



**Board Report**

**File #:** 2021-0288, **File Type:** Contract

**Agenda Number:** 37.

**CONSTRUCTION COMMITTEE  
JUNE 17, 2021**

**SUBJECT: SUPPLEMENTAL ENGINEERING SERVICES (SES) CONSULTANT SERVICE  
CONTRACT**

**ACTION: CONTRACT MODIFICATION TO EXERCISE OPTION**

**RECOMMENDATION**

AUTHORIZE the Chief Executive Officer to:

- A. EXERCISE a one-year option for Contract No. AE36687 with Mott MacDonald Group for Supplemental Engineering Services for the Engineering Design of Rail and Highway Transportation Projects, extending the period of performance from June 22, 2021 through June 22, 2022;
- B. INCREASE the total authorized contract value for Contract No. AE36687 with Mott MacDonald Group for Supplemental Engineering Services for Engineering Design for Rail and Highway Transportation Projects in an amount not-to-exceed \$5,000,000 increasing the total contract value from \$17,500,000 to \$22,500,000. Work will only be authorized by specific task orders, funded by specific project budgets; and
- C. NEGOTIATE and EXECUTE Task Orders and modifications within the Board approved funding amount.

**ISSUE**

On June 15, 2017, the Board approved a three-year cost-plus fixed fee contract for Supplemental Engineering Services with Mott MacDonald Group for Engineering and Design of Rail and Highway Transportation Projects plus two one-year options at \$5,000,000. On May 28, 2020, the Board approved an option of one year and \$2,500,000 increase in the authorized contract value. The current board action is for approval to exercise a one-year option and an additional \$5,000,000 in authorized contract value for the Contract to a total not-to-exceed amount of \$22,500,000. The approval of the exercise of this option will provide for a contract extension of time and increase the authorized funding limit to complete the Engineering and Design services that are currently underway.

**BACKGROUND**

The Mott MacDonald Group has been providing engineering and design support services on several projects through various task orders. One of these task orders includes preliminary engineering services for the Metro G Line (formerly Orange Line) BRT Improvements consisting of Grade Separation at Sepulveda and Van Nuys Stations and the G Line Gating for 41 at-grade crossings. The preliminary engineering design of the Metro G Line BRT Improvements is not yet complete and will require additional time and budget. The current requested board action will provide the additional time and increase in the authorized contract value to complete this project.

## **DISCUSSION**

Metro Engineering has developed this SES Contract to supplement Metro's engineering efforts. The SES consultant team has the capability of supporting its engineering group's technical disciplines.

Examples of Task Orders issued under this contract to date are:

- Preliminary engineering services for Metro G Line BRT Improvements
- Metro A Line Special Trackwork Design
- Metro A Line Fare Gates Addition Project
- Metro L Line Track 2 Near Harbor Freeway Station Survey
- Expo/Crenshaw West Side Portal Conceptual Design
- Metro E Line MSE Walls 726 and 727 Survey Monitoring Program
- Metro G Line Colfax Recycled Water Project
- Conceptual Design/Planning in Support of the Metrolink SB/L Line Task Force
- Metro G Line ROW and Easement Survey for Immediate Remedial Measures

The technical proficiencies required for this SES contract (PS8510-3002) are very comprehensive and include all engineering and specialties disciplines which Metro may require in support of its projects. These include the following:

General Services include:

1. Preliminary and Final Design of Transportation including Rail and Highway Projects.
2. Design Review Support & Coordination for CIP projects & other special projects.
3. Production of Project Status, Technical and Engineering Reports.
4. Design of Structures, Stations and Guideways.
5. Facilities/Systems Interface Coordination.
6. Surveying Services.
7. Cost Estimating.
8. Intra/Inter Disciplinary Coordination.

9. Scheduling and Cost Management for Task Orders.
10. Post Design Services including Bid and Design Support during Construction.
11. Administrative Tasks associated with General Engineering Support Services.

