

Monmouth County Bridges

W-7, Green Avenue Bridge, Debbie's Creek

W-8, Fisk Avenue Culvert, Debbie's Creek & The Glimmer Glass

W-9, Brielle Road Bridge, The Glimmer Glass
Boroughs of Brielle and Manasquan



April 2016 Stakeholder Meeting

Manasquan Borough Hall

April 21, 2016, 2 PM



STAKEHOLDER MEETING: APRIL 21, 2016

Agenda

- Welcome / Introductions
- Purpose of Meeting / Format
- Project Delivery Process
- Existing Conditions
- Project Purpose & Need / Goals & Objectives
- Next Steps
- Stakeholder Input
- Meeting Review / Action Items



Project Delivery Process

PHASES	Scoping	Final Design / Right of Way Acquisition	Construction
	MAJOR TASKS		
	Purpose and Need Statement	Environmental Reevaluations	Complete Construction
	Data Collection & Environmental Screening	Environmental Permits	As-Built
	Prepare Environmental Studies	Acquisition of ROW	Close-Out Documentation
	Alternative Analysis / Evaluation	Construction Contract Documents and PS&E Package	
	Approved Environmental Document		
	Cost Estimate (Final Design, ROW and Construction)		



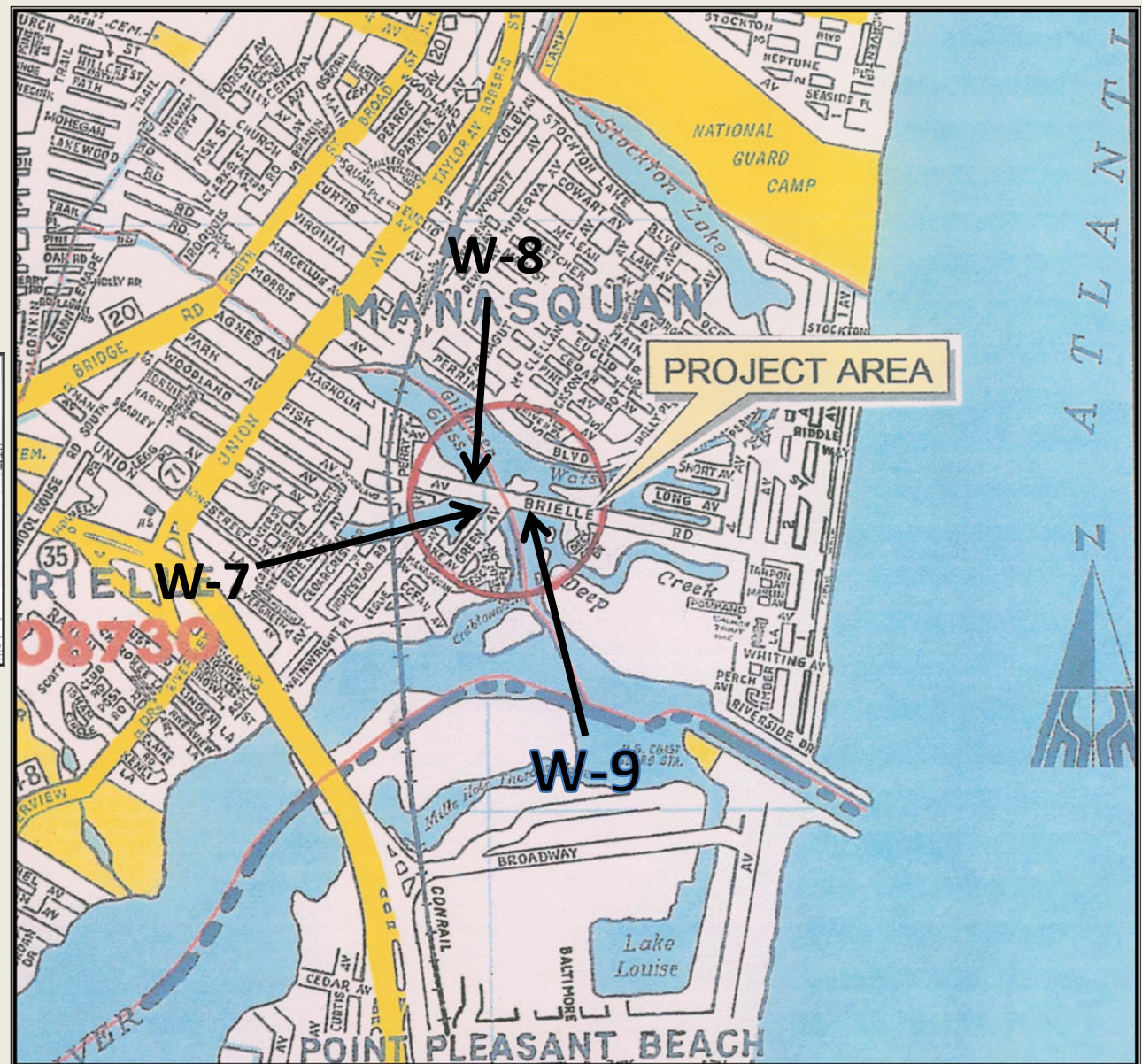
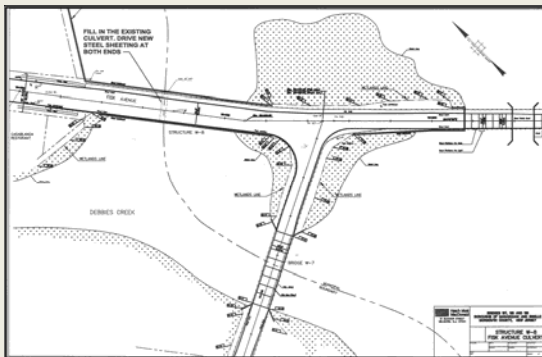
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Location Map



