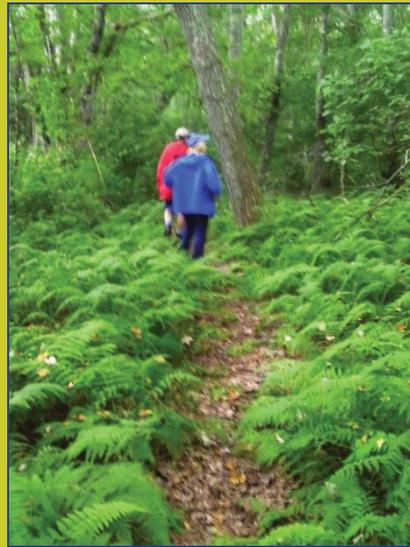


Improving public access to natural areas increases usage and public support for conservation



A Case Study in

- **Determining short-term & long-term goals**
- **Improving Public Accessibility**
- **Increasing Trail Accessibility**
- **Improving land conservation through scheduled management**

Gaining Traction on Public Access Projects



Clarkson Collins,

SRICD Chairman & Land Management Director
for South Kingstown Land Trust

Harvey Buford,

SRICD Director, Chairman of Hopkinton
Conservation Commission and active
volunteer of Hopkinton Land Trust

Kathryn Zuromski,

SRICD Biologist & GIS Specialist

Kate Bousquet,

SRICD District Manager & Agricultural Planner

Why is SRICD able to do this work?

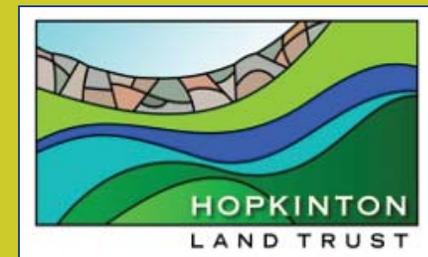
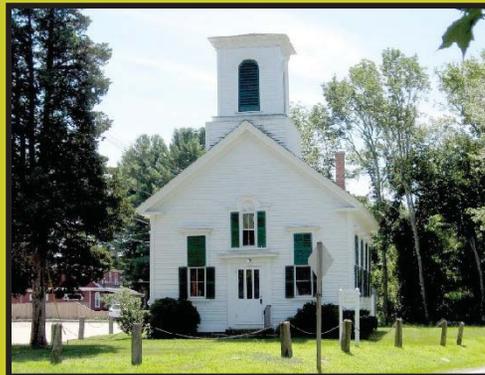
TITLE 2
Agriculture and Forestry

CHAPTER 2-4
Soil Conservation

SECTION 2-4-12

- **Conservation Districts are written into State Law (Agriculture, Title 2, Chapter 2-4)**
- **Intergovernmental Agreements allow Conservation Districts to “*aid in the carrying on of work towards the improvement for the conservation of renewable natural resources...*”**

***Hopkinton Conservation Commission,
in partnership with
Hopkinton Land Trust
&
Hopkinton Historical Association***



SYNOPSIS

- ✓ **Hopkinton Conservation Commission**
- ✓ **Land Trust Ordinance 2000**
- ✓ **\$1000 / Household**
- ✓ **Acquisition Focus HLT 1500 Acres**
- ✓ **10% Ag Easements 90% Public Access**
- ✓ **Other Public Properties: 4400 Acres**
- ✓ **Underutilized Properties**
- ✓ **How to get connected to the woods?**
- ✓ **Make Maps!**
- ✓ **In-House Mapping**

MAP CRITERIA

- All Public Accessible Properties
- Consistent Style
- Layout Quality – B&W Standard
- Easily Available – Print and On-Line
- Longevity – Future support for digital info
- Bonus Information
- Affordable
- Site Visit
- Flexibility – Hourly Budget vs. Lump Sum
- Ongoing Service

REALITY CHECK

Other Issues Come Into Play

- Not enough existing trails
- Trails not blazed and cleared
- No place to park
- No signs to pull people in or keep on track

Our Mission:

Solve ALL of these issues;

SRICD Tech Staff is our *partner of choice*

Mapping Hopkinton Land Trust Properties

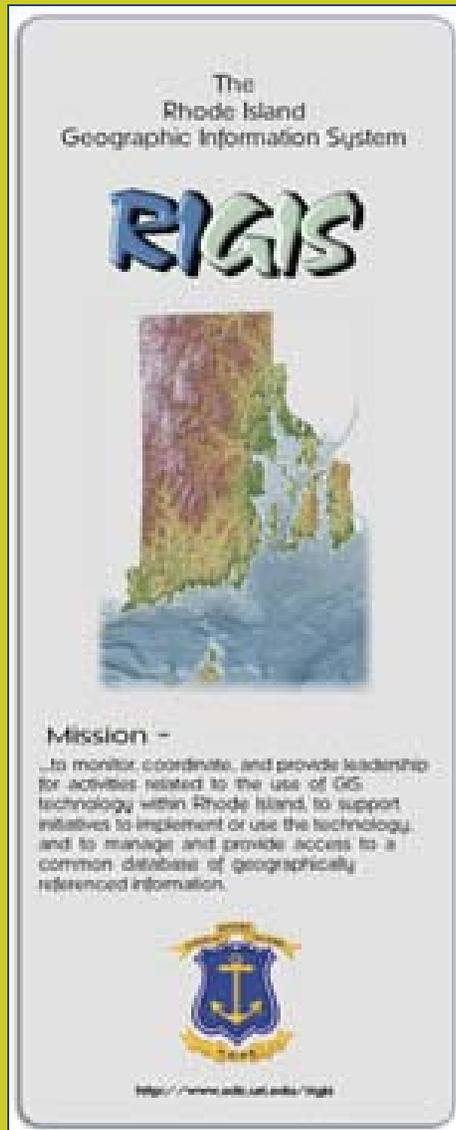
Trail mapping

Stone wall mapping

Wetlands permitting



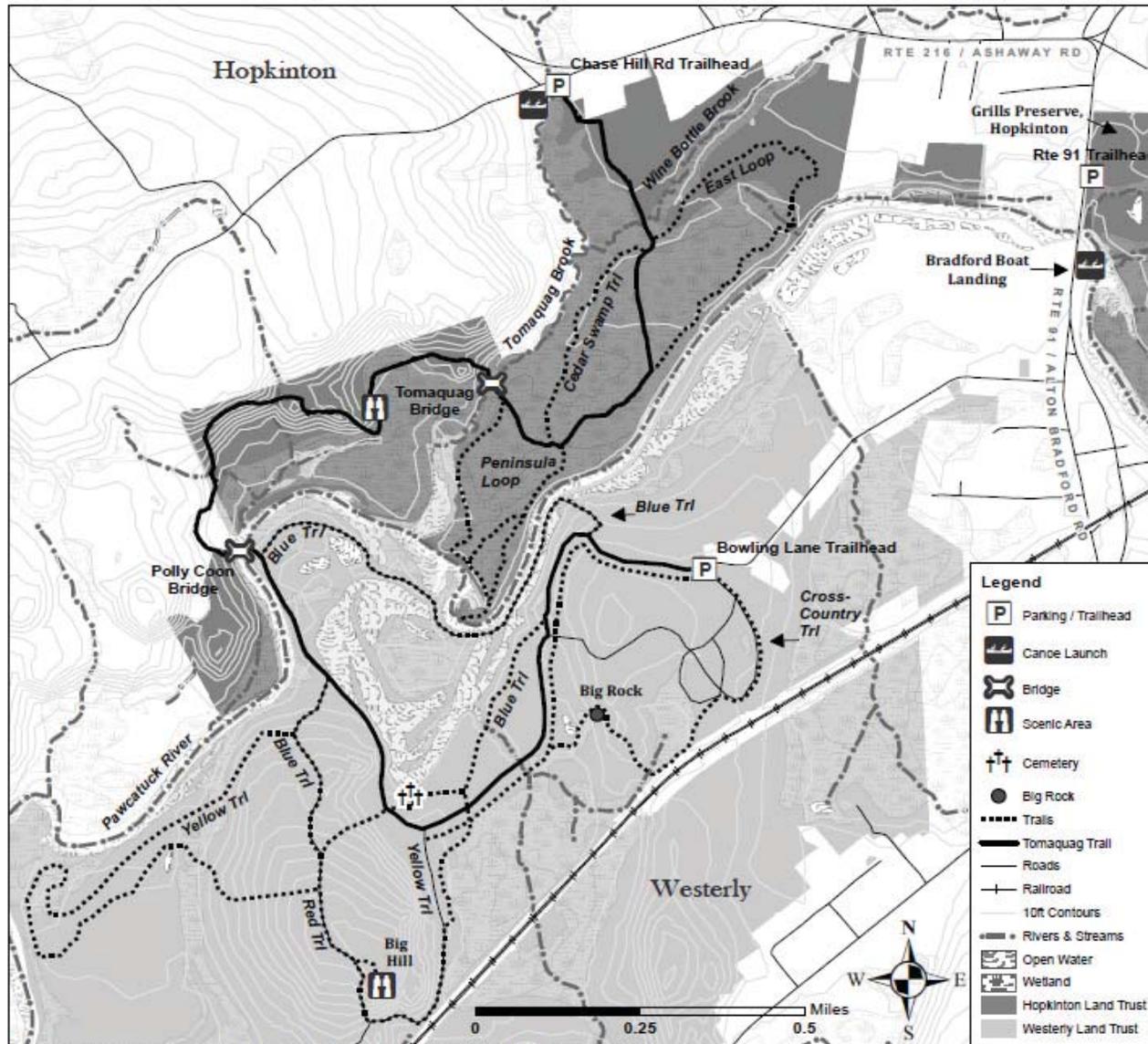
Geographic Information Systems (GIS) as a mapping and analysis tool.



- Collect data with GPS, including trail locations, points of interest, trailheads, boat launches, parking areas, etc.
- Transfer GPS trail data into a GIS.
- Calculate trail miles, add trail attributes.
- Include RIGIS data: roads, streams, wetlands, contour lines, aerial photographs.

<http://www.edc.uri.edu/rigis/data/>

Grills Sanctuary Trail Map



Grills Wildlife Sanctuary, Hopkinton and Grills Preserve, Westerly Trail Map

Site Location & Description

Located on the Hopkinton/Westerly border along the Pawcatuck River, these properties feature wide easy paths near both trailheads through forest, farm fields, and meadow. The path between the Tomaquag Brook Bridge and Polly Coon Bridge is narrow and steeper with large high rock overlooks interspersed with wooded swamps.

