	0	35		HIGGINS HOLLOW RD	1010	1	3	1.010	
	47	2	0	35	A	HIGGINS HOLLOW RD	1300			5.740	
	47	3	0	71		OLD KINGS HWY	1010	1	3	1.920	
	47	4	0	3		FOURTH OF JULY RD	1010	1	2	0.540	
	47	5	0	1		FOURTH OF JULY RD	1010	1	3	0.540	
	47	6	0	67		OLD KINGS HWY	1300			4.720	
	47	7	0	4		FOURTH OF JULY RD	1010	1	3	0.520	
	47	8	0	2		FOURTH OF JULY RD	1010	1	3	0.550	
	47	9	0	63	A	OLD KINGS HWY	1320			3.030	
	47	10	0	68		OLD KINGS HWY	1010	1	3	1.310	
	47	11	0	13		BAYBERRY LN	1010	1	3	0.600	
	47	12	0	1		CRANBERRY LN	1010	1	3	0.700	
	47	13	0	2		CRANBERRY LN	1010	1	3	1.310	
	47	14	0	4		CRANBERRY LN	1010	1	3	0.760	
	47	15	0	8		QUAIL RUN	1010	1	4	2.140	
	47	16	0	10		DEER PATH	1040	1	1	1.080	
	47	17	0	8		DEER PATH	1010	1	3	0.840	
	47	18	0	7		DEER PATH	1010	1	2	0.840	
	47	19	0	5		DEER PATH	1010	1	3	0.810	
	47	20	0	54	A	OLD KINGS HWY	1320			3.350	
	47	21	0	32		UNION FIELD RD	1300			2.650	
	47	22	0	11		BAYBERRY LN	1010	1	2	0.700	
	47	23	0	3		CRANBERRY LN	1010	1	3	0.620	
	47	24	0	5		CRANBERRY LN	1010	1	3	0.660	
	47	25	0	6		CRANBERRY LN	1010	1	3	0.650	
	47	26	0	6		QUAIL RUN	1010	1	3	0.620	
	47	27	0	5		QUAIL RUN	1010	1	4	0.650	
	47	28	0	6		GROUSE RUN	1010	1	4	0.810	
	47	29	0	5		GROUSE RUN	1010	1	3	0.780	
	47	30	0	6		DEER PATH	1010	1	4	0.620	

	47	31	0	3		DEER PATH	1010	1	3	0.600
	47	32	0	26		UNION FIELD RD	1010	1	4	1.480
	47	33	0	28		UNION FIELD RD	1010	1	3	0.730
	47	34	0	4		UNION FIELD END	1090	1	3	0.920
	47	34	0	4		UNION FIELD END	1090	2	1	0.920
	47	35	0	9		BAYBERRY LN	1010	1	5	0.670
	47	36	0	7		BAYBERRY LN	1010	1	3	0.620
	47	37	0	7		CRANBERRY LN	1010	1	2	0.690
	47	38	0	8		CRANBERRY LN	1010	1	3	0.630
	47	39	0	4		QUAIL RUN	1010	1	3	0.660
	47	40	0	3		QUAIL RUN	1010	1	2	0.550
	47	41	0	4		GROUSE RUN	1010	1	2	0.580
	47	42	0	3		GROUSE RUN	1010	1	2	0.520
	47	43	0	4		DEER PATH	1010	1	2	0.650
	47	44	0	24		UNION FIELD RD	1010	1	3	0.690
	47	45	0	1		BLACKBERRY RD	1010	1	3	0.902
	47	46	0	29		UNION FIELD RD	1010	1	5	1.300
	47	47	0	33		UNION FIELD RD	1300			0.900
	47	48	0	5		BAYBERRY LN	1010	1	3	0.590
	47	49	0	9		CRANBERRY LN	1010	1	3	0.740
	47	50	0	10		CRANBERRY LN	1010	1	3	0.610
	47	51	0	10		UNION FIELD RD	1010	1	3	0.620
	47	52	0	2		QUAIL RUN	1010	1	4	0.530
	47	53	0	1		QUAIL RUN	1010	1	3	0.580
	47	54	0	2		GROUSE RUN	1010	1	4	0.520
	47	55	0	1		GROUSE RUN	1010	1	3	1.090
	47	57	0	2		DEER PATH	1300			0.530
	47	58	0	21		UNION FIELD RD	1010	1	4	1.010
	47	59	0	23		UNION FIELD RD	1010	1	3	1.190
	47	59	0	23		UNION FIELD RD	1010	2	1	1.190
	47	60	0	3		BLACKBERRY RD	1010	1	3	0.776
	47	61	0	6		RABBIT HILL RD	1010	1	3	0.775
	47	62	0	5		BLACKBERRY RD	1010	1	2	1.083
	47	63	0	35		UNION FIELD RD	1010	1	4	0.410
	47	64	0	4		BAYBERRY LN	1010	1	2	0.530
	47	65	0	2		BAYBERRY LN	1010	1	2	0.530
	47	66	0	3		BAYBERRY LN	1010	1	3	0.590
	47	67	0	1		BAYBERRY LN	1010	1	3	0.630
	47	67	0	1		BAYBERRY LN	1010	2	1	0.630
	47	68	0	11		CRANBERRY LN	1010	1	2	0.930
	47	69	0	12		CRANBERRY LN	1010	1	3	0.530
	47	71	0	13		CRANBERRY LN	1010	1	3	3.600
	47	72	0	17		CRANBERRY LN	1010	1	3	1.150
	47	73	0	9		UNION FIELD RD	1300			1.060
	47	74	0	16		CRANBERRY LN	1300			0.870
	47	75	0	18		CRANBERRY LN	1010	1	3	0.870
	47	76	0	15		UNION FIELD RD	1010	1	3	2.500
	47	77	0	2		NEIGHBOR LN	1010	1	4	1.840
	47	78	0	6		NEIGHBOR LN	1010	1	1	1.880
	47	79	0	7		RABBIT HILL RD	1010	1	4	1.380
	47	80	0	9		RABBIT HILL RD	1300			1.840
	47	81	0	2		BLUEBERRY LN	1010	1	4	1.100

	47	82	0	1	BLUEBERRY LN	1010	1	4	1.070	
	47	83	0	2	HUCKLEBERRY LN	1010	1	3	1.010	
	47	84	0	4	BLUEBERRY LN	1300			1.030	
	47	85	0	3	BLUEBERRY LN	1010	1	3	1.110	
	47	86	0	4	HUCKLEBERRY LN	1010	1	2	1.110	
	47	87	0	6	BLUEBERRY LN	1300			0.990	
	47	88	0	5	BLUEBERRY LN	1010	1	4	1.140	
	47	89	0	6	HUCKLEBERRY LN	1010	1	3	1.070	
	47	91	0	11	SWALE WAY	1300			1.410	
	47	92	0	12	SWALE WAY	1300			1.520	
	47	93	0	5	AVERY HILL WAY	1010	1	4	1.030	
	47	94	0	3	AVERY HILL WAY	1010	1	2	0.970	
	47	94	0	3	AVERY HILL WAY	1010	2	1	0.970	
	47	95	0	6	SWALE WAY	1010	1	3	1.210	
	47	95	0	6	SWALE WAY	1010	2	1	1.210	
	47	96	0	5	SWALE WAY	1010	1	3	1.410	
	47	97	0	20	AVERY WAY	1010	1	3	1.270	
	47	98	0	13	RABBIT HILL RD	1010	1	3	2.040	
	47	99	0	8	AVERY HILL WAY	1300			0.900	
	47	100	0	6	AVERY HILL WAY	1010	1	4	0.920	
	47	101	0	4	AVERY HILL WAY	1010	1	4	0.990	
	47	102	0	2	SWALE WAY	1010	1	3	0.870	
	47	103	0	3	SWALE WAY	1010	1	5	1.320	
	47	104	0	5	DYER RD	1010	1	2	1.440	
	47	105	0	3	DYER RD	1010	1	3	1.340	
	47	106	0	1	HUCKLEBERRY LN	1300			1.340	
	47	107	0	3	HUCKLEBERRY LN	1010	1	3	1.850	
	47	108	0	24	NO PAMET RD	1010	1	3	1.990	
	47	108	0	24	NO PAMET RD	1010	2	1	1.990	
	47	109	0	15	AVERY WAY	1010	1	4	1.990	
	47	110	0	17	AVERY WAY	1300			1.720	
	47	111	0	19	AVERY WAY	1010	1	4	1.080	
	47	112	0	8	DYER RD	1010	1	1	1.480	
	47	113	0	6	DYER RD	1010	1	6	1.380	
	47	114	0	4	DYER RD	1300			1.090	
	47	115	0	2	DYER RD	1010	1	4	1.510	
	47	115	0	2	DYER RD	1010	2	1	1.510	
	47	116	0	63	OLD KINGS HWY	1300			1.470	
	47	117	0	57	OLD KINGS HWY	1300			2.660	
	47	118	0	47	OLD KINGS HWY	1320			0.090	
	47	119	0	50	OLD KINGS HWY	1010	1	1	0.690	
	47	120	0	54	OLD KINGS HWY	1010	1	3	6.270	
	47	121	0	64	OLD KINGS HWY	1300			6.980	
	47	122	0	18	STONEY HILL RD	1300			5.670	
	47	123	0	48	OLD KINGS HWY	1060			2.250	
	47	124	0	16	DYERS HOLLOW RD	9000			20.740	
	47	125	0	7	DYERS HOLLOW RD	1010	1	3	4.100	
	47	125	0	7	DYERS HOLLOW RD	1010	2	2	4.100	
	47	126	0	18	OLD KINGS HWY	1090	1	1	3.630	
	47	126	0	18	OLD KINGS HWY	1090	2	2	3.630	
	47	127	0	74	NO PAMET RD	1090	1	3	4.180	
	47	127	0	74	NO PAMET RD	1090	2	2	4.180	

