

**THIS PRINT COVERS CALENDAR ITEM NO. : 10.5**

**SAN FRANCISCO  
MUNICIPAL TRANSPORTATION AGENCY**

**DIVISION:** Capital Programs & Construction

**BRIEF DESCRIPTION:**

Awarding San Francisco Municipal Transportation Agency Contract No. 1262, Bernal Substation Upgrade, and authorizing the Director of Transportation to execute a contract with Balfour Beatty Rail, Inc., located at 512 So. Airport Blvd., South San Francisco, CA 94080, as the lowest responsive and responsible bidder, in the amount of \$3,546,880 and for a term of 365 calendar days.

**SUMMARY:**

- On May 3, 2012, the Director of Transportation of the San Francisco Municipal Transportation Agency (SFMTA) notified the SFMTA Board of Directors that he had authorized a bid call for Contract No. 1262, Bernal Substation Upgrade.
- The scope of work under this project includes replacing and upgrading the traction power and auxiliary equipment to bring the Bernal Substation back on-line; installing lightning and surge arrestors to protect the new traction power equipment from future damage; and constructing a new Phelps Substation Feeder Circuit #5 (P-5) along Third Street between Newcomb and Palou Avenues to feed the Overhead Contact System.
- Five bids were received and publicly opened on July 17, 2012.
- Staff recommends awarding Contract No. 1262 to Balfour Beatty Rail, Inc. as the lowest responsive and responsible bidder, in the amount of \$3,546,880.
- Federal and local sources are providing funds for the work under this contract.

**ENCLOSURES:**

1. SFMTAB Resolution
2. Project Budget & Financial Plan

**APPROVALS:**

**DATE**

DIRECTOR \_\_\_\_\_

08/13/12

SECRETARY \_\_\_\_\_

08/13/12

ASSIGNED SFMTAB CALENDAR DATE: August 21, 2012

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### **PURPOSE**

The purpose of this calendar item is to award SFMTA Contract No. 1262, Bernal Substation Upgrade, and to authorize the Director of Transportation to execute the contract with, Balfour Beatty Rail, Inc. in an amount not to exceed \$3,546,880 and a for term of 365 calendar days.

### **GOAL**

Contract No. 1262 would assist in the implementation of the following goals, objectives and initiatives in the SFMTA Strategic Plan:

Goal 1: Create a safer transportation experience for everyone.

- Objective 1.1 Improve security for transportation system users.
- Objective 1.3 Improve the safety of the transportation system.

Goal 2: Make transit, walking, bicycling, taxi, ridesharing & carsharing the preferred means of travel.

- Objective 2.2 Improve transit performance.

Goal 3: Improve the environment and quality of life in San Francisco

- Objective 3.1 Reduce the Agency's and the transportation system's resource consumption, emissions, waste and noise.
- Objective 3.2 Increase the transportation system's positive impact to the economy.
- Objective 3.3 Allocate capital resources effectively.
- Objective 3.4 Deliver services efficiently.

Goal 4: Create a workplace that delivers outstanding service

- Objective 4.1 Improve internal communications.
- Objective 4.2 Create a collaborative and innovative work environment.
- Objective 4.3 Improve employee accountability.
- Objective 4.4 Improve relationships and partnerships with our stakeholders.

### **DESCRIPTION**

#### Background

The Bernal Substation Upgrade project is part of the Traction Power Substations Program, which is a subcomponent of the Overhead Rehabilitation Program and Traction Power System in the SFMTA Capital Plan. The Overhead Rehabilitation program provides for the phased replacement and the upgrade of the traction power system that provides 615-volt D.C. power to the SFMTA's fleet of trolley coaches, light rail vehicles, and historic streetcars. The SFMTA Capital Plan includes projects to build and maintain the fixed guideway elements – such as trackway for light rail vehicles, trolleys and cable cars; and the traction power system for trolleys, trolley coaches, and light rail vehicles. The traction power system includes the Overhead Contact System (OCS), including, but not

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limited to, overhead wires, support poles, traction power substations, feeder circuits and other components.

