



Connecticut Recreational Trails Program Grant Information and Application

(For any State funds that may become available in 2023-24)

Deadline for Submission is March 11, 2024

Print or type unless otherwise noted.

Part I: General Information

Project Title:

Estimated Total Project Cost: \$ (include labor)

Total Amount Requested: \$ (up to 80% of total project cost)

Project Proposal Type (check all appropriate boxes):

<input type="checkbox"/> Planning/Design	<input type="checkbox"/> Construction	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Acquisition
<input type="checkbox"/> Equipment	<input type="checkbox"/> Amenities	<input type="checkbox"/> Publications	<input checked="" type="checkbox"/> Outreach

Part II: Applicant Information

1. Applicant Information:

Name:

Title:

Mailing Address:

City/Town:

State: **CT**

Zip Code: **06455**

Business Phone:

ext.

Fax: **860-349-7115**

Email:

2. Chief Executive Officer:

Name:

Title:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

Fax:

Email:

Part II: Applicant Information (continued)

3. Grant Administrator:

Name:	Title:	
Address:		
City/Town:	State:	Zip Code:
Business Phone:	ext.	Fax:
Email:		

4. Organization or Municipality's Tax ID (FEIN) Number:

5. Legal name of your Organization (<https://www.concord-sots.ct.gov/CONCORD/>) or Municipality (<https://portal.ct.gov/>):

6. State Legislative District (<https://cga.ct.gov/>):

7. Property owner information, if different than applicant:

Name:	Title:	
Mailing Address:		
City/Town:	State:	Zip Code:
Business Phone:	ext.	Fax:
Email:		

Note: If the applicant is not the property owner, permission for public recreational access must be documented. Include such documentation as **Attachment A**.

Part III: Project Information

1. **Project Description - Attachment B (See Application Guidelines for information that must be included):**

- Reference Maps included in **Attachment C** as appropriate.
- If you are proposing an Educational Project, Project Description should provide project overview, with focus on guiding questions of the "Educational Project Supplemental Application" (DEEP-TRAILS-APP-001A) as **Attachment H**.

[See Attachments B and C](#)

Part III: Project Information (continued)**2. Project Maps. – Attachment C (See Application Guidelines for information that must be included)**[See Attachment C](#)**3. Grant Selection Criteria.** Per the Application Guidelines check the Yes or No box as applicable and provide details as specified.**Yes No**

This project serves an CT DECD listed Distressed Municipality.

This project connects to publicly available trail(s) on state, municipal or land trust owned land. (Please note in Project Description if property has been acquired through OSWA).
Trail connects with jogging/walking path in Middlefield Peckham Park

This project is part of a CT Greenways Council designated Greenway.

If Yes, provide the name of the Greenway:

This project will connect schools, downtown, public spaces for a community within urban or rural areas (as defined by CTDOT), or tribal land, that have limited access to trails and outdoor recreation opportunities within a 10-minute (1/2 mile) walk in urban areas, and 10-mile drive in rural areas. **Trail will connect Town of Middlefield Peckham Park with Main Street - Town of Durham. Multiple other hiking trails (blue blazed) in Middlefield**

This project is included in a local and/or regional plan or addresses a goal of the Statewide Comprehensive Outdoor Recreation Plan (SCORP). Copies of relevant excerpts will be required if your application is selected. Please do not send them in advance.
Middlefield POCD includes map of "Overall Path Connections Plan" showing intent to connect with Durham.

This project provides new opportunities where none previously existed, where input from the underserved community was part of the planning process and indications are strong that they will benefit from the resource. **Town wide survey in summer 2023 Indicated residents opinion that town should pursue Peckham Trolley Trail extension by 2.3:1 margin**

This organization has had projects funded or has a current active grant through DEEP's Federal or State Recreational Trails Program.

If Yes, provide and title, date, and status of these grants:

This project is the Next Phase of a project previously **completed** (no outstanding grant balance) and funded by DEEP's Federal or State Recreational Trails Program.

This project is receiving funding from other State or Federal agencies.

If Yes, provide source of funding:

This project develops or incorporates innovative technology or approaches that can be applied to other properties or resources. **Trail may utilize boardwalks technology minimizing ground intrusion into wetlands**

Part III: Project Information (continued)

4. Site Suitability:

Yes No

- The project is located in a Federal Emergency Management Agency (FEMA) floodzone.
FEMA map defines a small part of the proposed pathway as "Regulatory Floodway" and an additional area "without Base Flood Elevation" Discussion with FEMA will be required.
- The project is within an Aquifer Protection Area.
- The project lies within an area identified by the CT DEEP Natural Diversity Data Base as possibly containing endangered species. [Coginchaug River Basin](#)
- The project may impact significant historical or archaeological sites.
- The project is within the coastal area.
- Are there reserved rights/restrictions or environmental intrusions (power lines, dumps, factories, roads, etc.) on or in close proximity to the trail?
Power lines cross notional Phase 2 Pathway. Discussion with Eversource indicates their willingness to discuss license to route beneath them. Miller Road and Rte 147 pedestrian crossing will be required.
If Yes, please give details:
- The property through which the trail will pass is suspected of containing hazardous and/or contaminated materials. What has been done to screen for these materials?
If Yes, please give details:

Part III: Project Information (continued)

5. Site Accessibility and User Group Information:

a) Will your trail serve any elderly housing projects, housing authority (public housing), underserved communities, affordable housing developments, or low or very low-income areas or neighborhoods?

Yes No

Please describe the methods or means by which these user groups will access the site.

Notional pathway begins across the street from Bittersweet Ridge (55 and older housing) and would be accessible to SugarLoaf Terrace (Housing Authority) residents via town's Peckham Park

b) Will this trail be multi-use or single-use? To be considered multi-use the trail must allow two (2) or more of the following four user group categories: foot-travel (hike, ski, roller blade, etc.), bicycle/mountain bike, equestrian, and motorized.

Yes No Notional plan is for multi-use, ADA accessible pathway into and along Coginchaug River Basin natural environment
Multi-use

c) List the user group or groups that would be utilizing this trail? Provide some indication of use intensity expected (i.e. user/week).

Besides traditional fishermen and birders, expanded trail will offer recreational use by hikers, joggers, parents with strollers, ADA capable manual and motorized wheel chairs, regular and recumbent bicyclists, including kids on bikes to attend baseball or soccer games at the park.

d) To what degree will this project provide accessibility to people who have disabilities?

Boardwalk trail fabrication over wetlands/ flood zone areas would offer accessibility to wonderful landscape, currently unavailable to disabled individuals.

6. Public Participation:

a) Please describe how public participation at the local level was or will be included in planning this project.

A Summer 2023 town wide survey (nearly 10% population response) indicated over 2.3:1 they are in concert with Trolley Trail extension vs those who disagreed. Further Public Hearings will be conducted during the planning phase to verify community agreement and support.

7. Letters of Support: **Attachment D** Letters demonstrating support for your project are welcomed digitally or hard copy. See Attachment D

Part III: Project Information (continued)

8. **Scope of work:** You will be granted 3 years to complete your project. Provide your “Project Tasks, Subtask identification and deliverables, and Timeline,” as **Attachment E** in a table format as shown below.

*Per CGS 23-103(c) *Trail Publications referencing specific bikeways, pedestrian walkways, greenways, or multi-use trails.*

Project Tasks and Anticipated Completion Timeline			
Tasks	Project Task Types	Project Subtasks	Timeline
Task A	Planning	See attached	
Task B	Design		
Task C	Land Acquisition		
Task D	Construction		
Task E	Maintenance		
Task F	Trail Publications*		

Part III: Project Information (continued)

9. **Project Cost Estimates:** Provide an itemized project cost breakdown as **Attachment F**. Describe the means by which said cost was derived. List any engineers, appraisers, contractors or manufacturers that were consulted. Use the following table format shown below:

Name of Applicant	See attached
Project Cost Estimates	
Item (should correspond to your scope of work and may have more detail)	Cost
Task A –	
Task B –	
Task C –	
Task D –	
Task E –	
Task F –	
TOTAL Project Costs	\$
Match ($\geq 20\%$ of total project costs.)	\$
Grant Amount ($\leq 80\%$ of total project costs)	\$

Part IV: Supporting Documents

Please check the attachments submitted as verification that *all* applicable attachments have been submitted with this application form. When submitting any supporting documents, please label the documents as indicated in this part (e.g. Attachment A, etc.) and be sure to include the applicant's name.

- Attachment A:** If the applicant is not the property owner, provide documentation of your permission for public recreational access. If the property was acquired through OSWA or has other Conservation Easements provide easement language.
- Attachment B:** Project Description as described in Part III, item 1 of this application.
- Attachment C:** Project location map(s) - Provide map(s) and detailed site plan as described in Part III, item 1 of this application.
- Attachment D:** Letters of Support - provide project tasks as a described in Part III, item 7 of this application.
- Attachment E:** Scope of Work - provide project tasks as a described in Part III, item 8 of this application.
- Attachment F:** Project Cost Estimates - provide budget information as described in Part III, item 9 of this application.
- Attachment G:** Provide Maintenance Plan as described in Part III, item 10 of this application.
- Attachment H:** "Educational Project Application Supplement" (use form provided).

