

NY CDG Monroe 3 LLC Solar Decommissioning Plan

Prepared for:

BW Solar Holding Inc.
69 State Street, 13th Floor
Albany, NY 12207

Prepared by:

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1.0 INTRODUCTION

BW Solar Holding Inc. (“Project Owner”), plans to build a photovoltaic (PV) solar facility (“Solar Facility”) at on a portion of tax lot 190.02-1-47.11 in the Town of Henrietta (“Town”). The Solar Facility is planned to have a nameplate capacity of approximately 4.40 megawatts (MW) alternative current (AC) and be constructed on private land (“Project Site”) leased by the Project Owner from the property owner Jack Finnigan (“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 a useful life of thirty-five (35) years. The lease agreement (“Lease”) between the Project Owner and Property Owner has a twenty-five (25) year lease term, with an option to extend the term pursuant to the Parties reaching mutual agreement. The Lease has been executed and recorded with the Monroe 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”). 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.

BW Solar 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

The Project Owner will manage and coordinate the decommissioning process. The project owner will obtain all necessary regulatory approvals that vary depending on the jurisdiction, project capacity, and site location. The Project Owner 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 bounded upon the Project Owner, its heirs, executors, administrators, successors or assigns.

Contact information for the proponent is as follows:

Contact Information

Item	Description
Company	BW Solar Holding Inc.
Contact	Daniel Huntington
Address	69 State Street, 13th Floor, Albany, NY 12207
Phone	585-727-9918
Email	Daniel.Huntington@bwsolar.com

Project Information

Item	Description
Address	175 Tobin Rd, Henrietta, NY 14467
Tax ID	190.02-1-47.11
Project Size	4.40 MWac
Property Owner	Jack Finnigan
Site Agreement	Lease agreement to be executed at Monroe County Clerk's Office

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 state and in accordance with Henrietta Town Code § 295-73C(5). 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) Project Owner 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 six (6) consecutive months.

In the event the Project Owner fails to decommission the Solar Facility within 90 days after being considered abandoned, the municipality may remove the system and restore the property, using the bond proceeds to do so, and impose a lien on the property to cover any costs to the municipality in excess of the bond proceeds. This is in accordance with Town Code § 295-73C(9). For purposes of this Agreement, “abandoned” shall mean no generation of electricity, other than due to repairs to the Project or causes beyond reasonable control of the Project Owner. Pursuant to Town Code § 295-75D, should the owner and/or operator fail to decommission the solar energy system as required:

- (1) The Town shall issue a notice to the owner/operator on file with the Town calling for a hearing before the Town Board. The owner/operator may present evidence at such hearing regarding the abandonment and decommissioning status of the solar energy system.
- (2) If, after said hearing, the Town Board determines that the solar energy system is, in fact, abandoned, and the time to decommission it has expired, the Town Board may then order that the Town remove the solar energy system itself. In this case, the Town may utilize the proceeds from the bond provided as part of the decommissioning plan to pay for said decommissioning.

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 timeline for completion of each task. All components will be recycled / disposed of in accordance with local, state, and federal waste disposal regulations.