Open Sunrise to Sunset

Trail Use Guidelines

Observe posted rules and regulations
 Motorized vehicles are prohibited
 No fires
 No camping
 Keep off railroad tracks
 During hunting season wear blaze orange
 Leave no trace, please carry out trash

Trails

Tomaquag Trail, 3.1 mi (white diamond - Chase Hill Rd to Bowling Ln Trailhead)

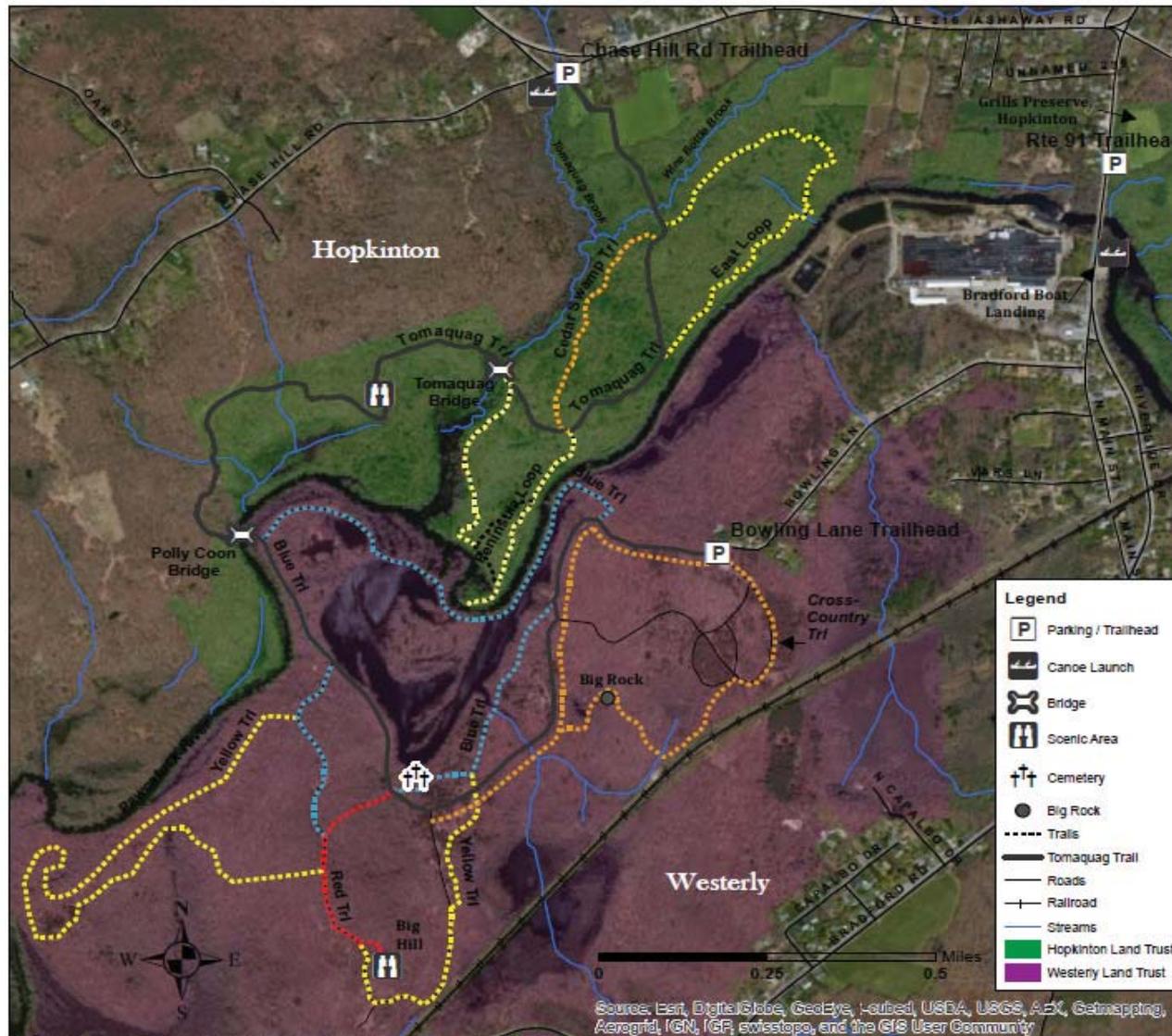
Hopkinton Trails:
 Cedar Swamp Trail, 0.4 mi (orange rectangle)
 East Loop, 0.8 mi (yellow square)
 Peninsula Loop, 0.7 mi (yellow diamond)

Westerly Trails:
 Blue Trail, 2.1 mi
 Yellow Trail, 2.1 mi
 Red Trail, 0.4 mi
 Cross Country Trail, 1.5 mi (orange)

Find this trail and more at:
www.hopkintonri.org
 and at www.exploreri.org

Map by the Southern RI Conservation District using RIGIS data, and made possible by the Hopkinton Conservation Commission.

Grills Sanctuary Trail Map with Aerial Photo



Grills Wildlife Sanctuary, Hopkinton and Grills Preserve, Westerly Trail Map

Site Location & Description

Located on the Hopkinton/Westerly border along the Pawcatuck River, these properties feature wide easy paths near both trailheads through forest, farm fields, and meadow. The path between the Tomaquag Brook Bridge and Polly Coon Bridge is narrow and steeper with large high rock overlooks interspersed with wooded swamps.

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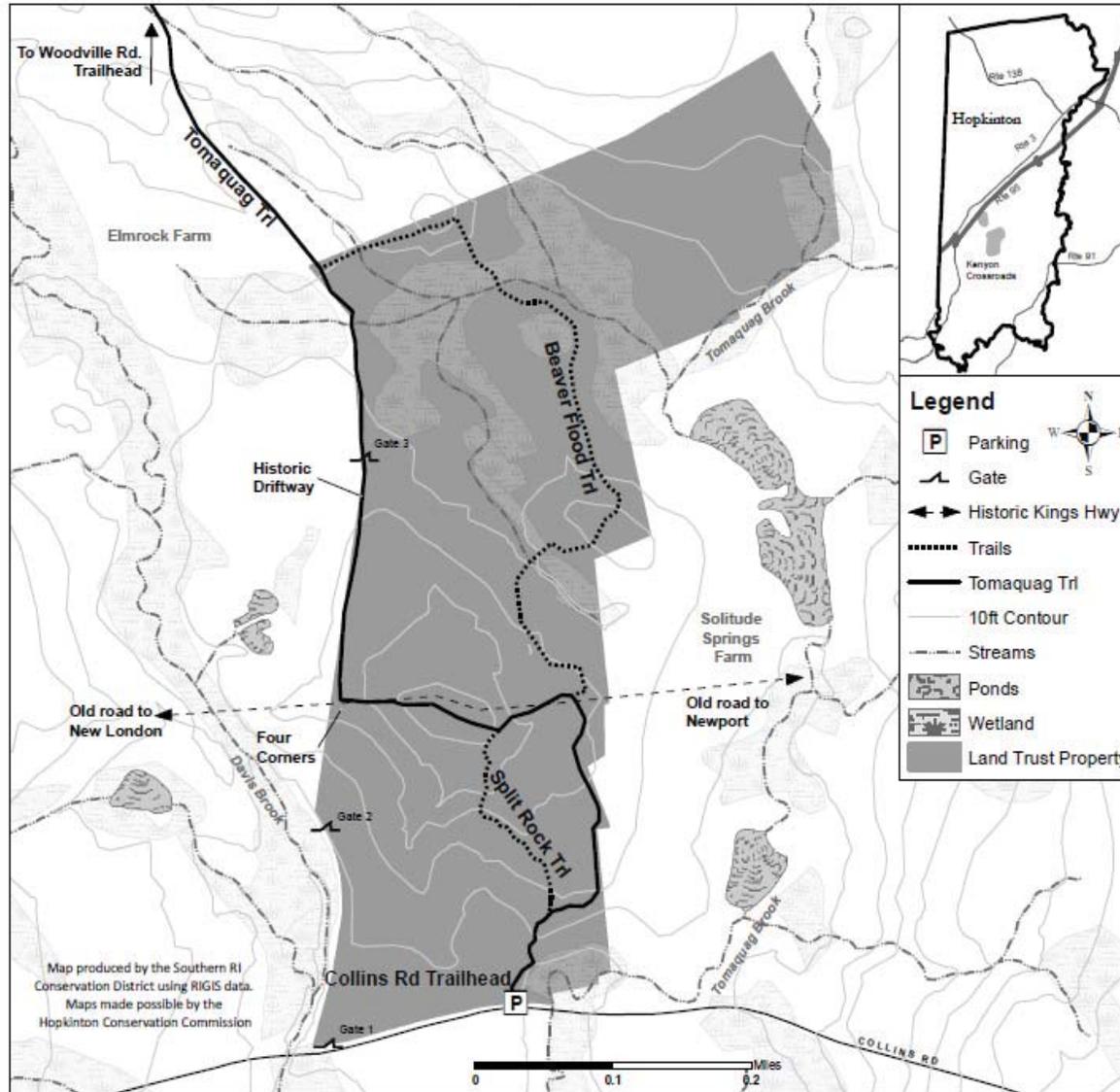
Trails

- Tomaquag Trail, 3.1 mi (white diamond - Chase Hill Rd to Bowling Ln Trailhead)
- Hopkinton Trails:
 - Cedar Swamp Trail, 0.4 mi (orange rectangle)
 - East Loop, 0.8 mi (yellow square)
 - Peninsula Loop, 0.7 mi (yellow diamond)
- Westerly Trails:
 - Blue Trail, 2.1 mi
 - Yellow Trail, 2.1 mi
 - Red Trail, 0.4 mi
 - Cross Country Trail, 1.5 mi (orange)

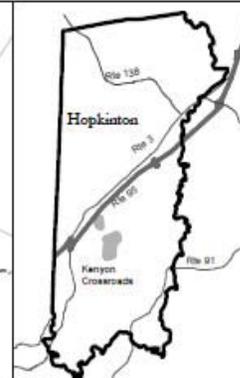
Find this trail and more at:
www.hopkintonri.org
 and at www.exploreri.org

Map by the Southern RI Conservation District using RIGIS data, and made possible by the Hopkinton Conservation Commission.

Kenyon Crossroads Trail Map



Map produced by the Southern RI Conservation District using RIGIS data. Maps made possible by the Hopkinton Conservation Commission



Legend

- Parking
- Gate
- Historic Kings Hwy
- Trails
- Tomaquag Trl
- 10ft Contour
- Streams
- Ponds
- Wetland
- Land Trust Property

A north arrow is also present.

Kenyon Crossroads

Trail Map

Open Sunrise to Sunset

Trail Use Guidelines:

- Observe posted rules and regulations
- Off-road vehicles are prohibited
- Be aware of other trail users
- Leave no trace, please carry out trash
- During hunting season wear blaze orange

Trails:

Woodville Rd Trailhead and kiosk is located just west of Niles Public Works Bldg. Collins Rd Trailhead is just west of the one lane bridge.

Tomaquag Trail - Woodville Rd to Collins Rd - 1.5mi (white diamond)

Split Rock Trail 0.2mi (yellow square)

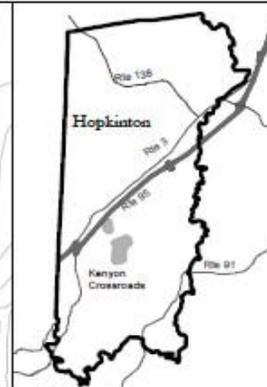
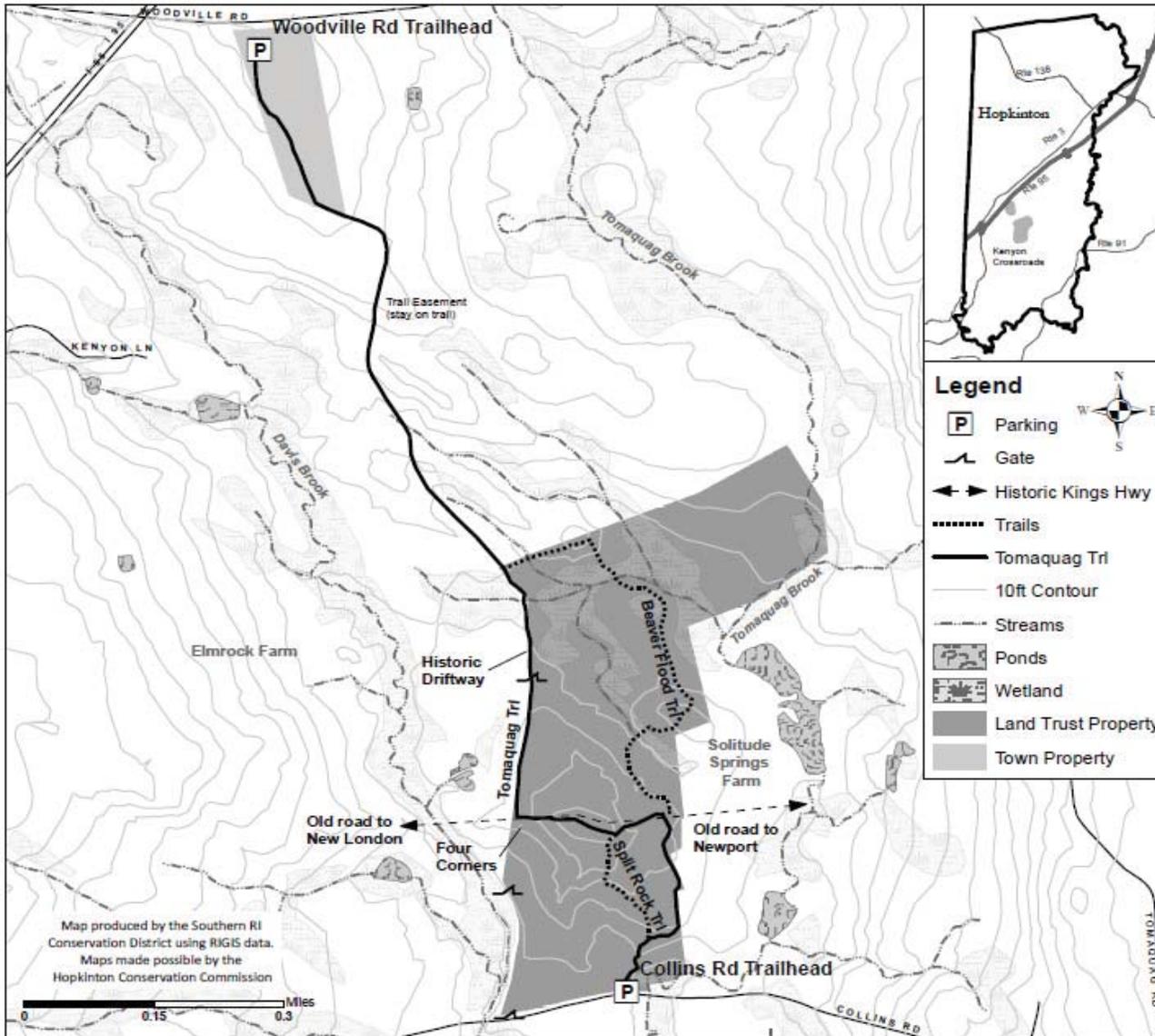
Beaver Flood Trail 0.6mi (yellow diamond)