	47	128	0	70		NO PAMET RD	1010	1	5	1.880	
	47	129	0	81		NO PAMET RD	1010	1	4	2.430	
	47	130	0	83		NO PAMET RD	1010	1	4	1.530	
	47	130	0	83		NO PAMET RD	1010	2	1	1.530	
	47	131	0	91		NO PAMET RD	1010	1	2	3.050	
	47	132	0	66		NO PAMET RD	1010	1	3	1.000	
	47	133	0	56		NO PAMET RD	1010	1	3	3.000	
	47	134	0	71		NO PAMET RD	1010	1	2	2.900	
	47	135	0	85		NO PAMET RD	1010	1	3	2.630	
	47	136	0	55		NO PAMET RD	1010	1	4	3.000	
	47	137	0	97		NO PAMET RD	1090	1	3	3.000	
	47	137	0	97		NO PAMET RD	1090	2	1	3.000	
	47	138	0	53		NO PAMET RD	1010	1	3	3.040	
	47	139	0	36		NO PAMET RD	1010	1	4	1.020	
	47	140	0	30		NO PAMET RD	1010	1	5	3.000	
	47	141	0	67		NO PAMET RD	1090	1	3	5.950	
	47	141	0	67		NO PAMET RD	1090	2	1	5.950	
	47	142	0	9		DEER PATH	1320			4.440	
	47	143	0	83	A	NO PAMET RD	1320			0.970	
	47	144	0	83	B	NO PAMET RD	1320			2.310	
	47	146	0	93		NO PAMET RD	1010	1	4	5.710	
	47	147	0	24		DYERS HOLLOW RD	9000	1	5	5.260	
	47	149	0	15		GLACIER DR	1010	1	3	0.920	
	47	150	0	16		GLACIER DR	1010	1	3	0.780	
	47	151	0	11		STONEY HILL RD	1010	1	4	0.960	
	47	152	0	13		STONEY HILL RD	1010	1	3	0.910	
	47	153	0	191		RT 6	1010	1	4	1.330	
	47	154	0	189		RT 6	1010	1	4	1.040	
	47	155	0	187		RT 6	9500			1.210	
	47	156	0	185		RT 6	1010	1	4	1.550	
	47	157	0	66		OLD KINGS HWY	1300			1.280	
	47	159	0	10		OLD KINGS HWY	9000			1.300	
	47	160	0	12		OLD KINGS HWY	9000			1.000	
	47	161	0	18		AVERY WAY	9500			0.780	
	47	162	0	67	A	NO PAMET RD	9000			5.470	
	47	163	0	26		NO PAMET RD	9500			1.650	
	47	164	0	34		NO PAMET RD	9500			0.780	
	47	167	0	11		UNION FIELD RD	9500			7.500	
	47	168	0	51		NO PAMET RD	1010	1	3	3.000	
	48	1	0	112		NO PAMET RD	1010	1	2	3.300	
	48	2	0	101		NO PAMET RD	1090	1	3	1.050	
	48	2	0	101		NO PAMET RD	1090	2	2	1.050	
	48	3	0	116		NO PAMET RD	1010	1	4	1.720	
	48	4	0	118		NO PAMET RD	1010	1	4	1.600	
	48	5	0	0		SO PAMET RD	9300			1.380	
	48	6	0	0		SO PAMET RD	9300			0.690	
	48	7	0	135		SO PAMET RD	1010	1	4	0.230	
	48	8	0	133		SO PAMET RD	1010	1	2	0.320	
	48	9	0	17		LONG DUNE LN	1010	1	3	4.920	
	48	10	0	15		LONG DUNE LN	1010	1	4	3.120	
	48	11	0	131		SO PAMET RD	1010	1	2	0.310	
	48	12	0	127		SO PAMET RD	1010	1	4	3.300	

	48	12	0	127		SO PAMET RD	1010	2	1	3.300
	48	13	0	119		SO PAMET RD	1090	1	6	3.300
	48	13	0	119		SO PAMET RD	1090	2	1	3.300
	48	14	0	13		LONG DUNE LN	1010	1	3	3.910
	48	15	0	5		HEAD-O-PAMET WAY	9000			0.800
	48	16	0	111		NO PAMET RD	9000	1	6	8.200
	49	1	0	0		CORN HILL RD	9300			6.610
	49	2	0	13		TOMS HILL PATH	1010	1	1	1.440
	49	5	0	15		TOMS HILL PATH	1010	1	3	0.380
	49	6	0	17		TOMS HILL PATH	1300			0.780
	49	7	0	35		TOMS HILL RD	1010	1	4	1.040
	49	8	0	33		TOMS HILL RD	1010	1	1	0.800
	49	9	0	39	A	TOMS HILL RD	1320			0.090
	49	10	0	39		TOMS HILL RD	1010	1	3	0.640
	49	10	0	39		TOMS HILL RD	1010	2	2	0.640
	49	11	0	37		TOMS HILL RD	1010	1	1	0.230
	49	12	0	36		TOMS HILL RD	1010	1	3	0.920
	49	14	0	38		TOMS HILL RD	1010	1	1	0.720
	49	15	0	28		TOMS HILL RD	1010	1	5	11.570
	49	16	0	0		PAMET HARBOR	9300			13.720
	49	17	0	0		PAMET RIVER RR BED	9300			5.170
	49	18	0	0		DEPOT RD - END	9300			1.700
	49	19	0	0		PAMET RIVER -MOUTH	9320			12.000
	49	21	0	0		GREAT HILLS RD - OFF	9500			8.630
	49	22	0	0		GREAT HILLS RD - OFF	9500			5.000
	49	23	0	22		GREAT HILLS RD	1010	1	3	0.520
	49	24	0	20		GREAT HILLS RD	1010	1	6	0.520
	49	25	0	24		GREAT HILLS RD	1010	1	4	0.600
	49	26	0	0		GREAT HILLS RD - OFF	9500			4.130
	49	27	0	26		GREAT HILLS RD	1010	1	4	0.610
	49	28	0	19		GREAT HILLS RD	1010	1	5	0.670
	49	29	0	21		GREAT HILLS RD	1010	1	4	0.660
	49	30	0	28		GREAT HILLS RD	1010	1	3	0.620
	49	31	0	0		PAMET RIVER -NO BANK	9300			19.010
	49	32	0	0		PAMET RIVER -NO BANK	9500			16.850
	49	33	0	0		PAMET RIVER -SO BANK	9300			3.400
	49	34	0	0		TOMS HILL RD	9300			4.130
	49	35	0	32		TOMS HILL RD	1010	1	5	1.150
	49	36	0	14		GREAT HILLS RD	1300			1.650
	49	37	0	16		GREAT HILLS RD	9500			15.240
	49	38	0	28	A	TOMS HILL RD	9500			1.000
	49	39	0	2		INDIAN NECK WAY	9500			0.920
	50	1	0	0		TOMS HILL RD	9500			2.900
	50	2	0	52		CASTLE RD	1090	1	4	14.920
	50	2	0	52		CASTLE RD	1090	2	5	14.920
	50	3	0	48		CASTLE RD	1010	1	3	2.330
	50	4	0	2		MEETINGHOUSE RD	0130	1	5	3.160
	50	4	0	2		MEETINGHOUSE RD	0130	2	1	3.160
	50	4	0	2		MEETINGHOUSE RD	0130	3	4	3.160
	50	4	0	2		MEETINGHOUSE RD	0130	4	5	3.160
	50	4	0	2		MEETINGHOUSE RD	0130	5	5	3.160
	50	4	0	2		MEETINGHOUSE RD	0130	6	4	3.160

	50	4	0	2		MEETINGHOUSE RD	0130	7	2	3.160	
	50	4	0	2		MEETINGHOUSE RD	0130	8	5	3.160	
	50	4	0	2		MEETINGHOUSE RD	0130	9	5	3.160	
	50	5	0	6		MEETINGHOUSE RD	1060			0.180	
	50	7	0	1	A	MEETINGHOUSE RD	1320			0.820	
	50	9	0	0		DEPOT RD	9300			0.070	
	50	10	0	73		DEPOT RD	1090	1	3	4.320	
	50	10	0	73		DEPOT RD	1090	2	1	4.320	
	50	11	0	71		DEPOT RD	1010	1	4	1.320	
	50	12	0	63		DEPOT RD	1010	1	2	5.710	
	50	13	0	8		HIGH PAMET RD	1010	1	3	2.220	
	50	14	0	6		HIGH PAMET RD	1010	1	4	5.450	
	50	18	0	75		DEPOT RD	9310	1	0	14.880	
	50	19	0	80		DEPOT RD	1010	1	2	0.530	
	50	20	0	3		YACHT CLUB RD	1010	1	3	0.530	
	50	21	0	5		YACHT CLUB RD	1010	1	1	0.560	
	50	22	0	78		DEPOT RD	1040	1	5	0.780	
	50	23	0	74		DEPOT RD	1010	1	4	1.870	
	50	24	0	72		DEPOT RD	1010	1	3	0.920	
	50	25	0	67		DEPOT RD	1010	1	4	0.660	
	50	26	0	65		DEPOT RD	1010	1	3	0.480	
	50	27	0	68		DEPOT RD	1010	1	4	0.320	
	50	28	0	66		DEPOT RD	1010	1	2	0.320	
	50	29	0	64		DEPOT RD	1010	1	4	0.780	
	50	30	0	62		DEPOT RD	1010	1	5	1.000	
	50	33	0	53		DEPOT RD	1090	1	3	1.150	
	50	33	0	53		DEPOT RD	1090	2	2	1.150	
	50	34	0	52		DEPOT RD	1320			0.640	
	50	35	0	45		DEPOT RD	1010	1	3	1.280	
	50	36	0	50		DEPOT RD	1010	1	4	1.360	
	50	37	0	7		YACHT CLUB RD	3840	1	0	3.120	
	50	39	0	40		MILL POND RD	1010	1	5	1.440	
	50	39	0	40		MILL POND RD	1010	2	1	1.440	
	50	40	0	20	B	MILL POND RD	1320			0.450	
	50	41	0	24	A	MILL POND RD	1320			2.290	
	50	44	0	15		MILL POND RD	1010	1	2	0.620	
	50	45	0	2		BAKER LN	1010	1	4	2.270	
	50	46	0	21	A	MILL POND RD	9300			3.210	
	50	47	0	2		MARIAN LN	1010	1	2	2.490	
	50	49	0	21		OLD COUNTY RD	1010	1	4	1.200	
	50	49	0	21		OLD COUNTY RD	1010	2	1	1.200	
	50	50	0	41		CASTLE RD	1010	1	2	0.750	
	50	51	0	37		CASTLE RD	1010	1	4	0.920	
	50	52	0	8		MEETINGHOUSE RD	1010	1	5	0.550	
	50	53	0	10		MEETINGHOUSE RD	9430	1	0	1.080	
	50	53	0	10		MEETINGHOUSE RD	9430	2	0	1.080	
	50	53	0	10		MEETINGHOUSE RD	9430	3	0	1.080	
	50	53	0	10		MEETINGHOUSE RD	9430	4	0	1.080	
	50	54	0	12		MEETINGHOUSE RD	1010	1	3	0.200	
	50	56	0	33		CASTLE RD	1090	1	4	0.910	
	50	56	0	33		CASTLE RD	1090	2	1	0.910	
	50	57	0	31		CASTLE RD	1010	1	3	0.950	

