

**THIS PRINT COVERS CALENDAR ITEM NO. : 10.4**

**SAN FRANCISCO  
MUNICIPAL TRANSPORTATION AGENCY**

**DIVISION:** Sustainable Streets

**BRIEF DESCRIPTION:**

Authorizing the Department of Public Works (DPW) to award DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, to Phoenix Electric Company, 1350 Van Dyke Avenue, San Francisco, California 94124, for a total contract amount not to exceed \$1,176,888 and for a contract term not to exceed 330 days.

**SUMMARY:**

- On March 1, 2013, the Director of Transportation notified the Board that he had authorized a bid call for DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, for traffic signal work at 17 intersections.
- The engineer's detailed cost estimate for the work was \$1,171,644.
- Among the three bids that were received on April 17, 2013, DPW identified Phoenix Electric Company as the lowest responsive and responsible bidder with a bid of \$1,176,888 (less than one percent above the engineer's estimate).
- The contract work will be funded through private developer funds for work at two signals along Masonic Avenue and local sales taxes (Proposition K funds) for the remaining 15 intersections.
- The Contract Compliance Officer from the Human Rights Commission has reviewed this calendar item and has confirmed that Phoenix Electric Company will meet the 25 percent Local Business Enterprise (LBE) subcontracting participation goal for this project.

**ENCLOSURES:**

1. SFMTAB Resolution
2. Project Budget and Financial Plan

**APPROVALS:**

**DATE**

DIRECTOR \_\_\_\_\_

5/8/13

SECRETARY \_\_\_\_\_

5/8/13

**ASSIGNED SFMTAB CALENDAR DATE:** May 21, 2013

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### **PURPOSE**

SFMTA staff requests this Board to authorize the DPW to award DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, to Phoenix Electric Company, 1350 Van Dyke Avenue, San Francisco, California 94124, for a total contract amount not to exceed \$1,176,888 and for a contract term not to exceed 330 days.

### **GOAL**

On January 3, 2012, the SFMTA Board of Directors approved a new SFMTA Strategic Plan for Fiscal Years 2013-2018. The Strategic Plan includes four overarching goals that shape how the SFMTA focuses its attention, resources, and staff. The SFMTA will further the following goals and objectives of the Strategic Plan through the award and execution of this contract.

Goal 1: Create a safer transportation experience for everyone

Objective 1.3: Improve the safety of the transportation system

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

Objective 2.3: Increase use of all non-private auto modes

### **DESCRIPTION**

#### **Scope of Work**

The SFMTA Sustainable Streets Division (SSD), utilizing DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, will perform traffic signal modifications at 16 intersections and a new traffic signal installation at one intersection in San Francisco (the Work). These intersections are as follows: 2<sup>nd</sup> and King streets; 13<sup>th</sup> and Harrison streets; 25<sup>th</sup> Avenue, Crossover Drive and Fulton Street; Anza Street, Masonic Avenue and O'Farrell Street; Battery Street and Broadway; Broadway and Kearny streets; Broadway and Montgomery streets; Broadway and Sansome streets; Circular Street and Monterey Boulevard; Divisadero and Turk streets; Ewing Terrace and Masonic Avenue (new signal); Franklin Street and Geary Boulevard; Geneva and San Jose avenues; Gough and Hayes streets; Oak and Octavia streets; Plymouth Street, Sagamore Street, Sickles Avenue and San Jose Avenue; and Powell and Sutter streets.

The Work involves the installation of new wiring, conduits, poles, traffic signal controllers, vehicle signals, pedestrian signals with countdown timers, and Americans with Disabilities Act (ADA) compliant curb ramps. The Work is more specifically described in the "Contract 33 Traffic Signal Modifications Contract No. 2108J Project Manual" and the accompanying contract plans and miscellaneous reference drawings are available for inspection at DPW's Bureau of Engineering, 30 Van Ness Avenue, 5<sup>th</sup> Floor, San Francisco, California.

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The SFMTA SSD selected these locations to improve vehicle and pedestrian safety based on the presence of public transit vehicles and heavy vehicle and pedestrian traffic.

The Work is designed to improve safety by seeking to reduce the frequency of right angle collisions, improving right of way assignment for vehicles and pedestrians, and allowing minor side street vehicle and pedestrian traffic to enter or cross the major street with less difficulty.

The project is categorically exempt under the California Environmental Quality Act.

SFMTA SSD staff performed the initial conceptual design and most of the detailed electrical design for this contract. DPW staff performed the detailed electrical design review, contract preparation, and contract advertising. DPW staff will also provide construction management services.