Specific Rail Facilities and Third-Party Utility Design Services include:

12. Engineering Services for Review and Approval of Metro Projects.
13. Development of Technical Specifications, Drawings and Reference Documents.
14. Engineering Services for support of Metro Rail Operations and Maintenance.
15. Land Surveying and Legal Description.
16. Potholing.
17. Geotechnical Services, Borings and Reports.
18. Civil & Utility Engineering
19. Civil & Utility Engineering. Drainage Design and Hydraulic Calculations.
20. Structural Engineering.
21. Bridges and Aerial Structure Design.
22. Tunnels, Trenches and Underground Station Design.
23. Track Work Engineering, Plan and Profile.
24. CPUC Grade Crossing Application including attendance to field diagnostic meetings.
25. Yard and Shop Rail Maintenance Facility Design.
26. Architectural Design.
27. Station Site Development.
28. Urban Design Integration.
29. Landscape Architecture.
30. Traffic Control Plans including Striping Drawings and Signal Drawings.
31. CADD and MicroStation Drawings.
32. BIM Services and Training.
33. Project Presentation including Three-Dimensional Rendering.
34. Corrosion Control Measures and Cathodic Protection.
35. Value Engineering and Cost Reduction
36. Noise and Vibration Analysis including Site Visits, Measurement and Mitigation.
37. Any other engineering or technical discipline not listed above that is ancillary to the Statement of Work and consistent with the general requirements of an approved Task Order.
38. HVAC design including HVAC and emergency ventilation.
39. Electrical Design.
40. Plumbing Design.
41. Fire Protection Design

**DETERMINATION OF SAFETY IMPACT**

This Board Action will not have an impact on established safety standards for Metro's Construction Projects.

**FINANCIAL IMPACT**

The funding for these services is included in the approved FY21 and FY 22 budget in various Capital Projects. Task Orders will be issued and funded from the associated future fiscal year and Life-of-Project (LOP) budgets. The funding source differs depending on the individual project. These activities will remain within the approved LOP for each project. The specialized design for the Metro G Line Grade Separation requires additional Task Order Modifications which would exceed the current Not to Exceed Amount.

Since this is a multi-year contract, the cost center manager and Interim Chief Program Management Officer, will be accountable for the budgeting the cost of the annual work program for each fiscal year for the term of the contract, including any options exercised.

### IMPACT TO BUDGET

The funding for the task orders are provided by the specific project requiring the services. The source for these funds is in line with the respective projects' funding plans and fund sources may consist of federal and/or state grants as well as local funds. Many of the state of good repair projects are funded with local funding sources that are eligible for rail and bus operations.

### IMPLEMENTATION OF STRATEGIC PLAN GOALS

This will promote Metro's strategic goal of expanding the transportation network and increasing mobility for all users.

### ALTERNATIVES CONSIDERED

The Board may elect to not exercise these positions with Mott MacDonald for the Supplemental Engineering Services. Staff does not recommend this alternative as the design they are assigned are in various degrees of design development, construction or and the cost and schedule for each of these projects would be significantly impacted. Specifically, Mott Macdonald is performing preliminary engineering services for the Metro G Line BRT which requires extensive amount of coordination between Sepulveda Transit Corridor and East San Fernando Valley Transit Corridor (ESVFTC) projects as both projects have a station at the Metro G Line. The interface between ESVFTC terminus station with the proposed aerial station for Metro G Line improvements at Van Nuys is particularly important and requires extensive coordination between the two design teams to create a seamless circulation and transfer for the patrons using the station. Mott MacDonald has been performing this task, but the preliminary engineering design of the Metro G Line BRT Improvements is not yet complete and will require additional time and budget. Not exercising these options will adversely affect these three important projects. In addition, the cost of procuring another consultant in a timely manner would create potential delay to existing contracts where they are currently supporting Metro Engineering staff to design these projects.

Another alternative would be to hire Metro staff to perform the required services. This alternative is also not recommended as it would be difficult to obtain qualified staff in a timely manner, and the services are only required on a periodic basis for peak workloads or specific tasks over the life of the project.

### **NEXT STEPS**

Upon Board approval, staff will issue a Contract Modification to exercise the second one-year option, and issue Contract Task Orders, as needed.

