



SOLAR INSTALLATIONS (Solar/Solar Voltaic/Solar Water/Wind) PERMIT SUBMITTAL & PLAN REVIEW CRITERIA

All Project Applications must contain the following:

Submittal Requirements:

1. Permit information sheet
2. 8 ½" X 11" Plot Plan drawn to scale
3. Directions to Site Map
4. *Residential Outdoor Lighting Sheet – May be requested if needed.*
5. Plans as defined below

All submittals shall be site specific and designed to the provisions of the 2005 National Electrical Code (Electrical design), the 2006 International Residential Code and 2006 International Building Code (Structural design), and the 2006 International Fuel Gas Code (Gas piping) as adopted by the Town of Dewey-Humboldt.

MINIMUM CONTENT REQUIREMENTS FOR PLAN SUBMITTAL: *****Applicable to Solar Water System***

General:

- Any system over 10Kw requires approval from APS prior to issuance/final
- Two (2) sets of plans, minimum sheet size (suggest preferred size 18" x 24") that are site specific for the project**
- Plans shall be legible and clearly indicate the entire scope of proposed work**
- Provide an itemized list of components with cost break down including a separate line item for total labor/installation cost**
- In certain situations, additional information, and/or engineering may be required**

Site Plan: (SEE SAMPLE SITE PLAN)

- Single sheet site plan, minimum sheet size (suggest preferred size 18" x 24") clearly indicating the location(s) of all equipment**
- The type/use of each structure on which the system is to be mounted or contained within: dwelling, garage, storage building, manufactured home, etc.**
- Indicate the distance between structures and to solar system(Voltage drop)

System Components: **

- Provide manufacturer's specifications for ALL system components: solar panels, inverters, controllers, disconnects, junction boxes, panel boards, etc. (Manufacturers Installation instructions shall be on site at time of inspection)
- The manufacturer's specifications shall clearly indicate the specific model to be used
- The manufacturer's specifications shall include the approved testing laboratory listing: Underwriters Laboratories (UL), ELT Testing Laboratories, Inc. (ETL), or Canadian Standards Association (CSA) and listing number for each component. NOTE: ONLY listed/labeled components will be permitted

Array Drawing: (SEE SAMPLE ARRAY DRAWING)

- Drawing shall specify the number of modules in series or in parallel for each array and total number of arrays
- Include the operating voltage, operating current, maximum system voltage, and short-circuit current
- Indicate the specific make and model of modules(s). These shall correspond with the provided manufacturer's specifications
- Indicate wire size (AWG), type, insulation type, number of wires, conduit size & type and burial depth

One (1) – Line Electrical Diagram: (SEE SAMPLE ONE (1) – LINE DIAGRAM)

- One (1) Line Electrical Diagram must be prepared by a Licensed Electrical Contractor or Engineer
- The wiring line diagram shall include all wire sizes (AWG), type, insulation type, number of wires and conduit size & type
- All equipment/components shown identifying specific make and model shall correspond with the provided manufacturer's specifications

- All required notes regarding Labeling and Warning Signage shall be in accordance with NEC, all applicable requirements of the utility company (APS), and the local authority having jurisdiction (See sample one (1) – and three (3) – line diagrams)
- Include the KW output, all disconnects, operating voltage, operating current, maximum system voltage, and short-circuit current
- Indicate size of main electrical panel and specify any panel replacements or upgrades, (i.e., 200 Amp to 400 Amp)

Three (3) – Line Electrical Diagram: (SEE SAMPLE THREE (3) – LINE DIAGRAM)

- Three (3) Line Electrical Diagram must be prepared by a Licensed Electrical Contractor or Engineer
- The three (3) – line electrical diagram shall include all the same information required on the above one (1) – line diagram

Systems with Batteries and/or Generator Power Backup:

