

Design-Build Project for Indian River Inlet Bridge

Informational Meeting

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Informational Meeting, November 14, 2007

Project Overview

Project Description

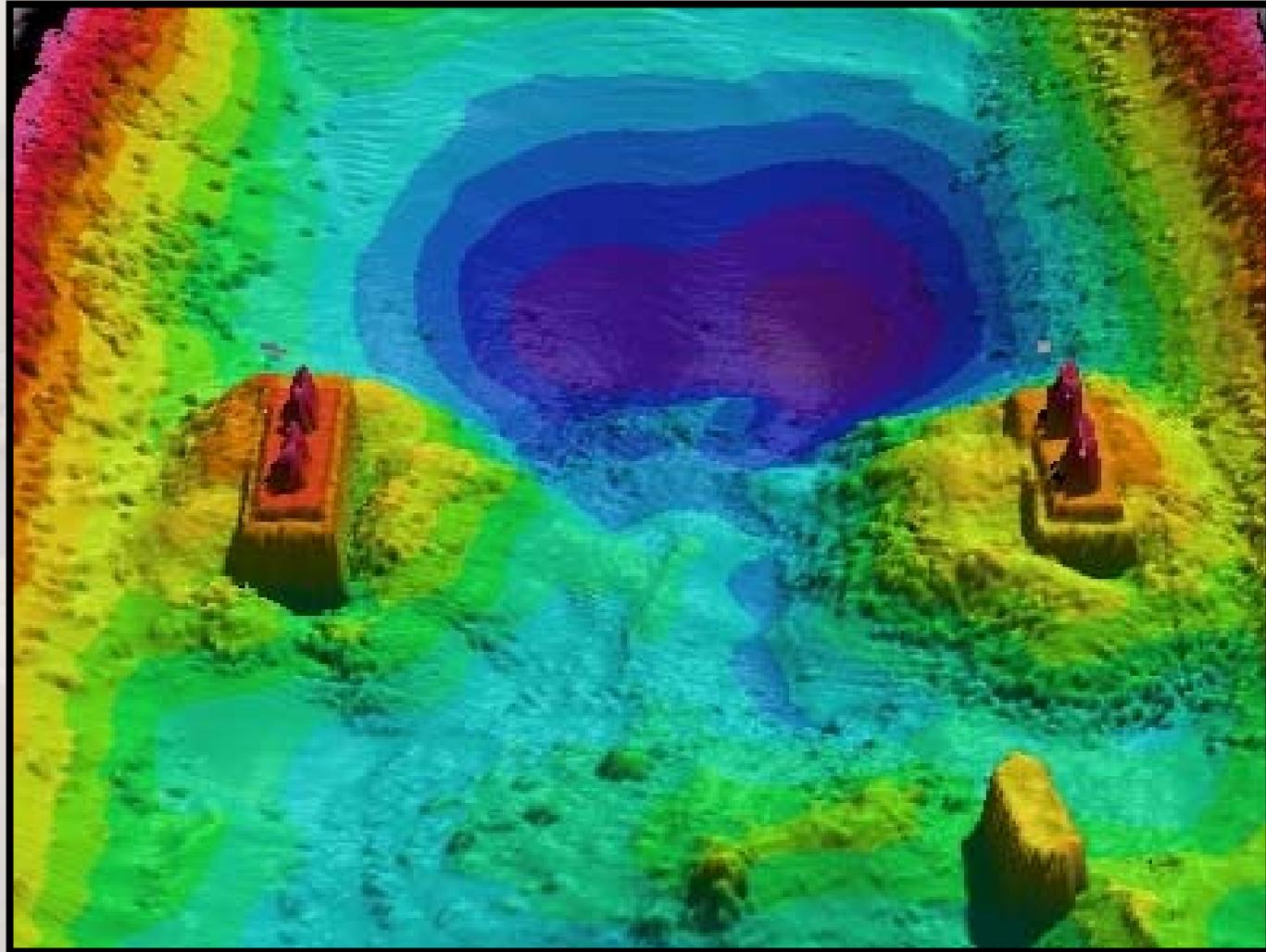
- Coastal Area Between Bethany Beach and Dewey Beach Delaware.
- New Bridge on New SR-1 Alignment over Indian River Inlet



Project Overview

Project Need

- Severe Scour Conditions within Inlet – Depths Greater Than 100'



Design-Build Overview

- Project Status
- Design-Build Goals
- Design-Build Scope
- Design-Build Schedule
- Design-Build Budget



Project Status

- Original Design Completed in 2005
 - New Alignment West of Existing
 - Right-of Way Obtained
 - Permitting Process Completed
 - Utility Coordination Completed
 - Traffic Phasing and Roadway Work
 - Park Improvements Coordinated
 - Extensive Public Involvement
 - four (4) Public Information Workshops and
 - two (2) Design Charettes
 - Single Rib Cable-Supported Arch Bridge Selected

Project Status



- Separate Contracts For Roadway, Bridge, Park, Utility and Demolition Work
- Roadway Construction Contract On-going for Past 2 Years
- Bridge Design Phase completed and advertised in 2005
 - Appeared only 1 bidder – without competition bid projected too high (\$200 mil +/-)
 - October 4, 2005 bids cancelled
- July 5, 2006 Advertised Design-Build Bridge Contract
- February 23, 2007 Price Proposals Opened (Under \$130 mil Budget)
- April 26, 2007 DelDOT Issued Decision not to Award
- June 2007 Project-Specific Bond Bill Language Adopted
- October 2007 Design Build Scope Modifications Finalized
- October 29, 2007 Bridge Contract Re-Advertised

