



Chadwick Beach Island Bridge (Strickland Blvd) over Barnegat Bay

Public Information Center #1

May 6, 2019



Engineering | Design | Planning | Construction Management



Today's Agenda

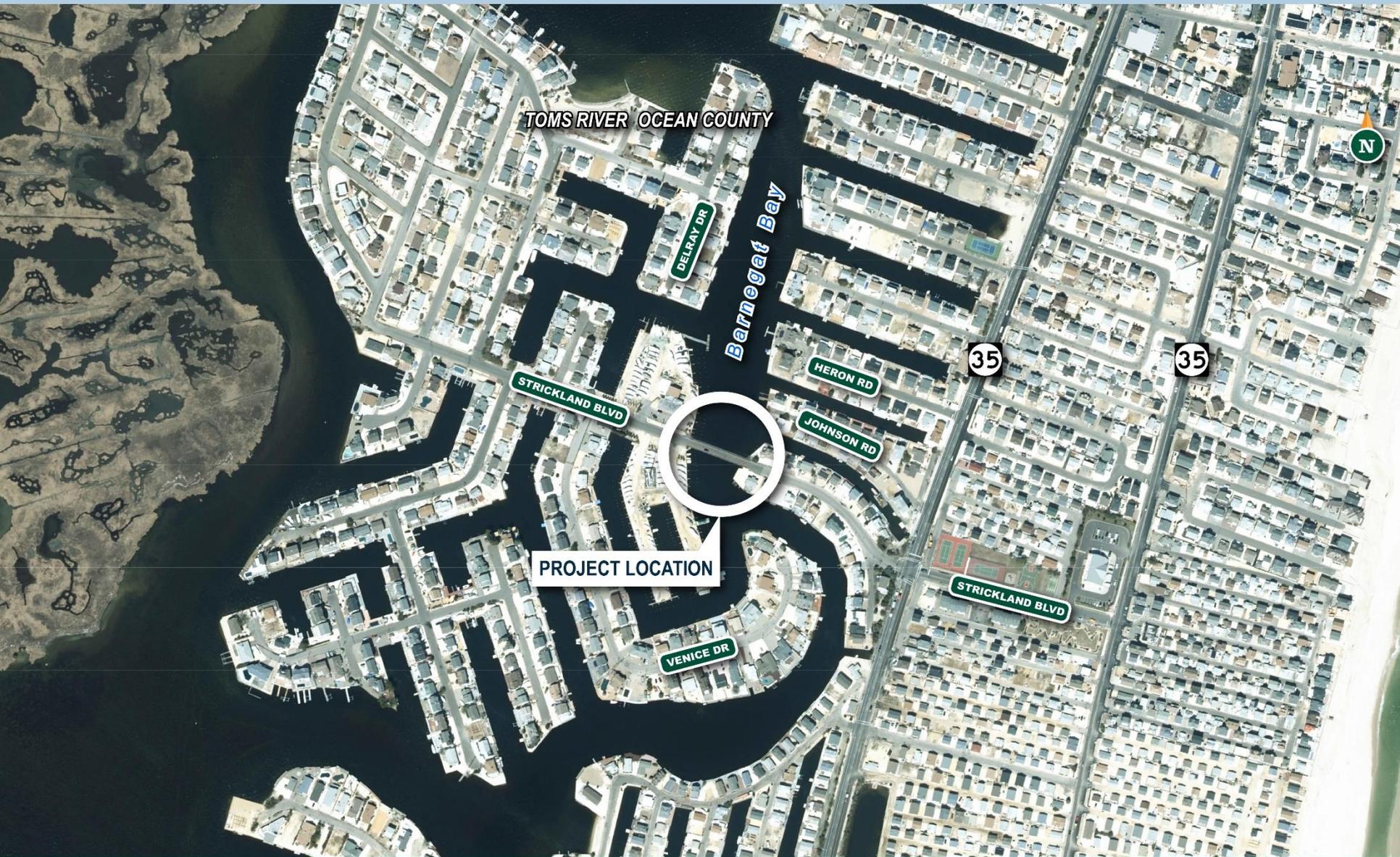
1. Local Concept Development Process
2. Existing Conditions
3. Environmental Considerations
4. Stakeholder Survey Results
5. Purpose and Need
6. Next Steps