Part V: Applicant Certification

The applicant *and* the individual(s) responsible for actually preparing the applicant must sign this part.

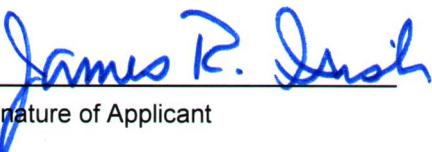
An application will be considered incomplete unless all required signatures are provided.

[If the applicant is the preparer, please mark N/A in the spaces provided for the preparer.]

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

I certify that this application is on complete and accurate forms as prescribed by the commissioner without alteration of the text."



Signature of Applicant

James R. Irish

Name of Applicant (print or type)

N/A

Signature of Preparer (if different than above)

N/A

Name of Preparer (print or type)

March 8, 2024

Date

Selectman - Middlefield

Title (if applicable)

N/A

Date

N/A

Title (if applicable)

Submission and Deadline: Proposals must be received by **March 11, 2024**.

Email is preferred, DEEP.CTTrails@ct.gov CC: kimberly.bradley@ct.gov

OR

Mail reports **on a CD** or other electronic storage device as appropriate to:

Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Attachment A: Easement Discussions

**Jon W. Brayshaw
140 West Street
Middlefield, Connecticut 06455**

March 6, 2024

Dear Connecticut Recreational Trails Program Facilitators,

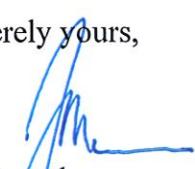
As a property owner, I'm writing to express my wholehearted support for the multiuse trail linking Peckham Park in Middlefield to the town of Durham. I am a firm believer that trails such as this boost community connectivity, fitness, and enjoyment of the outdoors. I spent much of my young life in Middlefield. Although I've been living out of state for the last few decades, this town holds a special place in my heart, and I am passionate about leveraging my newly acquired Middlefield property and all it has to offer to create a legacy of a healthy and thriving community.

About three years ago, I acquired roughly 100 acres of farmland which now features prominently in the placement for the proposed multiuse trail. I am currently in the design phases for a working farm there that will eventually welcome the public to visit its farm store, show barn, and market garden, as well as sheep, chickens, and acres of grain fields. The timing of the trail project is ideal because it gives me the opportunity to plan the placement of my fields and paddocks, along with requisite fencing, with the trail in mind. The presence of the trail may help facilitate engagement of residents and visitors with all we will eventually have to offer. The raised trolley bed skirts along the western edge of my property and demarcates the boundary between my land and the wetland areas of the Coginchaug River Basin. I agree that this is an ideal location for a multiuse trail.

Since the widening of Route 147 to the south of my property has altered the landscape since the trolley days, the trail may need to proceed east toward Durham along the southern edge of my property as well. This grant for a study will allow us all a clearer picture of how best to place that portion. I am willing to grant an easement for access to my property for the trail's construction and use. I hope that you adopt this recreational trail grant proposal and I look forward to us working together to ensure the best outcome for our farm and for the Middlefield community.

Sincerely yours,

Jon Brayshaw
Owner
890 Main Street
Middlefield, CT 06455





The Lyman Farm, Inc. • PO Box 453 • 7 Lyman Road • Middlefield, CT 06455 • 860.349.1793
www.lymanorchards.com

March 6, 2024

Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: Town of Middlefield Recreational Trails Grant Application

Dear Ms. Bradley,

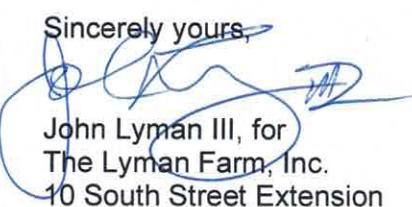
The Lyman Farm supports the town of Middlefield's application for Planning and Design funding to evaluate options and costs for adaptation of the old (1880's Electric Railway Company) Trolley Trail to a multiuser (walk/jog/bike) trail. Current pathway thinking would go from Middlefield's Peckham Park to the southeastern town boundary with Durham in Phase 1 and connecting with Durham's Main Street bicycle paths in Phase 2.

The notional trail pathway, as currently defined, would cut across a portion of Lyman Farm land on the north side of Miller Road adjacent to the Coginchaug River. We have discussed this feasibility with Middlefield officials, and we are willing to discuss a possible easement across this portion of our property should the project move forward.

Overall, the proposed trail improvements/re-creation, will offer the towns and other CT residents an opportunity to enjoy the Coginchaug River basin through an area currently unavailable due to floodplain conditions. Beyond pedestrian (including ADA) and bicycle access, the trail would offer birding and fishing access via this recreational opportunity expansion. It will provide a novel community connection for pedestrian and bicycle access between the two communities.

We ask that you adopt this Recreational Trail grant proposal, as it would enable the serious evaluation of the potential to bring back this pathway, creating a wonderful expansion of outdoor recreation and community connection for Middlefield and Durham.

Sincerely yours,


John Lyman III, for
The Lyman Farm, Inc.
10 South Street Extension
Middlefield, CT 06455

The Apple Barrel farm market
Bakery, Deli, Produce & Grocery
860.349.6000

Pick Your Own Orchards
Pick Fresh Fruit & Agricultural Mazes
860.349.6015

Corporate Sales
Outings, Gift Baskets, Pies & more
860.349.6029

Lyman Orchards Golf Club
The Jones Course & The Player Course
860.349.6031

The Golf Center
Apple Nine Course, Practice & Instruction
860.398.6480

E-mail Exchange with Sara Kartiganer -
Property owner at trail pathway north and adjacent to Miller Road - Middlefield
(2 notes from Sara)

From: Darin Overton <darinoverton@gmail.com>
Sent: Thursday, March 7, 2024 5:08 PM
To: Sara Kartiganer
Cc: Jim Irish
Subject: Re: [External] Middlefield/Durham Path

That's great Sara. I thought you might like a new path to walk on, especially one without any car traffic on it. I could use your help with a support letter to include in our grant application. Would you mind editing the attached draft letter however you see fit and signing a copy by tomorrow. The grant application is due tomorrow and we are attaching all the support letters we have received from property owners and other groups. If you have any questions, feel free to contact me. cell 860-543-5735.

Darin

On Thu, Feb 29, 2024 at 3:36 PM Sara Kartiganer <sarakartiganer@yahoo.com> wrote:

Darin,

I was so pleased and excited to hear about this proposal for a recreational path connecting Middlefield and Durham! It will add so much for both communities! More and more people are active today, and this will bring people together sharing the benefits of being outside and being physically active!! My hope is this goes through without any questions or difficulties. Thanks, Sara Kartiganer (owner of 1 Pond Meadow Place. Middlefield)

[Sent from Yahoo Mail for iPhone](#)

On Wednesday, February 28, 2024, 8:00 PM, Darin Overton
darinoverton@gmail.com wrote:

That's fantastic. I'm so happy you like the idea and appreciate your support. Please send me a letter of support so we can include it with the grant application. I sent a draft letter that you can edit. Thanks so much.

Darin

On Wed, Feb 28, 2024 at 5:07 PM Sara Kartiganer
sarakartiganer@yahoo.com wrote:

Darin , you have my complete support on this. What an awesome addition to our already beautiful community!! Please keep me informed with this process/progress. Many thanks, Sara

[Sent from Yahoo Mail for iPhone](#)

