

# **HNTB – SOUTH LOUISIANA SUBMERGED ROADS PROGRAM**

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## Support Services Concept

In August, 2007, XRiver Technologies LLC began work as a sub-contractor to a large engineering firm to provide Project Management services in support of the South Louisiana Submerged Roads Program. This program was established by the Louisiana Department of Transportation and Development (LA DOTD) in response to damage caused by the inundation of Federal Aid Eligible roadways as a result of hurricanes Katrina and Rita.

As the lead resource for Project Management and Controls (PMC), XRiver personnel are responsible for the following:

- Develop and maintain Master Program Schedule
- Develop and maintain Project Roadway Segment Schedules
- Develop and maintain automated interface between Submerged Roads Program Cost/Schedule platforms and LA DOTD Program Management System (PPMS)
- Develop Program web-site
- Coordinate work efforts among and between the client (HNTB), LA DOTD, and other sub-consultants
- Track and manage open issues for each project and sub-contractor
- Facilitate weekly PMC Team Meeting
- Update program and project schedules status based on work performed and revised estimates for work planned
- Perform earned value analysis
- Disseminate status reports to stakeholders
- Present program status and issues to key program stakeholders

Detailed schedules are created by XRiver Technologies' resources for PMC Program management, and for Project Segment management. The detailed schedules are logic-constrained using the Critical Path Method (CPM) scheduling technique, and developed and maintained in Primavera Project Management module. The schedules are updated, and the status of the individual tasks associated with each schedule are tracked and reported. The schedules are then converted into PDF format, and are made available through the Program Dashboard to all concerned parties. The schedule data is also used to populate LA DOTD's PPMS via electronic interface.

Several types of schedules are developed, including the PMC Master Program schedule, the Project Segments Master schedule, Project Segments Detailed schedules, and Contract Design Consultants (CDC) Task Order schedules.

The PMC Master Program schedule is based on the scope defined in the contract. This schedule consists of the activities to be performed by the PMC staff to create and maintain the program infrastructure.

The Project Segments Master schedule is a rollup of all the Project Segments Detailed schedules in Primavera. It displays a single summary bar for each road segment. The summary

bar spans the time period beginning the first day any work begins on a given road segment until the final document package is submitted to the LA DOTD.

Project Segments Detailed schedules track the individual tasks required to successfully execute a road segment repair project. A WBS has been developed to break the Pre-Construction and Construction phases into sub-phases. A template has been created consisting of the WBS and the detailed tasks to support a consistent approach to creating and maintaining Segment schedules. These schedules are used to monitor the progress of each project segment. Durations and milestones are established for all activities from verification of the DIR through project closeout for each project. Revisions to scheduled dates for the key project milestones and deliverables are made in response to confirmed and approved changes in the pre-construction (design) and construction activities phases.

CDC Task Order schedules are based on the Project Segments Detailed schedules, and are provided to LA DOTD as attachments to Task Orders that are issued to the CDC.

The PMC Master Program schedule, the Program Segments Master schedule, and the Project Segment Detailed schedules are updated bi-weekly. Schedule status information is acquired internally and externally from other sources, such as correspondence, meetings, and conversations with Sub Consultants, CDC and Construction Contractors. PDFs are created for each of these schedules once they have been updated. Additional reports are created via electronic data extraction from the Primavera database into Excel spreadsheets. The format and distribution of these reports are tailored to the specific needs of the report end-user.

The activity data from the Project Segments Detailed schedules in Primavera, including all progress update information, is extracted electronically from Primavera to upload to the LA DOTD PPMS system on a monthly basis. This interface was developed, and is maintained, by XRiver Technologies LLC.

The different reporting mechanisms are designed to supply the various agencies and subsequent levels of management with sufficient and timely information regarding schedule status, performance, and any baseline variance analysis.

The success of the Submerged Roads Program is due to the effective Project Management support provided by XRiver Technologies LLC.

## **Additional Information Request**

For more information on this topic, please contact an XRiver Technologies Sales Representative at 703-480-4482.