



Amphibian Crossing Waterloo Road

State of New Jersey, Department of Treasury • Division of Property Management and Construction (DPMC)
Byram Township, Sussex County, NJ

Virtual Public Information Center (PIC)
Tuesday, May 4, 2021 • 6:00PM – 8:00PM

Meeting Format

- Panelist Introductions
- Brief Presentation at 6:05 PM and 7:05 PM
- Question and Answer periods (following presentations)
 - Please use the **Chat Box or Question Box** in the webinar
- Post Meeting Comments and Questions: received through **May 18, 2021**

Submit to:



MacKenzie Hall, Biologist

Endangered and Nongame Species Program

NJ Division of Fish and Wildlife

PO Box 394, Lebanon NJ 08833

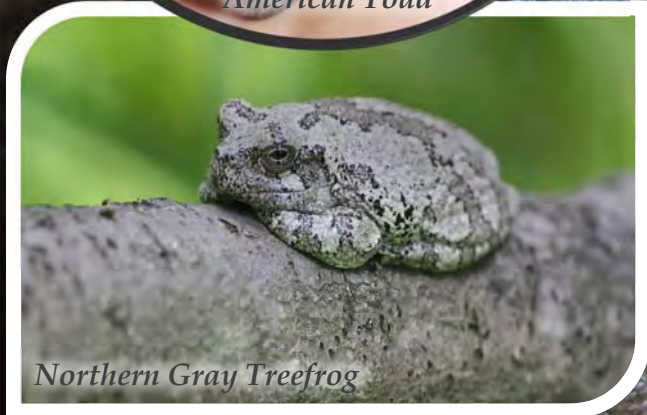
MacKenzie.Hall@dep.nj.gov



Amphibians in Our Forests



American Toad



Northern Gray Treefrog



Northern Spring Peeper



Redback Salamander

Spotted Salamander



Vernal Pools



SPRING

SUMMER





Waterloo Road



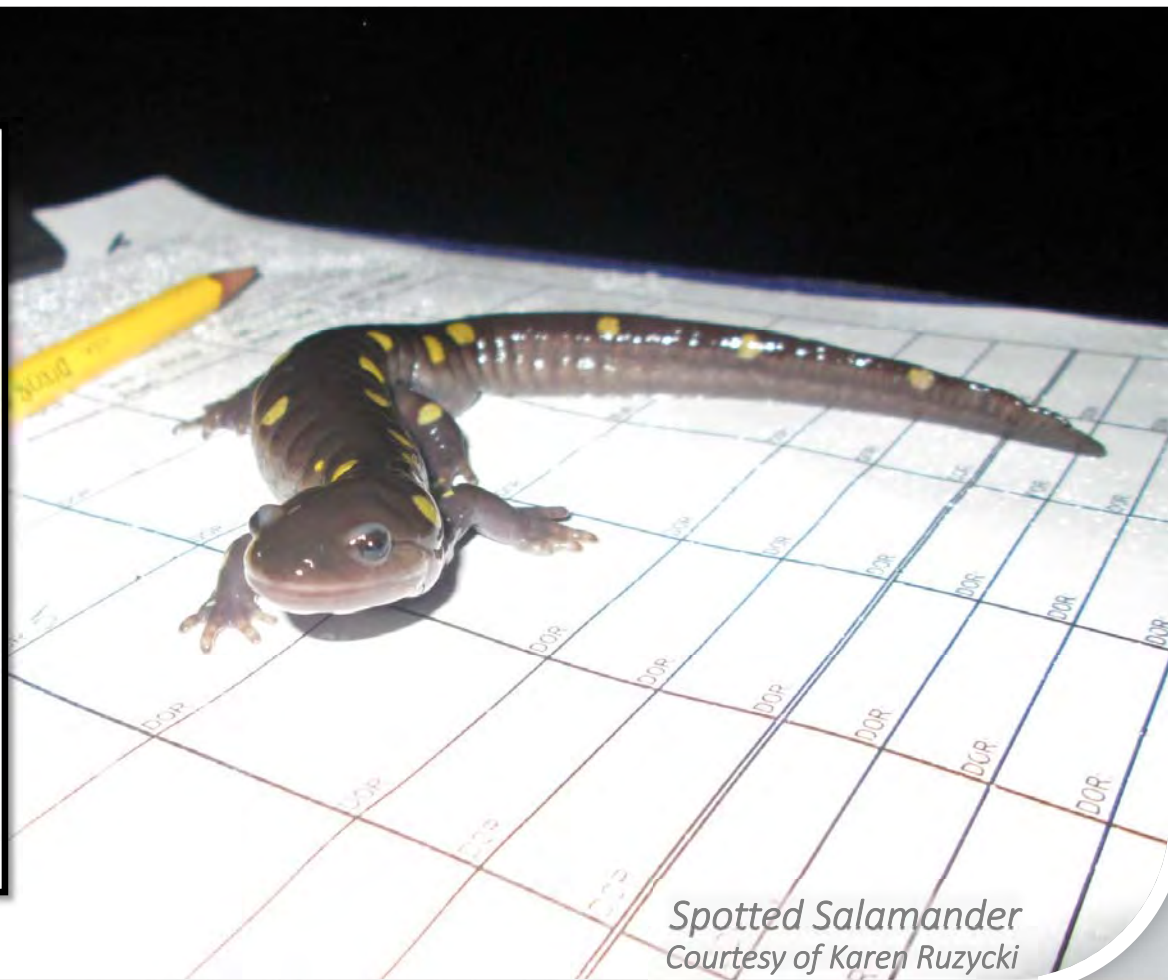
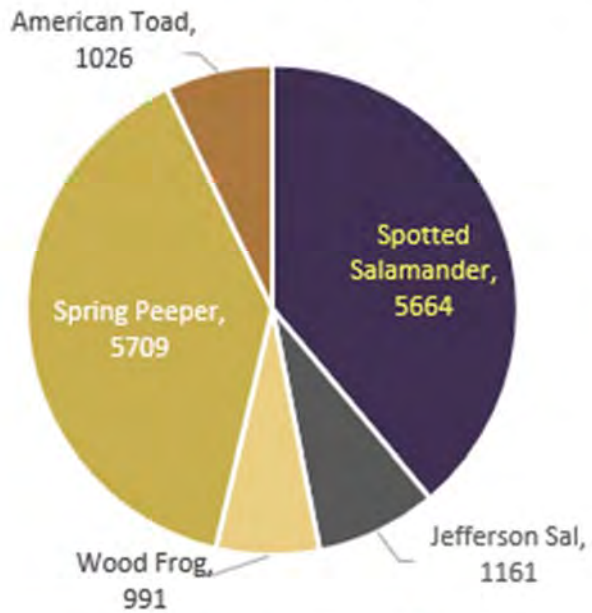
Wood Frog





Waterloo Road Data

Waterloo Road Amphibian Crossing Survey
Total Amphibian Observations, 2012-2020



Spotted Salamander
Courtesy of Karen Ruzycski



American Toad



Spring Peeper



Jefferson Salamander

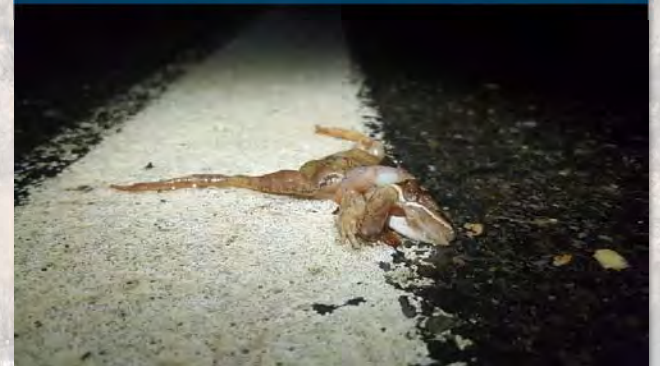
Volunteer monitoring crossing



Spotted Salamander



Wood Frog (Casualty on Shoulder Stripe)