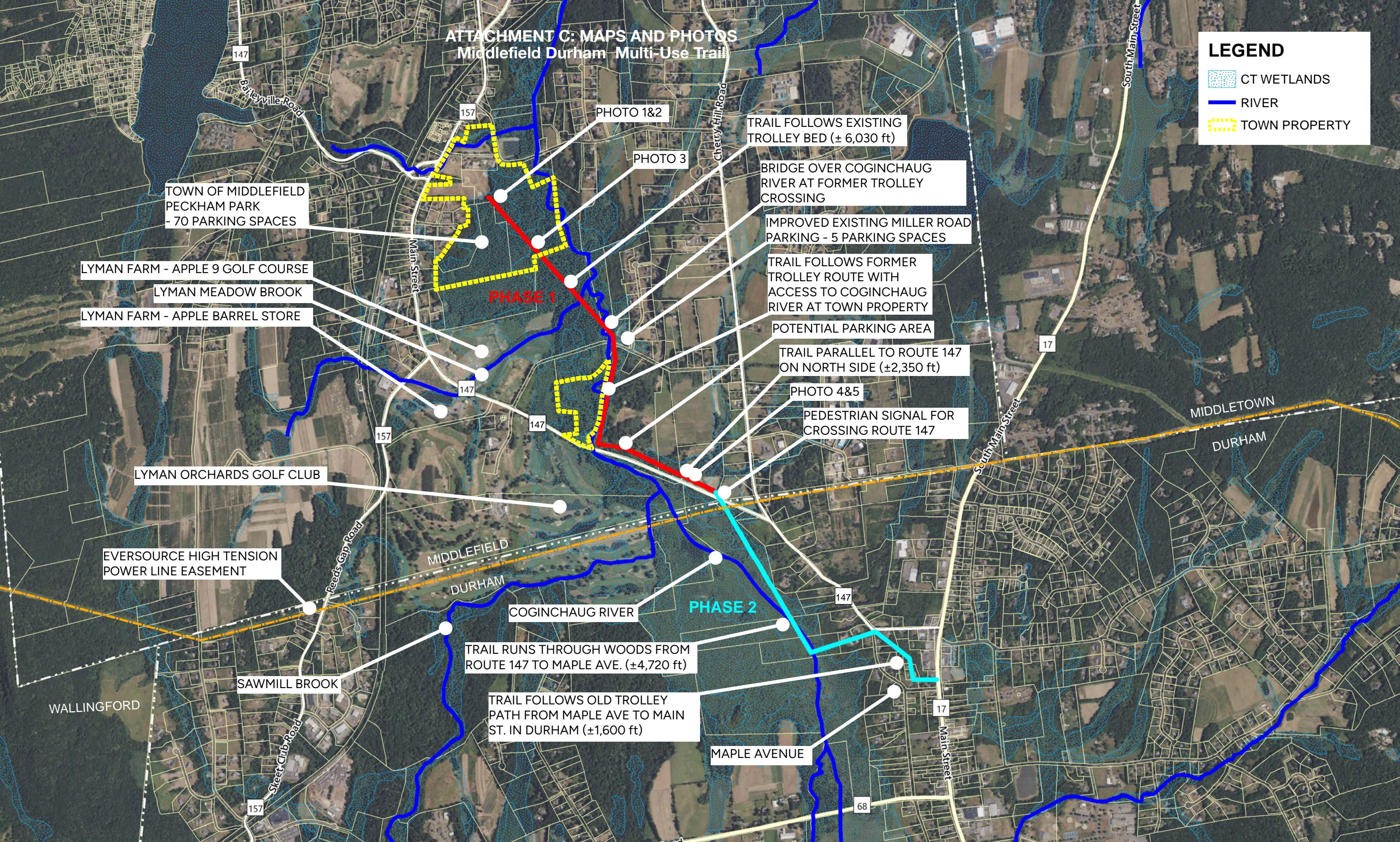
Attachment B: Project Description
Middlefield / Durham Community Multi-use Trail

- The overall objective is to create a new multi-use trail from Middlefield Peckham Park to the SE Middlefield/Durham town line in Phase 1. The plan is to extend the trail to Durham's Main street in Phase 2.
- The notional pathway would utilize much of the old 1880-1910 Meriden-Middletown-Guilford Electric Railway Trolley Line path. Approximately 1/2 mile of this trolley trail currently is used by hikers and joggers starting at the south end of Middlefield's Peckham Park.
- The pathway crosses and follows the Coginchaug River basin to create a new access to river frontage, wildlife habitat and this diverse natural landscape for hikers, joggers, parents with strollers, ADA handicapped residents, birders, and bicyclists (including families with children).
- Current access to these wonderful resources are limited to occasional hunters and very few fishermen. This project will open up access to non-motorized pedestrians and cyclists, including ADA handicapped residents from our communities and beyond (ample parking available at Middlefield Peckham Park)
- The Phase 1 Trail, ~ crosses Town of Middlefield land, plus property owned by John Lyman III, Sara Kartiganer-Powers, and Jon Brayshaw III. Discussion with each of the private property land owners indicates willingness to negotiate easements for the trail pathway on their property.
- Definition of options for the Phase II trail pathway in/into Durham will also be undertaken in the planning and design period.
- Planning and design will be subcontracted with SLR Consulting,
- Geotechnical surveys will be done to analyze soil conditions and develop optimal construction methods. Routing finalization will include consideration of minimal disturbance to ground and flora.
- Notional construction would include paved sections where trail width permits, elevated and fenced boardwalks crossing wetlands and floodplains, and short bridges over Lyman Brook and the Coginchaug River.
- Existing parking at Peckham Park can accommodate > 50 vehicles. A small parking area is anticipated on Brayshaw property at the intersection of the Coginchaug river with state route 147. Benches, and river overlooks will be incorporated into the trail design as terrain makes viable and interesting. Public restrooms are available at Peckham Park already.
- Local permits from Inland Wetlands and possibly Planning and Zoning will be sought. Eversource has verbally indicated willingness to discuss licensing for passing beneath their power lines. If State and Federal permits are required, discussion and consensus will be sought with appropriate agencies (CT DEEP, FEMA, CT DOT).
- A pedestrian crosswalk, similar to that on the Farmington Trail crossing West Main Street (Rte 68) in Cheshire, would likely be required, crossing state route 147 to extend the trail toward Durham in Phase 2.
- Significant public outreach will be included in the early trail planning phases. Already in the summer of 2023, Middlefield conducted a town-wide survey with nearly 10% voter response. Extending the Trolley trail was supported as a town priority 2.3:1 over those who disagreed with extension. Multiple public hearings - advertised in local newspapers and social media, plus project description in the quarterly Town Newsletter will be utilized to obtain resident opinion and feedback on planning and design considerations as they are developed.

