Designing and Operating Accessible Nature Trails

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# All Persons Trails How many of you...



- Are just now being introduced to APTs?
- Have visited an accessible nature trail?
- Have attended a training or presentation on accessible trails?
- Are likely to be planning an accessible trail soon?











- Adaptive Activities and Programs
- Inclusive Customer Service
- Partnerships and Collaboration
- Opportunities for Meaningful, Long-Term Engagement
- Universally-Designed Features and Experiences

## **Adaptive Activities & Programs**

- Public Programs Events
- Group Programs
   Sensory Days
- Self-Guided Experiences



# **Opportunities for Meaningful and Long-term Engagement**

 Vocational-Transitional Internships

- Inclusive Volunteering
- In-depth Education programs







## **Universally-designed Features & Experiences**

- Entrances and admission areas
- Restrooms
- Program spaces
- Exhibition spaces
- Boardwalks and Overlooks
- Wildlife viewing areas

- Specialized gardens
- ADA picnic tables
- Nature play features
- Multi-use seating areas
- All Persons Trails



# **APT Signage**













# **Physical Supports**

- Navigation
- Multi-use Seating
- ADA Picnic Tables
- Beads







#### **Displays & Features**





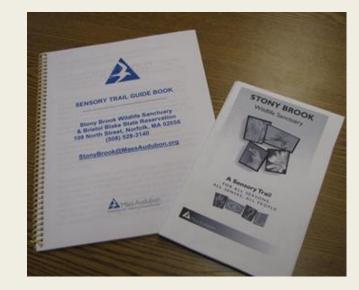


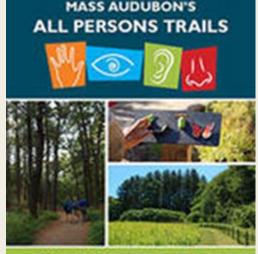


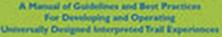


## **Trail Resources**

- Tour booklets regular print, large print, braille, online
- Trail maps printed and tactile formats
- Audio tours online, audio players, cell phone
- Items to borrow
- Trained customer service staff
- Guidelines for other organizations









# **APT Components**

- Universal Design
- Trained staff and volunteers
- Transportation
- Materials in multiple formats
- Information available in advance
- Outreach and collaboration
- Collecting visitor feedback
- Networking
- Sharing information with others





# **Inclusive Customer Service**

#### **Staff capacity**

- Awareness, humility, and sensitivity
- ADA regulations
- Accessibility etiquette and best practices
- Providing accurate information
- Policies and positions
- Accessible features
- Available visitor resources





# **Partnerships & Collaboration**



#### Internal

- Site teams
- Volunteers
- Capital Projects
- Development
- Statewide Accessibility Team
- Accessibility Specialists
- Marketing & Communications

#### External

- Accessibility consultants
- Community resource professionals
- Expert Users
- Funders and donors
- Trail design and construction teams
- Printers and fabricators
- Accessibility community of practice



1.	Stony Brook
2.	Broadmoor
3.	Arcadia
4.	Attleboro Springs
5.	Trailside
6.	Pleasant Valley
7.	Broad Meadow Brook
8.	Wellfleet
9.	Boston Nature Center
10.	Drumlin Farm
11.	Habitat
12.	North River
13.	Allens Pond
14.	Wachusett Meadow
15.	Tidmarsh
16.	Cedar Pond
17.	Brewster's Woods
18.	Long Pasture
19.	Pawtucket Farm
20.	Oak Knoll – 2025
21.	Felix Neck – 2025

- 22. Ipswich River – 2026
- 23. Museum of American Bird Art - 2026

#### How is an APT created?

Tasks / Months	1	2	3	4	5	6	7	8	9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4
Pre-Planning	_																							
Planning & Design						•																		
Engaging Contractors & Budgeting																								
Permitting																								
Fundraising																								
Construction																								
Interpretive Overlay						-														•				
Training																								
Opening!																							-	
Maintenance																						-		≻

