



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Acton

City/Town

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



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

Acton Arboretum - 2 Taylor Rd. & 47 Wood Lane

Acton

01720

b. City/Town

c. Zip Code

Latitude and Longitude:

d. Latitude

e. Longitude

F-3A

76

f. Assessors Map/Plat Number

g. Parcel /Lot Number

2. Applicant:

Tom

Tidman

a. First Name

b. Last Name

Natural Resources Department, Town of Acton

c. Organization

472 Main Street

d. Street Address

Acton

MA

01720

e. City/Town

f. State

g. Zip Code

978-929-6634

ttidman@acton-ma.gov

h. Phone Number

i. Fax Number

j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Tom

Tidman

a. First Name

b. Last Name

Natural Resources Dept., Town of Acton

c. Company

472 Main Street

d. Street Address

Acton

MA

01720

e. City/Town

f. State

g. Zip Code

978-929-6634

ttidman@acton-ma.gov

h. Phone Number

i. Fax Number

j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

Municipal Project

a. Total Fee Paid

b. State Fee Paid

c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

- a. replace and expand existin Arboretum parking lot; b. Replace bog boardwalk

7a. Project Type Checklist:

- | | |
|---|---|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (e.g., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation | 10. <input checked="" type="checkbox"/> Other |

7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. Yes No If yes, describe which limited project applies to this project:

10.53(3)(j) "...maintenance of footbridges..."

2. Limited Project

8. Property recorded at the Registry of Deeds for:

Middlesex South

a. County

13361 & 13085

c. Book

b. Certificate # (if registered land)

526 & 558

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	~1400 sq. ft. (replace existing boardwalk)	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) _____	
2. Width of Riverfront Area (check one):		
<input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only		
<input type="checkbox"/> 100 ft. - New agricultural projects only		
<input type="checkbox"/> 200 ft. - All other projects		
3. Total area of Riverfront Area on the site of the proposed project:		_____ square feet
4. Proposed alteration of the Riverfront Area:		
a. total square feet _____	b. square feet within 100 ft. _____	c. square feet between 100 ft. and 200 ft. _____
5. Has an alternatives analysis been done and is it attached to this NOI?		<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Was the lot where the activity is proposed created prior to August 1, 1996?		<input type="checkbox"/> Yes <input type="checkbox"/> No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet _____ 2. cubic yards dredged _____	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet _____	2. cubic yards beach nourishment _____
e. <input type="checkbox"/> Coastal Dunes	1. square feet _____	2. cubic yards dune nourishment _____



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet _____	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet _____	
h. <input type="checkbox"/> Salt Marshes	1. square feet _____	2. sq ft restoration, rehab., creation _____
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet _____	
	2. cubic yards dredged _____	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet _____	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged _____	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet _____	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____ a. square feet of BVW	_____ b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____ a. number of new stream crossings	_____ b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/online_viewer.htm.

a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
Route 135, North Drive
Westborough, MA 01581**

October 2008

b. Date of map



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C. Other Applicable Standards and Requirements (cont'd)

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.1.d, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

1. c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area

_____ percentage/acreage

(b) outside Resource Area

_____ percentage/acreage

2. Assessor's Map or right-of-way plan of site

3. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work ***

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

(c) MESA filing fee (fee information available at: http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_fee_schedule.htm).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the Following

1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhosp/regulatory_review/ mesa/ mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing.

_____ a. NHESP Tracking #

_____ b. Date submitted to NHESP

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <http://www.mass.gov/dfwele/dfw/nhosp/nhosp.htm>, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
2. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a. Not applicable – project is in inland resource area only
- b. Yes No If yes, include proof of mailing or hand delivery of NOI to either:
- | | |
|---|--|
| South Shore - Cohasset to Rhode Island, and the Cape & Islands: | North Shore - Hull to New Hampshire: |
| Division of Marine Fisheries - Southeast Marine Fisheries Station
Attn: Environmental Reviewer
1213 Purchase Street – 3rd Floor
New Bedford, MA 02740-6694 | Division of Marine Fisheries - North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930 |

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
-
4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
- Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 - A portion of the site constitutes redevelopment
 - Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
- Single-family house

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Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.



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C. Other Applicable Standards and Requirements (cont'd)

- 2. Emergency road repair
- 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

a. Acton Arboretum Parking Lot Expansion b. Bog Boardwalk Replacement Plan

a. Plan Title

Paul Campbell

b. Prepared By

7/25/2014

d. Final Revision Date

c. Signed and Stamped by

1" = 30'

e. Scale

f. Additional Plan or Document Title

g. Date

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.



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E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

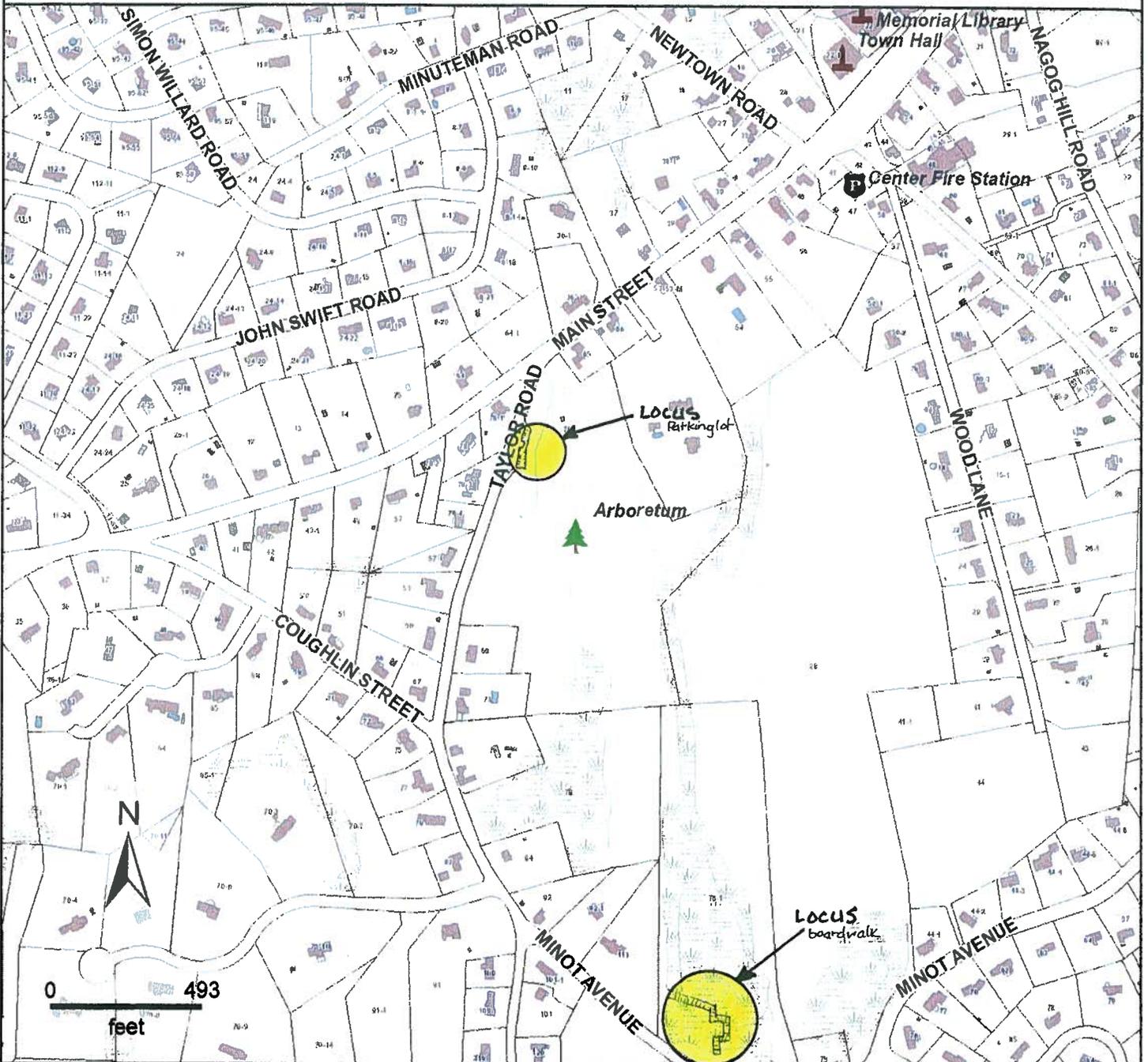
One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

