

**COMMUNITY PRESERVATION COMMITTEE
TOWN OF NEEDHAM, MASSACHUSETTS**

**Minutes of Meeting
September 11, 2013**

PRESENT: Janet Bernardo – Chairman, Lita Young – Vice Chairman, Gary Crossen
Reg Foster, Mike Retzky, Sam Bass Warner

GUESTS: John Bulian, Vice Chairman, Board of Selectmen
Kate Fitzpatrick, Town Manager
Lisa Standley, Chairman, Conservation Commission
Patty Barry, Director of Conservation

ABSENT: Carol Boulris, Mark Gluesing, Paul Siegenthaler, Patricia Carey – Staff
Liaison

STAFF: Nicole DiCicco – Recording Secretary

Ms. Bernardo called the meeting to order at 7:35 PM at the Highland Room at Town Hall.

Chairman's Updates: Ms. Bernardo had recently visited the Massachusetts Community Preservation Coalition website and recommended that Committee find time to visit the site as well. She saw it to be beneficial for members to review the progress of current Massachusetts Community Preservation Committee community projects.

Review of New Proposals: Ms. Bernardo reminded the Committee that the question at this meeting was whether to review these two proposals for the November 2013 Special Town Meeting or to hold the two proposals and review them for the May 2014 Annual Town Meeting.

FY2014-1, Ridge Hill Boardwalk and Bridge Replacement – Conservation Commission Chairman Lisa Standley and Conservation Director Patty Barry presented an overview of the proposed project to the Committee including a history of the swamp trail and previous boardwalk along with current information and updated trail maps. *[See Attached: Supplemental Project Information Packet]* The original structure was built in the 1970's. This replacement would be a composite structure that is more environmentally "friendly" than the former wood bridge, and it will help prevent deterioration of the vegetation and wetlands. The Conservation Fund would pay for a portion of this project. Mr. Warner provided a statement *[See Attached: Trails Policy]* and noted that it was his belief that wider paths are desired by residents. Mr. Foster asked if there might be additional permitting or procurement delays, and Ms. Young asked why it was critical for this project to be reviewed for the November Special Town Meeting. Further delays are not expected, but the Conservation Commission is requesting that the project be reviewed for the November Special Town Meeting in order

to be able to do the construction in the late summer of 2014, which is the optimal time of year for construction in wetlands.

FY2014-2, Rail Trail Insurance – Board of Selectmen Vice Chairman John Bulian and Town Manager Kate Fitzpatrick presented an overview of the proposed project to the Committee including revisiting the previously CPC funded Rail Trail Study, completed in May 2013. *[See Attached: FY2012-2 Project Application Form and Bay Colony Rail Trail Conceptual Planning and Design Study]* This request is for funds to pay for a required 5 year insurance plan as part of the requirements for the lease of the rail right-of-way. The Town would pay the full fee for the insurance, and then a state program would reimburse the Town for 50% of the cost. If CPC funds were approved, the reimbursement would be returned to the CPC. The warrant article for the lease was originally scheduled for the May 2013 Annual Town Meeting, but not enough information was available at the time, so it will be brought back to the November Special Town Meeting. Ms. Fitzpatrick explained that she has negotiated the lease with the MBTA. Mr. Bulian invited all CPC members to attend the Board of Selectmen's Public Hearing on the subject of the Rail Trail lease and insurance on Tuesday, September 17, 2013.

Ms. Bernardo thanked the proponents and asked the Committee if there were any additional questions or comments. Hearing none, she asked the Committee to vote on whether to review either proposal for the November 2013 Special Town Meeting or hold either proposal for the May 2014 Annual Town Meeting.

Mr. Retzky made a motion to review the Conservation Commission's request for the Ridge Hill Boardwalk and Bridge Replacement for the November 2013 Special Town Meeting warrant. The motion was seconded by Mr. Foster and was approved 4 – 1, with 1 abstaining.

Mr. Foster made a motion to review the Board of Selectmen/ Town Manager's request for the Rail Trail Insurance for the November 2013 Special Town Meeting warrant. The motion was seconded by Mr. Warner and was approved unanimously.

Community Preservation Plan Update: No updates presented.

Upcoming Meeting Schedule:

- Public Hearing: Wednesday, October 9th
- *Tentative Meeting: Wednesday, October 16th, 7:30PM*

Adjournment: Mr. Crossen made a motion to adjourn the meeting at 9:00 PM. Mr. Retzky seconded the motion and the meeting was adjourned at 9:00 PM.

Respectfully submitted,

Nicole DiCicco
Recording Secretary



TOWN OF NEEDHAM
CONSERVATION DEPARTMENT
Public Services Administration Building
500 Dedham Avenue
Needham, MA 02492

COMMUNITY PRESERVATION COMMITTEE

PUBLIC MEETING SEPTEMBER 11, 2013 7:30 PM – TOWN HALL HIGHLAND ROOM

Ridge Hill Reservation Swamp Trail Boardwalk & Charles River Trail Bridge Replacement Project

SUPPLEMENTAL INFORMATION

Ridge Hill Reservation Site Location Map

Final Draft Swamp Trail Boardwalk Replacement Project Plans

Final Draft Charles River Trail Bridge Replacement Project Plans

Soil Boring Negative Determination of Applicability

Soil Probe & Boring Information

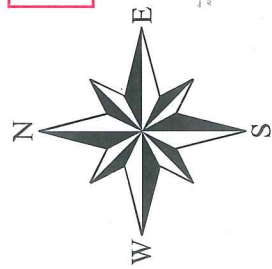
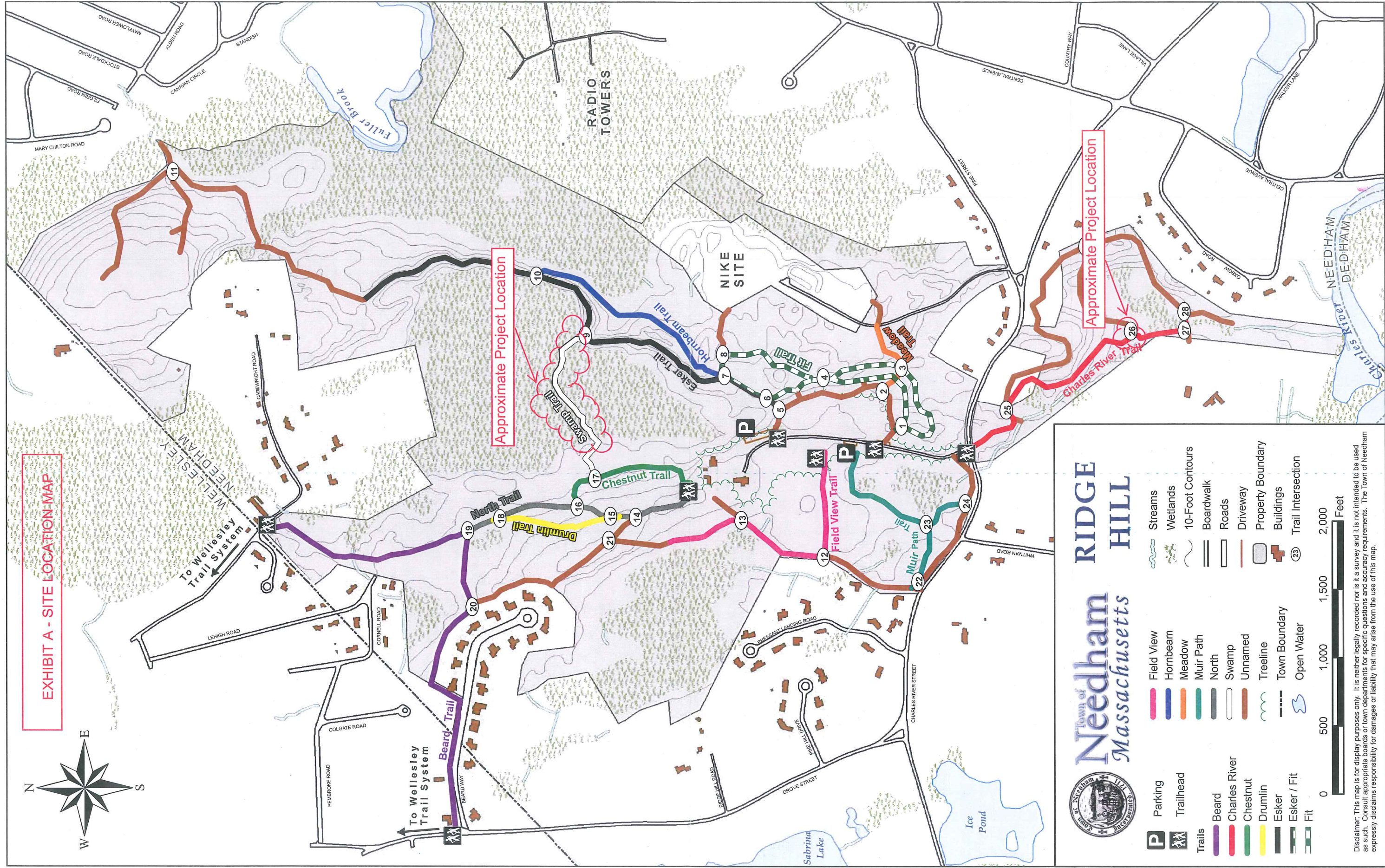


EXHIBIT A - SITE LOCATION MAP



CHESTNUT
TRAIL

ELEVATED
BOARDWALK
(4' CLEAR WIDTH)

SHEET 2

SHEET 2

LOW
BOARDWALK
BRIDGE
(3' CLEAR WIDTH)

LOW
BOARDWALK
BRIDGE
(3' CLEAR WIDTH)

SHEET 3

LOW
BOARDWALK
BRIDGE
(3' CLEAR WIDTH)

SHEET 3

ESKER
TRAIL

LEGEND:

- PROPOSED BOARDWALK
- PROPOSED HELICAL PILE (VERTICAL)
- PROPOSED HELICAL PILE (INCLINED)
- PROPERTY LINE
- WITH
- EXISTING TRAIL
- EXISTING WOODEN ELEVATED BOARDWALK
- EXISTING SPOT ELEVATION
- APPROXIMATE BOUNDARY OF BORDERING VEGETATED WETLAND

NOTES:

UNDERGROUND UTILITIES ARE NOT SHOWN.

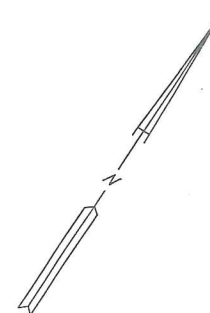
THE EXISTING GROUND FEATURES SHOWN ON THIS PLAN WERE PREPARED FROM A PLAN RECEIVED FROM NEEDHAM DEPARTMENT OF PUBLIC WORKS (RIDGE HILL RESERVATION) RIDGE HILL SWAMP TRAIL, PLAN OF LAND, DATED FEBRUARY, 22, 2013.

THIS PLAN IS NOT INTENDED TO BE USED FOR PROPERTY LINE PURPOSES.

PREPARED FOR:

**TOWN OF
NEEDHAM**
c/o CONSERVATION
COMMISSION
1471 HIGHLAND AVENUE,
NEEDHAM, MASS. 02492

IN PROGRESS
6/28/2013



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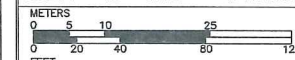
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ISSUE DATE		DESCRIPTION
DES	DWN	CHK'D APP'T

PROJECT:

**CHARLES RIVER
TRAIL
NEEDHAM, MASS.
(NORFOLK COUNTY)**

SCALE: 1" = 40' DATE: IN PROGRESS

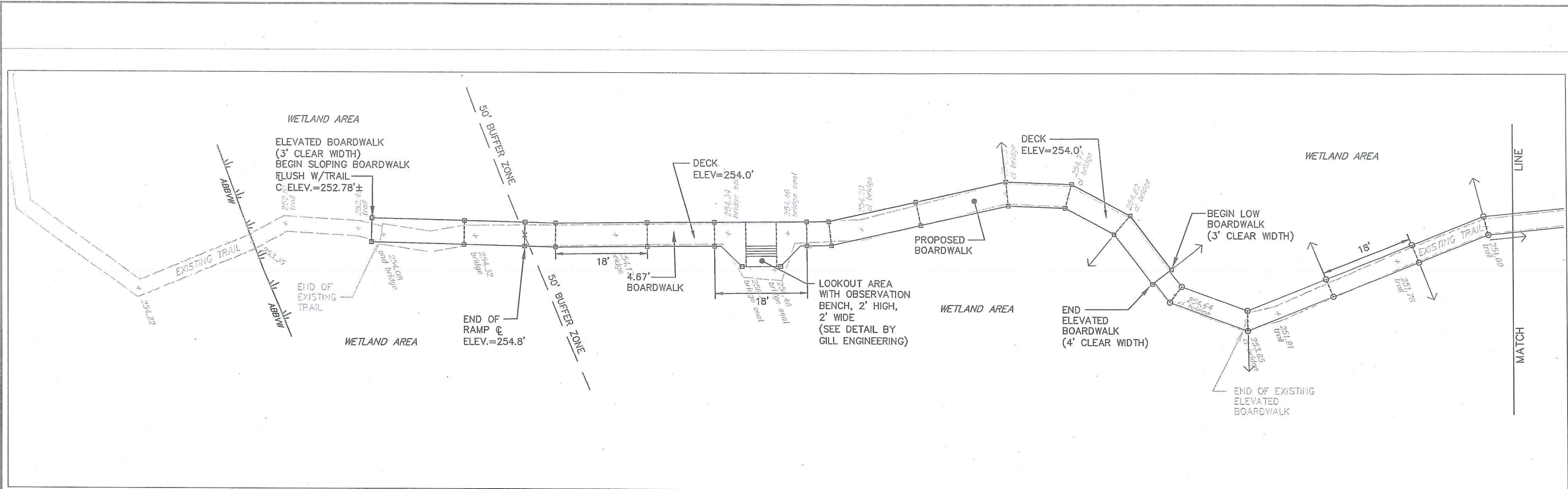


**OVERALL
INDEX PLAN**

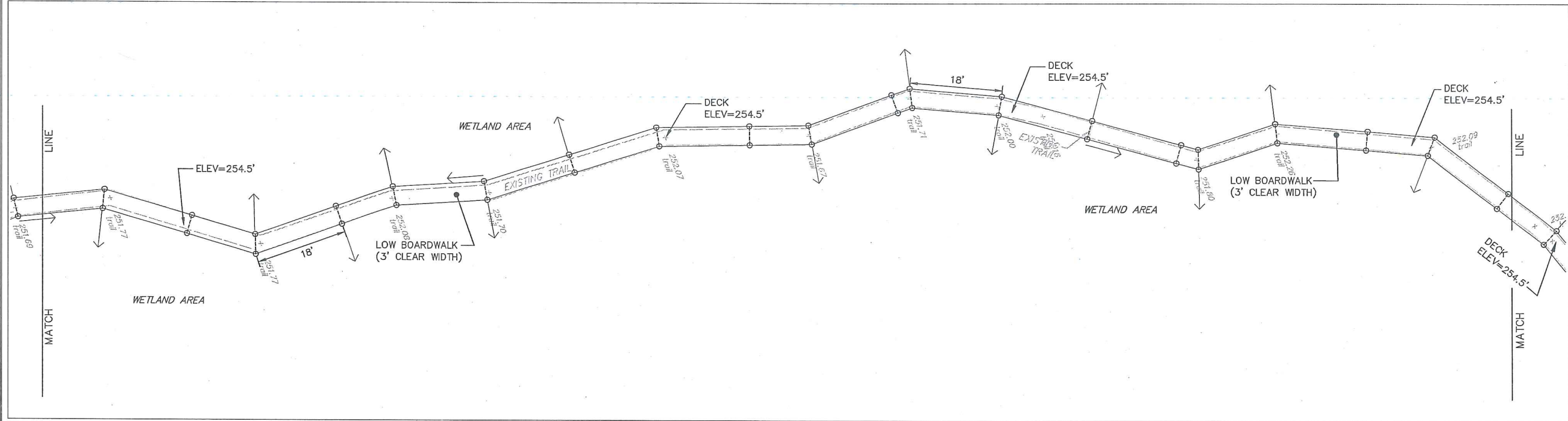
B+T JOB NO. 2035.02

B+T PLAN NO.
203502P003B-001

1



PLAN VIEW: 1" = 10'

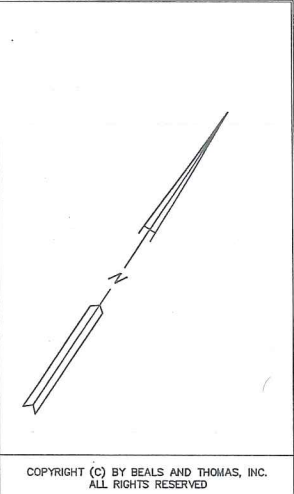


PLAN VIEW: 1" = 10'

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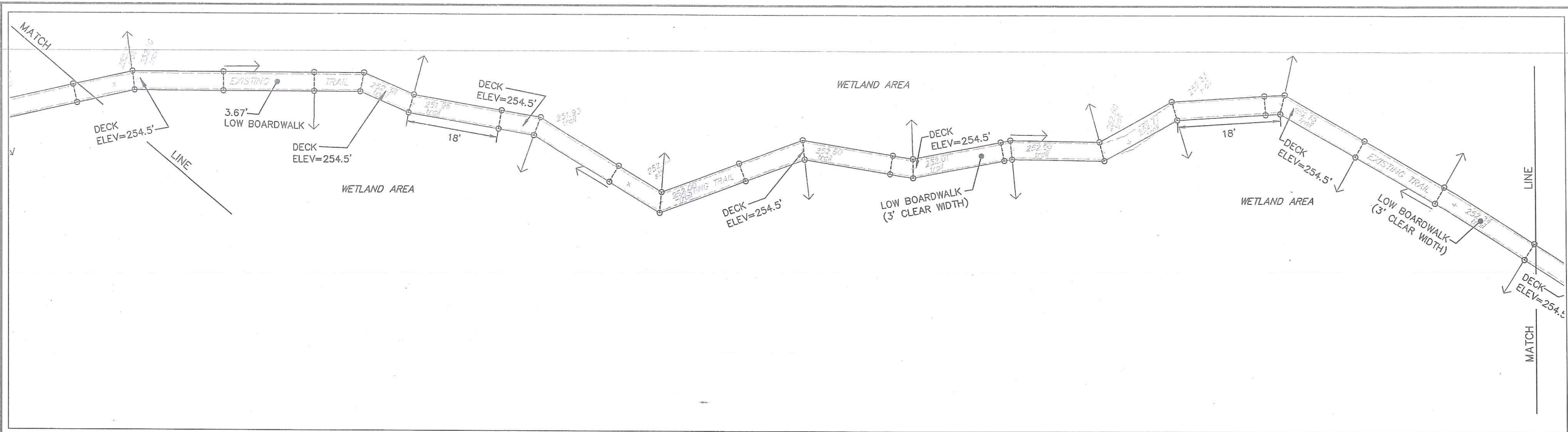
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LAYOUT PLAN