Waterloo Road Rescue Volunteers



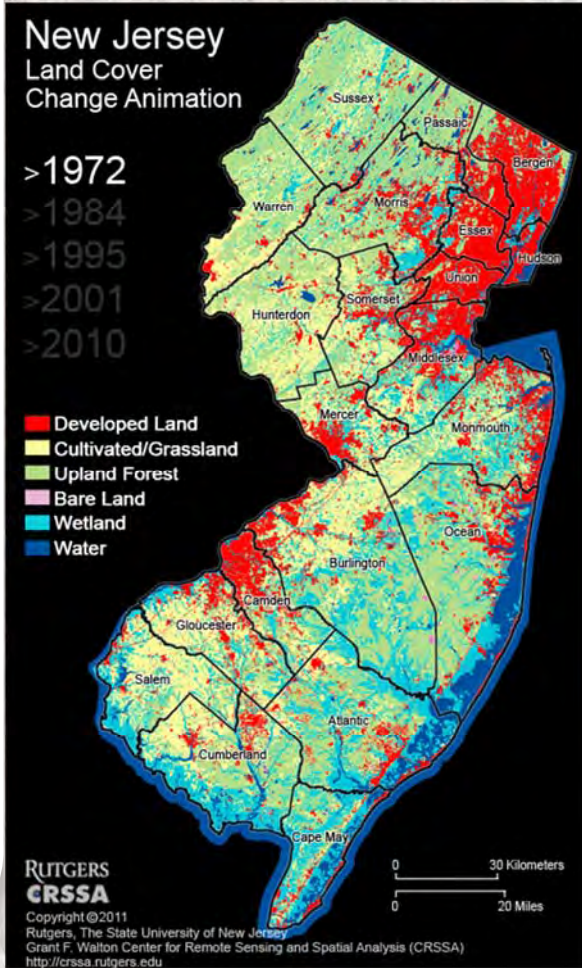


Habitat Loss and Roads

120+ native NJ wildlife species are threatened by fragmentation

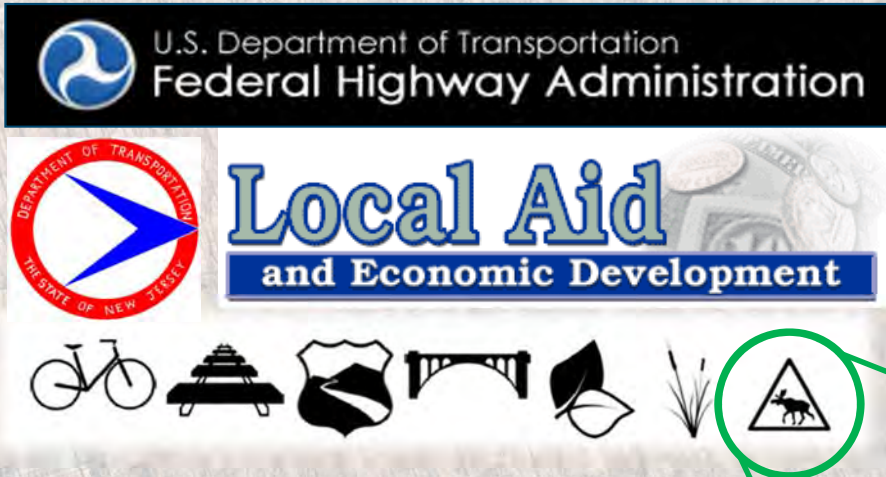


Eastern Box Turtle





Transportation Alternatives Program



With Support & Input From:

NJDEP Natural and Historic Resources Group
Sussex Co. Division of Engineering,
Sussex Co. Board of County Commissioners
Township of Byram
Conserve Wildlife Foundation of NJ
Tom Langton, Herpetofauna Consultants Int'l
Kensho Resources LLC
"The Neighborhood"

"Reduce
vehicle-caused wildlife
mortality or to restore and
maintain connectivity among
terrestrial or aquatic
habitats"



Waterloo Village

CR604 Waterloo Road
Westbound

Allamuchy Mountain
State Park and existing
slope towards roadway

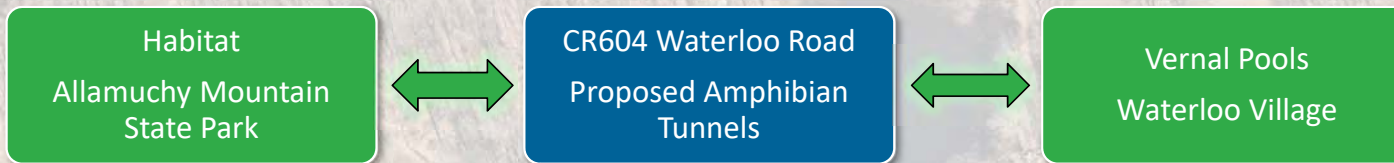
CR604 Waterloo Road Existing Conditions



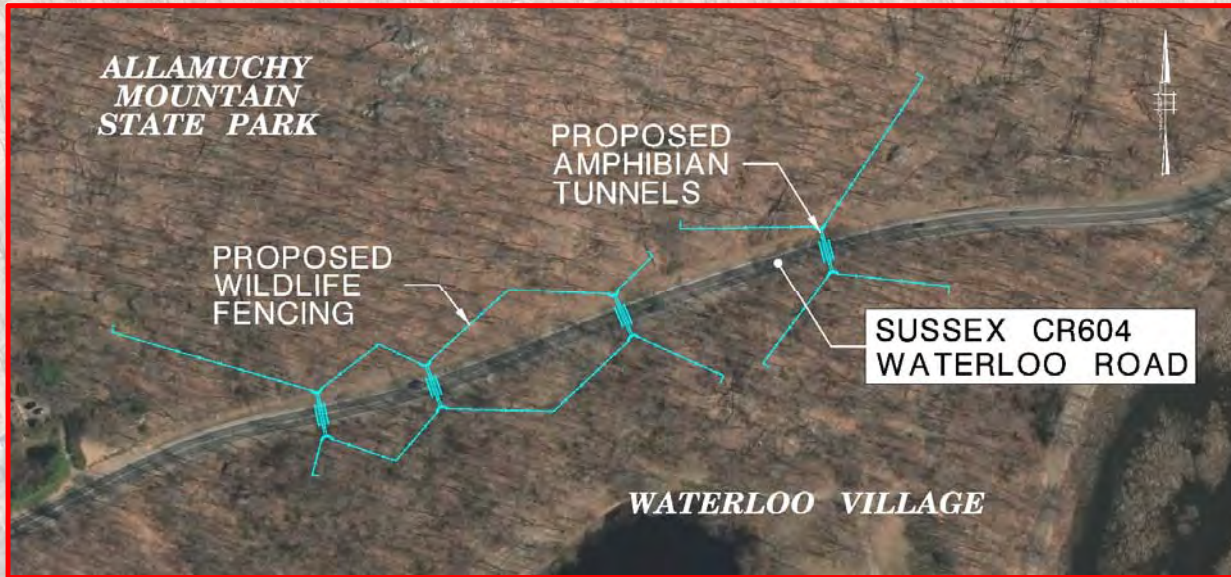
Waterloo Village Vernal Pool

Project Purpose

Construct an amphibian passage system along a 1,200-foot section of Waterloo Road and surrounding Allamuchy Mountain State Park and Waterloo Village in Byram Township, Sussex County. Project offers a long-term solution to the vehicle-caused mortality threatening a significant local population of amphibians that use this area to migrate to a nearby vernal pool.