Design-Build Goals

Project Goals

- Issue NTP by Summer 2008
- Bridge Available to Traffic no later than December 31, 2011
- Maintainable, Easily Inspectable, Long-Lasting Bridge
- High Quality, Aesthetic Bridge
- Safe Construction
- Project that is Sensitive to Community , Environment, and Park
- Project **within or under** Budget
- Evaluate Design-Build Deliver Method

Design-Build Scope

Design-Builder's Primary Responsibilities

- Design Component
- Construction Component
- Quality Control and Inspection

Design-Build Scope

Design Constraints

- Geometrics/Materials

- Maintain Horizontal/Vertical Alignments
- Typical Section (Number and width of lanes, shoulders, sidewalks)
- Vertical Underclearance over Inlet (45' above M.H.W. of 0.82')
- Minimum 900-foot Clear Span over Inlet
- Overall Bridge and Project Length (2600 feet +/-)
- Minimum Bottom Chord Elevation of 11.0 feet +/- at Bridge Ends
- Maintain Existing/Proposed Right-of-Way
- No Exposed Structural Steel Will Be Permitted
- Flexibility in Bridge Type and/or Style

Design-Build Scope

Other Design Issues

- Utilities
 - Sand By-Pass Provisions
 - DelDOT ITMS Provisions
 - Bridge Mechanical/Electrical Systems
 - Aerial 69 kV Three Phase Electrical Transmission Line to Remain
- Permits
 - Coast Guard Coordination
 - Federal Aviation Administration (FAA)
 - Requests for Extensions by DelDOT
 - Modifications or New Permits by Design-Builder

Design-Build Scope

Other Design Issues

- Public Outreach
 - Primarily Informative
 - Solicitation of Public Comments will be Voluntary
 - Technical Proposal Value for Outreach Efforts

Design-Build Scope

Design Expertise Required

- Hydraulics/Coastal Engineering/Scour Analysis
- Geotechnical Engineering
- Structural/Bridge Engineering
- Mechanical/Electrical Engineering
- Concrete Specialist (Mass Concrete and Grouting)
- Wind Engineering and Testing
- Environmental Coordinator
- Public Outreach Specialist

Design-Build Scope

Construction Requirements

- Construction Manager
- CPM Scheduler
- Safety Manager
- Traffic Control Supervisor (Minimal involvement)
- Construction Engineering/Survey
- Record/As-Built Drawings
- Design-Appropriate Specialty Personnel

Design-Build Scope

Quality Control and Inspection

- Independent QC Firm
 - Quality Control Manager
 - Design QC Manager
 - Appropriate Support Personnel
 - Construction QC Manager
 - Adequate Inspection Staff
 - Materials Testing

Design-Build Scope



Ineligible Firms

- Figg Bridge Engineers, Inc.
- T.Y. Lin International
- Wallace, Montgomery & Associates
- Schnabel Engineering
- West Wind Laboratories, Inc.
- Henry G. Russell, Inc.

Design-Build Schedule

Schedule Constraints

- Statements of Qualifications Due December 19, 2007
- Short List Announced January 11, 2008 (No more than 3 Teams)
- Issue Request for Proposals January 30, 2008
- Concept Plans Presented February 25 through 29, 2008
- Final Technical Proposals Due April 10, 2008
- Final Cost Proposals Due May 1, 2008
- Anticipated Award No Later than May 31, 2008
- Substantial Completion (Bridge Available for Traffic) by December 31, 2011
- Contract Duration Approximately 3 ½ years (Maximum)

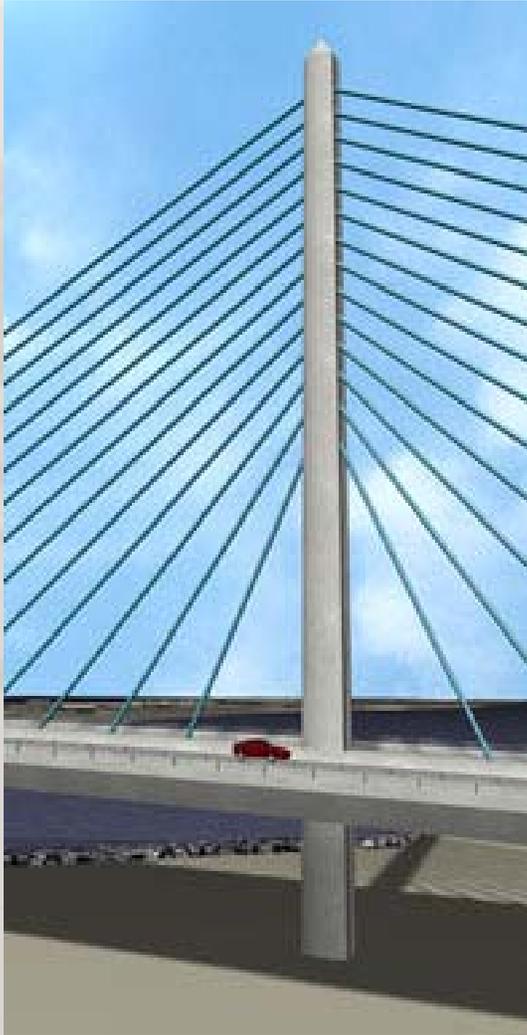
Design-Build Budget



Budgetary Goals

- Current Budget Goal of \$150 Million for Design-Build Contract
- Budget will be used as the benchmark for Scoring of Price Proposals
- Stipend of \$600k to Unsuccessful Responsive Proposers

Design-Build Project



Questions?

Project Website – www.irib.deldot.gov