Local Capital Project Delivery (LCPD)

Local Concept Development	Local Preliminary Engineering	Final Design / Right of Way Acquisition	Construction
Purpose and Need Statement	Approved Design Exception Report	Construction Contract Document and PS&E Package	Completed Construction
Data Collection and Environmental Screening Report	Cost Estimates (Final Design ROW and Construction)	Environmental Reevaluations	As-Built
Selection of Preliminary Preferred Alternative	Approved Environmental Document	Environmental Permits	Update and Finalize Design Communications Report
NEPA Classification	Approved Project Plan	Acquisition of ROW	Close-Out Documentation
Concept Development Report	Preliminary Engineering Report	Update Design Communications Report	
Create Design Communications Report	Update Design Communications Report		



Project Location



Project Location



Project History

- Chadwick Beach Island developed between 1953-1972.
- Timber Bridge constructed in mid-1950s by developer.
- Superstructure replaced by Ocean County in mid 1980s.
- Ocean County successfully applied to NJTPA for a grant to study alternatives to improve the structure.

NJTPA LOCAL CAPITAL PROJECT DELIVERY PROGRAM

OCEAN COUNTY

Chadwick Beach Island Bridge

Funding awarded: \$325,000

Project Details
This project will study alternatives for replacing or rehabilitating the 8-span timber bridge. The bridge has two lanes and is 220 feet long. The timber bulkheads and load-bearing piles are deteriorating and need to be replaced. The bridge width and sidewalk do not meet current standards.

About the Project Area
The bridge crosses the Barnegat Bay and serves as the only entry and exit point for residents of the more than 300 properties on Chadwick Beach Island. It was originally built in the 1950s. In 1985, new deck boards, pile caps and railings were installed.

The Local Capital Project Delivery Program
The NJTPA's Local Capital Project Delivery Program awards grants to counties and cities to investigate all aspects of a project, including environmental, right-of-way access, design and feasibility studies. Projects that complete this initial investigative work, called the Local Concept Development Phase, may be eligible for eventual construction with federal funds. For more information about the program, visit NJTPA.org.

NJTPA

Problem Statement

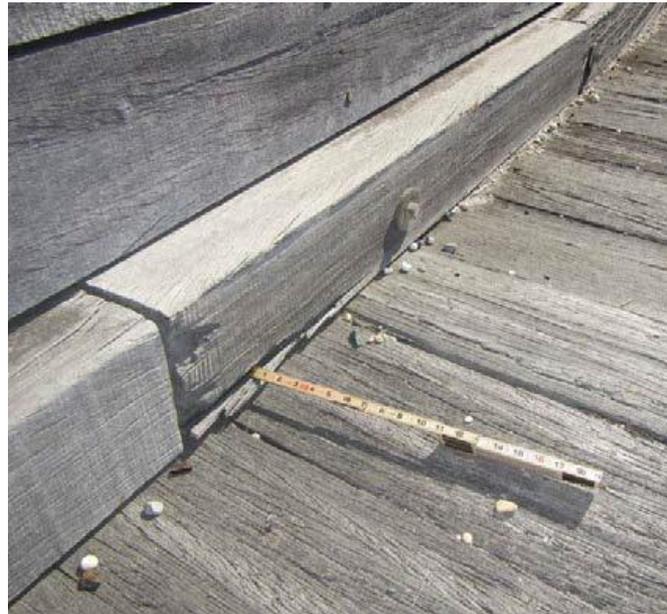
- All-timber structure
- Superstructure replaced in 1985 while maintaining existing substructure
- Section loss on piles, pier bents, and timber bulkheads