Acton Arboretum locus Map



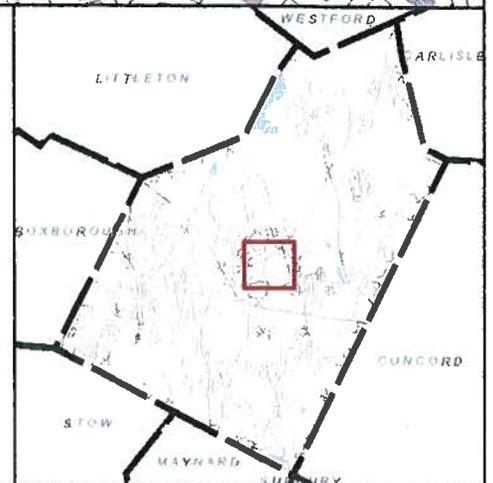
Property Information

Property ID
Location

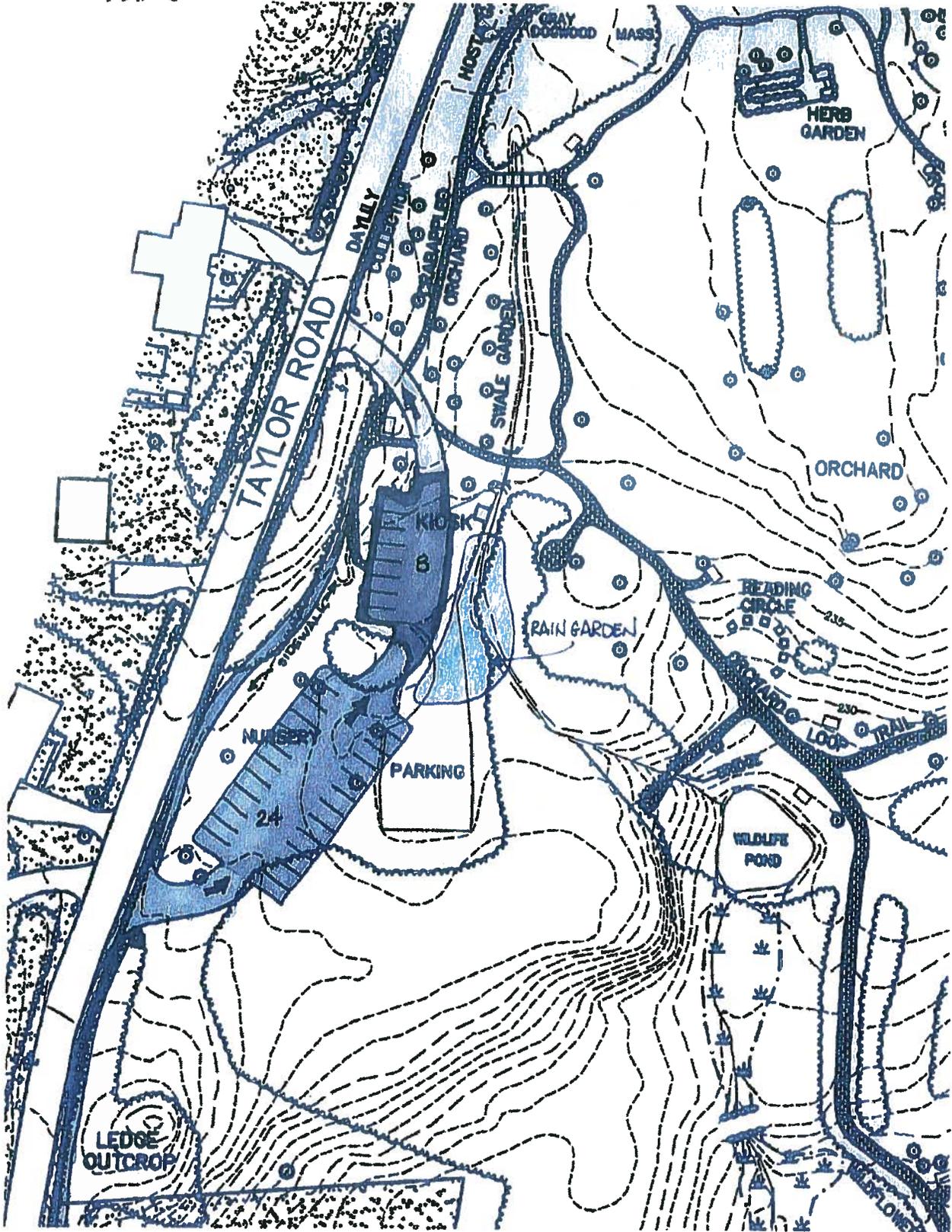


MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

This data set/map is for planning purposes only and should not be used for larger scale analysis. The Town of Acton shall not be held liable for any use of the data or images shown on this map, nor is any warranty of accuracy expressed. All uses of this data set/map are subject to field verification.



PARKING LOT DESIGN - OPTION 1.

