

CHANGE ORDER FORM

Santa Rosa City Schools
Facilities Department
211 Ridgway Avenue
Santa Rosa, CA 95401

CHANGE ORDER NO.:
001

CHANGE ORDER

Project: Maria Carrillo High School

Date: 06/27/18

The following parties agree to the terms of this Change Order:

Owner: Santa Rosa City Schools

Contractor:

Longroad Energy Management
Email:
Tara.dhimitri@longroadenergy.com

Architect: PBK
2520 Venture Oaks Way
Suite 440
Sacramento, CA 95833

Reference	Description	Cost	Days Ext.
CO #1	Remove and replace panels on upper gymnasium	\$ 52,688	0
Requested by:	PBK		
Performed by:	Longroad/Verdant Energy Electrical		
Reason:	Additional repairs to roof area needs panels removed		

Original Contract Amount: \$ 269,110

Amount of Previously Approved Change Order(s): \$0.00

Amount of this Change Order: \$52,688

Contract Amount: \$321,798

The undersigned Contractor approves the foregoing as to the changes, if any, and the Cost, if any, specified for each item and as to the extension of time allowed, if any, for completion of the entire work as stated therein, and agrees to furnish all labor, materials and services and perform all work necessary to complete any additional work specified for the consideration stated therein.

This change order is subject to approval by the governing board of this District and must be signed by the District.

The compensation and time, if any, granted herein represent a full accord and satisfaction for any and all time and cost impacts of the items herein, and Contractor waives any and all further compensation or time extension based on the items herein.

The value of the extra work or changes expressly includes any and all of the Contractors costs and expenses, both direct and indirect, resulting from additional time required on the project or resulting from delay to the project. Any costs, expenses, damages or time extensions not included are deemed waived.

Signatures:

District:

_____ Date _____

Contractor: *Verdon*

Conrad _____ *6/28/18*
Date

Architect:

Shawn LeCrone
Shawn LeCrone

6/27/18
Date

Quotation SH_MC_CB1 for Change Order #01 issued by PBK 5/17/2018

Project Name

Maria Carillo HS- Santa Rosa CA – Solar Remove and Re-install (Public Works)

Change Order Scope

Overall project - 270 kwp Roof Top partial PV Removal and Re-installation; this change order addresses removal and reinstallation of the Gymnasium array Building B1 only, shown on plansets. See page 5 of this document.

Project Duration: – Two week project – 1.0 weeks to remove, 1.0 weeks to re-install.

To: Longroad Energy Management, LLC, a Delaware limited liability company

Attention: Tara Dhimitri - *Director — Commercial Asset Management*

Office: 617.377.4316

Mobile: 202.271.4593

Email: tara.dhimitri@longroadenergy.com

Construction Services

Phase 1: Uninstall Existing Roof PV Array on Gymnasium Building

Summary of Work:

1. Uninstall existing PV Arrays from partial Gymnasium Building only – all PV modules mounted on standing seam roof (Building B1 only).
2. Uninstall necessary electrical Balance of Systems (eBOS, electrical equipment) mounted on the Gymnasium Building roof.
3. All existing material, modules and eBOS, to be secured on the ground during roof repair phase.
4. Coordinate all work with roofers performing concurrent work on site.

Inclusions:

1. De-commissioning assessment of all arrays performed to verify proper VOC and IMP, provide report. This functionality is already provided through existing approved workorder.
2. Provide safety measure for rooftop work including appropriate fall protection.
3. Installation and removal of temporary roofing protection during the construction activities.
4. Provide temporary means of access and egress that is separate from the building roof hatch.
5. Includes all temporary facilities for the construction including, but not limited to, temporary toilets, signage, supervisory staffing, coordination with facility manager and roofers.

6. Contractor loading and unloading existing material from and to the rooftop

Exclusions:

1. Does not include removal of any eBOS not on the roof, e.g. conduit on exterior wall, tie-in gear, etc.
2. Replacement of any PV Array or eBOS found to be damaged not covered by existing product warranty or existing Operation and Maintenance Agreement by owner.
3. Engineering: Perform structural qualification and engineered roof loading plan and/or guideline.
4. Obtain building permit (if required) for removal and re-installation. Owner to provide all necessary drawings.

Phase 2: Re-Install Roof PV Array

Summary of Work:

1. Install PV Array on Gymnasium Building B1 only per issue for record drawing set.
2. Commission system (all arrays) by testing for and verifying proper operation.

