



Board Report

File #: 2018-0061, File Type: Contract

Agenda Number: 30.

SYSTEM SAFETY, SECURITY AND OPERATIONS COMMITTEE APRIL 12, 2018

**SUBJECT: ENGINEERING SUPPORT FOR RAIL MAINTENANCE
AND ENGINEERING**

ACTION: AWARD CONTRACT

RECOMMENDATION

AUTHORIZE the Chief Executive Officer to award Contract No. PS46172000 to Gannett Fleming Transit & Rail Systems for on-call engineering support services in support of Rail Maintenance and Engineering, for a total not-to exceed amount of \$31,000,000, inclusive of \$16,000,000 for the initial two-year base, and \$5,000,000 for each of the three, one-year options (effective May 2018 through April 2023); subject to resolution of protest(s), if any.

ISSUE

Metro Rail Maintenance and Engineering has limited scope and depth of engineering and technical resources to develop and execute capital projects and meet the day-to-day engineering needs necessary to maintain and improve railway infrastructure assets and systems. Establishment of an engineering support services contract will enable Metro to supplement internal resources on an on-call basis in situations where either Metro does not have sufficient capacity or the expertise necessary to perform a task.

DISCUSSION

This task order based contract establishes a range of services that includes train control, traction power, communications, track, mechanical electrical plumbing, civil design, and fare collection. Also included are support services for project management, construction management, and computer-aided design and drafting (CADD). Work assignments will be provided on a task order basis to augment support for existing capital projects, large scale construction projects, and ongoing day-to-day needs for Rail Maintenance and Engineering. Prior to each work task order authorization, Rail Maintenance and Engineering will develop the scope of work, schedule and independent cost estimate. Metro's Vendor/Contract Management (V/CM) will then request proposal details and pricing information and negotiate an acceptable amount in accordance with agreed upon Metro terms and conditions. Rail Maintenance and Engineering staff reviewed the rail maintenance capital work program in the amount of \$47 million per fiscal year for the next five years and calculated that maintaining a support cost of 10-15% was reasonable in order to deliver capital projects on time and

within budget. Refer to Attachment A for a list of proposed project uses.

A Disadvantaged Business Enterprise (DBE) participation goal of 25% has been established as part of this contract. Gannett Fleming Transit & Rail Systems made a 25% DBE commitment. A list of DBE firms who will have subcontracting opportunities for on-call engineering support services is shown in the DEOD Summary - Attachment C.

DETERMINATION OF SAFETY IMPACT

The engineering support services for rail maintenance are not directly related to a specific safety issue. However, the services provided via this Contract will contribute to maintaining the rail system in a State of Good Repair (SGR) as recommended by Metro's Transit Asset Management (TAM) Plan, which is essential to providing a safe and reliable service for riders who use the Metro rail system daily.

FINANCIAL IMPACT

This contract award action is for a not-to-exceed threshold amount of \$31,000,000. As work task orders become necessary, funding will be provided from the appropriate capital project requiring support. For FY 18, funding of \$100,000 is included in the operating budget and \$250,000 is included in the capital project budget under various cost centers and projects, including cost centers: 3910 - Maintenance and Engineering, 3922 - Rail Communications Systems, 3926 - Rail Signal Systems, 3927 - Rail MOW Track Maintenance, 3928 - Rail Traction Power Systems, 3960 - Rail Transit Engineering, and 3929 - Rail MOW Engineering, Account 50316 -Professional and Technical Services.

Since this is a multi-year contract, the Project Manager will ensure that the balance of funds is budgeted in future Fiscal Years.

Impact to Budget

The source of funds for operating related task orders is Enterprise operating funds. For capital related task orders, the source of funds will be dependent on the specific capital project funding. Use of all related funding will maximize allowable funding allocations given approved funding provisions.