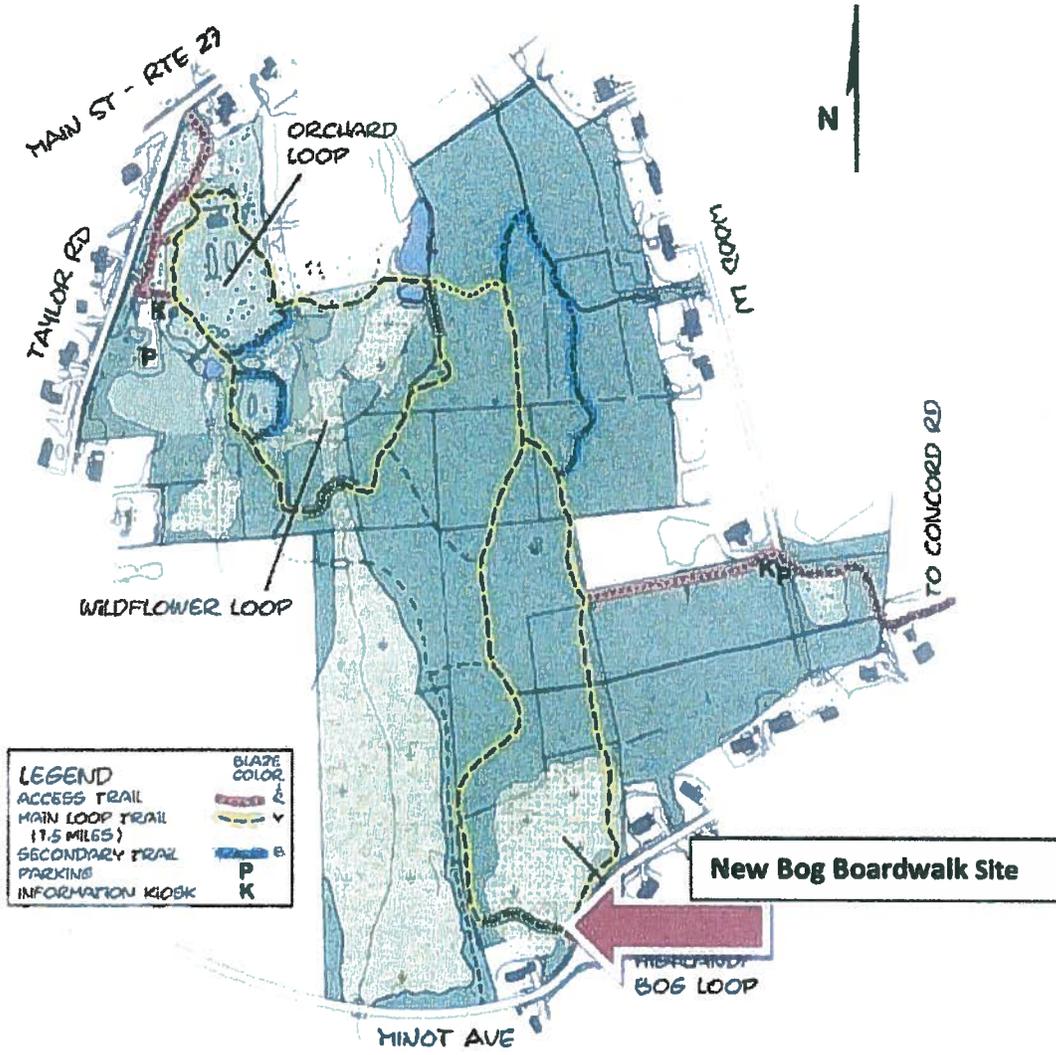


Rain Garden (prices from Bigelow Nurseries 2013) each	quantity	total \$
Asclepias incarnata - Swamp milkweed	\$5.00 ea 10	50
Carex pendula - Drooping Sedge	\$6.00 ea 10	60
Cephalanthus occidentalis – Buttonbush 2-3 ft.	\$15.00 ea 10	150
Eupatorium maculatum - Spotted Joe-pye Weed	\$5.00 ea 10	50
Lobelia cardinalis - Cardinal Flower	\$5.00 ea 10	50
Osmunda cinnamomea - Cinnamon Fern	\$6.00 ea 10	60
Viburnum dentatum – Arrowwood 2-3 ft.	\$18.00 ea 10	180
Osmunda regalis - Royal Fern	\$5.00 ea 10	50
Lobelia siphilitica - Great Blue Lobelia	\$5.00 ea 10	50
Lindera benzoin – Spicebush 2-3 ft.	\$15.00 ea 10	150
Fothergilla gardenii Dwarf - Fothergilla 2-3 ft.	\$27.00 ea 10	270
Chelone glabra – Turtlehead	\$6.00 ea 10	60
Carex stricta - Tussock Sedge	\$6.00 ea 10	60
Athyrium filix-femina – Ladyfern	\$6.00 ea 10	60

Total plants 140

Total cost plantings \$1,300

ACTON ARBORETUM



Concept Photos:



Boardwalk with viewing platform



boardwalk with paved ramp connection

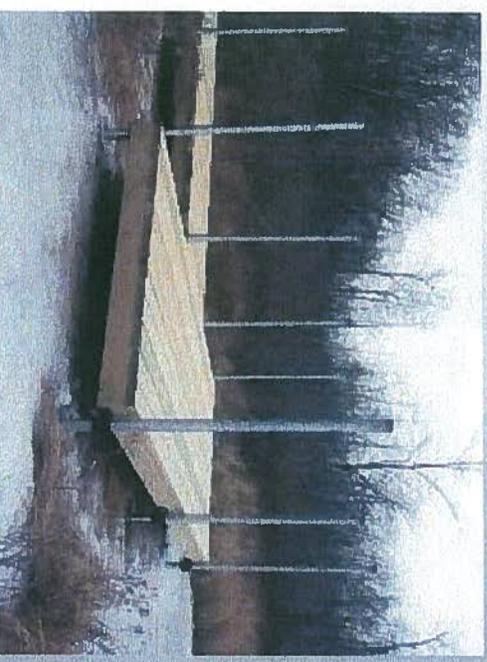


Fibergrate boardwalk with handrails and toe rails.



Fibergrate boardwalk example.