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 2-3 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. The Project Owner 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)	Management
PV Modules	<ul style="list-style-type: none"> •Panels will be removed and transported to a secondary buyer or solar recycling facility
Mounting Racks / Steel Support	<ul style="list-style-type: none"> •Materials will be removed and transported to an appropriate facility
Transformers / Substation Components	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •Metal components to be recycled or disposed of in accordance with current standards and practices <li style="padding-left: 200px;">•Remaining components to be recycled or disposed of in accordance with current standards and practices
Gravel (or other granular)	<ul style="list-style-type: none"> •Gravel and other granular materials will be removed by truck and disposed of in accordance with current standards and practices
Geotextile fabric	<ul style="list-style-type: none"> •Geotextile fabric will be collected and resorted at a reprocessing site
Concrete inverter/transformer foundations	<ul style="list-style-type: none"> •Concrete foundations will be broken down and transported to recycling or approved disposal facility
Cables and wiring	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •Fencing will be removed and transported to a metal recycling facility
Debris	<ul style="list-style-type: none"> •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	NY CDG Monroe 3 LLC SOLAR DECOMMISSIONING	1	Lump Sum	\$539,858.16	\$539,858.16
1.1	Mob / Demob	1	Lump Sum	\$21,400.00	\$21,400.00
1.1.1	Equipment Mob	1	Lump Sum	\$20,300.00	\$20,300.00
1.1.2	Site Facilities	1	Lump Sum	\$1,100.00	\$1,100.00
1.2	Site Facilities	2	Month	\$1,305.00	\$2,610.00
1.3	Field Management	8	Week	\$5,654.82	\$45,238.56
1.4	Utility Tie Removal	1	Lump Sum	\$6,513.40	\$6,513.40
1.4.1	Conductor Removal	100	Linear Feet	\$29.65	\$2,965.34
1.4.2	Utility Pole Removal	3	Each	\$1,182.69	\$3,548.07
1.5	Transformer & Panelboard Removal	2	Each	\$3,592.21	\$7,184.42
1.5.1	Remove Xfmr & Panelboard	2	Each	\$784.42	\$1,568.84
1.5.2	Remove Concrete Pads	2	Each	\$1,432.79	\$2,865.58
1.5.3	Trucking - Per Load	2	Each	\$1,375.00	\$2,750.00
1.6	Solar Array Removal	1	Lump Sum	\$156,183.28	\$156,183.28
1.6.1	Fence Removal	5,895	Linear Feet	\$1.56	\$9,222.62
1.6.2	String Inverter Removal	16	Each	\$395.60	\$6,329.59
1.6.3	Solar Panel Removal	1	Lump Sum	\$72,013.86	\$72,013.86
1.6.4	Solar Rack & Post Removal	1	Lump Sum	\$68,617.21	\$68,617.21
1.7	Ungerground Cable Removal	1	Lump Sum	\$5,673.37	\$5,673.37
1.7.1	Excavate & Remove Conduit/Cable	1	Lump Sum	\$4,298.37	\$4,298.37
1.7.2	Trucking - Per Load	1	Each	\$1,375.00	\$1,375.00
1.8	Site Restoration - Partial Site Seeding	1	Lump Sum	\$38,080.34	\$38,080.34
1.8.1	Restore Roads, Remove Base & Surface Course.	884	Cubic Yard	\$7.78	\$6,875.69
1.8.2	Spot Grade Disturbed Areas	25	Acre	\$248.19	\$6,204.65
1.8.3	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	25	Acre	\$1,000.00	\$25,000.00
1.9	Home Office, Project Management (5% Of Cost)	1	Lump Sum	\$14,144.15	\$14,144.15
1.10	Contractor OH & Fee (13% Of Cost)	1	Lump Sum	\$38,613.64	\$38,613.64
1.11	2% x 20 Year Escalation	1	Lump Sum	\$204,217.00	\$204,217.00

APPENDIX A DECOMMISSIONING COST ESTIMATE

Estimate Summary
TETRA TECH EC, INC.