ALTERNATIVES CONSIDERED

1) Solicit competitive bids for each individual task order as it becomes required. This is not recommended as it would require extensive additional staff time to process each request and result in project delays due to the lead time required to complete each procurement cycle. Additionally, procuring these services on a per-assignment basis would impose additional burden on the Vendor/Contract Management (V/CM) department.

2) Utilize existing Engineering staff to provide the required technical support. This is not feasible as the current budgeted MOW Engineering capacity is fully utilized to maintain Metro's existing systems and oversee the acceptance of the new rail lines. Also, there would not be sufficient existing staff to

re-assign to provide technical support to the various capital projects concurrently.

NEXT STEPS

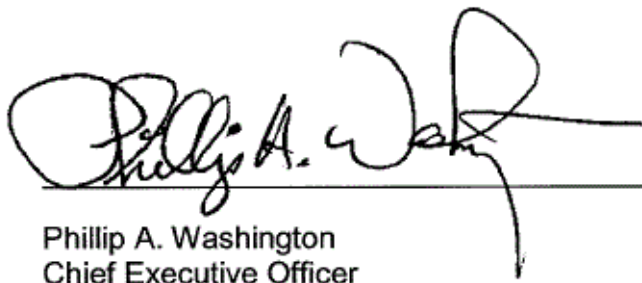
Upon Board approval, staff will execute Contract No. PS46172000 with Gannett Fleming Transit & Rail Systems to provide engineering support for Rail Maintenance and Engineering on an as needed task-orders basis.

ATTACHMENTS

- Attachment A - List of Proposed Project Uses
- Attachment B - Procurement Summary
- Attachment C - DEOD Summary
- Attachment D - Estimated Engineering Support Services

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Phillip A. Washington
Chief Executive Officer

LIST OF PROPOSED PROJECT USES

Description
Support for Correct Door Enable on LRT Project
Project to implement an Overhead Catenary System (OCS) Monitoring System
Support for MRL Gas Analyzer Upgrade Project
Project to upgrade Transit Passenger Information System (TPIS)
Support for various TPSS/COM/TP/UPS Battery Replacement Projects
Computer Aided Design (CAD) Support to Capture System Configuration
Project for SCADA to monitor Manual and Motor Operated OCS Section Switches
Project for Communication Based Train Control (CBTC) Upgrade to EXPO Line
Support for Corrosion Protection Project
Support for New Blue Project
Support for MGL Train Control and TWC Replacement Project
Project to add Generator Receptacles to Red Line Stations
Support for Various Facility Maintenance Projects
Support for MRL Train to Wayside Communication (TWC) Rehabilitation Project
Support for Radio Replacement Project
Support for Rehabilitation of MBL Emergency Trip System (ETS) Project
Support for various Rail Maintenance and Engineering Initiatives
Support for Rail Maintenance and Engineering Acceptance of Various Mega Projects
Support for Rail Maintenance and Engineering Capital Program
Project for replacement of Emergency Management Panels at Select Locations
Support for various Safe-7 projects
Support for Analysis of Traction Power system along Red / Purple Line trunked corridor
Support for Conversion of Various MGL Stations to 3 Car Platforms
Assessments and Inspections of Critical Fire/Life/Safety Elements and Infrastructure
Assessments and Inspections of Critical Wayside Control and Power Systems

PROCUREMENT SUMMARY

ENGINEERING SUPPORT FOR RAIL MAINTENANCE AND
ENGINEERING/PS46172000

1.	Contract Number: PS46172000	
2.	Recommended Vendor: Gannett Fleming Transit & Rail Systems	
3.	Type of Procurement (check one): <input type="checkbox"/> IFB <input type="checkbox"/> RFP <input checked="" type="checkbox"/> RFQ-A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order	
4.	Procurement Dates:	
	A. Issued: October 12, 2017	
	B. Advertised/Publicized: October 16, 2017	
	C. Pre-Proposal Conference: October 26, 2017	
	D. Proposals Due: November 28, 2017	
	E. Pre-Qualification Completed: February 8, 2018	
	F. Conflict of Interest Form Submitted to Ethics: November 29, 2017	
	G. Protest Period End Date: April 23, 2018	
5.	Solicitations Picked up/Downloaded: 78	Bids/Proposals Received: 2
6.	Contract Administrator: Victor Zepeda	Telephone Number: (213) 922-1458
7.	Project Manager: Marshall Epler	Telephone Number: (213) 617-6232

