

AC Power 47 LLC – Ridge Road Solar Decommissioning Plan

Prepared for:

AC Power 47, LLC
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1.0 INTRODUCTION

AC Power 47 LLC (AC Power) plans to build a photovoltaic (PV) solar facility (Solar Facility) on a portion of two tax parcels totaling 48.76-acres (Tax ID: 279.-1-14.1, 279.-1-14.2; hereafter “Project area”) in the Town of Queensbury (Town), Warren County, New York. The Solar Facility is planned to have a nameplate capacity of approximately 5 megawatts (MW) alternative current (AC) and be constructed on land (“Project Site”) leased from The Town of Queensbury, New York. (“Property Owner”).

This Decommissioning Plan (“Plan”) provides an overview of activities that will occur during the decommissioning phase of the Solar Facility, including activities related to the restoration of land, management of material and waste, projected costs, and a proposed decommissioning funding plan.

The Solar Facility will have an anticipated useful life of thirty-five (35) years. The lease agreement (“Lease”) between AC Power and Property Owner has not been finalized but such leases typically provide for a twenty to twenty-five (25) year lease term, with possible option to extend the term pursuant to the Parties reaching mutual agreement. The Lease has been executed and recorded with the County Clerk’s office.

This Plan assumes the Solar Facility will be dismantled, and the Project Site restored to a state similar to its pre-construction condition, at the twenty-five (25) year anniversary of the Solar Facility’s commercial operation date (“Expected Decommissioning”). Tenant will have two, optional 5-year Renewal Terms. This Plan also covers the case of the abandonment of the Solar Facility, for any reason, prior to the Expected Decommissioning Date.

Decommissioning of the Solar Facility will include the disconnection of the Solar Facility from the utility electrical grid and the removal of all Solar Facility components, including:

- Photovoltaic (PV) modules, module racking and supports;
- Inverter units, substation, transformers, and other electrical equipment;
- Access roads, wiring cables, perimeter fence; and,
- Inverter pad concrete foundations.

All components will be recycled / disposed of in accordance with local, state, and federal waste disposal regulations. This Plan is based on current best management practices and procedures. This Plan may be subject to revision based on new standards and emergent best management practices at the time of decommissioning. Permits will be obtained as required and notification will be given to stakeholders prior to decommissioning.

AC Power will establish a bond with the Town for an agreed upon amount before the issuance of a building permit for the Town’s use in the event of Solar Facility abandonment and/or financial failure.

2.0 THE PROPONENT

AC Power will manage and coordinate the decommissioning process. AC Power will obtain all necessary regulatory approvals that vary depending on the jurisdiction, project capacity, and site location. AC Power will build a long-term relationship with the community hosting the Solar Facility and will be committed to the safety, health, and welfare of the hosting community. The conditions and obligation of this Decommissioning Plan shall be bound upon AC Power, its heirs, executors, administrators, successors or assigns.

Contact information for the proponent is as follows:

Contact Information

Item	Description
Company	AC Power 47 LLC (c/o AC Power LLC)
Contact	Gina Wolfman
Address	915 Broadway, Suite 801, New York, NY 10010
Phone	845-648-2955
Email	gina@acpowerllc.com; pd@acpowerllc.com

Project Information

Item	Description
Address	1396 Ridge Road and 236 Jenkinville Road Queensbury, Warren County, NY 12804
Tax ID	279.-1-14.2 (25.90 acres), 279.-1-14.1 (22.90 acres)
Project Size	5 MWac
Property Owner	Town of Queensbury
Email	lmoore@queensbury.net
Phone	518-761-8265
Site Agreement	Lease agreement to be executed

3.0 DECOMMISSIONING OF SOLAR FACILITY

Upon the time of decommissioning, the installed components will be removed, reused, disposed of, and recycled, where possible. The Project Site will be restored to a state similar to its pre-construction condition. All removal of equipment will be done in accordance with applicable laws and regulations, and manufacturer recommendations. All applicable permits will be acquired.

The decommissioning process of the Solar Facility may commence for the following reasons:

- 1) AC Power provides written notice to the Town of its intent to retire or decommission the Project (“Owner Decommissioning Notice”), or
- 2) Solar Facility ceases to be operational for more than twelve (12) consecutive months.