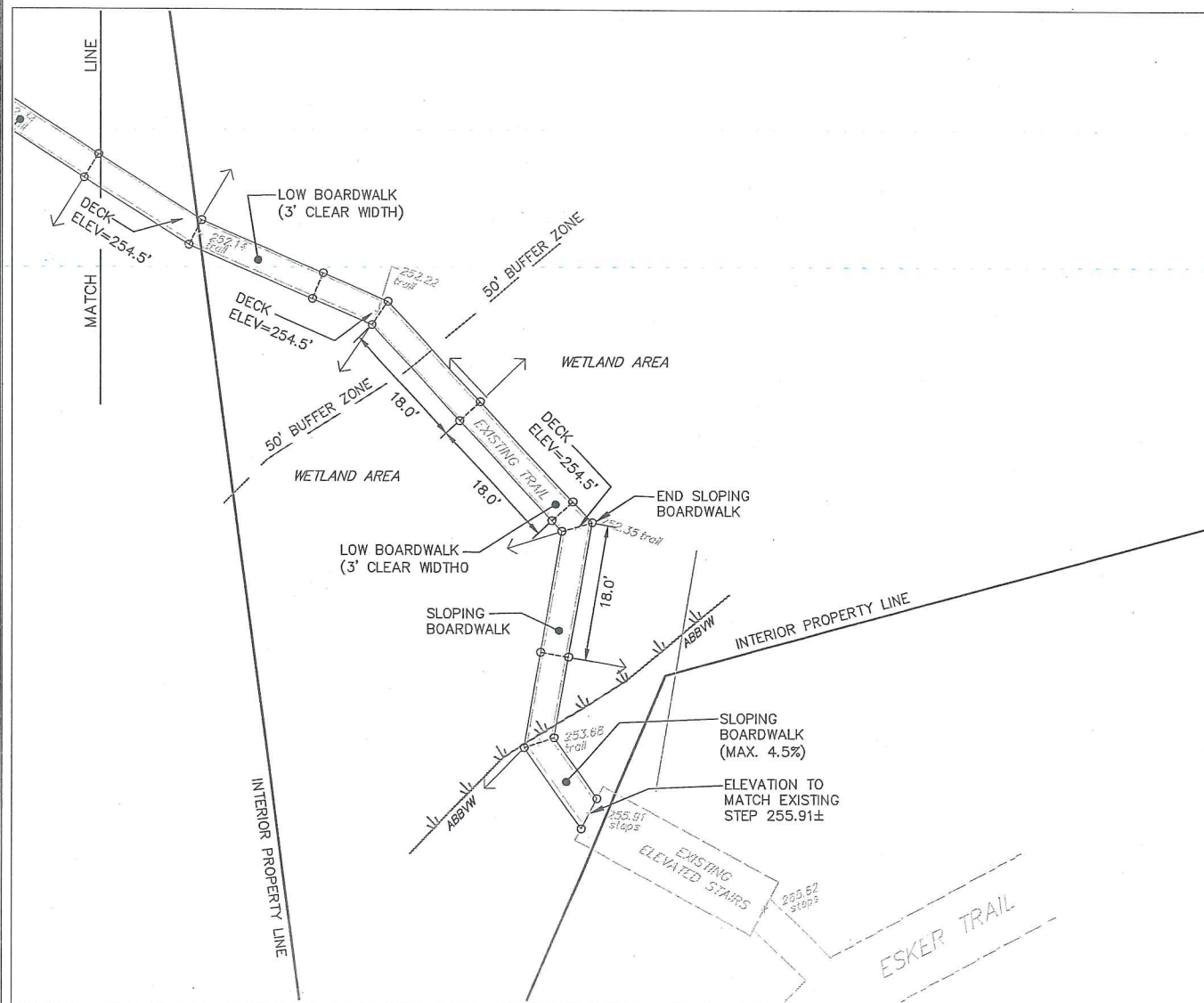
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203502P003B-002

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PLAN VIEW: 1" = 10'

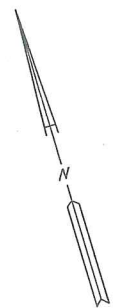


PLAN VIEW: 1" = 10'

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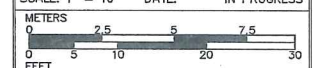
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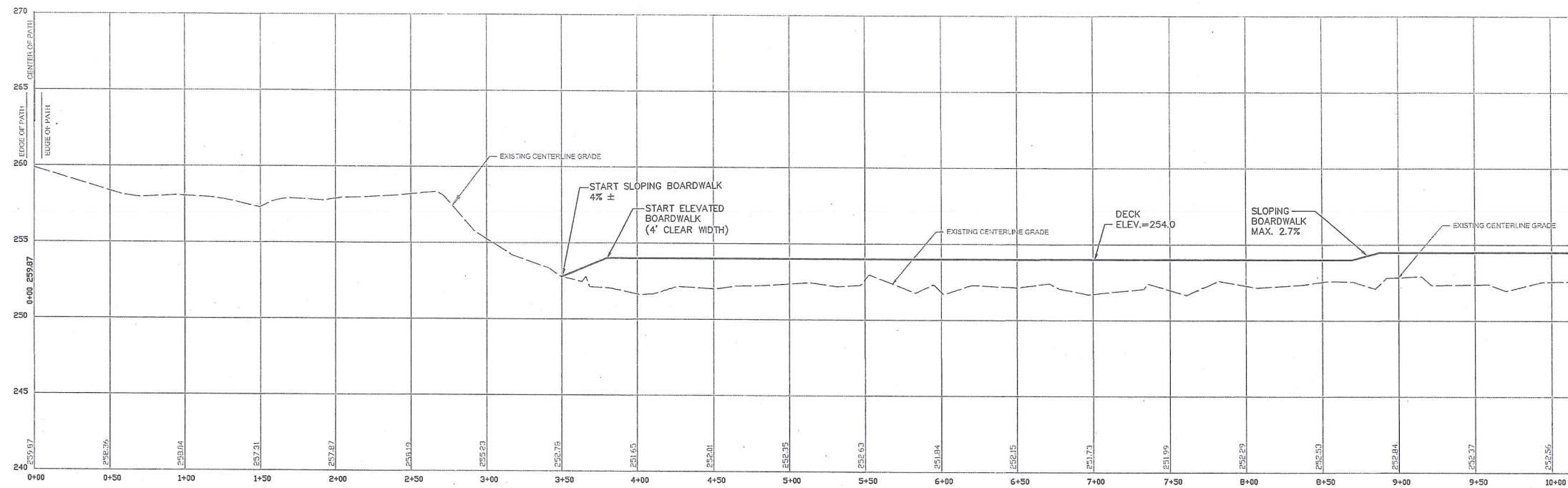


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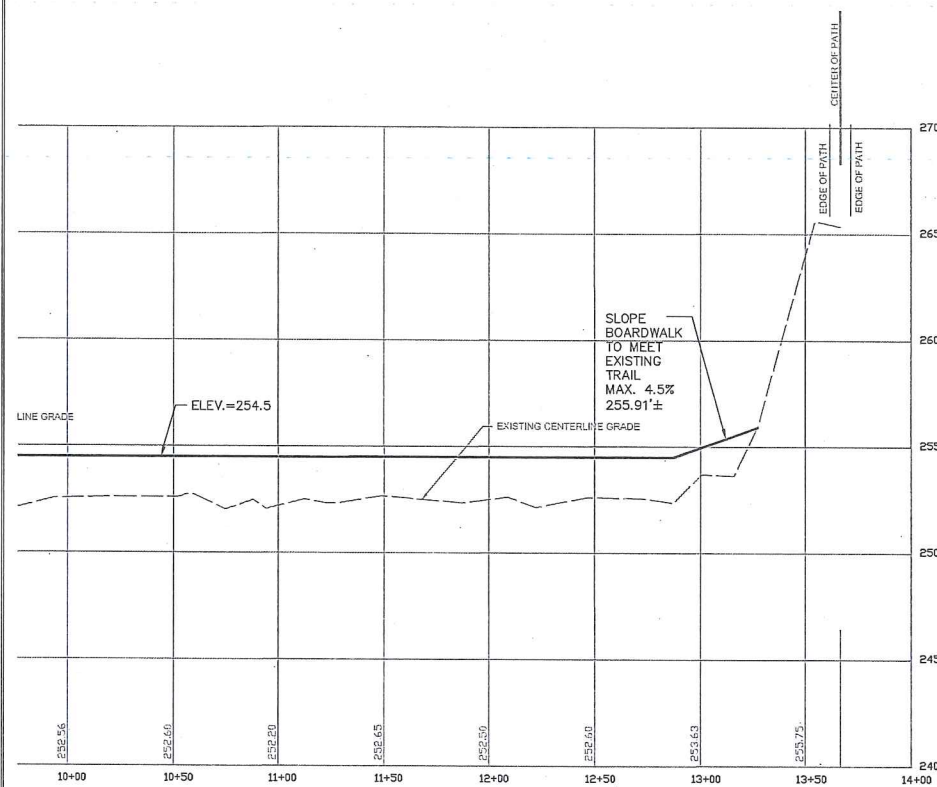
3



RIDGE HILL SWAMP TRAIL

SCALE:
1" = 40' HORIZ.
1" = 4' VERT.

NOTE:
STATIONING SHOWN ON PROFILE DOES NOT
MATCH CENTERLINE OF BOARDWALK.



RIDGE HILL SWAMP TRAIL

SCALE:
1" = 40' HORIZ.
1" = 4' VERT.

NOTE:
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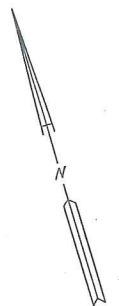
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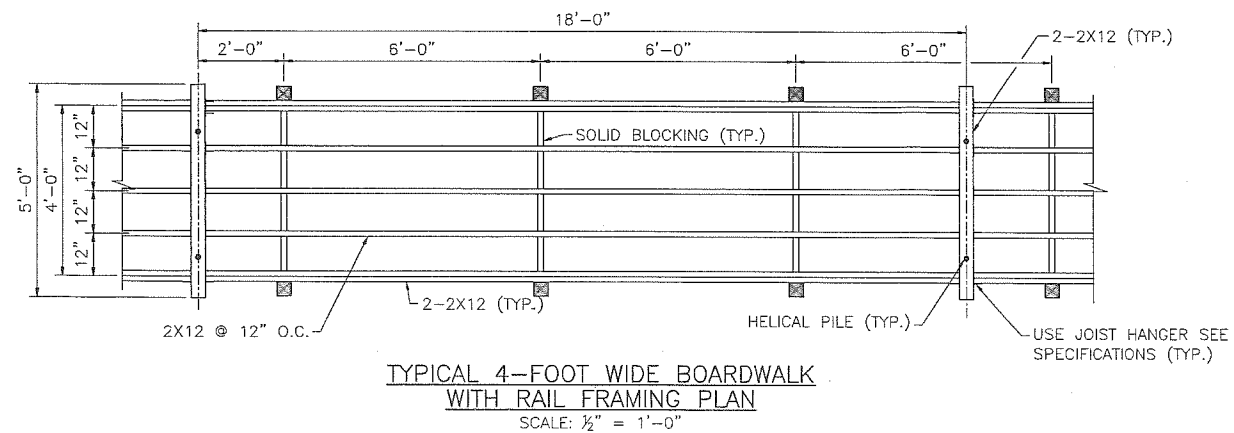
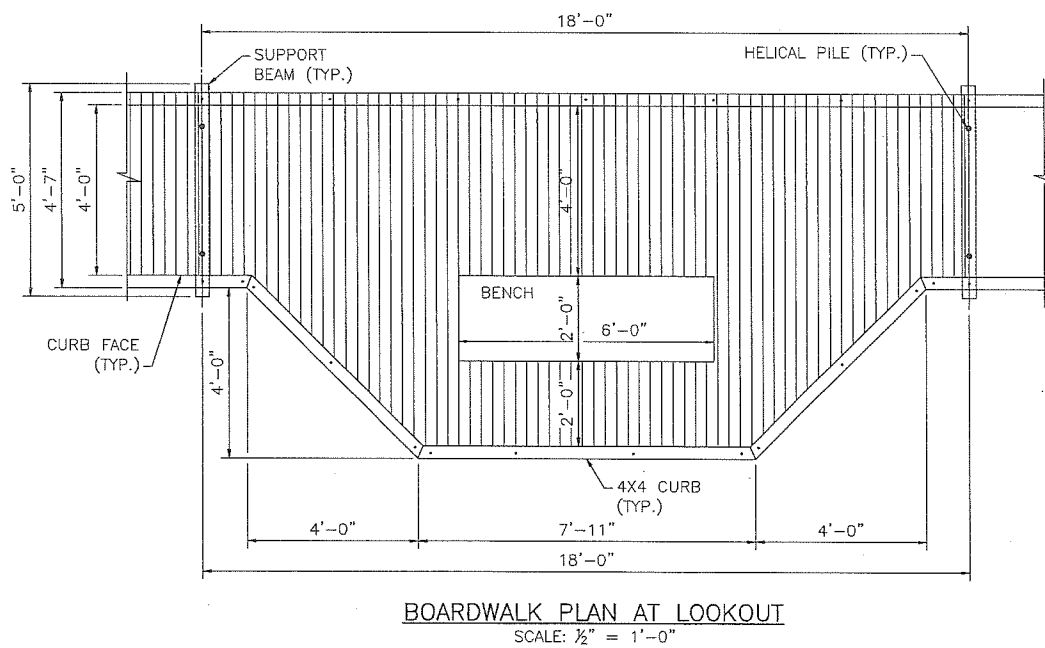
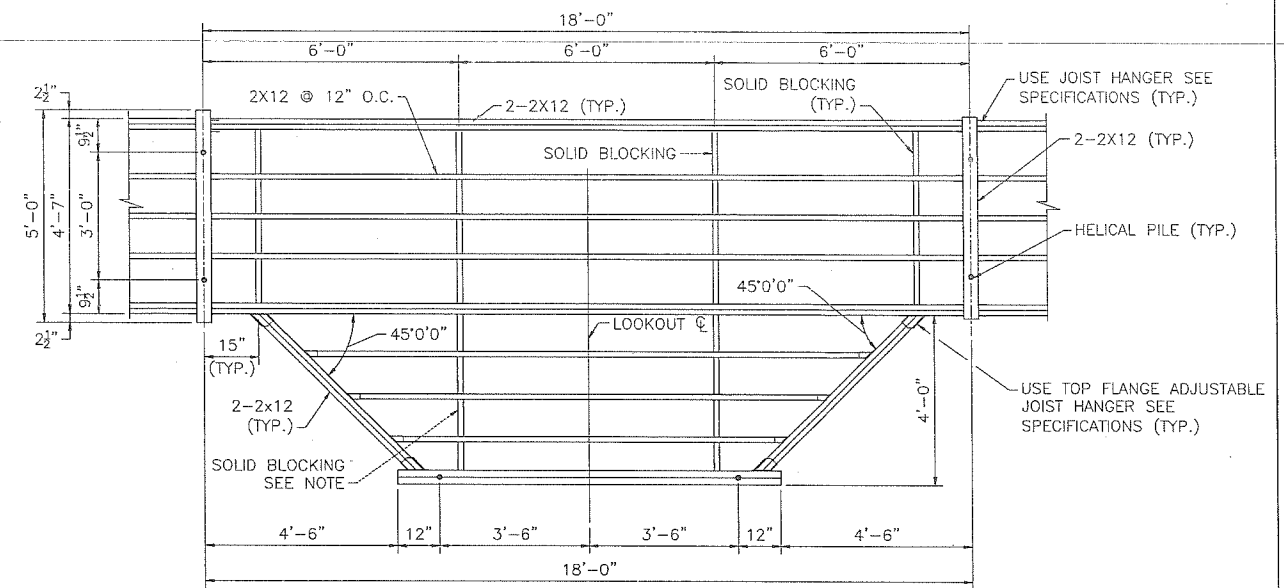
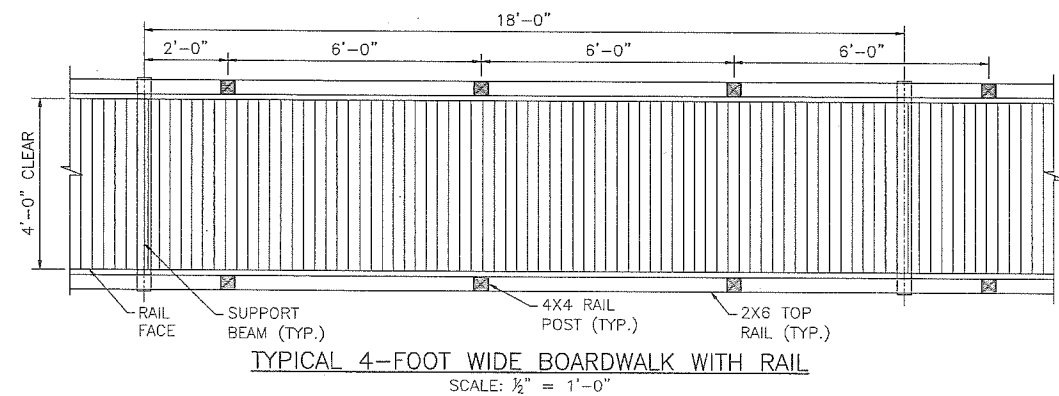
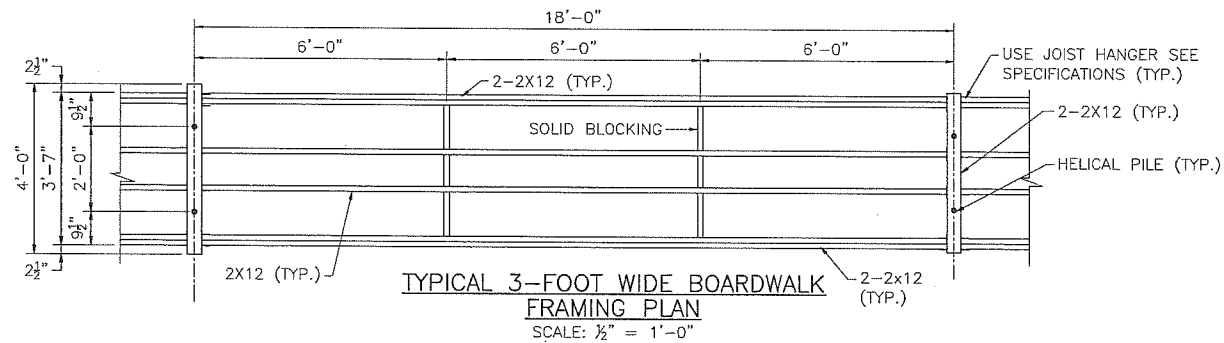
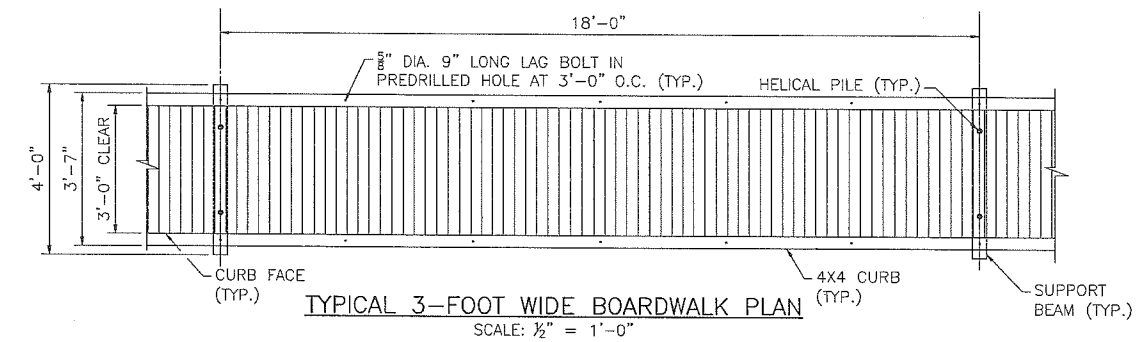
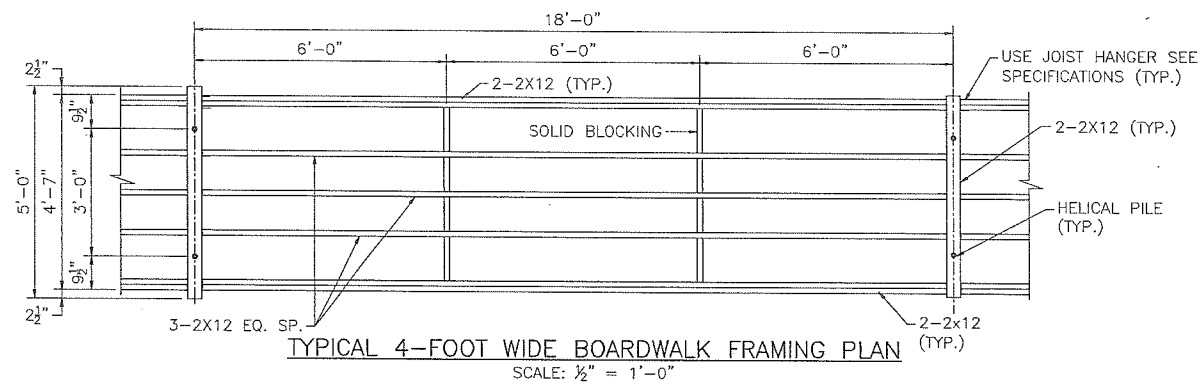
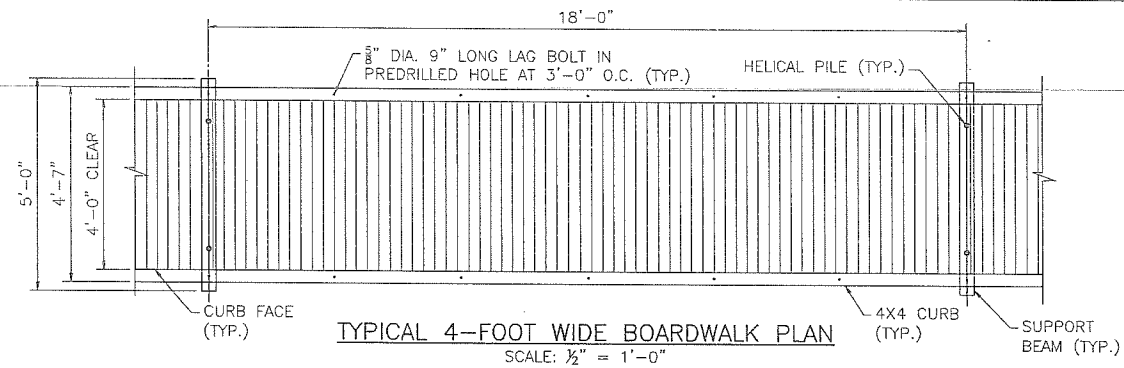
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PROFILE

