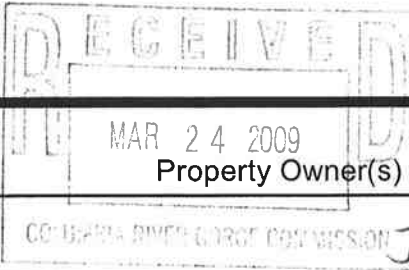


Columbia River Gorge Commission

#1 Town & Country Square • PO Box 730 • White Salmon WA 98672 • 509-493-3323

C09-0005-K-G-11  
A

Land Use Application



Applicant(s) David Berger

MAR 24 2009

Property Owner(s) David Berger

Julie Larson

COLUMBIA RIVER GORGE COMMISSION

Julie Larson

Mailing Address PO Box 373

Mailing Address

Lyle, WA 98635

Phone H 509-365-3103

Phone H

W/cell

W/cell

Location of property: Parcel Lot 4 SP-86-10 SW 4 SW 4 35/3N/12E W.M.

Township Range

Street Address 728 7th Street

Section & Qtr Section

County Klickitat

Tax Lot No(s) 4

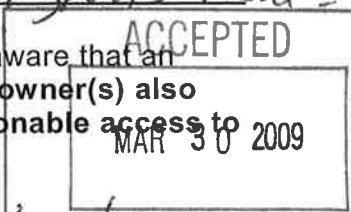
Parcel Size (acres) 4.94

Existing development and use of parcel The parcel contains our residence, garden, and oak/pine wood and grassland.

Proposed use and/or development: Photovoltaic (PV) electric panels to provide part of our residential electric energy use. The panels will be free standing & not attached to the parcels to the north, east, and west buildings.

Use of Adjacent Parcels: Consist of oak/pine wood and grass land that is occasionally used for cattle grazing - The parcels to the south contain 3 residences in Lyle town, and the Lyle High School sports field.

Signature of the property owner(s) indicates that the property owner(s) is/are aware that an application is being made on the subject property. Signature of the property owner(s) also authorizes the Gorge Commission or the Commission's designee(s) reasonable access to the site in order to evaluate the application.



Applicant(s) signature David Berger Julie Larson

date 3/23/09

COLUMBIA RIVER GORGE COMMISSION

Property owner(s) signature David Berger Julie Larson

date 3/23/09

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## **Project Description**

This project is designed to produce most of our present household electrical energy with the lowest possible visual impact on the National Scenic Area. Our annual average electrical energy use since 2004 is 7512 KWH (data provided by KPUD). The PV panels for this project will provide a maximum of 7200 KWH/year. These panels will tie into the grid and replace existing grid power with much cleaner solar power, and therefore reduce visual air quality impacts resulting from emissions from fossil fuel burning energy sources in the gorge. In addition, after discussions with WDFW biologist Bill Weiler, PV panels were chosen because they are very benign with respect to their impact on wildlife, especially birds and bats. Wind power would have been less costly for this application, but is potentially more harmful to avian life.

With respect to visibility, discussions with Jennifer Kaden, have led us to site the solar panels in a shielded and less visible area, despite some energy loss due to shading. Professional Engineer John Grim (509-365-5421) has also assisted in site selection, as well as system design. The panels will be dark, and placed alongside our driveway, which is also dark, and is in close proximity to existing power lines at GPS location N45 degrees 41' 46.4", W121 degrees 16' 42.5". When the site is viewed from I-84 near Mayer Park, the panels will be dwarfed by the very large and highly visible Lyle High School main building. The panels have an anti-reflective glass coating, which is part of their design, in order to insure maximum power output and energy production. They will be shielded by oak trees from key viewing areas (Rowena Plateau and the Nature Conservancy View point, and Highway 84). They will not be visible from highway 14. The panel array will have a surface area of no more than 460 square feet, and be ground mounted. There will be a small trench dug alongside our driveway in on order to relay the power produced at the panels to our existing home electrical service box via a wire. Once the connection is made at our service box, the trench will be refilled with the same soil, and returned to its former state. No trees or other existing vegetation will be disturbed.

Please be advised that precise panel models, and mounts are not specified because the PV panel market is highly volatile, and equipment available for purchase 72 days into the future is uncertain. Hence, we specified both maximum KWH/year production, and maximum solar array surface area.

