# Schnebly Coulee Solar Energy Project <br> Decommissioning Plan 

Prepared for<br>Kittitas County

Project Owner<br>Schnebly Coulee Solar Energy LLC<br>1 South Wacker Drive Suite 1800<br>Chicago, IL 60606

April 4, 2024

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## 1. Introduction

Schnebly Coulee Solar Energy LLC (the Project Owner) is proposing to construct, own and operate an approximately 90 -megawatt (MW) capacity photovoltaic (PV) solar power production facility (SPPF; the Project) on approximately 1,314 acres of privately owned land, near the town of Kittitas, Washington.

## 2. Project Background

The Project is located in Kittitas County, Washington. It is situated east of and adjacent to Stevens Road, 0.5 miles north of Interstate 90 and 0.5 miles South of Vantage Highway. The solar farm will consist of approximately 210,600 solar modules, associated solar module racking system and foundations, 24 solar inverters, 24 medium voltage step-up transformers, and associated electrical equipment and materials necessary to connect to the Puget Sound Energy's Poison Springs Switchyard.

## 3. Existing Site Conditions

The overall topography is generally rolling and covered by sagebrush. The land does not have any existing improvements or water rights and is currently used as a seasonal grazing area. The Project will be accessed via Stevens Road.

## 4. Decommissioning Requirements

The Project Owner must plan for the decommissioning of the Project and provide a decommissioning bond or other financial mechanism equating to $125 \%$ of the engineer's estimated cost in accordance with Kittitas County Code 17.61C. 110 as it relates to abandonment and decommissioning of solar power production facilities. The plan must describe how the site will be restored to a useful, non-hazardous condition and at what cost. See Exhibit A for the full reference.

## 5. Description of Work to Install Project

Clearing and Grading: Site preparation will occur in a manner to minimize grading, vegetation removal, and topsoil removal.

Solar Equipment: Rock anchor foundations will be used for the solar racking system. Steel pile foundations will be used for the solar inverters and medium voltage step-up transformers.

Roads and Fencing: Approximately 33,000 feet of $20^{\prime}$ wide internal and access roads will be installed to service the Project and have an aggregate base over compacted native soils. Security fencing and access gates will be installed around the perimeter and the Project substation totaling approximately 42,500 linear feet.

Buildings and Enclosures: The Project will have a 675 -square-foot control house in the Project substation yard. The control house is delivered to the site already built and set on a concrete foundation.

SCADA and Communications Equipment Enclosure: Supervisory Control and Data Acquisition (SCADA) refers to the entire communication and control components. The SCADA equipment for the Project will be mounted in the control house. The SCADA system includes an internet router, server(s), a firewall, battery backup, and other hardware to remotely monitor the Project.

Cable Trenching: Trenching requirements for the electrical cables and telecommunication lines would consist of a trench up to approximately three feet deep and one to four feet wide. The trenches would be filled with base material above and below the conductors and communications lines to ensure adequate thermal conductivity and electrical insulating characteristics. The topsoil from trench excavation would be set aside before the trench is backfilled and would ultimately comprise the uppermost layer of the trench. Excessive material from the foundation and trench excavations would be used for site leveling.

Project Substation and Transmission Line: The electrical cables will feed to the Project Substation from which one 230 kV transmission line will go to the Puget Sound Energy Poison Springs Switchyard, roughly 3 miles east of the Project. The total length of the transmission line will be approximately 3.6 miles long.

Foundations: The solar modules will be installed on single-axis trackers attached to racking structures. The foundations for the racking structures will either be rock anchors or ballast foundations.

Project Life: The Project equipment has an estimated useful life of at least 35 years with an opportunity for extension depending on equipment replacements or refurbishments.

## 6. Decommissioning Process

The Project will consist of various materials including steel, aluminum, copper, concrete, solar modules, transformer insulating oils, and plastics. When the Project reaches the end of its operational life, the components will be disassembled, and component materials will be recycled (including sold for scrap) or taken to a landfill. Decommissioning will be accomplished using conventional construction equipment with the objective of maximizing the recycling of materials and minimizing the amount of waste to be disposed. Demolition debris will be placed in temporary onsite, secured, storage areas pending final transportation and disposal or recycling according to the procedures listed below.

The first step in the decommissioning process is the assessment of existing site conditions and preparation of the facility site for decommissioning. Internal service roads, fencing, and electrical power will remain in place for use by the decommissioning workers until no longer needed. All necessary permits, such as for land use or road access, will be obtained prior to conducting any decommissioning work.