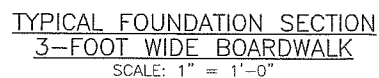
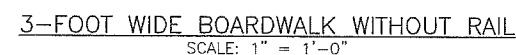
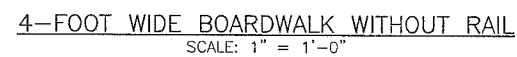
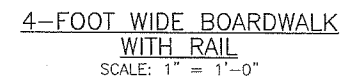
B+T JOB NO. 2035.02

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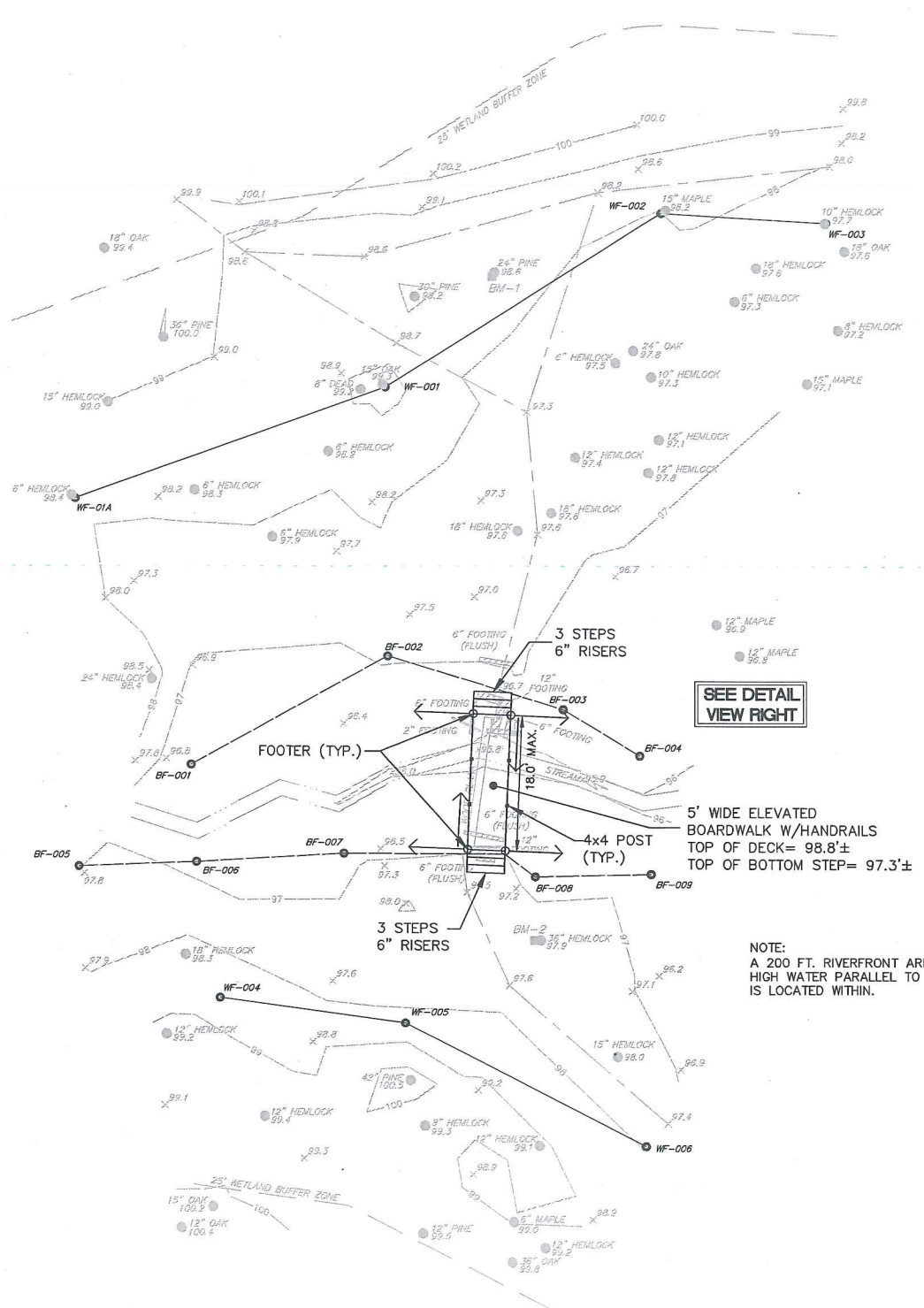


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1. DESIGN IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002, AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, 1997, MASSACHUSETTS STATE BUILDING CODE, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, 2005.
2. DESIGN LIVE LOAD = 85psf, WIND LOAD = 50 psf
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
4. ALL BOLTS SHALL BE $\frac{3}{4}$ " ϕ A307 GALV. U.O.N.
5. DECKING SHALL BE SCREWED TO JOISTS WITH #10 2 $\frac{1}{2}$ " STAINLESS STEEL, 16" SPACING, 2 PER CONNECTED MEMBER, MINIMUM, U.O.N.
6. TOE NAIL ALL JOISTS AT SUPPORTS WITH 4 GALV 12d NAILS.
7. ALL STRUCTURAL TIMBER MEMBERS TO BE PRESSURE-TREATED SOUTHERN YELLOW PINE (SYP) #1 OR BETTER.
8. ALL BOARDWALK STRUCTURAL TIMBER WOOD DIMENSIONS ARE NOMINAL.
9. ALL DOUBLE JOISTS SHALL BE FULLY GLUED AND NAILED W/ 3 8d NAILS @ 12" PITCH ALTERNATE SIDES.
10. HELICAL PILE FOUNDATIONS SHALL BE PROVIDED AS SHOWN ON THESE DETAILS AND IN THE LOCATIONS SHOWN ON THE LAYOUT PLANS. LOCATIONS OF LATERAL AND LONGITUDINAL HELICAL PILES ARE SHOWN ON THE LAYOUT PLANS. HELICAL PILE FOUNDATION DESIGN AND CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS INDICATED IN THE SPECIFICATIONS.
11. ALTERNATE SHALLOW PILE FOUNDATION SYSTEMS MAY BE UTILIZED IN LOCATIONS WHERE DEPTH TO COMPETENT SOIL IS SHALLOW (LESS THAN 7'-0"), AS INDICATED ON THE LAYOUT PLANS. SHALLOW FOUNDATION DESIGN AND CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS INDICATED IN THE SPECIFICATIONS.
12. ALL STEEL COMPONENTS SHALL BE GALVANIZED, INCLUDING JOIST HANGERS, NAILS, SCREWS, BOLTS, HELICAL ANCHORS AND ANY STEEL COMPONENTS RELATED TO SHALLOW PILE FOUNDATIONS.
13. HELICAL ANCHOR BEAM CONNECTION FOR VERTICAL, BRACING, AND INCLINED ANCHORS SHALL BE A CONCENTRICALLY LOADED SADDLE TYPE BRACKET, HAVING COMPRESSION AND/OR TENSION CAPACITIES AS INDICATED IN SPECIAL PROVISIONS. BRACKET SHALL BE CONNECTED TO TIMBER BEAM WITH 3 - 5/8" ϕ BOLTS AS SHOWN ON THE PLANS.

[illegible]



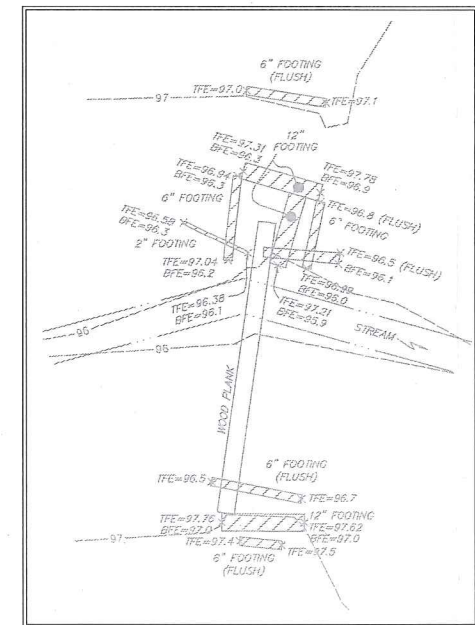
NOTE:
A 200 FT. RIVERFRONT AREA EXTENDS FROM BANK/MEAN ANNUAL
HIGH WATER PARALLEL TO THE STREAM. THE ENTIRE BOARDWALK
IS LOCATED WITHIN.

NOTES

- 1) THIS PLAN WAS PREPARED FROM AN ACTUAL SURVEY
MADE ON THE GROUND USING A ZEISS ELTA TOTAL
STATION ON NOVEMBER 7, 2012
- 2) WETLAND RESOURCE AREAS DELINEATED BY BEALS AND
THOMAS, INC. ON OCTOBER 31, 2012
- 3) WETLAND RESOURCE AREA FLAGS LOCATED BY ZEISS ELTA
TOTAL STATION METHODS BY BEALS AND THOMAS, INC.
ON NOVEMBER 7, 2012
- 4) THE PROJECT AREA IS LOCATED WITHIN THE 25-FOOT,
50-FOOT AND 100-FOOT BUFFER ZONES
- 5) ALL ELEVATIONS REFER TO AN ASSUMED DATUM OF
100.00
- 6) BENCHMARKS SET
BM-1: NAIL SET 1.5' UP IN 20" PINE TREE AS SHOWN ON
PLAN. ELEVATION = 100.00
BM-2: NAIL SET 1.5' UP IN 30" PINE TREE AS SHOWN ON
PLAN. ELEVATION = 99.49

LEGEND

- SPOT ELEVATION
- TOP OF FOOTING ELEVATION
- FOOTING ELEVATION AT GRADE
- BENCHMARK
- TREE
- WETLAND FLAG/BOUNDARY OF
BORDERING VEGETATED WETLAND
- BANK FLAG/BOUNDARY OF BANK
- MINOR CONTOUR
- MAJOR CONTOUR
- EDGE OF WATER
- CENTER OF TRAIL
- BUFFER ZONE
- PROPOSED HELICAL PILE (VERTICAL)
- PROPOSED HELICAL PILE (INCLINED)



EXISTING
DETAIL ELEVATION VIEW
NO SCALE

PREPARED FOR:

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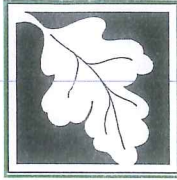
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FEET
0 5 10 20 30

LAYOUT PLAN

B+T JOB NO. 2035.02

B+T PLAN NO.
203502P004B-001



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& Needham Wetlands Protection Bylaw (Article 6)

A. General Information

From:

Needham

Conservation Commission

To: Applicant

Patricia Barry – Needham Conservation Depart.

Name

PSAB – 500 Dedham Avenue

Mailing Address

Needham

City/Town

MA

State

02492

Zip Code

Property Owner (if different from applicant):

Needham Conservation Commission

Name

Mailing Address

City/Town

State

Zip Code

1. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

Ridge Hill Reservation Trail and Site Location Map "Exhibit A"

Title

N/A

Date

Ridge Hill Reservation Boardwalk and Bridge Survey "Exhibit B"

Title

8/18/2011

Date

1987 USGS Topographical Map Ridge Hill Reservation

Title

1/29/2013

Date

2. Date Request Filed:

March 28, 2013

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

The proposed project includes 3 exploratory soil borings within Bordering Vegetated Wetlands (BVW) along the Ridge Hill Reservation Swamp Trail to obtain information on the peat layer in order to design the proposed boardwalk replacement project. The Commission determined that the proposed borings within BVW along the existing trail are temporary in nature, have negligible impacts and are necessary for the planning and design of the Swamp Trail Boardwalk Replacement project; therefore, the proposed work will not destroy or otherwise impair any portion of the BVW. Additionally no work is proposed within specified habitat sites of rare vertebrate or invertebrate species or Areas of Critical Environmental Concern. Furthermore, the Commission finds that this activity would not impair the ability of the BVW to protect the Interests of the Act and Bylaw. The procedures and conditions established, as specified in Section B. 2., will further ensure that this project protects the interests of the Act and Bylaw.