	50	58	0	13		MEETINGHOUSE RD	1010	1	3	0.780	
	50	59	0	32		TOWN HALL RD	1010	1	3	0.780	
	50	60	0	30		TOWN HALL RD	1010	1	3	1.110	
	50	61	0	28		TOWN HALL RD	1010	1	2	0.940	
	50	62	0	7		MEETINGHOUSE RD	1010	1	2	0.370	
	50	63	0	4		SLADE HILL RD	1090	1	3	0.650	
	50	63	0	4		SLADE HILL RD	1090	2	3	0.650	
	50	64	0	36		CASTLE RD	1010	1	3	0.630	
	50	65	0	1		CASTLE HILL LN	1010	1	3	0.800	
	50	66	0	32		CASTLE RD	1090	1	3	0.570	
	50	66	0	32		CASTLE RD	1090	2	1	0.570	
	50	67	0	30		CASTLE RD	1010	1	3	0.709	
	50	68	0	28		CASTLE RD	1010	1	2	0.370	
	50	68	0	28		CASTLE RD	1010	2	1	0.370	
	50	69	0	1		MEETINGHOUSE RD	1010	1	2	0.230	
	50	70	0	3		MEETINGHOUSE RD	1010	1	1	0.110	
	50	71	0	5		MEETINGHOUSE RD	1010	1	4	0.235	
	50	72	0	6		SLADE HILL RD	1090	1	4	1.800	
	50	72	0	6		SLADE HILL RD	1090	2	1	1.800	
	50	73	0	8		CASTLE HILL LN	1010	1	4	0.580	
	50	74	0	6		CASTLE HILL LN	1090	1	3	1.050	
	50	74	0	6		CASTLE HILL LN	1090	2	2	1.050	
	50	75	0	1		BRIDGE LN	1010	1	3	1.740	
	50	76	0	3		BRIDGE LN	1090	1	5	1.550	
	50	76	0	3		BRIDGE LN	1090	2	1	1.550	
	50	77	0	4		BRIDGE LN	1010	1	4	1.760	
	50	78	0	22		CASTLE RD	1010	1	4	1.000	
	50	79	0	5		SLADE HILL RD	1010	1	1	1.000	
	50	80	0	9		SLADE HILL RD	1010	1	2	1.700	
	50	81	0	12		SLADE HILL RD	1010	1	1	0.880	
	50	82	0	10		CASTLE HILL LN	1010	1	3	0.530	
	50	83	0	6		BRIDGE LN	1090	1	4	2.570	
	50	83	0	6		BRIDGE LN	1090	2	1	2.570	
	50	83	0	6		BRIDGE LN	1090	3	1	2.570	
	50	84	0	43		DEPOT RD	1010	1	4	1.540	
	50	85	0	6		SECOR LN	1300			1.160	
	50	86	0	41		DEPOT RD	1010	1	3	2.050	
	50	86	0	41		DEPOT RD	1010	2	1	2.050	
	50	87	0	8		SECOR LN	1010	1	2	1.430	
	50	88	0	37		DEPOT RD	1010	1	3	0.960	
	50	89	0	9		SO BRIDGE PATH	1040	1	4	2.340	
	50	90	0	4		SO BRIDGE PATH	1010	1	2	1.650	
	50	92	0	31		DEPOT RD	1010	1	3	1.680	
	50	93	0	4		DEPOT LN	1010	1	2	0.870	
	50	94	0	6		DEPOT LN	1010	1	4	1.680	
	50	95	0	5		DEPOT LN	1090	1	2	1.720	
	50	95	0	5		DEPOT LN	1090	2	2	1.720	
	50	97	0	3		DEPOT LN	1010	1	3	1.390	
	50	98	0	2		MARIA ROSE PATH	1010	1	3	0.925	
	50	99	0	42		DEPOT RD	0130	1	4	1.280	
	50	99	0	42		DEPOT RD	0130	2	3	1.280	
	50	99	0	42		DEPOT RD	0130	3	4	1.280	

	50	100	0	5		OLD COUNTY RD	1090	1	2	0.370	
	50	100	0	5		OLD COUNTY RD	1090	2	1	0.370	
	50	101	0	38		DEPOT RD	1010	1	5	1.470	
	50	102	0	22		OLD COUNTY RD	1010	1	3	1.110	
	50	103	0	1		ATWOOD LN	1010	1	4	0.700	
	50	104	0	18		OLD COUNTY RD	1010	1	4	3.900	
	50	105	0	12		OLD COUNTY RD	1010	1	3	0.340	
	50	106	0	10		OLD COUNTY RD	1300			1.660	
	50	108	0	4		OLD COUNTY RD	1010	1	5	1.930	
	50	108	0	4		OLD COUNTY RD	1010	2	1	1.930	
	50	109	0	2		OLD BRIDGE RD	1320			0.110	
	50	110	0	1		HOLSBERY RD	1010	1	6	1.210	
	50	111	0	2		HOLSBERY RD	1010	1	5	0.990	
	50	111	0	2		HOLSBERY RD	1010	2	2	0.990	
	50	112	0	32		DEPOT RD	1060			2.240	
	50	113	0	28		DEPOT RD	1010	1	4	5.550	
	50	113	0	28		DEPOT RD	1010	2	1	5.550	
	50	114	0	11		HOLSBERY RD	1010	1	4	3.520	
	50	115	0	7		HOLSBERY RD	1010	1	3	2.280	
	50	116	0	5		HOLSBERY RD	1010	1	3	0.800	
	50	117	0	24		DEPOT RD	1300			3.110	
	50	119	0	12		HOLSBERY RD	1060	1	0	1.720	
	50	120	0	16		HOLSBERY RD	1010	1	3	1.380	
	50	121	0	32		BRIDGE RD	1010	1	3	1.410	
	50	122	0	21		CASTLE RD	1090	1	2	1.100	
	50	122	0	21		CASTLE RD	1090	2	1	1.100	
	50	123	0	26		BRIDGE RD	9300			3.580	
	50	124	0	8		FIRST PARISH LN	1010	1	3	1.000	
	50	126	0	44		TRURO CENTER RD	1010	1	3	1.930	
	50	128	0	19		CASTLE RD	1090	1	5	1.360	
	50	128	0	19		CASTLE RD	1090	2	2	1.360	
	50	129	0	15		CASTLE RD	1300			1.150	
	50	130	0	2		GRAYS LN	1010	1	3	0.640	
	50	131	0	4		GRAYS LN	1010	1	2	3.230	
	50	132	0	6		GRAYS LN	1010	1	2	0.960	
	50	133	0	36		TRURO CENTER RD	1010	1	4	1.470	
	50	134	0	34		TRURO CENTER RD	1010	1	5	3.850	
	50	135	0	23		TRURO CENTER RD	1090	1	3	10.730	
	50	135	0	23		TRURO CENTER RD	1090	2	1	10.730	
	50	136	0	11		CASTLE RD	1010	1	2	1.690	
	50	137	0	7		CASTLE RD	1040	1	3	1.280	
	50	138	0	28		TRURO CENTER RD	1090	1	5	0.920	
	50	138	0	28		TRURO CENTER RD	1090	2	2	0.920	
	50	139	0	17		TRURO CENTER RD	0310	1	0	0.510	
	50	140	0	1		CARRS LN	1010	1	3	0.780	
	50	141	0	18		CASTLE RD	1010	1	4	2.340	
	50	142	0	16		CASTLE RD	1010	1	3	1.450	
	50	144	0	10		CASTLE RD	1010	1	1	0.600	
	50	144	0	10		CASTLE RD	1010	2	1	0.600	
	50	144	0	10		CASTLE RD	1010	3	1	0.600	
	50	145	0	8		CASTLE RD	1010	1	3	2.400	
	50	146	0	6		CASTLE RD	1010	1	3	0.830	

	50	147	0	3		CASTLE RD	1010	1	3	0.740
	50	148	0	26		TRURO CENTER RD	1010	1	3	0.120
	50	149	0	13		TRURO CENTER RD	9310	1	0	0.320
	50	150	0	15		TRURO CENTER RD	1090	1	4	0.930
	50	150	0	15		TRURO CENTER RD	1090	2	2	0.930
	50	151	0	12		CASTLE RD	9500			7.510
	50	152	0	4		CASTLE RD	9300			0.300
	50	153	0	20		TRURO CENTER RD	9300			1.370
	50	154	0	10		SLADE HILL RD	1300			0.770
	50	155	0	14		TRURO CENTER RD	3250	1	0	2.500
	50	155	0	14		TRURO CENTER RD	3250	2	0	2.500
	50	155	0	14		TRURO CENTER RD	3250	3	0	2.500
	50	156	0	8		MARSHALL LN	1010	1	3	0.520
	50	157	0	9		MARSHALL LN	1090	1	2	0.670
	50	157	0	9		MARSHALL LN	1090	2	1	0.670
	50	158	0	7		MARSHALL LN	1010	1	3	1.170
	50	159	0	3	A	MARSHALL LN	1300			0.980
	50	160	0	6		MARSHALL LN	1010	1	2	0.460
	50	161	0	5		MARSHALL LN	1010	1	3	0.380
	50	162	0	4		MARSHALL LN	1010	1	2	0.350
	50	163	0	3		MARSHALL LN	1010	1	3	0.230
	50	164	0	14		OLD COUNTY RD	1300			3.090
	50	165	0	17		DEPOT RD	1300			2.580
	50	166	0	15		DEPOT RD	1010	1	2	1.220
	50	167	0	13		DEPOT RD	1010	1	3	1.430
	50	168	0	11		DEPOT RD	1010	1	2	3.280
	50	169	0	2		NOAHS WAY	1010	1	4	1.027
	50	170	0	5		DEPOT RD	1010	1	4	2.040
	50	171	0	2		MARSHALL LN	1010	1	3	0.270
	50	172	0	21		DEPOT RD	1300			0.910
	50	173	0	6		HOLSBERY RD	1010	1	3	6.740
	50	173	0	6		HOLSBERY RD	1010	2	1	6.740
	50	174	0	6		YACHT CLUB RD	1320			0.070
	50	175	0	24	B	MILL POND RD	1320			0.720
	50	181	0	22		DEPOT RD	1010	1	3	2.050
	50	183	0	5		HATCH RD	1090	1	3	2.090
	50	183	0	5		HATCH RD	1090	2	1	2.090
	50	184	0	2		HATCH RD	1090	1	2	2.330
	50	184	0	2		HATCH RD	1090	2	1	2.330
	50	185	0	6		DEPOT RD	1320			0.320
	50	191	0	7		HATCH RD	1090	1	6	1.890
	50	191	0	7		HATCH RD	1090	2	2	1.890
	50	192	0	8		OLD BRIDGE RD	1010	1	4	2.850
	50	193	0	12		OLD BRIDGE RD	1010	1	4	3.060
	50	195	0	15		HATCH RD	1010	1	4	1.070
	50	196	0	9		OLD BRIDGE RD	1090	1	4	1.100
	50	196	0	9		OLD BRIDGE RD	1090	2	3	1.100
	50	197	0	18		HOLSBERY RD	9500			2.430
	50	198	0	11		OLD BRIDGE RD	1010	1	3	1.420
	50	198	0	11		OLD BRIDGE RD	1010	2	2	1.420
	50	199	0	13		OLD BRIDGE RD	1010	1	4	2.480
	50	200	0	17		OLD BRIDGE RD	9500			0.350