### **ATTACHMENTS**

Attachment A - Procurement Summary  
Attachment B - Contract Task Order/Modification Log  
Attachment C - DEOD Summary

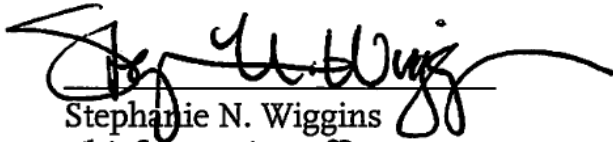
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Stephanie N. Wiggins  
Chief Executive Officer

## PROCUREMENT SUMMARY

## SUPPLEMENTAL ENGINEERING SERVICES (SES)

1.	<b>Contract Number:</b> AE36687		
2.	<b>Contractor:</b> Mott MacDonald Group		
3.	<b>Mod. Work Description:</b> Additional Funding for additional Contract Task Orders for G Line BRT Improvements		
	<b>Contract Work Description:</b> Supplemental Engineering Services (SES)		
5.	<b>The following data is current as of:</b> May 10, 2021		
6.	<b>Contract Completion Status</b>		<b>Financial Status</b>
	<b>Contract Awarded:</b>	June 22, 2017	<b>Original/Current authorized funding limit:</b> \$ 17,500,000.00
	<b>Contract Executed Date:</b>	July 17, 2017	<b>Total of Contract Work Orders and Modifications Approved:</b> \$ 14,912,355.70
	<b>Original Completion Date:</b>	June 22, 2020	<b>Pending and Proposed Contract Work Orders and Modifications (including this action):</b> \$ 7,587,644.30
	<b>Current Est. Completion Date:</b>	June 22, 2022	<b>Total authorized funding limit (with this action):</b> \$ 22,500,000.00
7.	<b>Contract Administrator:</b> Robert Romanowski		<b>Telephone Number:</b> (213) 922-2633
8.	<b>Project Manager:</b> Androush Danielians		<b>Telephone Number:</b> (213) 922-7598

**A. Procurement Background**

On June 22, 2017, the Board approved award of Contract No. AE36687 with Mott MacDonald Group for three years with funding approval through FY2020 in the amount of \$15,000,000, for the Scope of Work included in the Supplemental Engineering Services (SES) Contract. This is a cost reimbursable plus fixed fee contract and services are authorized by individual Task Orders.

On May 28, 2020, the Board approved the exercise of a one-year option including an increase of \$2,500,000 in authorized funding for a total authorized funding limit not-to-exceed \$17,500,000.00.

Attachment B shows that twenty-three Contract Task Orders and their Modifications have been issued to date, totaling \$14,912,355.70.

This Board Action is to approve the exercise of a final one-year option and to increase the total authorized funding for Contract No. AE36687 in support of additional Supplemental Engineering Services (SES) needs.

**B. Cost/Price Analysis**

All direct labor rates, as modified by an annual economic price adjustment, indirect costs rates, as modified by an audit of the actual rate for each year, and the negotiated fixed fee factor for this cost reimbursable plus fixed fee contract remain unchanged from the original contract.

A fair and reasonable cost for all future Contract Task Orders will be determined based upon fact finding, scope definition, technical evaluation, cost analysis, and negotiations before issuing work to the Consultant. Contract Task Orders will be processed in accordance with Procurement Policies and Procedures, within the additional funding requested.



**ATTACHMENT B**

**CONTRACT TASK ORDER / MODIFICATION LOG  
CONTRACT NO. AE36687**

<b>Mod/Task Order (TO) No.</b>	<b>Description</b>	<b>Status</b>	<b>Contract Funding Limit (A)</b>	<b>Mod / TO Value (B)</b>	<b>Board Approved CMA (C)</b>
	Original Award	Approved	\$15,000,000.00		N/A
AE36687-MOD-00001	Administrative Mod to delete unneeded SP's	Approved		\$ 0.00	
AE36687-MOD-00002.1	Add Article VIII Pricing of Task Orders to Contract	Approved		\$ 0.00	
AE36687-MOD-00003	Economic Price Adjustment for Contract Year 2 for Direct Labor Rate Ranges	Approved		\$ 0.00	
AE36687-MOD-00004	Modify Contract Funding Limit NTE and Exercise Option to Extend Period of Performance for One Year as approved by the Board 05/28/2020	Approved	\$ 2,500,000.00		
<b>Approved Contract Funding Limit</b>			<b>\$17,500,000.00</b>		
AE36687-TO-001	MOL Improvements Project - Preliminary Engineering Services, as modified by MODS 0001 through 0004	Approved		\$11,203,000.00	
AE36687-TO-001A	MOL BRT Improvements - Engineering Support for Outreach Program	Approved		\$ 112,200.00	
AE36687-TO-002	SES – Geotechnical Engineering Support, as modified by MODS 0001 through 0003.1	Approved		\$ 76,083.20	
AE36687-TO-003	Sepulveda Blvd Survey at Ovada PL	Approved		\$ 18,916.33	
AE36687-TO-004	Cancelled				
AE36687-TO-005	MBL Special Trackwork Design, as modified by MODS 00001 through 00005	Approved		\$ 891,296.43	
AE36687-TO-006	Virginia TPSS Survey Services	Approved		\$ 10,297.88	

