

March 2, 2012

Oregon Public Utilities Commission 550 Capital St NE #215 PO Box 2148 Salem, OR 97308-2148

RE: EXPIDITED REQUEST for a waiver of the 12-month installation requirement (OAR 860-084-2010 (1) for the Portland General Electric (PGE) Solar Payment Program.

To Whom It May Concern:

Tanner Creek Energy is submitting this request on behalf of Grand Central Bakery which has a Portland General Electric Solar Payment Program reservation (8E3973) and a system completion date of April 12, 2012.

Specifically, we are asking for a 30-day extension to each application to allow time for system completion.

General Information

It is a 10kW roof mounted system will be located on the roof of the Grand Central Bakery Sawtooth building located at 2249 NW York, Portland, OR 97210.

Circumstances in Request

All things being equal, we are very confident in our ability to install the system in a timely manner. However, here were a few minor delays during the previous 12 months which, when added together, have caused us concern over timing. With our experience in the building and electrical permit process for this jurisdiction (City of Portland) along with the possibility of inclement weather during installation we feel a small extension is the prudent path for the ratepayer. These delays included the customer desire to see the results of the BETC rulemaking process. A favorable BETC process would have allowed them to build a larger system. But in the last few weeks, it became apparent that the new BETC rules were going to be very difficult. In addition, the building presented some unanticipated structural challenges which required glue-lam upgrades to the roof joists.

The following work has been completed:
Interconnection application (attached)
System design (attached)
Structural engineering review (attached)
Permit applications (attached)
Structural upgrade quote (attached)
Contract documents signed, down payment made (confidential)

We are hoping that these circumstances and along with the short extension request will help the commission find in our favor.

Please let us know if any further information would be helpful in your evaluation of our request.

On behalf of Grand Central Bakery,

Respectfully submitted,

Alan Hickenbottom General Manager, Energy Services Group

Solar Payment Option System Application for Level 1 Interconnection



(Applies to a photovoltaic system with 25 kW or less DC nameplate capacity)

Customer Information:	
Tracking No. (provided with notification	n of Capacity Reservation Date): 8E3973
Name: BEN DAY	
Company Name (if applicable): GRA	ND CENTRAL BAKING
Mailing Address: 2249 NW YORK S	
	State: OR Zip Code: 97210
Daytime Telephone: 503-808-8860	Cell/Evening:
E-Mail: B.DAVIS@GRANDCENTF	
Facility Information:	
÷	1 (C. DORLUB 553552-437709
	l occur (from PGE bill): 553552-437709
Estimated Commissioning Date (when sy	ystem will pass local authority inspection):
Location (if different from Applicant'	's address listed above):
Street Address: SAME	
City:	State: Zip Code:
Service Voltage: 480/277 Volts	State: Zip Code: 3-Phase
Generator Nameplate Capacity (STC k)	W total for all panels): 10 DC k
Swatam Installan Information (west)	La au Finance Tours Tours A. All. S.
System Installer Information (must be a children on E	
Company Name: CHRISTENSON E	LECTRIC
Contact Name: MAT ELMORE	
Contractor License No. 458	Electrical Supervisor:
Mailing Address: 111 SW COLUMBIA	ST. SUITE 480
City: PORTLAND	State: OR Zip Code: 97201
Office Telephone: 503-892-5726	Cell: 503-333-5578
E-Mail: MAT.ELMORE@CHRISTEI	

(Continued on next page)

SOLAR PAYMENT OPTION SYSTEM APPLICATION FOR LEVEL 1 INTERCONNECTION Page 1 of 3

Inverter Information:			
Inverter Manufacturer: SOLECTRIA	Model: PVI 10K	W	•
Total Number of Inverters: 1	Max. Capacity per	Inverter: 10	AC kW output
Phase: Single Three	Inverter Output V		AC Volts
Inverter specifications sheet (manufact Note: If inverter is not lab-certified by then a Level 3 Interconnection Applica	a Nationally Recogn	ized Testing Laboi	ratory (NRTL),
Additional Documents:	•		
Disconnect Determination. Does AC generation capacity	Service Type		t Allowed without a
exceed 30 amps (see chart)?	240 Volts, Single-Phase,		***************************************
, , , , , , , , , , , , , , , , , , ,	120/208 Volts, 3-Phase,	4 Wire: 10.5 kW	
yes	120/240 Volts, 3-Phase 4	4 Wire: 12.5 kW	
no l	277/480 Volts, 3-Phase 4	4 Wire: 25,0 kW	
If yes, your site requires a readily accessible require two drawings: i) a one-line electrical diagram meter, including new production ii) a site plan showing to-scale meter, and new PGE production other arrangements have been in	showing full circuin meter, disconnect, the proposed location meter. Distance is t	t from solar panel all protective dev n of the disconnec	s to existing PGE ices, etc., and et, existing PGE
Estimated Energy Generation: Systems applying for participation in the Steps than existing service's annual usage. PGE based upon the rolling average of thr	If annual usage is un	available, it will b similarly situated	e estimated by
Annual kilowatt-hours (kWh) production with the methodologies used by the Energy System Production Estimates	Trust of Oregon and ti	he Oregon Departme	

The eligible system is limited to 90 percent of the electric site's previous usage. You can find information about approximate expected generation by visiting the Energy Trust of Oregon web site at http://energytrust.org/shared-resources/solar-calculator/. The solar calculator helps you determine how much electricity you can expect to produce, although your Energy Trust Trade Ally will provide a more accurate estimate to complete this application.

Customer Consent to Data Release

I hereby acknowledge and agree that PGE may release information concerning my participation in the Pilot to the Oregon Department of Revenue, the Oregon Department of Energy, the Oregon Public Utility Commission and the Energy Trust of Oregon. PGE shall use reasonable efforts to pursue appropriate confidentiality terms with the above agencies and organizations.

Customer Signature:

I hereby attest that the information submitted on this application is accurate to the best of my knowledge. I certify that the system is to be constructed from new components and compliant with Oregon Public Utility Commission quality and reliability requirements for photovoltaic systems. I also certify that the system will be first operational and online after July 1, 2010.

Applicant Signature:

Date:

Title (if applicable):

Printed Name:

Mail Completed Interconnection Application to:

PGE Solar Payment Option PO Box 4079 Portland, OR 97208-4079

Interconnection Application Receipt Acknowledgement:

Receipt of a completed application is hereby acknowledged.

Approval for a Level 1 Solar Payment Option System interconnection is contingent upon the Applicant's Generator Facility passing the Level 1 screens and completing the review process set forth in OPUC Rule AR 538, Division 084 and is not granted by the utility's receipt acknowledgement signature on this Application Form. The Applicant will be notified within ten (10) business days of receipt of this acknowledgment whether the interconnection application is approved or denied.

Utility Signature:	Date:
Printed Name:	_ Title:
Interconnection Application Approval:	
Utility Signature:	Date:
Printed Name	Titles

SOLAR PAYMENT OPTION SYSTEM
APPLICATION FOR LEVEL 1 INTERCONNECTION
Page 3 of 3

i 1.

		•

COMMERCIAL INVERTERS

PVI 10KW PVI 13KW PVI 15KW

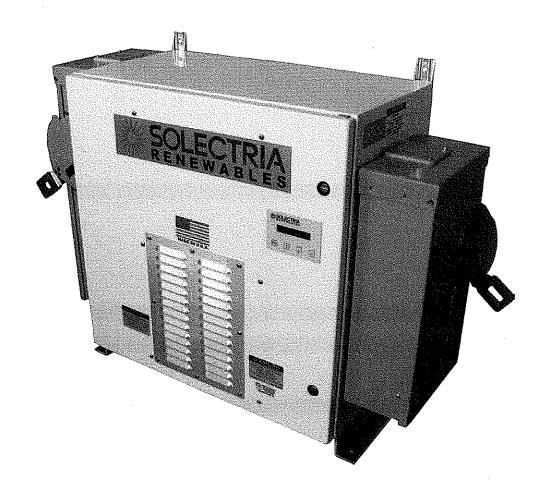
FEATURES

- Smallest true 3-Phast Invester
- Industrial grade
- Then simmer is misted
- 208 VAC, 240 VAC, 480 VAC or 600 VA
- o MODEUS communications
- Useramieraciive LCD alsolav
- Ground or wall mount
 configurations

OPTIONS:

- Integrated DC fused string combiner
- Rogward facing disconnects
- Web-lossed monitoring





COMMERCIAL INVERTERS

Popular among schools and small business customers, Solectria Renewables' PVI 10KW, PVI 13KW, and PVI 15KW inverters are the smallest true three-phase PV Inverter series in the industry. This series of commercial grade inverters is available in 208 VAC, 240 VAC, 480 VAC, and 600 VAC versions and comes standard with integrated AC and DC disconnects, LCD display, and monitoring gateway. Options include an integrated 5 to 7 position fused string combiner, forward facing disconnects, and web-based monitoring.