The decommissioning of the Project will then proceed in reverse order of the construction and commissioning of the solar farm. The Project will be disconnected from the transmission system. Solar modules will be disconnected, collected, packed, and sent to the original manufacturer or a local recycler. Site equipment will be disconnected from all above ground and underground cables. All above ground cables will be removed and transported off-site to an approved recycling facility or landfill. Solar module steel racking system will be removed and transported off-site to a recycling facility. Electrical and electronic devices, including medium voltage step-up transformers and solar inverters will be removed and transported off-site to a recycling facility. Disconnect switches and the recloser will be removed and sold for reuse, will be recycled, or will be sent to a landfill. Concrete foundations will be removed and then transported off-site and recycled, recycled by portable recycling equipment brought on-site, or taken to a landfill. The last step, treatment of internal service roads, fences, gates, and the transmission line will depend on whether there is a planned next use of the land. If there is a need for these improvements, they will be left in place and maintained. If there is not, they will be removed, and the land will be restored. The site will be graded as close as is reasonably possible to its original contours or contours advantageous
for agricultural use. The land will be revegetated with plants and/or plant seed mix consistent with the Project's Vegetation and Soil Management Plan approved by Kittitas County. This work will be completed within six months of removal of all equipment.

## 7. Decommissioning Cost

The decommissioning cost estimate including labor, materials, and equipment and disposal costs is $\$ 4,150,165.60$; a cost breakdown is shown in Exhibit B. This estimate has been prepared by Tetra Tech, an independent third party. Upon decommissioning, many of the materials and components may be able to be sold for reuse. The Project Owner will review this estimate on a five-year basis, unless changes are made that would materially increase the costs, in which case the estimate will be revised within 120 days of the change.

The Project Owner will ensure there are adequate funds for decommissioning by putting in place cash held in escrow, or a surety bond prior to starting construction. The value of the financial mechanism shall be based on the then current cost estimate. The financial mechanism shall remain in full force and effect until the decommissioning process is complete. The Project Owner shall annually update Kittitas County on the status of the financial mechanism, or upon request.

## 8. Use of Decommissioning Funds

Kittitas County will be entitled to draw on the decommissioning funds and decommission the Project if the Project Owner abandons the Project. The Project will be considered abandoned if it has not generated electricity that is sold for commercial use within eighteen (18) months.

Once Kittitas County has determined the Project has been abandoned, it shall issue a Notice of Abandonment to the Project owner/operator. Within 30 days from the Notice of receipt date, the owner/operator has the right to respond to the Notice of Abandonment and provide sufficient information to demonstrate that the facility has not been abandoned. If the owner/operator fails to respond to the Notice of Abandonment and the County has determined that the facility has been abandoned or discontinued, the Owner/operator of the facility shall remove the SPPF within three months of receipt of the Notice of Abandonment. If the owner/operator fails to physically remove the facility, Kittitas County shall have the authority to physically remove the facility and draw from the decommissioning funds to recover costs associated with that removal.

EXHIBIT A. Kittitas County Code

Kittitas County Code (KCC) Chapter 17.61C. 110 Abandonment and Decomissioning:

1. Abandonment Requirements:
a. SPPFs which have not generated electricity that is sold for commercial use within eighteen (18) months shall be removed at the owner/operator's expense. Owners/operators may be required to provide proof of electricity generation as requested by Kittitas County.
b. The Planning Official, Building Official, Code Enforcement Officer or designee may issue a Notice of Abandonment to the owner/operator of the facility. The owner/operator shall have the right to respond to the Notice of Abandonment within 30 days from the Notice receipt date. The Building Official, Code Enforcement Officer or designee may withdraw the Notice of Abandonment and notify the owner/operator that the Notice has been withdrawn if the owner/operator provides sufficient information to demonstrate that the facility has not been abandoned which may include documentation or certification by the owner/operator of the electrical grid that the SPPF has met the requirement of 17.61C. 090 (1)(a).
c. If the owner/operator fails to respond to the Notice of Abandonment or if after review by the Planning Official, Building Official, Code Enforcement Officer or designee it is determined that the facility has been abandoned or discontinued, the owner/operator of the facility shall remove the SPPF at the owner/operator's sole expense within 3-months of receipt of the Notice of Abandonment. If the owner/operator fails to physically remove the facility after the Notice of Abandonment procedure, the County shall have the authority to enter the subject property, physically remove the facility and recover costs associated with that removal from the property owner/operator.
2. Decommissioning Requirements:
a. The site shall be restored within six (6) months of removal.
b. Restoration of the site shall consist of the following:
i. Dismantle and removal of all photovoltaic solar power generation facilities including modules, mountings, foundations, gravel beds, inverters, wiring, and storage devices.
ii. Private access road areas shall be restored by removing gravel and restoring surface grade and soil, unless the landowner directs otherwise.
iii. After removal of the structures and roads the area, if disturbed during SPPF construction and operation, shall be graded as close as is reasonably possible to its original contours or contours advantageous for agricultural operations and the soils shall be restored to a condition compatible with farm uses or consistent with other resource uses. Re-vegetation shall include plant species suited to the area, or planting by landowner of agricultural crops, as appropriate, and shall be consistent with noxious weed control measures.
c. Proponents of any SPPF shall demonstrate decommission assurances to Kittitas County in the form of a surety bond or escrow account to cover the cost of removal in the event the facility must be removed by Kittitas County. The intent of this requirement is to guarantee performance (not just provide financial insurance) to protect public interest and the County budget from an unanticipated, unwarranted burden to decommission a SPPF. The proponent shall submit a fully inclusive estimate of the costs associated with removal prepared by a qualified Washington State Licensed engineer that is accepted by Kittitas County. The decommissioning funds shall be equivalent to $125 \%$ of the engineer's estimated cost for the purpose of guaranteeing completion of the work. The decommissioning assurance shall be reevaluated every five (5) years to ensure sufficient funds for decommissioning, and if deemed appropriate at the time, the amount of decommissioning funds shall be adjusted accordingly.

## EXHIBIT B. Cost Estimate

## TE TETRA TECH

April 11, 2024

Mr. Abs Light
Associate, Renewable Development
Invenergy
959 SE Division St., Suite 350
Portland, Oregon 97214

## Re: Decommissioning Cost Estimate for Schnebly Coulee Solar Energy Project, Kittitas County, Washington

## Mr. Light:

Per your request, Tetra Tech Inc. has prepared the attached decommissioning cost estimate for the Schnebly Coulee Solar Energy Project proposed in Kittitas County, Washington. The estimate was prepared using the project information in your conditional use application to Kittitas County and as otherwise supplied by you. The estimate was prepared by a Senior Construction Cost Estimator under direct supervision of a Professional Engineer, licensed in the State of Washington, consistent with Section 17.61C.110(2)(c) of the Kittitas County Code.

## Sincerely,

Tetra Tech, Inc.
Paul T. Arica

Paul Silo, AICP
Senior Project Manager


Robert M Donati, PE
Registered Professional Engineer, State of Washington
License \#48647, Expires 02/21/2924

## Estimate Summary

TETRA TECH EC, INC.
Job Code: Schnebly Solar
Description: Decommissioning Estimate