	50	201	0	19		OLD BRIDGE RD	1300			0.860	
	50	202	0	21		OLD BRIDGE RD	1060			0.950	
	50	203	0	25		OLD BRIDGE RD	1300			0.830	
	50	204	0	19		HATCH RD	1010	1	3	1.580	
	50	205	0	0		PAMET RIVER	9500			0.390	
	50	206	0	0		TOMS HILL RD	9500			1.140	
	50	207	0	0		PAMET RIVER -NO BANK	9500			39.560	
	50	208	0	0		PAMET RIVER -NO BANK	9500			8.460	
	50	209	0	0		PAMET RIVER -NO BANK	1320			10.390	
	50	210	0	0		PAMET RIVER -SO BANK	9300			21.190	
	50	211	0	1	B	MEETINGHOUSE RD	9300			9.270	
	50	212	0	0		PAMET RIVER -SO BANK	1320			3.150	
	50	213	0	0		PAMET RIVER -SO BANK	9500			3.670	
	50	214	0	0		PAMET RIVER -SO BANK	1320			3.350	
	50	215	0	0		PAMET RIVER -SO BANK	1320			3.600	
	50	216	0	0		PAMET RIVER -SO BANK	1320			0.640	
	50	217	0	0		PAMET RIVER -SO BANK	1320			2.300	
	50	218	0	0		PAMET RIVER -SO BANK	9300			2.840	
	50	219	0	0		PAMET RIVER -SO BANK	1320			7.140	
	50	220	0	0		PAMET RIVER -SO BANK	1320			0.310	
	50	221	0	22		MILL POND RD	1320			5.890	
	50	222	0	0		MILL POND RD	9500			2.030	
	50	223	0	30	A	MILL POND RD	1320			1.520	
	50	224	0	0		MILL POND RD	9500			1.520	
	50	226	0	4		CASTLE HILL LN	1010	1	2	0.230	
	50	227	0	5		GRIDLEY BROOK LN	1010	1	4	1.390	
	50	228	0	20	C	MILL POND RD	1320			10.880	
	50	230	0	27		BRIDGE RD	1010	1	4	0.780	
	50	231	0	29		BRIDGE RD	1300			0.780	
	50	232	0	23		OLD BRIDGE RD	1300			1.150	
	50	233	0	3		CARRS LN	1010	1	3	0.777	
	50	234	0	4		OLD PAMET RD	1010	1	3	0.780	
	50	235	0	9		CASTLE RD	1300			0.800	
	50	236	0	4		OLD BRIDGE RD	1060			0.500	
	50	237	0	11		OLD COUNTY RD	1010	1	4	3.100	
	50	237	0	11		OLD COUNTY RD	1010	2	1	3.100	
	50	238	0	13		OLD COUNTY RD	1300			1.000	
	50	239	0	25		CASTLE RD	1010	1	3	0.830	
	50	240	0	14		OLD BRIDGE RD	1300			3.000	
	50	241	0	0		DEPOT RD	9500			1.150	
	50	242	0	7		OLD COUNTY RD	9500			1.950	
	50	243	0	4		HATCH RD	1010	1	3	0.780	
	50	245	0	57		DEPOT RD	1300			0.780	
	50	246	0	55		DEPOT RD	1010	1	3	0.780	
	50	248	0	10		SECOR LN	1010	1	3	1.870	
	50	249	0	12		SECOR LN	1010	1	1	2.340	
	50	252	0	5		CASTLE HILL LN	1300			1.000	
	50	253	0	8	A	HIGH PAMET RD	1320			3.120	
	50	254	0	34		MILL POND RD	1320			6.920	
	50	256	0	1		MARIAN LN	1010	1	4	1.710	
	50	257	0	46		CASTLE RD	1010	1	3	0.895	
	50	258	0	2		GRIDLEY BROOK LN	1060			0.800	

	50	259	0	8	B	HIGH PAMET RD	9500			4.750	
	50	260	0	0		CASTLE RD	9500			1.190	
	50	261	0	17		OLD COUNTY RD	1320			0.040	
	50	262	0	2		HARRIER WAY	1010	1	4	1.280	
	50	263	0	4		HARRIER WAY	1010	1	5	1.740	
	50	265	0	49		DEPOT RD	1010	1	5	2.180	
	50	266	0	4		RIVER VIEW RD	1010	1	2	2.620	
	50	267	0	6		RIVER VIEW RD	1300			2.090	
	50	268	0	5		RIVER VIEW RD	1010	1	4	2.210	
	50	269	0	3		RIVER VIEW RD	1010	1	2	2.420	
	50	270	0	1		RIVER VIEW RD	1300			1.390	
	50	271	0	4		BAKER LN	1300			1.830	
	50	272	0	6		BAKER LN	1010	1	3	4.640	
	50	273	0	1		FRANCIS FARM RD	9500			5.070	
	50	274	0	14		DEPOT RD	1010	1	3	3.550	
	50	274	0	14		DEPOT RD	1010	2	1	3.550	
	50	276	0	14		FRANCIS FARM RD	1010	1	3	1.180	
	50	276	0	14		FRANCIS FARM RD	1010	2	2	1.180	
	50	277	0	16		FRANCIS FARM RD	1010	1	4	2.620	
	50	278	0	15		FRANCIS FARM RD	1010	1	4	1.730	
	50	279	0	13		FRANCIS FARM RD	1010	1	3	3.030	
	50	280	0	0		DEPOT RD	1320			0.070	
	50	281	0	2		FRANCIS FARM RD	9500			5.200	
	50	282	0	11	A	HATCH RD	9500			4.660	
	50	283	0	11		HATCH RD	1300			1.290	
	50	284	0	6		HATCH RD	1300			1.020	
	50	285	0	8	C	HIGH PAMET RD	9500			0.546	
	50	286	0	60		DEPOT RD	1010	1	2	0.990	
	50	286	0	60		DEPOT RD	1010	2	2	0.990	
	50	287	0	31		MILL POND RD	1010	1	3	1.180	
	50	288	0	51		DEPOT RD	1040	1	4	1.240	
	50	289	0	3		DEPOT RD	3250	1	2	2.040	
	50	290	0	23		OLD COUNTY RD	1010	1	4	2.000	
	50	291	0	3	A	CARRS LN	9500			1.680	
	50	292	0	1		MARIA ROSE PATH	1300			0.926	
	50	293	0	29		CASTLE RD	1300			0.780	
	50	294	0	1		NOAHS WAY	1010	1	3	1.032	
	51	1	1	178		RT 6	1020	1	1	0.000	
	51	1	2	178		RT 6	1020	1	1	0.000	
	51	2	0	12		NO PAMET RD	1300			0.820	
	51	3	0	14		NO PAMET RD	1300			0.780	
	51	4	0	10		AVERY HILL WAY	1010	1	4	1.610	
	51	6	0	4		AVERY WAY	1010	1	3	2.450	
	51	8	0	1		AVERY WAY	1010	1	2	2.940	
	51	9	0	23		NO PAMET RD	1010	1	3	1.800	
	51	10	1	11		TRURO CENTER RD	1020	1	1	0.000	
	51	10	2	11		TRURO CENTER RD	3430	1	0	0.000	
	51	11	0	172		RT 6	3250	1	0	1.380	
	51	12	0	7		TRURO CENTER RD	9300			1.590	
	51	13	0	15		NO PAMET RD	1010	1	4	15.650	
	51	14	0	10		SO PAMET RD	1300			2.060	
	51	15	0	0		SO PAMET RD	9500			0.950	

	51	16	0	37		NO PAMET RD	1010	1	3	4.730	
	51	16	0	37		NO PAMET RD	1010	2	1	4.730	
	51	17	0	12		TRURO CENTER RD	3400	1	0	0.110	
	51	18	0	1		DEPOT RD	9430	1	0	0.580	
	51	19	0	160		RT 6	9500			1.480	
	51	20	0	8		TRURO CENTER RD	0310	1	0	1.500	
	51	21	0	5		OSPREY WAY	1010	1	3	0.760	
	51	22	0	3		OSPREY WAY	1010	1	3	0.830	
	51	23	0	9		SO PAMET RD	1300			2.090	
	51	24	0	17		SO PAMET RD	1010	1	3	3.090	
	51	26	0	2		TRURO CENTER RD	0310	1	3	1.620	
	51	26	0	2		TRURO CENTER RD	0310	2	0	1.620	
	51	27	0	1		OSPREY WAY	1010	1	3	0.810	
	51	28	0	155		RT 6	1010	1	3	7.560	
	51	29	0	153		RT 6	1010	1	4	0.780	
	51	30	0	151		RT 6	1040	1	4	0.350	
	51	31	0	8		HATCH RD	1090	1	6	3.690	
	51	31	0	8		HATCH RD	1090	2	2	3.690	
	51	32	0	146		RT 6	1010	1	4	1.380	
	51	33	0	143		RT 6	1300			1.330	
	51	34	0	3		EDGEWOOD WAY	1090	1	5	2.860	
	51	34	0	3		EDGEWOOD WAY	1090	2	3	2.860	
	51	34	0	3		EDGEWOOD WAY	1090	3	1	2.860	
	51	34	0	3		EDGEWOOD WAY	1090	4	1	2.860	
	51	36	0	21		SO PAMET RD	1010	1	3	0.910	
	51	37	0	23		SO PAMET RD	1010	1	5	0.560	
	51	38	0	27		SO PAMET RD	1040	1	4	1.800	
	51	39	0	32		SO PAMET RD	1300			0.450	
	51	40	0	40		SO PAMET RD	1010	1	3	2.700	
	51	41	0	42		SO PAMET RD	1010	1	1	0.600	
	51	42	0	0		SO PAMET RD	9000			0.320	
	51	43	0	33		SO PAMET RD	1010	1	4	1.650	
	51	44	0	31		SO PAMET RD	1010	1	4	2.390	
	51	45	0	35		SO PAMET RD	1010	1	3	4.044	
	51	46	0	46		SO PAMET RD	1010	1	5	1.400	
	51	47	0	48		SO PAMET RD	1090	1	3	2.940	
	51	47	0	48		SO PAMET RD	1090	2	1	2.940	
	51	48	0	45		SO PAMET RD	1060	1	0	0.774	
	51	49	0	51		SO PAMET RD	1010	1	2	3.440	
	51	50	0	60		SO PAMET RD	1010	1	3	3.490	
	51	51	0	59		SO PAMET RD	1010	1	3	3.120	
	51	53	0	53		SO PAMET RD	1010	1	3	1.740	
	51	54	0	149		COLLINS RD	1010	1	4	0.650	
	51	55	0	68		SO PAMET RD	1010	1	4	3.310	
	51	56	0	63		SO PAMET RD	1060	1	2	2.930	
	51	57	0	82		SO PAMET RD	1010	1	2	2.900	
	51	58	0	92		SO PAMET RD	1010	1	3	0.560	
	51	59	0	81		SO PAMET RD	1010	1	5	3.200	
	51	60	0	83		SO PAMET RD	1010	1	5	4.710	
	51	61	0	133		COLLINS RD	1010	1	3	3.670	
	51	62	0	0		COLLINS RD	9000			2.750	
	51	63	0	0		COLLINS RD	9000			5.320	