- Provide the manufacturer's specifications for the specific type, brand and model of batteries
- The plans shall include the number of batteries to be used and a floor plan of the battery storage location. Include the type of storage racks and show the working space access to the batteries and ventilation (amount and how being vented)
- The electrical wiring, disconnect types and related wiring connections to the system shall be included on the one (1) – and three (3) – line diagrams (See sample one (1) – and three (3) – line diagrams with a battery system)
- Provide the manufacturer's specifications for the generator. The site plan shall indicate where the generator will be located, the type of fuel storage, and location of fuel storage. Pipe size for LPG or natural gas lines and LPG storage tank size (water gallon capacity) shall also be included on the site plan.
- Include electrical wiring, disconnect types and related wiring connections to the systems, and the transfer switch on the one (1) – and three (3) – line diagrams

Roof Framing Details: (Required for ANY/ALL roof mounted equipment) **

- Provide details indicating the type of roof structure system: manufactured trusses, conventional framed system, manufactured roof joist system, metal frame system, etc. Include the sheathing size/type, roof slopes, and type of roof covering materials (shingles/tile, etc.) Low slope roof trusses shall be engineered
- Indicate the size of support members, spacing of members, age of structure (or year built), and span between walls/beams supporting the roof
- Location of all roof vent systems, plumbing or mechanical, in the array area. Vents shall not be covered by arrays
- Indicate the weight of array and all other components (pounds per square foot, load to roof supports). Include all module/array support or tilt systems
- Provide manufacturer's specifications and installation instructions for mounting systems and attachment hardware for the system to be used. NOTE: Engineering may be required to verify resistance of wind uplift on low slope roof with tilt systems and of systems designed to be attached to the roof covering only and not direct to the roof frame members
- Roof mounted systems on Manufactured Mobile Homes, Park Model Units and Factory Built Buildings will require an engineered design and/or specific approval from the manufacturer. Engineering shall include additional loading of inverters if attached to units
- If not using a pre-engineered mounting/rack system, provide an engineered design for the system

Ground Set Systems: **

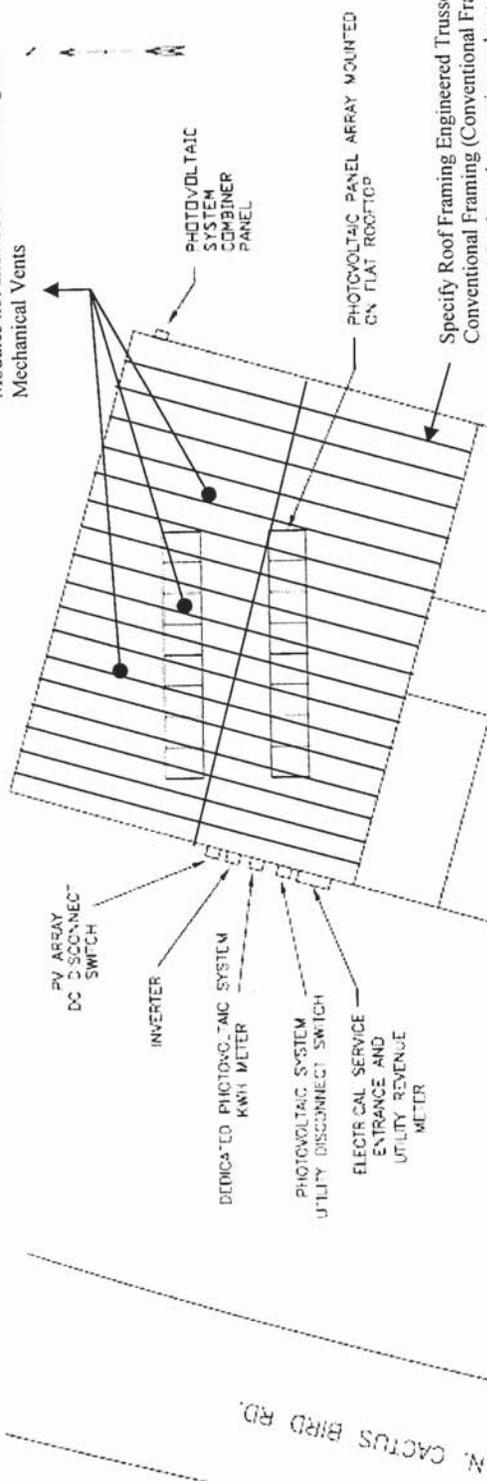
- Indicate the weight of array and all other components. Include all support members and equipment being supported by the foundation/footing
- Provide manufacturer's specifications of attachment hardware for mounting of system to the support members
- If not using a pre-engineered mounting/rack system, provide an engineered design for the foundation/footing system. The design shall include attachment to foundation (anchor bolts, size [diameter]), and number of bolts, embedment depth, size and amount of reinforcement steel, depth and size of foundation/footing