| Cost Item |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBS <br> Position Code | Quantity UM | Description | UM/Day | Cost Source | Currency | Unit Cost | Total Cost |
| 1 | 1.00 Lump Sum | SCHNEBLY SOLAR RETIREMENT | 0.00 | Detail | U.S. Dollar | 4,150,165.60 | 4,150,165.60 |
| 1.1 | 1.00 Lump Sum | Equipment \& Facilities Mob / Demob | 0.50 | Detail | U.S. Dollar | 51,661.20 | 51,661.20 |
| 1.1.1 | 1.00 Lump Sum | Equipment Mob | 0.00 | Detail | U.S. Dollar | 40,600.00 | 40,600.00 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| UERNTRLG | Rental Equip Tran |  | 4.00 Each | U.S. |  | 10,000.00 | 40,000.00 |
| UERNTRSM | Rental Equip Tran |  | 4.00 Each | U.S. |  | 150.00 | 600.00 |
| 1.1.2 | 1.00 Lump Sum | Site Facilities | 0.00 | Detail | U.S. Dollar | 2,200.00 | 2,200.00 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| UOCONMOB | Connex Box Mob |  | 2.00 Each |  |  | 300.00 | 600.00 |
| UOTRLTRN | Trailer Trnsp/Setu |  | 2.00 Each | U.S. |  | 800.00 | 1,600.00 |
| 1.1.3 | 1.00 Day | Crew Mob \& Site Setup | 1.00 | Detail | U.S. Dollar | 4,430.60 | 4,430.60 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| L060100 | GENERAL LABO | 60.00 | 6.00 Each (hourly) | U.S. |  | 40.26 | 2,415.60 |
| L010101 | OPERATOR | 40.00 | 4.00 Each (hourly) | U.S |  | 50.37 | 2,015.00 |
| 1.1.4 | 1.00 Day | Crew Demob \& Site Cleanup | 1.00 | Detail | U.S. Dollar | 4,430.60 | 4,430.60 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| L060100 | GENERAL LABO | 60.00 | 6.00 Each (hourly) | U.S. |  | 40.26 | 2,415.60 |
| L010101 | OPERATOR | 40.00 | 4.00 Each (hourly) | U.S. |  | 50.37 | 2,015.00 |
| 1.2 | 4.00 Month | Project Site Support | 0.05 | Detail | U.S. Dollar | 44,470.30 | 177,881.19 |
| 1.2.1 | 4.00 Month | Site Facilities | 0.00 | Detail | U.S. Dollar | 1,305.00 | 5,220.00 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| URCONNEX | Connex Box |  | 4.00 Month | U.S. |  | 150.00 | 600.00 |
| UROFFTRL | Office Trailer -12x |  | 4.00 Month | U.S. |  | 500.00 | 2,000.00 |
| U01STAID | 1st Aid Supplies |  | 4.00 Month | U.S. |  | 300.00 | 1,200.00 |
| UOOFFSUP | Office Supplies(\$/ |  | 4.00 Month | U.S. |  | 55.00 | 220.00 |
| URPRTAJH | Port-a-John Unit(s) |  | 4.00 Month | U.S. |  | 300.00 | 1,200.00 |
| 1.2.2 | 4.00 Month | Field Management | 0.05 | Detail | U.S. Dollar | 43,165.30 | 172,661.19 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| L90FXX02 | Field - Proj Super | dent 880.00 | 1.00 Each (hourly) | U.S. |  | 83.18 | 73,200.16 |
| RPUTRK05 | F-250 4X4 3/4 TO | CKUP 1,760.00 | 2.00 Each (hourly) | U.S. |  | 11.88 | 20,908.80 |
| L90FXX03 | Field - SHSO | 880.00 | 1.00 Each (hourly) | U.S. |  | 89.26 | 78,552.23 |
| 1.3 | 1.00 Lump Sum | Substation Retirement | 0.04 | Detail | U.S. Dollar | 173,621.26 | 173,621.26 |
| 1.3.1 | 1.00 Day | Fence Removal | 1.00 | Detail | U.S. Dollar | 1,259.05 | 1,259.05 |
| Resource Code | Description | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| L010101 | OPERATOR | 10.00 | 1.00 Each (hourly) | U.S. |  | 50.37 | 503.75 |
| L060100 | GENERAL LABO | 10.00 | 1.00 Each (hourly) | U.S. |  | 40.26 | 402.60 |
| RBACKH09 | Deere 710J BACK | , 1.62CY 10.00 | 1.00 Each (hourly) | U.S. |  | 35.27 | 352.70 |
| 1.3.2 | 1.00 Each | Transformer Removal | 0.17 | Detail | U.S. Dollar | 92,788.70 | 92,788.70 |
| 1.3.2.1 | 1.00 Each | Oil Removal \& Disposal | 1.00 | Detail | U.S. Dollar | 58,180.20 | 58,180.20 |