	51	64	0	0		COLLINS RD	9000			0.700	
	51	65	0	41		SO PAMET RD	1010	1	5	6.430	
	51	66	0	181		RT 6	1300			1.780	
	51	67	0	10		NO PAMET RD	1010	1	4	1.830	
	51	68	0	6		SO PAMET WAY	1090	1	3	1.980	
	51	68	0	6		SO PAMET WAY	1090	2	1	1.980	
	51	70	0	176		RT 6	1010	1	4	1.120	
	51	71	0	8		OLD PAMET RD	1300			0.780	
	51	73	0	183		RT 6	1010	1	4	0.990	
	51	74	0	5		SO PAMET WAY	1010	1	2	1.840	
	51	76	0	5		KEEZER CT	9500			1.470	
	51	77	0	14		HATCH RD	1010	1	5	0.780	
	51	78	0	21		HATCH RD	1010	1	5	2.010	
	51	79	0	3		KEEZER CT	1300			1.400	
	51	80	0	18		HATCH RD	1300			1.990	
	51	81	0	18	A	HATCH RD	9500			0.780	
	51	82	0	154		RT 6	1060			1.230	
	51	83	0	152		RT 6	1040	1	3	0.920	
	51	84	0	148		RT 6	1040	1	5	1.110	
	51	85	0	10		HATCH RD	1300			0.920	
	51	86	0	12		HATCH RD	1300			0.920	
	51	87	0	142		RT 6	9300			4.260	
	51	88	0	6		EDGEWOOD WAY	1300			3.990	
	51	89	0	8		EDGEWOOD WAY	1300			2.160	
	51	90	0	10		EDGEWOOD WAY	1300			1.610	
	51	91	0	139		RT 6	9300			11.380	
	51	92	0	146	A	RT 6	1300			2.670	
	51	94	0	84		SO PAMET RD	9000	1	5	24.210	
	51	95	0	19		SO PAMET RD	1300			0.780	
	51	96	0	4		SO PAMET WAY	1010	1	3	0.780	
	52	1	0	6		AUNT SALS LN	1010	1	3	1.960	
	52	2	0	5		AUNT SALS LN	1010	1	3	0.520	
	52	3	0	4		HEAD-O-PAMET WAY	1010	1	4	0.500	
	52	4	0	120		SO PAMET RD	1010	1	3	0.490	
	52	5	0	1		LONG DUNE LN	1010	1	2	0.730	
	52	6	0	110		SO PAMET RD	1010	1	4	0.850	
	52	7	0	112		SO PAMET RD	1010	1	3	0.750	
	52	8	0	102		SO PAMET RD	1010	1	2	0.820	
	52	9	0	100		SO PAMET RD	1010	1	3	0.900	
	52	10	0	104		SO PAMET RD	1010	1	5	3.300	
	52	11	0	103		SO PAMET RD	1010	1	6	1.970	
	52	12	0	107		SO PAMET RD	1090	1	4	4.420	
	52	12	0	107		SO PAMET RD	1090	2	1	4.420	
	52	13	0	111		SO PAMET RD	1010	1	4	3.000	
	52	15	0	0		MUNSON RD	9000			2.140	
	52	16	0	0		MUNSON RD	9000			1.310	
	52	17	0	6		HEAD-O-PAMET WAY	9000			0.400	
	53	1	0	5		GREAT HILLS LN	1010	1	5	0.680	
	53	2	0	3		GREAT HILLS LN	1010	1	5	1.550	
	53	3	0	1		GREAT HILLS LN	1010	1	5	0.520	
	53	4	0	23		GREAT HILLS RD	1010	1	3	0.880	
	53	6	0	25		GREAT HILLS RD	1010	1	4	1.700	

	53	8	0	1		DESCHAMPS WAY	1010	1	4	1.010	
	53	9	0	5		DESCHAMPS WAY	1320			0.430	
	53	10	0	3		DESCHAMPS WAY	1010	1	3	0.430	
	53	11	0	8		GREAT HILLS RD	1010	1	5	0.380	
	53	12	0	29		GREAT HILLS RD	1010	1	5	0.590	
	53	14	0	8		DESCHAMPS WAY	1010	1	3	1.240	
	53	16	0	4		DESCHAMPS WAY	1300			0.490	
	53	17	0	6		GREAT HILLS RD	1010	1	4	0.460	
	53	18	0	2		PETERSSON WAY	1010	1	1	0.800	
	53	19	0	4		GREAT HILLS RD	1300			2.750	
	53	20	0	5		GREAT HILLS RD	1010	1	5	0.460	
	53	23	0	51		FISHER RD	1010	1	2	0.780	
	53	24	0	49		FISHER RD	1010	1	2	0.520	
	53	25	0	47		FISHER RD	1010	1	2	0.540	
	53	26	0	45		FISHER RD	1010	1	3	0.550	
	53	27	0	43		FISHER RD	1040	1	6	1.200	
	53	28	0	41		FISHER RD	1010	1	2	0.520	
	53	29	0	35		FISHER RD	1300			5.280	
	53	30	0	5		FISHER PATH	1010	1	3	0.800	
	53	30	0	5		FISHER PATH	1010	2	2	0.800	
	53	31	0	44		FISHER RD	1010	1	1	0.170	
	53	33	0	3		FISHER PATH	1010	1	6	0.210	
	53	34	0	40		FISHER RD	1010	1	1	0.120	
	53	35	0	38		FISHER RD	1010	1	2	0.100	
	53	36	0	1		FISHER PATH	1010	1	4	0.790	
	53	37	0	34		FISHER RD	1010	1	2	0.160	
	53	38	0	6		SALT MARSH LN	1320			0.460	
	53	39	0	2		FISHER PATH	1010	1	4	2.040	
	53	40	0	10		WELL SWEEP LN	1010	1	4	1.510	
	53	41	0	8		WELL SWEEP LN	1010	1	2	0.320	
	53	44	0	4		SALT MARSH LN	1320			0.460	
	53	46	0	28		FISHER RD	1010	1	4	2.090	
	53	47	0	3		BENSON RD	1010	1	2	2.384	
	53	49	0	27		FISHER RD	1010	1	3	0.780	
	53	50	0	9	B	BENSON RD	1300			3.490	
	53	51	0	7		BENSON RD	1010	1	3	1.160	
	53	52	0	9		BENSON RD	1010	1	4	0.780	
	53	53	0	4		BENSON RD	1300			0.520	
	53	54	0	2		DAISY LN	1010	1	2	0.790	
	53	55	0	20		FISHER RD	1090	1	3	0.680	
	53	55	0	20		FISHER RD	1090	2	2	0.680	
	53	56	0	9	A	BENSON RD	9500			6.200	
	53	57	0	11		BENSON RD	1010	1	4	1.350	
	53	58	0	1		BENSON LN	1010	1	2	2.820	
	53	59	0	3		BENSON LN	1010	1	3	0.730	
	53	60	0	10		BENSON RD	1010	1	3	0.930	
	53	61	0	3		DAISY LN	1010	1	4	0.200	
	53	62	0	7		DAISY LN	1010	1	3	0.710	
	53	63	0	5		DAISY LN	1010	1	1	0.460	
	53	66	0	4		TOWHEE LN	1320			0.370	
	53	67	0	23		STEPHENS WAY	1010	1	5	3.900	
	53	69	0	6		TOWHEE LN	1010	1	3	2.050	

	53	72	0	9		TOWHEE LN	1010	1	4	1.068
	53	73	0	27		STEPHENS WAY	1010	1	3	9.487
	53	73	0	27		STEPHENS WAY	1010	2	3	9.487
	53	74	0	21		STEPHENS WAY	1010	1	4	1.790
	53	75	0	19		STEPHENS WAY	1090	1	1	1.660
	53	75	0	19		STEPHENS WAY	1090	2	1	1.660
	53	75	0	19		STEPHENS WAY	1090	3	2	1.660
	53	76	0	31		STEPHENS WAY	1010	1	2	0.216
	53	77	0	35		STEPHENS WAY	1010	1	4	1.740
	53	78	0	30		STEPHENS WAY	1320			2.644
	53	79	0	30		FISHER RD	1010	1	3	1.090
	53	80	0	0		WELL SWEEP LN	1320			0.030
	53	81	0	48		FISHER RD	9500			0.900
	53	82	0	25		FISHER RD	1010	1	3	0.780
	53	83	0	6		BENSON RD	1300			0.840
	53	84	0	3		BUTTON HILL RD	1010	1	4	0.960
	53	85	0	6		BUTTON HILL RD	1010	1	6	1.860
	53	86	0	4		BUTTON HILL RD	1090	1	2	1.380
	53	86	0	4		BUTTON HILL RD	1090	2	2	1.380
	53	87	0	12		THORNLEY MEADOW RD	1010	1	3	2.558
	53	88	0	9		THORNLEY MEADOW RD	1320			0.200
	53	89	0	0		BENSON RD	1320			0.140
	53	93	0	4		PETERSSON WAY	1010	1	2	0.780
	53	94	0	3		PETERSSON WAY	1300			0.780
	53	95	0	10		GREAT HILLS RD	9500			0.800
	53	96	0	10	A	GREAT HILLS RD	1320			0.720
	53	97	0	23	A	STEPHENS WAY	1320			3.940
	53	98	0	2		BUTTON HILL RD	1320			1.120
	53	99	0	2		WELL SWEEP LN	1010	1	3	0.780
	53	100	0	1		SALT MARSH LN	1010	1	2	1.510
	53	101	0	8		SALT MARSH LN	9320			1.790
	53	103	0	29		STEPHENS WAY	1300			0.228
	53	104	0	33		STEPHENS WAY	1320			4.927
	54	1	0	20		MILL POND RD	1010	1	5	4.760
	54	1	0	20		MILL POND RD	1010	2	1	4.760
	54	2	0	20	D	MILL POND RD	1320			9.870
	54	3	0	14		ABBY LN	1320			0.710
	54	4	0	0		OLD COUNTY RD	9500			2.770
	54	5	0	0		OLD COUNTY RD	9320			0.710
	54	6	0	4		PHATS VALLEY RD	1300			3.090
	54	7	0	14		SALT MARSH LN	1010	1	2	2.390
	54	8	0	18		PHATS VALLEY RD	1010	1	4	1.000
	54	10	0	12		PHATS VALLEY RD	1300			1.040
	54	11	0	47		OLD COUNTY RD	1010	1	3	3.030
	54	12	0	5		FISHER HILL WAY	1300			4.300
	54	13	0	21		FISHER RD	1010	1	4	2.930
	54	15	0	19		FISHER RD	1010	1	4	2.330
	54	16	0	6		FISHER HILL WAY	1300			1.500
	54	17	0	53		OLD COUNTY RD	1010	1	4	0.780
	54	18	0	6	A	FISHER HILL WAY	9500			0.130
	54	19	0	18		FISHER RD	1010	1	4	0.720
	54	20	0	17		FISHER RD	1010	1	4	0.250