# **APT Cost & Budgeting**

#### BUDGET

- Surveying and Wetland Delineation
- Permitting
- Design & Engineering Services
- Trail Construction In house or through contractors. Materials, labor, lodging, transport, training.
- Bridge, boardwalk, ponding platforms.
- Parking or associated construction.
- Landscape Improvements soil, vegetation removal, new plantings
- Interpretive Elements
- Staff Time, Maintenance Endowment, Contingency, Marketing, Development

TRAIL BUDGET	
Scope	
Project Prep / Planning	
Surveying	
Wetland Deliniation	
Engineering / Design Services	
Permitting - NOI (document prep & hearings)	
Subtotal	
Trail Construction	
Trail Surfacing	
Boardwalk Construction	
Viewing or Ponding Platform	
Benches / Multi-use Seating Areas	
Subtotal	
Education & Interpretive Elements	
APT Entrance Sign	
Post & Rope Guide	
Stop Markers	
Interpretive Tactile Artifacts & Labels	
Audio Tour Production	
Audio Player	
Printed Tour Book & Printed Tactile Map	
Printed Tour Booklet	
Consultants	
Subtotal	
Trail Total	
Staff Time - 20%	
Contingency - 10%	
Maintenance - 5%	

## **APT Funding**

#### FUNDING

- Mass Trails Grant
- Community Foundations
- Public and Private Foundations

   Mass Cultural Council
   Tower Foundation
   Reeve Foundation
   Alvarium Foundation
   IMLS Foundation
- Corporate Funders
- Individual Private Donors



As a Long Pasture Discovery Center donor, you realize the power of supporting your neighborhood sanctuary.

You can continue to make a difference in our community by supporting our next and most critical project, <u>The All Persons Trail at Long Pasture</u>

Mass Audubon is creating the All Persons Trail at Long Pasture Wildlife Sanctuary to increase safe access to the outdoors, serve as a resource for our local community—especially the one-sixth of the general population that has some disability and ensure that people of all abilities can experience the wonders of nature year-round.

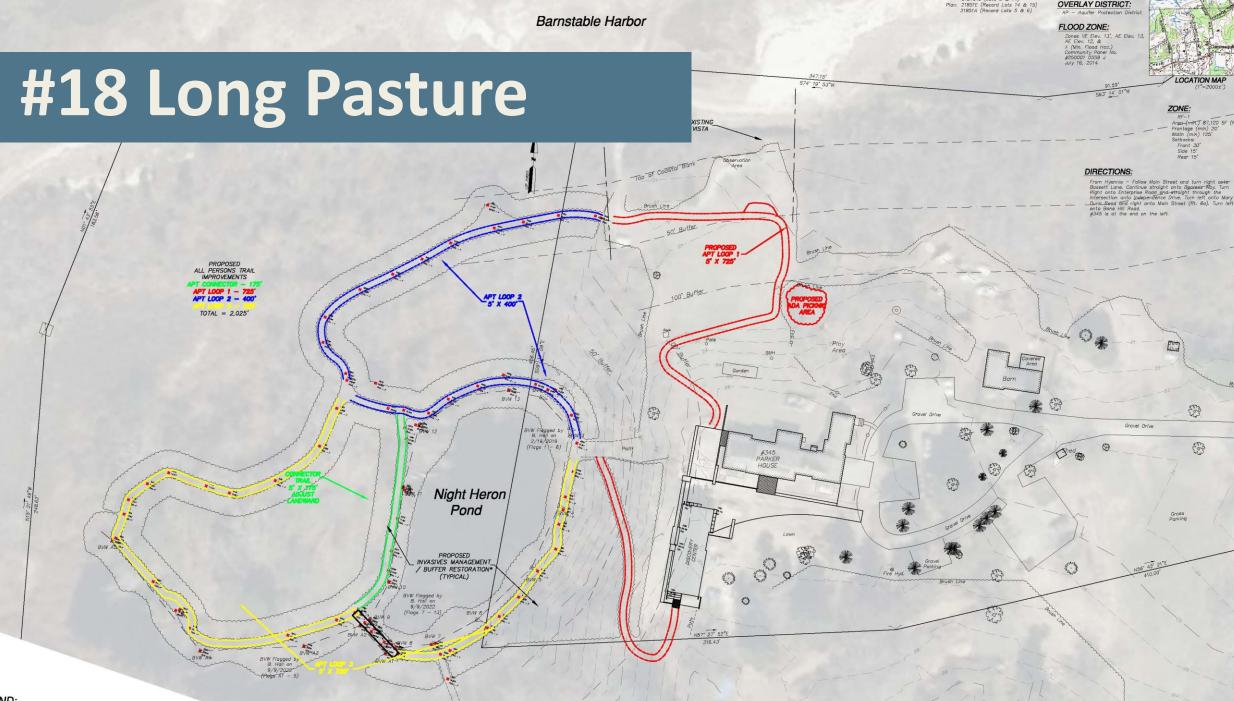
> We know that you also believe nature should be enjoyed by everyone. Please **make a gift today** to **your** neighborhood sanctuary!