Existing Grassy Pond Conservation Land, Acton Boardwalk and Viewing Platform

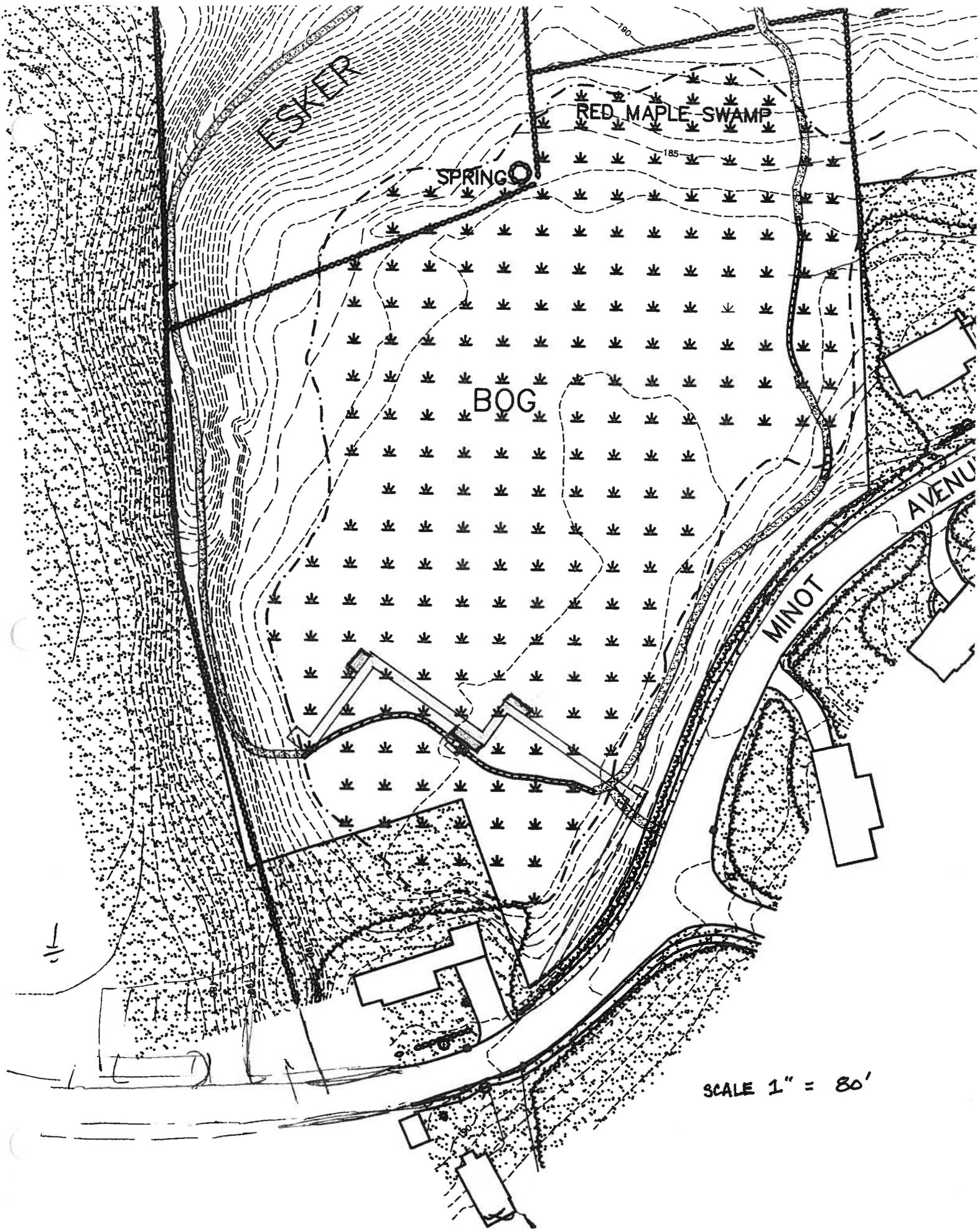


Our prototype



COREY, DO YOU THINK IT WOULD BE POSSIBLE TO BUILD A HANDICAP PARKING SPACE IN THIS LOCATION?

PROPOSED RAMP



LUXER RIVER

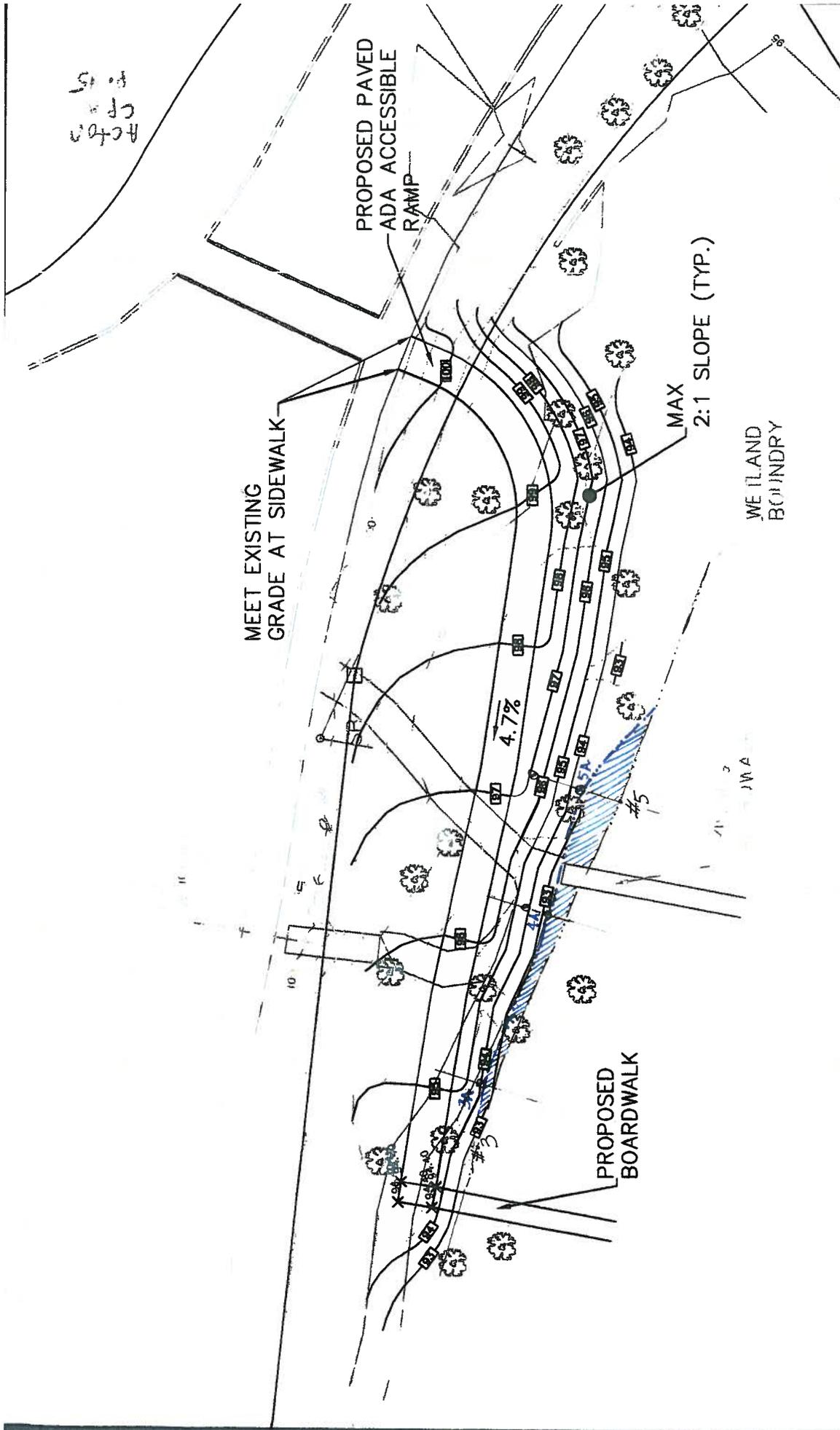
RED MAPLE SWAMP

SPRING

BOG

MINOT AVENUE

SCALE 1" = 80'



SURVEY: PC/QRP	TOWN OF ACTON ENGINEERING DEPARTMENT	
DESIGN: PC	ACTON ARBORETUM BOARDWALK	
DRAFTING: QRP		
CHECKED: PC	PROPOSED BOARDWALK sidewalk ramp	
SCALE: 1" = 20'	DRAWING NO: 1	DATE: 11/04/2013

Decking Material:

Safe-T-Span® Pultruded Gratings made by Fibergrate, Inc.



The following information was obtained from the company website, www.fibergrate.com.

Fibergrate began manufacturing in 1966. In 1996 it was acquired by RPM International Inc. a 4 billion dollar corporation.