	54	21	0	11		FISHER RD	1320			1.423	
	54	22	0	1		FISHER RD	1010	1	2	3.030	
	54	23	0	15		FISHER RD	1010	1	3	0.250	
	54	24	0	16		FISHER RD	1010	1	2	0.786	
	54	24	0	16		FISHER RD	1010	2	1	0.786	
	54	25	0	13		FISHER RD	1010	1	2	0.460	
	54	26	0	7		FISHER RD	1010	1	1	1.090	
	54	27	0	61		OLD COUNTY RD	1010	1	3	1.190	
	54	28	0	8		FISHER RD	1090	1	3	1.080	
	54	28	0	8		FISHER RD	1090	2	2	1.080	
	54	30	0	1		STEPHENS WAY	1010	1	3	0.460	
	54	32	0	63		OLD COUNTY RD	1010	1	4	1.420	
	54	33	0	3		ROSE HILL LN	1010	1	3	2.610	
	54	34	0	5	A	STEPHENS WAY	1320			0.550	
	54	35	0	3		STEPHENS WAY	1010	1	2	0.610	
	54	36	0	65		OLD COUNTY RD	1010	1	5	1.420	
	54	37	0	5		STEPHENS WAY	1300			0.490	
	54	38	0	7	A	STEPHENS WAY	1320			0.250	
	54	39	0	7		STEPHENS WAY	1010	1	3	0.410	
	54	40	0	8		STEPHENS WAY	1010	1	4	0.630	
	54	41	0	67		OLD COUNTY RD	1010	1	4	1.000	
	54	42	0	9		STEPHENS WAY	1010	1	2	0.810	
	54	43	0	69		OLD COUNTY RD	1090	1	3	0.830	
	54	43	0	69		OLD COUNTY RD	1090	2	2	0.830	
	54	44	0	17		STEPHENS WAY	1010	1	1	0.820	
	54	45	0	15		STEPHENS WAY	1010	1	2	0.820	
	54	46	0	11		STEPHENS WAY	1010	1	4	1.240	
	54	47	0	10		STEPHENS WAY	1010	1	5	2.820	
	54	48	0	0		OLD COUNTY RD	9300			1.330	
	54	49	0	3		RICH RD	1320			0.410	
	54	50	0	11		COOPER RD	1010	1	4	6.880	
	54	51	0	6		RICH RD	1010	1	4	9.240	
	54	52	0	4		RICH RD	1010	1	7	1.607	
	54	54	0	16		MILL POND RD	1010	1	4	1.120	
	54	55	0	13		ABBY LN	1010	1	2	0.540	
	54	56	0	14		MILL POND RD	1010	1	2	1.150	
	54	58	0	11		ABBY LN	1090	1	2	1.070	
	54	58	0	11		ABBY LN	1090	2	1	1.070	
	54	58	0	11		ABBY LN	1090	3	1	1.070	
	54	59	0	10		MILL POND RD	1010	1	3	0.967	
	54	60	0	8		MILL POND RD	1010	1	5	1.380	
	54	62	0	5		PERRYS HILL WAY	1010	1	4	5.085	
	54	63	0	10		PERRYS HILL WAY	1010	1	2	0.320	
	54	65	0	7		MILL POND RD	1010	1	4	1.050	
	54	66	0	6		PERRYS HILL WAY	1010	1	5	2.000	
	54	67	0	8		PERRYS HILL WAY	1010	1	4	2.940	
	54	68	0	1		MILL POND RD	1300			1.190	
	54	70	0	3		ATWOOD LN	1010	1	3	0.550	
	54	71	0	24		OLD COUNTY RD	1040	1	4	0.970	
	54	73	0	26		OLD COUNTY RD	1010	1	4	0.970	
	54	74	0	2		PERRYS HILL WAY	1010	1	3	1.040	
	54	75	0	5		ATWOOD LN	1010	1	3	0.720	

	54	76	0	8		ATWOOD LN	1010	1	2	0.580
	54	77	0	4		STICK BRIDGE RD	1010	1	4	3.730
	54	78	0	28		OLD COUNTY RD	1010	1	6	5.300
	54	79	0	28	A	OLD COUNTY RD	1320			0.355
	54	80	0	21		HOLSBERY RD	1010	1	3	3.670
	54	81	0	3		LAUREL LN	1090	1	2	1.470
	54	81	0	3		LAUREL LN	1090	2	1	1.470
	54	81	0	3		LAUREL LN	1090	3	1	1.470
	54	82	0	20		HOLSBERY RD	1010	1	7	2.290
	54	83	0	77		OLD COUNTY RD	1300			0.776
	54	85	0	79		OLD COUNTY RD	1300			0.820
	54	87	0	81		OLD COUNTY RD	1300			0.870
	54	88	0	14		FISHER RD	1010	1	3	0.710
	54	89	0	8		STICK BRIDGE RD	1090	1	3	3.660
	54	89	0	8		STICK BRIDGE RD	1090	2	1	3.660
	54	90	0	25		HOLSBERY RD	1090	1	6	6.660
	54	90	0	25		HOLSBERY RD	1090	2	2	6.660
	54	91	0	54		OLD COUNTY RD	1010	1	5	8.307
	54	92	0	33		HOLSBERY RD	1010	1	4	8.800
	54	93	0	41		HOLSBERY RD	1010	1	2	3.000
	54	94	0	0		CEMETERY RD	9000			26.070
	54	95	0	0		PRINCE VALLEY RD-OFF	9000			3.490
	54	96	0	0		PRINCE VALLEY RD-OFF	9000			3.420
	54	97	0	0		PRINCE VALLEY RD-OFF	9000			2.520
	54	98	0	0		PHATS VALLEY RD	9500			4.470
	54	99	0	3		SKYLAR LN	1300			1.850
	54	100	0	2		SKYLAR LN	1010	1	3	0.930
	54	101	0	15		HOLSBERY RD	1300			0.780
	54	103	0	0		ABBY LN	9500			0.110
	54	105	0	22		STEPHENS WAY	9500			6.000
	54	106	0	55		OLD COUNTY RD	1010	1	5	1.500
	54	107	0	5		ROSE HILL LN	1300			1.320
	54	108	0	7		ROSE HILL LN	1300			1.210
	54	109	0	1		STICK BRIDGE RD	9500			0.900
	54	110	0	2		ROSE HILL LN	1320			0.070
	54	112	0	8	A	MILL POND RD	1320			0.070
	54	113	0	4		ABBY LN	1320			2.780
	54	114	0	10	A	ABBY LN	9300			0.100
	54	115	0	12		SALT MARSH LN	1300			1.640
	54	116	0	10		SALT MARSH LN	9320			1.760
	54	117	0	42		OLD COUNTY RD	9000			3.220
	54	118	0	56		OLD COUNTY RD	9500			3.000
	54	119	0	9		MILL POND RD	1300			1.149
	55	1	0	0		HATCH RD - OFF END	9000			1.420
	55	2	0	5		TOWN DUMP RD	9310	1	0	10.200
	55	2	0	5		TOWN DUMP RD	9310	2	0	10.200
	55	2	A	5		TOWN DUMP RD	4310			0.000
	55	3	0	5	A	TOWN DUMP RD	9300			3.210
	55	4	0	0		RT 6 - OFF	9000			7.530
	55	5	0	0		RT 6 - OFF	9000			2.940
	55	6	0	0		KINGS RD	9000			3.500
	55	7	0	0		KINGS RD	9000			0.500

	55	8	0	0		KINGS RD	9000			9.820	
	55	9	0	0		KINGS RD	9000			1.700	
	55	10	0	0		RT 6	9000			1.380	
	55	11	0	0		RT 6	9000			1.800	
	55	12	0	100		RT 6	1060			1.700	
	55	13	0	0		RT 6	9000			3.670	
	55	14	0	0		RT 6 - OFF	9000			1.930	
	55	15	0	0		RT 6 - OFF	9000			1.610	
	55	16	0	0		RT 6	9000			2.110	
	55	17	0	5		PRINCE VALLEY RD	1010	1	3	1.380	
	55	18	0	7		PRINCE VALLEY RD	1010	1	2	0.460	
	55	19	0	0		PRINCE VALLEY RD	9000			65.640	
	55	20	0	20		PRINCE VALLEY RD	1300			4.290	
	55	21	0	0		RT 6 - OFF	9000			16.060	
	55	22	0	6		PRINCE VALLEY RD	1090	1	1	1.230	
	55	22	0	6		PRINCE VALLEY RD	1090	2	4	1.230	
	55	23	0	4		PRINCE VALLEY RD	1010	1	1	2.120	
	55	24	0	16		GREAT POND RD	1090	1	3	3.030	
	55	24	0	16		GREAT POND RD	1090	2	1	3.030	
	55	25	0	54		COLLINS RD	1010	1	4	1.280	
	55	25	0	54		COLLINS RD	1010	2	1	1.280	
	55	26	0	17		PRINCE VALLEY RD	1090	1	2	1.930	
	55	26	0	17		PRINCE VALLEY RD	1090	2	2	1.930	
	55	26	0	17		PRINCE VALLEY RD	1090	3	1	1.930	
	55	26	0	17		PRINCE VALLEY RD	1090	4	3	1.930	
	55	27	0	104		RT 6	9240	1	0	1.520	
	55	27	0	104		RT 6	9240	2	0	1.520	
	55	27	0	104		RT 6	9240	3	0	1.520	
	55	28	0	15		PRINCE VALLEY RD	1010	1	2	1.000	
	56	1	0	0		COLLINS RD	9000			8.500	
	56	2	0	0		KINGS RD	9000			10.580	
	56	3	0	0		KINGS RD-OFF (OCEAN)	9000			7.000	
	56	4	0	0		KINGS RD-OFF (OCEAN)	9000			4.280	
	56	5	0	0		KINGS RD	9000			5.270	
	56	6	0	0		KINGS RD	9000			5.270	
	56	7	0	0		KINGS RD	9000			21.210	
	56	8	0	0		KINGS RD-OFF (OCEAN)	9000			43.930	
	56	9	0	0		KINGS RD	9000			3.500	
	56	10	0	0		KINGS RD-OFF (OCEAN)	9000			8.240	
	56	11	0	0		KINGS RD	9000			17.200	
	56	12	0	0		KINGS RD	9000			6.920	
	56	13	0	0		KINGS RD-OFF (OCEAN)	9000			3.800	
	56	14	0	0		KINGS RD	9000			1.610	
	56	15	0	0		KINGS RD	9000			5.530	
	56	16	0	0		KINGS RD	9000			5.000	
	56	17	0	0		KINGS RD	9000			10.470	
	56	18	0	0		KINGS RD-OFF (OCEAN)	9000			12.830	
	56	19	0	0		KINGS RD-OFF (OCEAN)	9000			13.620	
	56	20	0	0		KINGS RD-OFF (OCEAN)	9000			11.810	
	56	21	0	0		KINGS RD	9000			5.990	
	56	22	0	0		KINGS RD	9000			2.840	
	56	23	0	50		COLLINS RD	1010	1	2	0.830	