Job Code: NY CDG Monroe 3 LLC 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	NY CDG MONROE 3 SOLAR DECOMMISSIONING	0.01	Detail	U.S. Dollar	529,030.73	529,030.73
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	2.00 Month	Site Facilities	0.00	Detail	U.S. Dollar	1,305.00	2,610.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
URCONNEX	Connex Box		2.00 Month	U.S. Dollar	150.00	300.00	
UROFFTRL	Office Trailer -12x60		2.00 Month	U.S. Dollar	500.00	1,000.00	
UO1STAI	1st Aid Supplies		2.00 Month	U.S. Dollar	300.00	600.00	
UOOFFSUP	Office Supplies(\$/prs/mo)		2.00 Month	U.S. Dollar	55.00	110.00	
URPRTAJH	Port-a-John Unit(s) (4)		2.00 Month	U.S. Dollar	300.00	600.00	
1.3	8.00 Week	Field Management	0.17	Detail	U.S. Dollar	5,654.82	45,238.56
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L90FXX02	Field - Proj Superintendent	480.00	1.00 Each (hourly)	U.S. Dollar	83.18	39,927.36	
RPUTRK05	F-250 4X4 3/4 TON PICKUP	480.00	1.00 Each (hourly)	U.S. Dollar	11.07	5,311.20	
1.4	1.00 Lump Sum	Utility Tie Remoal	0.80	Detail	U.S. Dollar	6,513.40	6,513.40
1.4.1	100.00 Linear Feet	Conductor Removal	200.00	Detail	U.S. Dollar	29.65	2,965.34
1.4.1.1	1.00 Lump Sum	Cut / Lower Cable, Size & Loadout	2.00	Detail	U.S. Dollar	1,590.34	1,590.34
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	20.00	4.00 Each (hourly)	U.S. Dollar	44.29	885.72	
L010101	OPERATOR	5.00	1.00 Each (hourly)	U.S. Dollar	65.76	328.79	
*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	
1.4.1.2	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,375.00 Each	U.S. Dollar	1.00	1,375.00	
1.4.2	3.00 Each	Utility Pole Removal	4.00	Detail	U.S. Dollar	1,182.69	3,548.07
1.4.2.1	3.00 Each	Cut / Lower Pole	8.00	Detail	U.S. Dollar	362.18	1,086.53
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L060100	GENERAL LABORER	15.00	4.00 Each (hourly)	U.S. Dollar	44.29	664.29	
L010101	OPERATOR	3.75	1.00 Each (hourly)	U.S. Dollar	65.76	246.59	
RHYDCR05	GROVE RT600E 40 TON	3.75	1.00 Each (hourly)	U.S. Dollar	46.84	175.65	
1.4.2.2	3.00 Each	Size & Loadout	8.00	Detail	U.S. Dollar	362.18	1,086.53