A. Procurement Background

This Board Action is to approve Contract No. PS46172000 for on-call engineering support services in support of rail maintenance and engineering. Board approval of contract awards are subject to resolution of any properly submitted protest.

The Request for Qualifications (RFQ) No. PS46172 was issued in accordance with Metro's Acquisition Policy and the contract type is task order based. The RFQ was issued with a DBE goal of 25%.

The period of performance is two base years with three, one-year options (from May 2018 to April 2023).

A pre-proposal conference was held on October 26, 2017 with 22 attendees representing 15 companies.

Two amendments were issued during the solicitation phase of this RFP:

- Amendment No. 1, issued on October 27, 2017 clarified the DBE Contracting Outreach Mentoring Plan and corrected the Statement of Work.
- Amendment No. 2, issued on November 1, 2017, extended the due date from November 14 to November 28, 2017.

On November 28, 2017, Metro received two proposals as follows, in alphabetical order:

1. Gannett Fleming Transit & Rail Systems, Inc. (GFT&RS)
2. PacRim Engineering, Inc. (PacRim)

B. Evaluation of Proposals

A Proposal Evaluation Team (PET) consisting of staff from Project Engineering and Wayside Systems departments was convened and conducted a comprehensive technical evaluation of the proposals received.

The proposals were evaluated based on the following evaluation criteria and weights:

- | | |
|--|------------|
| • Minimum Qualifications (Project Management) | Pass/Fail |
| • Degree of the Prime's Skills and Experience | 50 Percent |
| • Proposer's Team | 20 Percent |
| • Effectiveness of Execution Plan | 25 Percent |
| • DBE Contracting Outreach and Mentor Protégé Approach | 5 Percent |

The evaluation criteria are appropriate and consistent with criteria developed for other similar engineering support procurements.

Both firms passed the minimum qualifications and were determined to be responsive and placed in the competitive range.

During the week of January 18, 2018, the PET met and interviewed both firms. The firms' project managers and key team members had an opportunity to present each team's qualifications and respond to the PET's questions. In general, each team's presentation addressed the requirements of the RFP, experience with all aspects of the required tasks, and stressed each firm's commitment to the success of the project. Also highlighted were staffing plans, work plans, and perceived project challenges.

Qualifications Summary of Firms within the Competitive Range:

Gannett Fleming Transit & Rail Systems

Since 1993, GFT&RS, has provided engineering services with a specialty in rail-related operation control systems, signal, and communications. GFT&RS is a division of Gannett Fleming that was established in 1915.

The firm has a local Los Angeles office and has teamed up with 16 different firms. GFT&RS has assembled a team of 16 subcontractors to ensure its qualifications are complimented with firms that specialize in various engineering services and offer ample opportunity to small businesses to participate in delivering services for this Contract.

PacRim Engineering, Inc.

PacRim Engineering, Inc. (PacRim) was established in 2007 and is a local SBE firm located in Santa Ana, CA. PacRim provides engineering services with specialty services in rail and civil engineering.

PacRim has assembled a team of 10 subcontractors to ensure its qualifications are complimented with firms that specialize in various engineering services and offer ample opportunity to small businesses to participate in delivering services for this contract.

