MILL BROOK CROSSING REPLACEMENT

Penobscot, Maine

Public Information Meeting
October 21, 2025

Robert S. Blunt, P.E. – VHB
Michaela Heffernan, PWS- VHB

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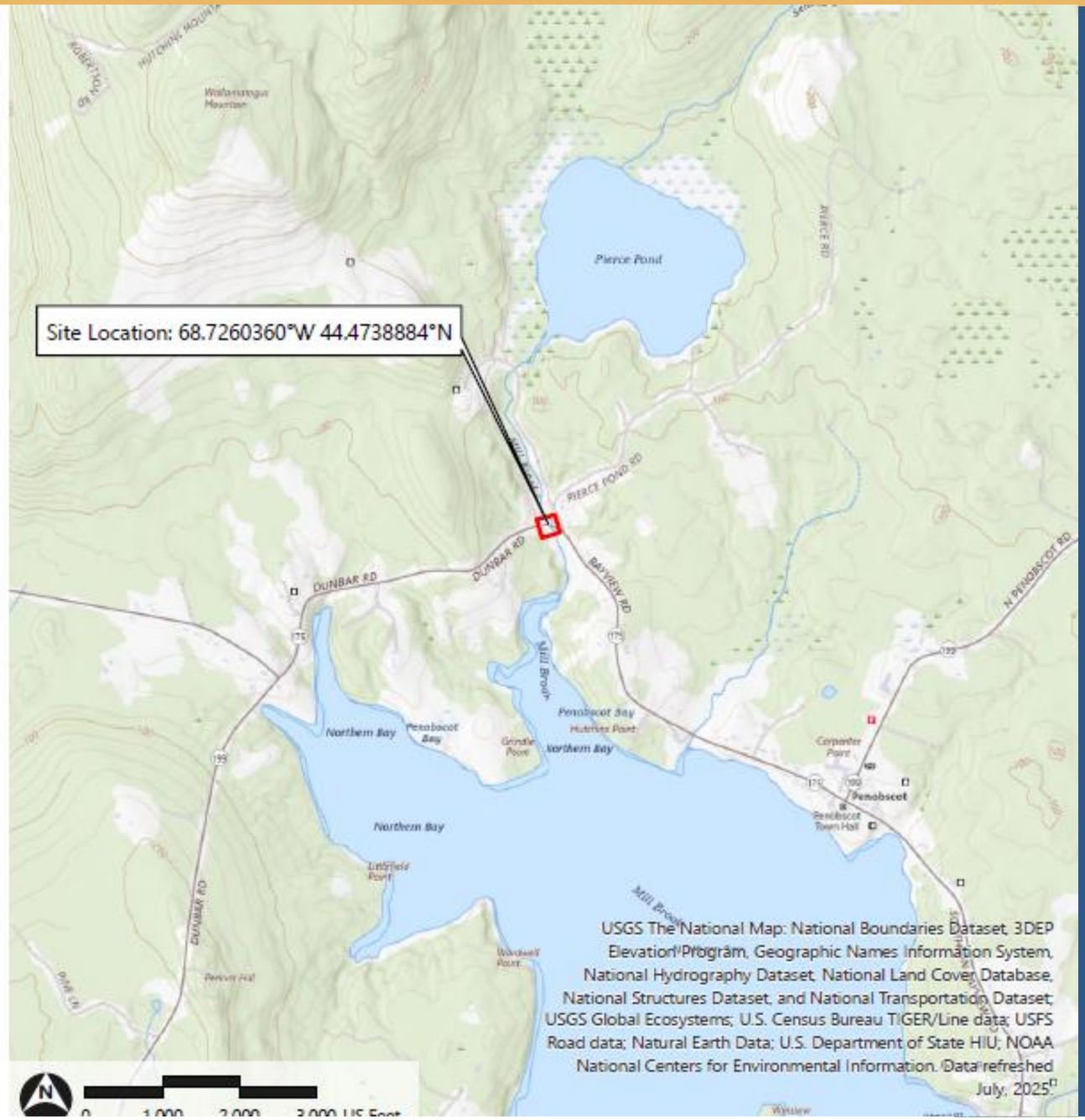
MEETING AGENDA

- Project Purpose & Need
- Existing Conditions
- Proposed Project
- Environmental Permitting Process
- Questions



PROJECT LOCATION

Crossing is located along Route 175 (Bayview Road) approximately one mile west of North Penobscot Road

PROJECT PARTNERS

- Town of Penobscot
- MaineDOT- MPI Project
- Maine Coast Heritage Trust
- Maine Maritime Academy
- Funding From: Multiple Grants & MaineDOT