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	15.00	4.00 Each (hourly)	U.S. Dollar		44.29	664.29
L010101	OPERATOR	3.75	1.00 Each (hourly)	U.S. Dollar		65.76	246.59
RHYDCR05	GROVE RT600E 40 TON	3.75	1.00 Each (hourly)	U.S. Dollar		46.84	175.65
1.4.2.3	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		1,375.00 Each	U.S. Dollar		1.00	1,375.00
1.5	2.00 Each	Transformer & Panelboard Removal	0.67	Detail	U.S. Dollar	3,592.21	7,184.42
1.5.1	2.00 Each	Remove Xfmr & Panelboard	2.00	Detail	U.S. Dollar	784.42	1,568.84
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	10.00	1.00 Each (hourly)	U.S. Dollar		65.76	657.58
L060100	GENERAL LABORER	10.00	1.00 Each (hourly)	U.S. Dollar		44.29	442.86
RHYDCR05	GROVE RT600E 40 TON	10.00	1.00 Each (hourly)	U.S. Dollar		46.84	468.40
1.5.2	2.00 Each	Remove Concrete Pads	1.00	Detail	U.S. Dollar	1,432.79	2,865.58
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00 Each (hourly)	U.S. Dollar		33.24	664.70
L010101	OPERATOR	20.00	1.00 Each (hourly)	U.S. Dollar		65.76	1,315.16
L060100	GENERAL LABORER	20.00	1.00 Each (hourly)	U.S. Dollar		44.29	885.72
1.5.3	2.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar		1.00	2,750.00
Notes: ***** Assumption: 45,000 lbs per load *****							
1.6	1.00 Lump Sum	Solar Array Removal	0.05	Detail	U.S. Dollar	156,183.28	156,183.28
1.6.1	5,895.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.56	9,222.62
1.6.1.1	5,895.00 Linear Feet	Fence Removal	5,124.80	Detail	U.S. Dollar	1.10	6,472.62
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010101	OPERATOR	34.51	3.00 Each (hourly)	U.S. Dollar		65.76	2,269.22
L060100	GENERAL LABORER	69.02	6.00 Each (hourly)	U.S. Dollar		44.29	3,056.50
RBACKH09	Deere 710J BACKHOE, 1.62CY	34.51	3.00 Each (hourly)	U.S. Dollar		33.24	1,146.90
1.6.1.2	2.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	2,750.00
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
USTRUCKING	Trucking Sub		2,750.00 Each	U.S. Dollar		1.00	2,750.00
Notes: ***** Assumption: 8 lbs per foot fence & posts *****							
1.6.2	16.00 Each	String Inverter Removal	4.44	Detail	U.S. Dollar	395.60	6,329.59
1.6.2.1	16.00 Each	Disconnect Electrical	10.00	Detail	U.S. Dollar	119.31	1,909.01
Resource Code	Description	Hours	Quantity UM	Currency		Unit Cost	Total Cost
L010110	ELECTRICIAN	16.00	1.00 Each (hourly)	U.S. Dollar		63.96	1,023.39
L060100	GENERAL LABORER	16.00	1.00 Each (hourly)	U.S. Dollar		44.29	708.58
RPUTRK05	F-250 4X4 3/4 TON PICKUP	16.00	1.00 Each (hourly)	U.S. Dollar		11.07	177.04
1.6.2.2	16.00 Each	Loadout Inverter & Precast Pad	8.00	Detail	U.S. Dollar	179.10	2,865.58
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
L060100	GENERAL LABORER	20.00	1.00 Each (hourly)	U.S. Dollar		44.29	885.72
L010101	OPERATOR	20.00	1.00 Each (hourly)	U.S. Dollar		65.76	1,315.16
RBACKH09	Deere 710J BACKHOE, 1.62CY	20.00	1.00 Each (hourly)	U.S. Dollar		33.24	664.70
1.6.2.3	1.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	1,375.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		1,375.00 Each	U.S. Dollar	1.00	1,375.00	
1.6.2.4	3.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	60.00	180.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		180.00 Each	U.S. Dollar	1.00	180.00	
1.6.3	1.00 Lump Sum	Solar Panel Removal	0.30	Detail	U.S. Dollar	72,013.86	72,013.86
1.6.3.1	9,932.00 Each	Solar Panel Removal	3,000.00	Detail	U.S. Dollar	2.06	20,448.86
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
RLIFTS05	JCB 508C, 8,000lbs FRKLFT	66.21	2.00 Each (hourly)	U.S. Dollar	21.65	1,433.19	
L010101	OPERATOR	66.21	2.00 Each (hourly)	U.S. Dollar	65.76	4,354.06	
L060100	GENERAL LABORER	331.07	10.00 Each (hourly)	U.S. Dollar	44.29	14,661.62	
Notes: ***** Assumed production: 30 panels per laborer per hour, includes packaging and preparing for shipment offsite. *****							
1.6.3.2	19.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	26,125.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		26,125.00 Each	U.S. Dollar	1.00	26,125.00	
Notes: ***** Assumption: 45,000 lbs per load *****							
1.6.3.3	424.00 Ton	Disposal Cost	0.00	Detail	U.S. Dollar	60.00	25,440.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USDISPOSAL	Disposal Fee's		25,440.00 Each	U.S. Dollar	1.00	25,440.00	
Notes: ***** Assumption: 9,932 modules x 85.3 lbs each *****							
1.6.4	1.00 Lump Sum	Solar Rack & Post Removal	0.10	Detail	U.S. Dollar	68,617.21	68,617.21
1.6.4.1	414.00 Each	Solar Rack & Post Removal	40.00	Detail	U.S. Dollar	132.53	54,867.21
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
L010101	OPERATOR	207.00	2.00 Each (hourly)	U.S. Dollar	65.76	13,611.91	
L060100	GENERAL LABORER	207.00	2.00 Each (hourly)	U.S. Dollar	44.29	9,167.20	
*REXCAV06A	Excav 100K w/ Bucket & Grapple	103.50	1.00 Each (hourly)	U.S. Dollar	124.54	12,889.37	
*REXCAV06E	Excav 100K w/ Shear	103.50	1.00 Each (hourly)	U.S. Dollar	185.50	19,198.73	
Notes: ***** Assumed production: .5 hour per rack per crew. Crew to include 1 excavator w/shear, 1 excavator w/grapple, 2 operators and 2 laborers. Includes post removal and sizing of steel for sale as scrap, and loadout to haul trucks. Quantity assumption: 24 modules per rack assembly *****							
1.6.4.2	10.00 Each	Trucking - Per Load	0.00	Detail	U.S. Dollar	1,375.00	13,750.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USTRUCKING	Trucking Sub		13,750.00 Each	U.S. Dollar	1.00	13,750.00	