AE36687-TO-007	Blue Line Fare Gates Addition Project Site Services	Approved		\$ 14,149.60	
AE36687-TO-008	Cancelled				
AE36687-TO-009	Lankershim Depot Park Topographic Survey Services	Approved		\$ 3,375.20	
AE36687-TO-010	Lankershim Depot Park Landscape Architect - Design Review Services, as modified by MODS 00001 through 00002	Approved		\$ 21,859.79	
AE36687-TO-011	Metro Blue Line Del Amo Station Survey	Approved		\$ 10,533.00	
AE36687-TO-012	Legal Description Review for Vista Canyon/City of Santa Clarita Development Project, as modified by MODS 00001 through 00002	Approved		\$ 14,659.25	
AE36687-TO-013	Metro Green Line Track 2 Near Harbor Freeway Station Survey and its MOD 00001	Approved		\$ 36,250.00	
AE36687-TO-014	Expo/Crenshaw West Side Portal Conceptual Design as modified by MODS 00001 through 00003	Approved		\$ 133,983.00	
AE36687-TO-015	Metro Expo II Line MSE Walls 726 and 727 Survey Monitoring Program	Approved		\$ 55,759.00	
AE36687-TO-016	Metro Expo II Line MSE Walls 726 and 727 - Top of Rails Survey	Approved		\$ 32,914.00	
AE36687-TO-017	Metro Orange Line Colfax Recycled Water Project, and its MODS 00001 and 00002	Approved		\$ 202,589.00	
AE36687-TO-018	Washington Satellite Yard Topographic Survey for the New Blue Project and MODs 00001 through 00003	Approved		\$ 25,422.02	
AE36687-TO-019	Conceptual Design/Planning in Support of the Metrolink SB/Gold Line Task Force and MOD 00001	Approved		\$ 443,999.00	
AE36687-TO-020	Landscape Arch. Support for Metro Expo Line Bike Path Landscape Repairs/Turn over	Approved		\$ 24,739.00	
AE36687-TO-021	Ridership Modeling and Risk Analysis and MOD 00001	Approved		\$ 78,372.00	

AE36687-TO-022	Metro Gold Line ROW and Easement Survey in the Vicinity of N Virginia Ave Grade Crossing Azusa	Approved		\$ 24,018.00	
AE36687-TO-023	MOL Improvements Project - Pilot Gates Project	Approved		\$ 1,477,940.00	
<b>Subtotal Approved Task Orders and Task Order Modifications</b>				<b>\$14,912,355.70</b>	
AE36687-TO-001-MOD-00004	Metro G Line (Orange) BRT Improvements Project – additional Engineering	Pending		\$ 1,500,000.00 (Estimated)	
AE3687-TO-023-MOD-00001	MOL Improvements Project - Pilot Gates Project – Additional ODC and DSDC for Installation Subcontract	Pending		\$ 1,500,000.00 (Estimated)	
TBD	Future Proposed Task Orders per Board Report list of eligible Projects	Proposed		\$ 4,587,644.30	
<b>Subtotal Pending and Proposed Task Orders and Task Order Modifications</b>				<b>\$ 7,587,644.30</b>	
<b>SUMMARY</b>					
<b>Subtotal Approved Task Orders and Task Order Modifications</b>				<b>\$14,912,355.70</b>	
<b>Subtotal Pending and Proposed Task Orders and Task Order Modifications</b>				<b>\$ 7,587,644.30</b>	
<b>TOTAL Approved, Pending, and Proposed Task Orders and Modifications including This Board Action</b>				<b>\$22,500,000.00</b>	
<b>Original Funding Limit</b>					<b>\$15,000,000.00</b>
<b>Exercise of First Option, Approved 05/28/2020 by the Board</b>					<b>\$ 2,500,000.00</b>
<b>Exercise of Second Option, including This Board Action</b>					<b>\$ 5,000,000.00</b>
<b>TOTAL AUTHORIZED FUNDING LIMIT</b>					<b>\$22,500,000.00</b>