Grating for applications where wide support spans are required

- Corrosion Resistant
- Slip Resistant
- Fire Retardant
- High Strength-to-Weight Ratio
- Non-Conductive
- Low Installation Cost
- Long Service Life
- Superior Ergonomics

Fibergrate's pultruded gratings are manufactured with a high percentage of glass, providing durability and an extremely high unidirectional strength and stiffness. Due to its exceptional stiffness, Safe-T-Span can be used with confidence in applications where wide support spans are required.

Fibergrate Composite Structures consistently exceeds the mark of excellence set forth by safety and regulation organizations and has earned certification and approval for many of its products. All Fibergrate's manufacturing facilities are ISO 9001:2008 certified. Some of Fibergrate's other certifications include the following Approvals and Regulatory Standards:

- American Bureau of Shipping (ABS) Type Approval
- Det Norske Veritas (DNV) Type Approval
- US Coast Guard (USCG) Level 2 Approval
- USDA Approvable
- City of Los Angeles (LARR)
- New York City Transit Authority (NYCTA) Approval
- Chicago Transit Authority (CTA) Approval
- Association of American Railroads (AAR)
- OSHA, IBC, UBC and ADA

Industry Memberships
International Association of
Amusement Parks and Attractions
Certifications

Fibergrate's products are designed to comply with the regulations of many internationally recognized safety organizations. These products have undergone extensive independent testing and received numerous certifications, approvals and authorizations including the following:

ADA Compliant

- **Rigidex® II Moltruded® Grating**
- **Pultruded Grating - T2510, T2515, T1210, T1215, I4010, I4015, T3320**

Safe-T-Span® Pultruded Grating

- Superior Corrosion Resistance Compared to Metal Gratings
- High Unidirectional Strength and Stiffness for Longer Spans
- Superior Slip Resistance (with grit top)
- Aqua Grate Pultruded Grating is Barefoot Friendly
- Light Gray Color Minimizes Heat Buildup
- Several ADA-compliant Configurations Available

for corrosion resistance, safety and high strength-to-weight properties.

Russian River Boardwalks - Anchorage, Alaska FRP boardwalks installed along the Russian River provide access for anglers, pedestrians and cross country skiers in the winter without ruining the vegetation on the riverbanks. Heavy pedestrian traffic and constant climbing up and down the banks by anglers caused the riverbanks to lose vegetation creating bank erosion and river shallowing. Needing to find a material that would meet ADA requirements, be safe for pedestrians and allow light through to recovering vegetation, the U.S. Forest Service chose Fibergrate's Safe-T-Span® pedestrian pultruded grating. The light gray color blends well with natural environments.

1-800-934-1943

Email us at

info@rdsdockhardware.com

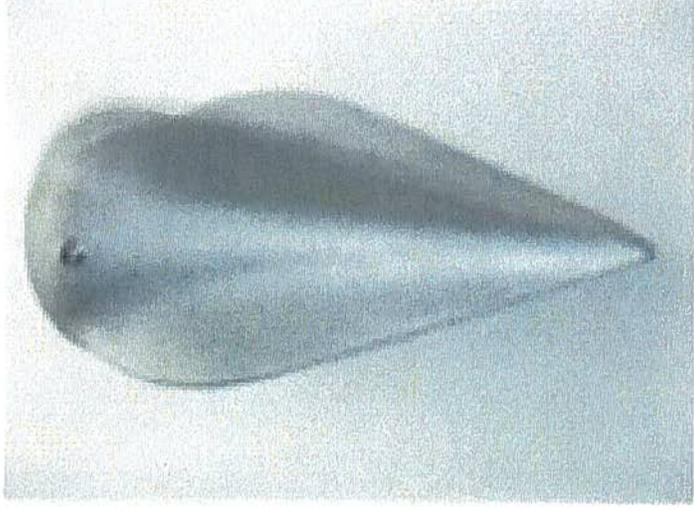
RDS, P.O. Box 298,

West Franklin, NH 03235

Visit us at 324 Hill Road, Franklin,

NH

FOR BOY BLOWK NO1



2" Pipe Point (PLD011)

\$30.00

The Pipe Point can be used in any situation, but is very helpful where the Lake bottom is extra firm.

Add To Cart

[Add to Wishlist](#) / [Add to Compare](#)

Catalog

Pipe Leg Dock Hardware

- 1 1/2" Pipe Leg Dock Hardware
- 2" Pipe Leg Dock Hardware**
- 4 x 4 Dock Hardware
- Floating Dock Hardware
- Ladders
- Dock Accessories
- Deck Hardware
- Bench Kits
- Complete Docks
- Winter Accessories

Product Search

2" Pipe Leg Dock Hardware

3/8" or 1/2" S.S. assembly bolts, nuts and washers available for Pipe Leg Docks. See our full line of [Stainless Steel Fasteners](#).

Inside Pipe Diameter	Outside Pipe Diameter
2"	2 2/3"

[Home](#) > [Pipe Leg Dock Hardware](#) > [2" Pipe Leg Dock Hardware](#)

12 products per page

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Displaying 1 to 12 (of 16 products)

Page: [1] 2 | [Next](#) | [View All](#)



2" Pipe Side Bracket (PLD002)
\$25.00



2" Pipe Corner Bracket (PLD004)
\$24.50



2" Pipe Base (10" Diameter) (PLD006)
\$32.00



2" Pipe Trim Cap (PLD008)
\$5.75



Combination 1 1/2" or 2" Drive Cap (PLD009)
\$18.75



2" Pipe Point (PLD011)
\$30.00



2" Clamp on Brace Bracket (PLD013)
\$17.00



2" Brace Bracket (PLD015)
\$12.50



Brace Clamp (PLWLD016)
\$12.50

Sign In

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Password:

- Keep me signed in until I sign out.
 (Uncheck on a public computer)
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3 Step 2" x 4" Ladder (WDL053)
\$125.00

1/4-20 x 3/8 Hex Head Cap Screw - Stainless Steel

\$0.20



Large Anchor Ring (FDH036)

\$27.50



1/2" Aluminum Pipe (.85" OD for Bracing)
\$2.50



3/4" Schedule 40 Aluminum Pipe (1" OD for Pipe Ladders)
\$1.50



2" Galvanized Pipe (2-3/8" OD)
\$4.50

Displaying 1 to 12 (of 16 products)