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W-7: Green Avenue over Debbie's Creek

KEY NOTES:

- **CONSTRUCTED 1944**
- **120' LONG FIXED (7 SPAN) TIMBER BRIDGE**
- **ROADWAY WIDTH 21.7'**
- **2.9' WIDE SIDEWALK**
- **10" FORCE SEWER MAIN**



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W-7: Green Avenue over Debbie's Creek



CONCERNS:

- NARROW BRIDGE ROADWAY WIDTH (21.7')
- SUBSTANDARD LIVE LOAD CAPACITY
- SUBSTANDARD RAILINGS
- 2013 NBIS REPORT SUFFICIENCY RATING OF 18.7



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W-7: Green Avenue over Debbie's Creek



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W-7: Green Avenue over Debbie's Creek

Existing Conditions



Splits and Sagging in
Timber Stringers
and Pile Bent Cap

Severely Decayed Pile
Bracing and Reduced Pile
Cross Sections
at Waterline



W-7: Green Avenue over Debbie's Creek Existing Conditions

Wide Split in Pile



Heart Rot in Pile Bent Cap

W-8: Fisk Avenue Culvert Between Debbie's Creek & The Glimmer Glass

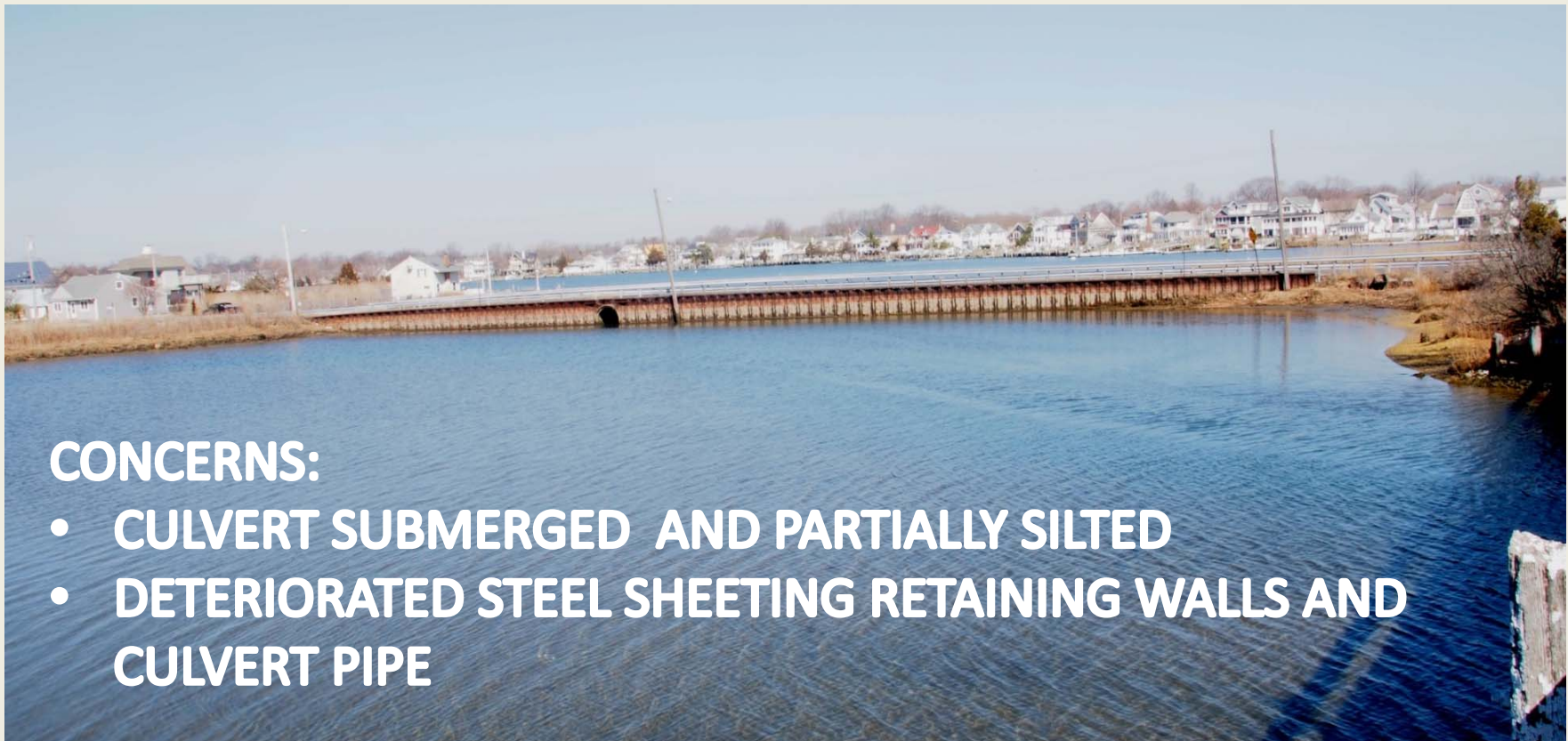
KEY NOTES:

- **CONSTRUCTED 1946**
- **80" x 80" FLAT BOTTOM REINFORCED CONCRETE PIPE STRUCTURE**
- **34.8' CURB TO CURB WIDTH**
- **6' WIDE SIDEWALK**