4.0 DECOMMISSIONING SCOPE AND TIMELINE

The decommissioning of a Solar Facility proceeds in the reverse order of installation. The below scope includes the anticipated time required for completion of each task. All components will be recycled/disposed of in accordance with local, state, and federal waste disposal regulations. The overall task of decommissioning is expected to take 6-9 months.

Task #	Task Description	Duration
1	The Solar Facility will be disconnected from the utility power grid	1 Day
2	All required permits, including obtaining coverage under the most current NYS SPDES General Permit for Stormwater Discharges from construction activity, shall be obtained	10 Days
3	Mobilization of equipment and facilities	1 Day
4	Installation of erosion and sediment controls	1 Day
5	PV modules shall be disconnected, collected, and disposed at an approved module recycler or reused/resold	1-2 Weeks
6	All above ground and underground electrical interconnection and distribution cables shall be removed and disposed of off-site at an approved facility	2 Weeks
7	Galvanized steel PV module support and racking system support posts shall be removed and disposed of off-site at an approved facility	2 Weeks
8	Electrical and electronic devices, including transformers and inverters shall be removed and disposed of off-site at an approved facility	1 Week
9	Concrete foundations shall be removed and will be disposed of off-site at an approved facility	2 Days
10	Fencing shall be removed and will be disposed of off-site at an approved facility	1 Week
11	Removal of all access roads, except those retained by landowner, and stormwater practices	1 Week
12	Soil restoration and permanent seeding, or seeding will be in the form of crops planted by the landowner	4 Days
13	Removal of all erosion and sediment controls	1 Week
14	Filing of the Notice of Termination with the Town	5 Days

5.0 ENVIRONMENTAL EFFECTS

Decommissioning activities, particularly the removal of project components could result in environmental effects similar to those of the construction phase. For example, there is the potential for disturbance (erosion/sedimentation) to adjacent watercourses or significant natural features.

Mitigation measures including obtaining all required permits and coverage under the most current NYS SPDES General Permit for Stormwater Discharges from Construction Activity will be implemented. These measures will remain in place until the site is stabilized in order to mitigate erosion and silt/sediment runoff and any impacts on the significant natural features or water bodies located adjacent to the Project Site. All removed components will be recycled / disposed of in accordance with local, state, and federal waste disposal regulations.

Potential Temporary Work-Related Disturbances:

- Increase in road traffic due to movement of crews and equipment.
- Work expected to last 6-9 months
- Increase in dust in adjacent areas
- Temporary elevated noise levels from machinery and increased trips to project site

Work will be undertaken during daylight hours and conform to any applicable restrictions.

6.0 SITE RESTORATION

The Project Site will be restored to a state similar to its pre-construction condition. All project components will be removed and recycled/disposed of in accordance with local, state, and federal waste disposal regulations. Rehabilitated land will be seeded with a low-growing species to help stabilize soil conditions, enhance soil structure, and increase soil fertility. Soil restoration and seeding will follow current requirement of the NYS Standards and Specifications for Erosion and Sediment Control, including the appropriately recommended seed mixes at the time, unless this seed mix is replaced with crop planting by the landowner.

7.0 MANAGING MATERIALS AND WASTE

The following table shows the materials and waste related to the Solar Project. Most of the materials are reusable or recyclable and some equipment may have manufacturer take-back and recycling requirements/programs. AC Power will establish policies and procedures to maximize recycling and reuse and will work with manufacturers, local subcontractors, and waste firms to segregate material to be disposed of, recycled, or reused. All components will be recycled / disposed of in accordance with local, state, and federal waste disposal regulations.