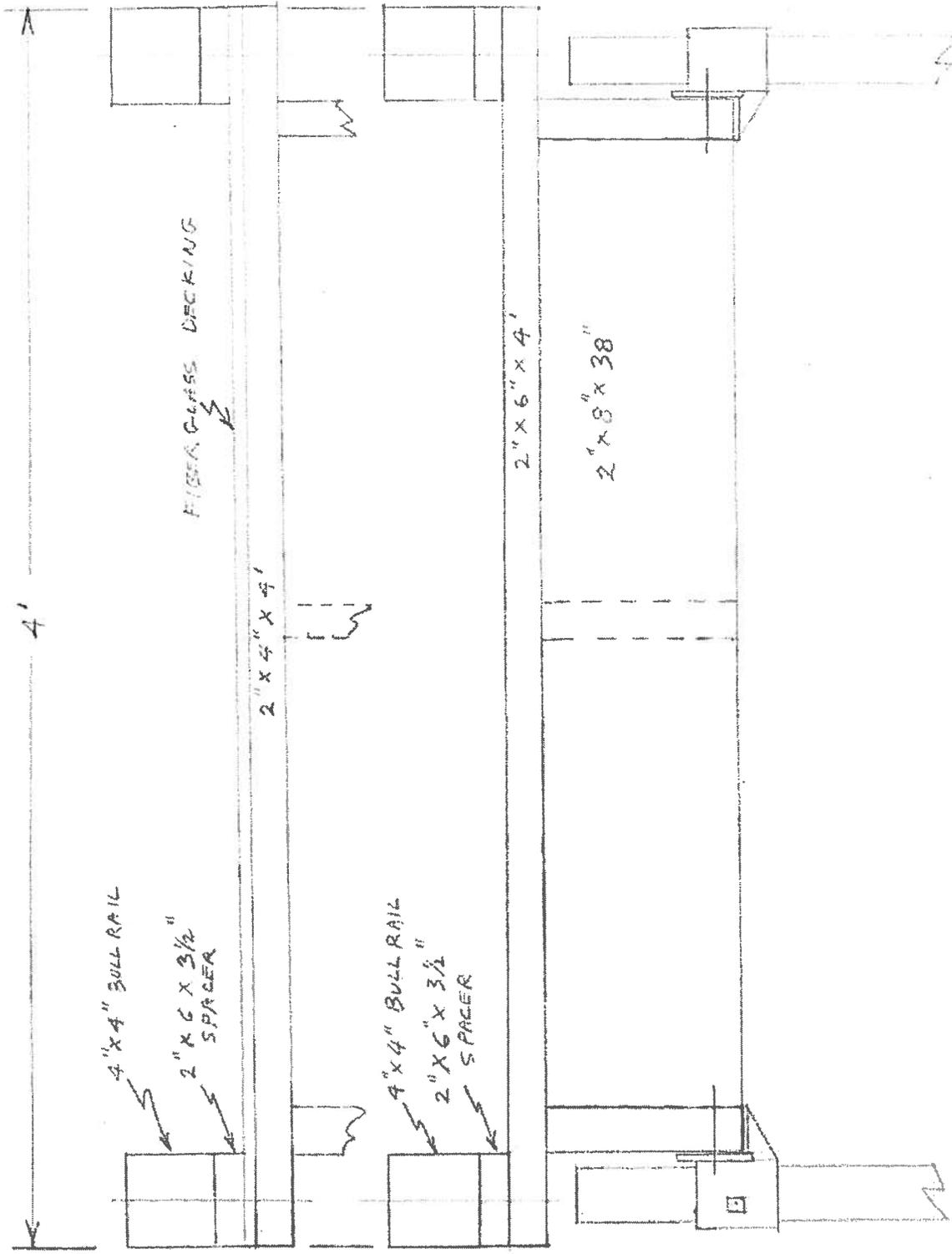
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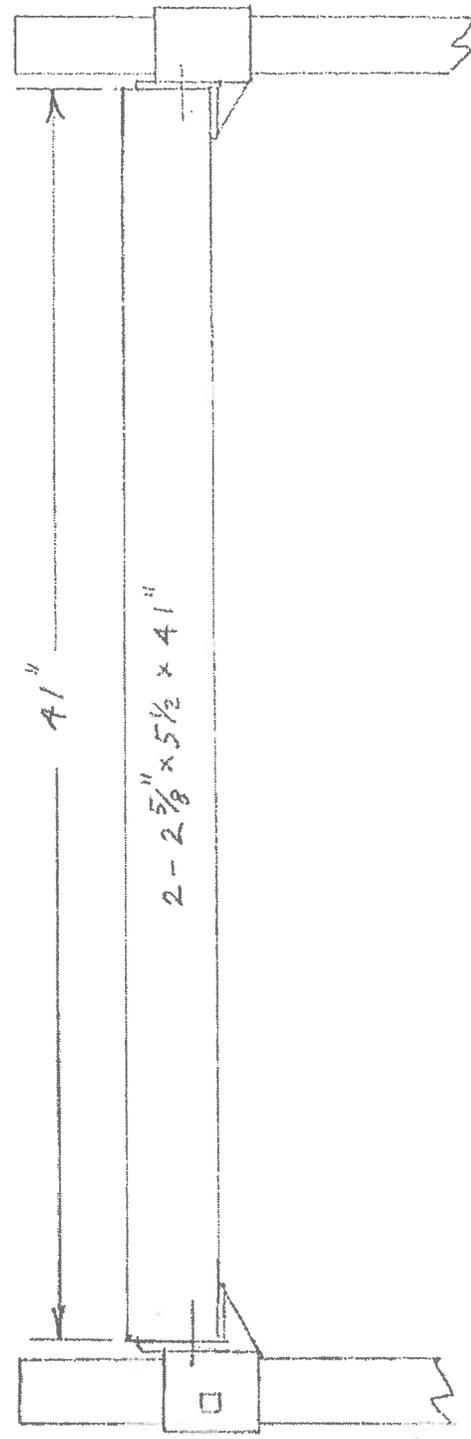
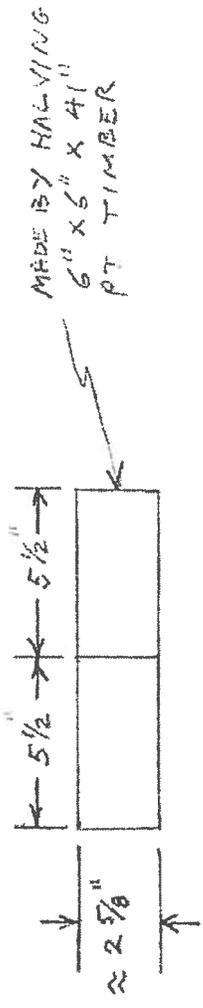
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STRINGER SUPPORT
AT