The time allotted for substantial completion of the Work is 330 calendar days from the written Notice to Proceed. Liquidated damages are \$1,500 per day for contractor's delay that results in failure to complete the Work on time.

### **Solicitation for Bids and Bid Opening**

On March 1, 2013, the Director of Transportation notified the SFMTA Board that he had authorized a bid call for DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, for traffic signal modifications at 17 intersections in San Francisco.

On March 2, 2013, the City solicited bids for said Contract through public advertisements in the San Francisco Chronicle and the Small Business Exchange. In addition, the public advertisement was listed until the day of the bid opening on the City's internet website at <http://www.sfgov.org/oca/purchasing>.

On April 17, 2013, DPW received and publicly opened the following three bids for DPW Contract No. 2108J:

- Phoenix Electric Company  
1350 Van Dyke Avenue  
San Francisco, California 94124  
Bid Amount: \$1,176,888
- Bay Area Lightworks, Inc.  
1460 Yosemite Avenue  
San Francisco, CA 94124  
Bid Amount: \$ 1,536,963

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- Tennyson Electric, Inc.  
7275 National Drive  
Livermore, CA 94550  
Bid Amount: \$ 1,874,760

As the lowest responsive and responsible bidder, staff recommends awarding to Phoenix Electric Company in the amount of \$1,176,888. This bid is less than one percent above the engineer's estimate.

Phoenix Electric Company is a responsible contractor with extensive experience in traffic signal installations in the City. Phoenix Electric Company has completed the following recent traffic signal contracts: DPW Contract No. 1499J Contract 59: New Traffic Signals (completed February 2010), DPW Contract No. 1099J: *SFgo* Various Locations Contract 1 (completed March 2011), and Muni Contract No. 1250: Third Street Light Rail Program Phase 2 Central Subway Moscone Station and Portal Utilities Relocation (completed September 2011).

In its bid for DPW Contract No. 2108J, Phoenix Electric Company listed the following subcontractors:

- A. Ruiz Construction (LBE)
- J.R. Monterosa (LBE)
- Alta Engineering (LBE)
- Omega Pacific Electrical Supplier (LBE)

#### **ALTERNATIVES CONSIDERED**

Instead of contracting out using the competitive bid process for the construction of DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, the following alternatives were also considered but not selected:

- No-build option – This option was not chosen because traffic signal modifications such as the installation of new pedestrian countdown signals at key intersections have been found to enhance safety. Also, replacement of existing equipment such as poles, signal heads, conduits, wiring, and signal controllers using a construction contract was found to be the best option because most existing equipment was nearing or exceeding its typical useful life. Some existing poles such as streetlight poles will be reused when possible.
- Rebidding and/or renewing an existing contract – This option does not apply to Contract No. 2108J.

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- Use of SFMTA in-house staff – Implementation of traffic signal modifications through the use of in-house staff was found to not be feasible. SFMTA in-house staff such as the SSD Traffic Signal Shop are primarily staffed and equipped to perform maintenance of existing traffic signals.

Staff concluded that contracting out through the use of the competitive bidding process was the best alternative to proceed with the construction of DPW Contract No. 2108J. Historically, contracting out via competitive bidding has been the primary way that traffic signal modifications have been implemented in the City; SSD has found this method to be a cost-effective and efficient way to implement traffic signal modifications.

## **FUNDING IMPACT**

The Work is funded through local sales taxes (Proposition K funds) and private developer funds. Please refer to the attached Project Budget and Financial Plan – Enclosure 2, for details.

For the design phase of this project, the San Francisco County Transportation Authority (SFCTA) approved \$317,000 from local sales tax revenues (Proposition K funds). The private developer for the new Target store at Masonic Avenue provided an additional \$75,000. The total design budget was \$392,000.

For the construction phase of this project, the SFCTA approved \$2,048,000 in local sales taxes (Proposition K funds). The private developer for the new Target store at Masonic Avenue is providing an additional \$425,000 for signal work at two intersections along Masonic Avenue.

Operating funds required for the maintenance of traffic signals to be constructed as part of DPW Contract No. 2108J are included in the SFMTA's FY14 Operating Budget.

## **OTHER APPROVALS RECEIVED OR STILL REQUIRED**

The Contract Compliance Officer from the Human Rights Commission has confirmed that Phoenix Electric Company meets the 25 percent Local Business Enterprise (LBE) subcontracting participation goal for this project.