Project Location:

463 Charles River St. (Ridge Hill Reservation Swamp Trail)

Street Address

306

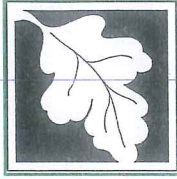
Assessors Map/Plat Number

Needham

City/Town

1

Parcel/Lot Number



WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& Needham Wetlands Protection Bylaw (Article 6)

B. Determination (cont.)

The following Determination is applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations and the Needham Wetlands Protection Bylaw and regulations:

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

- ☐ 1. The area described in the Request is not an area subject to protection under the Act or the Buffer Zone.
- ☒ 2. The work described in the Request is within an area subject to protection under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
The proposed soil test borings will be completed using a tripod-mounted soil boring rig. The equipment is portable, enabling it to be transported along the existing trails to the edge of wetlands by ATV or similar vehicle and then hand-carried to the drilling location within the wetland. Half inch plastic sheets (i.e. Terra Mats or approved equivalent) will be placed under the tripod legs to prevent the legs from disturbing the ground and sinking. All work will occur within the existing Swamp Trail footprint.
- ☐ 3. The work described in the Request is within the Buffer Zone, as defined in the Bylaw regulations, but will not alter an Area subject to protection under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).
- ☐ 4. The work described in the Request is not within an Area subject to protection under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to protection under the Act.
- ☐ 5. The area described in the Request is subject to protection under the Act and Bylaw. Since the work described therein meets the requirements for the following exemption, as specified in the Act, Bylaw and associated regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

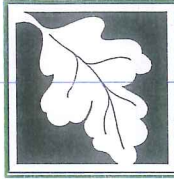
- ☐ 6. The area and/or work described in the Request is not subject to review and approval by:

Name of Municipality

Pursuant to a municipal wetlands ordinance or bylaw.

Name

Ordinance or Bylaw Citation



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
& Needham Wetlands Protection Bylaw (Article 6)

C. Authorization

This Determination is issued to the applicant and delivered as follows:

☒ by hand delivery on ☐ by certified mail, return receipt requested on

April 11, 2013
Date

Date

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. A copy must be sent to the appropriate DEP Regional Office (see <http://www.mass.gov/dep/about/region.findyour.htm>) and the property owner (if different from the applicant).

Signatures:

Lisa A. Buckley
Sharon C. Kelly
Deborah A. Kelly
Janet C. Bursack
Marshall C. Salter
Stu Fan

April 11, 2013
Date

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office (see <http://www.mass.gov/dep/about/region.findyour.htm>) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see Request for Departmental Action Fee Transmittal Form) as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant if he/she is not the appellant. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.

**REQUEST FOR DETERMINATION OF APPLICABILITY CHECKLIST
NEEDHAM CONSERVATION COMMISSION
NEEDHAM GENERAL WETLANDS BY-LAW – ARTICLE 6**

THIS CHECKLIST MUST BE COMPLETED, SIGNED AND SUBMITTED WITH ANY REQUEST FOR DETERMINATION OF APPLICABILITY. ALL REQUIRED INFORMATION AND NOTIFICATIONS MUST BE INCLUDED IN ORDER FOR THE APPLICATION TO BE CONSIDERED COMPLETE. SECTION 1.05(3) OF THE BYLAW REGULATIONS SHOULD BE CONSULTED.

PROOF OF NOTIFICATIONS (by certified mail, return receipt or hand delivery)

☒ All Abutters within 300 feet of the property line. (SUBMIT AT OR PRIOR TO HEARING)

PLANS (shall include the following)

- ☒ At a minimum must include an 8 ½ x 11 Plot Plan
- ☐ Plans prepared by a Registered Professional Engineer or Registered Land Surveyor are recommended but not required.
- ☒ Shows existing conditions (grades, structures, roads, treelines, and limits of existing lawn)
- ☒ Clearly shows the boundaries of all regulated resource areas (vegetated wetland, bank, bordering land subject to flooding, isolated land subject to flooding, riverfront area), including the 100-foot and 25-foot Buffer Zone limits as defined under the Wetlands Protection Act and the Needham General Wetlands By-Law and Regulations.
- ☒ Clearly shows the location and numbers of all wetland flags
- ☒ Show all work to be done, including but not limited to proposed grades, locations of all structures, roads, paths, utilities, drainage structures, trees to be removed, changes in lawn edges, plantings, and proposed tree line.
- ☐ Clearly shows the 25-foot "No-work Zone", and the proposed limit of work
- ☐ Shows the minimum distance between the limit of proposed work (erosion controls) and the edge of wetland
- ☐ Details of any subsurface drainage structure
- ☐ Detail of any erosion control measure

DOCUMENTS

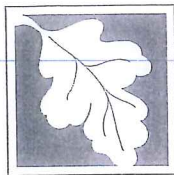
- ☒ Written Description of the work proposed, including a description of any excavation, proposed structures, and erosion and sedimentation controls.
- ☒ Copy of the Assessor's Map or Subdivision Plan showing abutting and adjacent lots within 300 feet of the parcel on which work is proposed.

Signature:  Date: 3/28/2013

RECEIVED

MAR 28 2013

**TOWN OF NEEDHAM
CONSERVATION DEPARTMENT**



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:

Town of Needham - Conservation Department
Name
PSAB - 500 Dedham Ave
Mailing Address
Needham
City/Town
MA
State
02492
Zip Code
781-455-7550 x222
Phone Number
781-449-9023
Fax Number (if applicable)
pbarry@needhamma.gov
E-Mail Address

2. Representative (if any):

Conservation Department Director
Firm
Patricia Barry
Contact Name
Same as Applicant
Mailing Address
City/Town
State
Zip Code
Phone Number
Fax Number (if applicable)

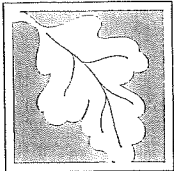
B. Determinations

1. I request the Needham Conservation Commission make the following determination(s). Check any that apply:

- ☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.
- ☒ c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.
- ☒ d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Needham
Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).



C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

463 Charles River Street	Needham
Street Address	City/Town
306	1
Assessors Map/Plat Number	Parcel/Lot Number

- b. Area Description (use additional paper, if necessary):

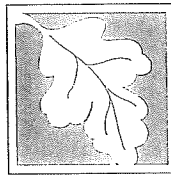
Ridge Hill Reservation contains one of the Town's largest trail networks, with trails extending along the north-south esker (the "ridge"), through uplands east of the ridge to the former Nike site, and west of the ridge through uplands and across the gas pipeline to Cartwright Street and Grove Street. The Swamp Trail is a critical link in this trail network. It extends across a large forested wetland, and is the only connection between the east and west trail networks. In order to cross the wettest part of the swamp, including an intermittent stream, the Swamp Trail is elevated on a boardwalk and bridge. These structures were constructed more than 20 years ago, and have failed due to decay. The proposed test borings are necessary to design the replacement boardwalk and maintain this trail connection and the public's enjoyment of the Reservation (see Attachments 1 & 2).

- c. Plan and/or Map Reference(s):

Title	Date
Title	Date
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

The Conservation Department is proposing to conduct 3 soil borings within Bordering Vegetated Wetlands along the Ridge Hill Reservation Swamp Trail to obtain information on the peat layer in order to design the proposed boardwalk replacement project (see attached). The operation will be completed using a tripod-mounted soil boring rig. Standard Penetration Test blow-counts are recorded and split spoon soil samples are collected every five feet. The equipment is portable, enabling it to be transported along the existing trails to the edge of wetlands by ATV or similar vehicle and then hand-carried to the drilling location within the wetland. Three soil borings, at both ends of the trail and in the middle, should provide sufficient information to confirm the preferred alternative for the boardwalk to be replaced. Determining the depth to bedrock and/or mineral parent material and/or peat layer composition is crucial to designing an appropriate bridge and boardwalk support system. Half inch plastic sheets (i.e. Terra Mats or approved equivalent) will be placed under the tripod legs to prevent the legs from disturbing the ground and sinking. All work will occur within the existing Swamp Trail footprint.



WPA Form 1 - Request for Determination of Applicability
Massachusetts Wetlands Protection Act v.G.L. c. 131, §4C

C. Project Description (cont.)

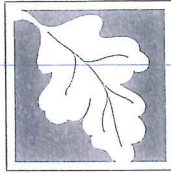
b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

The proposed exploratory soil borings within bordering vegetated wetlands along the existing trail are temporary in nature, have negligible impacts and are necessary for the planning and design of the Swamp Trail Boardwalk Replacement project. Therefore, the proposed work will not destroy or otherwise impair any portion of the bordering vegetated wetland. Additionally, no work is proposed within specified habitat sites of rare vertebrate or invertebrate species or Areas of Critical Environmental Concern.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Town of Needham - Conservation Commission

Name

PSAB - 500 Dedham Avenue

Mailing Address

Needham

City/Town

MA

State

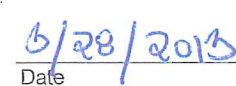
02092

Zip Code

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.


Signature of Applicant


Date

Signature of Representative (if any)