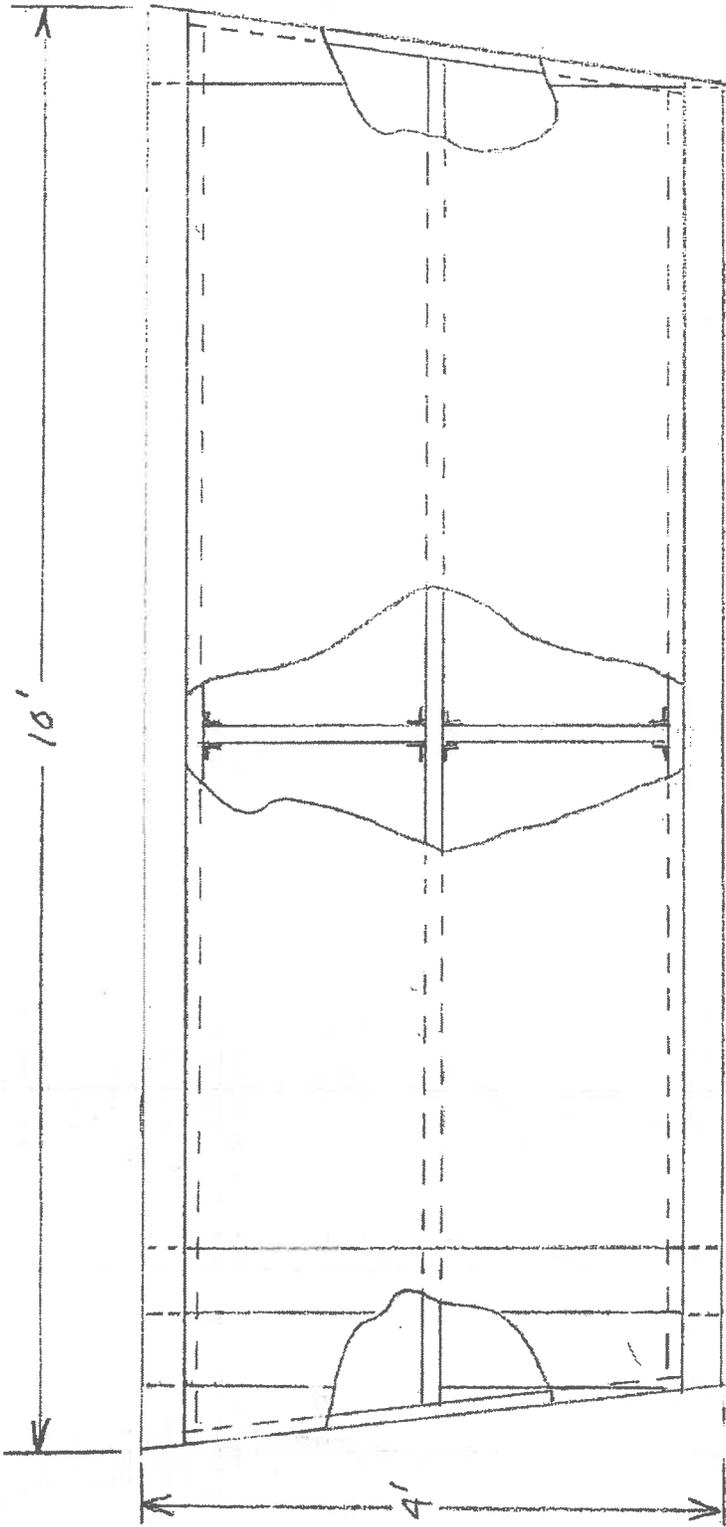
STRAIGHT BOARDWALK JUNCTIONS

REV 2.011



STRINGER SUPPORT
AT

ANGLED BOARDWALK JUNCTIONS
RFB 7011



ANGLED BOARDWALK SECTION

RF 2011

Fiberglass Grid Decking – Straight Section

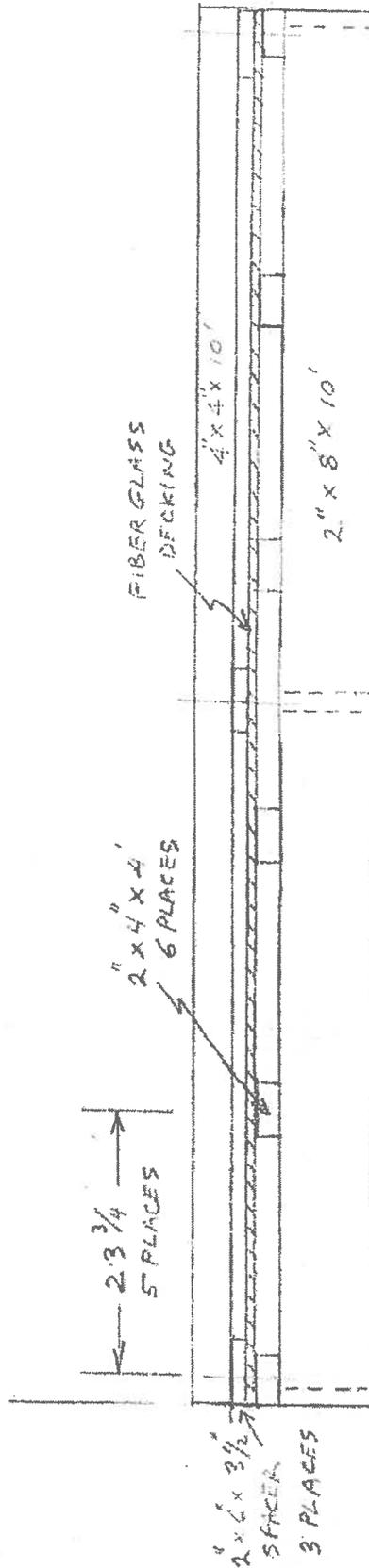
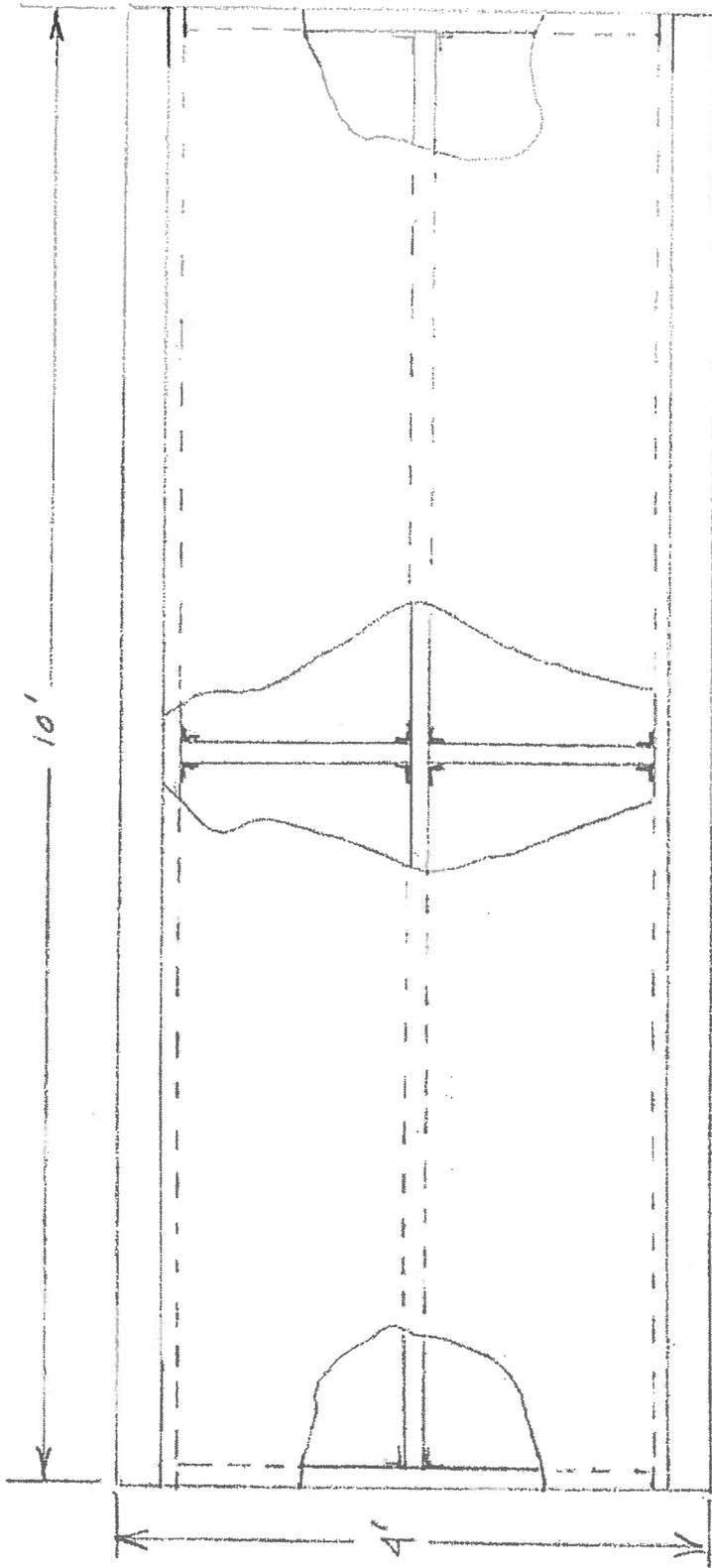
<u>Qty</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Total Cost</u>
4	2" x 8" x 10' pressure treated	\$7.94	\$31.76
3	2" x 4" x 8' pressure treated	\$3.61	\$10.83
2	4" x 4" x 10' pressure treated	\$12.52	\$25.04
	40 sq. ft. of fiberglass grid decking	tbd	tbd
6	joist hangers for 2" x 8"	\$1.35	\$8.10
1	box (1 lb) joist hanger nails – hot galvanized	\$2.63	\$2.63
1	lb – 16d common nails – hot galvanized	\$2.00/lb	\$2.00
4	3/8"-16 x 2-1/2" carriage bolts – galvanized	\$0.69	\$2.76
6	3/8"-16 x 8" carriage bolts –galvanized	\$1.99	\$11.94
10	3/8"-16 flat washers – galvanized	\$0.20	\$2.00
10	3/8"-16 hex nuts – galvanized	\$0.23	\$2.30
2	straight dock brackets	\$26.06	\$52.12
2	dock auger bases	\$12.85	\$25.70
2	Steel pipe 2" x tbd ft. schedule 40 galvanized	\$5.87/foot	tbd

