



County of Santa Cruz 0281

DEPARTMENT OF PUBLIC WORKS

701 OCEAN STREET, ROOM 410, SANTA CRUZ, CA 95060
(831) 454-2160 FAX (831) 454-2385 TDD (831) 454-2123

THOMAS L. BOLICH
DIRECTOR OF PUBLIC WORKS

AGENDA: NOVEMBER 21, 2000

November 8, 2000

SANTA CRUZ COUNTY BOARD OF SUPERVISORS

701 Ocean Street
Santa Cruz, California 95060

SUBJECT: LIGHT EMITTING DIODE (LED) TRAFFIC SIGNAL UPGRADE
COUNTY SERVICE AREA NO. 9, HIGHWAY SAFETY LIGHTING

Members of the Board:

The Department of Public Works is proposing to proceed with a new project with Republic Electric, our traffic signal maintenance contractor, to provide for additional energy saving improvements for the County's traffic signals. The County may upgrade or modify its traffic signals through our current ongoing contract with Republic Electric on an on-call basis. Our department is proposing to replace the incandescent bulbs used for green lights at the **traffic** signals with green light emitting diodes (**LEDs**). As your Board may recall, our department entered into a similar program for red **LEDs** in 1999 that resulted in a 50 percent energy savings (approximately \$50,000 per year) for the traffic signals. In addition, the County received an energy rebate of approximately \$52,000 for the program. Although the currently proposed green LED program does not have the same amount of energy savings as the red LED program, it is expected that the program will pay for itself in less than two years. The energy costs at the traffic signals will be reduced by approximately 25 percent with the green **LEDs**. In addition, the maintenance cost requirements for the green **LEDs** are significantly lower per year than with incandescent bulbs.

The initial cost of the green LED program is \$135,000, including administrative overhead. A Pacific Gas and Electric rebate of approximately \$72,595 for the program will be returned to the County once the green **LEDs** are installed. The remaining \$62,405 will be returned to the County through the reduction in energy costs and maintenance as discussed above. The Public Works Department proposes to fund the initial cost of the project through the County Service Area (CSA) No. 9 Highway Safety Lighting budget through the reallocation of \$95,000 in

funds from the Graham Hill Road Intelligent Transportation System **Signage** Program and \$40,000 from the Soquel Drive and Cabrillo College Signal Relocation Project. The Graham Hill Road Intelligent Transportation System **Signage** Program is proposed to be fully refunded during the 2001/2002 fiscal year budget to meet design and construction timelines for the Graham Hill Road Reconstruction Project near the Roaring Camp area. The expenditure of CSA No. 9 funds for the Soquel Drive and Cabrillo College Signal Relocation Project will not be necessary since the relocation of the traffic signal at the realigned intersection has been funded through grant funds and other funding sources.

It is therefore recommended that the Board of Supervisors approve the attached AUD 74 transferring funds in the amount of \$135,000 from Structures and Improvements to Department of Public Works Services for the Green LED Traffic Signal Upgrade Project.

Yours truly,

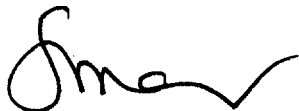


THOMAS L. BOLICH
Director of Public Works

JJP:mg

Attachments

RECOMMENDED FOR APPROVAL:



County Administrative Officer

copy to: Public Works
 Republic Electric

LM

COUNTY OF SANTA CRUZ
REQUEST FOR TRANSFER OR REVISION
OF BUDGET APPROPRIATIONS AND/OR FUNDS

0283

Deptment: PUBLIC WORKS

Date: November 6, 2000

TO: Board of Supervisors / County Administrative Officer / District Board

I herby request your approval of the following transfer of budget appropriations and/or funds in the fiscal year ending June 30, 2001

AUDITORS USE ONLY			
DOCUMENT #	AMOUNT	L/N	T/C HASH
JE 6	27,000,000.00	02	043

BATCH #	
DATE	Keyed By:

	T/C	INDEX	SUBJECT	USER CODE	AMOUNT	ACCOUNT DESCRIPTION *
T R A N S F E R	0,2,1	6,2,2,1,1,5	3,5,9,0		1,3,5,0,0,0,0,0	DPW SERVICES
F R O M	0,2,2	6,2,2,1,1,5	6,6,1,0		1,3,5,0,0,0,0,0	STRUCTURES & IMPROVEMENTS

