AGENDA BILL

Beaverton City Council
Beaverton, Oregon

SUBJECT: Bid Award – Light Emitting Diode (LED) Street Light Fixtures – Beta LEDway™ Brand "Or Equal" Requirements Contract

FOR AGENDA OF: 11-02-2010 **BILL NO:** 10209

Mayor's Approval:

DEPARTMENT OF ORIGIN: Public Works

DATE SUBMITTED: 10-21-2010

CLEARANCES:
City Attorney
Asst. to Mayor
Purchasing
Finance

PROCEEDING: CONSENT AGENDA (CONTRACT REVIEW BOARD)

EXHIBITS:
1. Bid Summary
2. Bid Analysis
3. Agenda Bill # 09200

BUDGET IMPACT

EXPENDITURE REQUIRED	AMOUNT BUDGETED	APPROPRIATION REQUIRED
$ 157,851	$ 400,000	

* 001-13-0452-408 General Fund, Non-Departmental, Energy Efficiency Conservation Grant, Street Lights to Light Emitting Diode (LED) The $400,000 Amount Budgeted is a component of the $914,900 in federal energy efficiency grant funds that the City was awarded, designated for energy efficiency in City street lights. The balance of $242,149 ($400,000 less $157,851) will be used for additional energy efficiency upgrades to street lights under a separate bid award process.

RECOMMENDED ACTION:

Council, acting as the City's Contract Review Board:

1. Find that the bid submitted by Crescent Electric Supply Company offering the General Electric brand of LED street light fixtures is non-responsive (details provided in Information for Consideration section); and
2. Award a contract in a form approved by the City Attorney in the amount of $157,851 for FY 2010-11 to Crescent Electric Supply Company, Portland, Oregon, offering the Beta LEDway™ brand of LED street light fixtures; and
3. Approve automatic contract renewal for up to four additional one-year periods based on Council's approval of the future FY 2011-12 through FY 2015-16 budgets.

HISTORICAL PERSPECTIVE:

On October 26, 2009, Council accepted the Grant Award from the FY 2009 American Recovery and Reinvestment Act (ARRA) Energy Efficiency and Conservation Block Grant (EECBG) Program and authorized the Special Purpose Grant Budget Adjustment Resolution, which provided the necessary appropriations to expend the $914,900 grant award (Agenda Bill # 09200 attached) on projects throughout the city.

Four hundred thousand dollars of the total grant award was intended to be used for street light upgrades using energy-efficient LED street light fixtures on 34 of the city's traffic signals and along three road corridors:

- S.W. Hall Blvd -- between S.W. Creekside Blvd. and S.W. Allen Blvd.,
- S.W. Farmington Rd. -- between S.W. Cedar Hills Blvd. and Griffith Drive, and
- S.W. Broadway -- between S.W. Watson Ave. and Canyon Rd.

An engineering analysis was performed by the transportation engineering firm Kittelson & Associates, Inc. of Portland, Oregon, to determine how well LED fixtures could meet the minimum lumen requirements for roadway lighting at the 34 identified traffic signals and the road corridor along S.W. Hall Blvd. using the existing pole locations and infrastructure to retrofit the light poles with LED fixtures. Three brands of LED lights were included in the analysis: Beta LEDway™ brand, GE Evolve brand, and Hadco Evolaire brand. The independent engineering study concluded that the Beta LEDway™ brand of LED street light fixtures was the brand of LED street light fixtures best suited for city use.

INFORMATION FOR CONSIDERATION:

The invitation for bid was advertised in the Daily Journal of Commerce on September 17, 2010. Eight

BID SUMMARY
CITY OF BEAVERTON

TO: Mayor & City Council
FROM: Purchasing Division
SUBJECT: Bid Opening **October 5, 2010** at 2PM in the **FINANCE DEPARTMENT**

For: **LIGHT EMITTING DIODE (LED) STREET FIXTURES – BETA LEDway ™ BRAND "OR" EQUAL, REQUIREMENTS CONTRACT**
Witnessed by: Steve Brennan and Jabra Khasho

VENDOR NAME CITY, STATE	Ack. Addendum	Certification and Contract Offer	Bid on All Items	Responsive/ Non-Responsive	Manufacturer/ Make of Product	GRAND TOTAL BID AMOUNT
Crescent Electric Supply Company Portland, OR	Yes	Yes	No	Non-Responsive	GE	$107,050.00
SeaTac Lighting & Controls LLC Beaverton, OR	Yes	Yes	Yes	Responsive	LEDTEK GCA Series	$107,660.00
Holophane Lighting Portland, OR	Yes	Yes	Yes	Responsive	Holophane	$108,750.00
LED Roadway Lighting C/O Seaport Lighting, Ptld, OR	Yes	Yes	Yes	Responsive	LED Roadway Lighting	$126,748.05
DataLED Technologies, Inc	Yes	Yes	Yes	Responsive	STARLED	$144,750.00
Solus, Inc Portland, OR	Yes	Yes	Yes	Responsive	Cooper Lighting/McGraw-Edison – Ventus Series	$147,528.00
Crescent Electric Supply Company Portland, OR	Yes	Yes	Yes	Responsive	Beta	$157,851.00
Ecotitanenergy LLC Lafayette, OR	Yes	Yes	Yes	Responsive	Beacon/Div of Hubbell	$167,774.00

The Purchasing process has been confirmed.