## **#17 Brewster's Woods**









1013 [LOIS J & 14]

OVERLAY DISTRICT.

LEGEND: CDT Cedar Tree



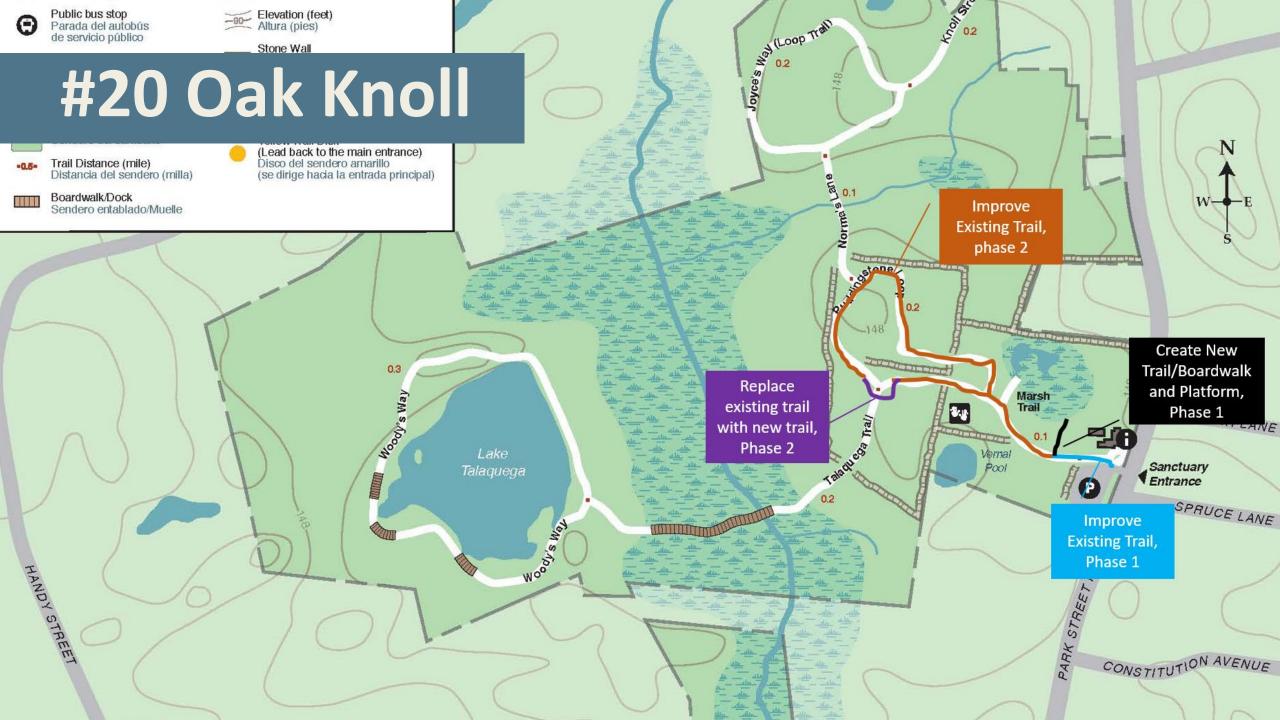




## **#19 Pawtucket Farm**









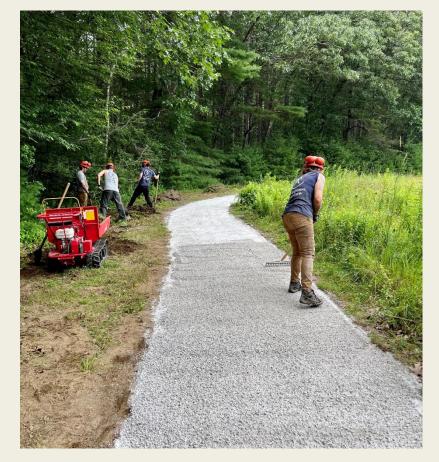
#### **Challenges and Barriers**

- Staff availability and knowledge (planning, permitting, construction)
- Additional ongoing and long-term maintenance and oversight requirements
- Availability of partnering companies for construction
- Availability of equipment
- Fundraising



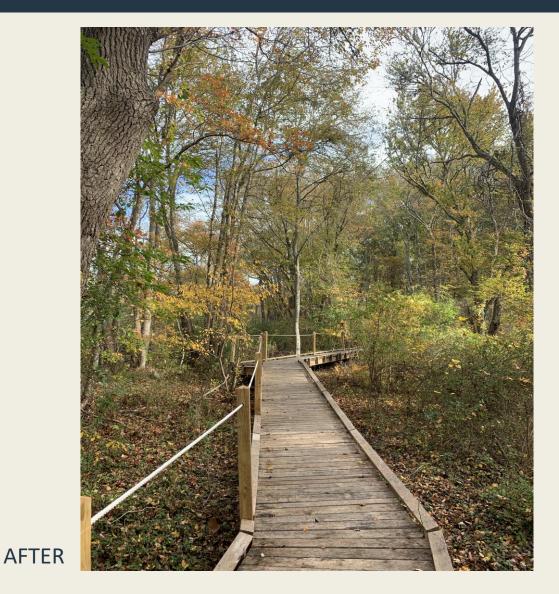