The following is a summary of the PET’s evaluation scores:

1	Firm	Average Score	Factor Weight	Weighted Average Score	Rank
2	GFT&RS				
3	Minimum Qualifications (Project Management)	Pass	Pass/Fail	Pass	
4	Degree of the Prime’s Skills and Experience	86.34	50.00%	43.17	
5	Proposer’s Team	74.15	20.00%	14.83	
6	Effectiveness of Execution Plan	78.40	25.00%	19.60	
7	DBE Contracting Outreach and Mentor Protégé Approach	80.00	5.00%	4.00	
8	Total		100.00%	81.60	1
9	PacRim				
10	Minimum Qualifications (Project Management)	Pass	Pass/Fail	Pass	
11	Degree of the Prime’s Skills and Experience	79.66	50.00%	39.83	
12	Proposer’s Team	72.50	20.00%	14.50	
13	Effectiveness of Execution Plan	72.68	25.00%	18.17	
14	DBE Contracting Outreach and Mentor Protégé Approach	40.00	5.00%	2.00	
15	Total		100.00%	74.50	2

C. Cost/Price Analysis

The recommended hourly rates are determined to be fair and reasonable based upon independent cost estimate, cost analysis, technical evaluation, and fact finding. All future task orders and modifications will be determined to be fair and reasonable in accordance with Metro's Acquisition Policy at the time of issuance and award.

D. Background on Recommended Contractor

The recommended firm, GFT&RS, is located in Los Angeles with 60 other offices nationwide. GFT&RS' parent company, Gannett Fleming, has been in business for over 100 years providing transportation engineering services. GFT&RS has been on Metro's General Engineering Consultant Bench Contract and has a similar on-call contract with Washington Metropolitan Area Transit Authority. Past similar contracts include San Diego Trolley (Metropolitan Transit System) – San Ysidro Yard, and Amtrak in the Northeast (Boston to D.C.) since 1992.

GFT&RS' project management team is led by Matthew Dixon, PE. Mr. Dixon is experienced in managing transit and rail system design projects on several rail projects within the State of California. The team led by Mr. Dixon has over 60 years of rail engineering and transit operation experience. Further, GFT&RS has in its employment over 450 registered professional engineers, a significant depth of resources available Metro's Engineering Support for Rail Maintenance Services.

DEOD SUMMARY

ENGINEERING SUPPORT FOR RAIL MAINTENANCE AND
ENGINEERING/PS46172000**A. Small Business Participation**

The Diversity and Economic Opportunity Department (DEOD) established a 25% Disadvantaged Business Enterprise (DBE) goal for this project. Gannett Fleming Transit & Rail Systems formed a team that included DBE firms without schedules or specific dollar commitments prior to the establishment of this on-call Contract and has committed to meeting the 25% DBE goal. Overall DBE participation for the on-call Contract will be determined based on the aggregate of all Task Orders awarded.

Small Business Goal		25% DBE	Small Business Commitment	25% DBE	
	DBE Subcontractors	Scope of Work	NAICS Codes	Ethnicity	% Committed
1.	Armand Consulting, Inc.	Communication Systems Design	541330 - Engineering Services 541512- Computer Systems Design Services	Caucasian Female	TBD
2.	Birdi & Associates, Inc.	CADD Services Networking	541512 - Computer Systems Design Services 541519 - Other Computer Related Services	Subcontinent Asian American	TBD
3.	C2PM	Engineering Services	541330 - Engineering Services	Asian Pacific American	TBD
4.	GC Tech, Inc.	CADD Services Document Control	541430 - Graphic Design Services 541340 - Drafting Services 541618 - Other Management Consulting Services	African American	TBD
5.	JM Diaz, Inc.	Civil, Traffic, Rail, and Transit Engineering	541330 - Engineering Services	African American	TBD
6.	NBA Engineering, Inc.	Mechanical, Electrical, Plumbing, and Fire Protection Engineering	541330 - Engineering Services	Caucasian Female	TBD
7.	Pacific Railway Enterprises, Inc.	Signal and Communications System Design	541330 - Engineering Services 541340 - Drafting Services 541512 - Computer Systems Design	Caucasian Female	TBD