Signed: Terry L Marott
Purchasing Division-Finance Dept.

The above amounts have been checked: (YES) NO

Date: 10/5/10

LED Comparison

Vendor	Crescent Electric	Data LED Tech Inc	Seaport Lighting	Solus Inc	Seatac Lighting & Control	Holophane Lighting	Ecotitanengery LLC
LED Specification	BETA LED	STARLED	LED Roadway Lighting	Cooper Lighting	LEOTEK		Beacon LED
2.1.1 Light Distribution							
Photometric data	Y	Y	Y	Y	Y	Y	Y
2.1.2 Lumen Maintenance							
Less than 15% @ 350mA current	Y	N/A	N/A	Y	N/A	N (0.83)	N/A
Less than 20% @ 525mA current	Y	N/A	N/A	N/A	N/A	N/A	N/A
Less/equal to 30% @ 700mA current	Y	N/A	Y	N/A	N/A	N/A	N/A
2.1.3 Lumen Depreciation	Y	N/A	Y	N/A	N/A	Y	N/A
2.1.4 LED life rating							
100K hr @ 350mA current	Y	N/A	N/A	N/A	N/A	Y(105K)	N/A
70K hr @ 525mA current	Y	N/A	N/A	N/A	N/A	Y(115K)	N/A
35K hr @ 700mA current	Y	N/A	N/A	N/A	N/A	N/A	N/A
2.1.5 Color temp. & Color rendering							
CCT=6000K +/-500K	Y	Y	Y	Y	N/A	Y	N/A
CRI greater/equal to 70	Y	N/A	N/A	Y	N/A	N/A	Y
2.1.6 Luminaire operation temp.							
-40C to 40C	Y	N/A	Y(-40C - 60C)	N(-30C - 40C)	N/A	Y(-40C - 50C)	N/A
2.1.7 Physical/mechanincal							
Housing component to be low copper/al; with heat sink	Y	N/A	N/A	N/A	Y	N/A	Y
No active cooling features	Y	N/A	y	Y	Y	Y	Y
Modular upgradability	Y	N/A	N/A	N/A	Y	N/A	N/A
Electro-deposite epoxy primer	Y	N/A	Y	Y	Y	N/A	N/A
Tool less access to LED compartment	Y	N/A	N/A	Y	Y	Y	N/A
Tool less removal/installation of LED driver/gear	Y	N/A	N/A	Y	Y	Y	N/A
Integrated buble level	Y	N/A	Y	Y	N/A	N/A	N/A
Weight not to exceed 25 lbs	Y	N/A	Y	N/A	N/A	N/A	N/A
2.1.8 Factory Installed Options							

N/A: not available from bid package provided by vendor
Y: met specification
N: information provided by vendor but does not meet specification

IP 66 rating	Y	IP65	Y	Y	Y	Y	Y
Internal fusing	Y	N/A	Y	Y		N/A	N/A
NEMA photo receptacle	Y	Y	Y	Y	Y	Y	N/A
Backlight cut off shielding	Y	N/A	N/A	Y		N/A	N/A
2.1.9 Safety							
Wet listed in US/Canada	Y	UL E328802	N/A	Y	Y	N/A	Y
2.1.10 Driver Specs							
Electronic	Y	N/A	N/A	Y	N/A	N/A	Y
Input voltage rangen 120-277 +/-10%	Y	N/A	Y	Y	N/A	Y	Y
Ouput current 0.35A dc	Y	N/A	N/A	Y	N/A	N/A	N/A
Input frequency 50/60 Hz	Y	N/A	Y	Y	N/A	Y	N/A
Power factor >90% @ full load	Y	N/A	Y	Y	N/A	Y	N/A
THD <20% full load	Y	N/A	N/A	Y	Y	N/A	N/A
Load regulation +/-1%	Y	N/A	N/A	Y	N/A	N/A	3%
Output ripple <10%	Y	N/A	N/A	N/A	N/A	N/A	N/A
Isolated output	Y	N/A	N/A	N/A	N/A	N/A	N/A
Case temp: -40C to 80C	Y	N/A	N/A	Y	N/A	N/A	N(-30C to 60C)
Overheat/short circuit/overload protections	Y	N/A	Y	Y	N/A	Y	Y
Primary fused	Y	N/A	N/A	Y	N/A	N/A	N/A
Life rating: 0.5% failure rate @ 150K operating hr	Y	N/A	N/A	N/A	N/A	100K	N/A
2.1.11 Lighting control options							
Compatibility for wireless and power line carrier control	Y	N/A	N/A	N/A	N/A	Y	N/A
2.1.12 Warranty							
5 yr LED/5 yr driver/10 yr paint	Y	N(5/5/5)	Y(7/7/10)	N(5/5/5)	N(5/5/5)	N(5/5/5)	Y(5/5/10)

N/A: not available from bid package provided by vendor
Y: met specification
N: information provided by vendor but does not meet specification