This list is not all inclusive. Additional information and engineering as determined by the Building Official during plan review may be required. **

** Applicable to Solar Water Systems.

REV.	DESCRIPTION	DATE
C	INITIAL RELEASE NOT FOR CONSTRUCTION	01-25-07

Modules not allowed over Plumbing and Mechanical Vents



NOTE: UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL P.V. SYSTEM COMPONENTS LOCATED AT SERVICE ENTRANCE

This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is only to illustrate typical minimum information required at time of application to AFS. Additional information may be required.

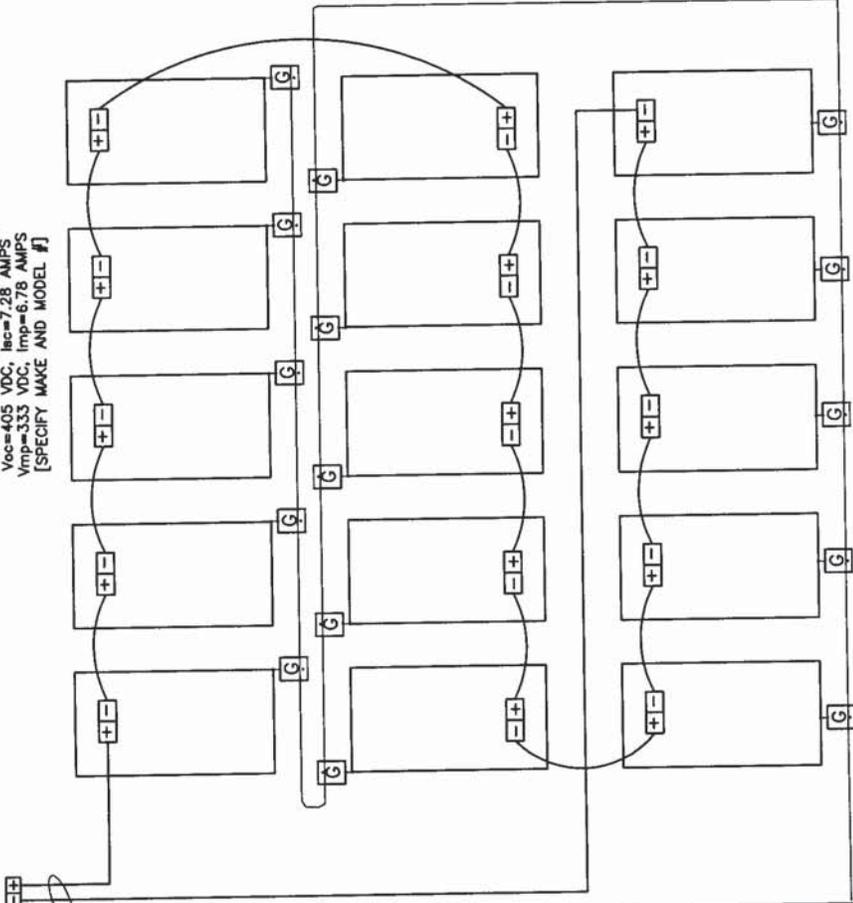
SAMPLE SITE PLAN

1234 South Main Street Any City, Arizona 85123 Tel: 602-555-5555		ABC SOLAR COMPANY, INC.	
APPROVALS	DATE	SITE PLAN	
DRAWN: ABC	04-20-04	4.8 KW PHOTOVOLTAIC SYSTEM	
CHECKED: ENGINEER		999 N. CACTUS BIRD RD.	
M.G.R.:		ANY CITY, AZ 85123	
REV. C	01-25-07	SIZE: A	CODE INTENT NO: 0000-0004
ABC PROJECT #1111-9999		SCALE: NA	REV. C
DO NOT SCALE DRAWINGS		SHEET 1 OF 1	