ATTACHMENT C: MAPS AND PHOTOS
Middlefield Durham Multi-Use Trail

LEGEND

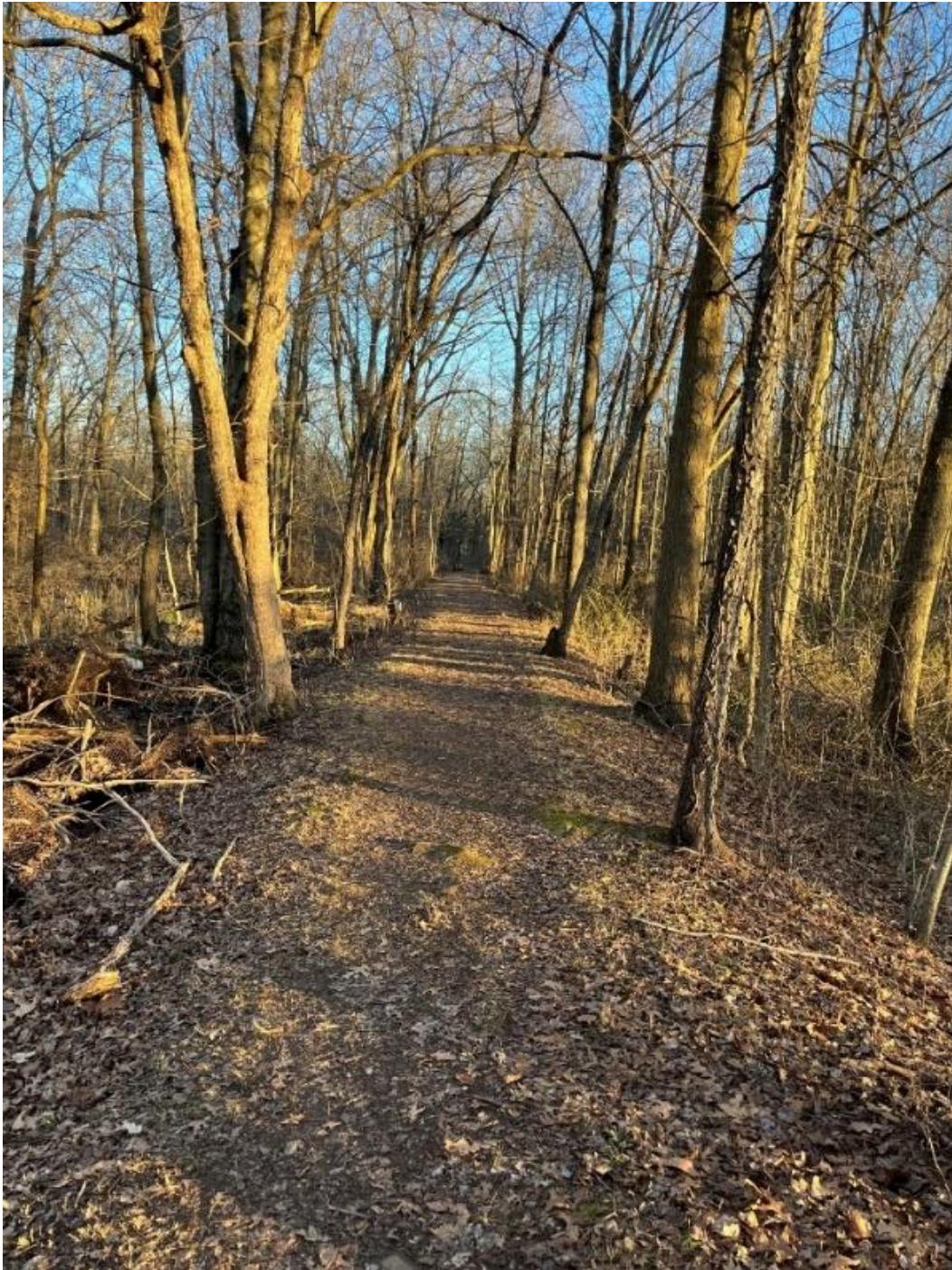
- CT WETLANDS
- RIVER
- TOWN PROPERTY





Site Photos

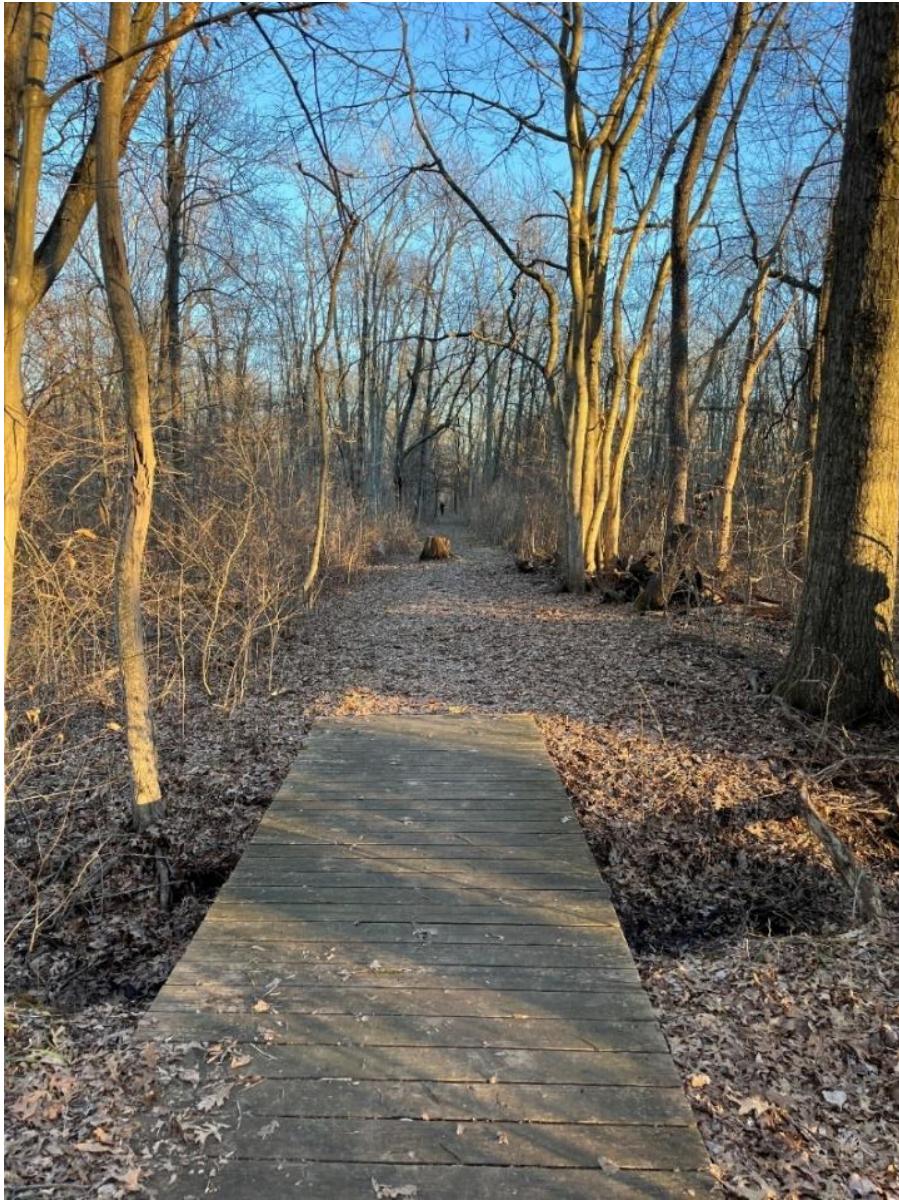
Photo 1: View of Trail as Entering from Peckham Park (Photo Date: March 3, 2024)



**Photo 1: Sign of Describing History of Area for Mink Farm
(Photo Date: March 4, 2024)**



**Photo 2: View of Trail Midway Between Peckham Park and Coginchaug River
(Photo Date: March 3, 2024)**



**Photo 3: View of North Side of Route 147 Looking West Along Potential Trail Route
(Photo Date: March 3, 2024)**



**Photo 5: View of North Side of Route 147 Looking East Along Potential Trail Route
(Photo Date: March 3, 2024)**



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Attachment D:

Letters of Support for Middlefield / Durham Community Multi-use Trail

<u>Name</u>	<u>Title</u>	<u>Organization</u>
Sam Gold	Executive Director	RIVERCOG
Brendan Rae	First Selectman	Town of Durham
Leslie Bulion	Chairman	Durham - Complete Streets Grp.
Joe Somalis	Chairman	Lower Ct. River Land Trust
Tom Sexton	NE Regional Director	Rails to Trails Conservancy
David Brown	Executive Director	Middlesex Land Trust
Jon Fenwick	Charter Org. Rep	Middlefield Cubs/Boy Scouts
Annyta Vizard	Executive Director	Birding For Pleasure-Durham/Middlefield
Robin Heath	Chairman	Middlefield Conservation Commission
Hannah Malcolm	Director	Middlefield Park and Recreation
Robert Veeley	Resident	Middlefield Lions Club
Melissa Kowal	Resident	Middlefield Lions Club
Peter and Vicki Berry		Residents - Middlefield
Bruce and Susan Strickland		Residents - Middlefield
Christy and Robert Dlugolenski		Residents - Middlefield
Kathleen Dunn		Resident - Middlefield



Lower Connecticut River Valley Council of Governments

145 Dennison Road Essex, CT 06426 | +1 860 581 8554 | www.rivercog.org

February 20, 2024

Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: Town of Middlefield Recreational Trails Grant Application

Dear Ms. Bradley:

The Lower Connecticut River Valley Council of Governments is happy to support the Town of Middlefield's application for funding for planning and design for adaptation of the old (1880's Electric Railway Company) Trolley Trail to a multiuser (walk/jog/bike) trail from the town's Peckham Park to the southeastern town boundary with Durham in Phase 1 and connecting with Durham's Main Street bicycle paths in Phase 2.

The proposed trail improvements/re-creation, will offer the region and other residents of the state an opportunity to enjoy the Coginchaug River basin through an area currently unavailable due to floodplain conditions. Beyond pedestrian (including ADA) and bicycle access, the trail would offer birding and fishing access via this recreational opportunity expansion. It will provide a novel community connection for pedestrian and bicycle access between the two communities of Middlefield and Durham.

We ask that you give your full consideration to the funding of this grant application as it would provide a unique recreational and educational resource for the region and the state.

Sincerely,

Samuel S. Gold, AICP
Executive Director

Office of the First Selectman



30 Town House Road, P.O. Box 428. Durham, CT 06422

February 28, 2024

Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: Town of Middlefield Recreational Trails Grant Application

Dear Ms. Bradley:

As First Selectman of Durham, I am excited by the potential opportunity for expanded community interactions with our neighbor - Middlefield - represented by the proposed Middlefield/Durham Community Multi-use Trail project. While the connection into Durham would be in Phase 2, awaiting explicit definition of the viable pathway into our town in the planning phase, I strongly support the initial pursuit of this trail through Middlefield.

Durham and Middlefield collaborate and enjoy sharing multiple resources, including Regional School District 13, DMIAAB - our local transfer station, the Durham/Middlefield Youth and Family Services program, various youth sports and recreational programs, etc. The creation of a multi-user trail connecting our towns through the Coginchaug River Greenway would be a wonderful addition to the communication and collaboration of our communities.

Hiking, jogging and bicycling through and between our towns will certainly expand interaction and healthful activities by our residents. The proposed trail will further promote outdoor recreation, providing access to natural spaces, and contribute to the enjoyment and conservation of local wildlife and ecosystems.

Therefore, I ask that you give your full consideration to the funding of this grant application, as it would provide a unique recreational and educational resource for the towns, region, and the state.

Sincerely,

Brendan Rea

Brendan Rea
First Selectman



Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

March 6, 2024

Re: Town of Middlefield Recreational Trails Grant Application

Dear Ms. Bradley,

Complete Streets DurhamCT is a strong advocate for developing a multiuse trail beginning with Middlefield's historic Trolley Trail and extending into Durham. The third phase of Complete Streets Durham's Conceptual Plan seeks to enhance connectivity between Durham and its neighboring towns beginning with Middletown via an on-road bike route aligning with an existing route on Millbrook Rd., and especially with our partner community, Middlefield, via the proposed Durham/Middlefield Community Multiuse Trail.