# **Ongoing Maintenance Needs**

- Resurfacing
- Weeding, edge maintenance
- Erosion control
- Repair/replacement of rope guide
- Repair/replacement of tactile elements
- Updates to audio tours

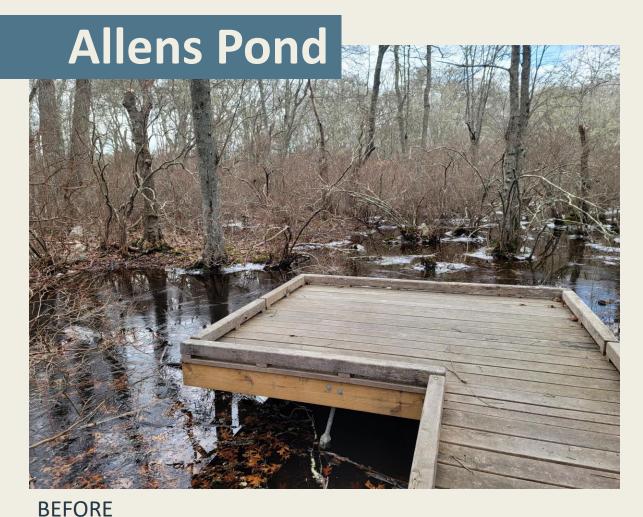


## **Allens Pond**





BEFORE





AFTER

## **Maintenance Assessment**

- Assess current maintenance needs.
- Develop estimate of cost associated with current maintenance needs and annual costs moving forward.
- Establish annual funding source for APT maintenance.



