



Bay Area Infrastructure Financing Authority
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Memorandum

TO: BAIFA

DATE: April 18, 2018

FR: Executive Director

W. I. 6844, 6845

RE: Contract Change Orders – Express Lanes Backhaul Communications Network: Econolite Systems, Inc. (\$800,000 plus a \$100,000 contingency)

This memorandum seeks Authority approval, on a sole source basis, to enter into two contract change orders to the BAIFA contract with Econolite Systems, Inc. (Econolite) for the express lanes backhaul communications network (Backhaul). The contract change orders will be for additional network integration and maintenance services to support the Express Lanes I-880 Alameda (ALA-880) and I-680 Contra Costa Northern Segment (CC-680 North) projects. Both of these projects require network communications to the express lanes data center by early 2019, and therefore should be completed by the current Backhaul operator, Econolite.

Background

The Backhaul is a metropolitan area data network that is used to send traffic and toll data between the BAIFA express lanes corridors and the toll system host and operations data centers (see Figure 1). BAIFA awarded the contract to construct the Backhaul segment for the I-680 Contra Costa Southern Segment (CC-680 South) Express Lanes project to Econolite (formerly Aegis ITS, Inc.), and construction was completed in October 2017. The contract also included a twelve to eighteen month period of maintenance beginning in October 2017. BAIFA will procure a successor, long-term contract for Backhaul operations and maintenance in late 2018, with transition of responsibilities from Econolite to the operations and maintenance contract in early to mid-2019.

Express Lanes ALA-880 Construction and CC-680 North Fiber Reroute

Based on lessons learned on the CC-680 South project, BAIFA staff determined that in future corridors such as ALA-880 and CC-680 North, construction of the Backhaul field elements such as fiber optic conduit and cables and field cabinets should be included in the express lanes civil construction contracts for efficiencies in cost and scheduling. Once the field elements are in place, Econolite can then complete the Backhaul by installing network devices within the field cabinets and connecting them to the existing Backhaul infrastructure previously installed by the CC-680 South project.

The project timelines for ALA-880 and CC-680 North require completion of the Backhaul network integration prior to the transition to a new operations and maintenance contractor and therefore must be completed by Econolite.

The ALA-880 express lanes project is currently under construction by the civil contractor, Bay Cities Paving & Grading, Inc., and is scheduled to begin operation at the end of 2019. Econolite must install network devices and connect them to the express lanes datacenter by Summer 2018 to remain on schedule for toll system installation and testing. Staff estimates the Econolite work, network installation and maintenance within the contract term, to cost \$500,000.


The CC-680 North express lanes project is anticipated to begin construction in Fall 2018 and begin operation in Fall 2021. The construction includes roadway widening that will impact approximately 1.5 miles of existing Backhaul trunk line fiber in Walnut Creek. In order to minimize impact to the ongoing operations of the CC-680 South express lanes, a new segment of conduit must be constructed and the Backhaul fiber rerouted through the new conduit. This work is estimated to cost \$300,000 and to be completed by January 2019.

Staff recommends an additional \$100,000 for contingency to complete both the ALA-880 construction and CC-680 North fiber reroute.

Attachment A includes a summary of Econolite's and its project team's small business and disadvantaged business enterprise status.