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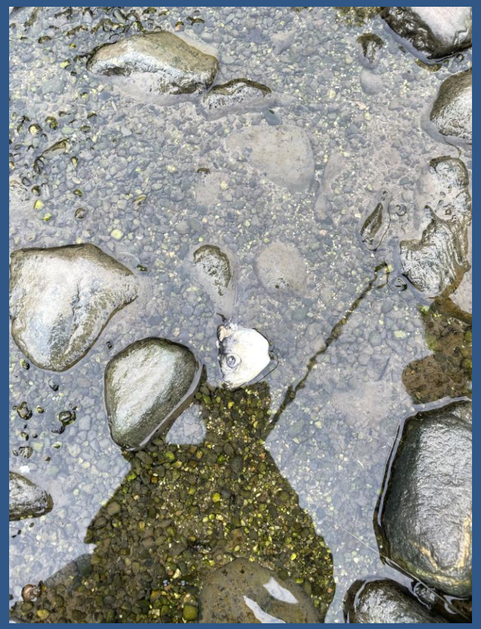
Site Photos



PROJECT PURPOSE & NEED

- Mill Brook is an important migration route for alewife from the Bagaduce River to spawning habitat in Pierce Pond
- The Project aims to remove tidal restriction created by existing structure and improve natural tidal flow north of Bayview Road
- Project will improve fish passage and provide ecological restoration of tidal salt marsh habitat

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PROJECT PURPOSE & NEED

- Aging Infrastructure
- Coastal Resiliency- Coastal and Riverine Flooding
- Crossing is currently hydraulically inadequate

Flooding event overtopping the road on January 10th, 2024

EXISTING CONDITIONS

- Stone box culvert with wide granite slabs spanning dry-laid stone abutments
- Cracked slabs & voids behind abutments
- Tidal crossing with freshwater influence → roadway subject to flooding

Existing Structure

PROPOSED PROJECT

- Complete culvert replacement with a new precast concrete box culvert
  - New stream alignment to better align with the flow of Mill Brook and reduce scour risk
  - Designed to meet Habitat Connectivity Standards for aquatic organism passage and Maine Department of Marine Fisheries Coastwise guidance for salt marsh tidal flows
  - Natural streambed material and stabilized banks
- Elevating roadway for coastal resiliency
- Additional Project Components
  - Relocating existing sand/salt storage pile and replacing with gravel public parking area
  - Replacing 24-inch PVC culvert located 300 feet east of Mill Brook crossing with 36-inch PVC culvert

