Virtual Public Hearing

for

Modification or Alteration related to a Scenic Road

Replacement of the Sound Beach Avenue Bridge

over Cider Mill Brook

Bridge No. 03954

Town of Greenwich

Department of Public Works, Engineering Division

December 3, 2020
Binney Park Scenic Loop

- September 9, 2020 Planning and Zoning approved the Loop
- Loop includes portions Sound Beach Ave, Wesskum Wood Rd, & Arch Street
- Article 3, Sec. 11-13(c) :

  Procedures for making alterations or improvements.

  Any proposal for alteration or improvement of a scenic road, whether by public or private applicant, shall be submitted initially to the Planning and Zoning Commission, along with a map showing in detail the proposed alteration or improvement. The Planning and Zoning Commission may require the applicant to submit engineering or other technical reports documenting the need for the alteration or improvement and outlining potential alternative solutions. The Planning and Zoning Commission may hold a duly noticed public hearing on the application. The Planning and Zoning Commission shall submit findings of fact, the minutes of any hearing, and a recommendation to the Commissioner of Public Works.

  The Commissioner of Public Works shall give due consideration to the findings of fact and recommendations of the Planning and Zoning Commission, and shall hold a duly noticed public hearing regarding the proposed alteration or improvement. The Commissioner's decision with regard to a proposed alteration or improvement to a scenic road shall be in writing and shall state the reasons therefor.

- Aesthetic and historic appeal of the bridge will be maintained within design and safety requirements.
Project Purpose

Bridge Replacement
Sound Beach Avenue Bridge
(Bridge No. 03954)

Routine & Underwater Inspection:
Superstructure Rating of 4
(Poor Condition)
6/15/2011
6/11/2013
6/10/2015
6/01/2017
4/10/2019
FEMA Flood Insurance Rate Map

* Base Flood Elevation = 11’
Evidence of Flooding during a 1 Yr Storm (Riverine Event)

Photos taken 9/25/18 @ ~ 4 PM
2.91 inches rain in 24 hr period = 1 year storm

Looking SW from Haring Road onto SB Avenue

Looking North at the SB Avenue Bridge
Evidence of Flooding during a Tidal Event

Photos taken 11/15/20
*Submitted by a Greenwich Resident

Looking North from Wesskum Wood Road at Binney Park Pedestrian Bridge

Looking East from Binney Park at the SB Avenue Bridge
Existing Conditions - Section View

Existing Bridge Section

- Sidewalk to be relocated to the interior
- Exterior stone walls to be 3’-6” high from sidewalk instead of 2’ (ADA compliant)
- Bridge parapet ends to be curved instead of blunt ends

Existing Bridge Profile

- Center pier to be eliminated
- Debris to be removed

1925
1977
Proposed Conditions – Parapets & End Walls

Legend:
- Limits of Metal Guiderail
- Limits of Curved Masonry End Wall
Overall Proposed Plan
Proposed Conditions-Section View

Proposed Bridge Section

Proposed Bridge Profile

- Sidewalk on the interior
- Exterior stone walls to be 3'-6" high from sidewalk
- Curved end walls
- Unrestricted hydraulic opening
Additional Landscaping

Evaluation of the Potential Beneficial Impacts of the Project:
Restoration will include additional plantings along the stream bank to restore a riparian buffer.

Additional Plantings
- 7 trees
- 54 shrubs
- 120 plantings
Grading

Legend:

- Bridge Area
- Limit of regrading
- Area of regrading

*No trees to be affected

Proposed Bridge Plan

Proposed Road Section
Masonry Example

Wesskum Wood Road Bridge
Sound Beach Ave Bridge Existing Stone
Renderings

Existing Conditions
Renderings

Proposed Conditions with Full Stone Parapet
Renderings

Existing Conditions
Renderings

Proposed Conditions with Full Stone Parapet
P&Z Recommendations

- Handrail versus Full Stone Parapet
- Work with utilities to relocate
- Face bridge structure with stone
- Stone color and design to match Wesskum Wood Road Bridge
- Add soldier course stone layer at bottom of bridge
- Wingwalls to be lower with landscape fall protection treatment
Thank you!

Comments?