The Bernal Substation, located at 425 Andover Street, was built in 1982 to supply electric power to the OCS for the 24-Divisadero trolley coach line along 30<sup>th</sup> Street, Cortland Avenue, and Industrial/Palou Avenue. In 2005, SFMTA decommissioned the Bernal Substation due to lightning damage to the rectifier transformer. Since then, the power to the 24-Divisadero line along these corridors has been provided through a tie-in to the Glen Park Substation.

The project will replace the existing equipment in the substation and bring the substation back on line. There is a low voltage condition at the end of the 24-Divisadero line that compromises vehicle performance. The project will also construct a new feeder circuit to alleviate the low voltage condition. The proposed Bernal Substation Upgrade project will improve maintainability, reliability, safety, and quality of service for the 24-Divisadero Line.

#### Scope of Work

The work to be performed under the project scope includes, but is not limited to, the following:

- Replacing and upgrading the existing traction power and auxiliary equipment to bring the Substation back on line. The equipment includes the AC and DC line-ups, the transformer and rectifier assemblies, the station battery and charger system, the fire alarm and security systems, panel board, switches, and the conduit and wiring system.
- Installing lightning arrestors on the line side of the power transformer and surge arrestors on the load side of the DC feeder breakers to protect the new traction power equipment from future damage.
- Constructing a new Phelps Substation Feeder Circuit #5 (P-5) to alleviate the low voltage condition at the end of the 24-Divisadero line. Feeder Circuit #5 will be constructed by: 1) installing feeder cables between the Phelps Substation and a manhole at Third and Palou Streets, and 2) installing conduits and positive and negative riser cables between manholes along Third Street between Newcomb and Palou Avenues to feed the OCS. Insulators will be installed to isolate the existing BE-2 feeder circuit from the new P-5 feeder circuit.

The time allotted to substantially complete construction of the project is 365 calendar days from the date of the written Notice to Proceed. The Contractor shall complete all remaining work within 120 calendar days from Substantial Completion. Liquidated damages are \$10,000 per calendar day of delay to substantially complete construction and \$2,000 per calendar day of delay in final completion of all remaining contract work.

#### Bids Received

On May 3, 2012, the Director of Transportation notified the SFMTA Board of Directors that he had authorized a bid call for Contract No. 1262 in accordance with Board Resolution No. 09-191, which delegates, among other things, the authority to issue bid calls to the Director of Transportation.

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On July 17, 2012, SFMTA’s Capital Programs and Construction Division received and publicly opened five bid proposals.

The five bid proposals received were as follows:

Bidders		Bid Amount
1	Balfour Beatty Rail, Inc. 512 South Airport Boulevard, South San Francisco, CA 94080	\$3,546,880
2	Shimmick Construction Company, Inc. 8201 Edgewater Drive, Suite 202, Oakland, CA 94621	\$3,561,400
3	NTK Construction, Inc. 501 Cesar Chavez Street, Ste. 123 San Francisco, CA 94124	\$3,562,340
4	Cal Electric, Inc. 5199 Airport Road, Redding, CA 96002	\$3,733,050
5	Schembri Construction Co., Inc. 1485 Bayshore Blvd., #130, San Francisco, CA 94124	\$4,344,625

The engineer's estimate was \$4,000,000 - \$5,000,000. After reviewing all proposals, staff has determined that Balfour Beatty Rail, Inc. is the lowest responsive and responsible bidder.

The Contract Compliance Office reviewed the bid proposals and confirmed that Balfour Beatty Rail, Inc. will meet the Small Business Enterprise (SBE) participation goal of 15 percent established for this contract and will commit to meeting the Non-discrimination Equal Employment Requirements of the contract. Balfour Beatty Rail, Inc. is in compliance with Chapter 12B (Equal Benefits provision) of the San Francisco Administrative Code.

Contract documents are not attached to this Calendar Item but are available for review at the Board Secretary’s Office located at One South Van Ness Ave. Seventh Floor, San Francisco, CA 94103.

**ALTERNATIVES CONSIDERED**

The project team held discussions with SFMTA maintenance staff concerning whether the work should be done by in-house staff. The preference was to have a contractor perform the work because contractors have enough crews with electrical and construction expertise to complete the work in a timely manner with minimal impact to Operations. Staff determined that contracting out to contractors was the practical alternative.