Proposed Structure

Snow Brook Culvert- Sedgwick, ME

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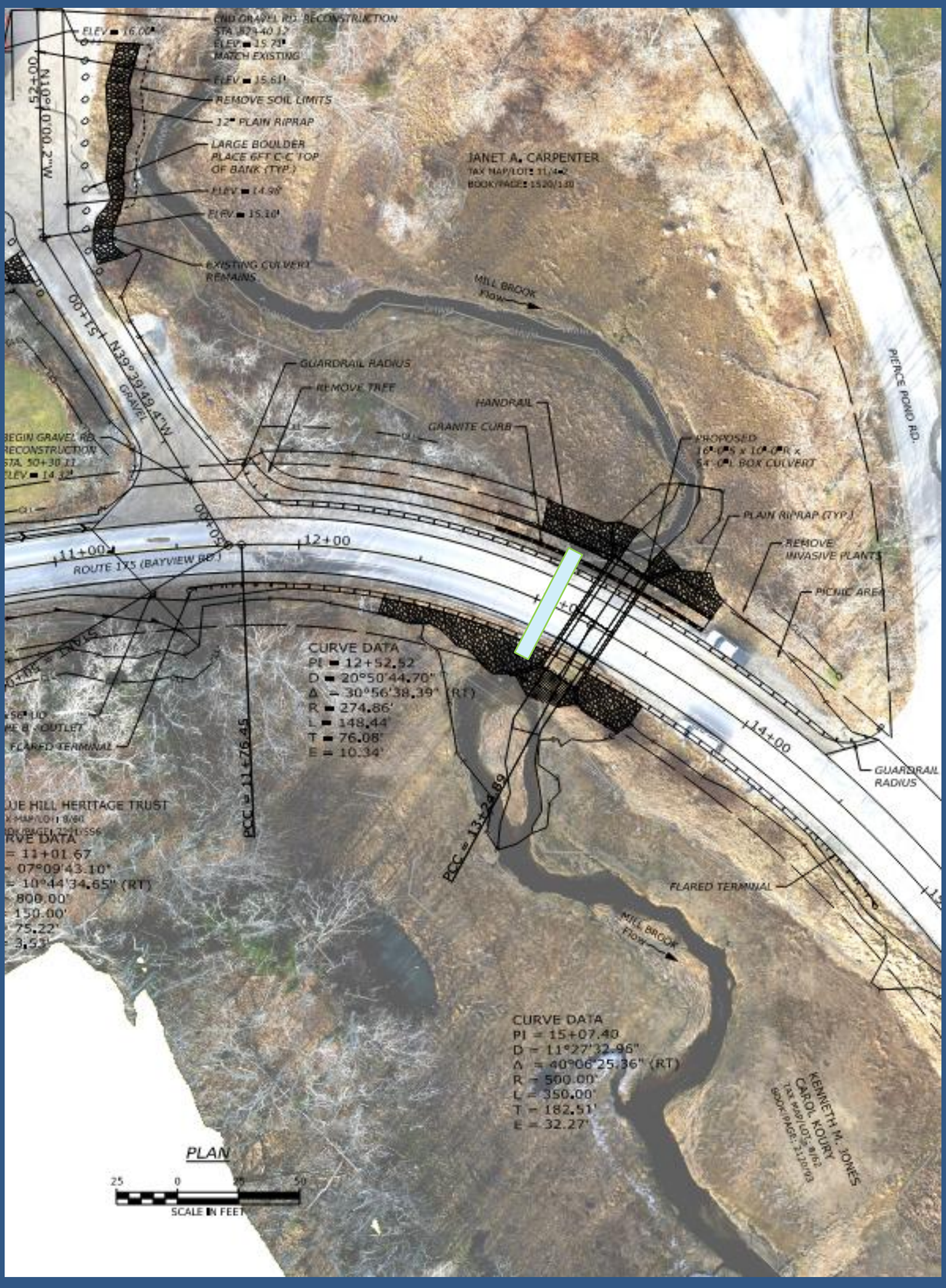
END GRAVEL RD. RECONSTRUCTION
STA. 52+40.12
ELEV. = 15.73'
MATCH EXISTING
ELEV. = 16.00'
ELEV. = 15.61'
REMOVE SOIL LIMITS
12" PLAIN RIPRAP
LARGE BOULDER
PLACE 6FT C-C TOP
OF BANK (TYP.)
ELEV. = 14.98'
ELEV. = 15.10'
EXISTING CULVERT
REMAINS
JANET A. CARPENTER
TAX MAP/LOT: 11/4-2
BOOK/PAGE: 1520/130
MILL BROOK
FLOW
GUARDRAIL RADIUS
REMOVE TREE
HANDRAIL
GRANITE CURB
PROPOSED
16'-0"W x 10'-0"R x
54'-0"L BOX CULVERT
PLAIN RIPRAP (TYP.)
REMOVE
INVASIVE PLANTS
PICNIC AREA
PIERCE POND RD.
BEGIN GRAVEL RD.
RECONSTRUCTION
STA. 50+30.11
ELEV. = 14.32'
GRAVEL
ROUTE 175 (BAYVIEW RD.)
11+00
12+00
14+00
CURVE DATA
PI = 12+52.52
D = 20°50'44.70"
Δ = 30°56'38.39" (RT)
R = 274.86'
L = 148.44'
T = 76.08'
E = 10.34'
PCC = 11+76.45
PCC = 13+24.89
FLARED TERMINAL
GUARDRAIL
RADIUS
MILL BROOK
FLOW
CURVE DATA
PI = 15+07.40
D = 11°27'32.96"
Δ = 40°06'25.36" (RT)
R = 500.00'
L = 350.00'
T = 182.51'
E = 32.27'
KENNETH M. JONES
CAROL KOURY
TAX MAP/LOT: 8/62
BOOK/PAGE: 2120/93
PLAN
25 0 25 50
SCALE IN FEET

MAINTENANCE OF TRAFFIC

- Short-term road closure (30 days or fewer) with detour
- Route 175 (Bayview Road), Route 166 (Castine Road), Gilpin Road, US Route 1 (Acadia Highway), Route 15 (Front Ridge Road), and Route 199 (North Penobscot Road)
- Shortest detour: approximately 21 miles long, 29 minutes to travel

REGULATORY PROCESS

- Maine Department of Environmental Protection (MDEP)
  - Natural Resources Protection Act (NRPA) Tier 3
- US Army Corps of Engineers General Permits for the State of Maine
  - Pre-Construction Notification
- Project proposes minor impacts to:
  - Tidal streambed
  - Coastal wetlands (salt marsh)
  - Freshwater wetlands

NRPA TIER 3 APPLICATION

- Copy will be available for public viewing at the Penobscot Town Office
- The application will be filed for public inspection on the DEP's website at: https://www.maine.gov/dep/mels/hub.html
- A request for public hearing to MDEP must be received within 20 days of an application being accepted as complete for processing by MDEP
- Public comment on the application with be accepted throughout the processing of the application
- Pending the required approvals, construction of the Project is anticipated to begin late winter/early spring 2026

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QUESTIONS?

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