Site Description:

This property features upland woods, swamp and agricultural lands, an 18th century settlement and Native American stone works. Three overgrown fields are being reclaimed for farming. This will complement the large field along Collins Road, the dairy operation at Elmrock Farm to the west and the grazing fields of Solitude Springs Farm to the east. Much of Tomaquag Trail is along an historic town Driftway which intersects the colonial era King's Highway at the Four Corners. Here there are house and barn foundations and large planted sugar maples and sycamores. Numerous farm stone walls complement the older Native American stone cairns. A boardwalk crosses a swamp, often flooded by beaver activity on Tomaquag Brook.

Find this trail and more at:
www.hopkintonri.org
 and www.exploreRI.org

Kenyon Crossroads Trail Map



Legend

- Parking
- Gate
- Historic Kings Hwy
- Trails
- Tomaquag Trl
- 10ft Contour
- Streams
- Ponds
- Wetland
- Land Trust Property
- Town Property

Map also includes a north arrow and a scale bar (0 to 0.3 miles).

Kenyon Crossroads

Trail Map

Open Sunrise to Sunset

Trail Use Guidelines:

- Observe posted rules and regulations
- Off-road vehicles are prohibited
- Be aware of other trail users
- Leave no trace, please carry out trash
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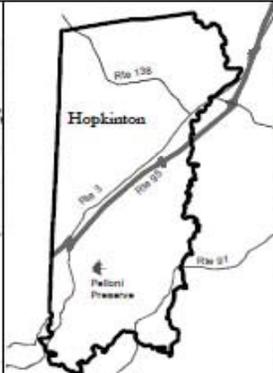
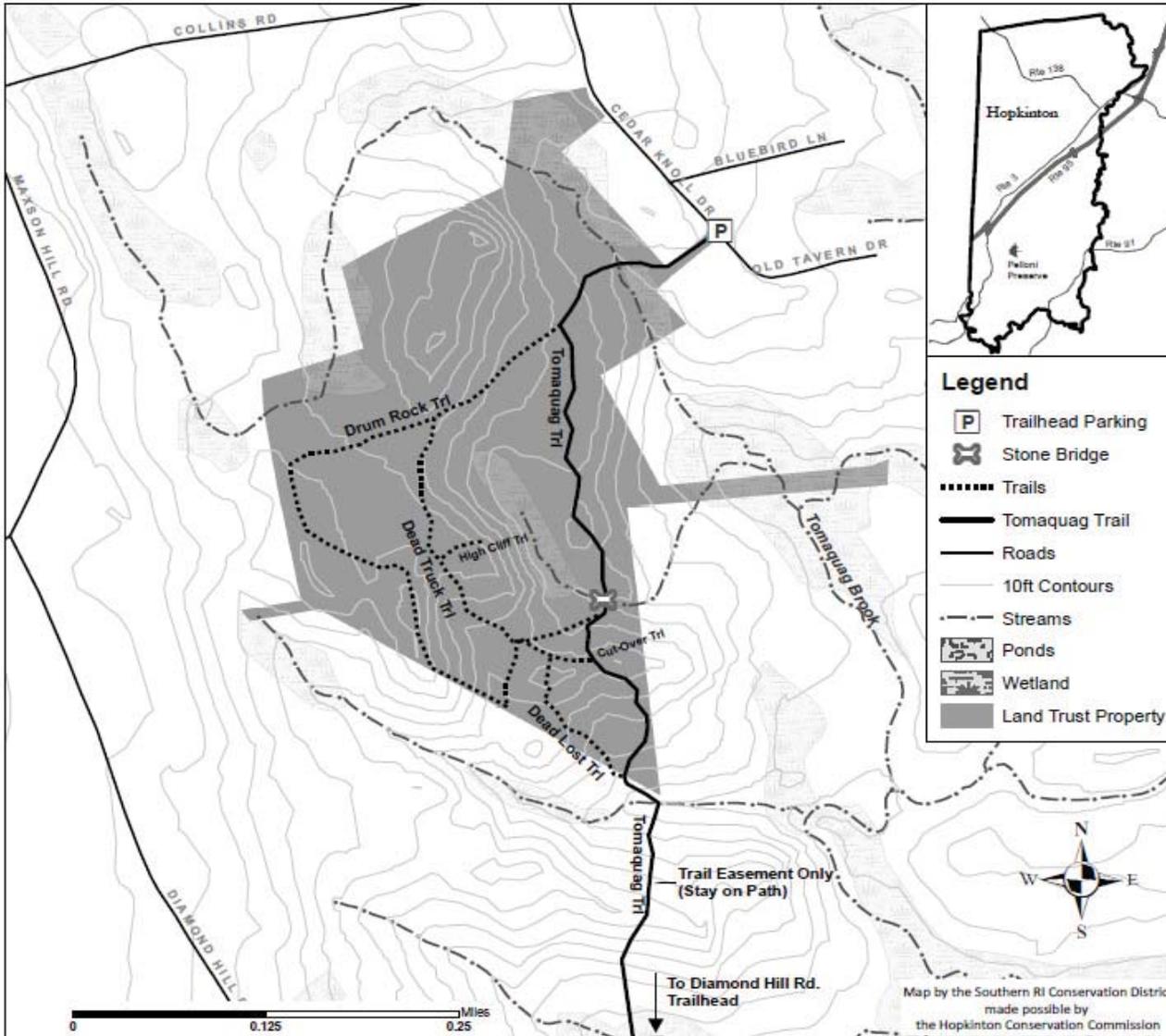
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Find this trail and more at:
www.hopkintonri.org
 and www.exploreRI.org

Pelloni Preserve Trail Map



Legend

- Trailhead Parking
- Stone Bridge
- Trails
- Tomaquag Trail
- Roads
- 10ft Contours
- Streams
- Ponds
- Wetland
- Land Trust Property

Pelloni Preserve Trail Map

Open Sunrise to Sunset

Trail Use Guidelines:

- Observe posted rules and regulations
- Off-road vehicles are prohibited
- Be aware of other trail users
- Leave no trace, please carry out trash
- During hunting season wear blaze orange

Trails:

- Tomaquag Trail 1.1 mi (white diamond)
- Dead Truck Trail 0.3 mi (blue diamond)
- Drum Rock Trail 0.4 mi (yellow square)
- Cut-over Trail 0.1 mi (blue rectangle)
- Dead Lost Trail 0.1 mi (yellow diamond)
- High Cliff Trail 0.03 mi (white square)

Site Description:

Two wooded, hilly tracts comprise the Pelloni Preserve. The northern tract is owned by HLT and its eastern spur reaches to Tomaquag Brook adjacent to the site of Hopkinton's first village. The spur to the brook is how dairy cows were watered. A 25 foot granite cliff complete with small caves separates a perched wetlands from the upland forest. A man-made drainage channel at the bottom of the cliff is spanned by a traditional stone slab bridge. Unusual Native American stone works are located on the property. The second tract consists of a trail easement; part of the greater Tomaquag Trail north - south system and combined, the tracts add 1.1 miles to Tomaquag Trail.

Note:

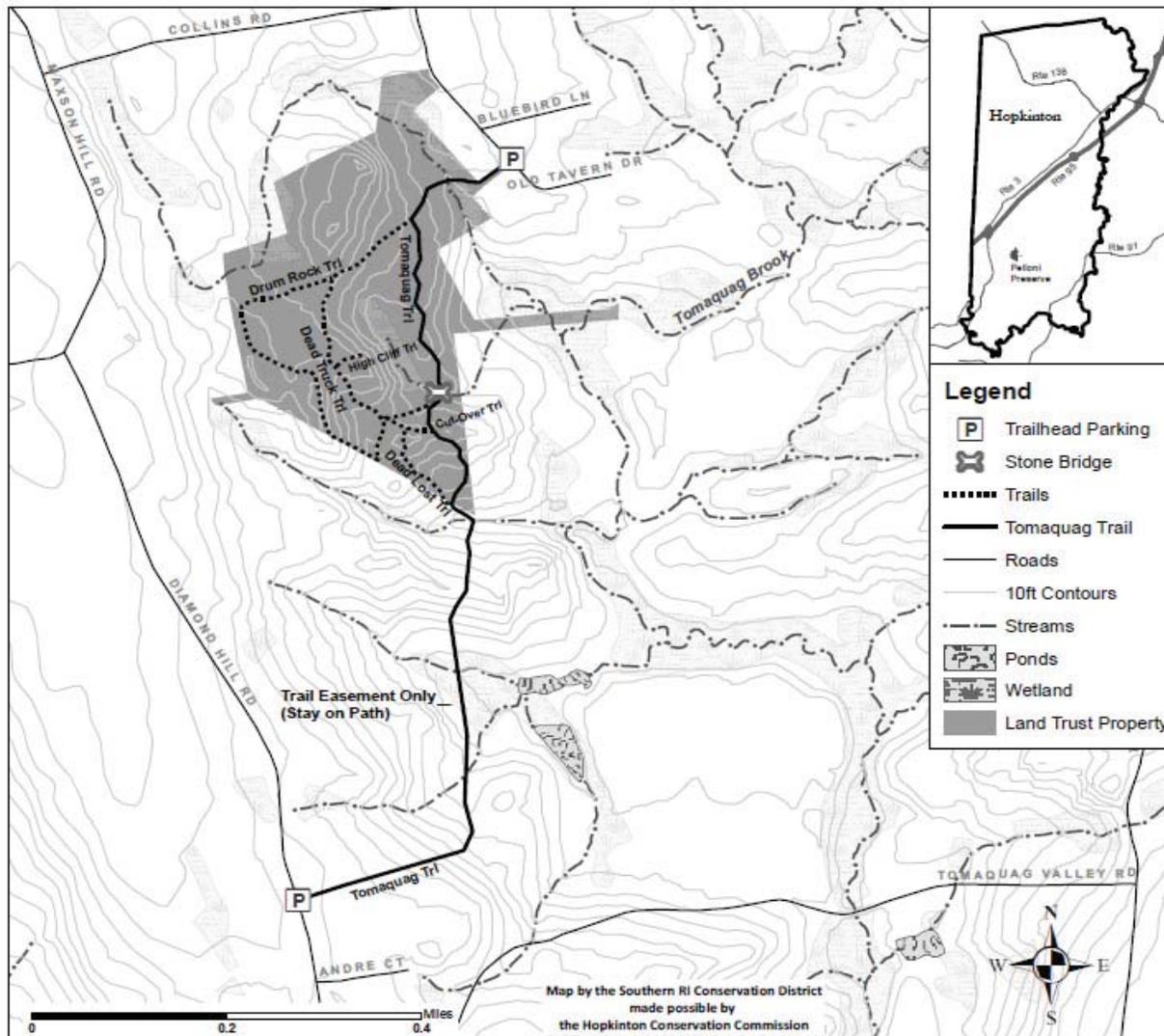
As of Fall 2013, trails are rudimentary. Trails are flagged but final improvements such as widening, signs and permanent blazing are not yet completed.