Management of Materials and Waste	
Material (Waste)	Proposed Management
PV Modules	•Panels will be removed and transported to a secondary buyer or solar recycling facility
Mounting Racks / Steel Support	•Materials will be removed and transported to an appropriate facility
Transformers / Substation Components	•Removal of small amount of on-site oil transported to an appropriate facility •Substation transformer and step-up transformers (inside inverter) will be transported to the manufacturer, recycled, reused, or disposed in accordance with current standards and practices
Inverters, fans, fixtures	•Metal components to be recycled or disposed of in accordance with current standards and practices •Remaining components to be recycled or disposed of in accordance with current standards and practices
Gravel (or other granular)	•Gravel and other granular materials will be removed by truck and disposed of in accordance with current standards and practices
Concrete inverter/transformer foundations	•Concrete foundations will be broken down and transported to recycling or approved disposal facility
Cables and wiring	•Wiring connecting the array to the utility grid will be disconnected and removed •Support poles, if made of untreated wood, will be chipped and reused. Otherwise, poles will be removed and disposed of at an approved facility •Electronic equipment (isolation switches, fuses, metering) will be transported offsite to be sent back to the manufacturer, recycled, reused, or safely disposed of off-site in accordance with current standards and practices
Fencing	•Fencing will be removed and transported to a metal recycling facility
Debris	•Any remaining debris on-site will be transported off-site and managed as appropriate

8.0 COST OF DECOMMISSIONING

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Unit Cost	Total Cost (Forecast)
1	RIDGE ROAD SOLAR RETIREMENT	1.00	Lump Sum	\$443,098.59	\$443,098.59
1.1	Mob / Demob	1.00	Lump Sum	\$21,400.00	\$21,400.00
1.1.1	Equipment Mob	1.00	Lump Sum	\$20,300.00	\$20,300.00
1.1.2	Site Facilities	1.00	Lump Sum	\$1,100.00	\$1,100.00
1.2	Site Facilities	3.00	Month	\$2,005.00	\$6,015.00
1.3	Field Management	12.00	Week	\$5,654.82	\$67,857.84
1.4	Transformer, AC Panel & Utility Tie	1.00	Lump Sum	\$12,150.09	\$12,150.09
1.4.1	Transformer & AC Panel Removal	1.00	Each	\$3,277.41	\$3,277.41
1.4.2	Remove Foundations To Subgrade	22.00	Cubic Yard	\$57.27	\$1,260.05
1.4.3	Cut / Lower Cable, Size & Loadout	1.00	Lump Sum	\$1,758.09	\$1,758.09
1.4.4	Utility Pole Removal	5.00	Each	\$1,108.23	\$5,541.15
1.4.5	Underground Cable Removal	50.00	Linear Feet	\$6.27	\$313.40
1.5	Solar Array Removal	1.00	Lump Sum	\$295,327.18	\$295,327.18
1.5.1	Fence Removal	900.00	Linear Feet	\$5.13	\$4,615.43
1.5.2	String Inverter Removal	40.00	Each	\$301.44	\$12,057.56
1.5.3	Solar Panel Removal	10,504.00	Each	\$7.56	\$79,445.82
1.5.4	Solar Rack & Ballast Removal	1.00	Lump Sum	\$175,135.96	\$175,135.96
1.5.5	Surface Conduit / Cable Removal - Ground Mount	2,500.00	Linear Feet	\$1.00	\$2,500.56
1.5.6	Above Grade Cable Removal - Rack Mounted	101,000.00	Linear Feet	\$0.20	\$20,071.86
1.5.7	Trucking - Per Load - Cable & Inverters	1.00	Each	\$1,500.00	\$1,500.00
1.6	Misc Waste Disposal	1.00	Lump Sum	\$6,080.00	\$6,080.00
1.6.1	Disposal Cost	44.00	Ton	\$70.00	\$3,080.00
1.6.2	Trucking - Per Load	2.00	Each	\$1,500.00	\$3,000.00
1.7	Site Restoration - Partial Site Seeding	1.00	Lump Sum	\$14,612.39	\$14,612.39
1.7.1	Restore Roads, Remove Base & Surface Course.	100.00	Cubic Yard	\$3.99	\$398.86
1.7.2	Spot Grade Disturbed Areas	9.00	Acre	\$579.28	\$5,213.53
1.7.3	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	9.00	Acre	\$1,000.00	\$9,000.00
1.8	Home Office, Project Management (5% Of Cost)	1.00	Lump Sum	\$21,172.15	\$21,172.15
1.9	Contractor OH & Fee (13% Of Cost)	1.00	Lump Sum	\$57,799.95	\$57,799.95
1.10	Scrap Metal Credit	1.00	Lump Sum	-\$59,316.01	-\$59,316.01
1.10.1	Transformer & AC Panel	8.00	Ton	-\$254.00	-\$2,032.00
1.10.2	Module Rack	162.00	Ton	-\$254.00	-\$41,148.00
1.10.3	Fence	4.00	Ton	-\$254.00	-\$1,016.00
1.10.4	Scrap Credit - Cable	6.30	Ton	-\$2,400.00	-\$15,120.01

APPENDIX A DECOMMISSIONING COST ESTIMATE

Estimate Summary
TETRA TECH, INC.