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W-8: Fisk Avenue Culvert Between Debbie's Creek & The Glimmer Glass



CONCERNS:

- CULVERT SUBMERGED AND PARTIALLY SILTED
- DETERIORATED STEEL SHEETING RETAINING WALLS AND CULVERT PIPE



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W-8: Fisk Avenue Culvert

Between Debbie's Creek & The Glimmer Glass



STAKEHOLDER MEETING: APRIL 21, 2016

W-8: Fisk Avenue Culvert

Between Debbie's Creek & The Glimmer Glass



Fisk Ave. W8, looking east towards W-9



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W-8: Fisk Avenue Culvert Existing Conditions



Extensive Cracking in Pipe
Walls with Rusting and
Exposed Reinforcement

Spalled Pipe Ends with
Exposed Reinforcement



W-8: Fisk Avenue Culvert

Existing Conditions

Corroded Steel
Sheet Piling and Pile Cap



Reoccurring Cracking over
Culvert Indicating
Settlement/Deformation



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W-9, Brielle Road over The Glimmer Glass

KEY NOTES:

- 1889 - 590' LONG FIXED TIMBER TRESTLE BRIDGE
- 1938 - BASCULE MOVABLE SPAN INSERTED
- 1950 - MAJOR RECONSTRUCTION & REDUCED TO 279' LENGTH
- 2008 - NJ & NATIONAL REGISTERS OF HISTORIC PLACES
- 2014 - EMERGENCY INTERIM REPAIRS TO TIMBER APPROACH SPANS & PILES