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**FUNDING IMPACT**

The conceptual engineering phase of the project was funded with programmed Federal Transit Administration (FTA) funds, with 20 percent AB664 Bridge Toll Funds serving as local match. Funding for detailed design and construction phases came from a combination of programmed FTA funds, with 20 percent local matching funds from Prop K. All funding for this project has been secured.

The budget and financial plan for this project is presented in Enclosure 2 of the calendar item.

**OTHER APPROVALS RECEIVED OR STILL REQUIRED**

The City Attorney has reviewed this report.

No other approvals are required.

**RECOMMENDATION**

Staff recommends that the SFMTA Board of Directors award and authorize the Director of Transportation to execute SFMTA Contract No. 1262, Bernal Substation Upgrade, to Balfour Beatty Rail, Inc., for a contract amount of \$3,546,880 and a term of 365 calendar days.

SAN FRANCISCO  
MUNICIPAL TRANSPORTATION AGENCY  
BOARD OF DIRECTORS

RESOLUTION No. \_\_\_\_\_

WHEREAS, San Francisco Municipal Transportation Agency (SFMTA) Contract No. 1262, Bernal Substation Upgrade, is identified in the latest San Francisco Municipal Railway Short Range Transit Plan under the Infrastructure Program, which consists of capital projects to rehabilitate and maintain fixed guideway and make infrastructure repairs and improvements within the Overhead Rehabilitation Program; and,

WHEREAS, The work to be performed under this project includes replacing and upgrading the traction power and auxiliary equipment to bring the Bernal Substation back on-line; installing lightning and surge arrestors to protect the new traction power equipment from future damage; and constructing a new Phelps Substation Feeder Circuit #5 (P-5) along Third Street between Newcomb and Palou Avenues to feed the Overhead Contact System; and,

WHEREAS, On May 3, 2012, the Director of Transportation notified the SFMTA Board of Directors that he had authorized a bid call for Contract No. 1262 in accordance with Board Resolution No. 09-191, which delegates, among other things, the authority to issue bid calls to the Director of Transportation; and,

WHEREAS, On July 17, 2012, the SFMTA received and publicly opened five bid proposals in response to its invitation for bids; and,

WHEREAS, the SFMTA determined that Balfour Beatty Rail, Inc., located at 512 South Airport Boulevard, South San Francisco, CA 94080, is the lowest responsive and responsible bidder, with a bid of \$3,546,880; and,

WHEREAS, The SFMTA Contract Compliance Office reviewed the bid proposals and confirmed that Balfour Beatty Rail, Inc. will meet the Small Business Enterprise participation goal of 15 percent established for this contract and will commit to meeting the Non-discrimination Equal Employment Requirements of the contract; and

WHEREAS, The project is funded by Federal grants (80 percent) and by local funding sources (20 percent); now, therefore, be it

RESOLVED, That SFMTA Board of Directors authorizes the Director of Transportation to execute, SFMTA Contract No. 1262, Bernal Substation Upgrade, with Balfour Beatty Rail, Inc., as the lowest responsive and responsible bidder, in an amount not to exceed \$3,546,880 and for a term of 365 calendar days.

I certify that the foregoing resolution was adopted by the San Francisco Municipal Transportation Agency Board of Directors at its meeting of August 21, 2012.

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Secretary to the Board of Directors  
San Francisco Municipal Transportation Agency

**ENCLOSURE 2**

**Contract No. 1262**

**Bernal Substation Upgrade  
Project Budget and Financial Plan**

**PROJECT BUDGET**

<b>Category</b>	<b>Budget</b>
Conceptual Engineering Phase Staff Support (SFMTA and Other Dept. Services)	\$280,000
Detail Design Phase Staff Support (SFMTA and Other Dept. Services)	\$500,000
Construction Phase Construction Contract, Contingency, and Staff Support	\$6,546,000
<b>Total Cost</b>	<b>\$7,326,000</b>

**FINANCIAL PLAN**

<b>Project Funding Source</b>	<b>Amount</b>
Federal Grant	\$5,860,800
Local Grants	
Proposition K	\$1,409,200
AB664 Bridge Toll Funds	\$56,000
<b>Total</b>	<b>\$7,326,000</b>