Find this map and more at:
www.hopkintonri.org
 and at www.exploreri.org



Map by the Southern RI Conservation District
 made possible by
 the Hopkinton Conservation Commission

Pelloni Preserve Trail Map



Pelloni Preserve Trail Map

Open Sunrise to Sunset

Trail Use Guidelines:

- Observe posted rules and regulations
- Off-road vehicles are prohibited
- Be aware of other trail users
- Leave no trace, please carry out trash
- During hunting season wear blaze orange

Trails:

- Tomaquag Trail 1.1 mi (white diamond)
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- Dead Lost Trail 0.1 mi (yellow diamond)
- High Cliff Trail 0.03 mi (white square)

Site Description:

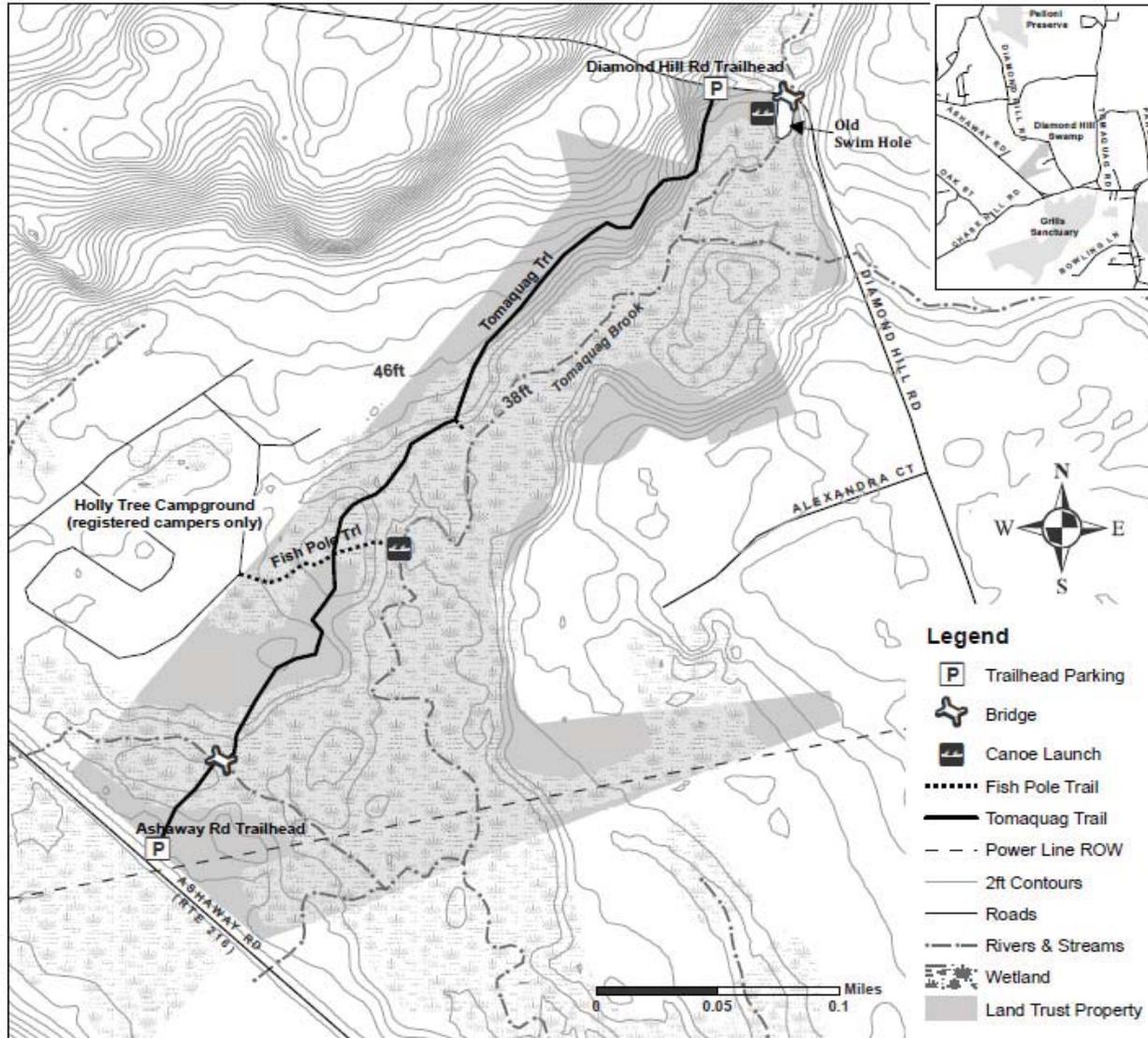
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Note:

As of Fall 2013, trails are rudimentary. Trails are flagged but final improvements such as widening, signs and permanent blazing are not yet completed.

Find this map and more at:
www.hopkintonri.org
 and at www.exploreri.org

Diamond Hill Swamp Trail Map



Diamond Hill Swamp Trail Map

Location:

Southern Hopkinton, between the overhead power line ROW on Ashaway Road (Rte 216), and the Diamond Hill Road Bridge over Tomaquag Brook.

Open Sunrise to Sunset

Trail Use Guidelines:

Observe posted rules and regulations
 Motorized vehicles are prohibited
 No fires
 No camping
 Wear blaze orange during hunting season
 Leave no trace, please carry out trash

Trails:

Tomaquag Trail, 0.4 mi (white diamond)
 Fish Pole Trail, 0.1 mi (orange rectangle)

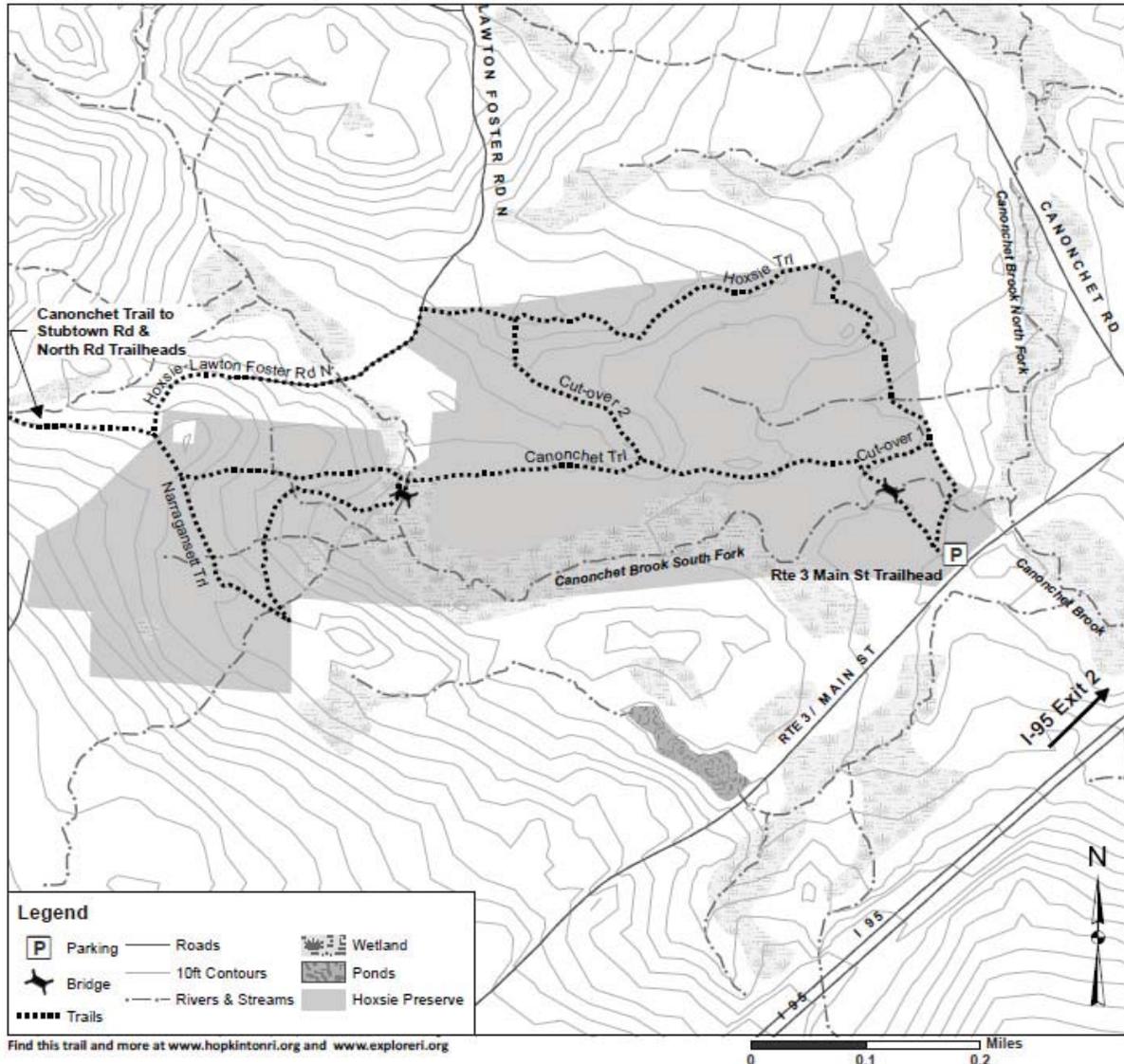
Site Description:

This property is located along the Hopkinton Land Trust north-south Tomaquag Valley Greenway. Hikers currently connect to the Grills Wildlife Sanctuary to the south and Pelloni Preserve to the north via the road system. The Tomaquag Brook wooded flood plain is the dominant property feature with mixed hardwood uplands along Tomaquag Trail. This is a rudimentary blazed trail without final clearing, signs or all-season stream crossings. Tomaquag Brook from Old Swim Hole south to the Pawcatuck River was canoed and fished when the entire area was cleared and farmed. The brook was well known as an excellent native trout fishery. The adjacent campground is collaborating with HLT to develop and maintain the trail system for public use. Please respect the boundary with this private campground.

Find this trail and more at:
www.hopkintonri.org,
 and www.exploreri.org

Map by the Southern RI Conservation District using RIGIS data. Map made possible by the Hopkinton Conservation Commission.

Hoxsie Preserve Trail Map



Hoxsie Preserve Trail Map

Open Sunrise to Sunset

Trail Use Guidelines:

- Observe posted rules and regulations
- Motorized vehicles are prohibited
- No fires
- No camping
- Wear blaze orange during hunting season
- Leave no trace, please carry out trash

Site Description:

The RT 3 Main St Trailhead located on TNC's Hoxsie Preserve serves both Hopkinton Land Trust and TNC properties. Most trails are in the upland woods with good winter views to the wooded swamp that follows Canonchet Brook South Fork. A dam and mill operated where Canonchet Trail crosses the South Fork via a stone bridge in the west. This western area is rugged with boulder upon boulder, glacial erratics and ledge outcrops. Walking past the stone walls, house and barn foundations, the old mill and extensive stone works at every turn along Narragansett Trail links you back centuries to those who came before. Canonchet Trail continues west and north to Stubtown Road, crossing other HLT and TNC Canonchet Preserve properties.