add 1 2"x8" per section

Fiberglass Decking – Angled Section

<u>Qty</u>	<u>Description</u>	<u>Unit Cost</u>	<u>Total Cost</u>
4	2" x 8" x 10' pressure treated	\$7.94	\$31.76
3	2" x 4" x 8' pressure treated	\$3.61	\$10.83
2	4" x 4" x 10' pressure treated	\$12.52	\$25.04
1	6" x 6" x 41" pressure treated	\$2.65/ft.	\$9.06
	40 sq. ft. of fiberglass grid decking	tbd	tbd
4	joist hangers for 2" x 8"	\$1.35	\$5.40
1	box (1 lb) joist hanger nails – hot galvanized	\$2.63	\$2.63
1	lb – 16d common nails – hot galvanized	\$2.00/lb	\$2.00
4	Simpson Strong Tie T Strap Model 66T	\$3.62	\$14.48
4	3/8"-16 x 2-1/2" carriage bolts – galvanized	\$0.69	\$2.76
6	3/8"-16 x 8" carriage bolts –galvanized	\$1.99	\$11.94
10	3/8"-16 flat washers – galvanized	\$0.20	\$2.00
10	3/8"-16 hex nuts – galvanized	\$0.23	\$2.30
2	straight dock brackets	\$26.06	\$52.12
2	dock auger bases	\$12.85	\$25.70
2	Steel pipe 2" x tbd ft. schedule 40 galvanized	\$5.87/foot	tbd

open water section use 2'x12" at 16" on center



BOARDWALK SECTION
USING FIBER GLASS DECKING

RFB
2011

Acton
CPA
p. 13



2014 Notice of Intent – Acton Arboretum Parking Lot Expansion and Bog Boardwalk Replacement Construction

Project Narrative

A. Parking lot expansion

Parking lot expansion will entail clearing and grubbing an area of 7,500 sq. ft. Clearing will be done by the Town of Acton Highway Department crew. A new one way entrance will be created, and the former entrance will become a one-way exit. A new 3,500 sq. ft. rain garden will be built adjacent to the parking lot to filter storm water run-off. The existing information kiosk will be removed and replaced by a new one just inside the lawn area adjacent to the parking lot (please see attached plan).

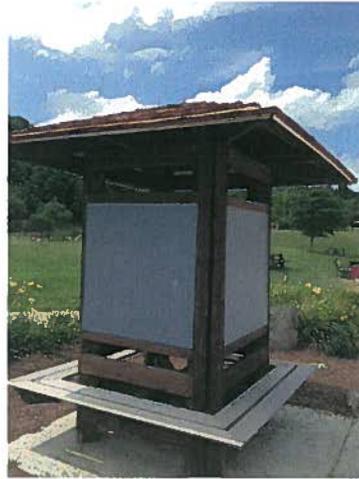
B. Bog Boardwalk Replacement Construction

New bog boardwalk construction involves three components:

- (i) The first is to build a paved, ADA sidewalk ramp from the existing sidewalk along Minot Avenue to connect to the new bog boardwalk. All customary BMP's will be utilized by the Acton Highway Department during construction. Building the sidewalk ramp will require the removal of 4 mature, white pine (*Pinus strobes*) trees, several small seedlings and shrubs, clearing and digging (please see attached plan).
- (ii) The second component is to build a new 300' boardwalk across the bog. The water depth down to hardpan/rocky bottom varies across the bog where the proposed new boardwalk will extend. 2" Stainless steel pipe legs will be used with pipe points every 10 feet on both sides of the boardwalk to anchor the structure to the bottom of the bog. Stainless steel brackets will connect the pipe legs to the pressure treated lumber base construction. Fiberglass decking will be affixed to top of the boardwalk, which is ADA compliant, non-slip and eco-friendly. It does not decay and it allows more light to penetrate to the plants below. The new boardwalk will be elevated 18" above the plants instead of the current design, built by Eagle Scouts 20+ years ago, which sits on top of the flora.
- (iii) Removal of approximately 600 sq. ft of old boardwalk lumber will occur after the new one is built. It will be transported by volunteers by hand to Minot Ave. and will placed in waiting dump trucks to be taken for recycling. Care will be taken by volunteers not to step on sensitive bog plants such as Northern pitcher plant (*Sarracenia purpurea*).



Proposed new kiosk design (parking lot expansion)



Parking Lot Expansion Concept Design:

Improved Universal Accessibility of "Trailhead"

- ▶ **accessible pathway to new kiosk**
- ▶ **accessible walkway to handicap picnic table**
- ▶ **accessible portable toilet**