Existing Conditions



**Deterioration
Continues**



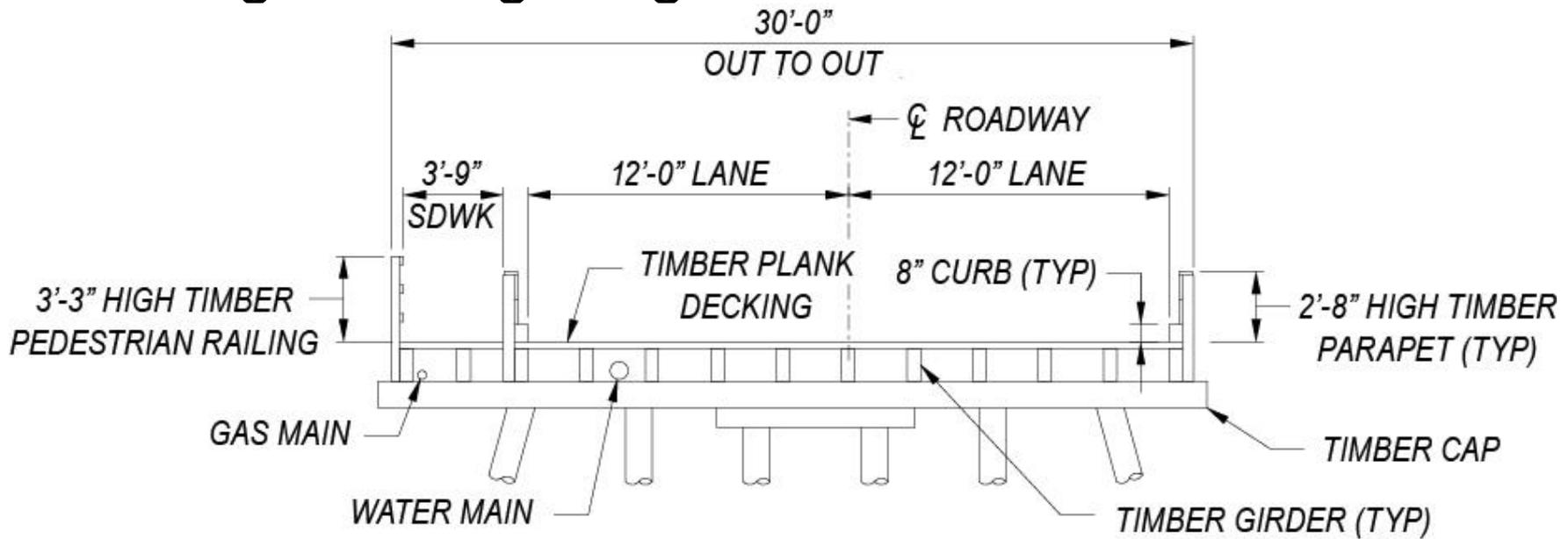
**Frequent
Maintenance and
Repair Required**



**Deck Boards
Splintering**

Substandard Design Elements (CSDE's)

- Shoulder Width (no shoulders)
- Bridge Width (should match approach roadway width)
- Bridge Railing Height



EXISTING TYPICAL SECTION
(LOOKING EAST)

Deficiencies



Guide Rail



Sidewalk Width

Environmental Constraints



- NOTES**
1. There are no NJDEP UST Sites, Head of Tide, Federal Open Space, State Open Space, County Open Space, NJDEP Deed Notices, NJDEP Classification Exception Areas, NJDEP Wetlands, NJDEP Chromate Sites, or Surface Water/Streams located within the extent of this map.
 2. The Coastal Plain Sole Source Aquifer and CAFRA Zone covers the entire extent of this map.

Project Area	Mapped Tidelands	Upper Wetland Boundary	Threatened & Endangered Species
Historic Districts	Historic Fill	Known Contaminated Site	100-Year Floodplain
Historic Properties			

Threatened & Endangered Species in or near the Project Area:

SE: Rank 4: Least Tern
 ST: Rank 3: Black-crowned Night-heron
 ST: Rank 3: Yellow-crowned Night-heron
 ST: Rank 3: Osprey

Scale: 1" = 200'

Environmental Considerations

- Noise and Air
- Natural Ecosystem
- Cultural Resources
- Hazardous Waste (Chadwick Island Marina)
- Land Use/Socioeconomics
- Environmental Justice

Environmental Permits

- NJDEP – CAFRA/Combined Coastal
- NJDEP - Tidelands
- US Coast Guard
- US Army Corps of Engineers



**US Army Corps
of Engineers.**

Stakeholder Survey Results

- Numerous Year-Round Residents
- 90% - Nav clearance OK
- 1/2 - Sidewalk both sides
- Sidewalk too narrow
- Timber boards too loud!
- Keep timber deck!
- Provide bike access
- Sent to 450 Residents/
Received 167 Responses!