| Cost Item |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBS <br> Position Code | Quantity UM | Descriptio |  | UM/Day | Cost Source | Currency | Unit Cost | Total Cost |
| USTRUCKING | Trucking Sub |  |  | 1,440.00 Each | U.S. Dollar |  | 1.00 | 1,440.00 |
| 1.4.2 | 95.00 Each | Wood Mon |  | 20.00 | Detail | U.S. Dollar | 327.28 | 31,091.39 |
| 1.4.2.1 | 95.00 Each | Cut \& Load |  | 20.00 | Detail | U.S. Dollar | 110.17 | 10,466.39 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| *REXCAV06A | Excav 100K w/ Bucket \& Grapple |  | 47.50 | 1.00 Each (hourly) | U.S. Dollar |  | 129.71 | 6,161.23 |
| L010101 | OPERATOR |  | 47.50 | 1.00 Each (hourly) | U.S. Dollar |  | 50.37 | 2,392.81 |
| L060100 | GENERAL LABORER |  | 47.50 | 1.00 Each (hourly) | U.S. Dollar |  | 40.26 | 1,912.35 |
| 1.4.2.2 | 15.00 Each | Trucking - |  | 0.00 | Detail | U.S. Dollar | 1,375.00 | 20,625.00 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| USTRUCKING | Trucking Sub |  |  | 20,625.00 Each | U.S. Dollar |  | 1.00 | 20,625.00 |
| 1.5 | 25.00 Each | Inverter / Transformer Removal |  | 0.66 | Detail | U.S. Dollar | 4,839.08 | 120,977.00 |
| 1.5.1 | 25.00 Each | Disconnect Electrical |  | 1.92 | Detail | U.S. Dollar | 649.23 | 16,230.77 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| L010110 | ELECTRCIAN |  | 130.00 | 1.00 Each (hourly) |  |  | 72.71 | 9,452.57 |
| L060100 | GENERAL LABORER |  | 130.00 | 1.00 Each (hourly) |  |  | 40.26 | 5,233.80 |
| RPUTRK05 | F-250 4X4 3/4 TON PICKUP |  | 130.00 | 1.00 Each (hourly) | U.S. |  | 11.88 | 1,544.40 |
| 1.5.2 | 25.00 Each | Loadout Inverter \& Transformer |  | 1.00 | Detail | U.S. Dollar | 2,814.85 | 70,371.24 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| L060100 | GENERAL LABORER |  | 1,000.00 | 4.00 Each (hourly) | U.S. |  | 40.26 | 40,260.00 |
| L010101 | OPERATOR |  | 250.00 | 1.00 Each (hourly) | U.S. |  | 50.37 | 12,593.74 |
| RHYDCR06 | GROVE RT880 73 TON |  | 250.00 | 1.00 Each (hourly) | U.S. Dollar |  | 70.07 | 17,517.50 |
| 1.5.3 | 25.00 Each | Trucking - Per Load |  | 0.00 | Detail | U.S. Dollar | 1,375.00 | 34,375.00 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| USTRUCKING | Trucking Sub |  |  | 34,375.00 Each | U.S. Dollar |  | 1.00 | 34,375.00 |
| 1.6 | 25.00 Each | Remove Foundations To Subgrade |  | 1.75 | Detail | U.S. Dollar | 1,160.27 | 29,006.85 |
| 1.6 .1 | 1,050.00 Cubic Yard | Excavate / Remove Foundation |  | 280.00 | Detail | U.S. Dollar | 15.60 | 16,382.25 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| L060100 | GENERAL LABORER |  | 37.50 | 1.00 Each (hourly) |  |  | 40.26 | 1,509.75 |
| L010101 | OPERATOR |  | 75.00 | 2.00 Each (hourly) | U.S. |  | 50.37 | 3,778.12 |
| *REXCAV06C | Excav 100K w/ Hammer |  | 37.50 | 1.00 Each (hourly) | U.S. |  | 166.14 | 6,230.25 |
| *REXCAV06A | Excav 100K w/ Bucket \& Grapple |  | 37.50 | 1.00 Each (hourly) | U.S. Dollar |  | 129.71 | 4,864.13 |
| 1.6 .2 | 1,050.00 Cubic Yard | Concrete Transport Offsite |  | 100.00 | Detail | U.S. Dollar | 12.02 | 12,624.60 |
| Resource Code | Description |  | Hours | Quantity UM |  |  | Unit Cost | Total Cost |
| RDUTRK06 | CAT D350D, 18CY-24CY |  | 105.00 | 1.00 Each (hourly) |  |  | 76.71 | 8,054.55 |
| L080940 | TEAMSTER |  | 105.00 | 1.00 Each (hourly) | U.S. |  | 43.52 | 4,570.05 |
| 1.7 | 1.00 Lump Sum | Solar Array Retirement |  | 0.00 | Detail | U.S. Dollar | 3,511,047.26 | 3,511,047.26 |
| 1.7 .1 | 41,570.00 Linear Feet | Fence Removal |  | 5,124.80 | Detail | U.S. Dollar | 1.24 | 51,435.59 |
| 1.7.1.1 | 41,570.00 Linear Feet | Fence Removal |  | 5,124.80 | Detail | U.S. Dollar | 0.97 | 40,435.59 |
| Resource Code | Description |  | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| L010101 | OPERATOR |  | 243.35 | 3.00 Each (hourly) | U.S. Dollar |  | 50.37 | 12,258.55 |
| L060100 | GENERAL LABORER |  | 486.69 | 6.00 Each (hourly) | U.S. Dollar |  | 40.26 | 19,594.23 |
| RBACKH09 | Deere 710J BACKHOE, 1.62CY |  | 243.35 | 3.00 Each (hourly) | U.S. Dollar |  | 35.27 | 8,582.82 |
| 1.7.1.2 | 8.00 Each | Trucking - Per Load |  | 0.00 | Detail | U.S. Dollar | 1,375.00 | 11,000.00 |



| 1.7 .3 .2 | 174.00 Each | Trucking - Per Load | 0.00 | Detail | U.S. Dollar | $1,375.00$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Code | Description |  | Hours | Quantity UM | Currency | Unit Cost |
| USTRUCKING | Trucking Sub |  |  | $239,250.00$ Each | U.S. Dollar | 1.00 |