Project Locations / Limits



Sussex County Route (CR) 604
Waterloo Road • MP 0.81± to MP 1.02±
Byram Township, Sussex County



Proposed Improvements

- Improvements include:
 - Construction of four (4) specialized amphibian tunnels beneath Sussex County Route 604 Waterloo Road
 - Installation of guide fencing on both sides of the road to intercept and funnel amphibians towards the tunnels





Similar project: Assunpink Turtle Tunnels

Note: Waterloo Road project will have a closed top (no grates within the roadway and different fencing type due to habitat at Waterloo Road site)



Environmental Services & Other Approvals

- Categorical Exclusion Document (CED)
 - Addresses any potential environmental issues: Deforestation; Cultural Resources; ecology, threatened and endangered species; Wetlands; Air & Noise; Hazardous; Public Reaction; Socioeconomics; and Environmental Permits
- NJ Highlands General Permit 1 (GP-1)
- NJ State Historic Preservation Office (SHPO)
 - Coordination / approvals
- Upper Delaware Soil Conservation District
- Sussex County Road Opening Permit



Cultural Resources

- Project area falls partially within the Waterloo Village Historic District (NJ and National Registers of Historic Places 1977)
- The Leach/Gualandi House, located west of the project area, will be the subject of an intensive-level historic architectural survey, which will provide a recommendation as to potential National Register eligibility
- An assessment of project effects, as required by Section 106 of the National Historic Preservation Act, will be provided for the Waterloo Village Historic District
- An Application for Project Authorization, as required by the NJ Register of Historic Places Act, will also be completed