SPECIFICATIONS		PVI 10KW	PVI 13KW	PVI 15KW
DGInpti				
Absolute Maximum Input Voltage			475 VDC	
MPPT Input Voltage Range			205-385 VDC	
Maximum Operating Input Current		52 A	69 A	77 A
ACO dipute				
Nominal Output Voltage		20	98, 240, 480 or 600 VAC, 3-P -12%/+10%	'B
AC Voltage Range (Standard) Continuous Output Power	200/240/400/400/400	10 kW	-12%/+10% 13.2 kW	15 kW
Continuous Output rower	208/240/480/600 VAC 208 VAC	10 kw 28 A	37 A	42 A
	240 VAC	24 A	37 A 32 A	36 A
Continuous Output Current	480 VAC	12 A	16 A	18 A
	600 VAC	9.6 A	12.7 A	14,4 A
Maximum Backfeed Current	000 17(0		0 A	*****
Nominal Output Frequency	i e		60 Hz	
Output Frequency Range		<u> </u>	59.3-60.5 Hz	
Power Factor			Unity, >0.99	
Total Harmonic Distortion (THD)		L	<5%	
Efficiency				
Peak Efficiency		95.6%	95.8%	95.8%
	208 VAC	<u></u> ' '	94.0%	94.0%
CEC Efficiency	480 VAC		94.5%	94,5%
#	208 VAC		4 W	· · · · · · · · · · · · · · · · · · ·
	240 VAC		4 W	
Tare Loss	480 VAC		5 W	
	600 VAC	1	7W	
String Combiner Options 5, 6 or 7 Fused Positions			8 A, 10 A, 12 A or 15 A	
Temperature Ambient Temperature Range (full power)		-4	0°F to +122°F (-40°C to +50°	C)
Storage Temperature Range		-4	0°F to +158°F (-40°C to +70°	C)
Relative Humidity (non-condensing)	and an extension of the second		5-95%	
Monitoring Options				
Web-based Monitoring (Inverter Direct)	The state of the s		SolrenView	
Revenue Grade Monitoring			External	
Third Party Compatibility			Standard via MODBUS	
Testing & Certifications				
Safety Listings & Certifications			EE 1547.1, IEEE 62.41.2, IEEE SA C22.2#107.1, FCC part 15	
Testing Agency			ETL	
Warranty Standard			5 year	
Optional		10, 15, 2	0 year; extended service ag	reement
Enclosure		64-	adard fully interested (mal)
AC/DC Disconnects		Star	ndard, fully-integrated (inter Standard, fully-integrated	rial)
AC/DC Disconnects Dimensions (H x W x D) Dimensions with forward facing disconnects (H x W x E	n		Standard, runy-integrated n. x 13.6 in. (660 mm x 876 n x 13.6 in. (660 mm x 1194 n	
Weight	'	364 lbs (165 kg)	376 lbs (171 kg)	398 lbs (181 kg)
Enclosure Rating			NEMA 3R	
Enclosure Finish		Polyester pov	vder coated steel; Optional s	tainless steel







111 SW Fifth Avenue Suite 2500 Portland, OR 97204 (503) 227-3251 (503) 227-7980 FAX

(Printed Name and Title)

AGREEMENT FOR PROFESSIONAL SERVICES

DATE: February 16, 201	2	JOB NUMBER:	212041
CLIENT:	Christenson Electric, Inc	>.	
PROJECT NAME:	Grand Central Bakery –	Roof PV Installation	
LOCATION:	Portland, OR		
SCOPE OF SERVICES:	Reference attached prop	oosal	
SPECIAL CONDITIONS:	N/A		
FEE:	\$2,200		
Offered By (KPFF, Inc.)		Accepted by (Christ	enson Electric)
	55,	MKZ	m
(Signature)	á	(Signature)	
Josh Richards, S.E. / Associ	ciate	Jeff Zimmerman	? 17

Please sign in the space provided and return to our office for our signature. We will return a fully executed copy of the Agreement to you for your records.

(Printed Name and Title)