The communities of Durham and Middlefield are integrated through our regional school system, sports teams, recreational programs, and many other shared programs and resources. Residents spend considerable time driving between our towns to activities and events. Connecting our two towns via a multiuse recreational trail would provide an enormous quality of life enhancement for residents and visitors of all ages and abilities. Active transportation enhances personal health and air quality. Trail use increases the appreciation of our rich natural ecosystems and helps develop an awareness of local and regional conservation issues. Possibilities for environmental learning through Regional School District 13, clubs, and organizations are many.

Complete Streets DurhamCT asks that you give full consideration to funding the application for the Middlefield/Durham Community Multiuse Trail. Complete Streets DurhamCT is eager to partner with Middlefield and address this opportunity to connect our towns with Phase 2 of this sustainable, community-enhancing regional project.

Yours sincerely,


Leslie Bulion, Chair
Complete Streets DurhamCT

Lower Connecticut River Land Trust
145 Dennison Rd.
Essex, CT 06426



February 20, 2024

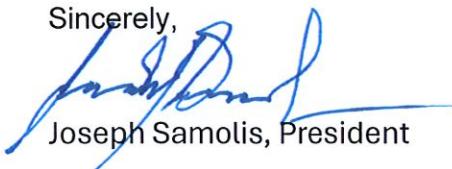
Dear Ms. Bradley:

The Lower Connecticut River Land Trust through a unanimous motion of the board on February 22, 2024 fully supports the Town of Middlefield's application for funding to plan and design for adaptation of the old (1880's Electric Railway Company) Trolley Trail to a multiuser (walk/jog/bike) trail. The trail would run from the town's Peckham Park to the southeastern town boundary with Durham in Phase 1 and connect with Durham's Main Street bicycle paths in Phase 2.

The proposed trail improvements and re-creation will offer the region and other CT residents an opportunity to enjoy the Coginchaug River basin through an area currently unavailable due to floodplain conditions. Beyond pedestrian (including ADA) and bicycle access, the trail would offer birding and fishing access via this recreational opportunity expansion. It will provide a novel community connection for pedestrian and bicycle access between the two communities of Middlefield and Durham.

We ask that you give your full consideration to the funding of this grant application as it would provide a unique recreational and educational resource for the region and the state.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joseph Samolis".

Joseph Samolis, President



Northeast Regional Office
744 South Street #2003
Philadelphia, PA 19147
267-332-4267

February 28, 2024

Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: Town of Middlefield Recreational Trails Grant Application

Dear Ms. Bradley:

The Rails to Trails Conservancy, the nation's largest trail organization, is happy to support the Town of Middlefield's application planning and design work to convert the old 1910's Meriden-Middletown-Guilford Electric Railway Company Trolley Trail to a multi-purpose recreation and active transportation facility.

It will provide a novel community connection for pedestrian and bicycle access between the two communities of Middlefield and Durham. Phase 1 of the project will extend from the town's Peckham Park to the south town boundary with Durham. Phase 2 would further connect our neighboring town of Durham into their Main Street with previously designed bicycle paths.

These proposed trail improvements will offer the region and other residents of the state an opportunity to enjoy the Coginchaug River basin through an area currently unavailable due to floodplain conditions. In addition to proving ADA accessibility and bicycle and pedestrian access, the trail extension would offer expanded birding and fishing access and green space for a peaceful respite.

We ask that you give your full consideration to the funding of this grant application as it would provide a unique recreational and educational resource for the region and the state.

Please reach out to me at tom@railstotrails.org or by my cell at 717-512-7245.

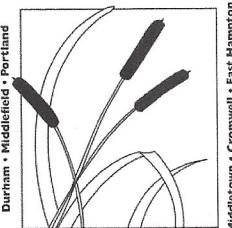
Sincerely,

A handwritten signature in black ink that reads 'Tom Sexton'.

Tom Sexton
Northeast Regional Director
RAILS TO TRAILS CONSERVANCY

MIDDLESEX LAND TRUST, INC.
27 WASHINGTON STREET
MIDDLETON, CT 06457
www.middlesexlandtrust.org

MIDDLESEX



March 6, 2024

Kimberly Bradley, Trails & Greenways Program Coordinator
Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: Town of Middlefield Recreational Trails Grant Application

Dear Ms. Bradley:

On behalf of the Board of Directors of the Middlesex Land Trust, I am writing to express our support for Middlefield's proposed multi-use trail planning and design development proposal. The current plan would continue the established section of the old 1880's Electric Railway Company Trolley Trail at Peckham park, extending the trail to the southeastern town boundary with Durham in Phase 1, and then in Phase 2 continue on to connect with Durham's Main Street bicycle paths. We strongly believe that the creation of such a trail will have numerous positive impacts, both for residents and the conservation efforts of Middlefield.

The proposed trail will promote outdoor recreation, provide access to natural spaces, and through exposure and education contribute to the enjoyment and conservation of local wildlife and ecosystems. The establishment of this walking trail aligns with the conservation goals and principles of the Land Trust and will serve our constituents in these towns. Proper planning and execution of the trail will not only enhance the appreciation of our natural environment but also contribute to the overall well-being of our neighboring community.

The Middlesex Land Trust supports this application and request's that you approve Middlefield's Recreational Trail Grant Application.

Sincerely,

A handwritten signature in blue ink, appearing to read "David M. Brown".

David M. Brown
Executive Director



Dear Connecticut Recreational Trails Program,

I am writing on behalf of BSA Middlefield Troop 33 and Pack 33 to express our strong support for the planning and design of the historical walking trail in our community. As a Scout leader, I have witnessed the positive impact outdoor activities and historical education has on our youth, and I believe that the development of this walking trail aligns perfectly with our mission.

The development of this walking trail serves as an invaluable resource for the local community and visitors, offering a unique opportunity to learn about and preserve the rich history of our community for generations to come. Furthermore, it provides an ideal setting for our Scouts to engage in educational nature hikes, conservation projects, and community service, aligning with the values of leadership, citizenship, and environmental stewardship that we aim to instill in our youth members.

The original trolley trail was started with the help of our chartered organization, the Middlefield Lions Club. It used to contain great informational displays as part of an Eagle Scout project about local trees and vegetation and were used during nature hikes with our Cub Scouts but have since fallen into disrepair and many have been lost. We would welcome this opportunity to re-build and even expand the nature hike displays, set up geocaches and help make this trail fun for the community.

The Middlefield Scouting units commend the planning committee and all involved parties for their vision and dedication to preserving our local heritage.

Please know that Troop 33 is eager and willing to support the development of the historical walking trail through volunteer service, and ongoing maintenance once the trail is established. We are excited about the potential this project holds and look forward to the opportunity to contribute to its success.

Thank you for your consideration and commitment to this important initiative.

Yours in Scouting,

A handwritten signature in black ink, appearing to read "Jonathan Fenwick".

Jonathan Fenwick
Charter Organization Representative, Middlefield Pack 33, Troop 33B & Troop 33G
Middlefield Lions Club member
203-376-7119 / www.scouts33.com / middlefieldtroop33@gmail.com

Dear Connecticut Recreational Trails Program,

I write to support the town of Middlefield's application for the funding to plan and evaluate design options and costs for the adaptation of the old Trolley Trail to a multi-use trail. This trail would begin at Middlefield's Peckham Park to the southeastern town boundary with Durham in Phase 1 and connect with Durham's Main Street bicycle paths in Phase 2.

The proposed trail will offer Connecticut residents an opportunity to utilize the Coginchaug River basin with recreational opportunities expanded through a floodplain. The trail will include pedestrian, including ADA, and bicycle access. Along with walking, jogging and biking, the trail will support birding, nature walks and catch & release fishing.

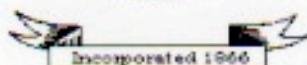
Birding for Pleasure in Durham and Middlefield, a local nature group, would have access to the wetland habitat which supports many bird species. *Birding for Pleasure*, run by volunteers, gives free bird walks in Durham and Middlefield with the goal to engage communities in conversation, restoration and enjoyment of nature focusing on birds, other wildlife and their habitats. Studies have found that children who lived in neighborhoods with more green space had a reduced risk of many psychiatric disorders later in life, including depression, mood disorders, schizophrenia, eating disorders and substance use disorder. For those with the lowest levels of green space exposure during childhood, the risk of developing mental illness was 55% higher than for those who grew up with abundant green space. (<https://www.apa.org/monitor/2020/04/nurtured-nature>)

I ask that you adopt this Recreational Trail grant proposal to evaluate the creation of an important outdoor recreation opportunity and community connection for Middlefield and Durham.