Notes: **************************************
Assumption: 45,000 lbs per load
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| 1.8 | 1.00 Lump Sum | Underground Cable Removal | 0.10 | Detail | U.S. Dollar | $56,147.99$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1.8 .1 | 1.00 Lump Sum | Remove Cable |  | $56,147.99$ |  |  |
| Resource Code | Description |  | 0.10 | Detail | U.S. Dollar | $49,272.99$ |
| L010101 | OPERATOR | Hours | Quantity UM | Currency | Unit Cost | Total Cost |
| L060100 | GENERAL LABORER | 200.00 | 2.00 Each (hourly) | U.S. Dollar | 50.37 | $10,074.99$ |
| *REXCAV06D | Excav 100K | 400.00 | 4.00 Each (hourly) | U.S. Dollar | 40.26 | $16,104.00$ |



| 1.9.3 | 347.00 Acre | Re-Seed With Native Vegetation - Roads <br> \&Areas Disturbed By Construction | 0.00 | Detail | U.S. Dollar | $1,000.00$ | $347,000.00$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Code | Description |  | Hours | Quantity UM | Currency | Unit Cost | Total Cost |
| USLANDSCAPE | Landscape Sub |  | 347.00 Acre | U.S. Dollar | $1,000.00$ | $347,000.00$ |  |

Notes: $\begin{aligned} & * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * ~ \\ & \text { Assumtion: } 694 \text { acres total property area. }\end{aligned}$
Assume that $50 \%$ of the area will be re-seeded.
******************************************************

| 1.9.4 | 4.00 Each | Culvert Removal | 2.00 | Detail | U.S. Dollar | 973.12 | 3,892.50 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Resource Code | Description | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| L010101 | OPERATOR | 20.00 | 1.00 Each (hourly) | U.S. Dollar |  | 50.37 | 1,007.50 |
| L060100 | GENERAL LABORER | 20.00 | 1.00 Each (hourly) | U.S. Dollar |  | 40.26 | 805.20 |
| *REXCAV06D | Excav 100K | 20.00 | 1.00 Each (hourly) | U.S. Dollar |  | 103.99 | 2,079.80 |
| 1.10 | 1.00 Lump Sum | Contractor Markups | 0.00 | Detail | U.S. Dollar | 882,580.51 | 882,580.51 |
| 1.10.1 | 1.00 Lump Sum | Home Office, Project Management ( $5 \%$ Of 0.00 Cost) |  | Detail | U.S. Dollar | 236,616.75 | 236,616.75 |
| Resource Code | Description | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| USMARKUP5 | 5\% Markup |  | 4,732,335.00 Each | U.S. Dollar |  | 0.05 | 236,616.75 |
| 1.10.2 | 1.00 Lump Sum | Contractor OH \& Fee (13\% Of Cost) | 0.00 | Detail | U.S. Dollar | 645,963.76 | 645,963.76 |
| Resource Code | Description | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| USMARKUP | 13\% Markup |  | 4,968,952.00 Each | U.S. Dollar |  | 0.13 | 645,963.76 |
| 1.11 | 1.00 Lump Sum | Scrap Metal Credit | 0.00 | Detail | U.S. Dollar | (1,464,750.00) | (1,464,750.00) |
| 1.11.1 | 180.00 Ton | Scrap Credit - Substation | 0.00 | Detail | U.S. Dollar | (298.00) | $(53,640.00)$ |
| Resource Code | Description | Hours | Quantity UM | Currency |  | Unit Cost | Total Cost |
| UODCFERROUS | Ferrous Metal Scrap |  | 180.00 Ton | U.S. Dollar |  | (298.00) | $(53,640.00)$ |



| Category | Total |
| :--- | ---: |
| Labor | $1,499,321.60$ |
| Rented Equipment | $1,524,273.49$ |
| Supplies | $1,420.00$ |
| Materials | $40,000.00$ |
| Subcontract | $2,547,700.51$ |
| ODCs | $2,200.00$ |
| Other Costs | $(1,464,750.00)$ |

