

# American Recovery and Reinvestment Act Program Management



On February 17, 2009, President Obama signed the American Recovery and Reinvestment Act (ARRA), aiming to put millions of unemployed Americans back to work and halt what is believed to be the nation's worst recession since the Great Depression. This \$787 billion stimulus package is designed to boost economic activity through an unprecedented increase in federal spending on education, healthcare, and a vast array of public works projects to create jobs rebuilding our nation's deteriorating infrastructure and improving our air, water, and land.

Shaw Environmental & Infrastructure, Inc. (Shaw), a subsidiary of The Shaw Group Inc., is consistently ranked by Engineering News-Record as one of the top 10 environmental and design contractors. Shaw has experience managing all aspects of large infrastructure programs and understands the transparency, oversight, and accountability requirements that will accompany ARRA dollars. Given our industry leading performance and experience managing complex, government funded programs, Shaw is best prepared to support federal, state, and local entities in the management and successful execution of this historic program.

Federal, state, and local governments stand to receive over \$150 billion for projects that will modernize transportation systems, restore environmentally impacted properties, and increase energy efficiencies. In order to receive ARRA funding, government officials must agree to unprecedented levels of accountability to guarantee that taxpayer dollars are spent wisely. Shaw has performed as a program management contractor on numerous federal and state contracts and is experienced with government formulas and

systems that will be used to track the distribution of funds. Shaw can provide a turnkey portfolio of engineering, planning, and program management services designed to ensure all projects are appropriately justified and executed with the level of transparency and accountability required by the ARRA.

## Engineering and Planning

Each government entity receiving ARRA funding must provide a detailed description of each investment or project that is funded, why that project was selected, the total cost, and why the activity should be funded with taxpayer recovery dollars. Shaw offers engineering and planning solutions that establish program objectives and designs the proper processes and procedures are in place to meet ARRA guidelines. Using proven engineering and management systems, Shaw works closely with clients to complete a comprehensive analysis on each identified project to define cost, schedule, risk, and return on investment. Shaw provides officials with the accurate information required to support confident funding decisions and the personal certifications required to receive stimulus funds.

As a leading contractor for the federal government, Shaw understands the existing tracking mechanisms that will be used to monitor progress and use of ARRA funds. Shaw has provided engineering and planning services for complex government funded programs, including the management of over \$4.3 billion in construction projects for the Federal Transit Administration (FTA). For the FTA, Shaw developed a comprehensive project execution platform consisting of:

- Project management plans
- Quality assurance programs
- Fleet management plans
- Real estate acquisition and management plans

Each plan defined program objectives and requirements to facilitate continuous performance monitoring. In accordance with program guidelines, Shaw developed monthly reports assessing the health of each project for dissemination to all stakeholders while delivering a wide array of as-needed technical and management expertise not otherwise available to the project. As proven on the FTA program, Shaw's delivery of engineering and planning solutions establishes



Shaw provided construction oversight of the Northwest/Southeast Light Rail Transit project for the FTA.

a foundation for project execution, program compliance and a collaborative client relationship that ensures success.

## Program Management

Shaw understands the level of transparency and reporting required under the ARRA, including justification of each infrastructure investment, timely detailed reporting to oversight committees on project status, jobs created, funding obligations, and cost-benefit analyses. Leveraging engineering prowess and proven program management systems, Shaw offers a comprehensive solution to the management, scheduling, financial controls, and reporting requirements to comply with the ARRA.

Shaw's industry leading engineering and management services include constructability reviews, engineering and construction inspections, project safety, environmental compliance, protection of wetlands and other environmentally sensitive areas, quality assurance, contract bid evaluations, risk management, cost and schedule controls, contract management, and community relations. Shaw provided these and other engineering and program management services to the Massachusetts Water Resources Authority (MWRA) MetroWest Water Supply Tunnel project. Using proprietary technology and industry-specific tracking mechanisms, Shaw delivered timely reports to oversight agencies with respect to where projects were in the contract, procurement, and construction process, while providing cost-benefit analysis on planned versus actual expenditures.

To support effective tracking in accordance with funding requirements, Shaw implemented an information management system (IMS), linking the three management offices and critical construction activities together on a data network. The IMS was used to track all submittals, design documents, change orders, correspondence, RFI's, and other project-related documents. Our innovative network system allowed the MWRA to remotely access all project information including:

- Cost and schedule progress
- Submittal status
- Equipment and material delivery information
- Payment requisition reviews
- Project design documents
- Change order documentation
- Project correspondence
- Payment requisitions
- Cash flow analyses

The real time availability of project data improved the execution of the project and increased the MWRA's ability to generate accurate reports that tracked and communicated the status of key project statistics.

## The Big Picture

Shaw offers comprehensive planning, engineering, construction, and program management solutions to help clients manage mission-critical projects in accordance with strict funding guidelines and compressed schedules. Our services provide a flexible, collaborative approach that is tailored to meet the individual needs of our clients and ensures program success.

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