

TRANSPORTATION  
PLANNERS  
AND ENGINEERS

June 02, 2008

John Bardwell  
Contracting Officer  
Federal Transit Administration  
1200 New Jersey Avenue, SE Room E42-331  
Washington, DC 20590  
E-mail: John.Bardwell@fta.dot.gov

**Subject: FTA-08-PMOC – Project Management Oversight Services –  
Request for Capabilities Statements**

Dear Mr. Bardwell,

In response to FTA's Sources Sought Notice, dated December 6, 2007, Raul V. Bravo + Associates, Inc. (RVB+A) is pleased to provide a summary of our capabilities in transportation systems (attached).

We look forward to FTA's upcoming procurement, and the opportunity to be selected to start a relationship with the FTA on this program.

Sincerely,



Raul V. Bravo  
President

**RAUL V. BRAVO + ASSOCIATES, INC.****COMPANY PROFILE**

The changes that have occurred in our cities over the past several years have had a dramatic impact on the way people and goods move around. Given the condition of existing infrastructures, increasing environmental requirements, and diminishing sources of energy and capital, the challenge is to search for, develop, and apply transportation solutions that provide a valuable service, are realistic, feasible, and affordable.

Raul V. Bravo + Associates, Inc. (RVB+A) is dedicated to the planning, research, design and development of transportation systems. The firm was founded in 1979 and is well recognized in national and international circles.

RVB+A consists of a small group of 30+ full time transportation planners and engineers and a pool of approximately 50 associates, many of who are currently working on part time assignments. Our team serves industries and markets associated with passenger and freight transportation systems, including mass transit (heavy rail, light rail, automated people mover, bus, maglev) and mainline rail (commuter, inter-city, high speed, freight). Our expertise is in vehicles, systems, infrastructure and facilities.

RVB+A professionals cover a broad range of consulting services from project conception through operation and maintenance. Our mature team brings years of experience from transit agencies, railroads, suppliers, government, financial institutions, and trade groups, including backgrounds in planning, design, engineering, business, economics, and market development. We pride ourselves in developing common sense solutions. Our direct experience from all sides of the table allows us to find, develop and implement win-win solutions, realistic and affordable, for our clients and all parties involved.

The group, as a matter of policy, follows advanced Research and Development activities around the world in order to be well informed as to the most recent technologies, methods, and ideas in the transportation industry. This ensures implementation of proven, technical and economical solutions, in response to specific problems. Our staff is actively involved on industry committees and groups to explore new and better ways of resolving challenges in transportation today.

RVB+A has enjoyed consistent growth since 1979 and we continue to work on how to best serve our clients. In parallel to further expansion, we are focused on maintaining some of our key strengths which come with being lean such as agility, flexibility and responsiveness regarding our clients' needs.

Our head office is strategically located in the Washington, D.C. metro area and we have site offices around the world. Our proximity to D.C. allows us to be involved in and keep abreast of government and regulatory issues. We pride ourselves and are known for adding real value to any project we're involved in. Our status as a Certified DBE only enhances our value to clients.

While integrity, dependability and reliability are words used lightly and often understood as cliché in today's world, RVB+A has built a strong reputation in the industry based on these corporate values. We believe that these values have been a key factor in building and maintaining a strong network of relationships at all levels throughout the industry.

Lastly, we are proud of a long list of successful projects and strong references reflecting the broad range and professionalism of our company.