Date

ABUTTER INFORMATION

~~~~~

**AFFIDAVIT OF SERVICE**

Under the MA Wetlands Protection Act (M.G.L. Chapter 131 Section 40) &  
The Needham General Wetlands Protection Bylaw (Article 6)

I, Patricia L. Barry hereby certify under the pains and penalties of perjury that on April 1,  
2013 I gave notification to abutters in compliance with the Needham Wetlands Protection  
Bylaw in connection with the following matter:

A Request for Determination of Applicability filed under the Massachusetts Wetlands  
Protection Act and the Needham Wetlands Protection Bylaw with the Needham Conservation  
Commission for property located at 463 Charles River Street (Ridge Hill Reservation).

The form of the notification and the list of abutters to whom it was given, and their addresses,  
are attached to this Affidavit of Service.

Patricia L. Barry  
Name

4/1/2013  
Date

463 Charles River Street

| OWNER NAME 1                  | OWNER NAME 2                      | MAILING ADDRESS        | CITY        | STATE | ZIP   | PARCEL ID        | PROPERTY ADDRESS       |
|-------------------------------|-----------------------------------|------------------------|-------------|-------|-------|------------------|------------------------|
| TOWN OF NEEDHAM               | RIDGE HILL                        | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1993060000100000 | 463 CHARLES RIVER ST   |
| TOWN OF NEEDHAM               |                                   | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1992190000100000 | 0 CARTWRIGHT RD        |
| THIESSEN, PHILIP W. &         | THIESSEN, CAROL P.                | 333 CARTWRIGHT ROAD    | WELLESLI MA |       | 02482 | 1992190001900000 | 0 CARTWRIGHT RD        |
| TOWN OF NEEDHAM               | CONSERVATION                      | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1992200000400000 | 0 GROVE ST             |
| ROTHMAN, STUART J &           | ROTHMAN, LISA J                   | 149 BEARD WAY          | NEEDHAM MA  |       | 02492 | 1992200002400000 | 149 BEARD WAY          |
| HURWITZ, JOHN H. &            | HURWITZ, LISA B.                  | 115 BEARD WAY          | NEEDHAM MA  |       | 02492 | 1992200002800000 | 115 BEARD WAY          |
| SCHMIDT-SCHUEBER, ELISABETH   |                                   | 390 GROVE ST           | NEEDHAM MA  |       | 02492 | 1992210000900000 | 390 GROVE ST           |
| MITCHELL M. TANNER TRUST &    | GREELY, MARY LAURA & TANNER, FR   | 17 RAVINE RD           | WELLESLI MA |       | 02481 | 1992210001200000 | 12 PHEASANT LANDING RD |
| FARDY, MICHAEL S &            | FARDY, LAURA A                    | 68 PHEASANT LANDING R  | NEEDHAM MA  |       | 02492 | 1992210001600000 | 68 PHEASANT LANDING RD |
| STULIN, JEFFREY &             | HARRISON, MELINDA                 | 362 CARTWRIGHT RD      | WELLESLI MA |       | 02482 | 1992190001400040 | 362 CARTWRIGHT RD      |
| LEE, LESLIE                   |                                   | 366 CARTWRIGHT ROAD L  | WELLESLI MA |       | 02482 | 1992190001400020 | 366 CARTWRIGHT RD      |
| EITZMANN, CHRISTOPHER J       |                                   | 358 CARTWRIGHT RD, UNI | WELLESLI MA |       | 02482 | 1992190001400030 | 358 CARTWRIGHT RD      |
| ROGERS, STEPHANIE L.          |                                   | 145 BEARD WAY          | NEEDHAM MA  |       | 02492 | 1992200002500000 | 145 BEARD WAY          |
| BALDWIN, DENNIS &             |                                   | 125 BEARD WAY          | NEEDHAM MA  |       | 02492 | 1992200002700000 | 125 BEARD WAY          |
| MACCOLL, MALCOLM +            |                                   | PO BOX 1897            | SAGAMOR MA  |       | 02562 | 1992210000400000 | 54 PHEASANT LANDING RD |
| PASCUCCI, MICHAEL P. &        | MACCOLL, DOROTHY                  | 454 GROVE ST           | NEEDHAM MA  |       | 02492 | 1992210000600000 | 454 GROVE ST           |
| COLASACCO, DOMENIC &          | PASCUCCI, HOPE H.                 | 426 GROVE ST           | NEEDHAM MA  |       | 02492 | 1992210000700020 | 426 GROVE ST           |
| FOSTER, CHARLES W +           | SALETT, MARSHA C.                 | 484 CHARLES RIVER ST   | NEEDHAM MA  |       | 02492 | 1993040000200000 | 484 CHARLES RIVER ST   |
| TOWN OF NEEDHAM               | FOSTER BARBARA D                  | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1993040000600000 | 0 CHARLES RIVER ST     |
| KELLY, DANIEL J. &            | KELLY, PATRICIA G.                | 419 CHARLES RIVER ST   | NEEDHAM MA  |       | 02492 | 1993060000400000 | 419 CHARLES RIVER ST   |
| TOWN OF NEEDHAM               | RIDGE HILL                        | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1993060000900000 | 149 PINE ST            |
| TRACY, FRANCIS X. &           | DEAN, DEBORAH                     | 133 PINE ST            | NEEDHAM MA  |       | 02492 | 1992150003800000 | 133 PINE ST            |
| LENEHAN, PAMELA F.            |                                   | 22 PHEASANT LANDING R  | NEEDHAM MA  |       | 02492 | 1992210001300000 | 22 PHEASANT LANDING RD |
| BELKIN, MICHAEL &             | BELKIN, BARBARA                   | 87 PHEASANT LANDING R  | NEEDHAM MA  |       | 02492 | 1992210002000000 | 87 PHEASANT LANDING RD |
| TOWN OF NEEDHAM               |                                   | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1992210002500000 | 0 OFF PHEASANT LD RD   |
| YAZDANSETA, KIANOOSH          | ET AJ 47 PINE HILL REALTY TRUST   | 471 PINE HILL DRIVE    | NEEDHAM MA  |       | 02492 | 1992210003000000 | 47 PINE HILL DR        |
| BERGERON, ANDREA J.           |                                   | 35 PINE HILL DRIVE     | NEEDHAM MA  |       | 02492 | 1992210003100000 | 35 PINE HILL DR        |
| STAVROPOULOS, PETER &         | STAVROPOULOS, LISA                | 338 CHARLES RIVER ST   | NEEDHAM MA  |       | 02492 | 1993040000100000 | 338 CHARLES RIVER ST   |
| TOWN OF NEEDHAM               |                                   | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1993060000150000 | 0 CHARLES RIVER ST     |
| BIRD, FABIA                   |                                   | 111 PINE STREET        | NEEDHAM MA  |       | 02492 | 1992150001300000 | 111 PINE ST            |
| ALPERT, PAUL S. &             | SCHNITT, ELAINE                   | 116 PINE ST            | NEEDHAM MA  |       | 02492 | 1992150001500000 | 116 PINE ST            |
| SHAKER, JOSEPH R. & SUSAN R., | 130 PINE STREET REALTY TRUST      | 130 PINE STREET        | NEEDHAM MA  |       | 02492 | 1992150003700000 | 130 PINE ST            |
| SNOW, THOMAS G. & VALERIE G.  | C/O JIN, PENG & LI, ZHONGLING     | 52 STARR RIDGE         | NEEDHAM MA  |       | 02492 | 1992150004200000 | 52 STARR RIDGE         |
| BRAGDON, SHAWN M. &           | BRAGDON, KATHLEEN ALEXANDER       | 137 BEARD WAY          | NEEDHAM MA  |       | 02492 | 1992200002600000 | 137 BEARD WAY          |
| ALDEN, JOAN K.                |                                   | 380 GROVE ST           | NEEDHAM MA  |       | 02492 | 1992210001000000 | 380 GROVE ST           |
| FOSTER, CHARLES W             |                                   | 484 CHARLES RIVER ST   | NEEDHAM MA  |       | 02492 | 1993040000500000 | 0 CHARLES RIVER ST     |
| ABRISHAMIAN, RAMIN &          | ABRISHAMIAN, DIANA V. GARCIA M. I | 534 CHARLES RIVER ST   | NEEDHAM MA  |       | 02492 | 1993050002000000 | 534 CHARLES RIVER ST   |
| VON DER GOLTZ, H.J. &         | VON DER GOLTZ, BELLE C.           | 590 CHARLES RIVER STRE | NEEDHAM MA  |       | 02492 | 1993050002200000 | 590 CHARLES RIVER ST   |
| KOZAK, GEORGE P               |                                   | 365 CHARLES RIVER ST   | NEEDHAM MA  |       | 02492 | 1993060000800000 | 365 CHARLES RIVER ST   |
| TOWN OF NEEDHAM               |                                   | 1471 HIGHLAND AVE      | NEEDHAM MA  |       | 02492 | 1993060000140000 | 0 CHARLES RIVER ST     |
| CONVERSE, SHIRLEY E           |                                   | 67 PINE ST             | NEEDHAM MA  |       | 02492 | 1992150001000000 | 67 PINE ST             |
| GIBBONS, PAUL F &             | GIBBONS, DEBRA H                  | 105 BEARD WAY          | NEEDHAM MA  |       | 02492 | 1992200002900000 | 105 BEARD WAY          |
| BADAVAS, ROBERT P. &          | BADAVAS, KALLIOPE D.              | 402 GROVE ST           | NEEDHAM MA  |       | 02492 | 1992210000800000 | 402 GROVE ST           |
| CONNOLLY, PATRICIA RYAN       |                                   | 36 PHEASANT LANDING R  | NEEDHAM MA  |       | 02492 | 1992210001400000 | 36 PHEASANT LANDING RD |

Certified as list of parties in interest under Mass. General Laws and Needham Zoning By-Law, to the Best of our knowledge for the Needham Board of Assessors. ....

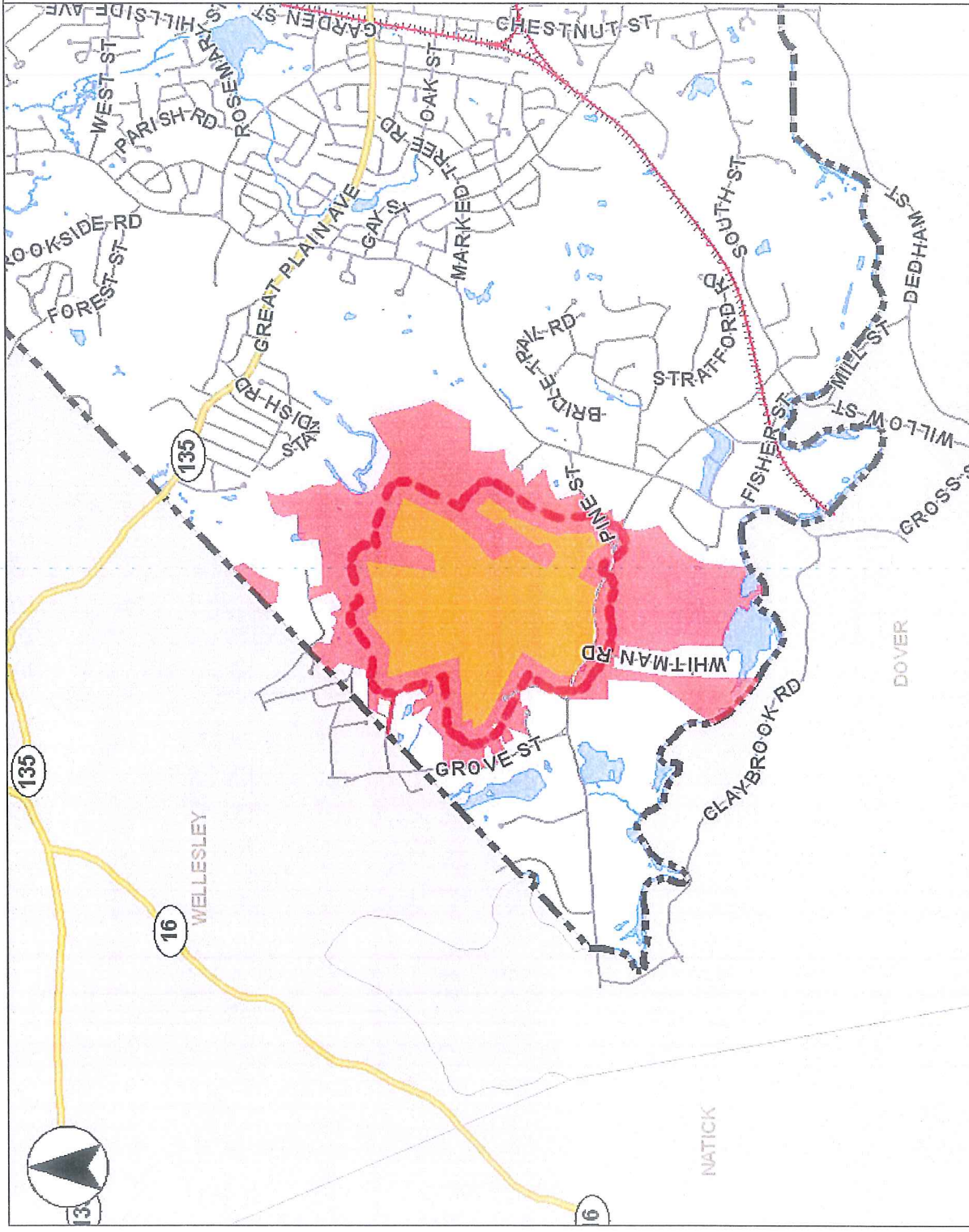


463 Charles River Street

|                                                 |                         |                                                       |                 |        |                  |                        |
|-------------------------------------------------|-------------------------|-------------------------------------------------------|-----------------|--------|------------------|------------------------|
| FARDY, MICHAEL S & REYNOLDS, GEORGE F & PRISCIL | FARDY, FARDY A          | 68 PHEASANT LANDING R                                 | NEEDHAM MA      | 02492  | 1992210001700000 | 0 PHEASANT LANDING RD  |
| TSAY, STEVE & FOSTER, CHARLES W                 | C/O SOFT/EXPORT LIMITED | UNIT 7, 78 FURZE ROAD                                 | DUBLIN 18 IREL, | 00018  | 1992210001900000 | 91 PHEASANT LANDING RD |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 73 PHEASANT LANDING R                                 | NEEDHAM MA      | 02492  | 1992210002100000 | 73 PHEASANT LANDING RD |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 484 CHARLES RIVER ST                                  | NEEDHAM MA      | 02492  | 1993040000400000 | 0 CHARLES RIVER ST     |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | P O BOX 567                                           | NORWOOL MA      | 02062  | 1993050002400000 | 570 CHARLES RIVER ST   |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | C/O THOMAS M. PIERSIAK & SONS INC 14 HOLLAND STREET   | NEEDHAM MA      | 02494  | 1992150001200000 | 105 PINE ST            |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 403 CHARLES RIVER ST                                  | NEEDHAM MA      | 02492  | 1993060000500000 | 403 CHARLES RIVER ST   |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 696 VIRGINIA RD                                       | CONCORDE MA     | 01742- | 1992150000900000 | 0 PINE ST              |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 16 WHITMAN RD                                         | NEEDHAM MA      | 02492  | 1993050000100000 | 16 WHITMAN RD          |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 25 WHITMAN RD                                         | NEEDHAM MA      | 02492  | 1993050001900000 | 25 WHITMAN RD          |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 395 CHARLES RIVER ST                                  | NEEDHAM MA      | 02492  | 1993060000600000 | 395 CHARLES RIVER ST   |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 1471 HIGHLAND AVE                                     | NEEDHAM MA      | 02492  | 1993060001100000 | 0 PINE ST              |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 401 CITY AVENUE, SUITE 4                              | BALA CYN PA     | 19004  | 1993070000200000 | 1555 CENTRAL AVE       |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 85 PINE ST                                            | NEEDHAM MA      | 02492  | 1992150001100000 | 85 PINE ST             |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 121 PINE ST                                           | NEEDHAM MA      | 02492  | 1992150001400000 | 121 PINE ST            |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 1471 HIGHLAND AVE                                     | NEEDHAM MA      | 02492  | 1992180000400000 | 0 CARTWRIGHT RD        |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 146 BEARD WAY                                         | NEEDHAM MA      | 02492  | 1992200002300000 | 146 BEARD WAY          |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 116 BEARD WAY                                         | NEEDHAM MA      | 02492  | 1992200003200000 | 0 BEARD WAY            |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 46 PHEASANT LANDING R                                 | NEEDHAM MA      | 02492  | 1992210001500000 | 46 PHEASANT LANDING RD |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 478 CHARLES RIVER ST                                  | NEEDHAM MA      | 02492  | 1993040000300000 | 478 CHARLES RIVER ST   |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | C/O GAFFEY, RICHARD, GAFFEY & PAT 171 LOCKE DR        | MARLBOR MA      | 01752  | 1993050002300000 | 0 CHARLES RIVER ST     |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 1471 HIGHLAND AVE                                     | NEEDHAM MA      | 02492  | 1993060001300000 | 0 CARTWRIGHT RD        |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 569 CHARLES RIVER ST                                  | NEEDHAM MA      | 02492  | 1992210001100000 | 569 CHARLES RIVER ST   |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | C/O WINIG, ANDREW N. & CAROL PALI 88 PHEASANT LANDING | NEEDHAM MA      | 02492  | 1992210001800000 | 88 PHEASANT LANDING RD |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 25 PINE HILL DR                                       | NEEDHAM MA      | 02492  | 1992210003200000 | 25 PINE HILL DR        |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 34 WHITMAN RD                                         | NEEDHAM MA      | 02492  | 1993050000200000 | 34 WHITMAN RD          |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | 379 CHARLES RIVER ST                                  | NEEDHAM MA      | 02492  | 1993060000700000 | 379 CHARLES RIVER ST   |
| TSAY, STEVE & FOSTER, CHARLES W                 | TSAY, JOYCE             | ZAPPALA, LISA W.                                      | NEEDHAM MA      | 02492  |                  |                        |

Certified as list of parties in interest under Mass. General Laws and Needham Zoning By-Law, to the Best of our knowledge for the Needham Board of Assessors. .... *[Signature]*

- Highways
- Interstate
  - US Highway
  - State Highway
  - Town Boundary
  - Railroad Track
  - Road Centerlines
  - Abutting Towns
  - Waterbody



The data shown on this site are provided for information and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data. Data should not be considered accurate, current or complete. Planimetric data is created from April 2009 aerial photographs.

0 2600 5200 ft

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MapsOnline

## ABUTTER NOTIFICATION

### NOTICE OF PUBLIC HEARING

Pursuant to the MA Wetlands Protection Act (MGL Ch.131 s.40) and the Needham General Wetlands Protection By-Law (Article 6), notice is hereby given that the Needham Conservation Commission will hold a PUBLIC HEARING at the NEEDHAM PUBLIC SERVICES ADMINISTRATION BUILDING, Charles River Room, 500 Dedham Avenue, on THURSDAY, April 11, 2013 at 8:30 p.m. to review a REQUEST FOR DETERMINATION OF APPLICABILITY filed by the Town of Needham Conservation Department to determine whether the proposed soil test borings within Bordering Vegetated Wetlands along the existing Ridge Hill Reservation Swamp Trail is subject to jurisdiction under the Act and/or Bylaw. The project area is located at Ridge Hill Reservation – 463 Charles River Street shown on Needham Assessor's Map 306 Parcel 1. All interested parties are invited to attend. A complete copy of the filing may be inspected by appointment at the office of the Conservation Commission, 500 Dedham Avenue.



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FARDY A  
68 PHEASANT LANDING RD  
NEEDHAM, MA 02492  
HUNSICKER, JAMES T & HUNSICKER,  
EMILY D  
403 CHARLES RIVER ST  
NEEDHAM, MA 02492  
COLASACCO, JENNIFER M  
25 WHITMAN RD  
NEEDHAM, MA 02492  
RAYNER, WILLIAM J. & RAYNER,  
JEANNE M.  
85 PINE ST  
NEEDHAM, MA 02492  
FETZER, OLIVER ET ALS THE GROVE  
TRUST  
116 BEARD WAY  
NEEDHAM, MA 02492  
GAFFEY, RICHARD J., C/O GAFFEY,  
RICHARD, GAFFEY & PAINE, P.C  
171 LOCKE DR  
MARLBOROUGH, MA 01752  
KAHN, TAMAR  
25 PINE HILL DR  
NEEDHAM, MA 02492  
KOZAK, GEORGE P  
365 CHARLES RIVER ST  
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47 PINE HILL REALTY TRUST

47 PINE HILL DRIVE

NEEDHAM, MA 02492

BIRD, FABIA

111 PINE STREET

NEEDHAM, MA 02492

SNOW, THOMAS G. & VALERIE G. C/O

JIN, PENG & LI, ZHONGLING

52 STARR RIDGE

NEEDHAM, MA 02492

FOSTER, CHARLES W

484 CHARLES RIVER ST

NEEDHAM, MA 02492

HURWITZ, JOHN H. & HURWITZ, LISA

B.

115 BEARD WAY

NEEDHAM, MA 02492

FARDY, MICHAEL S & FARDY,

LAURA A

68 PHEASANT LANDING ROAD

NEEDHAM, MA 02492

EITZMANN, MIKAELA J &

EITZMANN, CHRISTOPHER J

358 CARTWRIGHT RD, UNIT 3

WELLESLEY, MA 02482

MACCOLL, MALCOLM + MACCOLL,

DOROTHY

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| 2.                                         | SCHMIDT-SCHUEBER, ELISABETH<br>390 GROVE ST<br>NEEDHAM, MA 02492                           |                                                   |     |         |
| 3.                                         | STULIN, JEFFREY & HARRISON,<br>MELINDA<br>362 CARTWRIGHT RD<br>WELLESLEY, MA 02482         |                                                   |     |         |
| 4.                                         | ROGERS, ADAM H. & ROGERS,<br>STEPHANIE L.<br>145 BEARD WAY<br>NEEDHAM, MA 02492            |                                                   |     |         |
| 5.                                         | PASCUCCI, MICHAEL P. & PASCUCCI,<br>HOPE H.<br>454 GROVE ST<br>NEEDHAM, MA 02492           |                                                   |     |         |
| 6.                                         | KELLY, DANIEL J. & KELLY,<br>PATRICIA G.<br>419 CHARLES RIVER ST<br>NEEDHAM, MA 02492      |                                                   |     |         |
| 7.                                         | BELKIN, MICHAEL & BELKIN,<br>BARBARA<br>87 PHEASANT LANDING RD<br>NEEDHAM, MA 02492        |                                                   |     |         |
| 8.                                         | STAVROPOULOS, PETER &<br>STAVROPOULOS, LISA<br>338 CHARLES RIVER ST<br>NEEDHAM, MA 02492   |                                                   |     |         |
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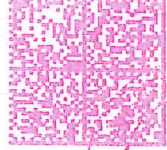
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KALLIOPE D.  
402 GROVE ST  
NEEDHAM, MA 02492  
REYNOLDS, GEORGE F & PRISCILLA  
C/O SOFT/EXPORT LIMITED  
UNIT 7, 78 FURZE ROAD  
DUBLIN 18 IRELAND, 00018  
NSTAR GAS COMPANY  
P O BOX 567  
NORWOOD, MA 02062  
UNITED STATES OF AMERICA CORPS  
OF ENGINEERS  
696 VIRGINIA RD  
CONCORD, MA 01742  
DONNELLY, HOWARD W. &  
DONNELLY, CAROL D.  
395 CHARLES RIVER ST  
NEEDHAM, MA 02492  
INGWERTSON, MARSHALL &  
GERMANI, CLARA E.  
121 PINE ST  
NEEDHAM, MA 02492  
MABREY, ROY E., JR. + MABREY,  
EDITH P.  
46 PHEASANT LANDING ROAD  
NEEDHAM, MA 02492  
GRIMM, F. JEROME & GRIMM, NOEL  
M.  
569 CHARLES RIVER ST  
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67 PINE ST  
NEEDHAM, MA 02492

CONNOLLY, PATRICIA RYAN  
36 PHEASANT LANDING RD  
NEEDHAM, MA 02492

TSAY, STEVE & TSAY, JOYCE  
73 PHEASANT LANDING RD  
NEEDHAM, MA 02492

KELLEY, ANNE MARIE C/O THOMAS  
M. PIERIAK & SONS INC.  
14 HOLLAND STREET  
NEEDHAM, MA 02494

GALLAGHER, JOHN H., JR, TR &  
GALLAGHER, CECILIA, TR  
16 WHITMAN RD  
NEEDHAM, MA 02492

ENTERCOM BOSTON, LLC  
401 CITY AVENUE, SUITE 409  
BALA CYNWYD, PA 19004

VIDAL, LUIS & VIDAL, JENNIFER  
SLIFKA  
146 BEARD WAY  
NEEDHAM, MA 02492

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KETTYLE, WILLIAM M & KETTYLE,  
CYNTHIA N  
478 CHARLES RIVER ST  
NEEDHAM, MA 02492

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ANDREW N. & CAROL PALMER  
88 PHEASANT LANDING  
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ZAPPALA, THOMAS J. & ZAPPALA,  
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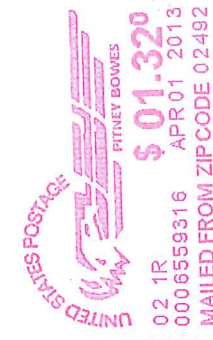
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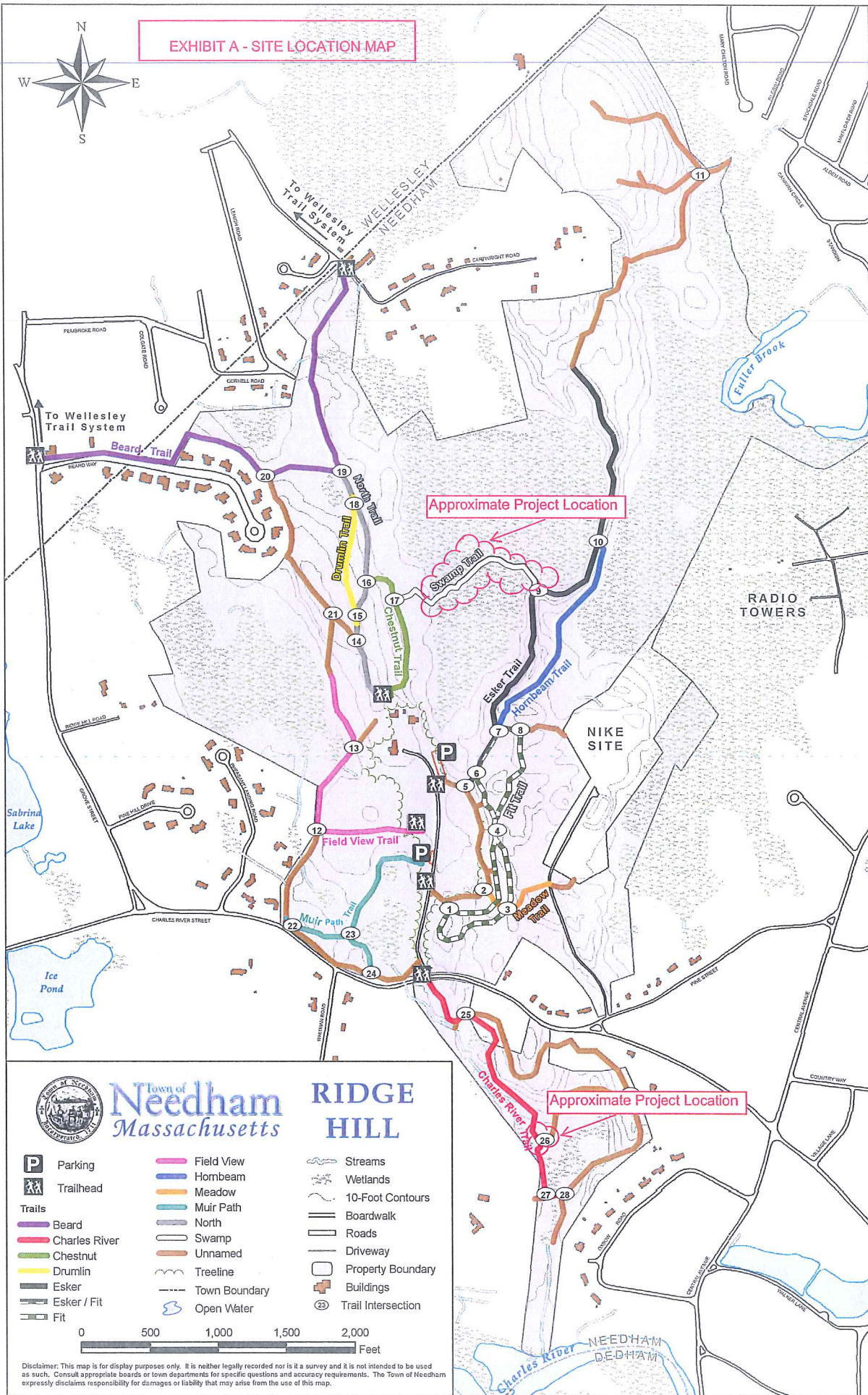
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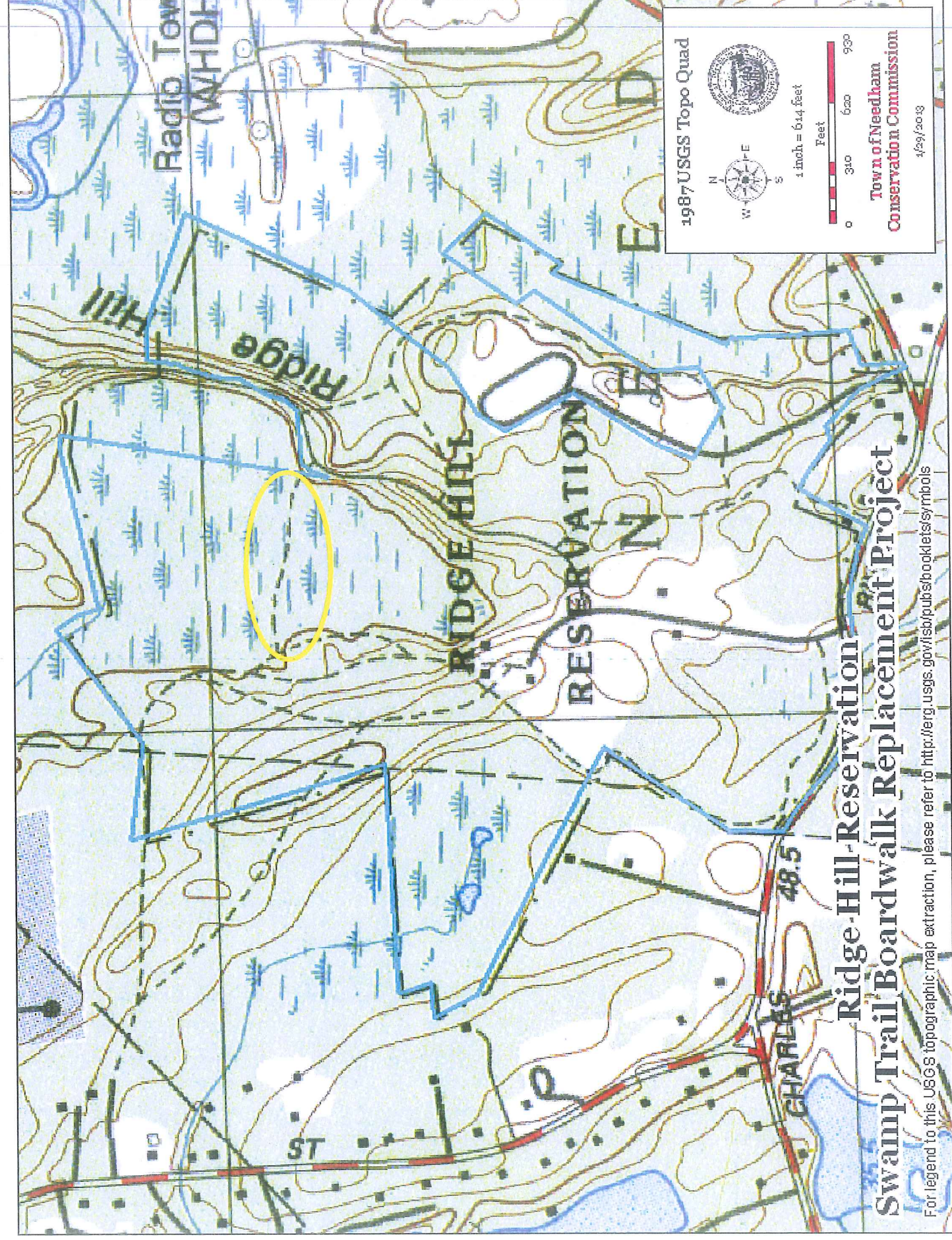


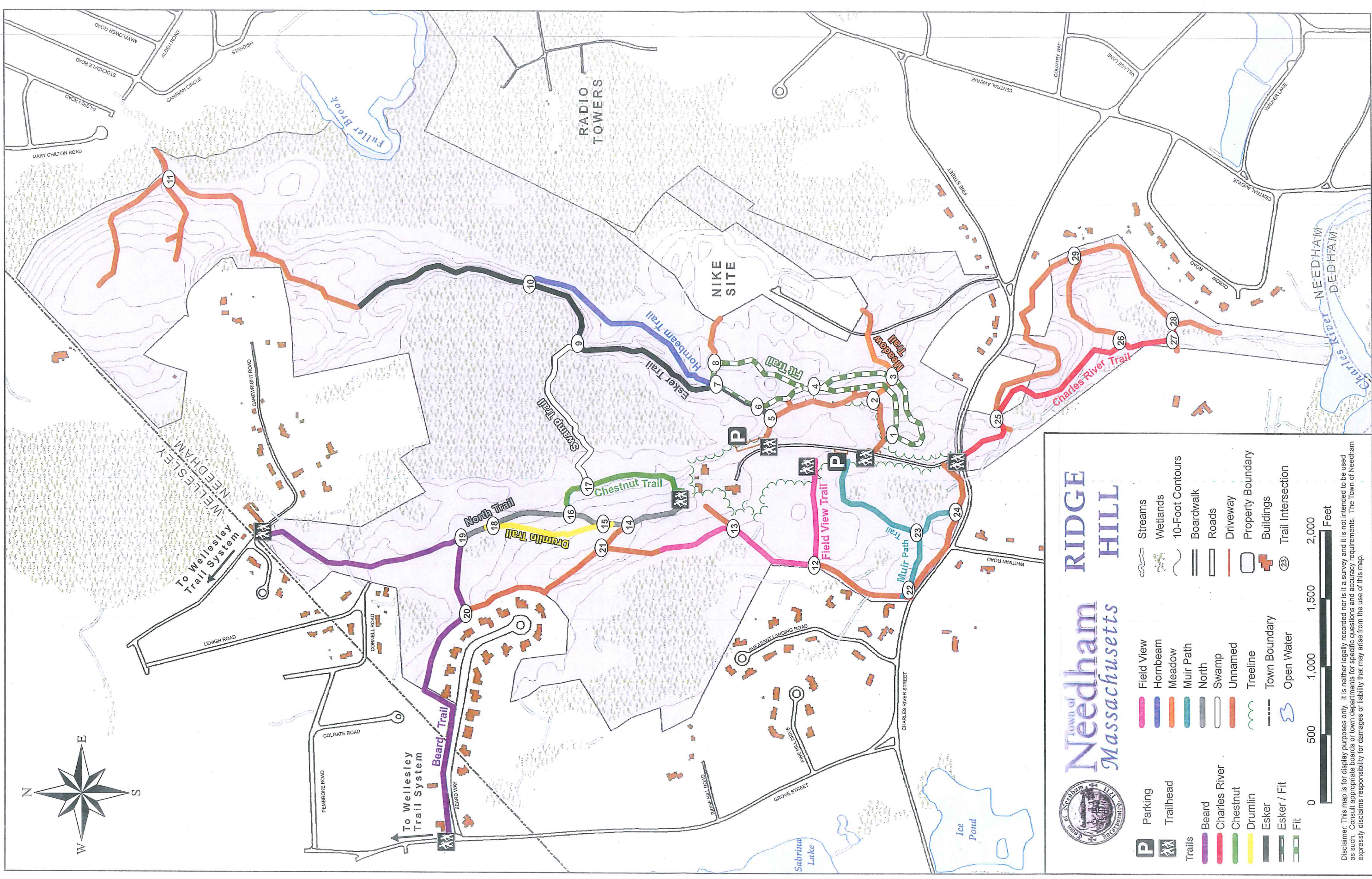
ATTACHMENT 1

SITE LOCATION MAPS