	58	1	0	37		STEPHENS WAY	1300			3.780	
	58	2	0	34		STEPHENS WAY	1320			1.560	
	58	3	0	17		COOPER RD	1010	1	1	0.630	
	58	4	0	21		COOPER RD	1010	1	3	9.700	
	58	5	0	1		COOPER CIR	1010	1	4	0.710	
	58	6	0	22		COOPER RD	1300			0.680	
	58	7	0	3		COOPER CIR	1010	1	4	0.690	
	58	8	0	24		COOPER RD	1010	1	3	0.790	
	58	9	0	5		COOPER CIR	1010	1	4	0.770	
	58	10	0	32		COOPER RD	1010	1	5	0.960	
	58	11	0	30		COOPER RD	1010	1	4	0.540	
	58	12	0	26		COOPER RD	1010	1	4	0.710	
	58	13	0	7		COOPER CIR	1010	1	3	0.850	
	58	14	0	1		CIRCUIT WAY	1010	1	4	1.100	
	58	15	0	38		SANDPIPER RD	1300			0.800	
	58	16	0	4		CIRCUIT WAY	1010	1	5	0.810	
	58	17	0	25		SANDPIPER RD	1010	1	3	1.460	
	58	18	0	7		BRIAR RD	1010	1	4	1.290	
	58	19	0	5		BRIAR RD	1010	1	3	0.780	
	58	20	0	34		SANDPIPER RD	1010	1	4	0.790	
	58	21	0	23		SANDPIPER RD	1300			1.300	
	58	22	0	4		BRIAR RD	1010	1	5	1.230	
	58	23	0	13		SANDPIPER RD	1010	1	5	0.780	
	58	24	0	32		SANDPIPER RD	1010	1	4	0.930	
	58	25	0	30		SANDPIPER RD	1010	1	1	0.980	
	58	27	0	15		SANDPIPER RD	1010	1	4	0.780	
	58	28	0	1		DUNE WAY	1010	1	6	1.160	
	58	29	0	3		DUNE WAY	1010	1	5	1.000	
	58	30	0	5		DUNE WAY	1010	1	4	1.190	
	58	33	0	24		SANDPIPER RD	1300			0.820	
	58	34	0	22		SANDPIPER RD	1300			0.820	
	58	35	0	20		SANDPIPER RD	1300			0.780	
	58	36	0	18		SANDPIPER RD	1010	1	7	1.280	
	58	37	0	21		QUANSET RD	1010	1	3	0.980	
	58	38	0	25		STURDY WAY	1010	1	5	2.720	
	58	39	0	20		QUANSET RD	1010	1	3	1.160	
	58	40	0	18		QUANSET RD	1010	1	4	0.790	
	58	41	0	29		STURDY WAY	1010	1	7	3.280	
	58	42	0	10		SPYGLASS HILL RD	1010	1	4	1.320	
	58	43	0	14		STURDY WAY	1010	1	3	8.760	
	58	44	0	12		STURDY WAY	1010	1	3	0.720	
	58	45	0	10		STURDY WAY	1010	1	5	1.810	
	58	46	0	13		ROLLING HILLS RD	1010	1	3	1.310	
	58	46	0	13		ROLLING HILLS RD	1010	2	2	1.310	
	58	47	0	11		ROLLING HILLS RD	1010	1	3	0.780	
	58	48	0	9		ROLLING HILLS RD	1010	1	4	2.220	
	58	49	0	7		STURDY WAY	1090	1	1	1.150	
	58	49	0	7		STURDY WAY	1090	2	3	1.150	
	58	50	0	15		ROLLING HILLS RD	1010	1	5	0.900	
	58	51	0	14		QUANSET RD	1010	1	4	1.070	
	58	52	0	8		ROLLING HILLS RD	1010	1	4	1.000	
	58	53	0	7		ROLLING HILLS RD	1010	1	4	1.900	

	58	54	0	21		RYDER BEACH RD	1010	1	5	1.220	
	58	55	0	17		ROLLING HILLS RD	1010	1	5	2.380	
	58	56	0	4		ROLLING HILLS RD	1010	1	5	2.370	
	58	57	0	25		RYDER BEACH RD	1040	1	4	1.220	
	58	58	0	2		STURDY WAY	1010	1	3	1.120	
	58	60	0	27		RYDER BEACH RD	1010	1	4	1.420	
	58	61	0	26		RYDER BEACH RD	1320			1.120	
	58	62	0	22		RYDER BEACH RD	1060			1.730	
	58	63	0	27		STURDY WAY	1010	1	2	2.750	
	58	64	0	20		STURDY WAY	1010	1	3	2.010	
	58	65	0	33		COOPER RD	1010	1	5	2.810	
	58	66	0	16		QUANSET RD	1010	1	5	0.860	
	58	67	0	8		SPYGLASS HILL RD	1010	1	4	0.790	
	58	68	0	19		SANDPIPER RD	1010	1	4	1.010	
	58	69	0	17		SANDPIPER RD	1300			1.040	
	58	70	0	4		DUNE WAY	1010	1	3	1.120	
	58	71	0	26		SANDPIPER RD	1300			1.270	
	58	72	0	5		STURDY WAY	1060			1.110	
	59	1	0	13		COOPER RD	1010	1	4	0.680	
	59	4	0	3		COOPER RD	1090	1	2	2.059	
	59	4	0	3		COOPER RD	1090	2	1	2.059	
	59	4	0	3		COOPER RD	1090	3	4	2.059	
	59	5	0	83		OLD COUNTY RD	1010	1	4	0.790	
	59	6	0	1		COOPER RD	1010	1	4	0.790	
	59	7	0	2		COOPER CIR	1010	1	2	1.110	
	59	9	0	14		COOPER RD	1010	1	4	2.180	
	59	10	0	12		COOPER RD	1010	1	5	1.860	
	59	11	0	6		COOPER RD	1010	1	1	1.190	
	59	11	0	6		COOPER RD	1010	2	0	1.190	
	59	12	0	2		COOPER RD	1010	1	3	0.780	
	59	13	0	3		COBB RD	1010	1	4	1.150	
	59	14	0	93		OLD COUNTY RD	1010	1	5	0.780	
	59	16	0	6		COOPER CIR	1010	1	2	1.420	
	59	17	0	8		COOPER CIR	1300			1.800	
	59	18	0	5		COBB RD	1010	1	2	2.010	
	59	19	0	7		COBB RD	1010	1	4	0.770	
	59	20	0	2		COBB RD	1010	1	3	0.940	
	59	21	0	3		BRIAR RD	1010	1	4	0.850	
	59	22	0	11		SANDPIPER RD	1010	1	3	0.870	
	59	23	0	9		SANDPIPER RD	1010	1	4	0.920	
	59	24	0	2		MANOMET WAY	1010	1	4	1.100	
	59	25	0	7		SANDPIPER RD	1010	1	5	0.930	
	59	26	0	1		MANOMET WAY	1010	1	5	0.780	
	59	27	0	0		OLD COUNTY RD	9300			6.100	
	59	29	0	10		SANDPIPER RD	1010	1	3	0.780	
	59	30	0	8		MARC LN	1010	1	4	0.980	
	59	31	0	7		MARC LN	1010	1	4	0.790	
	59	32	0	8		SANDPIPER RD	1010	1	2	0.820	
	59	33	0	5		OLD COUNTY LN	1010	1	4	0.780	
	59	34	0	6		SANDPIPER RD	1010	1	4	0.790	
	59	35	0	3		SANDPIPER RD	1010	1	2	0.780	
	59	35	0	3		SANDPIPER RD	1010	2	1	0.780	

	59	36	0	17		QUANSET RD	1010	1	3	0.920	
	59	37	0	6		MARC LN	1010	1	4	0.960	
	59	38	0	4		MARC LN	1010	1	4	0.880	
	59	39	0	13		QUANSET RD	1010	1	3	0.960	
	59	40	0	3		MARC LN	1300			0.780	
	59	41	0	2		SANDPIPER RD	1010	1	7	1.320	
	59	42	0	1		SANDPIPER RD	1300			0.830	
	59	43	0	12		QUANSET RD	1060			0.930	
	59	44	0	9		QUANSET RD	1300			0.820	
	59	46	0	15		RYDER BEACH RD	1010	1	3	1.320	
	59	47	0	11		RYDER BEACH RD	1010	1	5	2.490	
	59	48	0	9		RYDER BEACH RD	1090	1	4	2.370	
	59	48	0	9		RYDER BEACH RD	1090	2	1	2.370	
	59	49	0	109		OLD COUNTY RD	1010	1	5	1.350	
	59	50	0	20		RYDER BEACH RD	1010	1	4	4.080	
	59	51	0	1		KATHARINE RD	1010	1	4	1.690	
	59	52	0	2		KATHARINE RD	1010	1	3	0.900	
	59	53	0	14		RYDER BEACH RD	1010	1	4	1.100	
	59	55	0	2		RYDER BEACH RD	9500			2.860	
	59	56	0	120		OLD COUNTY RD	1010	1	3	2.660	
	59	57	0	7		KATHARINE RD	1010	1	4	2.230	
	59	58	0	4		KATHARINE RD	1010	1	4	1.070	
	59	59	0	6		KATHARINE RD	1010	1	5	1.680	
	59	60	0	12	A	RYDER BEACH RD	9500			2.610	
	59	61	0	123		OLD COUNTY RD	1010	1	4	1.480	
	59	62	0	14		PRINCE VALLEY WAY	1090	1	3	1.840	
	59	62	0	14		PRINCE VALLEY WAY	1090	2	1	1.840	
	59	63	0	107		PRINCE VALLEY RD	1090	1	1	3.000	
	59	63	0	107		PRINCE VALLEY RD	1090	2	2	3.000	
	59	64	0	6		FREEMAN RD	9300			0.690	
	59	65	0	4		FREEMAN RD	1010	1	1	1.120	
	59	65	0	4		FREEMAN RD	1010	2	0	1.120	
	59	66	0	133		OLD COUNTY RD	9300			0.730	
	59	67	0	135		OLD COUNTY RD	1010	1	3	1.690	
	59	68	0	120		PRINCE VALLEY RD	1010	1	2	0.810	
	59	69	0	118		PRINCE VALLEY RD	1010	1	2	1.040	
	59	70	0	138		OLD COUNTY RD	1010	1	4	2.810	
	59	72	0	12		RYDER BEACH RD	9500			2.510	
	59	73	0	0		OLD COUNTY RD	9000			74.220	
	59	74	0	0		PINE GROVE CEMETERY	9300			2.150	
	59	75	0	0		PRINCE VALLEY RD-OFF	9000			4.590	
	59	76	0	0		PRINCE VALLEY RD-OFF	9000			21.570	
	59	77	0	84		PRINCE VALLEY RD	1010	1	3	3.100	
	59	78	0	101		PRINCE VALLEY RD	1010	1	3	3.530	
	59	78	0	101		PRINCE VALLEY RD	1010	2	2	3.530	
	59	79	0	118		OLD COUNTY RD	1010	1	2	3.490	
	59	80	0	5		PRINCE VALLEY WAY	1090	1	1	3.800	
	59	80	0	5		PRINCE VALLEY WAY	1090	2	2	3.800	
	59	81	0	92		PRINCE VALLEY RD	1300			1.020	
	59	82	0	88		PRINCE VALLEY RD	1010	1	5	3.000	
	59	83	0	100		PRINCE VALLEY RD	1010	1	2	2.080	
	59	84	0	102		PRINCE VALLEY RD	1010	1	3	3.010	