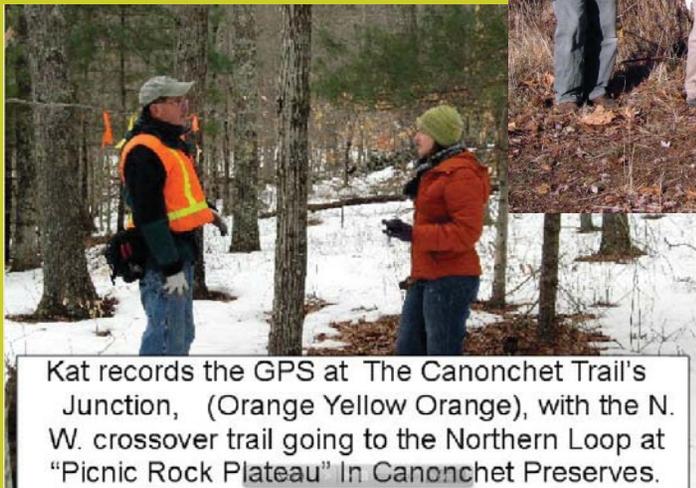
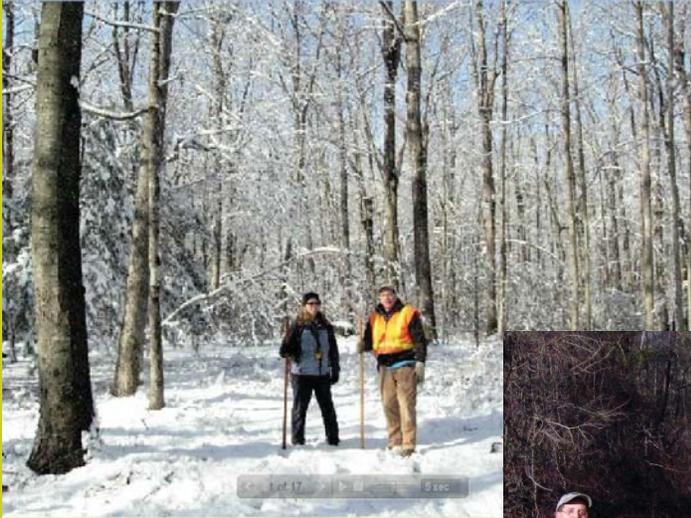
Trails:

- Canonchet Trail (0.8 miles, yellow blaze)
- Hoxsie Trail (1.0 miles w/road segment, blue blaze)
- Cutover 1 (0.06 miles, blue blaze)
- Cutover 2 (0.2 miles, yellow blaze)
- NarragansettTrail (0.4 miles, orange blaze)

Map by the Southern RI Conservation District using RIGIS data. Map made possible by the Hopkinton Conservation Commission.



Blazing Trails at Hoxsie Preserve



Kat records the GPS at The Canonchet Trail's Junction, (Orange Yellow Orange), with the N. W. crossover trail going to the Northern Loop at "Picnic Rock Plateau" In Canonchet Preserves.



The Canonchet Trail crosses the S.W. - N.E. Wall



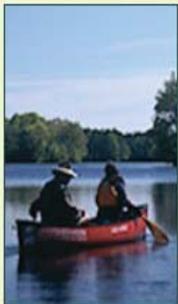
Photos courtesy of Tom Helmer at <http://www.hopkintonhistoricalassociation.org/>

Post Maps to Explore RI



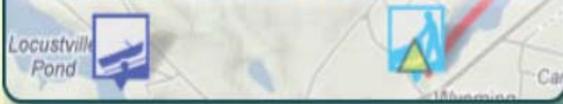
photo: ©iStockphoto.com/GerMan107

Go Paddling:



ExploreRI has information on fresh and saltwater paddling in RI and the Narragansett Bay watershed, from the Blackstone to the Wood-Pawcatuck, to the Taunton River in Massachusetts! Here are some ways to find your next paddling destination and paddle safely:

Interactive Water Mapper: Find Put-ins, Boat Ramps and Paddle Trails



Go for a Walk:



ExploreRI has information about walking trails all across Rhode Island, from Newport to Glocester and Westerly to Little Compton. Whether you want a casual, easy walk for a sunny Saturday afternoon, or a more challenging day-long hike, there's a trail here for you!

Interactive Trail Mapper: Find Walking Trails



Blue & Greenways News

► [Read the latest news](#)

EastBayRI Article

[Coverage of the new Bristol Harbor paddle tour maps](#)

Boston Globe Article

[Read this great article about the new water trail maps](#), published in the Boston Globe on May 26, 2013.

Winter Paddling Warning:

 Winter is still here and while it may look tempting to head out for some cold weather paddling, only experienced paddlers

Post Maps to Hopkinton Town website

<http://www.hopkintonri.org/hopkintonoutdoors.htm>



HOPKINTON
RHODE ISLAND

Home
Directions
Contact Us

Home

Government

Departments

Online Services

Public Safety

Contact Us

HOPKINTON OUTDOORS

The **Hopkinton Outdoors** webpage has been created by the Hopkinton Conservation Commission to provide a central repository for residents and visitors to obtain information, regarding the plentiful outdoor activities available in Hopkinton. On this webpage, you will find maps depicting the various public lands and water trails; information on boat landings, fishing and hunting; and the location of farms that sell products directly to the general public.



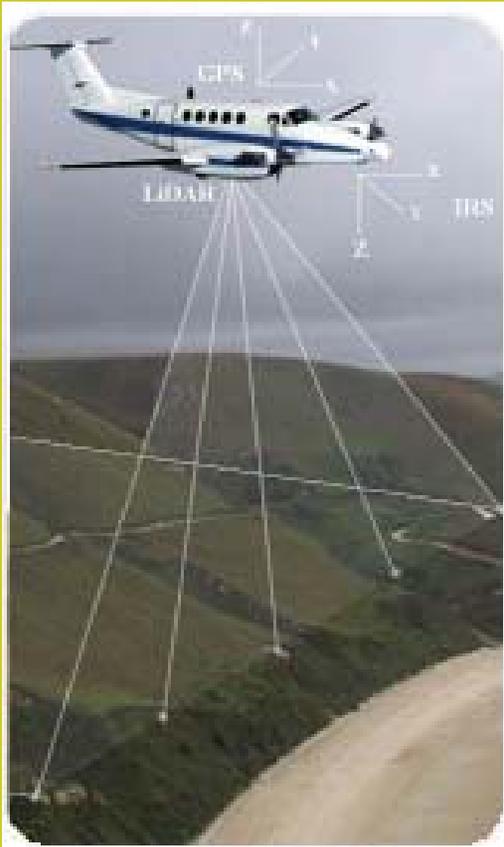
Collectively, the Hopkinton Land Trust, Rhode Island Department of Environmental Management, Rhode Island Audubon Society, The Nature Conservancy and the Boy Scouts of America maintain thousands of naturally landscaped acres open for public enjoyment in Hopkinton. Residents and visitors are encouraged to enjoy the acreage, but asked to please respect the rules and regulations specific to each protected landscape.

Trail Maps



Mapping with LiDAR data

Light Detection and Ranging, is a remote sensing method that uses light in the form of a pulsed laser to measure ranges (variable distances) to the Earth. These light pulses—combined with other data recorded by the airborne system— generate precise, three-dimensional information about the shape of the Earth and its surface characteristics*.



Examples of LiDAR uses*

... generate digital elevation models and contours for use in:

Engineering design and design reviews

(irrigation design, pivots, pipelines, surge valves and livestock pipelines)

Conservation planning (HEL Determinations, practice design, landscape visualization)

Floodplain mapping

hydrologic modeling

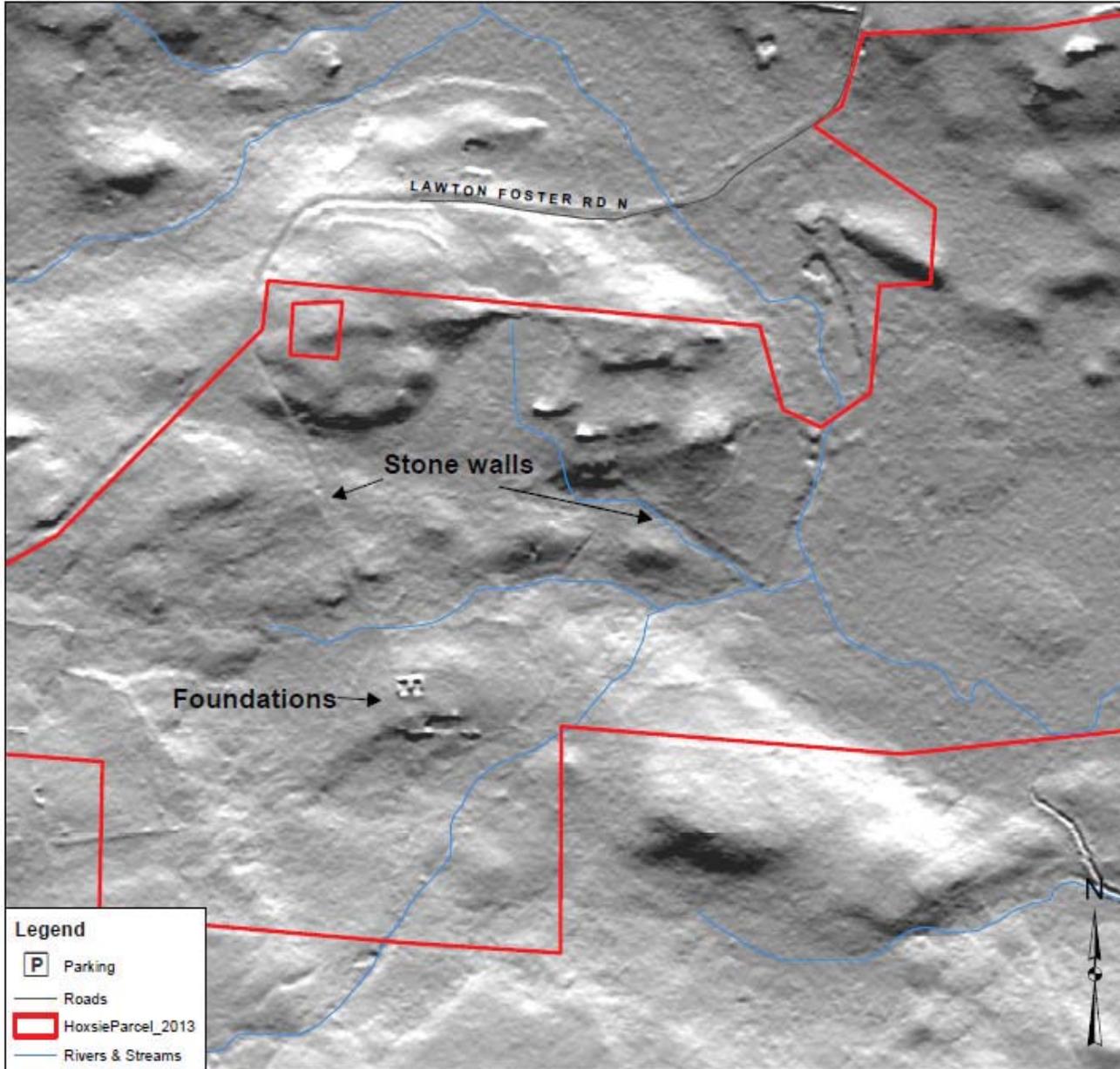
Soil Survey (slope, aspect)

Dam safety assessments

Surface Feature Extraction (trees, shrubs, roads, buildings)

Vegetation Mapping (Height, Density)

Landform Extraction (ridges, benches, valleys)