**RELEVANT EXPERIENCE**

Project Name	RVB+A Job Description	Project Owner
<p>"ACCEPTANCE COMPLETION CRITICAL ITEMS CHECKLIST DEVELOPMENT FOR LOS ANGELES – PROJECT #P2550"</p>  <p>DATES: 2007 – PRESENT</p>	<ul style="list-style-type: none"> <li>• Develop a comprehensive "Acceptance Completion Critical Items Checklist"</li> <li>• Preparation of a day-by-day schedule for completion of each of the above checklist activities.</li> <li>• List of parts needed to support acceptance of the first two cars.</li> <li>• Plan to address Safety Certification as relates to the first two cars</li> <li>• Provide special attention to Car History Books of the first two cars</li> </ul>	 <p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY, LACMTA</p> <p>Prime:</p> 
<p>"US-460 CORRIDOR MAINTENANCE AND OPERATIONS PERFORMANCE MEASURES"</p>  <p>DATES: 2007 – 2007</p>	<p>To research and develop maintenance and operations performance measures and to support in the development of an implementation plan for the measures for the Route 460 Corridor Improvement PPTA Project with recommendations for future "off the shelf" use and development.</p> <p>The measures covered:</p> <ul style="list-style-type: none"> <li>• Ordinary maintenance</li> <li>• Maintenance rehabilitation , major maintenance and construction</li> <li>• General operations</li> <li>• Enforcement of tolling</li> <li>• Routine incident and emergency management</li> <li>• Equipment</li> <li>• Handback requirements</li> </ul>	 <p>VIRGINIA DEPARTMENT OF TRANSPORTATION, VDOT</p> <p>Prime:</p> 
<p>"BUY AMERICA REVIEW"</p>  <p>DATES: 2007 – PRESENT</p>	<p>To review their operation for compatibility with Buy America regulations and provide a report of the findings</p>	 <p>Prime:</p> 
<p>"BUY AMERICA AUDIT– NEW CARS INSPECTIONS"</p>  <p>DATES: 2007 – PRESENT</p>	<p>On behalf of ARRC, RVB+A's responsibilities were to:</p> <ul style="list-style-type: none"> <li>• Conduct several Buy America audits on-site at U.S. railcar and locomotive manufacturer. Review all records, calculate material content, and issue report(s).</li> </ul> <p>Perform cost analysis for sole source railcar procurement in accordance with federal guidelines, and issue report of findings.</p>	 <p>ALASKA RAILROAD CORPORATION, ARRC</p> <p>Prime:</p> 

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<p><b>"ST LINK QUALITY ASSURANCE AUDITS"</b></p>  <p>DATES: 2005 – PRESENT</p>	<p>During 2005, 2006 and 2007, RVB+A conducted a series of audits in support of the Seattle Sound Transit Link LRV procurement of Kinki Sharyo vehicles. Audits measured compliance with contractual requirements, applicable standards and practices. The first audit was conducted in Osaka Japan at Kinki Sharyo's manufacturing facility. This audit coincided with completion of first LRV car shell. The audit included a FAI of the first car shell and an assessment of manufacturing, quality control, test practices and procedures. The audit resulted in numerous findings which were documented in an Audit Report. The Audit Report was used to track the eventual resolution of actionable findings and suggest changes to processes that were found to be non-compliant. The second audit was performed at Kinki Sharyo's final assembly site in Everett Washington. The purpose of this audit was to conduct an FAI of the first LRV completed in the US. The audit included examination of test records, builder documentation, in addition to physical inspection of the subject vehicle to confirm compliance with contractual requirements. An Audit Report was developed and issued upon completion of the activity and follow up inspection was conducted. The most recent audit focused on manufacturing and quality systems employed by Kinki Sharyo at the final assembly site. The scope of this audit included review of worker qualification and certification, review of work instructions and drawings, review of quality control and test processes and checks of Material Review Board dispositions. The tracking and resolution ST Link initiated open items was audited. An audit report was issued upon completion and followed up with an inspection.</p>	 <p>Prime:</p> 
<p><b>"Rehab of 23 ALP 44 Electric Locomotives"</b></p>  <p>DATES: 2007 – PRESENT</p>	<p>RVB+A responsible for concept and specification development, carbuilder procurement support, design and work review, quality assurance and inspection.</p>	 <p>Prime:</p> 
<p><b>"PERFORMANCE AUDITS"</b></p>  <p>DATES: 2005 – CURRENT</p>	<p>As Prime Contractor, RVB+A reports to ARRC's Board of Directors which is required by law to contract a recognized railroad expert to conduct annual performance audits. The purpose of these audits is to ensure that ARRC is managed and operated effectively and efficiently. The intent is to provide safe, economical, and efficient transportation services and also to ensure prudent operations according to sound business management practices. RVB+A conducted a railcar fleet management study in 2006 and a financial performance audit in 2007. In 2007, key recommendations were made for how to move forward along with dozens of revenue increasing and cost reduction opportunities for significantly improving operations and financial performance.</p>	 <p><b>ALASKA RAILROAD CORPORATION, ARRC</b></p> <p>Prime:</p> <p>■ RAUL V. BRAVO + ASSOCIATES, INC. ■</p>
<p><b>"OPERATING RATIO AUDIT"</b></p>  <p>DATES: 2005 – CURRENT</p>	<p>The objective was to analyze the Operating Ratio (OR) as reported but more importantly to identify opportunities for improving the financial performance of the railroad.</p>	 <p><b>ALASKA RAILROAD CORP.</b></p> <p>Prime:</p> <p>■ RAUL V. BRAVO + ASSOCIATES, INC. ■</p>