### Supplemental Info to follow:

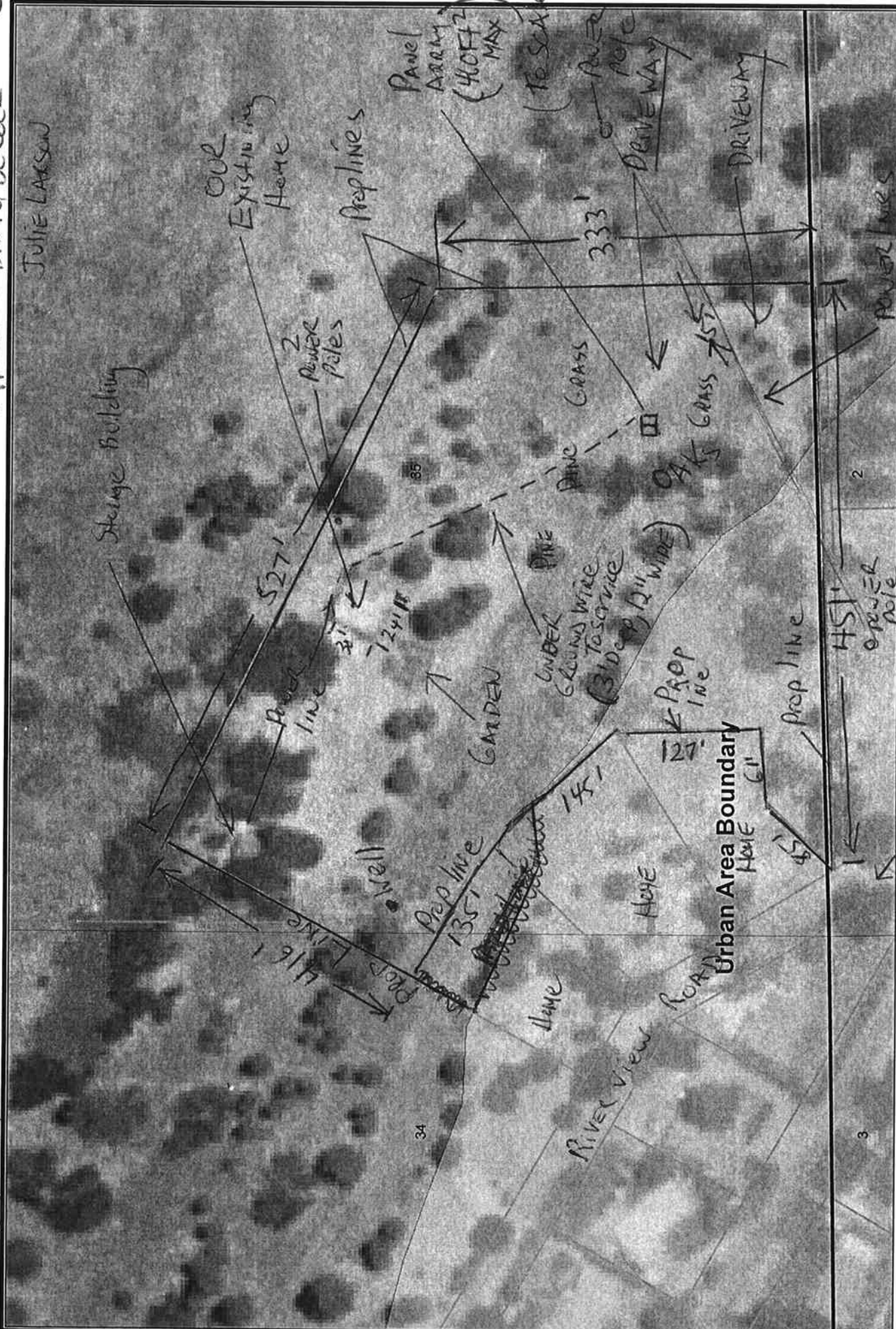
1. Photo from Mayer Park adjacent to I-84
2. Photo from Rowena Plateau lookout
3. Photo from PV panel site showing oak trees shielding Rowena KVA
4. View of oak trees shielding solar panel site
5. Site Plan View utilizing Gorge Commission Photo (Provided by Jennifer Kaden)
6. Preliminary Elevation Drawing

Site Plan

Applicant: David Berger

Julie Lakson

CO9-0005-K-G-11



Disclaimer: The Columbia River Gorge National Scenic Area/ Columbia River Gorge Commission data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness or completeness. This information is intended for general planning purposes and is not intended for site specific planning or analysis. Original data was compiled from various sources and that all information should be verified with those sources. Spatial information may not meet National Map Accuracy Standards. The requestor acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, correction and update.