Summary

CHADWICK BEACH ISLAND BRIDGE - COMMUNITY INPUT SURVEY

1. Do you live on Chadwick Beach Island? (Please check)

59 Yes - Year-round resident 96 Yes - Part-time Resident 1 No - I dock my boat at the marina.
 1 No - My home is a Rental Property 8 No-My property is located off the island.

2. How often do you visit your property during the off-season (October - April)?

44 Daily 45 Weekly 52 Monthly 13 Rarely

3. Do you rent out your property?

84 No - Year-round resident 7 Yes - Summer months only
 1 Yes - Long term rental including winter 0 Winter months only 75 Never

4. If you are a full-time resident, do you have school-age children?

3 Yes 107 No

5. Which mode of transportation do you use most often when leaving Chadwick Beach Island?

150 Car 37 Bicycle 24 Walk 1 Other

6. Do you own a marine vessel? 102 Yes 57 No
 If Yes, do you travel under the Chadwick Beach Island Bridge?
 28 Often 38 Sometimes 42 No
 If Yes, what is the height of the marine vessel? _____ Feet

Type of marine vessel (check all that apply)

78 Powerboat 36 Jet-ski 38 Kayak 5 Sailboat 28 Recreational 0 Commercial

7. Do you think the underclearance of the bridge is acceptable?

79 Yes 82 Yes, larger vessels can travel around the island to reach their destination.
 23 No, I think it should be increased to accommodate larger vessels

8. Do you think sidewalks should be provided on both sides of the bridge?

73 Yes 88 No, sidewalk on only one side is sufficient

9. What are key issues that should be considered as part of the study, as you see them?

78 Bridge aesthetics 122 Safety 61 Project Impacts
 34 Lighting 37 Other _____

10. Can you be available to attend project meetings if they are held during the non-summer months?

99 Yes 57 No

11. Are you interested in becoming a stakeholder representing your neighborhood, organization, business, business, or yourself (attend 2-3 meetings including the non-summer months)?

a. If so, what days of the week are preferred? 25 Mon 30 Tues 57 Yes 99 No
 b. If so, what time of day for meeting? 18 Morning 22 Afternoon 28 Evening 6-8 23 Fri 17 Evening 7-9

12. Would you be interested in receiving more information (email, websites, social media etc.) about the project as the bridge study progresses?

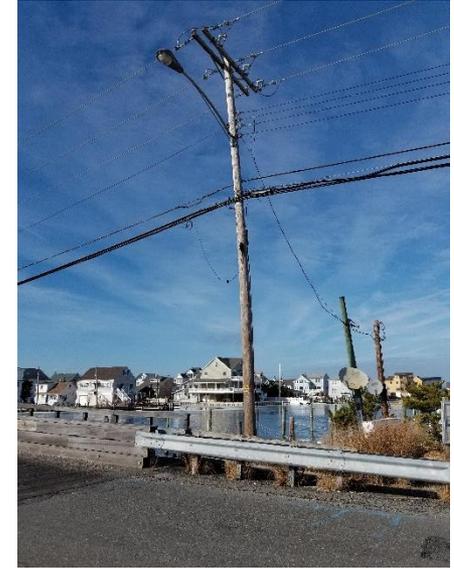
160 Yes 3 No If Yes, please provide contact information (phone/email/ mailing address) _____

13. Are any special provisions needed for you to attend a meeting such as mobility, hearing, visual or language assistance?

2 Yes 139 No If Yes, please indicate _____

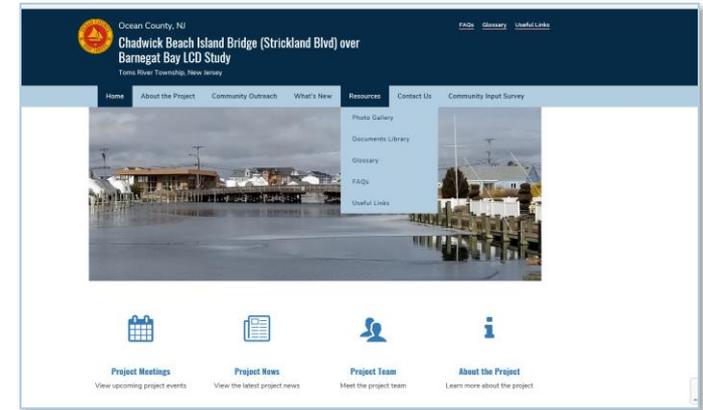
Work Completed to Date - Data Collection