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W-9, Brielle Road over The Glimmer Glass

CONCERNS:

- **NARROW BRIDGE ROADWAY WIDTH (20' & VARIES)**
- **SUBSTANDARD LIVE LOAD CAPACITY**
- **SUBSTANDARD RAILINGS**
- **SUBSTANDARD VERTICAL CLEARANCE**
- **SUBSTANDARD & NON-REDUNDANT MECHANICAL & ELECTRICAL SYSTEMS**
- **2013 NBIS REPORT SUFFICIENCY RATING OF 2.0**



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W-9, Brielle Road over The Glimmer Glass



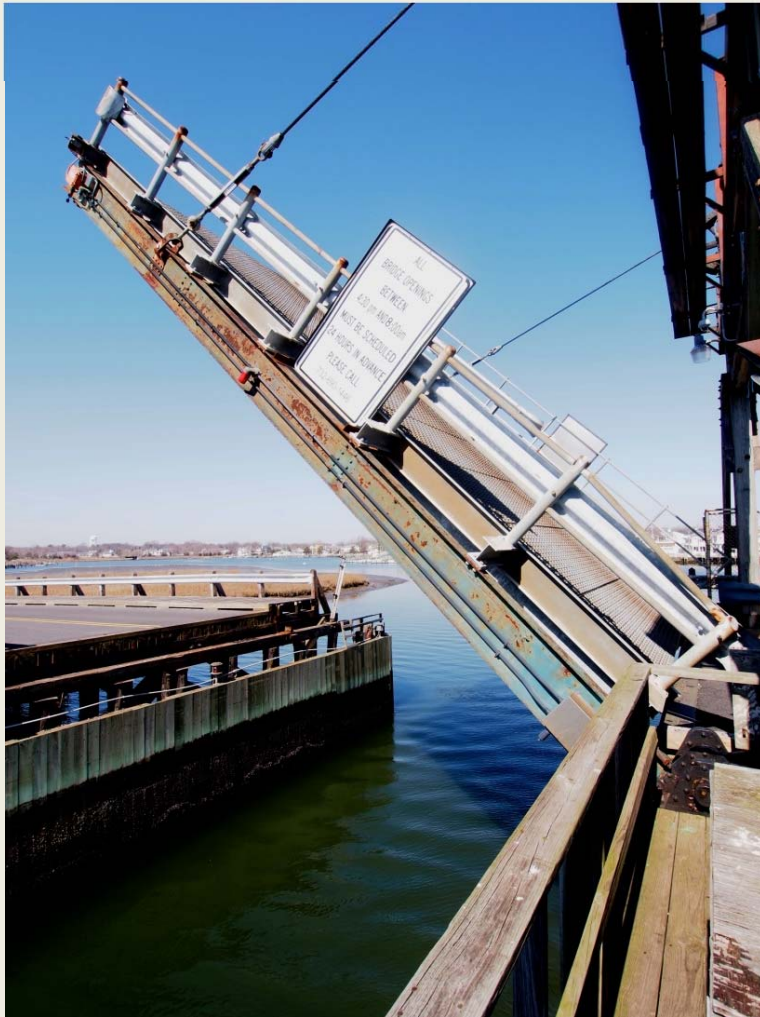
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W-9, Brielle Road over The Glimmer Glass