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<p><b>"BI-LEVEL COMMUTER CAR PROCUREMENT"</b></p>  <p>DATES: 2005 – CURRENT</p>	<p>Technical consultant to support proposal for and delivery of new passenger bi-level railcars, including Crash Energy Management (CEM) capabilities. RVB+A's responsibilities included:</p> <ul style="list-style-type: none"> <li>• Writing Technical Specifications for proposals</li> <li>• Conduct specification review and advise of engineering and compliance requirements;</li> <li>• Prepared a Buy America plan and documentation, and represented Rotem at Buy America audits conducted by SCRRA</li> <li>• Conduct review of supplier technical proposals;</li> <li>• Participate in technical evaluation of suppliers;</li> <li>• Lead entire engineering effort through design phase supporting carbuilder to manufacturing</li> <li>• Prepare engineering submittals and technical information in accordance with contract deliverables requirements list;</li> <li>• Develop carbody structural design including construction of finite element model and performance of finite element analysis;</li> <li>• Prepare car shell structural drawings;</li> <li>• Prepare engineering submittals and technical information in accordance with contract deliverables requirements list;</li> <li>• Construct life-size, soft core mock-up of new cab design;</li> <li>• Perform industrial design including making renderings, interior design cross-sectional drawings, lines of sight studies, seat arrangement studies, equipment location studies/optimization; ergonomics/human factors analyses, material selection, and other related tasks;</li> <li>• Conduct systems integration review of drawings and technical submittals, and hold/attend systems interface meetings with carbuilder and suppliers;</li> <li>• Attend design review meetings;</li> <li>• Review engineering submittals prepared by carbuilder prior to submittal to customer;</li> <li>• Document control;</li> <li>• Value engineering making recommendation for alternate/ superior cost savings and benefits;</li> <li>• Review / make recommendations on engineering changes; and attend monthly progress meetings;</li> <li>• Carbuilder and customer Engineering liaison</li> <li>• Track and verify closure of open issues.</li> </ul> <p>In addition, developed comprehensive Technical Specifications for proposals for SEPTA Silverliner V (FRA compliant EMU) and TTA Raleigh (FRA compliant DMU), both successfully bid.</p>	 <p>SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY, SCRRA</p> <p>Prime:</p> 
<p><b>"INSPECTION OF 5000 AND 6000 SERIES WMATA EMU CARS"</b></p>  <p>DATES: 2004 – CURRENT</p>	<p>Engineering support for the construction, testing and commissioning of 5000 series EMU's, currently being delivered and 6000 series EMU cars, currently in the design and engineering stages. Scope of responsibilities:</p> <ul style="list-style-type: none"> <li>• On site system engineers for systems such as heating, air conditioning and ventilation, electrical systems, trucks, and other car systems;</li> <li>• Test engineers;</li> <li>• Review of technical documents;</li> <li>• Provide technical reports making recommendation for remedy or improvement;</li> <li>• Warranty support including tracking of modifications and claims.</li> </ul>	 <p>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY, WMATA</p> <p>Prime:</p> 
<p><b>"MIAMI-DADE TRANSIT REHABILITATION"</b></p>  <p>DATES: 2004 – PRESENT</p>	<p>Conducting a comprehensive assessment of technical conditions of rubber tire people movers and heavy rail transit cars. Identify new technologies and perform economic analysis of these new technologies vs. current ones. Develop technical specifications for the rehabilitation of both People Movers and Heavy Rail cars.</p>	 <p>Prime:</p> 