	59	85	0	0		PRINCE VALLEY RD-OFF	9000			20.930	
	59	86	0	104		PRINCE VALLEY RD	1010	1	2	3.810	
	59	86	0	104		PRINCE VALLEY RD	1010	2	1	3.810	
	59	87	0	0		PRINCE VALLEY RD-OFF	9000			2.660	
	59	88	0	110		PRINCE VALLEY RD	1010	1	2	3.810	
	59	91	0	126		OLD COUNTY RD	1300			0.930	
	59	92	0	12		PRINCE VALLEY WAY	1010	1	3	0.780	
	59	93	0	5		MARC LN	1300			0.780	
	59	94	0	9		MARC LN	1010	1	4	0.780	
	59	95	0	17		RYDER BEACH RD	1010	1	3	0.860	
	59	96	0	6		SPYGLASS HILL RD	1010	1	3	0.780	
	59	97	0	1		SPYGLASS HILL RD	1300			0.780	
	59	98	0	3		SPYGLASS HILL RD	1010	1	3	0.780	
	59	99	0	5		SPYGLASS HILL RD	1010	1	4	1.380	
	59	100	0	10		QUANSET RD	1010	1	3	0.890	
	59	101	0	85		OLD COUNTY RD	1010	1	6	0.800	
	59	102	0	91		OLD COUNTY RD	1010	1	5	0.920	
	59	103	0	10		COOPER RD	1010	1	1	0.800	
	59	104	0	14		SANDPIPER RD	1010	1	4	1.570	
	59	105	0	111		OLD COUNTY RD	1010	1	5	4.580	
	59	106	0	7		RYDER BEACH RD	1010	1	4	0.920	
	59	107	0	125		OLD COUNTY RD	1010	1	3	0.820	
	59	108	0	125	A	OLD COUNTY RD	1320			2.630	
	59	109	0	123	B	OLD COUNTY RD	1320			5.680	
	59	110	0	123	A	OLD COUNTY RD	1320			1.840	
	60	1	0	0		PRINCE VALLEY RD-OFF	9300			1.380	
	60	2	0	0		PRINCE VALLEY RD-OFF	9000			7.340	
	60	3	0	0		PRINCE VALLEY RD-OFF	9000			7.530	
	60	4	0	0		OLD COUNTY RD	9000			1.730	
	60	5	0	0		OLD COUNTY RD	9000			1.800	
	60	6	0	0		RT 6 - OFF	9000			4.090	
	60	7	0	0		RT 6 - OFF	9000			5.260	
	60	8	0	0		RT 6 - OFF	9000			8.960	
	60	9	0	0		RT 6 - OFF	9000			0.670	
	60	10	0	0		RT 6 - OFF	9000			4.090	
	60	11	0	0		RT 6 - OFF	9000			5.590	
	60	12	0	0		RT 6 - OFF	9000			8.660	
	60	13	0	0		RT 6 - OFF	9000			9.130	
	60	14	0	0		RT 6 - OFF	9000			4.890	
	60	15	0	0		PAMET PT RD - OFF	9000			4.010	
	60	16	0	0		PAMET PT RD - OFF	9000			10.680	
	60	17	0	11		PAMET PT EXIT	1010	1	3	3.450	
	60	18	0	0		PAMET PT RD - OFF	9000			8.700	
	60	19	0	35		ELSIES RD	1010	1	2	2.330	
	60	20	0	25		ELSIES RD	1090	1	2	2.890	
	60	20	0	25		ELSIES RD	1090	2	2	2.890	
	60	21	0	8		RT 6	1010	1	1	0.660	
	60	22	0	4		VALENTINA WAY	1010	1	2	0.780	
	60	23	0	5		VALENTINA WAY	1010	1	2	0.690	
	60	24	0	6		NILSON RD	1090	1	2	3.440	
	60	24	0	6		NILSON RD	1090	2	2	3.440	
	60	25	0	0		RT 6 - OFF	9000			1.910	

	60	26	0	0	RT 6 - OFF	9000			8.110	
	60	27	0	0	RT 6	9000			0.060	
	60	28	0	39	RT 6	1010	1	2	7.168	
	60	30	0	43	RT 6	1010	1	3	1.442	
	60	31	0	45	RT 6	1010	1	4	2.786	
	60	32	0	49	RT 6	9300			0.840	
	60	33	0	2	NILSON RD	9000	1	3	1.900	
	60	34	0	1	GREAT POND RD	9000			0.560	
	61	1	0	48	COLLINS RD	1010	1	2	0.830	
	61	2	0	110	SLOUGH POND RD	1090	1	1	5.870	
	61	2	0	110	SLOUGH POND RD	1090	2	2	5.870	
	61	2	0	110	SLOUGH POND RD	1090	3	1	5.870	
	61	3	0	109	SLOUGH POND RD	1010	1	2	2.270	
	61	3	0	109	SLOUGH POND RD	1010	2	1	2.270	
	61	4	0	117	SLOUGH POND RD	1010	1	4	3.000	
	61	5	0	116	SLOUGH POND RD	1090	1	1	1.800	
	61	5	0	116	SLOUGH POND RD	1090	2	2	1.800	
	61	6	0	122	SLOUGH POND RD	1010	1	4	1.800	
	61	7	0	121	SLOUGH POND RD	1090	1	3	1.040	
	61	7	0	121	SLOUGH POND RD	1090	2	1	1.040	
	61	7	0	121	SLOUGH POND RD	1090	3	1	1.040	
	61	8	0	127	SLOUGH POND RD	1010	1	2	1.170	
	61	9	0	7	BLACK POND RD	1090	1	3	5.100	
	61	9	0	7	BLACK POND RD	1090	2	3	5.100	
	61	10	0	15	BLACK POND RD	1320			2.850	
	61	11	0	0	BLACK POND RD	9000			0.540	
	61	12	0	33	BLACK POND RD	1010	1	3	0.530	
	61	13	0	37	BLACK POND RD	1010	1	2	0.560	
	61	13	0	37	BLACK POND RD	1010	2	2	0.560	
	61	14	0	35	BLACK POND RD	1010	1	3	3.000	
	61	15	0	58	SLOUGH POND RD	1010	1	4	3.000	
	61	16	0	81	SLOUGH POND RD	1090	1	1	4.210	
	61	16	0	81	SLOUGH POND RD	1090	2	1	4.210	
	61	16	0	81	SLOUGH POND RD	1090	3	1	4.210	
	61	17	0	5	COLLINS RD	1010	1	3	2.070	
	61	18	0	0	ROSE RD	9000			1.380	
	61	19	0	2	VALENTINA WAY	1010	1	2	1.840	
	61	21	0	3	ROSE RD	9000	1	2	7.100	
	62	1	0	108	SLOUGH POND RD	1010	1	3	1.630	
	62	2	0	8	HORSELEECH RD	1010	1	4	6.080	
	62	2	0	8	HORSELEECH RD	1010	2	2	6.080	
	62	3	0	13	HORSELEECH RD	1090	1	1	5.370	
	62	3	0	13	HORSELEECH RD	1090	2	2	5.370	
	62	3	0	13	HORSELEECH RD	1090	3	2	5.370	
	62	4	0	162	SLOUGH POND RD	1010	1	3	2.390	
	62	5	0	157	SLOUGH POND RD	1010	1	4	3.750	
	62	6	0	7	HORSELEECH RD	1010	1	2	3.600	
	62	7	0	22	BLACK POND RD	1320			2.200	
	63	1	0	29	RYDER BEACH RD	1010	1	4	1.000	
	63	2	0	33	RYDER BEACH RD	1010	1	4	0.980	
	63	3	0	31	RYDER BEACH RD	1010	1	3	0.700	
	63	4	0	34	RYDER BEACH RD	1300			0.560	

63	5	0	3	RYDER BEACH WAY	1010	1	5	0.850	
63	6	0	2	RYDER BEACH WAY	9500			0.730	
63	7	0	4	RYDER BEACH WAY	1010	1	3	1.830	
63	8	0	35	RYDER BEACH RD	1010	1	5	0.920	
63	9	0	37	RYDER BEACH RD	1010	1	4	0.610	
63	10	0	0	RYDER BEACH RD	9300			1.200	
63	11	0	5	RYDER BEACH WAY	1300			1.070	
63	12	0	6	RYDER BEACH WAY	1010	1	4	1.090	
63	14	0	2	RYDER HOLLOW RD	1010	1	1	0.830	
63	15	0	6	RYDER HOLLOW RD	1010	1	6	0.710	
63	16	0	8	RYDER HOLLOW RD	1010	1	4	1.000	
63	17	0	41	RYDER BEACH RD	1010	1	6	1.510	
63	18	0	44	RYDER BEACH RD	1320			1.370	
63	19	0	43	RYDER BEACH RD	1010	1	2	0.550	
63	20	0	45	RYDER BEACH RD	1010	1	3	1.280	
63	21	0	46	RYDER BEACH RD	1320			0.700	
63	22	0	0	RYDER BEACH RD	9000			8.260	
63	23	0	0	RYDER BEACH RD	9000			5.230	
63	24	0	2	BOUND BROOK ISL RD	1010	1	4	3.480	
63	25	0	1	BOUND BROOK ISL RD	1320			0.020	
63	26	0	0	RYDER BEACH RD	9300			0.857	
64	1	0	54	RYDER BEACH RD	1010	1	4	9.500	
64	2	0	8	FREEMAN RD	1010	1	5	8.017	
64	3	0	139	OLD COUNTY RD	1010	1	3	3.000	
64	3	0	139	OLD COUNTY RD	1010	2	1	3.000	
64	4	0	69	RYDER BEACH RD	1010	1	3	3.300	
64	5	0	0	OLD COUNTY RD	9000			2.990	
64	6	0	0	OLD COUNTY RD	9000			5.140	
64	7	0	0	BOUND BROOK ISLAND	9000			6.290	
64	8	0	0	BOUND BROOK ISLAND	9000			2.160	
64	9	0	0	BOUND BROOK ISLAND	9000			4.920	
64	10	0	155	OLD COUNTY RD	1010	1	2	3.000	
64	11	0	174	OLD COUNTY RD	1090	1	3	4.400	
64	11	0	174	OLD COUNTY RD	1090	2	3	4.400	
64	12	0	0	OLD COUNTY RD	9000			3.240	
64	13	0	0	OLD COUNTY RD	9000			4.790	
64	14	0	182	OLD COUNTY RD	9000			2.350	
64	15	0	0	OLD COUNTY RD	9000			3.550	
64	16	0	0	OLD COUNTY RD	9000			2.150	
64	17	0	186	OLD COUNTY RD	1010	1	2	3.380	
64	18	0	0	OLD COUNTY RD	9000			0.200	
64	19	0	0	BOUND BROOK ISLAND	9000			10.150	
64	20	0	76	RYDER BEACH RD	1010	1	3	3.350	
64	21	0	0	RYDER BEACH RD	9500			0.280	
65	1	0	0	OLD COUNTY RD	9300			1.630	
65	2	0	0	PAMET PT RD - OFF	9000			4.200	
65	3	0	0	PAMET PT RD - OFF	9000			2.800	
65	4	0	0	PAMET PT RD - OFF	9000			1.490	
65	5	0	0	PAMET PT EXIT	9300			0.940	
65	6	0	0	PAMET PT RD - OFF	9000			3.500	
65	7	0	0	PAMET PT RD - OFF	9000			4.960	
65	8	0	0	PAMET PT RD - OFF	9000			1.580	

	65	9	0	0		PAMET PT RD - OFF	9000			7.550	
	65	10	0	0		PAMET PT RD - OFF	9000			5.900	
	65	11	0	0		PAMET PT EXIT	9300			2.100	
	65	12	0	0		PAMET PT RD - OFF	9000			2.430	
	65	13	0	0		PAMET PT RD - OFF	9000			1.610	
	65	14	0	9		PAMET PT EXIT	1010	1	2	2.880	
	65	15	0	8		AUNT MARYS RD	1010	1	5	4.024	
	65	16	0	6		AUNT MARYS RD	1320			0.370	
	65	17	0	6	A	AUNT MARYS RD	1320			0.126	