Job Code: Ridge Road Solar
Description: Decommissioning Estimate

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1	1.00 Lump Sum	RIDGE ROAD SOLAR RETIREMENT	0.01	Detail	U.S. Dollar	443,098.59	443,098.59
1.1	1.00 Lump Sum	Mob / Demob	0.00	Detail	U.S. Dollar	21,400.00	21,400.00
1.1.1	1.00 Lump Sum	Equipment Mob	0.00	Detail	U.S. Dollar	20,300.00	20,300.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UERNTRLG	Rental Equip Transp-Large		2.00 Each	U.S. Dollar	10,000.00	20,000.00	
UERNTRSM	Rental Equip Transp-Small		2.00 Each	U.S. Dollar	150.00	300.00	
1.1.2	1.00 Lump Sum	Site Facilities	0.00	Detail	U.S. Dollar	1,100.00	1,100.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
UOCONMOB	Connex Box Mob		1.00 Each	U.S. Dollar	300.00	300.00	
UOTRLTRN	Trailer Trnsp/Setup/Trdwn		1.00 Each	U.S. Dollar	800.00	800.00	
1.2	3.00 Month	Site Facilities	0.00	Detail	U.S. Dollar	2,005.00	6,015.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
URCONNEX	Connex Box		3.00 Month	U.S. Dollar	150.00	450.00	
UROFFTRL	Office Trailer -12x60		3.00 Month	U.S. Dollar	500.00	1,500.00	
UO1STAI	1st Aid Supplies		3.00 Month	U.S. Dollar	300.00	900.00	
UOOFFPHN	Monthly Office Phone		3.00 Month	U.S. Dollar	500.00	1,500.00	
UOOFFSUP	Office Supplies(\$/prs/mo)		3.00 Month	U.S. Dollar	55.00	165.00	
UINT	Internet		3.00 Month	U.S. Dollar	200.00	600.00	
URPRTAJH	Port-a-John Unit(s) (4)		3.00 Month	U.S. Dollar	300.00	900.00	
1.3	12.00 Week	Field Management	0.17	Detail	U.S. Dollar	5,654.82	67,857.84
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L90FFX02	Field - Proj Superintendent	720.00	1.00 Each (hourly)	U.S. Dollar	83.18	59,891.04	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	720.00	1.00 Each (hourly)	U.S. Dollar	11.07	7,966.80	
1.4	1.00 Lump Sum	Transformer, AC Panel & Utility Tie	0.29	Detail	U.S. Dollar	12,150.09	12,150.09
1.4.1	1.00 Each	Transformer & AC Panel Removal	1.00	Detail	U.S. Dollar	3,277.41	3,277.41
1.4.1.1	1.00 Each	Disconnect Electrical	2.00	Detail	U.S. Dollar	578.71	578.71
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	ELECTRICIAN	5.00	1.00 Each (hourly)	U.S. Dollar	53.68	268.40	
L060100	GENERAL LABORER	5.00	1.00 Each (hourly)	U.S. Dollar	51.00	254.98	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	5.00	1.00 Each (hourly)	U.S. Dollar	11.07	55.33	
1.4.1.2	1.00 Each	Loadout Transformer & AC Panel	2.00	Detail	U.S. Dollar	1,198.70	1,198.70
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	10.00	2.00 Each (hourly)	U.S. Dollar	51.00	509.96	
L010101	OPERATOR	5.00	1.00 Each (hourly)	U.S. Dollar	72.47	362.34	
RHYDCR06	GROVE RT880 73 TON	5.00	1.00 Each (hourly)	U.S. Dollar	65.28	326.40	
1.4.1.3	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar	1.00	1,500.00	
1.4.2	22.00 Cubic Yard	Remove Foundations To Subgrade	44.44	Detail	U.S. Dollar	57.27	1,260.05
1.4.2.1	22.00 Cubic Yard	Excavate / Remove Foundation - Various Depth	80.00	Detail	U.S. Dollar	44.61	981.47