10-15-09PM2:43 RCVD

AGENDA BILL

Beaverton City Council
Beaverton, Oregon

SUBJECT: Acceptance of Grant Award from the FY 2009 American Recovery and Reinvestment Act (ARRA) Energy Efficiency and Conservation Block Grant (EECBG) Program and Authorize Appropriations Through a Special Purpose Grant Budget Adjustment Resolution

FOR AGENDA OF: 10-26-09 **BILL NO:** 09200

Mayor's Approval:

DEPARTMENT OF ORIGIN: CDD

DATE SUBMITTED: 10-09-09

CLEARANCES: City Attorney
Asst. to Mayor
Finance
Planning

PROCEEDING: CONSENT AGENDA

EXHIBITS: Special Purpose Grant Budget Adjustment Resolution

BUDGET IMPACT

EXPENDITURE	AMOUNT	APPROPRIATION
REQUIRED $914,900	BUDGETED $0	REQUIRED $914,900*

*The appropriation required is funded by the Energy Efficiency and Conservation Block Grant (EECBG) program and will be established through the attached special purpose grant budget adjustment resolution.

RECOMMENDED ACTION:
Council accept the $914,900 FY 2009 American Recovery and Reinvestment Act (ARRA), Energy Efficiency and Conservation Block Grant (EECBG), and authorize the attached Special Purpose Grant Budget Adjustment Resolution, which provides the necessary appropriations to expend the $914,900 grant award.

HISTORICAL PERSPECTIVE:
On June 25, 2009, the Community Development Department submitted a grant application to the Department of Energy FY2009 ARRA, EECBG program. The EECBG program provides funding to states, tribes, and local governments, and supports a broad range of activities to reduce fossil fuel emissions; reduce total energy use; and improve energy efficiency in the transportation, building, and other appropriate sectors. "Additional purposes of the EECBG program are to spur economic growth and create and/or retain jobs under the AARA of 2009" (DOE flyer). The funding formula provides a population-based monetary pass through, and the City received the full $914,900 allocation based on that formula.

City of Beaverton staff met with the Sustainability Committee to identify projects for the City's $914,900 allocation. Further meetings among City staff and discussions between department heads led to the following allocation: $250,000 to establish a revolving loan fund to allow Beaverton homeowners to make energy efficiency/weatherization improvements, similar to the CDBG housing rehabilitation programs, $400,000 for street lamp light emitting diodes (LED), and $264,900 for energy efficiency solutions for City-owned buildings based on Energy Trust of Oregon recommendations. All three programs extend into FY 2010-2011 with allocations held in a dedicated contingency account to be used in FY 2010-11.

INFORMATION FOR CONSIDERATION:

On September 28, 2009, the City of Beaverton was notified that the U.S. Department of Energy had approved the City's EECBG grant proposal.

Staff recommends that the corresponding appropriations be established through a transfer resolution and that Council approves the expenditure of $914,900 to support the City's objectives. Oregon Budget Law [ORS 294.326(3)] permits the acceptance of special purpose grants and their associated appropriations through a resolution. Attached is a special purpose grant budget adjustment resolution that establishes the receipt of the special purpose grant revenue, provides the appropriation for the associated expenditures and accounts for those appropriations in a separate Program No. 0452 entitled "Energy Efficiency and Conservation Block Grant Program." The resolution includes placing $343,200 into a dedicated contingency account in Program 0452 to complete the lighting retrofits and the building energy efficiency solutions that are expected to occur in the next fiscal year, FY 2011-12.

RESOLUTION NO. 4000

A RESOLUTION APPROVING THE ACCCEPTANCE OF A SPECIAL PURPOSE GRANT AND THE ASSOCIATED APPROPRIATIONS IN THE GENERAL FUND OF THE CITY DURING THE FY 2009-10 BUDGET YEAR AND APPROVING THE APPROPRIATIONS FOR THE FUND

WHEREAS, the City Council reviews and approves the annual budget; and

WHEREAS, during the year the Council may authorize the acceptance of special purpose grant funds and the associated appropriations through a special purpose grant budget adjustment resolution; and

WHEREAS, a special purpose grant entitled "Energy Efficiency and Conservation Block Grant (EECBG)" was received in the amount of $914,900 and the Council desires to appropriate the grant award to support the stated objectives; now therefore,

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF BEAVERTON, OREGON:

Section 1. The Finance Director is hereby authorized and instructed to adjust the General Fund's budgets to reflect receipt of the special purpose grant revenue and the associated appropriation:

General Fund

Revenues:		
Grants – Federal	001-03-0000-327	$ 914,900
Expenditures:		
Street pedestrian light maintenance	001-13-0452-408	$ 125,000
Housing rehabilitation loan fund	001-13-0452-514	$ 182,500
Building maintenance projects	001-13-0452-384	$ 264,200
Dedicated Contingency	001-13-0452-998	$ 343,200
		$ 914,900

Adopted by Council this 26th day of October, 2009

Approved by the Mayor this 27th day of October, 2009

Ayes: 4 Nays: 0

ATTEST: APPROVED:

SUE NELSON, City Recorder

Denny Doyle, Mayor