Proposed Improvements

ALLAMUCHY
MOUNTAIN
STATE PARK

AMPHIBIAN TUNNEL #4
PROJECT @ STA. 20+03±

AMPHIBIAN TUNNEL #3
PROJECT @ STA. 17+20±

PROPOSED WILDLIFE FENCE

LIMIT OF GRADING

INLETS FOR AMPHIBIAN TUNNEL
MAINTENANCE AND ACCESS
PAVEMENT REPLACEMENT

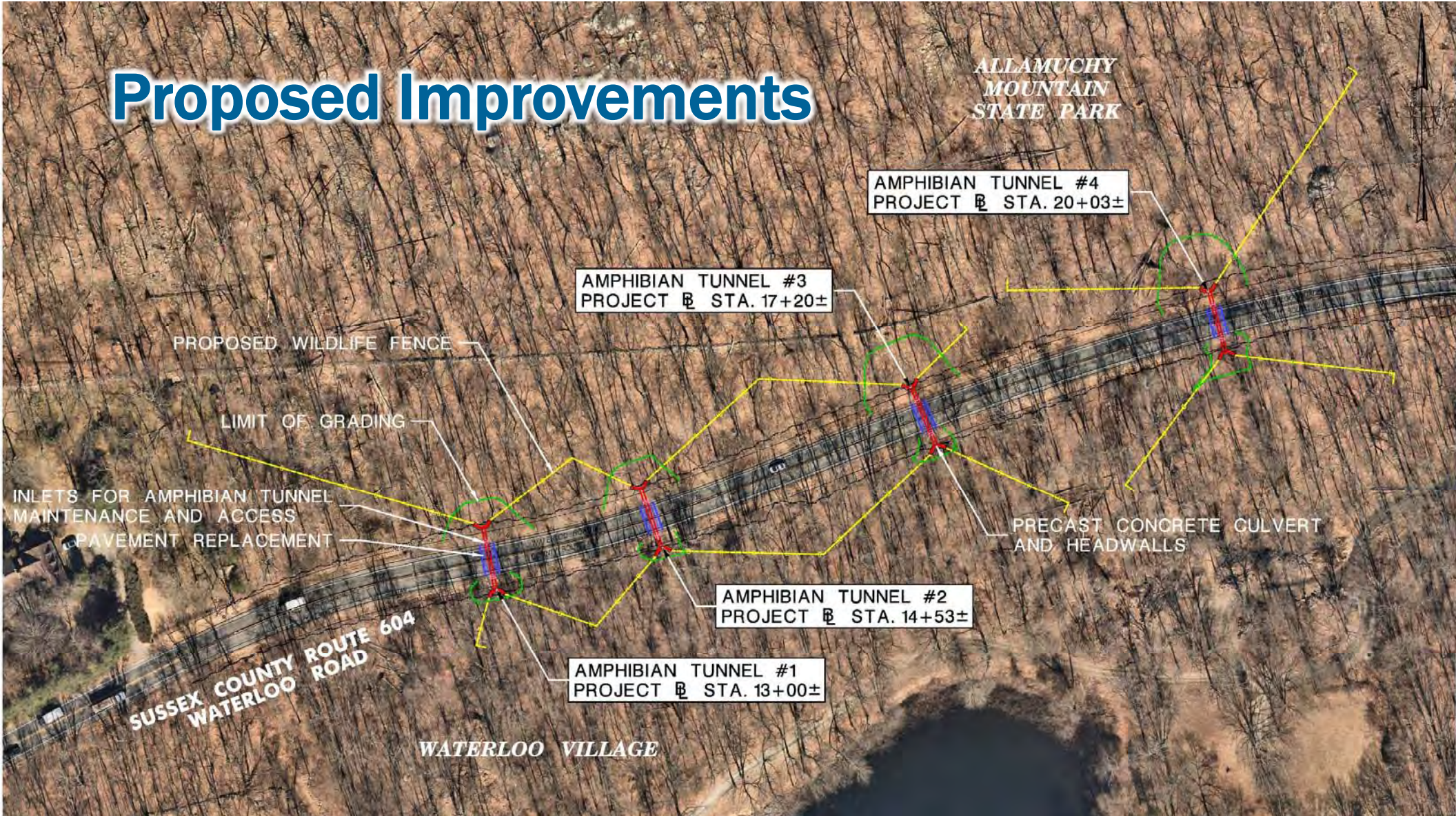
PRECAST CONCRETE CULVERT
AND HEADWALLS

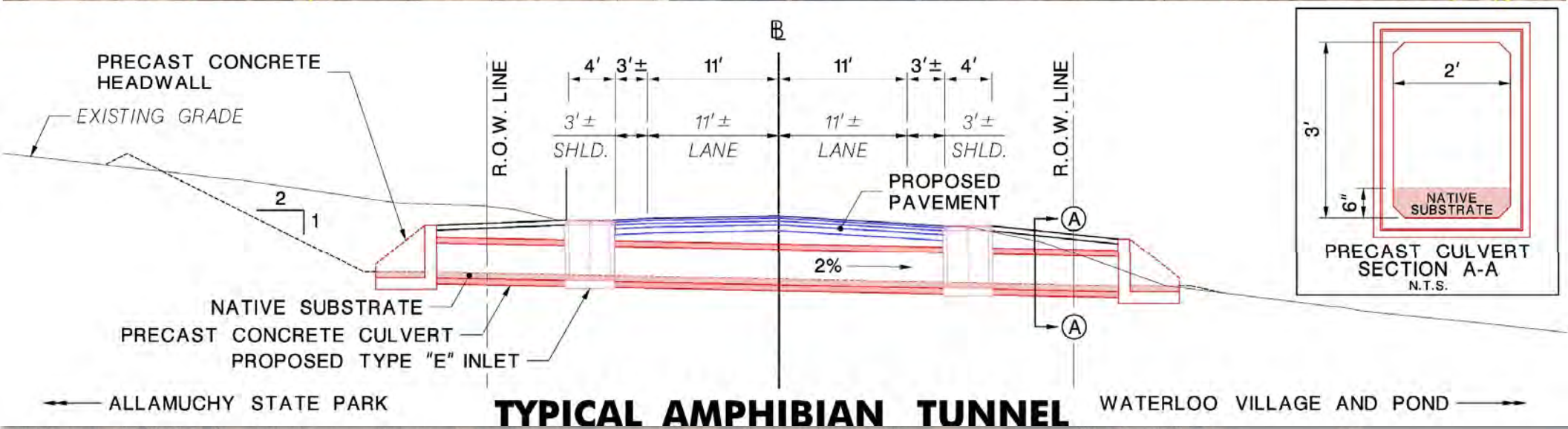
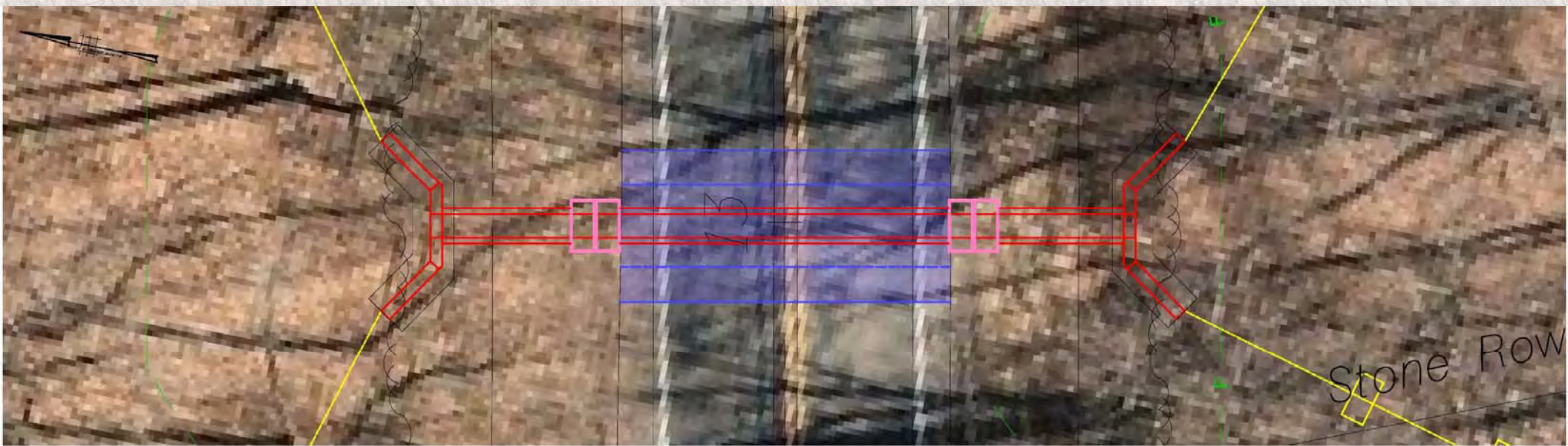
AMPHIBIAN TUNNEL #2
PROJECT @ STA. 14+53±

AMPHIBIAN TUNNEL #1
PROJECT @ STA. 13+00±

SUSSEX COUNTY ROUTE 604
WATERLOO ROAD

WATERLOO VILLAGE





Potential Wildlife Fencing Options



Next Steps

- Project Next Steps:
 - Review Comments from this Public Information Center
 - Complete Design Development Plans, Environmental Permitting
 - Advance project to Final Design Phase
- Anticipated Project Schedule:
 - Design Development Phase Completion: Summer 2021
 - Final Design Phase Completion: Summer – Fall 2021
 - Anticipated Construction Start Spring – Summer 2022

Questions & Open Discussion

Please use the chat box
to ask questions or provide comments

You may also submit questions & comments after the meeting through
Tuesday, May 18, 2021

Use contact information below

(Meeting summary will be posted on NJDEP Website)

njfishandwildlife.com/ensp/waterloo_proj_comment.htm

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