Find this trail and more at www.hopkintonri.org and www.exploreri.org

Hoxsie Preserve

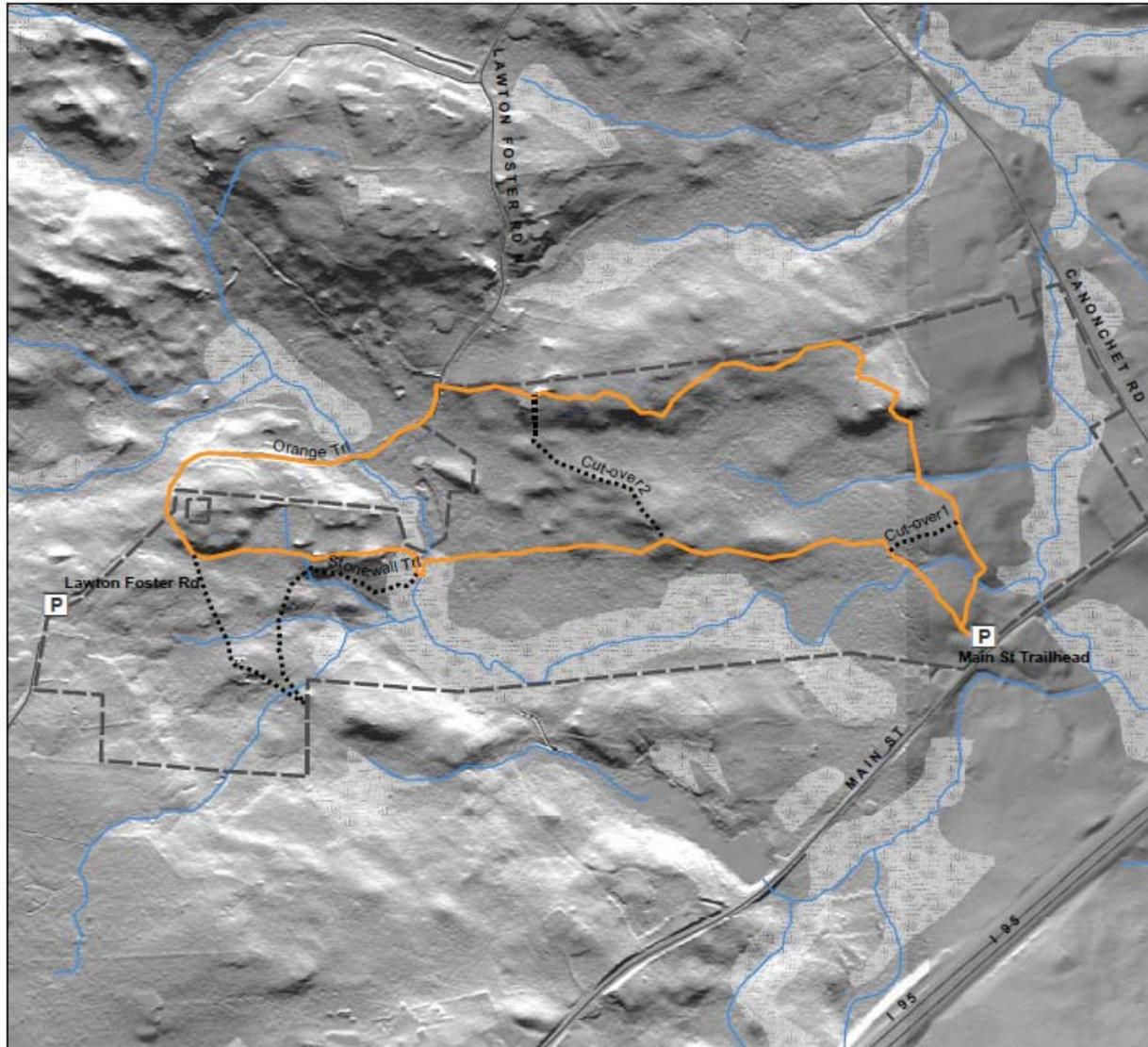
Site Description:

The RT 3 Main St Trailhead located on TNC's Hoxsie Preserve serves both Hopkinton Land Trust and TNC properties. Most trails are in the upland woods with good winter views to the wooded swamp that follows Canonchet Brook South Fork. A dam and mill operated where Canonchet Trail crosses the South Fork via a stone bridge in the west. This western area is rugged with boulder upon boulder, glacial erratics and ledge outcrops. Walking past the stone walls, house and barn foundations, the old mill and extensive stone works at every turn along Narragansett Trail links you back centuries to those who came before. Canonchet Trail continues west and north to Stubtown Road, crossing other HLT and TNC Canonchet Preserve properties.

Map by the Southern RI Conservation District using RIGIS data. Map made possible by the Hopkinton Conservation Commission.

The Nature Conservancy
Protecting nature. Preserving life.™

Hoxsie Preserve Draft Trail Map w/ LiDAR



Hoxsie Preserve Trail Map

Location:

Open Sunrise to Sunset

Trail Use Guidelines:

Observe posted rules and regulations
Motorized vehicles are prohibited
No fires
No camping
Wear blaze orange during hunting season
Leave no trace, please carry out trash

Site Description:

Trails:

Orange Trail (1.8 miles)
Cutover 1 (0.06 miles)
Cutover 2 (0.2 miles)
Stonewall Trail (0.4 miles)

Legend

	Parking
	Trails
	Orange Tri
	Roads
	Rivers & Streams
	Wetland
	Hoxsie Property



Map by the Southern RI Conservation District
using RIGIS data. Map made possible by the
Hopkinton Conservation Commission.

Find this trail and more at www.hopkintonri.org and www.exploreri.org



0 0.1 0.2 Miles

Trailhead Parking Area: Wetlands Permitting

Location of Proposed Parking Area, Hopkinton Land Trust, Collins Rd, Hopkinton, RI



Map by Southern RI Conservation District, made possible by the Hopkinton Conservation Commission, February 2014. Data Sources: RIGIS, Town of Hopkinton, ArcOnline Imagery

Parcel 004/000/00610

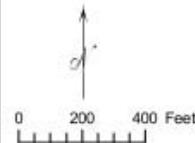
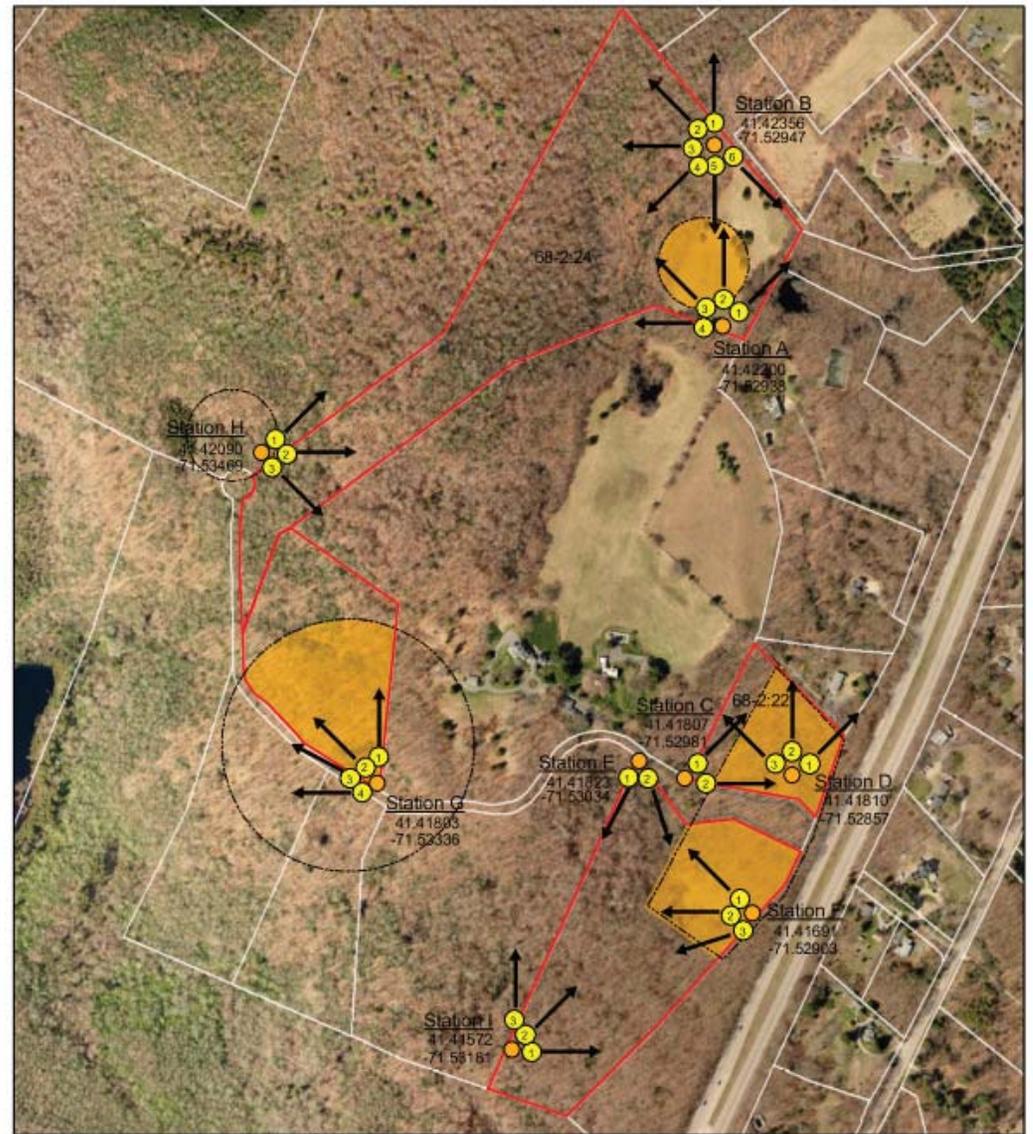
0 800 1,600 Feet

Ideal Action Sequence after establishing objectives:

- **Determine Baseline**
- **Develop partnerships / agreements**
- **Explore multiple funding sources**
- **Plan & Map Trails**
- **Obtain necessary permits**
- **Develop Land Management Plan**
- **Regularly assess achievement of objectives**

Typical Baseline Survey Map

SKLT's typical baseline maps show geographic data points of the lot corners of and where photographs were taken. Photos are included in the file for the property.



OH Perry Farm Baseline 10/29/10 and 11/7/10
68-2:24, 68:10, 68-3:25, 68-2:22, South Kingstown, Rhode Island

parcel boundary
excluded area

Boundary of "Limited Building Area"
From Exhibit A - Conservation Easement Plan
Commodore Perry Farm, South Kingstown, RI
May, 1992

Data Sources:

Parcels December 2009; Town of South Kingstown GIS
2008 Color Imagery; Rhode Island Digital Atlas
Baseline Station Locations: South Kingstown Land Trust

**Land Management Plan for
UBS Diamond Hill Property**

Hopkinton Land Trust

Plat 2, Lot 52D

Situated between *Ashaway Road, Diamond Hill Road, & Chase Hill Road*
in Hopkinton, Rhode Island 02833

[Maps are included on Pages 9-19]

Assessed & Written by: Kate Bousquet, Southern RI Conservation District
In coordination with C. Johnson & H. Buford
September, 2013



Contents:

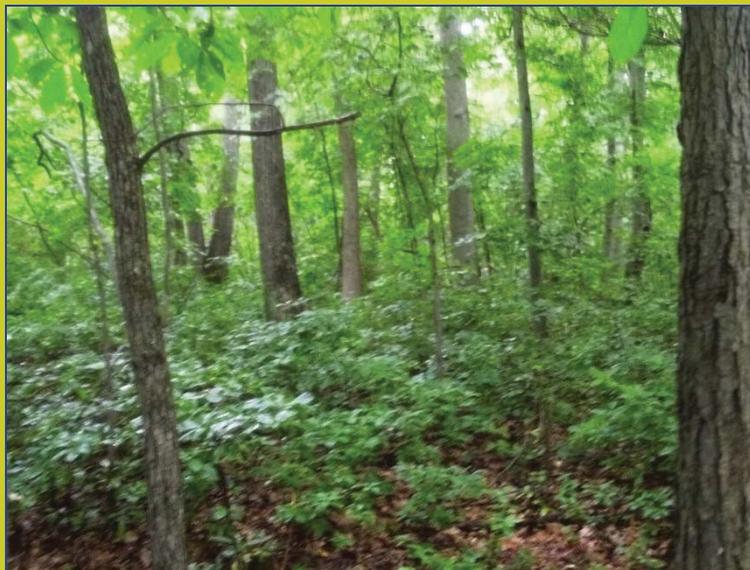
- **Summary of Management Plan**
- **Management Plan**
 - ❑ Property Description
 - ❑ Resource Inventory & Inherent Values
 - ❑ Table 1: Soils
 - ❑ Table 2: Local Resource Inventory
 - ❑ Table 3: Resource Limitations & Recommended Uses
 - ❑ Table 4: Management Objectives, Action Plans & Schedule
- **Maps**
 - ❑ Map 1: Property Location Map
 - ❑ Map 2: Existing Conditions
 - ❑ Map 3: Property Areas
 - ❑ Map 4: Managements & Infrastructures
 - ❑ Map 5: Soils Map
 - ❑ Map 6: Soils Map with Wetlands Overlay
 - ❑ Map 7: Wetlands Map
 - ❑ Map 8: Topographic Map
 - ❑ Map 9: Local Resource Map
 - ❑ Map 10: 2012 Tomaquag Trail Map
 - ❑ Map 11: 100-Year Flood Lines
- **Appendices**
 - ❑ Appendix A: Hopkinton Land Trust's Stewardship List
 - ❑ Appendix B: USDA NRCS Application Process
 - ❑ Appendix C: National Parks Service Handbook: Standards for Trail Construction
 - ❑ Appendix D: National Parks Service Handbook: Trail Structures