Sincerely,
Annya Vizard

Executive Director
Birding for Pleasure in Durham and Middlefield
[email: birdingforpleasure@yahoo.com](mailto:birdingforpleasure@yahoo.com)

TOWN of MIDDLEFIELD, CONNECTICUT



Conservation Commission

Dear Connecticut Recreational Trails Program,

As the chairman, of the Middlefield Conservation Commission, I am writing to express my full support for the proposed planning and design development to continue the established section of the old (1880's Electric Railway Company) Trolley Trail at Peckham park, to the southeastern town boundary with Durham in Phase 1 and connecting with Durham's Main Street bicycle paths in Phase 2. On Feb 20th, we spoke in length about this project at our Conservation Commission meeting. This project has unanimous support from our commission. We strongly believe that the creation of such a trail will have numerous positive impacts, both for our residents and the conservation efforts of Middlefield.

The proposed trail will promote outdoor recreation, providing access to natural spaces, and contributing to the enjoyment and conservation of local wildlife and ecosystems. I am confident that the establishment of this walking trail aligns with the conservation goals and principles of our commission. Proper planning and execution of the trail will not only enhance the appreciation of our natural environment but also contribute to the overall well-being of our community.

I firmly believe that the conservation commission's endorsement of this project will signal a strong commitment to preserving our natural resources while fostering a sense of stewardship among our residents.

I urge that you adopt this Recreational Trail grant proposal, as it would lend its support to this vital initiative and remain actively involved in guiding its development to ensure it adheres to the highest standards of conservation and environmental responsibility for Middlefield.

Thank you for your attention to this matter. I am available to discuss this project further and am eager to contribute to its success.

Sincerely,

Robin Heath
Middlefield Conservation Commission Chair

TOWN of MIDDLEFIELD, CONNECTICUT



Park and Recreation Department

Dear Connecticut Recreational Trails Program,

I am writing this letter in full support of the continuation and expansion of the walking trail, AKA the Trolley Trail through Middlefield. As the Park and Recreation Director, I have witnessed firsthand the positive impact of the trail, that begins at our town owned park, has had on our community.

The benefits of this passive recreational trail are numerous. Trails promote physical activity, provide opportunities for residents to connect with nature, and contribute to the overall well-being of our community members. The creation, conservation, and maintenance of these spaces aligns with our department's mission to improve the quality of life for our citizens through the creation and maintenance of high-quality programs, facilities and community special events, high quality programs, facilities and community special events.

Furthermore, the walking trail has been an essential part of our town's recreational offerings. It has become a popular destination for families, individuals, and nature enthusiasts. By expanding and maintaining this trail, we can continue to encourage a healthy and active lifestyle among our residents.

I urge you to consider the significant value that the walking trail brings to our town. Its continuation not only supports the physical and mental well-being of our community but also contributes to the preservation of our natural resources. I am confident that the upkeep and expansion of this trail will enhance the quality of life for all our residents.

Thank you for your attention to this matter. I am available to provide any additional information or support needed to ensure the successful continuation of the walking trail through our conserved spaces.

Sincerely,

Hannah Malcolm
Director of Middlefield Park and Recreation

Robert Veeley & Melissa Kowal
19 Mack Road, PO Box 127
Middlefield, CT 06455
rcv351@att.net

February 24, 2024

Dear Connecticut Recreational Trails Program,

As proud members of the Middlefield Lions Club, we are writing to express our enthusiastic support of the town of Middlefield's application for Planning and Design funding. This finding will allow Middlefield to evaluate options and costs for adaptation of the old (1880's Electric Railway Company) Trolley Trail to a multiuser (walk/jog/bike) trail from the town's Peckham Park to the southeastern town boundary with Durham in Phase 1 and connecting with Durham's Main Street bicycle paths in Phase 2. The Middlefield Lions Club is dedicated to serving our local area through various community projects, and we believe that the establishment of the historical trolley trail will benefit not only our residents but also visitors to the area.

During the early 2000's our club began to re-establish a historical walking trail where it begins at Peckham Park. We established a quarter mile trail with bridges. It has always been our hope to see its continuation beyond what our club has already created. We believe that the planning and design of this trail is an exciting opportunity to highlight the rich cultural heritage and historical significance of our community. It will provide an avenue for individuals and families to engage in outdoor recreational activities while also learning about the history of our town. The Middlefield Lions Club recognizes the potential of this trail to promote tourism, connect our community with its past, and strengthen local pride and identity.

We are committed to actively supporting this initiative through volunteer efforts, fundraising activities, and ongoing participation in the preservation and maintenance of the walking trail. We are confident that this project will contribute significantly to the betterment of Middlefield and its surrounding areas, and we are excited about the positive impact it will have on our community.

We extend our sincere appreciation to the planning committee and all involved parties for their dedication to this worthy endeavor. The Middlefield Lions Club stands ready to lend its support and resources to ensure the success of the historical walking trail.

Thank you for considering our input and for your continued efforts in enhancing our community through this innovative project.

Sincerely,



Robert Veeley and Melissa Kowal
Members, Middlefield Lions Club

Dear Connecticut Recreational Trails Program,

We enthusiastically support the proposed walking trail in the town of Middlefield. Access to the natural world and in particular, exercise in nature is a tremendous benefit to all. At its completion, the trail will provide benefits and opportunities for local and regional residents. In addition, the trail will allow safe, nonautomotive travel between two intertwined communities. We believe this to be a special benefit to middle school and high school students.

As our population ages, the ability to access natural spaces becomes increasingly important. Many of our neighbors have spent countless hours pursuing outdoor hobbies. The thought that they must give up the outdoors once their bodies are not capable of the vigorous hobbies of youth, is not only sad but also unhealthy. This trail would be a light for many older citizens as well as younger citizens who have physical limitations.

As this plan proceeds, I hope there will be opportunities for community involvement. Personally, we hope to be able to contribute time, resources and skills to this valuable local resource.

Thank you for your consideration and support of this project.

Peter and Vicki Berry
75 Jackson Hill Rd.
Middlefield, CT 06455

Dear Connecticut Recreational Trails Program Administrator
I am asking for your support for a grant to provide funding for
the expansion of the Peckham Park Trolley Trail in Middlefield.

My wife and I are frequent users of the trail, maintainers as well. We can't state enough how much wildlife, wild flowers, and nature is seen during our almost daily use. I do know school classes use the trail for outdoor education as well. There is also the history of the Trolley bed itself which never came to fruition because of the coming of the automobile and maybe lack of funding as well. There is also the history of the mink farm with cages at the beginning of the trail which has become habitat for a lot of creatures. My wife has spent over a year developing her own book of wildlife and wildflowers throughout the seasons.

We feel that the Trolley trail has a lot to offer and should be considered for funding for expansion and improvements.

Sincerely,

Bruce Strickland

Susan C Strickland

Bruce and Susan Strickland
62 Strickland Road
Middlefield, Ct 06455

Dear Connecticut Recreational Trails Program
Administrator

I am writing to you to support a grant to provide funding for development and expansion of the Peckham Park Trolley Trail in Middlefield.

As residents of Middlefield, we strongly support the expansion and development of the Trolley Trail. The Trail is wonderfully diverse in natural resources and experiences. We walk the trail daily and in all seasons. There is never a lack of experiences until you come to the end where the marshlands and water do prevent you from continuing.

We have watched river otters frolic, raccoons climb trees, pileated woodpeckers chase each other, red shoulder hawks build nests and raise their chicks, and turtles lay eggs along the trail. We have watched a pair of eagles fly over the trail and Great Blue Herons stop and feed in the water. In the winter, you can identify prints of deer, bobcats, raccoons, muskrats. There is always something to learn on the Trolley Trail.

With the extension and improvement of the trail, more of our regional community can experience this amazing natural resource. In addition, the development will provide conservation of the area, extension of the trail into the river area, access to recreational programming to enjoy the amazing wildflowers and plants that are plentiful, and areas to appreciate the birds and animals of the area.

We urge all to support a grant to provide this expansion and development of the Trolley Trail at Peckham Park in Middlefield.

Sincerely,

Christy & Robert Dlugolenski

Christy and Robert Dlugolenski
458 Cherry Hill Road
Middlefield, CT 06455

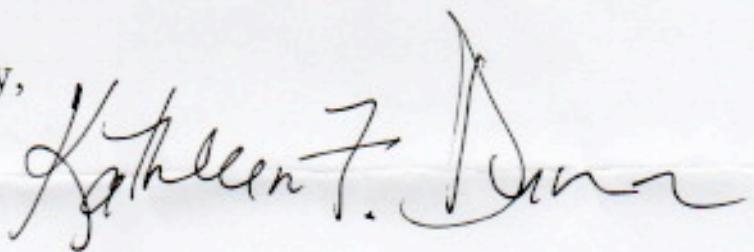
Dear Connecticut Recreational Trails Program
Administrator

As resident of Middlefield, I strongly support the expansion and development of the Trolley Trail. The Trail is wonderfully diverse in natural resources and experiences. I walk the trail daily and in all seasons. There is never a lack of experiences until you come to the end where the marshlands and water do prevent you from continuing.

