

RESOLUTION NO. LXIX

A RESOLUTION DETERMINING THE NEED FOR USE OF FUNDS FROM THE LIGHT DEPARTMENT BUILDING AND EXPANSION FUND AND LIGHT DEPARTMENT DISASTER FUND; AND AUTHORIZING THE TRANSFER AND EXPENDITURE OF SUCH FUNDS.

WHEREAS, the City of Canby is experiencing a rapidly increasing growth in population which promises to continue as evidenced by a recently planned condominium development in the City limits; and

WHEREAS, City Councilman Werner Dinteman as Council-appointed Commissioner of the City Light Department has conducted and completed a comprehensive and thorough study of the problems and capacity of the City's Light Department and has filed his written report with the Council which consists of the basic report and Annexes A through G, a copy of which is attached hereto entitled "SUBJECT: Emergency or imminent emergency problems in Light Department"; and

WHEREAS, the Canby City Council has studied the report on the Light Department and is gravely concerned with the problems which are covered by the report and which are apparent; and the Council recognizes the report as a true and realistic appraisal of the actual problems in the City Light Department; and

WHEREAS, a prior Council of the City wisely considered and planned for such eventualities and created by Ordinance No. 421 adopted January 5, 1959, a LIGHT DEPARTMENT DISASTER FUND and a LIGHT DEPARTMENT BUILDING AND EXPANSION FUND. As of the last quarter, i.e., September 30, 1967, the balance on hand in the Light Department Disaster Fund was \$36,052.39, and the balance on hand in the Light Department Building and Expansion Fund was \$14,263.04; and

WHEREAS, the costs of the emergency work and also of the expansion program as covered in the report of Councilman Dinteman have been substantiated by a cost study and estimate of the City Superintendent and all things having been considered, now, therefore,

in consideration of the premises,

IT IS HEREBY RESOLVED by the Canby City Council in special session convened that:

1. The study and report of City Councilman Werner Dinteman on the City Light Department facilities is approved and adopted;

2. There is an immediate need for Fifteen Thousand Dollars (\$15,000.00) from the LIGHT DEPARTMENT BUILDING AND EXPANSION FUND for planning and constructing a new primary feeder line with a minimum capacity of 15 KVA to serve the area north and south of Wait Avenue;

3. There is an immediate need for Sixteen Thousand Five Hundred Dollars (\$16,500.00) from the LIGHT DEPARTMENT DISASTER FUND for reconstructing, repairing and remodeling the Light Department facilities along Amrine Road from Wait Avenue to Territorial Road; along N. Locust Street from N. E. 4th Avenue to N. E. Wait Avenue; and along N. Ferry Road from the triangle park to N. W. Wait Avenue; and

4. The City Recorder and City Treasurer shall and they are hereby directed to transfer to the LIGHT DEPARTMENT FUND the sum of Fifteen Thousand Dollars (\$15,000.00) from the Light Department Building and Expansion Fund and the sum of Sixteen Thousand Five Hundred Dollars (\$16,500.00) from the Light Department Disaster Fund, to be used for the immediate expansion, improvement and repair of the City's Light Department facilities.

5. The City Superintendent is hereby directed to proceed immediately by City work force with the expansion, improvement and repair of the City's Light Department facilities according to the report and plans for such project which are hereby approved.

Adopted by the Canby City Council at a special meeting thereof this 9th day of November, 1967.

ATTEST:


J. R. RICHARDSON - City Recorder


LAWRENCE J. HOUSEN - Mayor

SUBJECT: Emergency or imminent emergency problems in Light Department.

TO: City Council

1. Problem areas:

(The system is now inefficient and is steadily getting more obsolescent, which causes the following losses and/or unnecessary expenses:)

a. Feeder Line on KBR - Ferry Road - Wait Ave is inefficient patch work, which requires repeated repair and emergency activities. It is actually of insufficient capacity to adequately supply Amrine line, when the latter is updated.

b. Lines heavily overloaded or dangerous due to proximity to or running actually through trees, etc., are:

(1) Amrine Road line from Wait to Territorial

(2) N. Locust from NE 4th to Wait

(3) Ferry Road from Triangle to Wait

c. Substandard Items a and b above result in disproportionate emergency repair activity and unsatisfactory ratings from State Safety Sources because of:

(See Annex A)

(1) Overloading, requiring repeated fuze or circuit breaker replacement or resetting (usually after regular duty hours, causing excessive expenditure of funds for overtime.)

(2) Lines near or through trees are a distinct hazard to life and property.

(3) Overloaded lines have a tendency to sag, which reduces road clearance below the acceptable minimum, also cause excessive current loss.

(4) Current loss incident to normal transmission is greatly increased because the lines, connectors, transformers etc., are HOT, which in a physical indication that these lines are more akin to being a Resistor instead of a Conductor, and the heat generated is where some of the current loss is experienced.