PHOTOVOLTAIC SYSTEM GRAND CENTRAL BAKING COMPANY **2249 NW YORK** PORTLAND, OREGON 97210

OWNER

GRAND CENTRAL BAKING COMPANY 2249 NW YORK PORTLAND, OREGON 97210 503.808.9860

PROJECT MANAGER

CHRISTENSON ELECTRIC 111 SW COLUMBIA, SUITE 480 PORTLAND, OREGON 97201 503.419.3330

GENERAL/ELECTRICAL CONTRACTOR

CHRISTENSON ELECTRIC 111 SW COLUMBIA, SUITE 480 PORTLAND, OREGON 97201 503.419.3330

STRUCTURAL ENGINEER

KPFF CONSULTING ENGINEERS 111 SW FIFTH AVENUE, SUITE 2500 PORTLAND, OREGON 97204 503.227.3251

SYSTEM DESIGN

TANNER CREEK ENERGY 111 SW COLUMBIA, SUITE 480 PORTLAND, OREGON 97201 503.892.5726

SYSTEM DESCRIPTION

(44) SOLARWORLD 225 POLY PV MODULES (1) POWER-ONE AURORA TRIO 10kW INVERTER 9,900 WATTS DC STC

SCOPE OF WORK

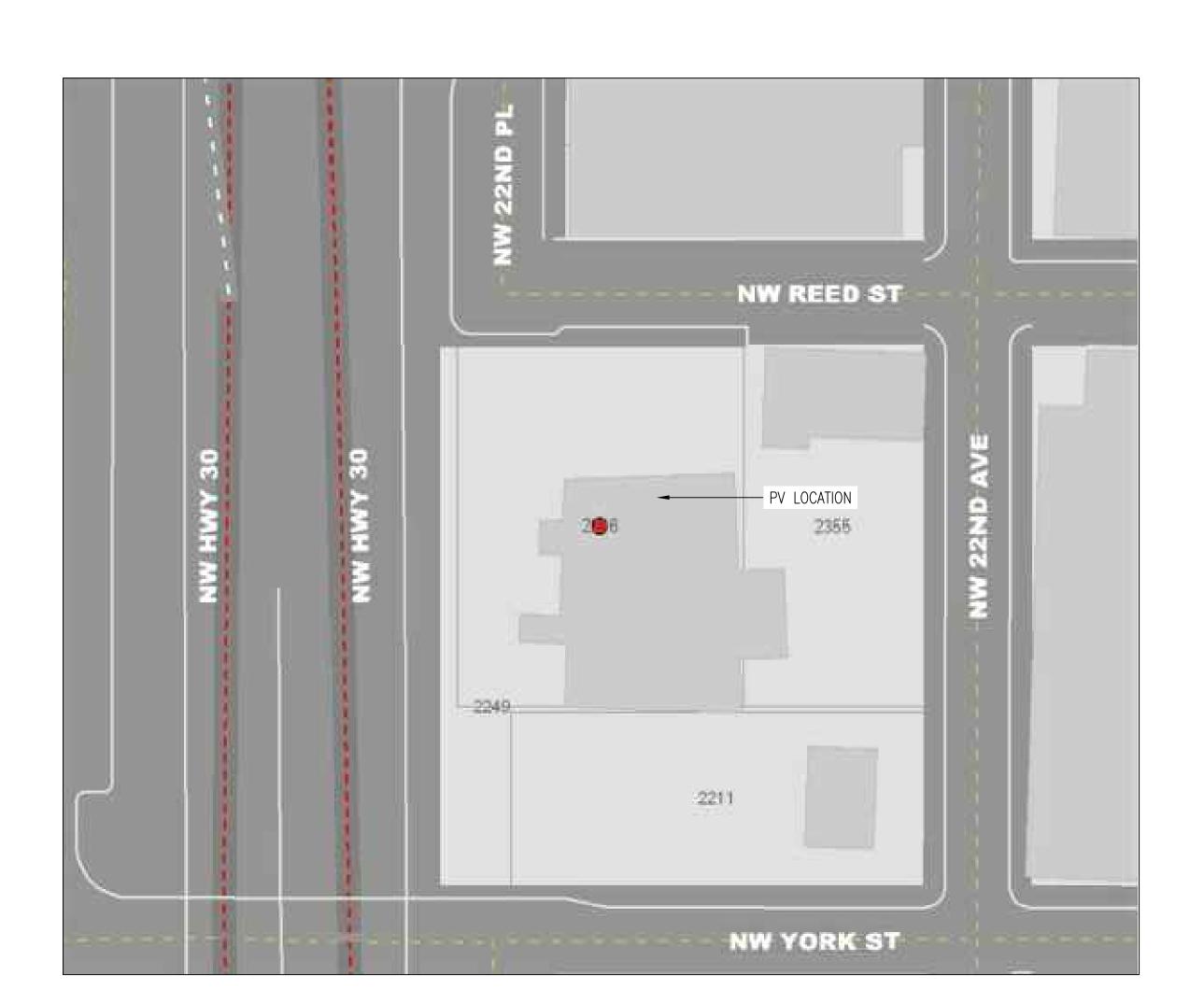
THE PROJECT SCOPE INCLUDES THE DESIGN AND INSTALLATION OF A 9,900 W DC GRID-TIED SOLAR PHOTOVOLTAIC (PV) SYSTEM AT GRAND CENTRAL BAKING COMPANY IN PORTLAND, OREGON.

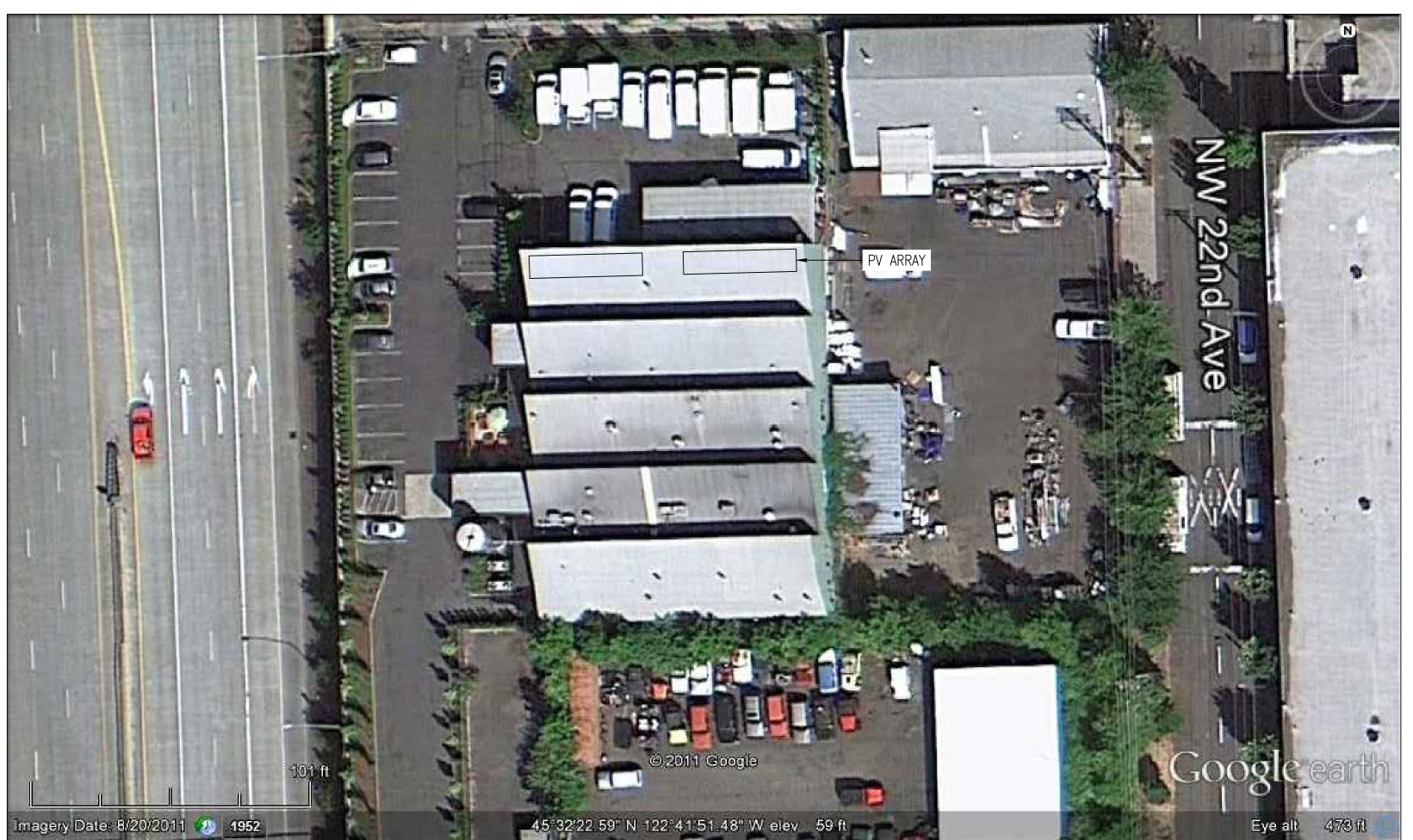
THE PV SYSTEM CONSISTS OF ONE NON-COMBUSTIBLE ROOF MOUNTED SOLAR ARRAY, ONE INVERTER AND RELATED ELECTRICAL EQUIPMENT.

DURING DAYLIGHT HOURS THIS PV SYSTEM WILL PROVIDE ELECTRICITY IN PARALLEL WITH THE LOCAL ELECTRIC UTILITY SERVICE PROVIDER.

ALL EQUIPMENT WILL BE INSTALLED AS REQUIRED BY APPLICABLE CODES (2010 OREGON SOLAR INSTALLATION SPECIALTY CODE) AND PORTLAND GENERAL ELECTRIC SOLAR PAYMENT REQUIREMENTS.

	SHEET LIST TABLE
T	TITLE PAGE & SITE PLAN
Α	LAYOUT & ELEVATION
E.1	ELECTRICAL NOTES & PLAN
E.2	ELECTRICAL DIAGRAM
E.3	SIGNAGE
S.1	RACKING SUPPORT
S.2	RAIL & MODULE LAYOUT
S.3	RACKING DETAILS







Sheet Number:

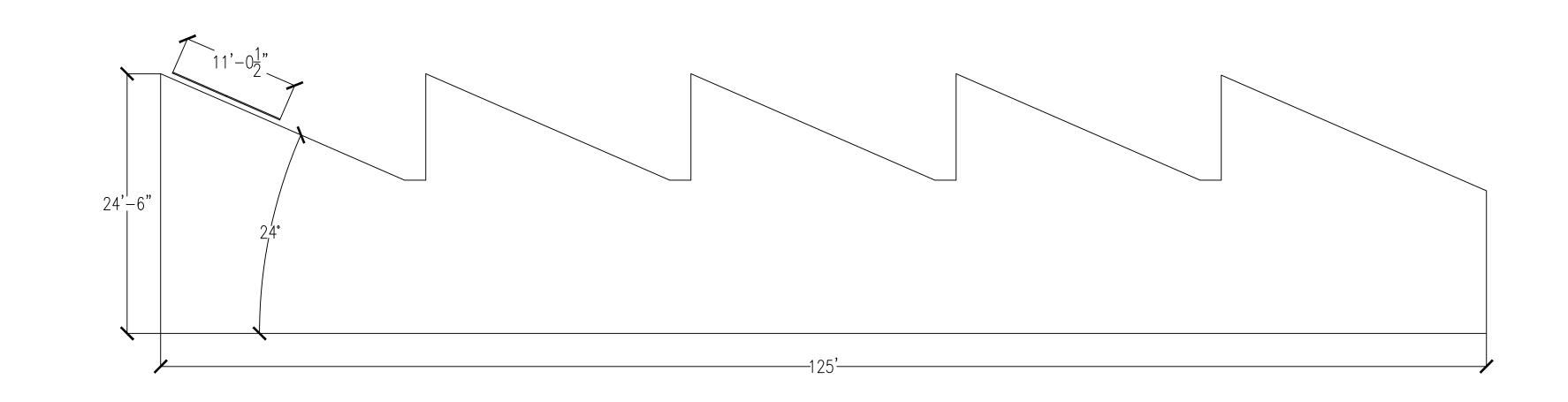
Project Type:

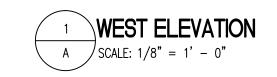
CENTRAL BAKING COMPANY IOTOVOLTAIC PROJECT GRAND

TITLE PAGE + SITE PLAN

CEI Project No. Designed By: Drawn By: Checked By:

SYSTEM DESCRIPTION						
MODULE TYPE	SOLARWORLD 225 POLY					
QUANTITY	44 MODULES					
SYSTEM SIZE	9.9 kW DC STC					
TILT ANGLE	24°					
AZIMUTH	180°					
INVERTER	POWER-ONE AURORA TRIO 10kW					

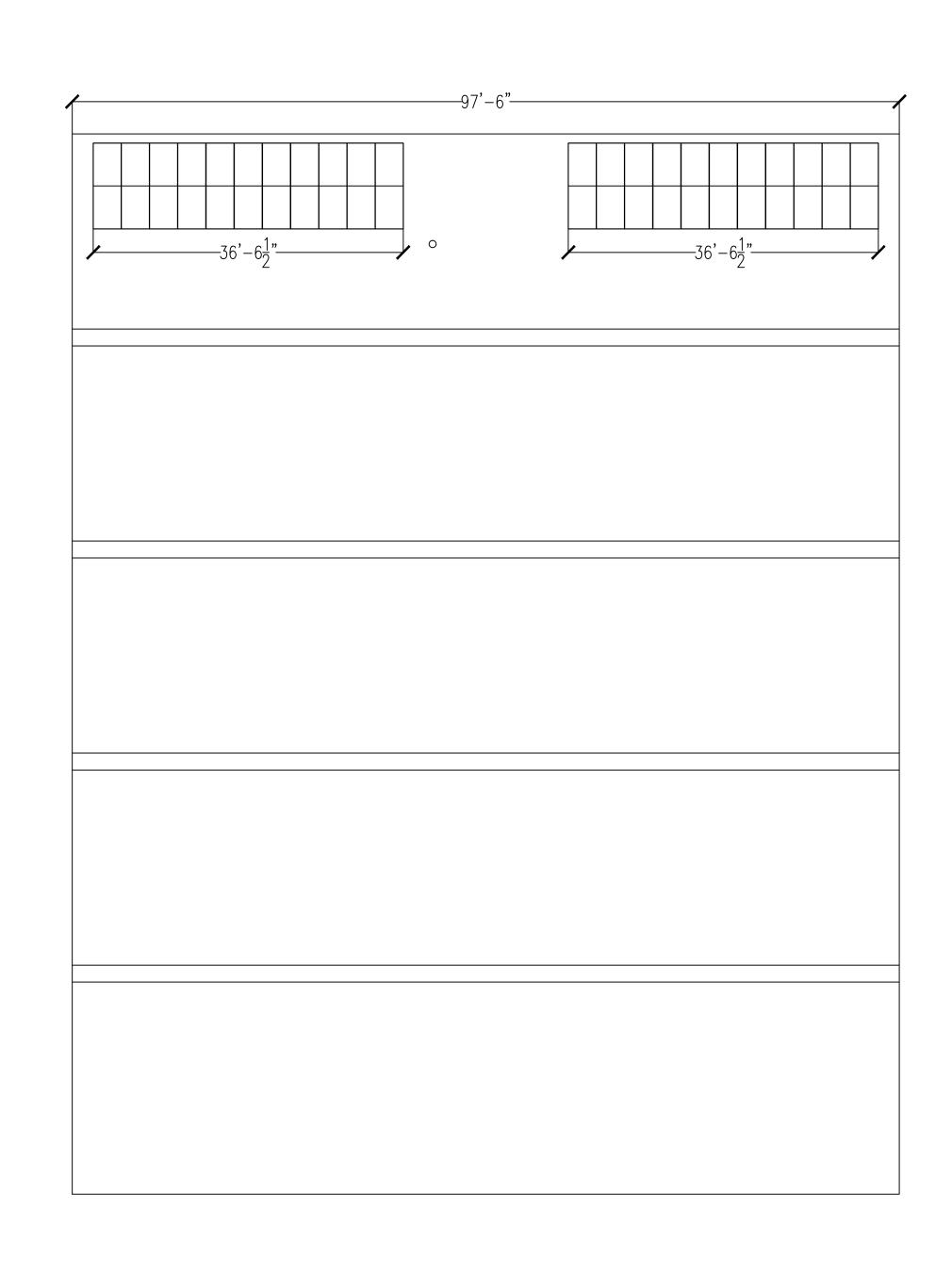




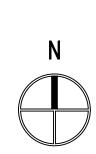












ELECTRICAL, POWER & TECHNOLOGY SERV 111 SW Columbia Street, Ste 480 Portland, OR 97201 main 503.419.3333 www.christenson.com

Revisions:

GRAND CENTRAL BAKING COMPANY
PHOTOVOLTAIC PROJECT
2249 NW York
Portland, Oregon 97210

Sheet Title:

LAYOUT +

ELEVATION

Date: 02/24/2012
CEI Project No.
CEI Project Manager: JZ
Designed By: KK
Drawn By: KK
Checked By:
Project Type: 230

Sheet Number:

DESIGN

A

SYSTEM DESCRIPTION

1 ARRAY, 44 MODULES TOTAL

1 INVERTER (POWER-ONE AURORA TRIO 10kW) - 480VAC/14A)

SIZE - 9,900 W DC STC

EST. ANNUAL PRODUCTION - 11,508 KWh AC

SOURCE CIRCUIT

PHOTOVOLTAIC MODULE:

SOLARWORLD 225 POLY, 225 W STC

Voc = 36.8V (40.7V @ $-6^{\circ}C$ - ASHRAE MEAN EXTREME LOW TEMP) Vmp = 29.5V (23V @ $36^{\circ}C$ - ASHRAE 0.4% HIGH TEMP)

lsc = 8.17A

Imp = 7.63A

PHOTOVOLTAIC ARRAY

44 MODULES, 11 MODULES/STRING (4 STRINGS TOTAL)

 $Voc = 447.5V @ -6^{\circ}C$

Vmp = 324.5V TYPICAL (252.9V @ 36°C)

lsc = 8.17A

Imp = 7.63A

OUTPUT CIRCUITS

- MODULES MOUNTED TO PROSOLAR RACKING SYSTEM ON CUSTOM GROUND MOUNT SYSTEM.
- INVERTER WITH DC DISCONNECT & AC DISCONNECT MOUNTED OUTSIDE ON NORTH WALL OPPOSITE OF SWITCHGEAR INSIDE (UTILITY METER AT SWITCHGEAR).
- INVERTER OUTPUT CONDUIT ROUTED TO UTILITY REQUIRED PV PRODUCTION METER ADJACENT TO INVERTER.
- POINT OF COMMON CONNECTION (POCC) AT CIRCUIT BREAKER IN SWITCHGEAR.