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	2.75	1.00 Each (hourly)	U.S. Dollar		51.00	140.24
L010101	OPERATOR	5.50	2.00 Each (hourly)	U.S. Dollar		72.47	398.57
*REXCAV06C	Excav 100K w/ Hammer	2.75	1.00 Each (hourly)	U.S. Dollar		160.97	442.65
1.4.2.2	22.00 Cubic Yard	Concrete Transport Offsite	100.00	Detail	U.S. Dollar	12.66	278.58
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RDUTRK06	CAT D350D, 18CY-24CY	2.20	1.00 Each (hourly)	U.S. Dollar		74.29	163.44
L080940	TEAMSTER	2.20	1.00 Each (hourly)	U.S. Dollar		52.34	115.14
1.4.3	1.00 Lump Sum	Cut / Lower Cable, Size & Loadout	2.00	Detail	U.S. Dollar	1,758.09	1,758.09
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	20.00	4.00 Each (hourly)	U.S. Dollar		51.00	1,019.92
L010101	OPERATOR	5.00	1.00 Each (hourly)	U.S. Dollar		72.47	362.34
*RXMISC14	MAN LIFT GAS 125ft	5.00	1.00 Each (hourly)	U.S. Dollar		53.52	267.60
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	5.00	1.00 Each (hourly)	U.S. Dollar		21.65	108.23
1.4.4	5.00 Each	Utility Pole Removal	4.00	Detail	U.S. Dollar	1,108.23	5,541.15
1.4.4.1	5.00 Each	Cut / Lower Pole	8.00	Detail	U.S. Dollar	404.12	2,020.58
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	25.00	4.00 Each (hourly)	U.S. Dollar		51.00	1,274.90
L010101	OPERATOR	6.25	1.00 Each (hourly)	U.S. Dollar		72.47	452.93
RHYDCR05	GROVE RT600E 40 TON	6.25	1.00 Each (hourly)	U.S. Dollar		46.84	292.75
1.4.4.2	5.00 Each	Size & Loadout	8.00	Detail	U.S. Dollar	404.12	2,020.58
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	25.00	4.00 Each (hourly)	U.S. Dollar		51.00	1,274.90
L010101	OPERATOR	6.25	1.00 Each (hourly)	U.S. Dollar		72.47	452.93
RHYDCR05	GROVE RT600E 40 TON	6.25	1.00 Each (hourly)	U.S. Dollar		46.84	292.75
1.4.4.3	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar		1.00	1,500.00
1.4.5	50.00 Linear Feet	Underground Cable Removal	250.00	Detail	U.S. Dollar	6.27	313.40
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L060100	GENERAL LABORER	2.00	1.00 Each (hourly)	U.S. Dollar		51.00	101.99
L010101	OPERATOR	2.00	1.00 Each (hourly)	U.S. Dollar		72.47	144.94
RBACKH09	Deere 710J BACKHOE, 1.62CY	2.00	1.00 Each (hourly)	U.S. Dollar		33.24	66.47
1.5	1.00 Lump Sum	Solar Array Removal	0.02	Detail	U.S. Dollar	295,327.18	295,327.18
1.5.1	900.00 Linear Feet	Fence Removal	600.00	Detail	U.S. Dollar	5.13	4,615.43
1.5.1.1	900.00 Linear Feet	Fence Removal	600.00	Detail	U.S. Dollar	3.46	3,115.43
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	15.00	1.00 Each (hourly)	U.S. Dollar		72.47	1,087.02
L060100	GENERAL LABORER	30.00	2.00 Each (hourly)	U.S. Dollar		51.00	1,529.88
RBACKH09	Deere 710J BACKHOE, 1.62CY	15.00	1.00 Each (hourly)	U.S. Dollar		33.24	498.53
1.5.1.2	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,500.00 Each	U.S. Dollar		1.00	1,500.00