REV.	DESCRIPTION	DATE
C	UPDATE ARRAY WATTS TO 2258	01-29-07

TYPICAL FOR BOTH PV ARRAYS #1 AND #2
SEE DWG #0000-0002

2258 WATT PHOTOVOLTAIC ARRAY
[TYPICAL OF 2]
15 PANELS [SPECIFY WATTAGE]
15 IN SERIES BY 1 IN PARALLEL
Voc=405 VDC, I_{sc}=7.28 AMPS
Vmp=333 VDC, Imp=6.78 AMPS
[SPECIFY MAKE AND MODEL #]



2 - #12 CU
1 - #12 CU GROUND
[SPECIFY INSULATION AND CONDUIT SIZE]

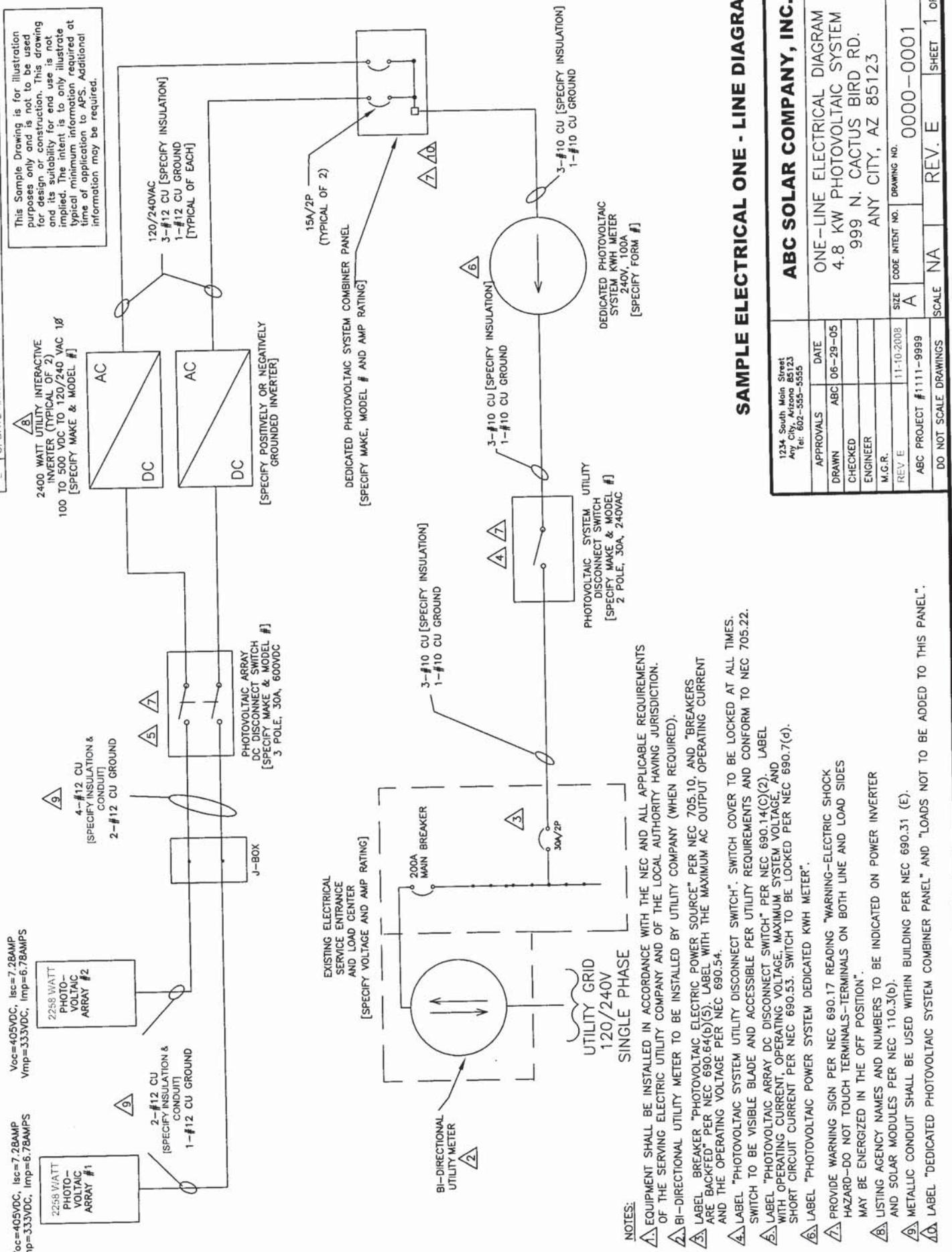
This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is only to illustrate typical minimum information required at time of application to APS. Additional information may be required.