ELECTRICAL NOTES FOR NEW PV SYSTEM

- THIS PROPOSED SOLAR ELECTRIC SYSTEM IS INTENDED TO
 OPERATE IN PARALLEL DURING THE DAY WITH POWER RECEIVED
 FROM THE UTILITY SERVICE PROVIDER.
- ALL EQUIPMENT IS UL APPROVED AND IDENTIFIED FOR USE IN THE PV SYSTEM.
- THIS SYSTEM IS INTENDED TO CONNECT TO THE EXISTING FACILITY POWER SYSTEM AT ONE POINT, POINT OF COMMON COUPLING (POCC). THIS CONNECTION SHALL BE IN COMPLIANCE WITH THE NEC ARTICLE 705.12 "POINT OF CONNECTION".

WIRING + WIRING METHODS

ALL WIRING METHODS AND INSTALLATION PRACTICES CONFORM TO THE NATIONAL ELECTRIC CODE, OREGON SOLAR INSTALLATION SPECIALTY CODE, AND OTHER APPLICABLE LOCAL CODES.

GROUNDING

SEE E.2 — ELECTRICAL DIAGRAM FOR MORE GROUNDING INFORMATION.

GROUND FAULT PROTECTION

PHOTOVOLTAIC INVERTERS ARE EQUIPPED WITH DC GROUND FAULT PROTECTION TO REDUCE FIRE HAZARDS. INVERTERS ARE ALSO EQUIPPED WITH ANTI-ISLANDING CIRCUITRY.

DISCONNECTING MEANS

MEANS ARE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER CONDUCTORS AT THE LOCATION.

REQUIRED SAFETY SWITCHES, LABELS + MARKINGS

REQUIRED SAFETY SIGNS AND LABELS ARE PERMANENTLY ATTACHED BY ADHESIVE, OR OTHER MECHANICAL MEANS. LABELS COMPLY WITH ARTICLE 690 OF THE NEC OR OTHER APPLICABLE STATE AND LOCAL CODES. SEE E.3 FOR MORE DETAILS.

SYSTEM DESCRIPTION

SOLARWORLD 225 POLY

44 MODULES

(4) TOTAL

(1) TOTAL

(1) TOTAL

MODULE TYPE

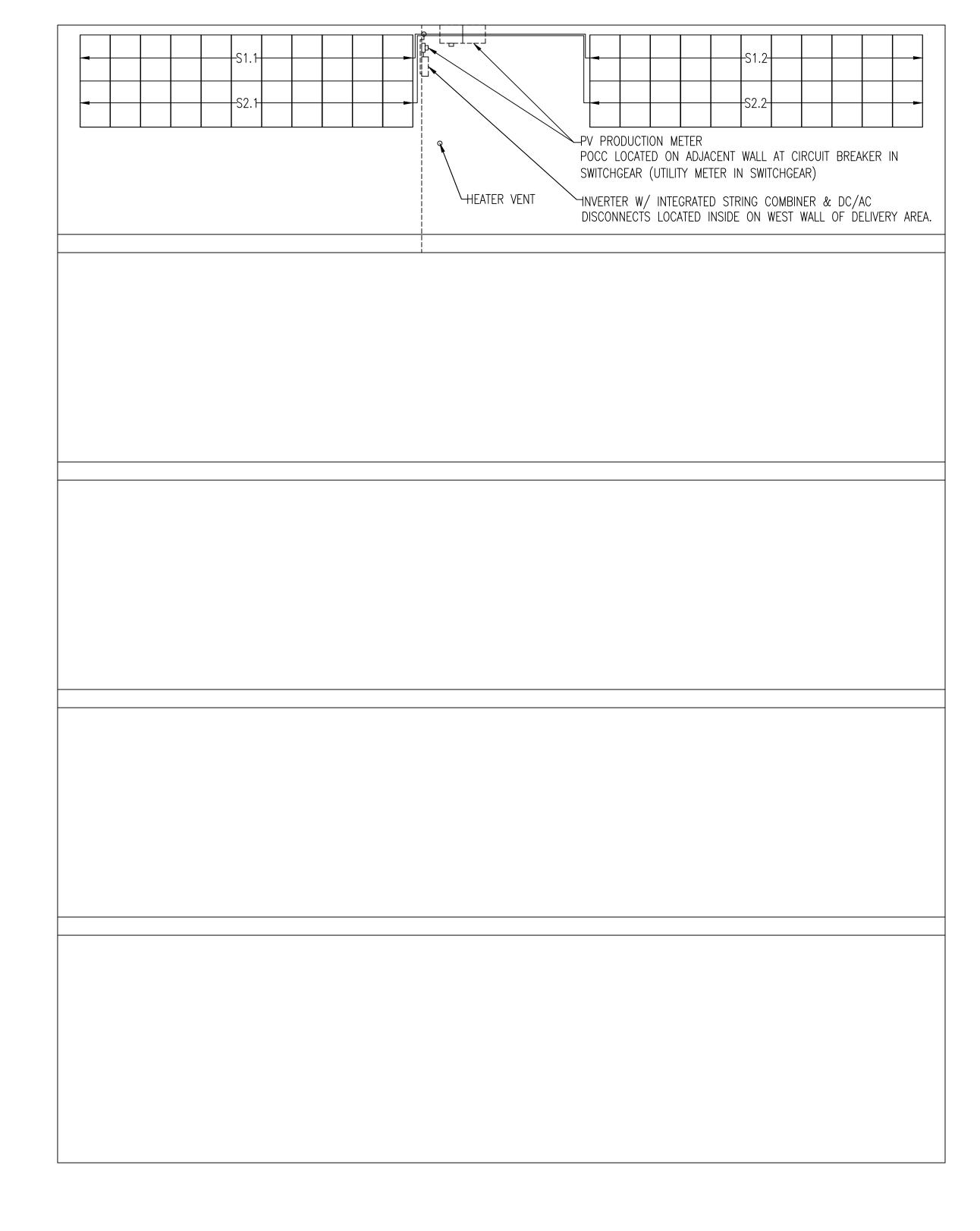
SOURCE CIRCUITS

JUNCTION BOXES

QUANTITY

INVERTERS







2 ELECTRICAL PLAN

E.1 SCALE: 1/8" = 1' - 0"





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Sheet Title:

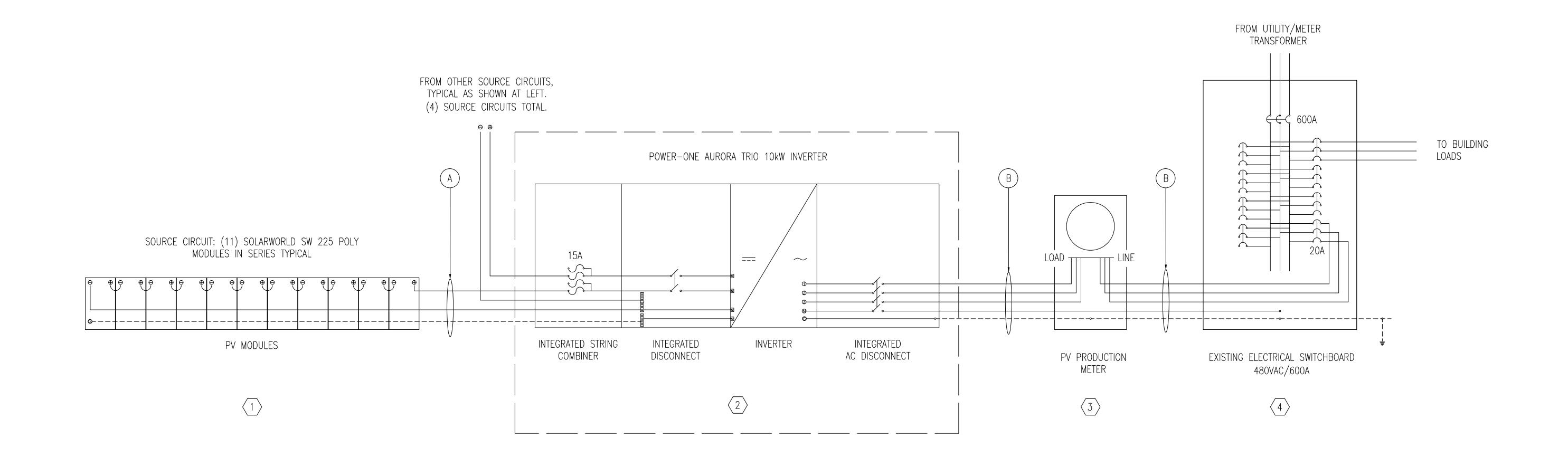
ELEC NOTES +

are:	2/24/2012
El Project No.	
El Project Manage	er: JZ
esigned By:	KK
rawn By:	KK
necked By:	
roject Type:	230

Sheet Number:







SHEET NOTES

- SOLARWORLD 225 POLY PV MODULES W/ MC TYPE 4 CONNECTORS.