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: ***** Assumption: 8 lbs per foot fence & posts *****							
1.5.2	40.00 Each	String Inverter Removal	5.00	Detail	U.S. Dollar	301.44	12,057.56
1.5.2.1	40.00 Each	Disconnect Electrical	10.00	Detail	U.S. Dollar	115.74	4,629.64
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010110	ELECTRCIAN	40.00	1.00 Each (hourly)	U.S. Dollar	53.68	2,147.20	
L060100	GENERAL LABORER	40.00	1.00 Each (hourly)	U.S. Dollar	51.00	2,039.84	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	40.00	1.00 Each (hourly)	U.S. Dollar	11.07	442.60	
1.5.2.2	40.00 Each	Loadout Inverter	10.00	Detail	U.S. Dollar	185.70	7,427.92
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	120.00	3.00 Each (hourly)	U.S. Dollar	51.00	6,119.52	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	40.00	1.00 Each (hourly)	U.S. Dollar	11.07	442.60	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	40.00	1.00 Each (hourly)	U.S. Dollar	21.65	865.80	
1.5.3	10,504.00 Each	Solar Panel Removal	3,000.00	Detail	U.S. Dollar	7.56	79,445.82
1.5.3.1	10,504.00 Each	Solar Panel Removal	3,000.00	Detail	U.S. Dollar	2.33	24,445.82
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	70.03	2.00 Each (hourly)	U.S. Dollar	21.65	1,515.73	
L010101	OPERATOR	70.03	2.00 Each (hourly)	U.S. Dollar	72.47	5,074.69	
L060100	GENERAL LABORER	350.13	10.00 Each (hourly)	U.S. Dollar	51.00	17,855.40	
Notes: ***** Assumed production: 30 panels per laborer per hour, includes packaging and preparing for shipment offsite. *****							
1.5.3.2	400.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	28,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		28,000.00 Each	U.S. Dollar	1.00	28,000.00	
Notes: ***** Assumption: 10,504 modules x 75.8 lbs each per data sheet *****							
1.5.3.3	18.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	27,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		27,000.00 Each	U.S. Dollar	1.00	27,000.00	
Notes: ***** Assumption: 45,000 lbs per load *****							
1.5.4	1.00 Lump Sum	Solar Rack & Ballast Removal	0.02	Detail	U.S. Dollar	175,135.96	175,135.96
1.5.4.1	404.00 Each	Solar Rack & Ballast Removal	10.00	Detail	U.S. Dollar	400.09	161,635.96
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	404.00	1.00 Each (hourly)	U.S. Dollar	72.47	29,277.07	
L060100	GENERAL LABORER	2,424.00	6.00 Each (hourly)	U.S. Dollar	51.00	123,614.30	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	404.00	1.00 Each (hourly)	U.S. Dollar	21.65	8,744.58	
Notes: ***** Assumed production: 2 hour per rack per crew. Crew to include 3 laborers, operator and support equipment. Quantity assumption: 26 modules per rack assembly *****							
1.5.4.2	9.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	13,500.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
USTRUCKING	Trucking Sub		13,500.00 Each		U.S. Dollar	1.00	13,500.00

Notes: *****
Assumption: 45,000 lbs per load

1.5.5	2,500.00 Linear Feet	Surface Conduit / Cable Removal - Ground Mount	4,000.00	Detail	U.S. Dollar	1.00	2,500.56
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
L010101	OPERATOR	6.25	1.00 Each (hourly)	U.S. Dollar	72.47	452.93
L060100	GENERAL LABORER	37.50	6.00 Each (hourly)	U.S. Dollar	51.00	1,912.35
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	6.25	1.00 Each (hourly)	U.S. Dollar	21.65	135.28

Notes: *****
Assume Sch 80 PVC conduit on landfill cap, layed on surface blocks

1.5.6	101,000.00 Linear Feet	Above Grade Cable Removal - Rack Mounted	15,000.00	Detail	U.S. Dollar	0.20	20,071.86
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	67.33	1.00 Each (hourly)	U.S. Dollar	21.65	1,457.43
L010101	OPERATOR	67.33	1.00 Each (hourly)	U.S. Dollar	72.47	4,879.51
L060100	GENERAL LABORER	269.33	4.00 Each (hourly)	U.S. Dollar	51.00	13,734.92

Notes: *****
Assume .10 lbs per lf, 250 lf per rack

1.5.7	1.00 Each	Trucking - Per Load - Cable & Inverters	0.00	Detail	U.S. Dollar	1,500.00	1,500.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,500.00 Each		U.S. Dollar	1.00	1,500.00