Land Management Plans

Compilation Of:

- Land use objectives
- Resource Inventory
- Descriptive Maps
- Best land uses
- Best management practices
- Action Plan,
including timeframes / schedules

UBS Diamond Hill, Hopkinton Land Trust



Land use in 2013:
Dense forest, with roughly
established hiking trails



Map 2



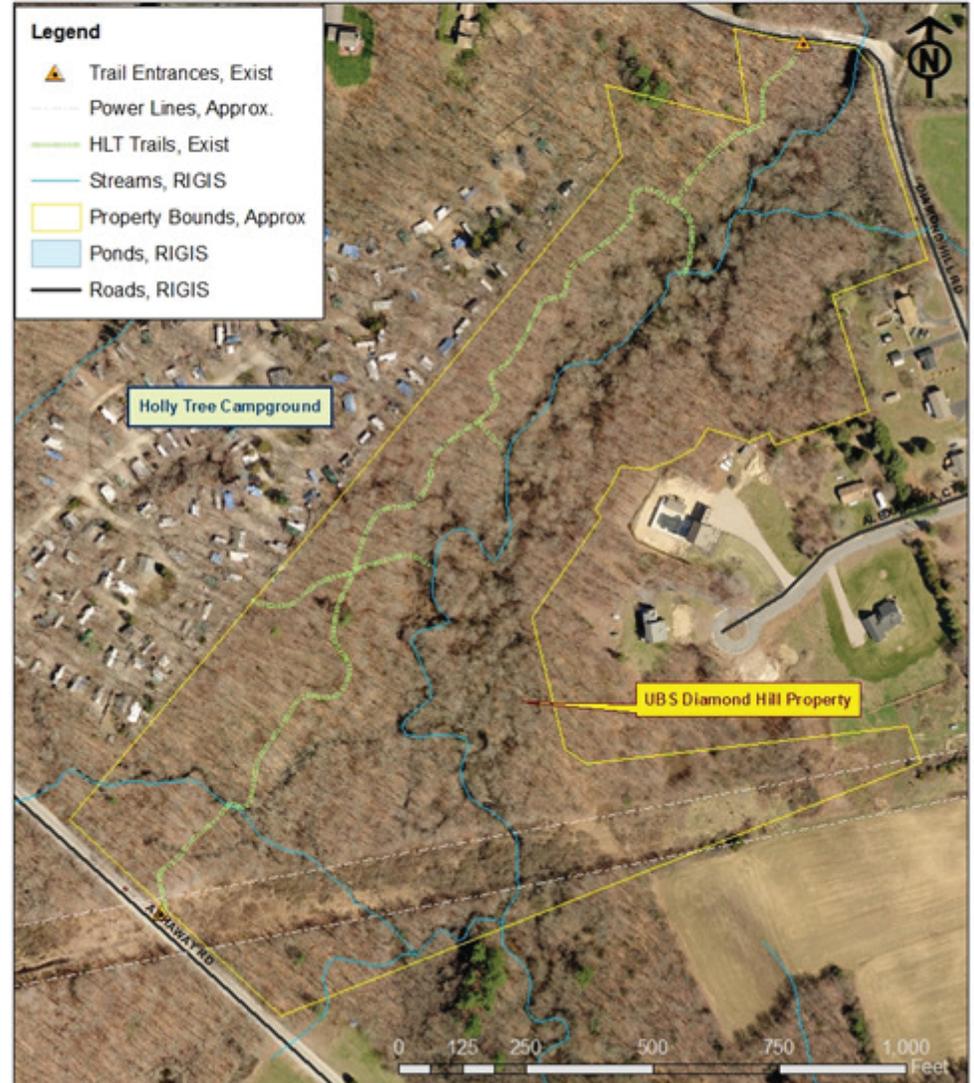
Southern RI Conservation District
PO Box 1636
East Farm Way, Bldg #50
Kingston, RI 02881
401-500-0422

Data Sources:
RI GIS USDA-NRCS
USGS 2008 Base Imagery

Prepared by: Kate Bousquet, SRICD

Existing Conditions

Hopkinton Land Trust
Property: UBS Diamond Hill
Plat 2 Lot 52D
Hopkinton, RI 02833



Land Use recommendations for Diamond Hill property

Area I.D.	Acreage	Existing Use	Limitations	Recommended Use
1 Northern / Southwestern half	17.81 acres (approx.)	Forest	<ul style="list-style-type: none"> ▪Overgrown forest understory ▪Underdeveloped trail system ▪Limited vehicular access 	<ul style="list-style-type: none"> ▪Forestland: Fuel Wood Lot ▪Recreational: Hiking Trails
2 Southern / Southeastern half	13.29 acres (approx.)	Riparian Buffer & Stream	<ul style="list-style-type: none"> ▪Hydric soils, wetland flora & fauna ▪Slope ▪Unidentified Launching areas ▪Limited vehicular access 	<ul style="list-style-type: none"> ▪Forestland: Wetland Wildlife Habitat ▪Recreational: Canoe & kayak passage

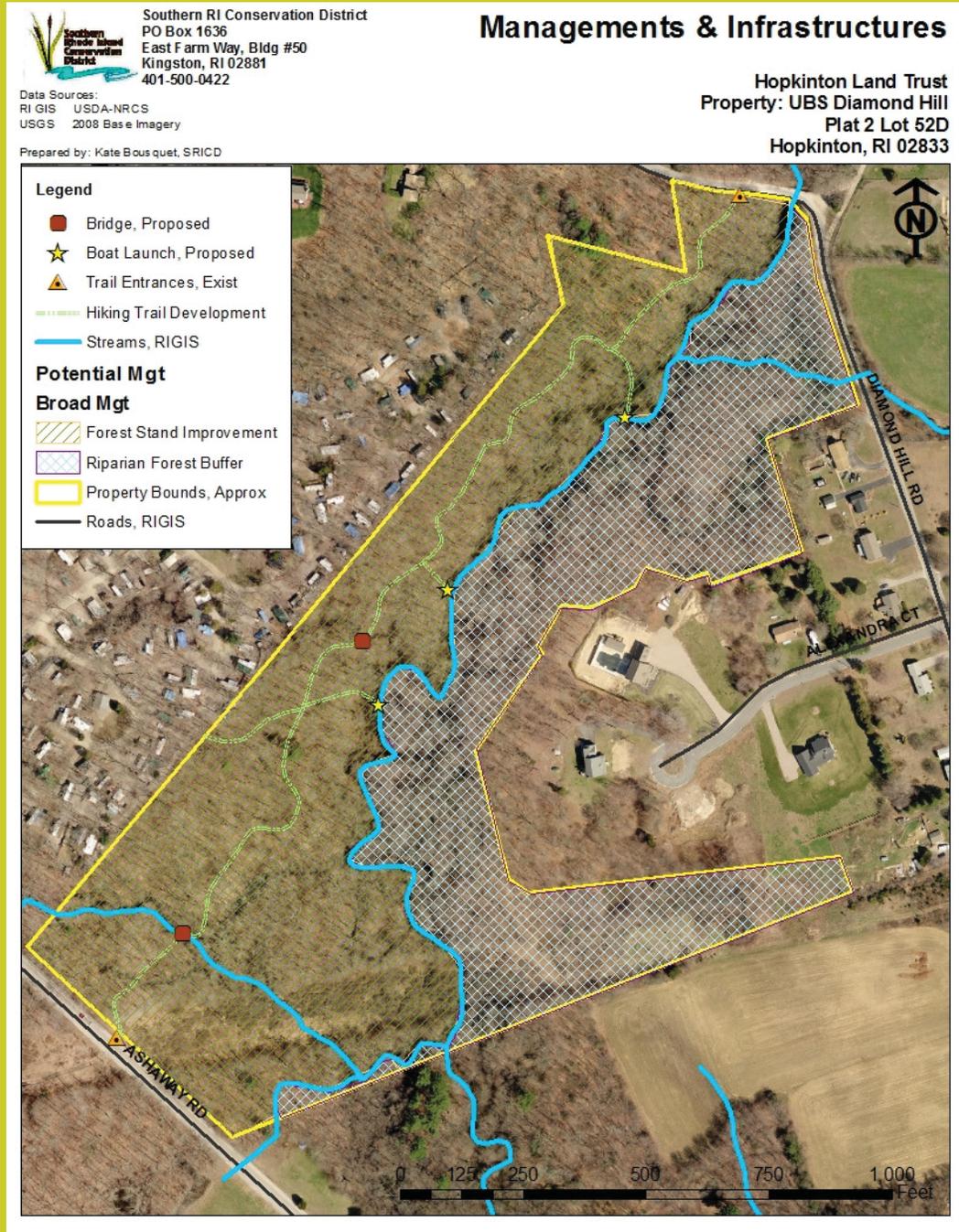
Timeframes

+

Actions

=

Fulfilling objectives!



Diamond Hill, HLT:

“A timeframe of two to five (2-5) years should be expected in order to achieve all of the short-term and long-term objectives within this Plan. The present conditions of the property will require some initial investment of time, planning, communication, and money for expected success.”

Diamond Hill, Hopkinton



Management Objectives, Action Plans, Schedule			
	Objectives	Actions & Practices	Schedule by Year, First 6 months (A) / Second 6 months (B)
Short Term	Establish Boundaries	<ol style="list-style-type: none"> Property Boundaries <ol style="list-style-type: none"> Locate corners Mark corners & property boundaries Wetland Boundaries <ol style="list-style-type: none"> Wetland determination Mark boundaries with wetland delineation 	<ol style="list-style-type: none"> Year 1, A Year 1, A
	Manage Woody Debris	<ol style="list-style-type: none"> Clear threatening/overhanging deadwood & branches Manage Storm damages & wind blown woody debris 	<ol style="list-style-type: none"> Year 1, A Year 1, A&B
	Develop a Forest Management Plan	<ol style="list-style-type: none"> Apply for USDA NRCS funding Develop Plan Implement Plan 	<ol style="list-style-type: none"> Year 1 Year 1 Year 2, A&B
	Establish Hiking Trail	<ol style="list-style-type: none"> Trail maintenance 	<ol style="list-style-type: none"> Year 1, B
	Designate "Forest Steward"	<ol style="list-style-type: none"> Formally begin conversations with owners of Holly Tree Campground Establish Agreement between Campground & Hopkinton Land Trust 	<ol style="list-style-type: none"> Year 1, A Year 1, B
Long Term	Further development of Tomaguag Valley Corridor	<ol style="list-style-type: none"> Investigate possible / practical linkages: <ol style="list-style-type: none"> Water linkage from Tomaguag Brook on UBS Diamond Hill property to Chase Hill Road trail head at Grills Wildlife Sanctuary Water linkage from Tomaguag Brook on UBS Diamond Hill property to "swimming hole" where Diamond Hill Road crosses brook Hiking Trail linkage between Grills Wildlife Sanctuary (south of property), UBS Diamond Hill property, abutting properties with existing easements & nonexistent linkages Initiate contact with abutting neighbors where easements would be necessary for completing trail(s) Plan linkages (paperwork, signatures, etc.) Finalize linkages 	<ol style="list-style-type: none"> Year 2, B Year 3, A&B Year 4, A By Year 5, B
	Establish Hiking Trail	<ol style="list-style-type: none"> Initiate Full Trail Development <ol style="list-style-type: none"> Establish Quality of trails Establish Width of trails Locate possible sites for stream crossings for seasonal & intermittent streams Implement Trail Development Finalize Trail Development 	<ol style="list-style-type: none"> Year 2, B Year 3, A By Year 4, A
	Establish Stream Crossings	<ol style="list-style-type: none"> Develop plan to install Stream Crossings <ol style="list-style-type: none"> Shortest distance across wetland areas Determine materials for crossings (i.e. stepping stones, wood slats, etc.) Installation of Stream Crossings 	<ol style="list-style-type: none"> Year 2, B By Year 5, B