With the extension and improvement of the trail, more of our regional community can experience this amazing natural resource. In addition, the development will provide conservation of the area, extension of the trail into the river area, access to recreational programming to enjoy the amazing wildflowers and plants that are plentiful, and areas to appreciate the birds and animals of the area.

We urge all to support a grant to provide this expansion and development of the Trolley Trail at Peckham Park in Middlefield.

Sincerely,

A handwritten signature in black ink, appearing to read "Kathleen F. Dunn".

Project Tasks and Anticipated Completion Timeline
Middlefield Trail, Middlefield, Connecticut
SLR Project No.: 11668.00007

Conceptual Design		Person(s) or Entity Performing Work			
Task		Town	Consultant	Direct Cost/ Vendor	Anticipated Completion Date assumes Mid May start - will be adjusted for contract start
Topographic Survey			X		July 2024
Land Records Research/ROW Mapping			X		July 2024
Utility Mapping	X	X		X	July 2024
Wetland Delineation/Mapping, and Soils Report			X		July 2024
Subsurface Investigations/Geotechnical Engineering			X	X	August 2024
Alignment drawings, profiles, cross sections, and details	X				Preliminary Design October 2024 Final Design March 2025
Landscape Architecture, plantings, amenities, and details			X		Preliminary Design October 2024 Final Design April 2025
Structural Engineering, walls, boardwalks			X		Preliminary Design October 2024 Final Design April 2025
Community and Property Owner Outreach	X	X			On-Going Throughout
CTDOT Meetings & Coord.; highway protection/access details	X	X			On-Going Throughout
Culvert Inspections, Drainage calculations	X	X			October 2024 (PD)/April 2025 (FD)
Design Report	X	X			September 2024 (PD)/April 2025 (FD)
Quantity & Cost Estimates	X	X			September 2024 (PD)/April 2025 (FD)
Right-of-Way taking and easement maps			X		Easements in-hand April 2025
Specifications, Project Manual	X	X			March 2025
Local Land Use	X	X			Permits in-hand January 2025
State & Federal Permits, SHPO & THPO Coordination		X	X	X	Permits in-hand July 2025
Stakeholder Coordination (COG, CTDOT, CTDEEP)	X	X			On-Going
Public Information Meeting	X	X			Fall 2024
Construction-Phase Consultation			X		Advertise for Construction Winter 2025

SCOPE OF DESIGN AND PERMITTING SERVICES

1.0 Base Mapping

- 1.1 Topographic Survey – Prepare a project base map depicting topographic features in accordance with Regulations of Connecticut State Agencies, Sections 20-300b-(1-20), "Minimum Standards of Accuracy, Content and Certification for Surveys and Maps." All mapping will be based on the preferred datum of the North American Datum of 1983 (NAD83) and the North American Vertical Datum of 1988 (NAVD88).
 - Coordinate the services of an aerial photogrammetrist subcontractor.
 - The photogrammetrist will conduct a flight of the project corridor.
 - Establish Global Positioning System (GPS)-derived ground control points for the horizontal and vertical positioning of the aerial survey.
 - The photogrammetrist will digitize aerial photogrammetry based on agreed limits centered on preferred trail routing only. The aerial survey will be produced at a scale of 1 inch = 20 feet with 1-foot-contour intervals.
 - Prepare base topographic mapping at an Accuracy Class of T-3.
 - Compile property line and roadway right-of-way information from geographic information systems (GIS).
 - Supplement aerial mapping with topographic survey conducted on the ground at an Accuracy Class of T-2 for critical areas, including Coginchaug River Crossing and the location of the Route 147 pedestrian signal crossing.
 - Provide horizontal control coordinate points and vertical control benchmarks throughout the project area on base mapping.
- 1.2 Contact utility providers with services in the vicinity to obtain available maps of the location of their respective utilities. Superimpose underground utilities on the base map based on best available information. Work under this task will be limited to planimetric mapping of utility main lines and will not include mapping of utility customer service connections. We anticipate the majority of this coordination will be with Eversource regarding the crossing of the high tension power line easement and construction of the trail adjacent to the distribution power poles along Route 147.
- 1.3 Field locate and map the boundaries of the inland wetlands and watercourses in the vicinity of the preferred route and incorporate the information onto the topographic survey. The boundaries will be identified by our registered soil scientists. Blue and pink flagging will be affixed to sturdy vegetation and each wetland flag will be surveyed using a handheld GPS unit with submeter accuracy. During the delineation, our scientists will undertake a preliminary assessment of the quality of the wetlands along the contemplated route. Wetland boundaries with associated flag numbers will be indicated on the project survey map. A soil report will be prepared to support the local land use applications to be completed under subsequent tasks.

2.0 Preliminary Design (30% Design)

- 2.1 Walk the proposed route with town staff to make decisions in the field regarding the general alignment of the trail. Consultant will utilize handheld GPS units to map the route and refine the alignment based on decisions made.
- 2.2 Perform geotechnical engineering services. This task will include the following:

- Review geologic maps of the project area along with available utility mapping to better understand the subsurface conditions along the proposed trail alignment. Visit the site, mark proposed exploration locations in the field, and contact Call Before You Dig for the requisite utility clearance.
- Perform 1 day of hand augers and Dynamic Cone Penetrometer probes along the proposed trail alignment. It is anticipated that up to 16 locations can be explored, or about 1 location every 250 feet, during the 1 day of fieldwork. The probes will extend to about 5 feet deep and will be backfilled with the auger cuttings upon completion. The explorations will provide a site-specific profile at each location of the relative density and strength of the subsurface materials to support a trail.
- Representative soil samples collected will be submitted to a certified material testing laboratory for gradation analyses. The results of the gradation analyses will assist in classifying the subsurface materials and evaluating the subsurface materials for frost susceptibility. We anticipate submitting up to five samples for geotechnical laboratory testing.
- Perform geotechnical engineering analyses and prepare a geotechnical engineering report for the project. The report will contain a summary of the subsurface conditions, identify the primary geotechnical issues related to the proposed multiuse trail, and provide geotechnical design and construction recommendations for the project.

2.3 Develop preliminary design plans for the project following the recommendations of the Routing Study and findings of the geotechnical investigation. This task will include the following:

- Title sheet
- Existing conditions
- Preliminary trail layout and baseline alignment
- Preliminary grading
- Preliminary drainage
- Preliminary Landscape Plan
- Preliminary Erosion and Sedimentation Control Plan
- Preliminary Signage and Pavement Marking Plan, where applicable
- Plans, cross sections, and elevations of special structures (e.g., boardwalks, retaining walls)
- Site amenities, including directional, safety, and wayfinding/interpretive signage, fencing, etc.
- Identify the need to protect or relocate public and private utilities within or immediately adjacent to the trail.
- Preliminary details of the site improvements
- Delineation of areas of regulatory impacts

2.4 Prepare preliminary designs for the surface treatment of intersections (signs, pavement markings, textured pavement). This task does not include the design of new signals or significant upgrades to existing signals.

2.5 Identify those properties, if any, that need partial acquisition, full acquisition, or easements (temporary or permanent) and prepare a schedule of owners.

2.6 Prepare a preliminary opinion of probable construction costs.

2.7 Submit copies of the preliminary design plans to the town for review and comment.

- 2.8 Provide electronic PDF copies of the plans to the affected utility providers for review and comment.
- 2.9 Make minor revisions to the preliminary design plans addressing selected comments from the town that will be required prior to submission to regulatory agencies.
- 2.10 Meet with town staff and other stakeholders during preliminary design. Four such meetings are budgeted.

3.0 Regulatory Coordination and Permitting

There are sensitive natural resources located within and/or adjacent to the proposed trail route, and the proposed activities will likely trigger regulatory permits. At this time, the extent of resource impact is not known but we anticipate that state and federal permits will be required. The criteria relative to state and federal permitting will be evaluated in the preliminary design stage of the project and is excluded at this time. Based on these assumptions, SLR will assist the town in its efforts to obtain only local land use approvals as part of this scope. In general, we will be responsible for preparing applications and attending regulatory site walks and meetings, as requested. We will assist in this effort by responding to technical issues that may be raised during application processes. It is anticipated that permit applications will be prepared and submitted at the end of the preliminary design stage.

Based on CT ECO mapping a portion of the trail will run through an area identified by the Connecticut Department of Energy & Environmental Protection (CTDEEP) where state-listed species of special concern may be present. In order to refine these results, we will resubmit only the Phase One trail alignment for a preliminary determination request to CTDEEP Natural Diversity Database (NDDB) Program to determine the potential presence of listed flora and fauna species.

Please note the completion of intensive listed flora and/or fauna species surveys is not included within this scope. If such are determined to be required, then this work would be negotiated under a separate contract agreement.