Notes: *****
Assumption: 45,000 lbs per load

1.6	1.00 Lump Sum	Misc Waste Disposal	0.00	Detail	U.S. Dollar	6,080.00	6,080.00
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1.6.1	44.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	70.00	3,080.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		3,080.00 Each		U.S. Dollar	1.00	3,080.00

Notes: *****
Ballast & Conduit

1.6.2	2.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,500.00	3,000.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		3,000.00 Each		U.S. Dollar	1.00	3,000.00

Notes: *****
Assumption: 45,000 lbs per load

1.7	1.00 Lump Sum	Site Restoration - Partial Site Seeding	0.43	Detail	U.S. Dollar	14,612.39	14,612.39
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1.7.1	100.00 Cubic Yard	Restore Roads, Remove Base & Surface Course.	703.75	Detail	U.S. Dollar	3.99	398.86
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
*RDOZER08	CAT D6 LGP Dozer	1.42	1.00 Each (hourly)	U.S. Dollar	58.34	82.89
L010101	OPERATOR	2.84	2.00 Each (hourly)	U.S. Dollar	72.47	205.95
*RFELWH08C	CAT 980 LOADER	1.42	1.00 Each (hourly)	U.S. Dollar	77.43	110.02

Notes: *****
Assumption: 180' of road x 20' width

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
1.7.2	9.00 Acre	Spot Grade Disturbed Areas	4.17	Detail	U.S. Dollar	579.28	5,213.53

Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
*RFELWH06	BOBCAT 742B LOADER	43.20	2.00 Each (hourly)	U.S. Dollar	14.53	627.48
L060100	GENERAL LABORER	86.40	4.00 Each (hourly)	U.S. Dollar	51.00	4,406.05
IMSOIL	Topsoil		9.00 Cubic Yard	U.S. Dollar	20.00	180.00

Notes: *****
 Repair areas disturbed by ballast blocks

1.7.3	9.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	Detail	U.S. Dollar	1,000.00	9,000.00
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USLANDSCAPE	Landscape Sub		9.00 Acre	U.S. Dollar	1,000.00	9,000.00

Notes: *****
 Reseed areas disturbed by ballast block

1.8	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	Detail	U.S. Dollar	21,172.15	21,172.15
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USMARKUP5	5% Markup		423,443.00 Each	U.S. Dollar	0.05	21,172.15

1.9	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	Detail	U.S. Dollar	57,799.95	57,799.95
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
USMARKUP	13% Markup		444,615.00 Each	U.S. Dollar	0.13	57,799.95

1.10	1.00 Lump Sum	Scrap Metal Credit	0.00	Detail	U.S. Dollar	(59,316.01)	(59,316.01)
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1.10.1	8.00 Ton	Transformer & AC Panel	0.00	Detail	U.S. Dollar	(254.00)	(2,032.00)
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
UODCFERROUS	Metal Scrap		8.00 Ton	U.S. Dollar	(254.00)	(2,032.00)

1.10.2	162.00 Ton	Module Rack	0.00	Detail	U.S. Dollar	(254.00)	(41,148.00)
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
UODCFERROUS	Metal Scrap		162.00 Ton	U.S. Dollar	(254.00)	(41,148.00)

1.10.3	4.00 Ton	Fence	0.00	Detail	U.S. Dollar	(254.00)	(1,016.00)
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
UODCFERROUS	Metal Scrap		4.00 Ton	U.S. Dollar	(254.00)	(1,016.00)

1.10.4	6.30 Ton	Scrap Credit - Cable	0.00	Detail	U.S. Dollar	(2,400.00)	(15,120.01)
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Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost
UODCCOP	Copper Scrap		12,600.01 Pound	U.S. Dollar	(1.20)	(15,120.01)

Notes: *****
 Assume .10 lbs per lf for rack mounted cable
 Assume 1 lbs per lf for ground mounted cable in conduit

Report Total:							443,098.59
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Category	Total
Labor	281,362.15
Rented Equipment	27,755.34
Supplies	1,065.00
Materials	180.00
Subcontract	188,852.10
ODCs	3,200.00
Other Costs	(59,316.01)