 GROUNDING W/ WEEB GROUNDING CLIPS TO RAILS, GROUNDING LUGS ON RAILS AND CONNECTED TO INVERTER GROUND LUG. FURNISHED BY CEI.
- POWER-ONE AURORA TRIO 10kW INVERTER W/ INTEGRATED STRING COMBINER & DC/AC DISCONNECTS (PVI-10.0-I-OUTD-S2-US-408-NG W/STRING COMBINER) (1) TOTAL INVERTERS. SEE DATASHEET FOR DETAILED BLOCK DIAGRAM. FURNISHED BY CEI.
- PV PRODUCTION METER (COOPER B-LINE 117TB) METER BASE TO BE FURNISHED BY CEI, METER TO BE FURNISHED & INSTALLED BY UTILITY.
- EXISTING ELECTRICAL SWITCHBOARD (EATON POW-R-LINE) 480Y/277V, 600A, 20A/3P CIRCUIT BREAKER (EATON FD3020) FOR PV SYSTEM FURNISHED BY CEI.

TABLE A: PV SOURCE CIRC	CUIT CONDUCTOR & C	CONDUIT IDENTIFICATION	N								
CONDUCTOR LOCATION A	# OF MODULES IN SERIES	lsc (A)	Imp (A)	Voc (VDC)	Vmp (VDC)	MAX. ONE WAY LENGTH (FT.)	VOLTAGE DROP %	CURRENT CARRYING CONDUCTOR SIZE	CONDUCTOR TYPE	BONDING CONDUCTOR	CONDUIT
MODULES TO INVERTER	11	8.17	7.63	447.5	324.5	100'-0"	0.60%	#10	USE-2	#6	N/A

TABLE B: INVERTER OUTPUT CIRCUIT CONDUCTOR & CONDUIT IDENTIFICATION									
CONDUCTOR LOCATION	NOMINAL VOLTAGE (VAC)	PHASES	GENERATION AMPACITY (A)	DISTANCE	VOLTAGE DROP %	CURRENT CARRYING CONDUCTOR SIZE	CONDUCTOR TYPE	GROUNDING CONDUCTOR	CONDUIT
В	480	3	14.0	20'-0"	0.20%	#12	THWN-2	#6	1" EMT

ELECTRICAL IN ELECTRIC, IN ELECTRICAL POWER & TECHNOLOGY SERVI 111 SW Columbia Street, Ste 480 Portland, OR 97201 main 503.419.3333 www.christenson.com

Revisions:

CENTRAL BAKING COMPANY IOTOVOLTAIC PROJECT 2249 NW York

Sheet Title:
ELEC DIAGRAM

GRAND PH

Date: 02/24/2012

CEI Project No.

CEI Project Manager: JZ

Designed By: KK

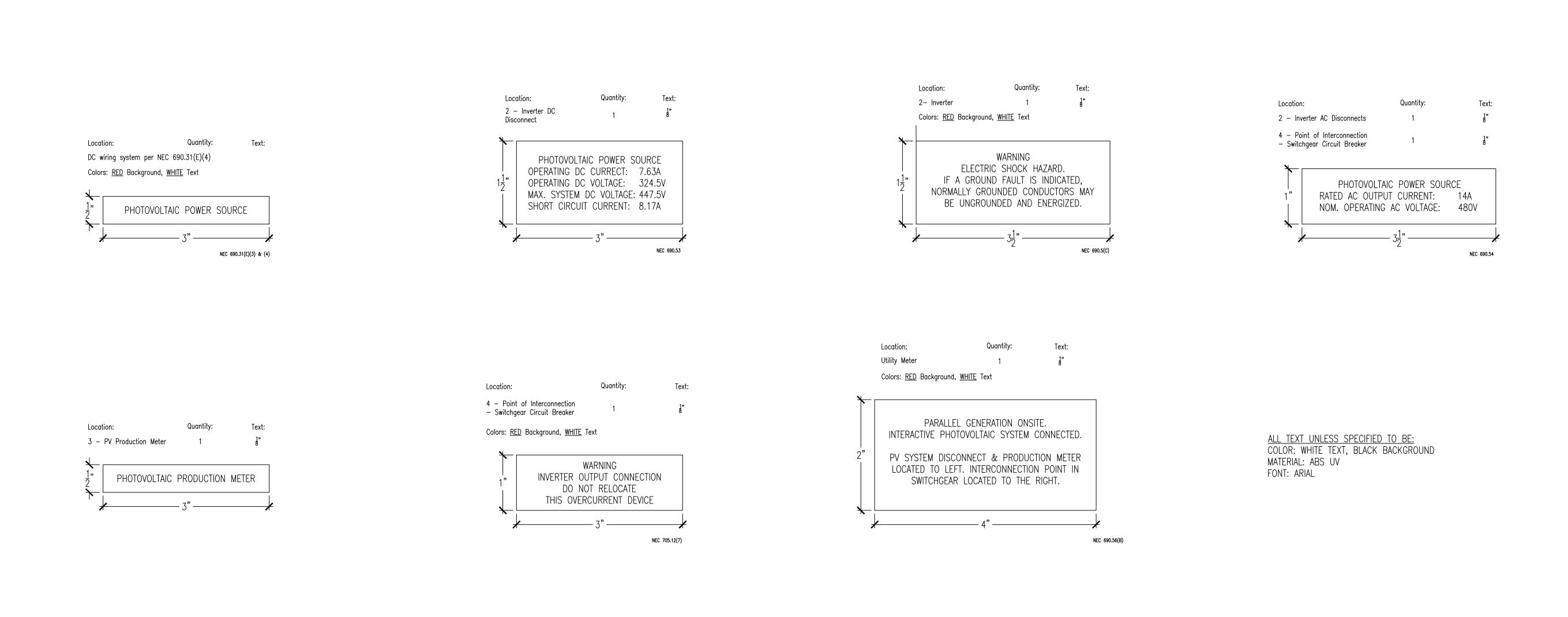
Drawn By: KK

Checked By:

Project Type: 230

Sheet Number:

E.2



1 SIGNAGE SCALE: 1" = 1" ELECTRIC, INC.
ELECTRICAL, POWER & TECHNOLOGY SERVICES
111 SW Columbia Street, Ste 480
Portland, OR 97201
main 503.419.3330
fax 503.419.3333
www.christenson.com

Revisions:

ND CENTRAL BAKING COMPANY
PHOTOVOLTAIC PROJECT
2249 NW York
Portland, Oregon 97210

GRAND PH

Sheet Title:

Date: 02/24/2012
CEI Project No.
CEI Project Manager: JZ
Designed By: KK

Drawn By: Checked By: Project Type:

Sheet Number:

E.3

-3" HIGH FASTJACK E-SERIES ROOF STANCHION (BY PROFESSIONAL SOLAR)
W/ OATEY OAT-SF FLASHING (BY OATEY) 2x12 JOISTS UNDER ROOFING PV SYSTEM ABOVE EXISTING COMP ROOFING NEW REDLAM 1.9E LVL 1 3/4" x 11 7/8" SISTERED TO EXISTING 2x12 JOIST WITH (2) ROWS OF 10d NAILS @ 12" O.C. STAGGERED. PROVIDE FACEMOUNT HANGERS AT EA. END.