2. Suggested Corrective Action:

a. That a new Primary Feeder be established with a minimum capacity of 15 KVA to serve the area North and South of Wait, starting from the Barlow Sub-Station along KBR to corner of Pendleton, thence North to proposed intersection of NW Wait Ave., thence on the North side of Wait to Neff. (North Side of Wait places the line out of Trees and gives street lights a better luminance radius.)

b. That Amrine Road line be rebuilt and installed Sub-surface. This line should be of maximum capacity consistent with the 15 KV feeder recommended for Wait.

c. That N. Locust line be rebuilt and installed sub-surface on the West

side of the street to clear street lights of inhibiting influence of trees on East side of street.

d. That the portion of current feeder KBR-Ferry-Wait be removed and line on Ferry to relocated underground along West side of street to get out of tree line.

3. Costs:

a. Primary Feeder (see Annex B)	\$ <u>14,562.46</u>
b. Amrine Road (see Annex C)	\$ <u>6,851.80</u>
c. Locust (see Annex D)	\$ <u>5,152.42</u>
d. Ferry Road (see Annex E)	\$ <u>4,664.70</u>
Total	<u>31,231.38</u>

4 Ways and Means: (The urgent need for noted corrective action is in the nature of an emergency and comes under the provisions of Ordinance 421, Section 2 B a, which permits the use of the Emergency Light Fund for these very reasons)

a. Billing to Emergency Fund costs incurred to accomplish outlined emergency repair, plus such costs as might have been incurred due to recent storm outage.

b. Use of the Light Department Expansion fund to cover cost of New Feeder Line construction.

c. Initiate and complete a Joint Pole Agreement with Telephone Company to extract some revenue along those lines and reduce cost of ditching for underground installation by shared cost.

d. Encourage more use of electricity by offering an inducement for "All Electric" housing.

e. Work out an agreement whereby cost of expansion is absorbed by developer or sub-divider along the lines now in effect for water, sewer, streets, etc.

f. Place a Service Charge of 5 % on each light bill for a temporary period or until a new contract with BPA will permit bringing income into line with constantly rising costs

g. Permit, and in fact encourage donation of street lights by citizens to help out street lighting program without excessive drain on limited department resources (See Annex F)

h. Negotiate a new Contract with BPA.

5. Result of Proposed Changes or Modernization:

- a. Reduce excessive current loss now experienced (up to 25%)
- b. Reduce emergency service calls with concomitant savings in overtime budget requirements,
- c. Eliminate hazard to life and property and suit possibility in affected areas,
- d. Remove many of the glaring deficiencies noted by State Safety Engineer,

and including the cost of these corrective actions in the modernization program. 2850.00

e. A credit of \$ 2,693.90 should accrue to the Light Department by return to stock of items noted in Annex G., which will reduce the cost of acquisition for replacement of unserviceable items of like nature, normally required and presently included in this years' budget.

f. Reduced incidence of emergency calls; fuze, transformer and other assembly replacement; reduced current loss for the new lines etc., should bring the budget into balance, whereby cost of above noted program will be amortized over a period of from 4 to 5 years.

WERNER DINTEMAN
WERNER DINTEMAN
Councilman
Power and Light Department

Enclos: Annexes A through G

Less "F"

1. 100.00
 2. 100.00
 3. 100.00
 4. 100.00
 5. 100.00

100	100.00	100.00
100	100.00	100.00
100	100.00	100.00
100	100.00	100.00
100	100.00	100.00

10,512.40
 2,250.00
 12,762.40

AMRINE ROAD FEEDER LINE

UNDERGROUND CONSTRUCTION

October 14, 1966

Quantity	Kind	Type - Size etc.	Price each or unit	Total
2400 ft.	Trench	4" dp.	.20	480.00
2600 ft.	Prim. cable	15 K.V.	400.00 AA'	1,040.00
5200 ft.	Sec. cable	3/10 RR Use	240.00 AA'	1,248.00
4	Transformers	{50 K.V.A. Luma-Tran w/street Light. Inc. transfr. st.light, switch gear, fuseing, conn- ectors, etc.)	420.00 to streets	2,884.00
4	Pot hsads	15 K.V.	7.50 ea.	30.00
4	Pedistalls	U.G.-	36.00 ea.	144.00
200 '	Conduit	2"	.62 ft.	124.00
4	Conduit. Ls.	2"	3.00	12.00
32	Sleeves	#2 - 4	.60 ea.	19.20
8	Rolls tape	1" sch. 33	.80	6.40
				<u>\$ 5,987.60</u>

STREET LIGHTS

1800 ft.	Cable	#6	.12	216.00		
4	Alum. poles	16 ft.	54.00	216.00		
4	Luminaives	400 watt	96.80	387.20		
3 yds.	Concrete		15.00	45.00		
				<u>\$ 864.20</u>		
					<u>TOTALS</u>	
				Line	\$ 5,987.60	
				St.Lights	864.20	
					<u>\$ 6,851.80</u>	