Inclusions:

1. Site Prep: Provide utilization and roof staging plan based on engineering structural qualification plan and/or guideline.
2. Assemble modules into operating voltages and string assemblies per record drawing set.
3. Install and manage array wiring detail per record drawing set.
4. Install combiner boxes per record drawing set.
5. Provide safety measure for rooftop work including appropriate fall protection.
6. Installation and removal of temporary roofing protection during the construction activities.
7. Provide temporary means of access and egress that is separate from the building roof hatch.
8. Includes all temporary facilities for the construction including, but not limited to, temporary toilets, dumpsters, signage, supervisory staffing, coordination with facility manager and Target roofers.
9. Provide scheduling and management of labor on site.
10. Fencing intended specifically for the protection of solar equipment.
11. Commission system by testing and verifying proper, VOC and IMP, provide report.

Exclusions:

1. Engineering: Perform structural qualification and engineered roof loading plan and/or guideline.
2. Engineering: system building code upgrade cost required by JHA
3. Furnishing of inverter system or modules.
4. Furnishing new tie-in electrical equipment.
5. Will not raise ballasted post on sleepers, all Buildings.
6. Painting conduit or equipment.
7. Costs associated with roof structural reinforcement/flashing/weather proofing
8. Additional and new PV Array roof anchors
9. Changes due to unforeseen work performed by others

10. Shade structures
11. On-site security personnel.
12. Required replacement of DC cables.

Site Services: Duration of approximately two (2) weeks starting on commencement date (for solar contractor use only). These dates are 1 week at commencement to remove array, one week at end of project to re-install array.

- (1) Gradall
- (1) Forklift
- (2) Lockable Containers
- (1) Temp toilet and wash
- (2) H2O and First Aid
- (4) Fire Extinguisher
- (TBD) fencing
- (qty. TBD) 4'x8'x½" plywood sheet and pallets

Labor- \$39,968

Equipment and Site Services- \$7,440

Raw Material - \$5,280

Permitting- n/a

Grand Total: \$52,688

CHANGES, CLAIMS AND DELAYS

Contractor shall be entitled to make changes in the Work. Subcontractor hereby agrees that any and all changes to the Work, which result in extra cost or time shall be made at a reasonable addition or reduction in the Subcontract Price or by an extension of time. No adjustments in the Subcontract Price or time shall be made unless ordered and approved in writing by Contractor.

WARRANTIES

Subcontractor warrants that the Work shall be of good quality and free from faults and defects and will be installed without defect in workmanship. Subcontractor further agrees to execute and transfer to Contractor and/or Owner all special warranties provided by and/or required of its subcontractors and suppliers by the Contract Documents or manufacturers' warranties prior to final payment.

Payment terms:

- 20% mobilization/decommissioning (first week)
- 40% upon removal of phase
- 40% upon re-install/city final

Remit payment to First Republic Bank, Routing: 321081669 Account: 80000119124
Billing Office: 1107 Wellington, Oakland, CA 94602

Verdant Energy Electric, LLC

Print Name and title:

x Cesar Barbosa - Principal

Signature and date:

x Cesar Barbosa 6/28/2018

Customer

Print Name and title:

x _____

Signature and date:

x _____



Change Proposal Request

Project: Maria Carrillo High School Roof and HVAC Replacement **CPR No.:** 01
6875 Montecito Boulevard
Santa Rosa, California 95409
Santa Rosa City Schools

PBK Project No.: 17307R **Date:** May 17, 2018

To: Longroad Energy **Via:** E-mail
Tara.dhimitri@longroadenergy.com

Attention: Tara Dhimitri

*This is a request for an itemized quotation in the Contract Sum and/or time for the following proposed modifications to the Contract Documents.
This request is not an authorization for changes or additional work and it does not revise the contract price.*

Description of Work:

1. Provide pricing to remove solar panels to allow installation of new roof coating system on roof area B1. Then reinstall solar panels to roof area B1 once new roof coating system is completed.
 - a. Pricing to include material and labor
2. Provide pricing to remove solar panels to allow installation of new roof coating system on roof area B2. Then reinstall solar panels to roof area B2 once new roof coating system is completed.
 - a. Pricing to include material and labor

Attachments: Sheet A1

This change proposal was initiated at the request of the:

<input type="checkbox"/> Owner	<input type="checkbox"/> Architect	<input type="checkbox"/> Engineer	<input checked="" type="checkbox"/> Contractor
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Shawn LeCrone
Vice President

Copies to:
Mike Braff - SRCS
Beth Brose - SRCS
Paul Piscoran - PBK
David Renteria - PBK
File 5B

CHANGE ORDER FORM

Santa Rosa City Schools
Facilities Department
211 Ridgway Avenue
Santa Rosa, CA 95401

CHANGE ORDER NO.:
002

CHANGE ORDER

Project: Elsie Allen High School

Date: 7/17/18

The following parties agree to the terms of this Change Order:

Owner: Santa Rosa City Schools

Contractor:

Longroad Energy Management
Email:
Tara.dhimitri@longroadenergy.com

Architect:

PBK
2520 Venture Oaks Way
Suite 440
Sacramento, CA 95833

Reference	Description	Cost	Days Ext.
PCO #	Credit for remove and replace panels at roof area A	-\$ 52,332	0
Requested by:	PBK		
Performed by:	Longroad/Verdant Energy Electrical		
Reason:	VE to allow roof repairs without removing panels		
PCO #	Remove and replace panels at roof area D	\$ 165,724	0
Requested by:	PBK		
Performed by:	Longroad/Verdant Energy Electrical		
Reason:	Additional roof replacement to be performed		

Original Contract Amount: \$ 269,100

Amount of Previously Approved Change Order(s): \$52,688

Amount of this Change Order: \$113,392

Contract Amount: \$429,180

The undersigned Contractor approves the foregoing as to the changes, if any, and the Cost, if any, specified for each item and as to the extension of time allowed, if any, for completion of the entire work as stated therein, and agrees to furnish all labor, materials and services and perform all work necessary to complete any additional work specified for the consideration stated therein.

This change order is subject to approval by the governing board of this District and must be signed by the District.

The compensation and time, if any, granted herein represent a full accord and satisfaction for any and all time and cost impacts of the items herein, and Contractor waives any and all further compensation or time extension based on the items herein.

The value of the extra work or changes expressly includes any and all of the Contractors costs and expenses, both direct and indirect, resulting from additional time required on the project or resulting from delay to the project. Any costs, expenses, damages or time extensions not included are deemed waived.

Signatures:

District:

Contractor:

Date

Date

Architect:



Shawn LeCrone



Date

END OF SECTION 00 06 80

Quotation SH_EA_A2CR for Change Order #01 issued by PBK 6/20/2018 6/22/2018

Project Name

Elsie Allen HS- Santa Rosa CA – Solar Remove and Re-install (Public Works)

Change Order Scope

Overall project - 270 kwp Roof Top partial PV Removal and Re-installation; this change order addresses a credit for not performing the removal and reinstallation of the A2 Building only.

This change order is a credit in the event the activity to remove and install the A2 Building array is no longer needed. The change order is a credit to the original quotation issued 4/13/2018 in the amount of \$269,110. See page 3 of this document for actual Change Order CPR #01 and the activities this quotation pertains to.

Project Duration: – Two week project – 1.0 weeks to remove, 1.0 weeks to re-install.

To: Longroad Energy Management, LLC, a Delaware limited liability company

Attention: Tara Dhimitri - *Director — Commercial Asset Management*

Office: 617.377.4316

Mobile: 202.271.4593

Email: tara.dhimitri@longroadenergy.com

Construction Services

None – this is a credit for not performing the work required on Building A2

Credit Amounts:

Total: \$52,332

Verdant Energy Electric, LLC

Print Name and title:

x _____

Signature and date:

x _____

Customer

Print Name and title:

x _____

Signature and date:

x _____

From CPR #01 dated June 20, 2018 and signed by Shawn LeCrone:

- 1) *Provide credit to remove solar panels to allow installation of new roof system at roof area A2, then reinstall solar panels at proper height for new roof elevation.*
 - a) *Pricing to include material and labor*

Quotation SH_EA_CD_R1.1 for Change Order #01 issued by PBK 6/20/2018

Project Name

Elsie Allen HS- Santa Rosa CA – Solar Remove and Re-install (Public Works)

Change Order Scope

Overall project - 270 kwp Roof Top partial PV Removal and Re-installation; this change order addresses removal and reinstallation of the Building D Upper and Lower roof areas only, shown on plansets. See page 5 of this document.

Project Duration: – Four week project – 2.0 weeks to remove, 2.0 weeks to re-install.

To: Longroad Energy Management, LLC, a Delaware limited liability company

Attention: Tara Dhimitri - *Director — Commercial Asset Management*

Office: 617.377.4316

Mobile: 202.271.4593

Email: tara.dhimitri@longroadenergy.com

Construction Services

Phase 1: Uninstall Existing Roof PV Array on Building D Upper and Lower Roofs

Summary of Work:

1. Uninstall existing PV Arrays from partial Building D Upper and Lower Roofs only – all PV modules mounted on the roof racking structure.
2. Uninstall necessary electrical Balance of Systems (eBOS, electrical equipment) mounted on the Building D Upper and Lower roofs.
3. All existing material, modules and eBOS, to be secured on the ground during roof repair phase.
4. Coordinate all work with roofers performing concurrent work on site.