Cost Item							
CBS Position Code	Quantity UM	Description	UM/Day	Cost Source	Currency	Unit Cost	Total Cost
Notes: ***** Assumption: 45,000 lbs per load *****							
1.7	1.00 Lump Sum	Site Restoration - Partial Site Seeding	0.16	Detail	U.S. Dollar	38,080.34	38,080.34
1.7.1	884.00 Cubic Yard	Restore Roads, Remove Base & Surface Course.	703.75	Detail	U.S. Dollar	7.78	6,875.69
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*RDOZER08	CAT D6 LGP Dozer	12.56	1.00 Each (hourly)	U.S. Dollar	58.34	732.76	
L010101	OPERATOR	50.25	4.00 Each (hourly)	U.S. Dollar	65.76	3,304.02	
*RFELWH08C	CAT 980 LOADER	12.56	1.00 Each (hourly)	U.S. Dollar	77.43	972.56	
RDUTRK06	CAT D350D, 18CY-24CY	25.12	2.00 Each (hourly)	U.S. Dollar	74.29	1,866.35	
Notes: ***** Assumption: 3,978' of road x 12' width x .5' depth Material hauled offsite and accepted locally as clean fill *****							
1.7.2	25.00 Acre	Spot Grade Disturbed Areas	5.00	Detail	U.S. Dollar	248.19	6,204.65
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
*RDOZER08	CAT D6 LGP Dozer	50.00	1.00 Each (hourly)	U.S. Dollar	58.34	2,916.75	
L010101	OPERATOR	50.00	1.00 Each (hourly)	U.S. Dollar	65.76	3,287.90	
1.7.3	25.00 Acre	Re-Seed With Native Vegetation - Roads & Areas Disturbed By Construction	0.00	Detail	U.S. Dollar	1,000.00	25,000.00
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USLANDSCAPE	Landscape Sub		25.00 Acre	U.S. Dollar	1,000.00	25,000.00	
1.8	1.00 Lump Sum	Home Office, Project Management (5% Of Cost)	0.00	Detail	U.S. Dollar	13,860.50	13,860.50
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP5	5% Markup		277,210.00 Each	U.S. Dollar	0.05	13,860.50	
1.9	1.00 Lump Sum	Contractor OH & Fee (13% Of Cost)	0.00	Detail	U.S. Dollar	37,839.23	37,839.23
Resource Code	Description	Hours	Quantity UM	Currency	Unit Cost	Total Cost	
USMARKUP	13% Markup		291,071.00 Each	U.S. Dollar	0.13	37,839.23	
Report Total:							328,909.73

Category	Total
Labor	103,910.23
Rented Equipment	51,069.78
Supplies	710.00
Subcontract	172,119.73
ODCs	1,100.00