- Stakeholder Survey
- Completed Field Survey and Developed Project Basemapping
- Traffic Counts
- Identified Controlling Substandard Design Elements and Deficiencies
- Confirmed Utilities & Company Contact Information
- Completed Environmental Screening



Work Completed to Date - Public Outreach

- Stakeholder Survey Completed
- Developed Project Website (chadwickbeachbridge.com)
- Developed Public Information Action Plan
- Held meeting with Toms River officials on December 6, 2018
- Held Stakeholders Meeting on February 21, 2019.



Purpose & Need Statement



Project Purpose & Need



Goals and Objectives

Purpose & Need



The purpose of the Chadwick Beach Island Bridge Project is to:

- ***restore the structural, geometric, and operational integrity of the bridge*** in compliance with current design standards and
- ***provide a safe, efficient, and reliable crossing for all modes of transportation.***

The bridge serves as the only access for Chadwick Beach Island Residents.

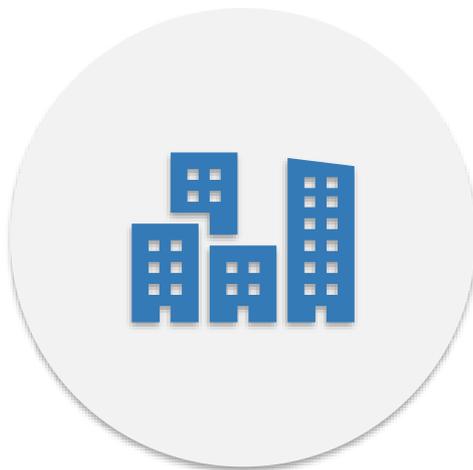
Goals & Objectives

- *Maintain island access to the greatest extent practical and minimize impacts to residents by optimizing the construction duration.*
- *Avoid or minimize impacts to vehicular and marine traffic, pedestrians and bicyclists during construction.*
- *Strive to provide vertical underclearance to allow fireboat access beneath the bridge.*
- *Avoid or minimize social, economic and environmental impacts.*
- *Enhance bicycle and pedestrian compatibility in this recreational community.*
- *Consider the context of the project area and identify aesthetic enhancements.*

Purpose and Need



**Met with
Community
Stakeholders**



**Public Information
Center
Today!**



**Confirm
Purpose &
Need**

Next Steps

- Develop Alternatives Based on P&N
 - Rehabilitation or Bridge Replacement
 - *Construction Methods and Duration*
- Bridge Widths
- Navigational Clearance
- Sidewalks
- Assess Impacts
- Community Input

Next Steps - Development of Alternatives

- Navigable Clearance – Fire Boat Access
- Bridge Width
- Sidewalk Locations
- Construction Duration
- Maintenance of Traffic
- Project Impacts
 - Environmental/Permits
 - Utility
 - Right-of-Way
 - Community



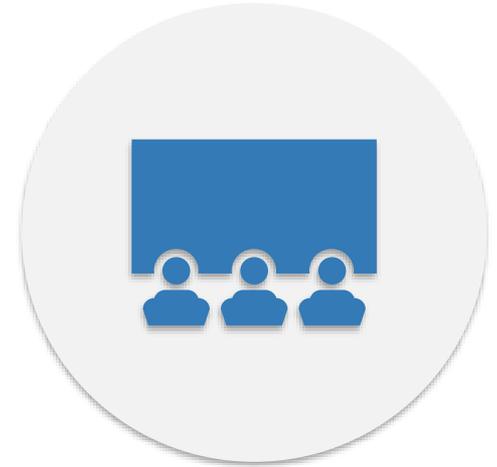
Next Steps - Develop Alternatives



**Present
Alternatives to
Toms River
Officials**
Spring 2019



**Discuss
Alternatives with
Community
Stakeholders –
Select Preliminary
PPA**
Summer 2019



**Present
Preliminary
PPA at Public
Information
Center**
Late Summer
2019

Thank you! Questions?

Public Information Center #1

May 6, 2019



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