Phillips Farm, Glocester Land Trust

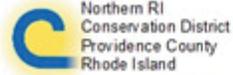


Land use in 2011: hiking trails with delayed mowing for wildlife habitat



Sheet 2

Land Use Map

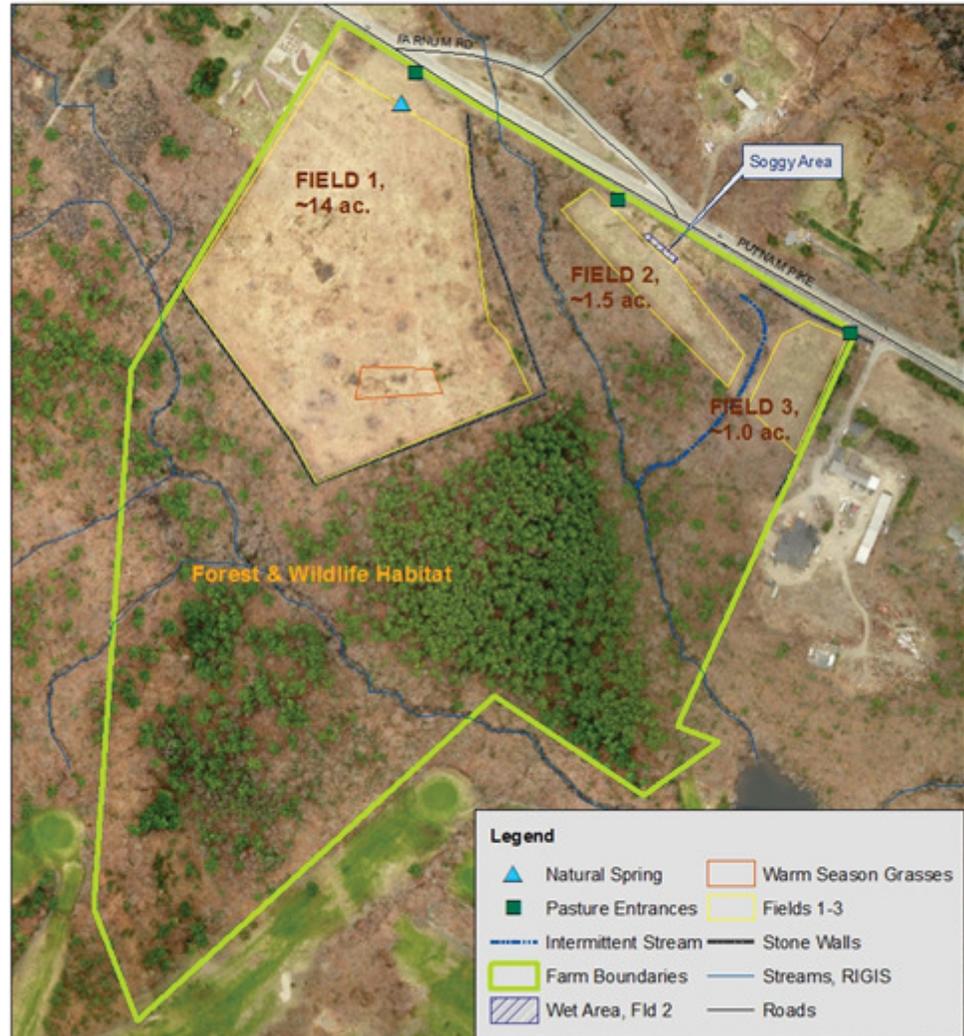


Northern RI
Conservation District
Providence County
Rhode Island

Phillips Farm
Plat 17, Lot 39, Putnam Pike Harmony, RI 02829

Owner: Gloucester Land Trust

Map Source:
NIGS USCA/VICIS
USGS RI DOT 2003-04 Base Image



Kate Bousquet, Ag Tech
RI State Conservation Committee
katejbousquet@gmail.com
(401) 215-5269

0 125 250 500 750 1,000 Feet



Land Use recommendations for Phillips Farm, GLT

Field	Acreage	Existing Use	Recommended Use	Limitations
1	14 acres	Grassland	Hayland, Pasture, Cropland	<ul style="list-style-type: none"> ▪ Overgrown with undesirable broadleaf plants & woody invasives. ▪ Rock outcrops throughout field. ▪ No ample watering sources for animals. ▪ No fencing.
2	1.5 acres	Grassland	Hayland, Pasture, Cropland with Raised Beds	<ul style="list-style-type: none"> ▪ Rock outcrops throughout field. ▪ Slope. ▪ No ample watering sources for animals. ▪ No fencing.
3	1.1 acres	Grassland	Hayland, Pasture, Cropland with Raised Beds	<ul style="list-style-type: none"> ▪ Rock outcrops throughout field. ▪ Slope. ▪ No ample watering sources for animals. ▪ No fencing.

Phillips Farm, GLT:

“A timeframe of 8-10 years should be expected to achieve a fully operational and easily managed farm. Renovations can be achieved through biological, mechanical or chemical means. Soil testing in the fall and soil amendments applied in the spring will be necessary every year until desired soil health & plant communities are established.”

Operational Goals & Sequence Guide:

Year	Hayland	Pasture		Cropland
1 or 2	<input type="checkbox"/> Field Renovations Planned: Mechanical or Chemical Renovations Chosen <input type="checkbox"/> Spring/Summer Renovations implemented <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Soil Testing - Fall <input type="checkbox"/> Field Renovations Planned: Biological, Mechanical, or Chemical Renovations Chosen <input type="checkbox"/> Spring/Summer Renovations implemented		<input type="checkbox"/> Devise plan for growing crops <input type="checkbox"/> Spring/Summer Renovations implemented <input type="checkbox"/> Soil Testing - Fall
2 or 3	<input type="checkbox"/> Field Renovations Continued as needed <input type="checkbox"/> Soil Testing - Fall	IF Biological Renovations: (Goats/Sheep/Hogs) <input type="checkbox"/> Field Renovations Implemented with Temporary Systems: Fencing & Movable Water <input type="checkbox"/> Soil Testing - Fall <input type="checkbox"/> Permanent Pasture System Planned	IF Mechanical or Chemical Renovations: <input type="checkbox"/> Spring/Summer Renovations implemented <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Field Renovations Continued as needed <input type="checkbox"/> Soil Amendments Added Lime, at least 6 months before seeding <input type="checkbox"/> Seedbed Prepared (Field 1) <input type="checkbox"/> Develop Raised Beds (Field 2 & 3) <input type="checkbox"/> Soil Testing - Fall
3 or 4	<input type="checkbox"/> Field Renovations Continued as needed <input type="checkbox"/> Soil Testing - Fall <input type="checkbox"/> Soil Amendments Added Lime, at least 6 months before seeding <input type="checkbox"/> Seedbed Prepared	<input type="checkbox"/> Field Renovations Continued as needed <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Field Renovations Continued as needed <input type="checkbox"/> Soil Testing - Fall <input type="checkbox"/> Soil Amendments Added Lime, at least 6 months	<input type="checkbox"/> Purchase Seed <input type="checkbox"/> Spring Planting <input type="checkbox"/> Crop Management & Irrigation <input type="checkbox"/> Harvest <input type="checkbox"/> Growing Plan Evaluation <input type="checkbox"/> Soil Testing - Fall
4 or 5	<input type="checkbox"/> Spring Seeding <input type="checkbox"/> Minimal first year cutting: Plants should not be cut until height of ~10 inches is reached <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Field Renovations Continued as needed <input type="checkbox"/> Soil Amendments Lime, at least 6 months before seeding <input type="checkbox"/> Seedbed Prepared <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Spring Seeding <input type="checkbox"/> Light Grazing Yr 1 Plants should not be cut until height of ~10 inches is reached <input type="checkbox"/> Pasture lightly grazed with Temporary System: Fencing & Movable Water <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Purchase Seed <input type="checkbox"/> Spring Planting <input type="checkbox"/> Crop Management & Irrigation <input type="checkbox"/> Harvest <input type="checkbox"/> Produce Stand <input type="checkbox"/> Growing Plan Evaluation
5 or 6	<input type="checkbox"/> 3-4 Cuttings possible: First cutting ~May 15 <input type="checkbox"/> Sell Hay <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Spring Seeding <input type="checkbox"/> Light Grazing Yr 1: Plants should not be cut until height of ~10 inches is reached <input type="checkbox"/> Pasture lightly grazed with Temporary System: Fencing & Movable Water <input type="checkbox"/> Soil Testing - Fall	<input type="checkbox"/> Pasture established <input type="checkbox"/> Rotational grazing with temporary structure. <input type="checkbox"/> Permanent Systems Installed Fencing & Water: Well, Pipeline, Watering Facilities	<input type="checkbox"/> Purchase Seed <input type="checkbox"/> Spring Planting <input type="checkbox"/> Crop Management & Irrigation <input type="checkbox"/> Harvest <input type="checkbox"/> Produce Stand <input type="checkbox"/> Growing Plan Evaluation
6-9	<input type="checkbox"/> 3-4 Cuttings possible: First cutting ~May 15 <input type="checkbox"/> Sell Hay <input type="checkbox"/> Soil Testing - Fall (3 Year cycle)	<input type="checkbox"/> Pasture established <input type="checkbox"/> Rotational grazing with temporary structure. <input type="checkbox"/> Permanent Systems Installed: Fencing & Water: Well, Pipeline, Watering Facilities	<input type="checkbox"/> Rotational Grazing System better established	<input type="checkbox"/> Purchase Seed <input type="checkbox"/> Spring Planting <input type="checkbox"/> Crop Management & Irrigation <input type="checkbox"/> Harvest <input type="checkbox"/> Produce Stand <input type="checkbox"/> Growing Plan Evaluation <input type="checkbox"/> Soil Testing - Fall (3 Year cycle)
9+	<input type="checkbox"/> Successful Hay Operation	<input type="checkbox"/> Rotational Grazing System better established	<input type="checkbox"/> Fully Operational Rotational Grazing System <input type="checkbox"/> Soil Testing - Fall (3 Year cycle)	<input type="checkbox"/> Successful Cropland
10+	<input type="checkbox"/> Successful Hay Operation	<input type="checkbox"/> Fully Operational Rotational Grazing System <input type="checkbox"/> Soil Testing - Fall (3 Year cycle)	<input type="checkbox"/> Fully Operational Rotational Grazing System	<input type="checkbox"/> Successful Cropland

Funding Sources?

- **Your Town**
- **Timber Harvest or similar activities**
- **Land leasing**
- **Private Foundations**
- **Financial support through USDA NRCS**

Town Funding

- * Establish a Vision, Seek Partnerships
- * Expect a Multi-Year Process - it adds up!

Avenues & Recommendations:

- Town Council = supportive purse strings
- Budget Workshops = site specific plan and budget, identify past requests and successes, contingency funds
- Budget Line Item = Technical / Consulting
- Capital Improvement Program (CIP) funds carry forward
- Public Works Assistance – storage, trailhead construction, mowing, snow plowing

Grants • Contributions • Endowments

- **DEM Small Trail Grants – Fed Gas Tax – Materials, Equipment, Education, Maps?**
- **DEM Large Trail Grants – Fed Gas Tax**
- **RI Greenways**
- **Narragansett Bay Wheelmen**
- **HLT Endowment Rhode Island Foundation**
- **Earmarked Contributions to Town CC**
- **Be creative!**

Additional Stewardship Funding

- **Agricultural Lease**
- **Timber Harvest**
- **USDA NRCS financial support programs –**
does require private / non-governmental entity to apply:
examples Friends Group, Lessee of land
- **Private Foundations**

Questions?



Thank You!

Contact SRICD

401-500-0422

SRICD.info@gmail.com