			Services		
8.	Rani Engineering, Inc.	Signal, Train Control	541330 - Engineering Services 541340 - Drafting Services	Asian Pacific American	TBD
9.	Wagner Engineering & Survey, Inc.	Land Surveying, Mapping, Right of Way Engineering	541370 - Surveying and Mapping 541330 - Engineering Services 541360 - Geophysical Surveying and Mapping	Caucasian Female	TBD
Total DBE Commitment					25%

B. Contracting Outreach and Mentoring Plan

To be responsive, proposers were required to submit a Contracting Outreach and Mentoring Plan (COMP) which included its strategy to mentor two DBE firms for protégé development. The selected DBE protégés are Pacific Railway Enterprise and GC Tech, Inc.

C. Living Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy (LW/SCWRP) is not applicable to this Contract.

D. Prevailing Wage Applicability

Prevailing Wage requirements are applicable to this project. DEOD will monitor contractors' compliance with the State of California Department of Industrial Relations (DIR), California Labor Code, and, if federally funded, the US Department of Labor (DOL) Davis Bacon and Related Acts (DBRA).

E. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract.

Potential Services Provided by the Engineering Support Bench

Type Task Order	Description	Cost	Years plus Options	Total	Comments
Staff Augmentation	CAD Services - Traction Power	\$ 213,750.00	5	\$ 1,068,750.00	Various CP
Staff Augmentation	CAD Services - Communications	\$ 213,750.00	5	\$ 1,068,750.00	Various CP
Staff Augmentation	CAD Services - Train Control	\$ 213,750.00	5	\$ 1,068,750.00	Various CP
Staff Augmentation	Project Manager No.1	\$ 320,625.00	5	\$ 1,603,125.00	Various CP
Staff Augmentation	Project Manager No.2	\$ 320,625.00	5	\$ 1,603,125.00	Various CP
Staff Augmentation	Track Engineer	\$ 427,500.00	5	\$ 2,137,500.00	Various CP
Staff Augmentation	COM Engineer	\$ 427,500.00	5	\$ 2,137,500.00	CP-205070
Staff Augmentation	Train Control Engineer	\$ 427,500.00	5	\$ 2,137,500.00	Various CP
Subtotal		\$ 2,565,000.00		\$ 12,825,000.00	

Type Task Order	Description	Cost	Years plus Options	Total	Comments
Design Task Order	Update of CCTV System	\$ 475,000.00	1	\$ 475,000.00	
Design Task Order	Update of TPIS	\$ 475,000.00	1	\$ 475,000.00	
Design Task Order	Update of MBL ETS	\$ 475,000.00	1	\$ 475,000.00	
Design Task Order	Red Line Generator Recepticle	\$ 112,500.00	1	\$ 112,500.00	
Design Task Order	EOS/MOS Switches	\$ 112,500.00	1	\$ 112,500.00	
Design Task Order	ETEL/PTEL Upgrade	\$ 112,500.00	1	\$ 112,500.00	CP-205100
Design Task Order	MRL TWC Rehab	\$ 143,750.00	1	\$ 143,750.00	CP-205100
Design Task Order	MGL Signal Rehab - Phase II	\$ 125,000.00	1	\$ 125,000.00	CP-205092
Design Task Order	System Wide Corrosion	\$ 500,000.00	1	\$ 500,000.00	
Design Task Order	Fare Gate Design	\$ 187,500.00	1	\$ 187,500.00	
Design Task Order	OCS Monitoring System	\$ 465,000.00	1	\$ 465,000.00	
Design Task Order	Correct Door Enable on LRT Project	\$ 465,000.00	1	\$ 465,000.00	Typical Yearly Work
Subtotal				\$ 3,648,750.00	
			5	\$ 18,243,750.00	
Grand Total				\$ 31,068,750.00	Max Value of Contract over Five Years