

Grayden Paul Bridge Repair Project



Why?

- **Bridge is 52 Years Old**
 - **Has never had any major rehabilitation**
 - **Original Drive Systems in Place**
 - **Needs to Remain Serviceable for 10+ years**
- **Projected Let Date for R-3307 is FY 2016**
 - **Construction Time = 3 to 4 Years**
 - **Grayden Paul Bridge will have to remain in operation until the completion of R-3307**

Scope of Project

- **Replace the Steel Grid Floor of the Bascule Spans**
- **Structural Steel Repairs to Various Components**
- **Replacement / Repair of the Center Lock Assemblies**
- **Cleaning and Painting of Structural Steel**

Project Timeframe

- **Bids will be opened on December 17, 2009**
 - **Floating Date of Availability – Contactor has a max. of 2 ½ months to obtain all necessary permits and submittals needed prior to starting work**
 - **SSPC QP-2 Cert. – “Lead Abatement Cert.”**
 - **Containment Plans**
 - **Wash Water Disposal Plans**
 - **Waste Handling of Paint and Abrasives Plans**
 - **Under Structure Work Platform Plans**
 - **Structural Shop Drawings Approvals**
 - **Work Schedule**
- **Work must start no later than March 1, 2010**
- **All Work must be complete by May 1, 2010**

Construction Sequence

- **Phase 1**
 - **Bridge will remain operable. Roadway will remain available to traffic with night time closures**
 - **Operations**
 - **Structural Steel Repairs**
 - **Grid Floor Replacement**

Construction Sequence (Cont.)

- **Phase 2**
 - **The Bascule span will be placed in the closed position**
 - **Cannot be opened to marine traffic for a maximum of 30 days**
 - **Roadway will remain available to traffic with night time closures**
 - **Operations**
 - **Remaining Structural Steel Repairs**
 - **Replacement / Repair of Center Lock Assemblies**
 - **Cleaning & Painting of Structural Steel**

Bridge Closures to Vehicular Traffic

- **The Contractor will be allowed to close the bridge to vehicular traffic between 11:00 pm and 4:00 am (Mon. thru Thurs.)**
- **No restrictions on Two-Way Traffic will be allowed between 6:00 am and 9:00 pm (Mon. thru Sun.)**
- **Liquidated Damages for not meeting these requirements = \$ 1,000 per 15 minute period.**

Bridge Closures to Vehicular Traffic (Cont.)

- **Holidays**

- **Christmas – No Restrictions on Two-Way Traffic will be allowed between the hours of 6:00 am on the Friday before the week of Christmas Day until 7:00 pm on the following Monday after the week of Christmas Day**
- **New Year's Day – No Restrictions on Two-Way Traffic will be allowed between the hours of 6:00 am on December 31st to 9:00 am on January 2nd**

Bridge Closures to Marine Traffic

- **Lift Spans will remain closed to Marine Traffic for a maximum of 30 days**
 - Will Require notification and approval from the United States Coast Guard 30 days prior to the Disruption
- **During this Closure, the Bridge will remain open to Vehicular Traffic with previously mentioned limitations**

Emergency Response Vehicle Access

- **Access for Emergency Response Vehicles**
 - **Temporary Access Ramp**
 - **9' – 6" Clear Opening**
 - **20 Ton Max. Weight Rating**
- **Usage will be restricted to vital emergencies**
- **Coordination between Local Agencies, NCDOT, and Contractor will be imperative**