SAMPLE ARRAY DRAWING

1234 South Main Street City, Arizona 85123 Tel: 602-555-5555	
APPROVALS	DATE
DRAWN ABC	01-30-04
CHECKED	
ENGINEER	
M.G.R.	
REV. C	11-10-2008

- NOTES: [TYPICAL]
- EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
 - GROUND WIRE MUST BE CONTINUOUS AND INSTALLED TO ALLOW FOR PANEL REMOVAL WITHOUT DISRUPTING CONTINUITY. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC 690-4 (C).
 - FOLLOW MANUFACTURERS SUGGESTED INSTALLATION PRACTICES AND WIRING SPECIFICATIONS.
 - WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS.

ABC SOLAR COMPANY, INC.	
4516 WATT PHOTOVOLTAIC ARRAY WIRING DIAGRAM	
SIZE	CODE INTENT NO. DRAWING NO.
A	0000-0003
SCALE	REV. C
DO NOT SCALE DRAWINGS	SHEET 1 OF 1



This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is to only illustrate typical minimum information required at time of application to APS. Additional information may be required.

2400 WATT UTILITY INTERACTIVE INVERTER (TYPICAL OF 2)
100 TO 500 VDC TO 120/240 VAC 1Ø
[SPECIFY MAKE & MODEL #]

AC DC AC DC
[SPECIFY POSITIVELY OR NEGATIVELY GROUNDED INVERTER]

120/240VAC
3-#12 CU [SPECIFY INSULATION]
1-#12 CU GROUND [TYPICAL OF EACH]

PHOTOVOLTAIC ARRAY DC DISCONNECT SWITCH
[SPECIFY MAKE & MODEL #]
3 POLE, 30A, 600VDC

15A/2P (TYPICAL OF 2)
DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL
[SPECIFY MAKE, MODEL # AND AMP RATING]

PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH
[SPECIFY MAKE & MODEL #]
2 POLE, 30A, 240VAC

3-#10 CU [SPECIFY INSULATION]
1-#10 CU GROUND

3-#10 CU [SPECIFY INSULATION]
1-#10 CU GROUND

DEDICATED PHOTOVOLTAIC SYSTEM KWH METER
240V, 100A
[SPECIFY FORM #]