~~~~~







Needham Massachusetts

RIDGE HILL

Trails

- Beard
- Charles River
- Chestnut
- Drumlin
- Esker
- Esker / Fit
- Fit

Other Features

- Parking
- Trailhead
- Field View
- Hornbeam
- Meadow
- Muir Path
- North
- Swamp
- Unnamed
- Treeline
- Town Boundary
- Open Water
- Streams
- Wetlands
- 10-Foot Contours
- Boardwalk
- Roads
- Driveway
- Property Boundary
- Buildings
- Trail Intersection

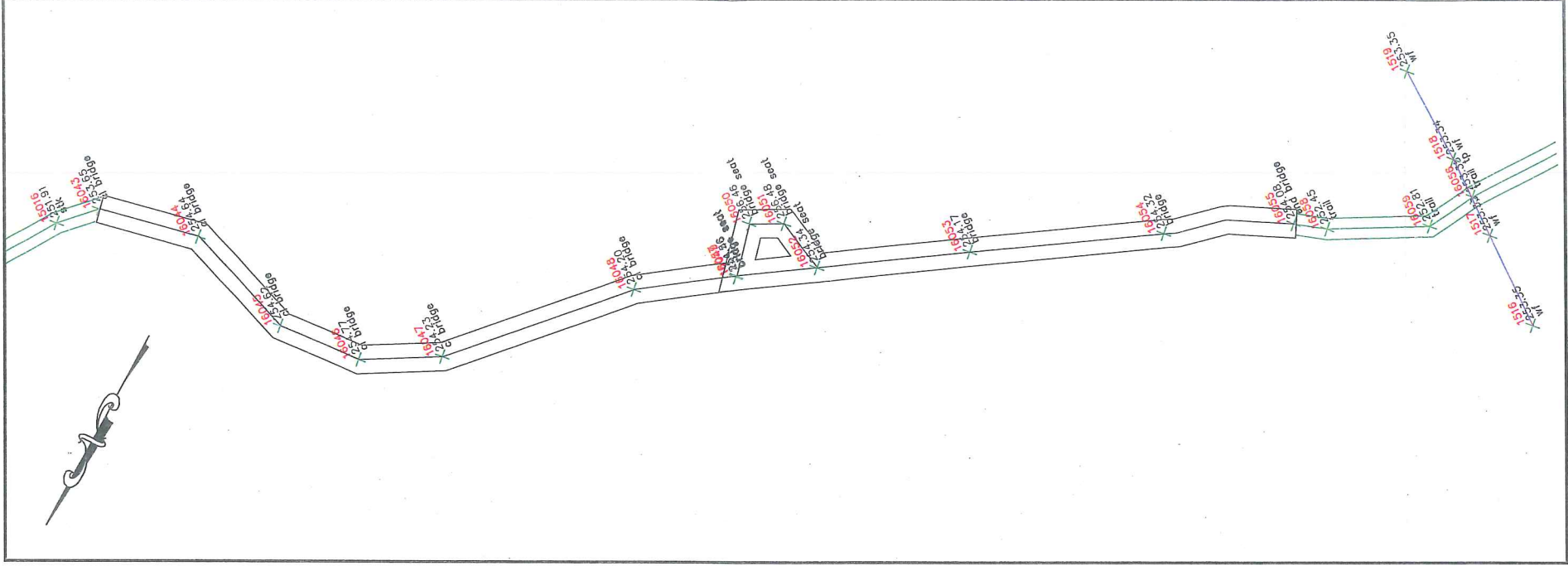
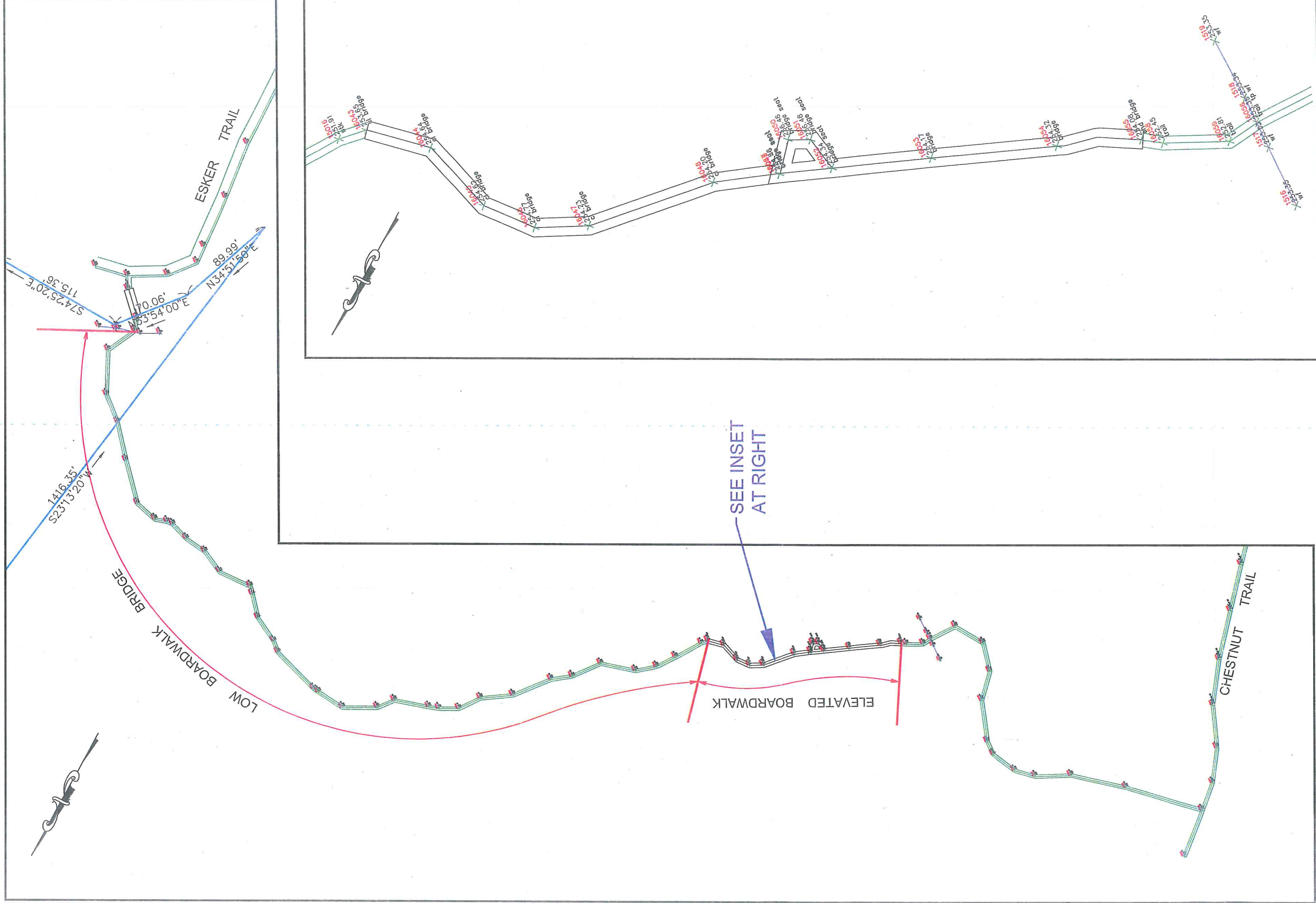
0 500 1,000 1,500 2,000 Feet

Disclaimer: This map is for display purposes only. It is neither legally recorded nor is it a survey and it is not intended to be used as such. Consult appropriate boards or town departments for specific questions and accuracy requirements. The Town of Needham expressly disclaims responsibility for damages or liability that may arise from the use of this map.