Recommendation

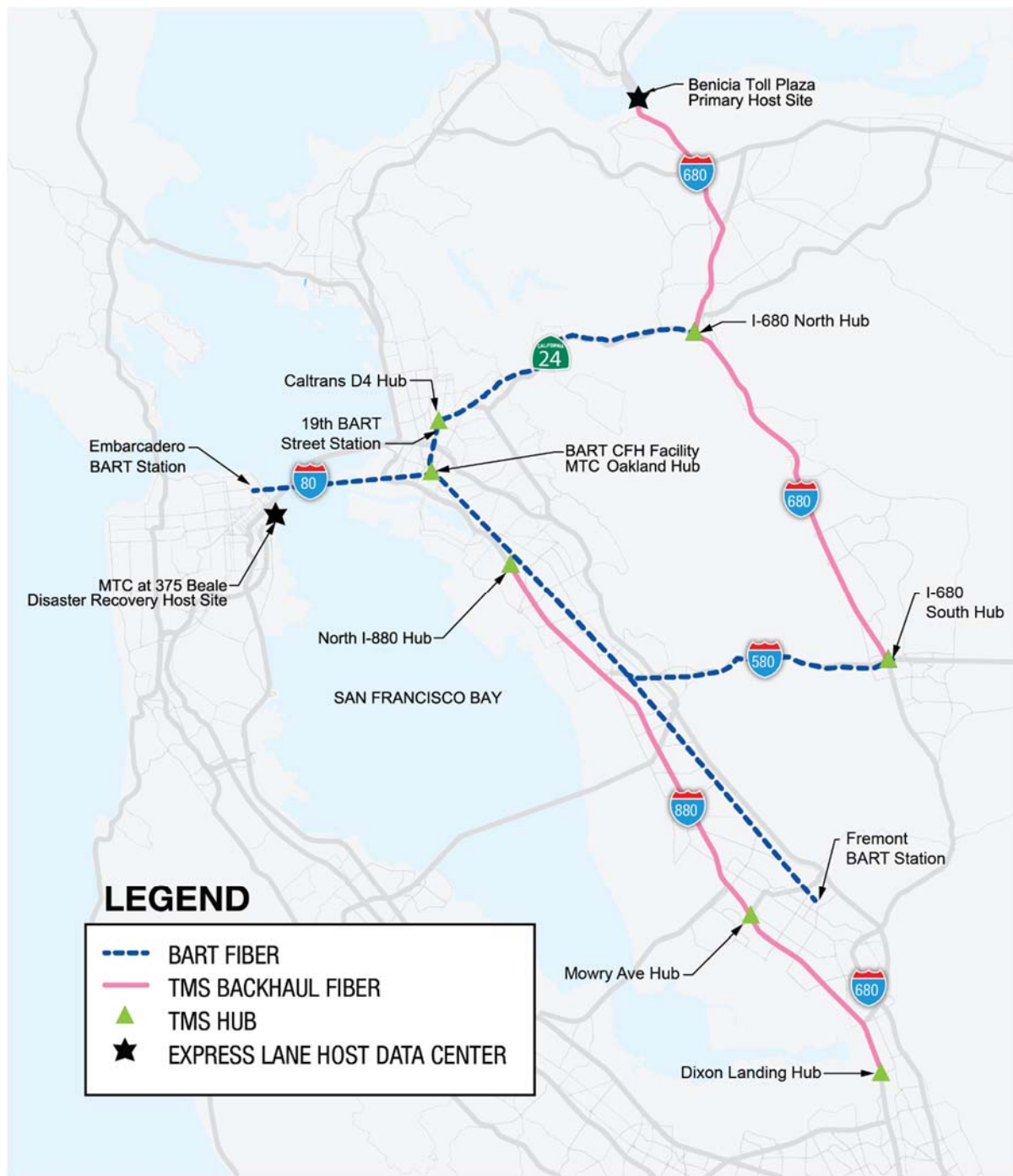
Staff recommends that the Authority authorize the Executive Director or his designee to negotiate and enter into two contract change orders with Econolite in a cumulative amount not to exceed \$800,000 to fund network integration and maintenance for the ALA-880 and CC-680 North projects, plus an increase in contingency in an amount of \$100,000 to be used at the Executive Director's or his designee's discretion.



Steve Heminger

SH:md
Attachment

Figure 1: Backhaul Communications Network



Attachment A (Econolite Systems, Inc.)
Small Business and Disadvantaged Business Enterprise Status

	Firm Name	Role on Project	DBE* Firm			SBE** Firm		
			Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	Econolite Systems, Inc.	General Contractor			X			X
Subcontractor	Team-EES	Subcontractor			X	X	1677900	
Subcontractor	M & M Hansen Communications Contracting	Subcontractor			X			X
Subcontractor	Statewide Construction Sweeping, Inc.	Subcontractor			X			X
Subcontractor	Statewide Traffic Safety & Signs	Subcontractor			X			X
Subcontractor	SSP Data Inc.	Subcontractor			X	X	56663	

*Denotes certification by the California Unified Certification Program (CUCP).

**Denotes certification by the State of California.

REQUEST FOR AUTHORITY APPROVAL

Summary of Contract Change Orders

Work Item No.:	6844, 6845
Contractor:	Econolite Systems, Inc.
Work Project Title:	Express Lanes Backhaul Communications Network
Purpose of Project:	Provide network integration and maintenance services for the Express Lanes I-880 Alameda (ALA-880) and I-680 Contra Costa Northern Segment Southbound Conversion (CC-680 North) projects.
Brief Scope of Work:	Installation and network integration of the ALA-880 network hubs to Backhaul and fiber optic conduit and cable rerouting required for the CC-680 North construction.
Project Cost Not to Exceed:	<p>Increase in contract with these change orders: \$800,000 cumulatively plus a contingency of \$100,000</p> <p>Total contract amount before these change orders: \$7,996,624 plus a remaining contingency of \$813,948</p> <p>Total authorized contract amount with these change orders: \$8,796,624 plus a contingency of \$913,948</p>
Funding Source:	BATA Express Lanes Capital Project Budget
Fiscal Impact:	Funding is included in the Express Lane Capital Project Budget, as adopted in the FY 2017-18 Toll Bridge Program Operating and Capital Budgets (BATA Resolution No. 122, Revised).
Motion by Authority:	That the Executive Director or his designee is authorized to negotiate and enter into two contract change orders in a cumulative amount not to exceed \$800,000 to Econolite Systems, Inc., for work as described above and in the Executive Director's memorandum dated April 18, 2018; that the Executive Director or his designee is authorized to use additional contingency funds in an amount of \$100,000 for any changes in work; and that the Chief Financial Officer is directed to set aside funds for such contract change orders and contingency as stated herein.
BAIFA:	<hr/> Jake Mackenzie, Chair
Approved:	Date: April 25, 2018