STAKEHOLDER MEETING: APRIL 21, 2016

W-9, Brielle Road over The Glimmer Glass

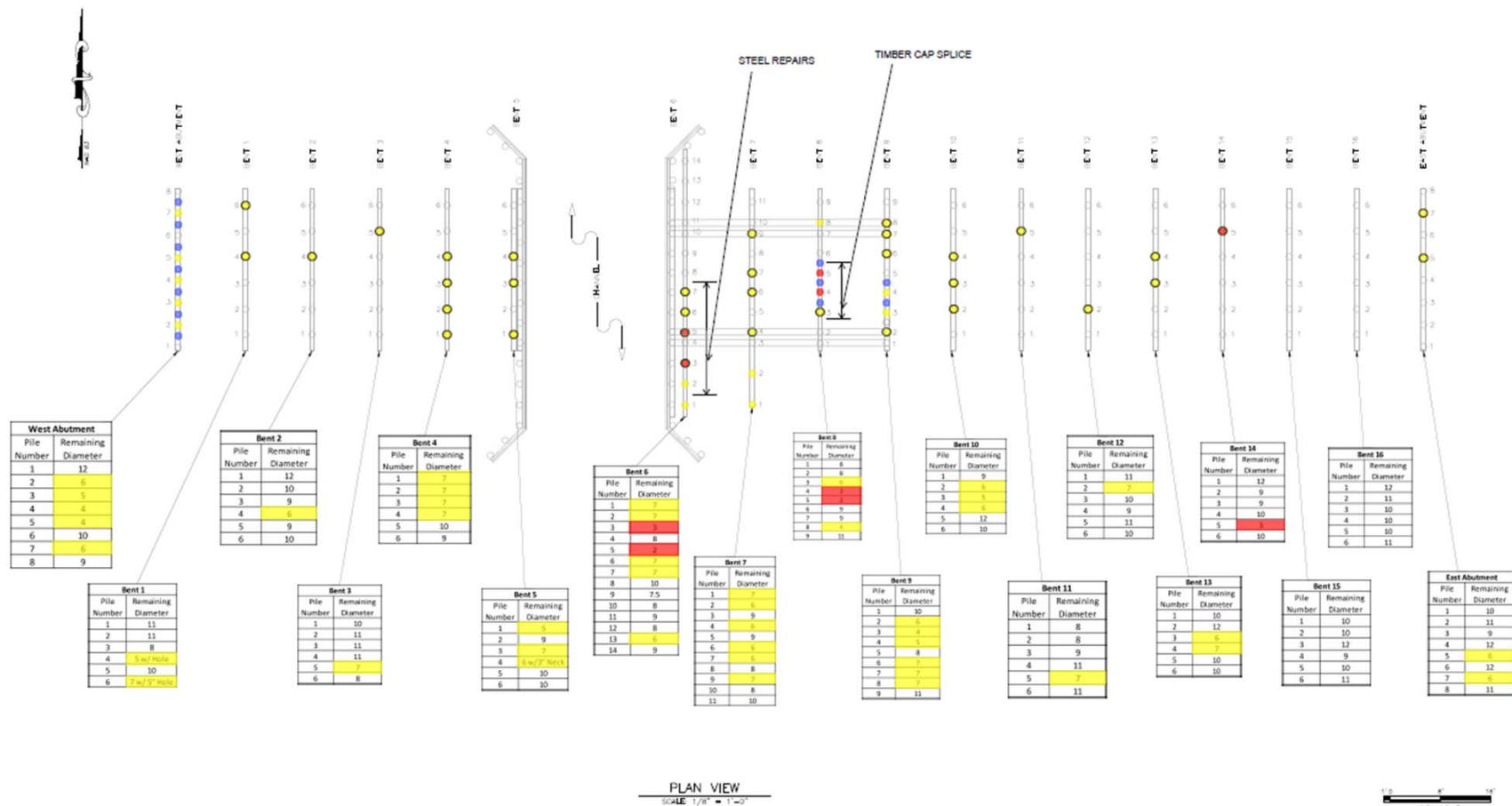


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2014 Failure



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LEGEND	
●	PILE WITH A DIAMETER OF 7" - 4" REMAINING
●	PILE WITH A DIAMETER OF 3" - 2" REMAINING
●	NEW TIMBER PILE INSTALLED
	PILE JACKET REINFORCEMENT

NO.	REVISIONS	DATE
COUNTY OF MONMOUTH DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DIVISION OF ENGINEERING & TRAFFIC SAFETY JOSEPH M. ETTORE, COUNTY ENGINEER		
BRIDGE W-9 (GLIMMER GLASS BRIDGE) ON BRIELLE ROAD OVER THE GLIMMER GLASS IN THE TOWNSHIP OF MANASQUAN/ BOROUGH OF BRIELLE MONMOUTH COUNTY NEW JERSEY		
2014 PILE REPAIRS - CONDITIONS		
scale as noted	drawn by: (JAE)	checked by: (JAE) date: 02/20/2016
JOSEPH M. ETTORE, P.E. PROFESSIONAL ENGINEER		1
N.J. REG. NO. 24C032394		1