Explanation: TO **TRANSFER** FUNDS FROM STRUCTURE AND **IMPROVEMENTS** (WA 22329 GRAHAM HILL ROAD \$95,000.00 and WA 22341 **SOQUEL** DRIVE/CABRILLO COLLEGE SIGNAL \$40,000.00 to DPW SERVICES FOR **THE** GREEN LED TRAFFIC SIGNAL UPGRADE PROJECT

Name: CAROL D. KELLY

DIRECTOR OF
Title ADMINISTRATIVE SERVICES

Auditor-Controller's Action: I hereby certify that unencumbered balance(s) is/are available in the appropriations/funds and in the amounts indicated above.

Auditor-Controller, by Linda Chou, Deputy Date 11/8/00

County Administrative Officer's Action: ☒ Recommended to Board ☐ Approved ☐ Not Recommended or Approved

County Administrative Officer [Signature] Date 11/13/00

State of California } As the Clerk of the Board of Supervisors of the County of Santa Cruz, I do hereby certify that the foregoing request for
ss. transfer was approved by said Board of Supervisors as recommended by the County Administrative Officer by an order
County of Santa Cruz } duly entered in the minutes of said Board on

_____, 19____, By _____, Deputy Clerk

JJP:MG

(A-C)* Desc: _____ Item: - Budget Transfer

Distribution: BRD. NAME AGENDA DATE ITEM NO.
White-Board of Supervisors
Yellow-Auditor-Controller Green-County Administrative Officer
Pink-Originating Department Goldenrod-Departmental Control Copy

A-C Review		

COUNTY OF SANTA CRUZ
REQUEST FOR APPROVAL OF AGREEMENT

TO: Board of Supervisors
County Administrative Officer
County Counsel
Auditor-Controller

FROM: PUBLIC WORKS DEPARTMENT 0284 (Dept.)
(Signature) (1157-00 t e)

The Board of Supervisors is hereby requested to approve the attached agreement and authorize the execution of the same.

1. Said agreement is between the COUNTY OF SANTA CRUZ (Agency)
REPUBLIC ELECTRIC
and 7120 REDWOOD BOULEVARD, NOVATO, CA 94945-4114 (Name & Address)
2. The agreement will provide FOR THE INSTALLATION OF GREEN LED TRAFFIC SIGNAL UNITS IN ALL VEHICULAR AND PEDESTRIAN SIGNALS FOR ALL COUNTY TRAFFIC SIGNALS.
3. The agreement is needed BECAUSE THE WORK CAN BE HANDLED MOST EXPEDITIOUSLY BY CONTRACT.
4. Period of the agreement is from BOARD APPROVAL to JUNE 30, 2001
5. Anticipated cost is \$ INCREASE \$125,225 (Fixed amount; Monthly rate Not to exceed)
6. Remarks: CONTRACT \$205,475; 7% OVERHEAD \$14,384; TOTAL \$219,859
7. Appropriations are budgeted in 622115! 22306! 3665! (Index#) 3590 (Subobject)

FDX 11/5 NOTE: IF APPROPRIATIONS ARE INSUFFICIENT, ATTACH COMPLETED FORM AUD-74

Appropriations are available and have been encumbered. Contract No. C001679-01 Date 11/8/00
are not will be

GARY A. KNUTSON, Auditor - Controller
BY Linda Chou Deputy.

Proposal reviewed and approved. It is recommended that the Board of Supervisors approve the agreement and authorize the DIRECTOR OF PUBLIC WORKS to execute the same on behalf of the PUBLIC WORKS DEPARTMENT (Agency).

Remarks: DM (Analyst)

County Administrative Officer
By (Signature) Date 11/13/00

Agreement approved as to form. Date _____

JJP:ng

Distribut on:

Bd. of Supv. - White
Auditor-Controller. Blue
Co. Admin. Officer. Conroy
Auditor-Controller. Pink
Originating Dept. Goldenrod

To Orig. Dept. if rejected.

State of California)
County of Santa Cruz) ss

I _____ ex-officio Clerk of the Board of Supervisors of the County of Santa Cruz, State of California, do hereby certify that the foregoing request for approval of agreement was approved by said Board of Supervisors as recommended by the County Administrative Officer by an order duly entered in the minutes of said Board on _____

County Administrative Officer
BY _____ Deputy Clerk