Created by: Jennifer Kaden  
Date: 02.17.2009

Columbia River Gorge Commission  
1 inch = 110 feet



7th Street

Urban Area Boundary Home 61'

River view ROAD

GARDEN

OUR Existing Home

Storage Building

Panel Array (HOFFZ MAY) (TO SCALE)

DRIVEWAY

DRIVEWAY

POWER POLE

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34

85

2

3

5271

1241B

1351

151

271

1451

333'

333'

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OAK GRASS

PINE GRASS

2 POWER PILES

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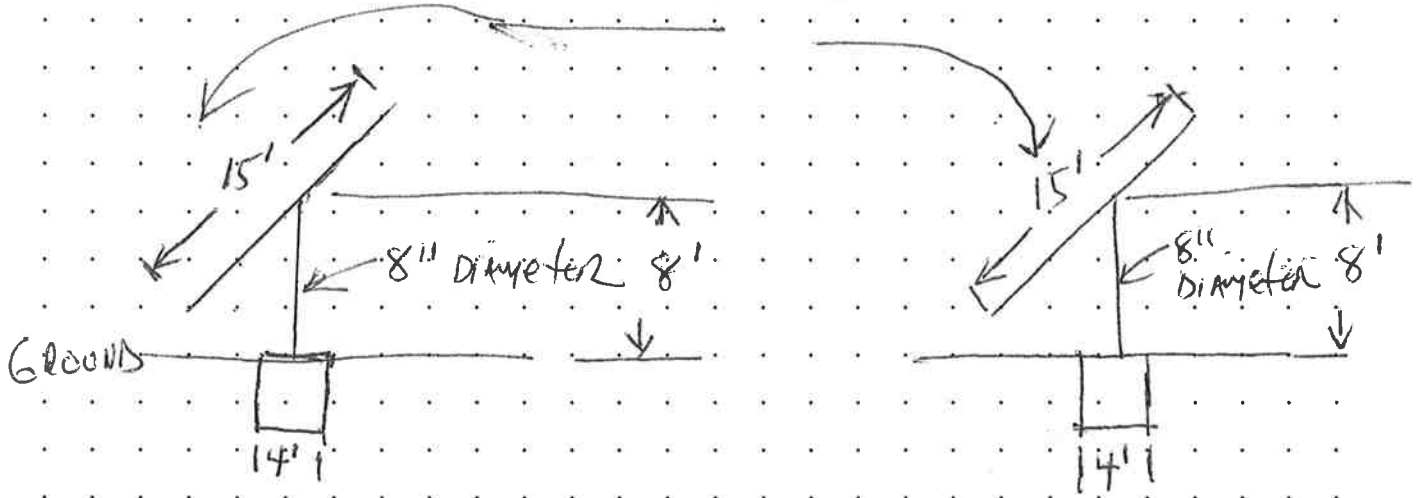
OAK GRASS

PINE GRASS

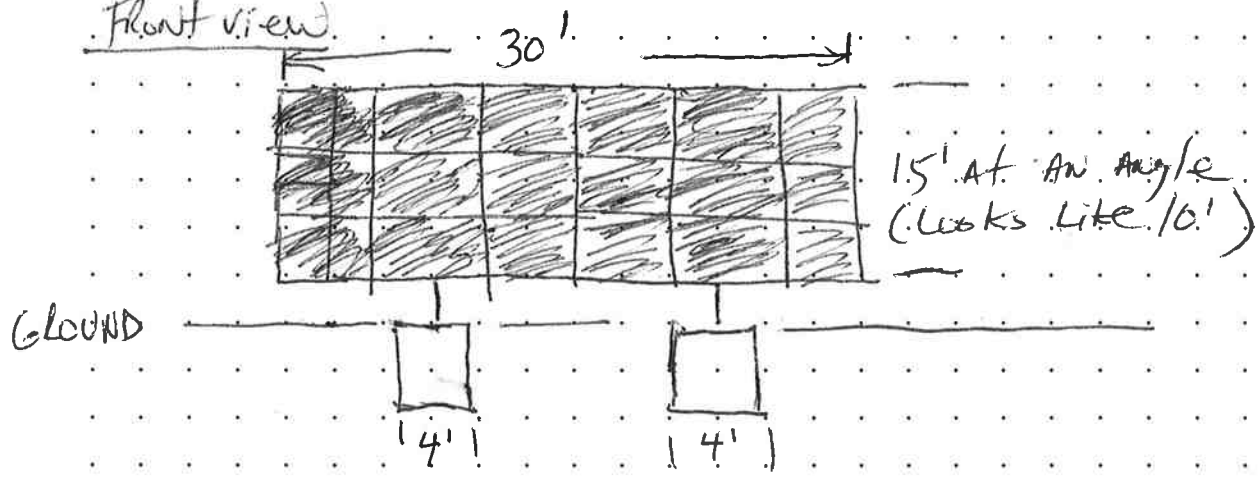
2 POWER PILES

UNDER PINE GRASS WIRE (3\"/>

SIDE VIEW . . . . . 2 ARRAYS (Solar Panels)  
= 230 FT<sup>2</sup> EACH



Front view



Note - This drawing is preliminary because the panels and mounts can not be bought until approval is given (see Project Description)

Each grid equals 50' x 50' at a scale of 1" = 200'

1" = 10'