ATTACHMENT 2

EXISTING CONDITION SITE PLAN

~~~~~



PLAN VIEW

SCALE: 1" = 40'

INSET BLOW-UP

SCALE: 1" = 10'

EXHIBIT "B"

|                                      |                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|
| Survey<br>CRC/JFZ                    | RIDGE HILL RESERVATION<br>BOARDWALK and BRIDGE SURVEY                                                 |
| Draft<br>TGS                         | SCALE: AS NOTED DATE: AUGUST 18, 2011                                                                 |
| Check<br>DAM/ALD                     | RIDGE HILL CENTER<br>CHARLES RIVER STREET<br>NEEDHAM, MA                                              |
| Job No.<br>RIDGE HILL<br>RESERVATION | Prepared for: PERMANENT PUBLIC BUILDING DEPARTMENT<br>DEPARTMENT OF PUBLIC WORKS<br>NEEDHAM, MA 02492 |
| Sheet<br>1 of 1                      | NEEDHAM DEPARTMENT OF PUBLIC WORKS<br>ENGINEERING DIVISION                                            |
| Dwg. No.                             | 470 Dedham Avenue, Needham, MA 02492<br>(781) 455-1235                                                |





## BEALS + THOMAS

BEALS AND THOMAS, INC.  
Reservoir Corporate Center  
144 Turnpike Road  
Southborough, MA 01772-2104

## MEMORANDUM

T 508.366.0560  
F 508.366.4391  
mail@btiweb.com | www.btiweb.com  
Regional Office: Plymouth, MA

TO: Robert Weidknecht, Beals and Thomas, Inc.

FROM: Christopher Taylor, Beals and Thomas, Inc.

DATE: November 21, 2012

REFERENCE: Peat Probes/Soil Testing  
Swamp Trail, Ridge Hill Reservation  
Needham, Massachusetts  
B+T Project No. 2035.02

### **Purpose:**

The purpose of this memorandum is to outline the findings from the field visit and the peat probes that were conducted along the Swamp Trail in the Ridge Hill Reservation.

### **General Conditions:**

A total of 23 peat probes were conducted along the Swamp Trail. Probe #1 (P-01) through Probe #12 (P-12) were conducted along the proposed elevated boardwalk section of the trail. Probes #13 through #23 were conducted along the eastern section of the trail in the proposed low boardwalk bridge. The thickness of the peat varied across the trail but in general was shallow on the western edge of the trail and gradually got deeper moving to the east. (see the attached plan and table for location and depth of peat)

The material below the peat layer appeared to be bedrock or a very stony soil. No soil sample was able to be collected. Penetration of the peat material was quick and required no turning force but would come to an abrupt stop when the bottom of the peat was reached. The auger which was used to measure the depth of the peat was not able to infiltrate or dig into the material below the peat. No mineral soil material was observed in the auger blades when removed from the hole.

### **Elevated Boardwalk Section:**

Starting at the far western end of the proposed elevated boardwalk four probes were conducted in approximately the first 50 feet of the trail (P-01, P-02, P-11, and P-12) and resulted in a depth of peat around 2-feet. After the first 50 feet, the depth of peat gradually increased approximately over the next 100 feet, from a depth of less than 2 feet to a depth of greater than 10 feet.

Standing water was observed along the far western side of the elevated boardwalk section of the trail where measured peat depths were the shallowest.

### **Low Boardwalk Bridge Section:**

All of the probes conducted in the low boardwalk section of the trail had a deep depth of peat. The minimum depth of peat recorded in the low boardwalk section was 5 feet. 5 of the probes (P-13, P-14, P-16, P-21, and P-22) conducted in this section had a depth of peat greater than 10

Memorandum

Robert Weidknecht

November 21, 2012

Page 2

feet. The full extent of the peat was unrecorded because maximum length of the measuring equipment was 10 feet.

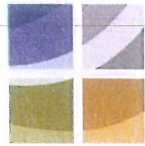
Three probes terminated at an approximate depth of 60 inches (P-08, P-17, and P-21). Much deeper depths of peat were measured on both sides of these probes. It is possible that the depth of peat in these locations is greater than 60 inches, and a small restrictive layer or small stones were encountered at this depth.

**Conclusion:**

A deep depth of peat over 5 feet was measured for the majority of the swamp trail. The only portion of the trail with relatively shallow peat depths was the western 50 feet of trail of the elevated boardwalk section. Special consideration will need to be taken when planning and design the foundation of the boardwalk.

CPT/rew/203502MR001





| Probe # | Depth (Inch) | Location |
|---------|--------------|----------|
| P-01    | 20           | Elevated |
| P-02    | 26           | Elevated |
| P-03    | 28           | Elevated |
| P-04    | 57           | Elevated |
| P-05    | 76           | Elevated |
| P-06    | 115          | Elevated |
| P-07    | >120         | Elevated |
| P-08    | 58*          | Elevated |
| P-09    | 43           | Elevated |
| P-10    | 36           | Elevated |
| P-11    | 19           | Elevated |
| P-12    | 20           | Elevated |
| P-13    | >120         | Low      |
| P-14    | >120         | Low      |
| P-15    | 75           | Low      |
| P-16    | >120         | Low      |
| P-17    | 60*          | Low      |
| P-18    | 96           | Low      |
| P-19    | 109          | Low      |
| P-20    | 60*          | Low      |
| P-21    | >120         | Low      |
| P-22    | >120         | Low      |
| P-23    | 84"          | Low      |

Probes in Order West to East Elevated Boardwalk Section

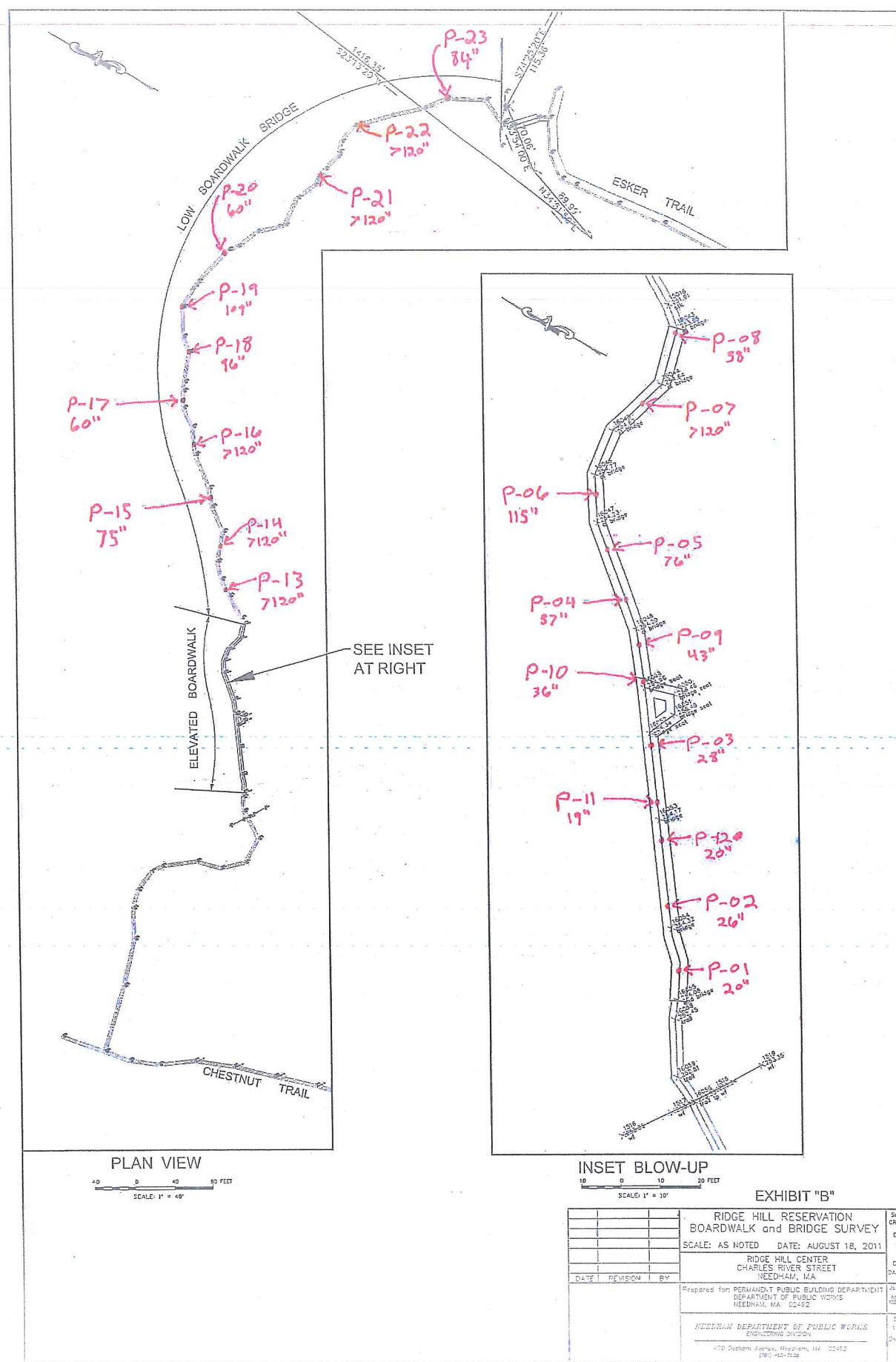
| Probe # | Depth (Inch) |
|---------|--------------|
| P-01    | 20           |
| P-02    | 26           |
| P-12    | 20           |
| P-11    | 19           |
| P-03    | 28           |
| P-10    | 36           |
| P-09    | 43           |
| P-04    | 57           |
| P-05    | 76           |
| P-06    | 115          |
| P-07    | >120         |
| P-08    | 58*          |

\* denotes probes which appeared to be stuck around 60" depth,  
peat may continue below this depth.

Job: 2035.02  
Project: Boardwalk Replacement

Calc. By: CPT  
Date: 11/20/2012

Check By: REW  
Date: 11/20/2012



|                                   |          |    |                                                                                                       |                        |
|-----------------------------------|----------|----|-------------------------------------------------------------------------------------------------------|------------------------|
| INSET BLOW-UP                     |          |    | EXHIBIT "B"                                                                                           | Survey<br>CRC/dft      |
| 10 0 10 20 FEET<br>SCALE 1" = 10' |          |    |                                                                                                       |                        |
|                                   |          |    | RIDGE HILL RESERVATION<br>BOARDWALK and BRIDGE SURVEY                                                 | Draft                  |
|                                   |          |    | SCALE: AS NOTED DATE: AUGUST 18, 2011                                                                 | TGS                    |
|                                   |          |    | RIDGE HILL CENTER<br>CHARLES RIVER STREET<br>NEEDHAM, MA                                              | Check<br>DATE: 8/18/11 |
| DATE                              | REVISION | BY | Prepared for: PERMANENT PUBLIC BUILDING DEPARTMENT<br>DEPARTMENT OF PUBLIC WORKS<br>NEEDHAM, MA 02462 | Rev. No.<br>1 of 1     |
|                                   |          |    | NEEDHAM DEPARTMENT OF PUBLIC WORKS<br>ENGINEERING DIVISION                                            | Sheet<br>1 of 1        |
|                                   |          |    | 470 Southern Avenue, Needham, MA 02462<br>(781) 426-7228                                              | Dep. No.               |



## Soil Map—Norfolk and Suffolk Counties, Massachusetts





MAP LEGEND

- Area of Interest (AOI)

Area of Interest (AOI)
- Soils

Soil Map Units
- Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot
- Special Line Features

Gully

Short Steep Slope

Other
- Political Features

Cities
- Water Features

Streams and Canals
- Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads
- Very Stony Spot


- Wet Spot


- Other



MAP INFORMATION

Map Scale: 1:9,210 if printed on A size (8.5" x 11") sheet.  
The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 19N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Norfolk and Suffolk Counties, Massachusetts  
Survey Area Data: Version 8, Jul 23, 2010

Date(s) aerial images were photographed: 7/10/2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

| Norfolk and Suffolk Counties, Massachusetts (MA616) |                                                                    |              |                |
|-----------------------------------------------------|--------------------------------------------------------------------|--------------|----------------|
| Map Unit Symbol                                     | Map Unit Name                                                      | Acres in AOI | Percent of AOI |
| 51                                                  | Swansea muck, 0 to 1 percent slopes                                | 30.8         | 7.7%           |
| 52                                                  | Freetown muck, 0 to 1 percent slopes                               | 49.9         | 12.4%          |
| 71B                                                 | Ridgebury fine sandy loam, 2 to 8 percent slopes, extremely stony  | 2.3          | 0.6%           |
| 73A                                                 | Whitman fine sandy loam, 0 to 5 percent slopes, extremely stony    | 18.9         | 4.7%           |
| 104C                                                | Hollis-Rock outcrop-Charlton complex, 3 to 15 percent slopes       | 2.3          | 0.6%           |
| 245B                                                | Hinckley sandy loam, 3 to 8 percent slopes                         | 24.5         | 6.1%           |
| 245C                                                | Hinckley sandy loam, 8 to 15 percent slopes                        | 48.1         | 12.0%          |
| 253D                                                | Hinckley loamy sand, 15 to 35 percent slopes                       | 25.4         | 6.3%           |
| 254A                                                | Merrimac fine sandy loam, 0 to 3 percent slopes                    | 9.0          | 2.3%           |
| 254B                                                | Merrimac fine sandy loam, 3 to 8 percent slopes                    | 43.8         | 10.9%          |
| 260B                                                | Sudbury fine sandy loam, 2 to 8 percent slopes                     | 2.9          | 0.7%           |
| 305B                                                | Paxton fine sandy loam, 3 to 8 percent slopes                      | 7.1          | 1.8%           |
| 307B                                                | Paxton fine sandy loam, 3 to 8 percent slopes, extremely stony     | 40.1         | 10.0%          |
| 312B                                                | Woodbridge fine sandy loam, 3 to 8 percent slopes, extremely stony | 67.6         | 16.8%          |
| 420B                                                | Canton fine sandy loam, 3 to 8 percent slopes                      | 8.9          | 2.2%           |
| 420C                                                | Canton fine sandy loam, 8 to 15 percent slopes                     | 1.5          | 0.4%           |
| 422B                                                | Canton fine sandy loam, 3 to 8 percent slopes, extremely stony     | 6.1          | 1.5%           |
| 653                                                 | Udorthents, sandy                                                  | 12.3         | 3.1%           |
| Totals for Area of Interest                         |                                                                    | 401.6        | 100.0%         |

**PREPARED FOR:**

**TOWN OF  
NEEDHAM  
c/o CONSERVATION  
COMMISSION**  
1471 HIGHLAND AVENUE,  
NEEDHAM, MASS. 02492

## NOTES

- 1) THIS PLAN WAS PREPARED FROM AN ACTUAL SURVEY OF THE BEALS ELVA TOTAL STATION ON NOVEMBER 7, 2012
- 2) WETLAND RESERVE AREAS LOCATED BY BEALS AND THOMAS, INC. ON OCTOBER 31, 2012
- 3) WETLAND RESERVE AREA PLANS LOCATED BY BEALS AND THOMAS, INC. ON OCTOBER 31, 2012
- 4) THE PROJECT AREA IS LOCATED WITHIN THE 25-FOOT, 50-FOOT AND 100-FOOT BUFFER ZONES
- 5) ALL ELEVATIONS REFER TO AN ASSUMED DATUM OF 100.00
- 6) BENCHMARK SET: BM-H, 1/4" SET 1 1/2" UP IN 20" PINE TREE AS SHOWN ON PLAN, ELEVATION = 100.00  
BENCHMARK SET: BM-H, 1/4" SET 1 1/2" UP IN 20" PINE TREE AS SHOWN ON PLAN, ELEVATION = 100.00



11/21/2012  
DATE  
*Kenneth Conte*  
KENNETH CONTE, PLS NO. 38033

## LEGEND

SPOT ELEVATION  
TOP OF FOOTING ELEVATION  
BOTTOM OF FOOTING ELEVATION  
BENCHMARK  
TREE

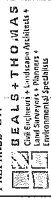
WETLAND VEGETATION BOUNDARY  
BORDERING PLAYGROUND BOUNDARY  
DRAIN PLAY/BOUNDARY OF BANK  
MINOR CONTOUR  
MAJOR CONTOUR  
EDGE OF WATER  
CENTER OF TRAIL  
BUFFER ZONE

0 10 20 30

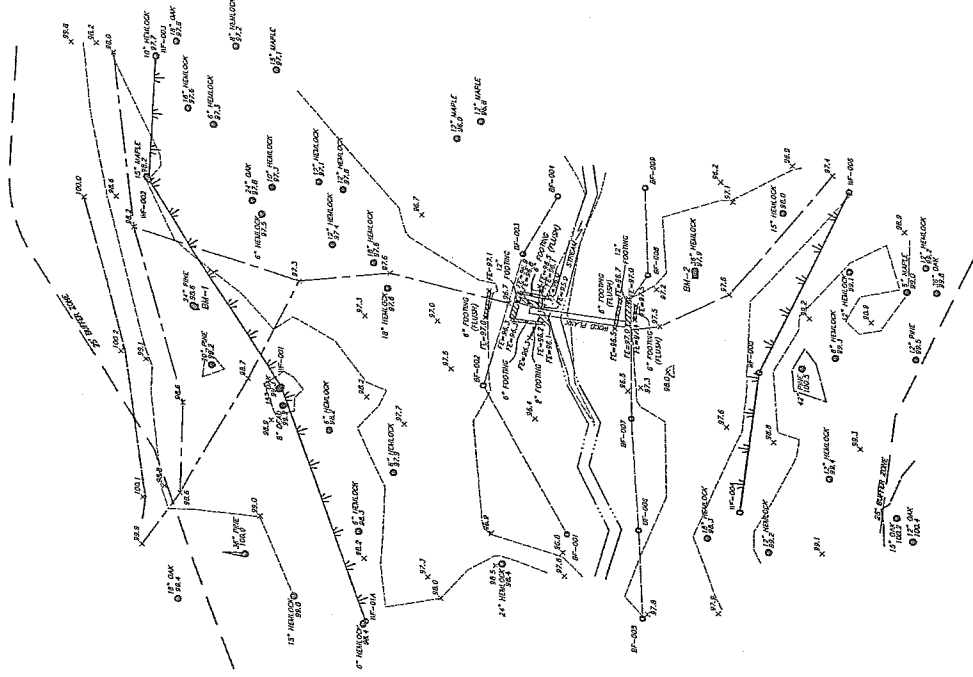
TOPOGRAPHIC PLAN

CHARLES RIVER  
TRAIL  
NEEDHAM, MASS.  
(NORFOLK COUNTY)

|              |                    |
|--------------|--------------------|
| PREPARED BY: | (NAME AND ADDRESS) |
|--------------|--------------------|



**BEALS AND THOMAS, INC.**  
Reservists Corporate Center  
144 Terrace Road  
Southborough, Massachusetts 01772-2104  
T 508.368.0560 | [www.btiweb.com](http://www.btiweb.com)



APPROXIMATE NORTH



|                                           |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
|-------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------|----------------|--------------------------------------|---------------------------------------------------------------------------------------|
| (603) 437-1610                            |      | New Hampshire Boring, Inc.<br>P.O. Box 165<br>Derry, NH 03038<br>E-Mail: <a href="mailto:nhb@nhboring">nhb@nhboring</a> |     |                                 |                | Fax: (603) 437-0034                  |                                                                                       |
| Boring # B-1                              |      | Project: Tower Engineering Professionals, Inc.<br>Faltin Drive USCC #964321                                             |     |                                 |                | Project # NHB 113672                 |                                                                                       |
| Project Address: 463 Charles River Street |      | City: Needham                                                                                                           |     | State: MA                       |                | Zip:                                 |                                                                                       |
| Date Start: 05-03-13                      |      | Date End: 05-03-13                                                                                                      |     | Location: See Plan              |                |                                      |                                                                                       |
| Casing: HW<br>Type:<br>Hammer:            |      | Sampler:<br>S/S<br>140 lbs.                                                                                             |     | Casing: 4" ID<br>Size:<br>Fall: |                | Sampler:<br>1-3/8 in. I.D.<br>30 in. |                                                                                       |
| GROUNDWATER OBSERVATION                   |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| Date:<br>5-3-13                           |      | Depth:                                                                                                                  |     | Casing:                         |                | Stabilization Period                 |                                                                                       |
| DP                                        | S./# | DEPTH                                                                                                                   | PEN | REC                             | BLOWS/6"       | S/C                                  | SAMPLE DESCRIPTION                                                                    |
| -                                         | S-1  | 0' - 2'                                                                                                                 | 24" | 8"                              | WOH-12-7<br>11 | 2'                                   | Wet, very loose, black PEAT.                                                          |
| -                                         | S-2  | 2' - 4'                                                                                                                 | 24" | 16"                             | 12-48-33-40    |                                      | Wet, very dense, brown, FINE TO COARSE SAND AND GRAVEL, some inorganic silt, (Till.). |
| 2'6"                                      |      |                                                                                                                         |     |                                 |                |                                      | 4'                                                                                    |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| 5'0"                                      |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| 7'6"                                      |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| 10'0"                                     |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| 15'0"                                     |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| 20'0"                                     |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| -                                         |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| Drillers. Roger Burne                     |      | Helper: Peter Labossiere (*)                                                                                            |     | Inspector:                      |                |                                      |                                                                                       |
| Remarks: (*) Thomas Garside Jr.           |      |                                                                                                                         |     |                                 |                |                                      |                                                                                       |
| S/#: Sample                               |      | PEN: Penetration                                                                                                        |     | REC: Recovery                   |                | S/C: Strata Change                   |                                                                                       |

|                                           |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
|-------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------|------------|--------------------------------------|-----------------------------------------------------------------------------------------|
| (603) 437-1610                            |      | New Hampshire Boring, Inc.<br>P.O. Box 165<br>Derry, NH 03038<br>E-Mail: <a href="mailto:nhb@nhboring">nhb@nhboring</a> |     |                                 |            | Fax: (603) 437-0034                  |                                                                                         |
| Boring # B-1A                             |      | Project: Tower Engineering Professionals, Inc.<br>Faltin Drive USCC #964321                                             |     |                                 |            | Project # NHB 113672                 |                                                                                         |
| Project Address: 463 Charles River Street |      | City: Needham                                                                                                           |     | State: MA                       |            | Zip:                                 |                                                                                         |
| Date Start: 05-03-13                      |      | Date End: 05-03-13                                                                                                      |     | Location: See Plan              |            |                                      |                                                                                         |
| Casing: HW<br>Type:<br>Hammer:            |      | Sampler:<br>S/S<br>140 lbs.                                                                                             |     | Casing: 4" ID<br>Size:<br>Fall: |            | Sampler:<br>1-3/8 in. I.D.<br>30 in. |                                                                                         |
| GROUNDWATER OBSERVATION                   |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| Date:<br>5-3-13                           |      | Depth:                                                                                                                  |     | Casing:                         |            | Stabilization Period                 |                                                                                         |
| DP                                        | S./# | DEPTH                                                                                                                   | PEN | REC                             | BLOWS/6"   | S/C                                  | SAMPLE DESCRIPTION                                                                      |
| -                                         | S-1  | 0' - 2'                                                                                                                 | 24" | 6                               | 3-1-2-4    |                                      | Wet, very soft, black/brown, PEAT.                                                      |
| -                                         |      |                                                                                                                         |     |                                 |            | 2'                                   |                                                                                         |
| -                                         | S-2  | 2' - 4'                                                                                                                 | 24" | 14"                             | 5-26-18-24 |                                      | Wet, dense, brown, brown, FINE TO COARSE SAND AND GRAVEL, some inorganic silt, (Till.). |
| 2'6"                                      |      |                                                                                                                         |     |                                 |            | 4'                                   |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      | Bottom of Exploration = 4'                                                              |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| 5'0"                                      |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| 7'6"                                      |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| 10'0"                                     |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| 15'0"                                     |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| 20'0"                                     |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| -                                         |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| Drillers. Roger Burne                     |      | Helper: Peter Labossiere (*)                                                                                            |     |                                 | Inspector: |                                      |                                                                                         |