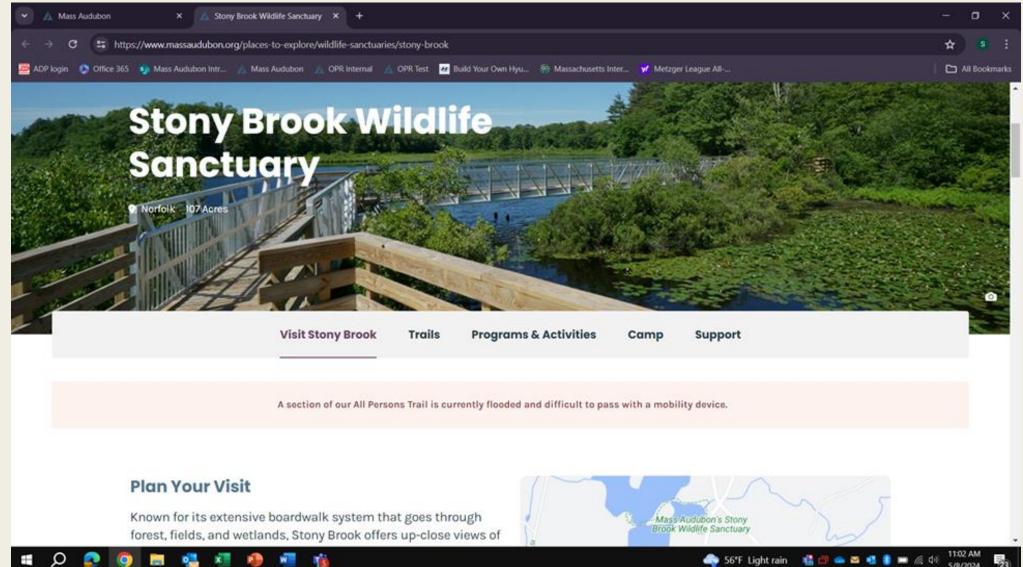


### **Maintenance Communications**

#### Stony Brook

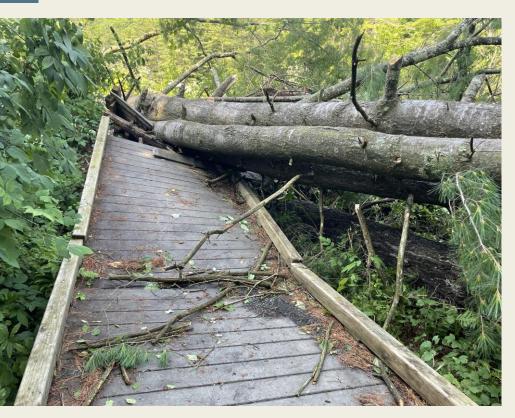


## **Maintenance Communications**



#### **Pleasant Valley**







BEFORE

#### Pleasant Valley Repairs



#### **Pleasant Valley Repairs in Progress**







#### **Pleasant Valley Repairs in Progress**



#### **Stony Brook Repairs – an opportunity**

#### **APT Before Work**

- -Poor drainage
- -Widened by visitors to avoid wet spots
- -Build up of material on the edges



#### Training opportunity





#### Work Plan

Trail									
Segment	Stony Brook Sensory Trail (All Persons Trail)								
Length:	820 ft	-							
Distance	Location	Condition	Comments/Work Needed						
0	End of pavement, start of gravel	6'-8' wide, packed gravel							
22	Trail intersection, 90° turn to west; start pooling	Degradation of tread leading to pooling	(22-60) Add material to tread to reestablish grade. ≥2" thick needed						
60	End pooling								
140	Start pooling	Degradation of tread leading to pooling							
154	End pooling		(140-154) Add material to tread to reestablish grade where applicable, crown where no side slope present. ≥2" thick needed						
175	Begin channelizing	Degradation of tread leading to water channeling							
210	Roots	Roots exposed on tread	Remove roots						

Geotextile cloth folded over coarse stone creating a drainage lens







#### Use of electric equipment