LC/vb

Estimate - N. Locust - 4500 W. 11th AVE.
Electric Distribution

Date: 10-12-62

Item	Description	Quantity	Unit	Cost
1	15KV Primary Cable USE	1450'	461 ⁰⁰ /M	66845 ⁰⁰
2	#2 USE Copper Secdy. Cable 600V	3400'	380 ⁰⁰ /M	1292 ⁰⁰
3	Sleeves - splicing	40	75 ⁰⁰ /ea	300 ⁰⁰
4	Terminators 15KV	6	38 ⁰⁰ /ea	228 ⁰⁰
5	Transformers 50 KVA.	3	650 ⁰⁰ /ea	1950 ⁰⁰
6	Connectors All types & size	60	25 ⁰⁰ /ea	150 ⁰⁰
7	Tape and 3M Kits	8	8 ⁰⁰ /ea	64 ⁰⁰
8	Conduit 2" Rigid	400'	.79	316 ⁰⁰
9	Concrete Trf. pads	2 cy	15 ⁰⁰ /cy	30 ⁰⁰
10	Equipment rental	12 hrs	12 ⁰⁰	144 ⁰⁰
				5,142 45
	SALVAGE			
1	Triplex - Service cable	600'	.28	168 ⁰⁰
2	Copper wire	640#	.32	204 ⁸⁰
3	Transformers 25KVA.	3	50% 156 ⁰⁰ /ea	468 ⁰⁰
4	Poles 45'	2	50% 30 ³⁵	60 76
5	Cutouts 100 A	2	25% 63 ⁵⁰ /ea	12 50
6	Missl. Insulators & Pole Hdw.	L.S.	150 ⁰⁰	150 00
				1,064 06

ANNEX D

Ferry Rd. Elec. Distribution
Estimate - Reconstruct K.B. rd. to Whit Ave.

Date: 10-12-67

ITEM	DESCRIPTION	Quantity	Unit	Cost
1.	15 K.V. Primary U.S.E. Cable	1200'	461 ¹² M'	553.28
2.	#2 U.S.E. Copr. Secondary cable 600v	2800'	380 ⁰⁰ M'	1,064.00
3.	Splicing Sleeves various types	36	72 ⁰⁰ ea.	270.00
4.	Terminators 15 K.V.	6	38 ⁰⁰ ea.	228.00
5.	Transformers 50 K.V.A. W/L.B.	3	650 ⁰⁰	1,950.00
6.	Connectors - All - types.	50	25 ⁰⁰	125.00
7.	Tape & 3M Kits	6	80 ⁰⁰ ea.	48.00
8.	Conduit 2" rigid	350'	.70	276.50
9.	Concrete	2 c.y.	15 ⁰⁰	30.00
10.	Equipment rental	10 hrs.	12 ⁰⁰	120.00
<u>Total</u>				<u>\$4,664.78</u>
<u>SALVAGE</u>				
1.	Copper wire	512 ⁰⁰	.32	163.84
2.	#2 Triplex Service cable	400'	.28	112.00
3.	Transformers 37.5 K.V.A.	2	50 ⁰⁰ = 175 ⁰⁰	350.00
4.	Poles - 40'	5	25 ⁰⁰ = 125 ⁰⁰	67.50
5.	Cutouts 100 A	6	25 ⁰⁰ = 60 ⁰⁰	37.50
6.	Missl. Insulators & Pole Hardware	L.S. Value	\$100.00	100.00
				<u>\$830.84</u>
ANNEX E				

Annex G data

The following service electrical equipment and/or material is expected to be recovered and placed back into stock or sold for scrap.

a. Amrine Project:

500 lb Copper Wire	.32	160.00
4 40' poles (25%)	13.50	54.00
2 25 KVA Transformers (50%)	156.00	465.00
Misc pole Hardware		<u>100.00</u>

Sub Total: 779.00

b. Lusk Project:

400' Irirlex Service Cable	.28	168.00
500 lb Copper Wire	.32	204.80
3 25 KVA transformers (25% have remaining)	156.00	465.00
2 40' poles (25%)	30.38	60.76
2 25 Amp Outlets (25%)	6.25	12.50
Misc hardware, insulators, etc.,		<u>100.00</u>

Sub Total 1,644.06

c. Fairview Project:

400' Irirlex Service Cable	.28	112.00
500 lb Copper Wire	.32	163.84
2 25 KVA transformers (25%)	175.00	350.00
5 40' poles (25%)	13.50	67.50
2 25 Amp Outlets (25%)	6.25	31.25
Misc Insulators, pole caps etc		<u>100.00</u>

Sub Total 830.84

Total salvage returned to stock: \$ 2673.90

Notes: there are some other items that will be salvaged but since they will be re-used in the same area, they are neither listed above nor are they costed in the estimates, Annexes BCDE.