1 RACKING SUPPORT SCALE: 1/8" = 1' - 0"

Revisions:

ND CENTRAL BAKING COMPANY
PHOTOVOLTAIC PROJECT
2249 NW York
Portland, Oregon 97210 GRAND

Sheet Title: RACKING SUPPORT

02/24/2012 CEI Project No.

CEI Project Manager: Designed By:

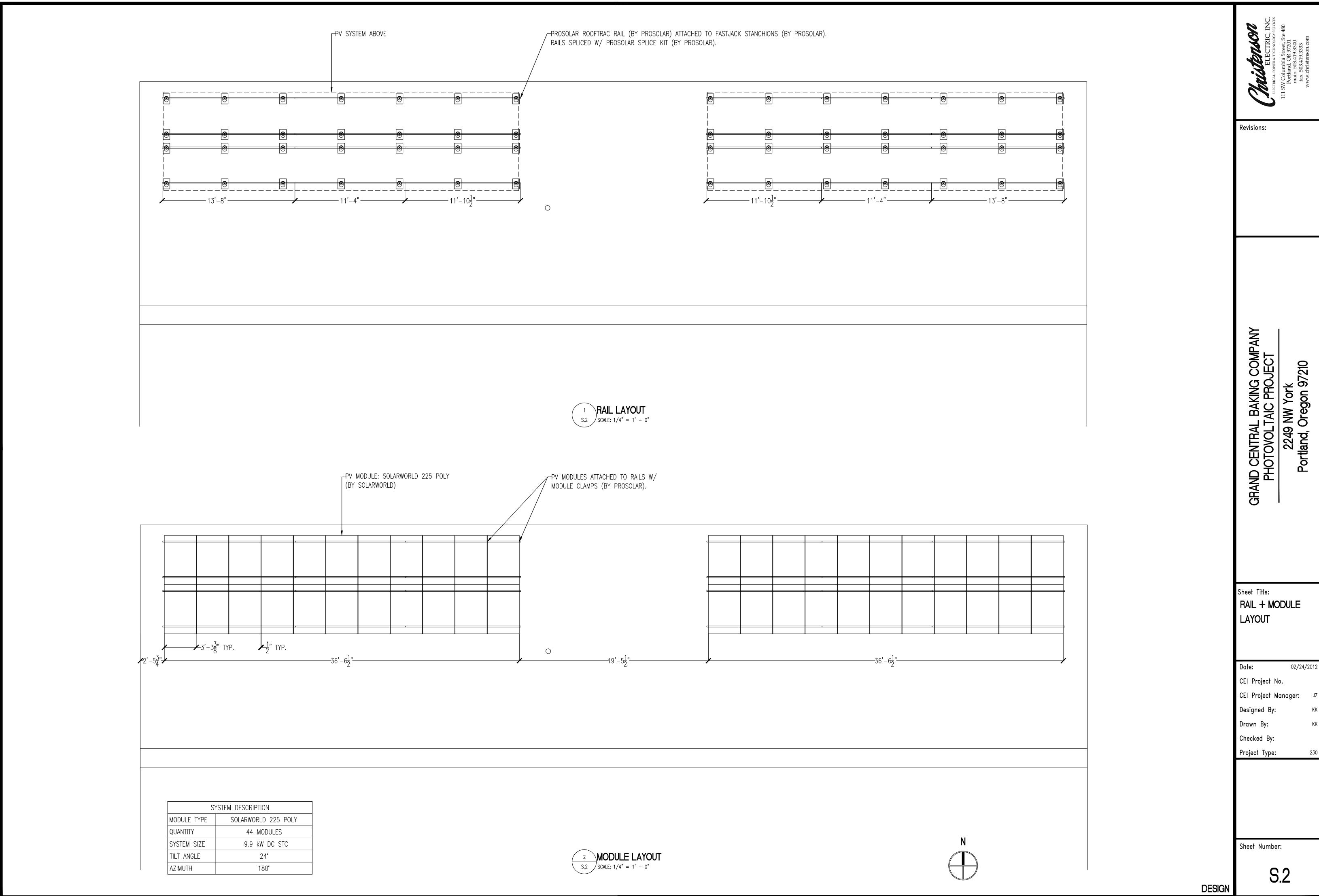
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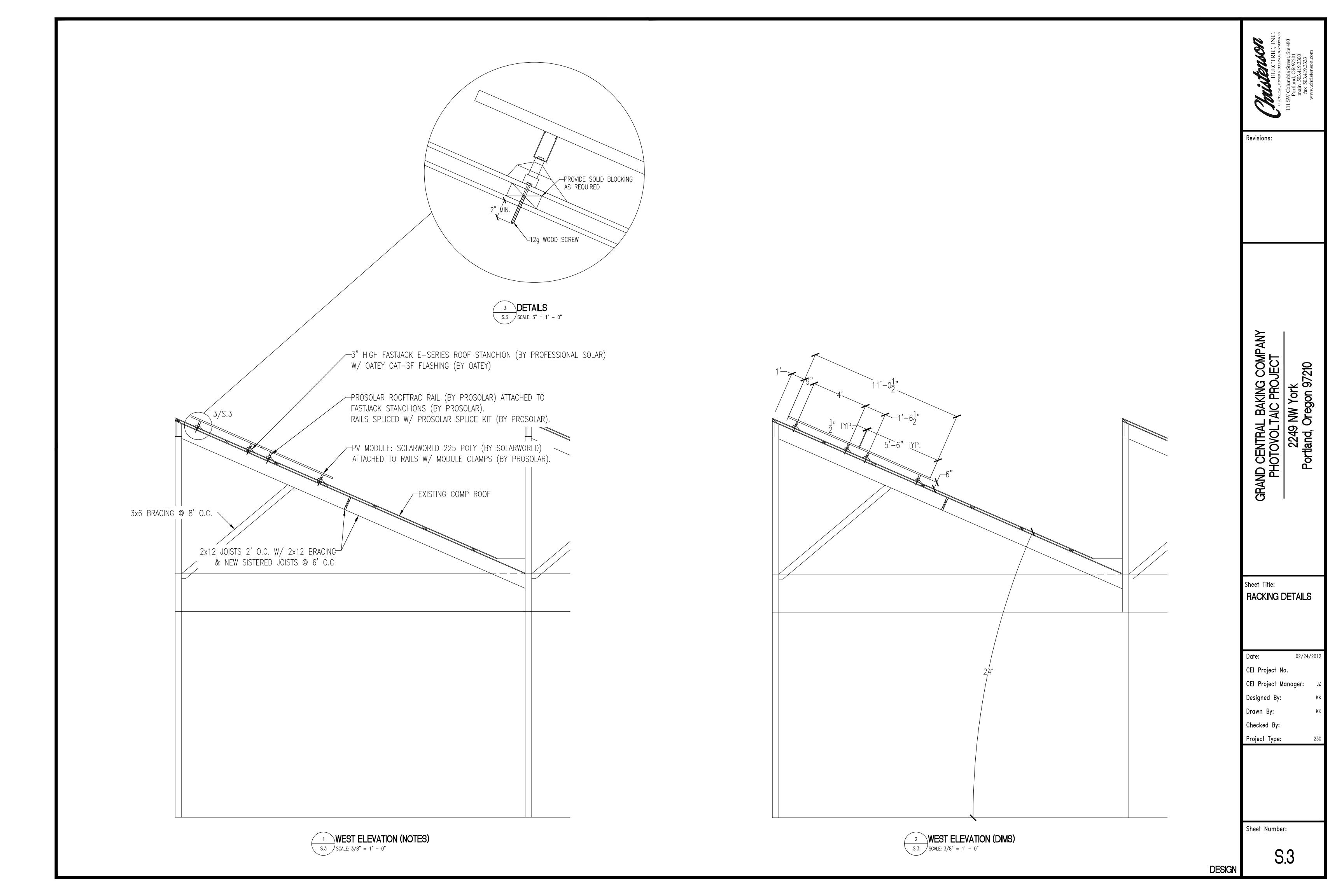
Project Type:

Sheet Number:

DESIGN

S.1









Authorized signature:_

Print name:

Building Permit Application
City of Portland, Oregon - Bureau of Development Services
1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7310 • TTY 503-823-6868 • www.portlandoregon.gov/bds

Price -	ou Sir aut Avenue, Poluanu, Orego	11 57 201 - 303-023-73 10 - 71 1 303-023-01	boo - www.portiandoregon.	govinus
Type of work			This permit applica	ation expires if a permit is not 0 days after it has been accepted
☐ New construction	Addition/altera	ation/replacement	as complete.	adyo antor it had been accepted
☐ Demolition	Other:		Office Use Only	
Category of construction	on		Permit no:	<u> </u>
☐ 1 & 2 family dwelling	☑ Commercial/industrial	☐ Accessory building	Date received: By:	
☐ Multifamily	☐ Master builder	Other:	LDy.	
Job site information an			Required Data: O	ne and Two Family Dwelling
Job no.: 24554 Job a	address: 2249 NW York		Permit fees* are base formed. Indicate the	ed on the value of the work per- value (rounded to the nearest dollar)
City/State/ZIP: Portland	d, OR 97210		of all equipment, mat for the work indicated	erials, labor, overhead, and the profit
Suite/bldg./apt. no.:	Project name: Grand Ce	ntral Baking Solar Array		
Cross street/directions to job	site: NW 22nd Ave.		Number of bedrooms:	
			Number of bathrooms:	
Subdivision:	Lot no.	Tax map/parcel no.	Total number of floors:	
Description of work			New dwelling area:	square feet
	and structural support	s for PV array on roof	Garage/carport area:	square feet
			Covered porch area:	square feet
			Deck area:	square feet
			Other structure area;	square feet
			Required Data: C	
Reference RS / Combina	ation Permit no.			ed on the value of the work per- value (rounded to the nearest dollar)
Property owner	Tenar	nt		terials, labor, overhead, and the profit
Name:			Valuation:	\$15,503
Address:			Existing building area:	square feet
City/State/ZIP:			New building area:	square feet
Phone:	FAX:	*	Number of stories:	
Owner installation: This installa or exchange.	ition is being made on property that I ow	n, which is not intended for sale, lease, rent,	Type of construction: Occupancy groups	
Owner signature:		Date:	Existing:	
x Contractor			New:	
Business name: Christe	enson Electric, Inc.		Notice	- Very Athlesia and Company
Address: 111 SW Colu	mbia, Suite 480			ubcontractors are required to be
City/State/ZIP: Portland	i, gR 97201		under ORS 701 and	may be required to be licensed in the
Phone: 503.419.3300		3.419.3695		work is being performed. If the applilicensing, the following reasons apply.
CCB lic. no. 458	helsent Du	52155		
Authorized signature:	(lagar)		Statement of Fact:	I certify that the facts and information set
Print name:		Date:	forth in this application	are true and complete to the best of
Applicant	X Conta	act Person		rstand that any falsification, misrepre- of fact (whether intentional or not) in this
	enson Electric, Inc.		application or any other	er required document, as well as any or omission, may be cause for revoca-
0.11100			tion of permit and/or c	ertificate of occupancy, regardless of
Address:	mmerman		how or when discover	
			Building Permit F	
City/State/ZIP:	Teav		Fees due upon a	
Phone: 503.419.3643		3.419.3743	Amour	nt received
E-mail: jeff.zimmern	man@christenson.com		Dat	e received

Date:

Sub-contractor information can be faxed to 503-823-7693.





Renewable Electrical Energy Permit Application City of Portland, Oregon - Bureau of Development Services 1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7363 • FAX 503-823-4172 • TTY 503-823-6868 • www.portlandoregon.gov/bds

Type of work			
☐ New construction	™ Ad	dition/alteration/r	eplacement
☐ Demolition	☐ Ot	her:	
Category of construction			
1 & 2 family dwelling	☑ Commercial/ir	ndustrial	☐ Accessory building
	Master builder	- We: 19	Other:
Job site information and loca	ation		经上级从来还许经过扩展等
Job no.: 24554 Job address	s: 2249 NW 1	York	
City/State/ZIP: Portland, O	R 97210		
Suite/bldg./apt. no.:	Project name: G:	rand Centra	l Baking Co. PV Array
Cross street/directions to job site:	NW 22nd Ave	e v	
Subdivision:	Lot no	ο,	Tax map/parcel no.
Description of work			
Install 9.9kW Solar a	array on ro	of, interco	onnect to building
electrical system			
Reference RS / Combination		Permit no.	
■ Property owner		Tenant	
Name:			
Address:			
City/State/ZIP:			
Phone:		FAX:	
Owner Installation: This installation is bor exchange.	eing made on prop	erty that I own, which	h is not intended for sale, lease, rent,
Owner signature:			Date:
Contractor Contractor		Subcontra	ctor
Business name: Christenson	Electric,	Inc.	
Address: 111 SW Columbia	, Suite 48	0	
City/State/ZIP: Portland, O	R 97201		
Phone: 503.419.3300		FAX: 503.41	19.3695
Elec. lic. no. 26-34C		CCB lic. no. 45	58
Metro or City lic no. 8737)		Date:
Supervising electrician Signature, required:			
Print name:	LK	A 1	icense no. 62155
Authorized signature:	reul b	juune	
Print name:			Date:
■ Applicant		■ Contact Per	erson
Business name: Christensor	n Electric,	Inc.	
Contact name: Jeff Zimmer	man		
Address:			
City/State/ZIP:			
Phone: 503-419-3643		FAX:	
E-mail: jeff.zimmerman@c	hristenson	.com	

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Fee Schedule				
Description	Qty.	Fee	Total	**
Renewable energy installation	on per syst	erm tota		
5 kva or less		\$130		2
5.01 to 15 kva	1	\$186	186.	2
15.01 to 25 kva		\$243		2
Miscellaneous			720 30	
Describe:				
Hourly rate:		\$151		
Each additional inspection of	ver allowa	ble in ar	y of the al	bove
Per inspection		\$92		
Investigation fee				
Other				
Electrical permit fees*				
	S	ubtotal	186.	00
Plan review (2	5% of perr	nit fee)		
State surcharge (12	22.	32		
ТОТ	AL PERMI	T FEE	208.	32

^{**} Number of inspections allowed per permit,



Product Proposal/Purchase Agreement

Total

\$1,575.00

(Date)

CODUILI	(00)		PA No.	Date
Y Engineered Wood Products			Q-157159	2/28/2012
Project		Proj. No.	Payment Terms	Shipments
Grand Central Banking		076867	Cash in Advance	0
Customer	Phone		Tech. Rep.	Phone
14			Schubert, Dave	(503) 819-4424
Address	Fax		Address	Fax
			Dave Schubert 19363 Willamette Drive #344 West Linn OR 97068RICE	(971) 285-9048

Sales Terms

This proposal is subject to the TERMS AND CONDITIONS OF SALES available at www.RedBuilt.com, and is effective for 15 days after the date shown. If accepted within that period, the prices shown are guaranteed for all materials delivered within 120 days from acceptance. Thereafter, prices are subject to change. Expedited services may result in additional costs. Price is F.O.B. truck bed jobsite based on the assumed number of shipments indicated. No on-site assembly, erection, or truck unloading is included. This Purchase Agreement includes materials only. Design calculations and product placement diagrams are NOT included with this order. Sales and use tax are not included in the total price unless shown otherwise, but will be added to the invoice when applicable. PAYMENT TERMS are listed above and are subject to approved credit.

Scope	of Work	/ Project	Notes
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price per list below.

Price is FOB Stayton plant, OR.

RedBuilt Representative

Description	Pieces	Length	Total
1.75"x11.875" 2.0E RedLam LVL	14	25	350 1

Purchaser

(Date)