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Mr. Tim Himmer
City of Ramsey
7550 Sunwood Dr NW
Ramsey MN 55303

June 11, 2012

Dear Tim,

I have prepared the following proposal for the removal and reinstallation of streetlights in conjunction with the Sunwood Blvd realignment per your request. Connexus Energy will install, retain ownership, and will provide ongoing maintenance of the lights under our monthly Energy and Maintenance rate. The installation costs shown below are a preliminary estimate prior to the final design by Connexus Energy's engineering department.

Please see the attached photometric layout of the design I would recommend for the Sunwood realignment using LED's. This design is based on using 55 Watt LED's instead of the current 100 Watt and 70 Watt Metal halide fixtures.

The following are preliminary estimates prior to final design

- Reinstall the same fixtures on new Sunwood, supplementing as needed.
\$103,932.00 Includes moving 10 light fixtures, 9 concrete bases, and supplementing 14 additional fixtures. Also includes duplex receptacles at 33 tree locations and power to the center of the roundabout.
- Reinstall the poles with LED components, supplementing as needed.
\$111,732.00 Includes moving 10 light fixtures, 9 concrete bases, and supplementing 14 additional LED fixtures and upgrading the lights to be moved to LED. Also includes duplex receptacles at 33 tree locations and power to the center of the roundabout.
- Reinstall the poles with LED components, supplementing as needed and installing LED components on all the existing Sunwood poles.
The cost to upgrade all existing Sunwood Metal halide fixtures would be in the \$700 to \$900 range per fixture.

The monthly Energy and Maintenance rate for the 55 watt LED fixtures is \$7.96 per light per month. The lights will be installed to utility specifications, will be un-metered, and will operate on a dusk-to-dawn schedule. The above installation costs are based upon our best practices. If job site conditions beyond our control prevent normal installation procedures or if winter construction is required, additional charges may be applied.

Please indicate your choice the options above and return a signed copy via, USPS, Fax 763-506-9541, or e-mail: leoo@connexusenergy.com

I hope that this information is satisfactory for you. Do not hesitate to contact me if you have any questions.

Sincerely,

Leo Offerman

Digitally signed by Leo Offerman
DN: cn=Leo Offerman, o=Connexus Energy,
ou=CEM,
email=leoo@connexusenergy.com, c=US
Date: 2012.06.11 11:20:30 -05'00'

Key Account Representative

Accepted by: _____

Date: _____

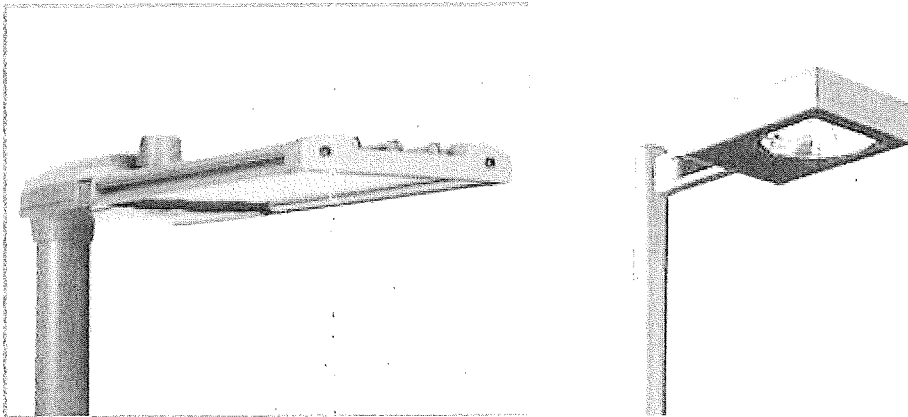
Hakanson Anderson Engineering

From: Leo Offerman <Leo.Offerman@connexusenergy.com>
Sent: Tuesday, July 17, 2012 1:54 PM
To: Hakanson Anderson Engineering
Subject: RE: Sunwood Lights - Ramsey

Below are photos of each light:

LED Roadview

Current Gaskins Metal Halide



The cost to retrofit existing Gaskin's fixtures to Roadview LED's would be \$700 per light. Although the cost of LED's has come down considerably there will need to be a \$125 arm/attachment in order to convert from from the existing horizontal arm to the LED. \$700 includes all material and labor for the conversion.

From: Hakanson Anderson Engineering [<mailto:haengineering@ci.ramsey.mn.us>]
Sent: Tuesday, July 17, 2012 1:22 PM
To: Leo Offerman
Subject: Sunwood Lights - Ramsey

Mr. Offerman,

Shane and I are sharing the Interim City Engineering position in Ramsey for approx. 3 months. My discussions with Shane has led us to a few questions so I can inform the council of preferred action to take on the purchase of street lights for Sunwood.

- 1) Can you provide me with pictures of each of the fixtures the LED and the current Metal Halide so the council can see the difference?
- 2) What is the estimated cost to retro fit each existing light to LED assuming a 128 lights would need to be changed?

Thanks

Ron Wagner
Ramsey Interim City Engineer

	Metal Halide	LED	Construction Cost	Electric Cost/Month	Construction Cost Diff.	Electric Cost/Month Diff.	Months to Payback	Years
Option 1	156	0	\$103,932.00	\$1,522.56	\$0.00	\$0.00	0	0
Option 2	128	28	\$111,732.00	\$1,472.16	\$7,800.00	\$50.40	154.8	12.9
Option 3	0	156	\$201,332.00	\$1,241.76	\$97,400.00	\$280.80	346.9	28.9
Based on todays dollar value for ease of calculation								
Based electrical cost and maintenance cost of \$7.96 per month for LED lighting and \$9.76 for Metal Halide								