The City Attorney's Office has reviewed this report.

## **RECOMMENDATION**

Staff recommends that the SFMTA Board of Directors authorize DPW to award DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, to Phoenix Electric Company, 1350 Van Dyke Avenue, San Francisco, California 94124, for a total contract amount not to exceed \$1,176,888 and for a contract term not to exceed 330 days.

SAN FRANCISCO  
MUNICIPAL TRANSPORTATION AGENCY  
BOARD OF DIRECTORS

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

WHEREAS, The San Francisco Municipal Transportation Agency's (SFMTA) Sustainable Streets Division (SSD) identifies intersections for traffic signal modifications to be funded by local sales taxes; and,

WHEREAS, SSD has identified the following 17 intersections for traffic signal work to improve vehicle and pedestrian safety based on the presence of public transit vehicles, and heavy vehicle and pedestrian traffic: 2<sup>nd</sup> and King streets; 13<sup>th</sup> and Harrison streets; 25<sup>th</sup> Avenue, Crossover Drive and Fulton Street; Anza Street, Masonic Avenue and O'Farrell Street; Battery Street and Broadway; Broadway and Kearny streets; Broadway and Montgomery streets; Broadway and Sansome streets; Circular Street and Monterey Boulevard; Divisadero and Turk streets; Ewing Terrace and Masonic Avenue (new signal); Franklin Street and Geary Boulevard; Geneva and San Jose avenues; Gough and Hayes streets; Oak and Octavia streets; Plymouth Street, Sagamore Street, Sickles Avenue and San Jose Avenue; and Powell and Sutter streets (the Work); and,

WHEREAS, SSD proposes to perform the Work under Department of Public Works (DPW) Contract No. 2108J: Contract 33 Traffic Signal Modifications; and,

WHEREAS, The Work involves the installation of new wiring, conduits, poles, traffic signal controllers, vehicle signals, pedestrian signals with countdown timers, and Americans with Disabilities Act compliant curb ramps; and,

WHEREAS, The Work will be funded through local sales taxes (Proposition K funds) and private developer funds; and,

WHEREAS, On March 1, 2013, the Director of Transportation notified the SFMTA Board of Directors that he had authorized a bid call for DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications; and,

WHEREAS, The City advertised bids for DPW Contract No. 2108J and received three bids, which were opened publicly on April 17, 2013; and,

WHEREAS, DPW has determined that Phoenix Electric Company is the lowest responsive and responsible bidder, with a bid of \$1,176,888; and,

WHEREAS, The Contract Compliance Officer from the Human Rights Commission has confirmed that Phoenix Electric Company meets the established Local Business Enterprise subcontracting participation goal of 25 percent for this contract; now, therefore, be it

RESOLVED, That the San Francisco Municipal Transportation Agency Board of Directors authorizes the Department of Public Works to award DPW Contract No. 2108J: Contract 33 Traffic Signal Modifications, to Phoenix Electric Company, 1350 Van Dyke Avenue, San Francisco, California 94124, for a total contract amount not to exceed \$1,176,888 and for a contract term not to exceed 330 days.

I certify that the foregoing resolution was adopted by the San Francisco Municipal Transportation Agency Board of Directors at its meeting of May 21, 2013.

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Secretary to the Board of Directors  
San Francisco Municipal Transportation Agency

**ENCLOSURE 2**

**DEPARTMENT OF PUBLIC WORKS  
CONTRACT NO. 2108J: CONTRACT 33 TRAFFIC SIGNAL MODIFICATIONS**

**PROJECT BUDGET AND FINANCIAL PLAN**

**PROJECT BUDGET**

<b>Category</b>	<b>Budget Amount</b>
Design Engineering (SFMTA SSD and DPW)	\$392,000
Construction Contract Cost	\$1,176,888*
Contract Contingency (10% of Engineer's Estimate)	\$117,164
Agency-furnished Traffic Signal Hardware	\$290,000
Construction Engineering	\$577,124
Reserve	\$311,824
<b>TOTAL (DESIGN AND CONSTRUCTION PHASES)</b>	<b>\$2,865,000</b>

\*Engineer's Estimate was \$1,171,644

**FINANCIAL PLAN**

<b>Funding Source</b>	<b>Amount</b>	<b>Percentage</b>
Local sales tax revenues (Proposition K funds)	\$2,365,000	83%
Developer funds (for signal work at two Masonic avenue intersections)	\$500,000	17%
<b>TOTAL</b>	<b>\$2,865,000</b>	<b>100%</b>