Bent 8 - Pile 4



Video slide



2014 Repair



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Project Purpose and Need *(definition)*

- **Project Purpose** identifies the intent of the project undertaking
- **Project Needs** identify specific deficiencies and critical concerns to be addressed by the project
- Projects typically also have **goals and objectives** that are strived for as part of the project; not all may be achieved by the final selected alternative



Project Purpose

To provide safe and efficient crossing for all modes of travel within the project limits by addressing

Geometric,

Structural,

Operational,

and Maintenance deficiencies of:

- Bridge W-7 (Green Avenue over Debbie's Creek)
- Structure W-8 (Fisk Avenue Culvert)
- Bridge W-9 (Brielle Road over The Glimmer Glass).



Project Needs

- Bridge Needs (including emergency vehicles, clearances, bridge width)
- Roadway Needs (Lane/Shoulder Widths)
- System Linkage (Emergency Response, Coastal Evacuation, Marine Access)
- Pedestrian and Bicycle Compatibility / ADA



Project Goals and Objectives

*To Be Further Refined with input
from Stakeholders / Public in 2016*

- Provide ADA compliant pedestrian facilities and crossings with connectivity
- Reduce the safety risks for all users
- Reduce the frequency of major bridge maintenance activities
- Maintain traffic with minimum disruption during construction

Slide 1 of 2



Project Goals and Objectives

- Avoid or minimize social, economic and environmental impacts
- Avoid, minimize and, if necessary, mitigate adverse effects on the National and NJ Register of Historic Places listed Bridge W-9
- Incorporate Context Sensitive Solutions approach into the design

*To Be Further Refined with input
from Stakeholders / Public in 2016*

Slide 2 of 2



Alternatives to be Considered

- Alternatives to be investigated generally include:

No Build

Rehabilitation

Replacement

- Alternatives will be evaluated against various criteria to identify the Preliminary Preferred Alternative (PPA)
 - Social, Economic & Environmental Impact
 - Meet Purpose & Need / Consider Goals & Objectives



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Next Steps

- **Public Outreach**
 - **Project Website**
 - Project Information
 - Opportunity for Comment
 - **Re-Introducing the Project / 2016 Outreach Sessions**
 - Local Officials Briefings (Manasquan & Brielle) **March 2016**
 - Stakeholder Meeting (Invited stakeholders) **April 21, 2016**
 - Public Information Center (Manasquan & Brielle) **May 24, 2016**
 - o Two Meetings (afternoon & evening)
 - o 30 day Post Comment Period
- **Incorporate Comments**



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Next Steps

- **Development of PPA – Each Structure**
- **Public Outreach**
 - **PPA / 2016 Outreach Sessions**
 - Local Officials Briefings (Manasquan & Brielle)
 - Stakeholder Meeting (Invited stakeholders)
 - Public Information Center (Manasquan & Brielle)
 - Two Meetings (afternoon & evening)
 - o 30 day Post Comment Period
 - o Team Comment Responses
- **Incorporate Comment Responses**



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Next Steps

- **New Jersey Registers Authorization**
- **Cultural Resource / Section 106 Process**
- **Final Alternative Analysis Report**
- **NEPA Process**
- **Federal Authorization For Final Design**



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Stakeholder Input

- **Comments**
 - **Existing Conditions Feedback / Sharing of Information / Knowledge of Study Area**
 - **Opportunities**
 - **Constraints**
 - **Concerns**
- **? Questions ?**
- **Additional Opportunity to Comment at Public Information Center on [May 24, 2016](#)**



Stakeholder Feedback Session



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Meeting Review / Action Items

- Stakeholder Summary /Action Items
 - Any new Stakeholders?
 - Meeting Responses
- Project Team Summary /Action Items
 - Meeting Notes / Summary
 - Incorporate Feedback into Alternative Analysis
 - Public Information Center



Thank you for your input and continued participation in the Monmouth County Bridges W7, W8 and W9 Project



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