Upper Roof (1 week remove, 1 week set extensions, 2 week reinstall)

- removing modules and racking(leaving posts)
- extend the posts 6.5" to achieve 8" of space between racking and roof
- **Excluded (performed by other):** modify horizontal/cross bracing to be 2" above threading

Lower Roof (1 week remove, 1 week reinstall)

- Remove modules only
- **Excluded (performed by other):** modify horizontal/cross bracing to be 2" above threading

Inclusions:

1. De-commissioning assessment of all arrays performed to verify proper VOC and IMP, provide report. This functionality is already provided through existing approved workorder.
2. Provide safety measure for rooftop work including appropriate fall protection.
3. Installation and removal of temporary roofing protection during the construction activities.
4. Provide temporary means of access and egress that is separate from the building roof hatch.
5. Includes all temporary facilities for the construction including, but not limited to, temporary toilets, signage, supervisory staffing, coordination with facility manager and roofers.
6. Contractor loading and unloading existing material from and to the rooftop

Other Exclusions:

1. Does not include removal of any eBOS not on the roof, e.g. conduit on exterior wall, tie-in gear, etc.
2. Replacement of any PV Array or eBOS found to be damaged not covered by existing product warranty or existing Operation and Maintenance Agreement by owner.
3. Engineering: Perform structural qualification and engineered roof loading plan and/or guideline.
4. Obtain building permit (if required) for removal and re-installation. Owner to provide all necessary drawings.

Phase 2: Re-Install Roof PV Array**Summary of Work:**

1. Install PV Array on Building D Upper and Lower Roofs only per issue for record drawing set.
2. Commission system (all arrays) by testing for and verifying proper operation.

Inclusions:

1. Site Prep: Provide utilization and roof staging plan based on engineering structural qualification plan and/or guideline.
2. Assemble modules into operating voltages and string assemblies per record drawing set.
3. Install and manage array wiring detail per record drawing set.
4. Install combiner boxes per record drawing set.
5. Provide safety measure for rooftop work including appropriate fall protection.
6. Installation and removal of temporary roofing protection during the construction activities.
7. Provide temporary means of access and egress that is separate from the building roof hatch.
8. Includes all temporary facilities for the construction including, but not limited to, temporary toilets, dumpsters, signage, supervisory staffing, coordination with facility manager and Target roofers.
9. Provide scheduling and management of labor on site.
10. Fencing intended specifically for the protection of solar equipment.

11. Commission system by testing and verifying proper, VOC and IMP, provide report.

Exclusions:

1. Engineering: Perform structural qualification and engineered roof loading plan and/or guideline.
2. Engineering: system building code upgrade cost required by JHA
3. Furnishing of inverter system or modules.
4. Furnishing new tie-in electrical equipment.
5. Will not raise ballasted post on sleepers.
6. Painting conduit or equipment.
7. Costs associated with roof structural reinforcement/flashing/weather proofing
8. Additional and new PV Array roof anchors
9. Changes due to unforeseen work performed by others
10. Shade structures
11. On-site security personnel.
12. Required replacement of DC cables.

Site Services: Duration of approximately four (4) weeks starting on commencement date (for solar contractor use only). These dates are 2 weeks at commencement to remove arrays and install extensions where required, two weeks at end of project roofing phase to re-install array.

- (1) Gradall
- (1) Forklift
- (2) Lockable Containers
- (1) Temp toilet and wash
- (2) H2O and First Aid
- (4) Fire Extinguisher
- (TBD) fencing
- (qty. TBD) 4'x8'x½" plywood sheet and pallets

Labor- \$143,061

Equipment and Site Services- \$11,732

Raw Material - \$10,931

Permitting- n/a

Grand Total: \$165,724

CHANGES, CLAIMS AND DELAYS

Contractor shall be entitled to make changes in the Work. Subcontractor hereby agrees that any and all changes to the Work, which result in extra cost or time shall be made at a reasonable addition or reduction in the Subcontract Price or

by an extension of time. No adjustments in the Subcontract Price or time shall be made unless ordered and approved in writing by Contractor.

WARRANTIES

Subcontractor warrants that the Work shall be of good quality and free from faults and defects and will be installed without defect in workmanship. Subcontractor further agrees to execute and transfer to Contractor and/or Owner all special warranties provided by and/or required of its subcontractors and suppliers by the Contract Documents or manufacturers' warranties prior to final payment.

Payment terms:

20% mobilization/decommissioning (first week)

40% upon removal of phase

40% upon re-install/city final

Remit payment to First Republic Bank, Routing: 321081669 Account: 80000119124
Billing Office: 1107 Wellington, Oakland, CA 94602

Verdant Energy Electric, LLC

Print Name and title:

x _____

Signature and date:

x _____

Customer

Print Name and title:

x _____

Signature and date:

x _____

From CPR #01 dated June 20, 2018 and signed by Shawn LeCrone:

- 2) *Provide pricing to remove solar panels to allow installation of new roof system at the upper and lower roof area D, then reinstall solar panels at proper height for new roof elevation.*
 - a) *Pricing to include material and labor*