## DEOD SUMMARY

**SUPPLEMENTAL ENGINEERING SERVICES (SES) CONSULTANT SERVICE  
CONTRACT/AE36687**

**A. Small Business Participation**

Mott MacDonald Group made a 17% Small Business Enterprise (SBE) and 3% Disabled Veteran Business Enterprise (DVBE) commitment for this contract. The overall SBE/DVBE participation for this on-call contract is based on the cumulative of all Task Orders (TOs) issued.

To date, twenty-three (23) task orders and subsequent modifications have been awarded. Based on payments reported, the contract is 86.69% complete, and the cumulative SBE participation is 25.06%, which exceeds the commitment by 8.06%. The cumulative DVBE participation is 1.76%, representing a 1.24% shortfall.

Mott MacDonald Group explained that Metro changed the procurement strategy for the G Line gated crossing improvements from *Design-Bid-Bid* to *Progress Design-Build* for which they had anticipated significantly more design work by DVBE MA Engineering. Also, DVBE Leland Saylor provides cost estimating services and Mott MacDonald Group has not had a significant task order issued where estimating was a part of the scope and has not been able to utilize Leland Saylor as anticipated. Mott MacDonald Group affirmed that it would continue to look for opportunities for MA Engineering and Leland Saylor for the remainder of the contract duration.

Notwithstanding, Metro Project Managers and Contract Administrators will work in conjunction with DEOD to ensure that Mott MacDonald Group remains on schedule to meet or exceed its SBE/DVBE commitments. Metro staff will request that Mott MacDonald submit updates to its mitigation plan if it is not on track to meet its small business commitment. Additionally, key stakeholders associated with the contract have been provided access to Metro's online monitoring system to ensure that all parties are actively tracking Small Business progress.

<b>Small Business Commitment</b>	<b>SBE 17% DVBE 3%</b>	<b>Small Business Participation</b>	<b>SBE 25.06% DVBE 1.76%</b>
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	<b>SBE Subcontractors</b>	<b>% Committed</b>	<b>Current Participation<sup>1</sup></b>
1.	Anil Verma	TBD	1.62%
2.	Arellano Associates	TBD	TBD
3	BA, Inc.	TBD	9.23%
4.	Earth Mechanics	TBD	0.81%
5.	Engineering Solutions Services	TBD	TBD
6.	Gibson Transportation	TBD	TBD

7.	Lenax	TBD	1.29%
8.	McLean & Schultz	TBD	2.50%
9.	Morgner Construction Management	TBD	TBD
10.	PacRim Engineering	TBD	0.43%
11.	Rail Surveyors Engineers	TBD	3.58%
12.	Terry Hayes and Associates	TBD	TBD
13.	The Alliance Group	TBD	0.94%
14.	The Solis Group	TBD	0.27%
15.	Wagner Engineering	TBD	4.28%
16.	TransLink Consulting	Added	0.12%
	<b>Total</b>	<b>17%</b>	<b>25.06%</b>

	<b>DVBE Subcontractors</b>	<b>% Committed</b>	<b>Current Participation<sup>1</sup></b>
1.	Leland Saylor	TBD	0.23%
2.	MA Engineering	TBD	1.53%
	<b>Total</b>	<b>3%</b>	<b>1.76%</b>

<sup>1</sup>Current Participation = Total Actual amount Paid-to-Date to SBE/DVBE firms ÷ Total Actual Amount Paid-to-date to Prime.

#### **B. Living Wage and Service Contract Worker Retention Policy Applicability**

The Living Wage and Service Contract Worker Retention Policy is not applicable to this contract.

#### **C. 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 U S Department of Labor (DOL) Davis Bacon and Related Acts (DBRA).

#### **D. Project Labor Agreement/Construction Careers Policy**

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract. Project Labor Agreement/Construction Careers Policy is applicable only to construction contracts that have a construction contract value in excess of \$2.5 million.