

Belt Parkway Bridges over Bedford Avenue, Nostrand Avenue, Sheepshead Bay Road, and Ocean Avenue

Community Board #15 Transportation Committee

Project Briefing

October 25, 2021



Agenda

- 1. Project Overview
- 2. Project Limits
- 3. Existing Conditions
- 4. Project Goals & Objectives
- 5. Design-Build Project Delivery
- 6. Schedule & Budget
- 7. Community Outreach
- 8. Next Steps



Project Overview

- Bridge reconstruction at
 - Sheepshead Bay Road
 - Ocean Ave
 - Bedford Ave
 - Nostrand Ave
- Roadway reconstruction between bridges
- Bridges were built in the 1940s with no major rehabilitation. Interim repairs have been performed:
 - Safety improvements in the 1980s
 - Incidental steel repairs in the 1990s
 - Miscellaneous steel and concrete repairs in 1998 at Ocean Ave
 - Miscellaneous steel and concrete repairs in 1998 and 2011 at Bedford Ave



Project Limits

Project Limits



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Bridge Elevation Views





Bridge Elevation Views





Roadway View





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Existing Conditions

Existing Conditions: Roadway



- Non-standard lane width (± 10.5')
- Non-standard shoulder (± 1')
- Non-standard stopping sight distance
- Existing stopping sight distance is adequate for ± 40 MPH
- Non-standard vertical clearance over Bedford Avenue
 - Posted for 11'-11"



Existing Conditions: Structures



Stringers and cap beams exhibit deterioration

Non-redundant piers



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Typical Existing Bridge Deterioration



Underside of Deck Deterioration



Joint Deterioration



Underside of Parapet (Nostrand Shown)



Cap Beam Deterioration





Goals & Objectives

Project Goals & Objectives

Address non-standard roadway and structural deterioration

Improve drainage facilities

Maintain traffic and minimize impacts during construction

Minimize environmental impacts

Improve pedestrian mobility and safety

Improve lighting underneath bridges

Provide aesthetics that keep character of this corridor section



Roadway Improvements

- Provide standard lane width
- Provide standard shoulder width
- Provide standard profile
- Improve drainage
- Improve pedestrian facilities underneath bridges
 - Remove sidewalk obstructions
 - Improved lighting and sightlines









Design Build Project Delivery

What is Design-Bid-Build?

Most previous NYCDOT projects have been developed through the **Design-Bid-Build** method of procurement.





What is Design-Build?

The Design-Build method of delivery seeks to streamline project delivery and foster innovation through procuring a team of contractors and designers to work together at strategic points throughout the project timeline.





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Why Design-Build?

During the Design-Build phase, a team of designers and contractors progress both the Final Design and Construction

Working together, they can produce a higher quality Final Design and Construction Plan, allowing more iterative and informed dialogue with the community and public stakeholders, as the project develops

Design-Build Phase





Why Design-Build?

Traditional Design Bid Build

Design



Design-Build

- Potentially accelerated project timelines
- Potentially Increased innovation
- More efficient resolution of public concerns

Procurement

What Does Design-Build Mean For You?

- Potentially accelerated project timelines
- Increased innovation leading to:
 - Minimized environmental impact
 - More context-sensitive designs
- Touchstones for input during Preliminary Design and the environmental process remain the same
- Touchstones for input during Final Design and Construction is an iterative process that addresses community concerns as they arise
- More efficient resolution of public concerns



Schedule & Budget

Schedule

Schedule

- Start of Preliminary Design May 2021
- Design approval September 2022
- Issue Request for Proposal March 2023
- Construction Notice to Proceed Fiscal Year 2024?
- Approximate construction completion Fiscal Year 2028?

Budget

- \$\$ TBD
- 100% funded
 - Federal/State/City



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Community Outreach

Community Outreach

Stakeholder Connections

- Community Boards
- Elected officials
- Bay Improvement Group and others
- Residences, businesses, BIDs
- Agency coordination
- First responder coordination





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Community Outreach

Public and Stakeholder Inpu Opportunities:

- Scoping meetings
- Elected official briefings
- Community Board meetings
- Public information meetings
- Contact database
- Newsletters
- Project website

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Belt (Shore) Parkway Bridges over Bedford, Nostrand, Ocean Aves. & Sheepshead Bay Ro

The New York City Department of Transportation (NYCDOT) Division of Bridges Belt (Shore) Parkway Design Build Program consists of four bridges immediately proximate to each other in the Sheepshead Bay community. West to east the bridges are: Sheepshead Bay Road, Ocean Ave., Bedford Ave., and Nostrand Ave. This area of the parkway is distinguished by its urban character, one of very few along this otherwise largely open parkway system. The bridges are situated in close proximity to well developed residential and commercial communities that are rapidly expanding with greater height and density along the entire corridor.

of the bridges were built in the 1940's and share similar design A Component Rehabilitation 4 ongoing maintenance bridges safe and "hlic. However, ~courred

is compatible with the parkway's important historic character, while also satisfying current highway safety and design standards.

A goal of this project is to maintain current vehicular capacity during construction within the right of way, while mitigating construction impacts on the ever more populous adjacent neighborhoods. The bridge designs will respect the historic character of the parkway in this area provide significant improvements to substandard roadway conditions improve aesthetics and landscaping and provide a cohesive treatment to all four bridges. Using the Design Build approach will enable NYCDOT to minimize the overall construction duration and achieve significant cost savings through tightly sequenced design and construction of these four structures.

As part of this process, NYCDOT is conducting an extensive comment



Sheepshea







Next Steps





Next Steps

Data collection (surveys, traffic studies, borings, etc.)

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- Alternatives development
- Environmental analysis
- Design Approval Document preparation
- Early 2022: follow up with Community Board
- Interim outreach if needed