- 3.1 CTDEEP NDDB Review – Assist the town in preparing a new preliminary determination request for the proposed trail alignment Peckham Park and the Durham town line.
- 3.2 Submit an inquiry to the State's Historic Preservation Office and Tribal Historic Preservation Offices to determine the potential for the presence of sensitive cultural resources along the Phase One trail corridor. If the State Historic Preservation Office (SHPO) concludes a Phase IA Archaeological Survey is needed, a scope and fee will be coordinated separately.

Local Permitting

- 3.3 Assist the town in seeking local land use approvals by providing plans and supporting documents for inclusion in the applications, including the preparation of presentation graphics. At present, it is anticipated that only local inland wetland and site plan permits will be required. This task will also include the following:
 - Respond to questions raised by regulatory agencies specific to design issues.
 - Attend up to two meetings with the Inland Wetlands Commission and two meetings with the Planning and Zoning Commission. The preparation of legal notices, applications, and other fees are not included in this proposal.

Please note that if it is determined during design development that additional federal and/or state permits other than those noted above are required, then the preparation of such permits will be negotiated under a separate contract agreement.

4.0 Final Design Plans, Specifications, and Opinion of Cost (100% Design)

- 4.1 Resolve any outstanding comments received from the town from the preliminary design submission.
- 4.2 Meet with town staff as well as public and private utility providers to review the plans previously provided and address the project's impacts on the respective facilities and the proposed methods of resolving the impacts.
- 4.3 Prepare the Final Plans, including the following:
 - Title sheet
 - Location Plan/Sheet Index/General Notes
 - Existing Conditions and Removal Plan
 - Layout Plan, including appropriate dimensions
 - Grading Plan, including details and spot elevations in critical areas
 - Profile of the trail and cross sections at critical intervals showing the existing and proposed grades, limits of fill, limit of root barriers, and other pertinent information
 - Intersection Improvement Plan
 - Signage and Pavement Marking Plan
 - Structural Plan and Details
 - Landscape Plan
 - Storm Drainage Details
 - Miscellaneous Details
 - Erosion and Sedimentation Control Plan (Stormwater Pollution Plan is not included in this task)
 - Maintenance and Protection of Traffic Plan
 - Sequence of Construction Plan
- 4.4 Prepare technical specifications for the improvements. It is expected that the town will provide its standard front-end documents, including bidding requirements, insurance requirements, contract forms, and general and supplemental conditions for incorporation into the project manual. SLR will prepare the following:
 - Bid Proposal Form
 - Special Provisions
 - Supplemental Specifications
 - Technical Specifications
 - Addenda
- 4.5 Prepare a Semifinal Opinion of Probable Construction Costs.
- 4.6 At approximately 60% completion, submit the plans, estimate, and specifications to the town for review and comment.
- 4.7 Respond to 60% review town comments and make revisions to the plans and specifications.
- 4.8 At approximately 90% completion, submit the plans, estimate, and specifications to the town for review and comment.

4.9 Submit 100% contract documents to the town, including the following:

- Contract Drawings
- Project Manual
- Opinions of Probable Construction Costs

4.10 Provide the town with originals of contract documents (plans, specifications, and estimates) for bidding purposes.

5.0 Bidding and Construction-Phase Services

Under this phase of the contract, the consultant will assist the town in bidding the project and administering the construction contract. The services will include the following:

5.1 Assist the town in soliciting bids from responsible contractors by doing the following:

- Attending a prebid meeting with prospective contractors
- Responding to requests for information
- Preparing addenda, if required
- Reviewing the bids
- Reviewing and verifying the references of the apparent low bidder

5.2 Assist the town during construction by doing the following:

- Attending a preconstruction meeting
- Respond to requests for information from the contractor during construction.
- Review shop drawings and material submissions.
- Review and make recommendations to the town regarding requested change orders from the contractor.
- Review monthly payment requisitions from the contractor and make recommendations to the town for payment.

5.3 Review the progress of the construction by participating in biweekly progress meetings with the contractor and the town and preparing minutes of the meetings. For the purpose of this proposal, we have assumed that construction duration will be approximately 4 months.

5.4 Visit the site at other critical times during construction to observe the work for general consistency with the plans and specifications.

5.5 When construction is nearing completion, undertake a semifinal observation of the work and identify items of work that may be either incomplete or not in compliance with the plans and specifications and prepare a punch list of work that needs to be completed or remedied.

5.6 When the project is complete, make a final review of the work and issue a certificate of substantial completion.

5.7 Closeout the project by compiling the project submission documents, warranties, contractor's record drawings, owner's manuals, warranties, and other project documentation for submission to the town.

Attachment F: Project Cost Estimates

Initial Project Costs Estimates were prepared by SLR International Corporation (SLR). The table below is a summary of costs associated with the tasks outlined in Attachment E.

Town of Middlefield	
Project Cost Estimates	
<u>Item</u>	<u>Cost</u>
Task 1 Base Mapping	\$35,000
Task 2 Preliminary Design	\$40,000
Task 3 Local Regulatory Coordination and Permitting	\$15,000
Task 4 Final Design Plan, Specifications, and Opinion of Cost	\$70,000
Task 5 Bidding and Construction-Phase Services	\$50,000
Task 6 Expenses (including Community Outreach)	\$5,000
Total Project Costs (not including contingency)	\$215,000
Match (≥20% of total project costs.)	\$43,000
Grant Amount (≤ 80% of total project costs)	\$172,000

Attachment G: Trail Operations & Maintenance Plan

Middlefield / Durham Community Multi-use Trail

While this application is for funding to plan and finalize routing and construction approaches and conduct advanced survey, design, and permitting, the town has already contemplated the responsibilities associated with long-term maintenance of a paved and boardwalk greenway facility. At present, the town's Department of Public Works and Parks and Recreation Department share in the responsibilities for maintenance and repairs for town-owned parks and other facilities including the Peckham Park where the trail would begin. The town's crews understand that a good greenway maintenance program will extend the facility's service life and provide for enhanced public safety while minimizing and deferring long-term repair and replacement costs. For the greenway to be a major success, the user experience should be considered of paramount importance - and regular maintenance will demonstrate local pride and commitment to community. The town also recognizes that, given the more remote and heavily wooded nature of the former route of the Meriden-Middletown-Guilford Electric Railway Company Trolley Trail, additional considerations need to be factored in.

At this early juncture the town offers the following regarding maintenance:

The proposed Middlefield Multi-use Trail will be a bituminous concrete (asphalt) multi-use trail open from dawn to dusk like other town parks. Maintenance should begin with a thorough inventory of infrastructure assets including as-built mapping for culverts, utilities, signage, amenities, etc. Upon completion of the trail, Public Works and Parks and Recreation will share in the maintenance responsibilities based on personnel and equipment available to each department. Maintenance will be conducted by town staff except where outsourced to a contractor or vendor. Maintenance costs will be funded under the Town's general operations and management budget.

The Town will perform monthly inspections to observe the following:

- Dead trees or hanging limbs
- Pavement conditions including potholes, ruts, or other tripping hazards
- Graffiti or vandalism
- Accumulation of trash, debris, illegal dumping
- Removal of debris at drainage culverts
- Evidence of drainage or erosion issues or culvert failure/overtopping
- Encroachment of vegetation and, specifically, invasive plant species
- Evidence of wildlife encounters
- Evidence of unauthorized vehicles (i.e. ATV's or dirt bikes)
- State of repair for fences, barriers, and structures (i.e. highway and railroad protections, fences, boardwalk)
- Recurring areas of icing across greenway

Based on inspections, the town will perform the following tasks, with frequency to be determined and refined following trail completion and one year of maintenance/upkeep data:

- Mowing trail shoulders
- Collecting trash, debris, emptying trash receptacles (if applicable)
- Treating invasive species (following acquisition of relevant permits) - may require systematic herbicide management program tailored for target species; site contains Multiflora Rose, Phragmites, and Autumn Olive in limited areas at present (Implement spraying during active growing season)
- Cutting dead trees; removing hanging branches
- Cleaning culverts and plunge pools (check after major rainfall events)
- Stabilizing eroded areas and/or regrading runoff to prevent icing (may be annually)

Attachment G: Trail Operations & Maintenance Plan

Middlefield / Durham Community Multi-use Trail

- Patching asphalt, crack sealing (may be annually or as needed)
- Repair fences, barriers, and structures such as boardwalk (roadway and rail barrier breaches may require immediate attention)

The Town understands a documented long-term plan for trail management will be necessary to maximize the facility's service life. For the first several years, trail pavement maintenance, we anticipate, will consist primarily of crack sealing, with more advanced pavement treatments likely to be required at 15 and 20 years. More extensive repairs should be budgeted for well in advance.

Finally, the town will vet its initial maintenance program with other municipalities experienced in greenway maintenance (i.e. Middletown, Meriden, Wallingford).