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<p>"PROJECT MANAGEMENT OVERSIGHT (PMO) – TREN URBANO, PUERTO RICO"</p>  <p>DATES:</p>	<p>FTA PMO overseeing Siemen's Transportation construction of 74 passenger rail vehicles for Tren Urbano San Juan, Puerto Rico.</p> <ul style="list-style-type: none"> <li>• Attend monthly meetings;</li> <li>• Review/assess progress information;</li> <li>• Review/evaluate production schedules;</li> <li>• Review/evaluate engineering design issues;</li> <li>• Review/evaluate quality issues;</li> <li>• Make report to FTA. Reports included evaluation of current status with respect to required schedule and budget, explanation of issues affecting the project including recommendations for resolution, and informing of and evaluating measures for recovery and future action proposed.</li> <li>• RVB+A provided expertise and handout materials to foster education on Buy America regulations;</li> </ul> <p>RVB+A advisement facilitated problem solving of other program concerns.</p>	 <p>Prime:</p>  <p>WASHINGTON INFRASTRUCTURE GROUP</p>
<p>"JACKSONVILLE PEOPLE MOVER"</p>  <p>DATES:</p>	<p>FTA PMO overseeing Siemen's Transportation construction of people mover type vehicles for Jacksonville, FL.</p> <ul style="list-style-type: none"> <li>• Attend monthly meetings;</li> <li>• Review/assess progress information;</li> <li>• Review/evaluate production schedules;</li> <li>• Review/evaluate engineering design issues;</li> <li>• Review/evaluate quality issues;</li> <li>• Make report to FTA. Reports included evaluation of current status with respect to required schedule and budget, explanation of issues affecting the project including recommendations for resolution, and informing of and evaluating measures for recovery and future action proposed.</li> <li>• Conducted a comprehensive analysis of cost proposals and developed independent cost estimate for the customer;</li> <li>• RVB+A provided expertise and handout materials to foster education on Buy America regulations;</li> </ul> <p>RVB+A advisement facilitated problem solving of other program concerns.</p>	 <p>Prime:</p>  <p>PARSONS BRINCKERHOFF</p>
<p>"BI-LEVEL COMMUTER CAR AND LOCOMOTIVE PROCUREMENT"</p>  <p>DATES: 1998 – PRESENT</p>	<p>RVB+A was appointed as Sound Transit's technical consultant to manage procurement of 58 bi-level passenger railcars and 11 F59PHI locomotives. The scope of direct responsibilities included:</p> <ul style="list-style-type: none"> <li>• Development of passenger railcar and locomotive technical specifications;</li> <li>• Conduct Buy America audits (Pre-Award and Post Delivery);</li> <li>• Participate in evaluation and selection of builders;</li> <li>• Review engineering submittals and technical information for compliance and issue comments/open items,</li> <li>• Hold design review meetings and compatibility meetings between locomotive and car builders;</li> <li>• Document control</li> <li>• Review and make recommendation on engineering changes;</li> <li>• Oversee construction activities of locomotives and passenger cars providing first article inspections, inspections at builders' sites including first piece, in process, final acceptance, testing, and commissioning;</li> <li>• Conduct audits to contract, builder, and MIL Standard procedures;</li> <li>• Review nonconforming material disposition and procedures for repair and rework;</li> <li>• Review vehicle manufacturing history books;</li> <li>• Review and make recommendation on change orders;</li> <li>• Review and recommend approval of milestone payments;</li> <li>• Complete conformed specification;</li> <li>• Review operating, maintenance, overhaul and parts manuals;</li> <li>• Coordinate training of operating and maintenance personnel;</li> <li>• Develop Emergency Preparedness System Safety Plan for client;</li> <li>• Monitor warranty/reliability including verification of implementation of engineering modifications.</li> <li>• Provide supporting documents to Sound Transit for FTA PMO information.</li> </ul> <p>RVB+A continues to support Sound Transit in a broad range of areas. Focus is currently on Maintenance of Equipment and Operations.</p>	 <p>Prime:</p>  <p>RAUL V. BRAVO + ASSOCIATES, INC.</p>