| Remarks: (*)Thomas Garside Jr.            |      |                                                                                                                         |     |                                 |            |                                      |                                                                                         |
| S/#: Sample                               |      | PEN: Penetration                                                                                                        |     | REC: Recovery                   |            | S/C: Strata Change                   |                                                                                         |

|                                           |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
|-------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------|-------------|--------------------------------------|--------------------------------------------------------------------------------------|-----------------------------|
| (603) 437-1610                            |      | New Hampshire Boring, Inc.<br>P.O. Box 165<br>Derry, NH 03038<br>E-Mail: <a href="mailto:nhb@nhboring">nhb@nhboring</a> |     |                                 |             | Fax: (603) 437-0034                  |                                                                                      |                             |
| Boring # B-3                              |      | Project: Tower Engineering Professionals, Inc.<br>Faltin Drive USCC #964321                                             |     |                                 |             | Project # NHB 113672                 |                                                                                      |                             |
| Project Address: 463 Charles River Street |      | City: Needham                                                                                                           |     | State: MA                       |             | Zip:                                 |                                                                                      |                             |
| Date Start: 05-03-13                      |      | Date End: 05-03-13                                                                                                      |     | Location: See Plan              |             |                                      |                                                                                      |                             |
| Casing: HW<br>Type:<br>Hammer:            |      | Sampler:<br>S/S<br>140 lbs.                                                                                             |     | Casing: 4" ID<br>Size:<br>Fall: |             | Sampler:<br>1-3/8 in. I.D.<br>30 in. |                                                                                      |                             |
| GROUNDWATER OBSERVATION                   |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| Date:<br>5-3-13                           |      | Depth:                                                                                                                  |     | Casing:                         |             | Stabilization Period                 |                                                                                      |                             |
| DP                                        | S./# | DEPTH                                                                                                                   | PEN | REC                             | BLOWS/6"    | S/C                                  | SAMPLE DESCRIPTION                                                                   |                             |
| -                                         | S-1  | 0' - 2'                                                                                                                 | 24" | 2"                              | 1/12"       | 2'                                   | Wet, very soft, black PEAT.                                                          |                             |
| -                                         |      |                                                                                                                         |     |                                 | 2/12"       |                                      |                                                                                      |                             |
| -                                         | S-2  | 2' - 4'                                                                                                                 | 24" | 0"                              | WOH/24"     |                                      | No Recovery, (very loose)                                                            |                             |
| 2'6"                                      |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         | S-3  | 4' - 6'                                                                                                                 | 24" | 14"                             | WOH/24"     |                                      | Wet, very loose, black PEAT.                                                         |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| 5'0"                                      |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         | S-4  | 6' - 8'                                                                                                                 | 24" | 18"                             | WOH/24"     |                                      | Wet, very loose, black PEAT.                                                         |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| 7'6"                                      |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         | S-5  | 8' - 10'                                                                                                                | 24" | 24"                             | WOH/18"     | 10'                                  | Wet, very loose, black PEAT.                                                         |                             |
| -                                         |      |                                                                                                                         |     |                                 | 1-6         |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| 10'0"                                     | S-6  | 10' - 12'                                                                                                               | 24" | 20"                             | 6-11-8-7    |                                      | Wet, medium dense, gray, FINE TO COARSE SAND, some fine gravel, some inorganic silt. |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         | S-7  | 12' - 14'                                                                                                               | 24" | 22"                             | 5-7-13-16   |                                      | Wet, medium dense, gray, FINE SAND, trace coarse gravel.                             |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         | S-8  | 14' - 16'                                                                                                               | 24" | 10"                             | 19-19-17-17 | 16'                                  | Wet, medium dense, gray, FINE SAND.                                                  |                             |
| 15'0"                                     |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      | Bottom of Exploration = 16' |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| 20'0"                                     |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| -                                         |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| Drillers. Roger Burne                     |      | Helper: Peter Labossiere (*)                                                                                            |     |                                 |             | Inspector:                           |                                                                                      |                             |
| Remarks: (*) Thomas Garside Jr.           |      |                                                                                                                         |     |                                 |             |                                      |                                                                                      |                             |
| S/#: Sample                               |      | PEN: Penetration                                                                                                        |     | REC: Recovery                   |             | S/C: Strata Change                   |                                                                                      |                             |



|                                           |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
|-------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|---------------|--------------------------------------|-------------------------------------------------------------------------------|
| (603) 437-1610                            |        | New Hampshire Boring, Inc.<br>P.O. Box 165<br>Derry, NH 03038<br>E-Mail: <a href="mailto:nhb@nhboring">nhb@nhboring</a> |                                        |                                 |               | Fax: (603) 437-0034                  |                                                                               |
| Boring # B-4                              |        | Project: Tower Engineering Professionals, Inc.<br>Faltin Drive USCC #964321                                             |                                        |                                 |               | Project # NHB 113672                 |                                                                               |
| Project Address: 463 Charles River Street |        | City: Needham                                                                                                           |                                        | State: MA                       |               | Zip:                                 |                                                                               |
| Date Start: 05-03-13                      |        | Date End: 05-03-13                                                                                                      |                                        | Location: See Plan              |               |                                      |                                                                               |
| Casing: HW<br>Type:<br>Hammer:            |        | Sampler:<br>S/S<br>140 lbs.                                                                                             |                                        | Casing: 4" ID<br>Size:<br>Fall: |               | Sampler:<br>1-3/8 in. I.D.<br>30 in. |                                                                               |
| GROUNDWATER OBSERVATION                   |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| Date:<br>5-3-13                           | Depth: |                                                                                                                         |                                        | Casing:                         |               | Stabilization Period                 |                                                                               |
| DP                                        | S./#   | DEPTH                                                                                                                   | PEN                                    | REC                             | BLOWS/6"      | S/C                                  | SAMPLE DESCRIPTION                                                            |
| -                                         | S-1    | 0' - 2'                                                                                                                 | 24"                                    | 2"                              | WOH/24"       |                                      | Wet, very loose, black PEAT.                                                  |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         | S-2    | 2' - 4'                                                                                                                 | 24"                                    | 12"                             | WOH-1-1-1     |                                      | Wet, very loose, black PEAT.                                                  |
| 2'6"                                      |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         | S-3    | 4' - 6'                                                                                                                 | 24"                                    | 10"                             | WOH/18"       |                                      | Wet, very loose, black PEAT.                                                  |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| 5'0"                                      |        |                                                                                                                         |                                        |                                 |               | 6'                                   |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         | S-4    | 6' - 8'                                                                                                                 | 24"                                    | 20"                             | 1-12-14-14    |                                      | Wet, medium dense, gray, FINE TO COARSE SAND AND GRAVEL.                      |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| 7'6"                                      |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         | S-5    | 8' - 10'                                                                                                                | 24"                                    | 24"                             | 13-16-11-16   |                                      | Wet, medium dense, gray, FINE SAND AND GRAVEL.                                |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               | 10'                                  |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| 10'0"                                     | S-6    | 10' - 12'                                                                                                               | 24"                                    | 24"                             | 12-25-15-13   |                                      | Wet, dense gray, FINE TO COARSE SAND AND GRAVEL, some inorganic slit, (Till.) |
| -                                         |        |                                                                                                                         |                                        |                                 |               | 12'                                  |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      | Bottom of Exploration = 12'                                                   |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| 15'0"                                     |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| 20'0"                                     |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| -                                         |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| Drillers. Roger Burne                     |        |                                                                                                                         | Helper: Peter Labossiere (*)<br>Palmer |                                 |               | Inspector: None                      |                                                                               |
| Remarks: (*) Thomas Garside Jr.           |        |                                                                                                                         |                                        |                                 |               |                                      |                                                                               |
| S/#: Sample                               |        |                                                                                                                         | PEN: Penetration                       |                                 | REC: Recovery |                                      | S/C: Strata Change                                                            |

## Trails Policy

Let me make my position clear.

Two years ago the town sent out questionnaires, and improvement of the town's trails was the most mentioned response. What might the respondents have meant?

I think they were concerned with trash on the trails. We have made a good step forward on that problem with the volunteer trail stewards.

I think they were concerned with unmarked and confusing trail signs. We have made progress with that complaint with a trail number system, targets, and a trail map on line. My sense is that few kiosks have been built and that further construction and management of them may be lagging.

Finally I think they wanted a few broad, smooth gradual slope paths that they could enjoy when walking and chatting with their friends, children and exercising dogs. I don't think they were concerned with adding new single file trails.

Wellesley has the trail our respondents wanted. It is the Fuller Brook path and it is very popular. Also its Waban Arches trail is wide and level, and Elm Bank's road is very popular as a walk. Dover has the wide path maintained by the Trustees of Reservations on Noanet hill and lookout. Near us we have such a place at Cutler Lake in the lakeside circuit there. It is Needham's most popular walk, and its surface even allows strollers. These broad easy slope paths have several advantages to support their popularity. Their width helps protect the walkers from deer ticks. The grades and gravel underpinnings can support fire equipment in the event of fire.

Let's now review how the town might respond to the citizen wishes. We have taken a hit at Rosemary Lake and any restoration there awaits the pool decision.

I am not at all clear what experience for the public is planned for the Eastman trail behind Newman School except the first part is for the children's science study.

The Town Forest main trail is deeply cut by runoff and some winter tracks. Much of it needs simple grading and water management. The town's finest scenic outlook on the trail is overgrown and neglected. Were stairs to it built at the High Rock overlook, the outlook cleared, and the main trail restored I am confident it would be a very popular walk.

Ridge Hill has many trails. I don't believe the Commission has set aside one trail to be the family strolling trail. I see no reason why it could not. I know the Esker Trail is very broad and dry and could be part of such a path. The swamp boardwalk leading to the Chestnut Trail might make a very

nice circuit. There is a problem of the steep side of the esker that must be managed somehow and I don't know the Chestnut section.

To summarize: This committee was sold to the town on the promise that it would encourage innovation beyond ordinary town practice. Surely the Town Hall restoration met that goal. Currently the town's Trials Plan calls only for narrow, no gravel trails.

To respond appropriately to the Conservation Commission's request for trail improvements I believe we need a policy that establishes a few locations for broad family scenic walkways, ideally stroller friendly. If the Conservation Commission returned to us later with a policy statement and plan for one good family trail at Ridge Hill then I think we could make a fine presentation for the May Town Meeting.

I am not trying to tell the Commission how to design all its trails; what I am seeking is a policy upon which I can evaluate what the Commission requests.

Sam Bass Warner

September 3, 2013



CPC USE ONLY:  
Application # 2013-01  
Qualifies: \_\_\_\_\_  
Does not qualify: \_\_\_\_\_

INITIAL ELIGIBILITY PROJECT APPLICATION FORM

DUE BY DECEMBER 1

TOWN OF NEEDHAM  
COMMUNITY PRESERVATION COMMITTEE  
c/o Park & Recreation Department  
Public Services Administration Building  
500 Dedham Avenue, Needham, MA 02492  
www.needhamma.gov/CPC

1. Applicant: Board of Selectmen/Town Manager Submission Date: 9/3/13

2. Applicant's Address, Phone Number and Email:

1471 Highland Ave Avenue  
Needham, MA 02492  
Contact Name: Kate Fitzpatrick

3. Purpose:  
(Please select all that apply)

☐ Open Space

☐ Community Housing

☐ Historic Preservation

☒ Recreation

4. Project Name: Rail Trail Insurance

5. Project Location/Address/Ownership (Control):

The leased railroad right-of-way between Chestnut Street/Needham Junction and the Needham/Dover line (Charles River).

6. Amount Requested: \$ 45,000

The Town is eligible to apply for a grant through the Commonwealth that would reimburse the CPC for 50% of the final cost.

7. Estimated Total Project Cost (If Different): \$

8. Critical Dates: (If Applicable) November, 2013

The Town will seek authorization to lease the right of way at the November Special Town Meeting.

CPC USE ONLY:  
Application # 2014-2  
Qualifies: \_\_\_\_\_  
Does not qualify: \_\_\_\_\_

Project Name: Rail Trail Insurance

9. Project Summary: In 100 words or less provide a brief summary of the project:

The Town Manager is negotiating a 99 year lease agreement with the MBTA for use of an unused rail right-of-way to be used as a shared use recreation trail from Needham Junction to the Needham/Dover Town line. The Town has coordinated the study of this project with the non-profit Bay Colony Rail Trail Association (BCRTA). As part of the lease agreement, the MBTA requires the Town to purchase a one-time environmental insurance policy that covers a 5 year period. The Commonwealth of Massachusetts has a grant program that would reimburse the Town for 50% of the purchase price, all of which would be returned to the CPA Fund, along with any unspent funds.

10. Community Need: In 100 words or less provide a brief statement of the need for and the benefits to the community.

The rail trail will create a wide, level-surfaced path for use by residents of all ages. Subject to negotiations with the MBTA, the trail will start at Chestnut Street or at Rock Street. The trail will connect residents to trail systems at the Town Forest, Farley Pond property, MA Division of Conservation and Recreation's Red Wing Bay, and Trustees of Reservation's Charles River Peninsula. BCRTA is in the early stages of raising funds for the creation of the trail. BCRTA has indicated that a full campaign will be most successful once the Town holds the lease.

*Note: This application enables the Community Preservation Committee to review the request to assess eligibility. You shall be notified by January 1 of your eligibility. If eligible you will be requested to supply additional information by February 1.*