EXISTING ELECTRICAL SERVICE ENTRANCE AND LOAD CENTER AND AMP RATING

UTILITY GRID 120/240V SINGLE PHASE

BI-DIRECTIONAL UTILITY METER

200A MAIN BREAKER

30A/2P

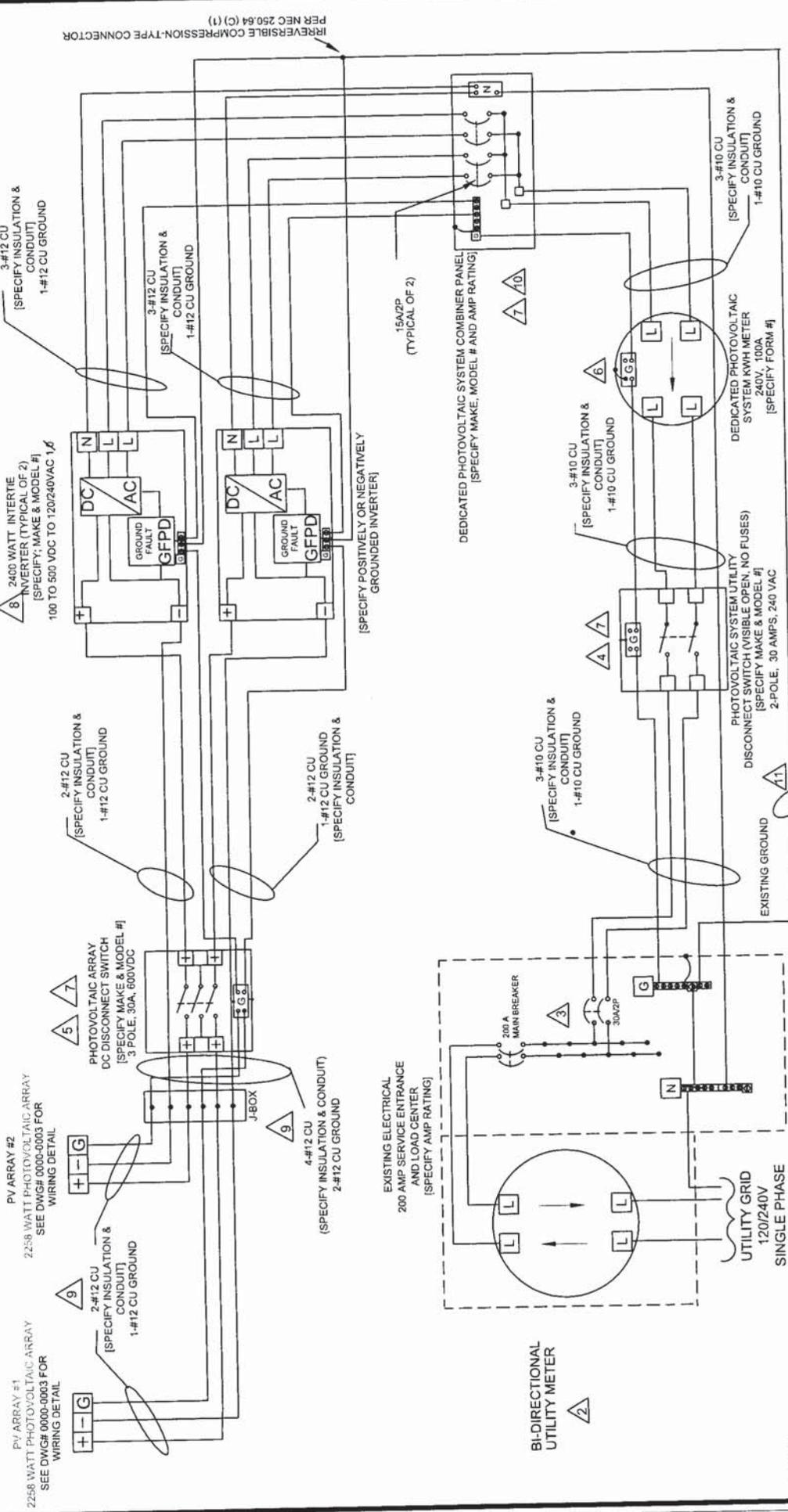
J-BOX

- NOTES:
1. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
 2. BI-DIRECTIONAL UTILITY METER TO BE INSTALLED BY UTILITY COMPANY (WHEN REQUIRED).
 3. LABEL "PHOTOVOLTAIC ELECTRIC POWER SOURCE" PER NEC 705.10, AND "BREAKERS ARE BACKFEED" PER NEC 690.64(b)(5). LABEL WITH THE MAXIMUM AC OUTPUT OPERATING CURRENT AND THE OPERATING VOLTAGE PER NEC 690.54.
 4. LABEL "PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED AT ALL TIMES. SWITCH TO BE VISIBLE BLADE AND ACCESSIBLE PER UTILITY REQUIREMENTS AND CONFORM TO NEC 705.22.
 5. LABEL "PHOTOVOLTAIC ARRAY DC DISCONNECT SWITCH" PER NEC 690.14(C)(2). LABEL WITH OPERATING CURRENT, OPERATING VOLTAGE, MAXIMUM SYSTEM VOLTAGE, AND SHORT CIRCUIT CURRENT PER NEC 690.53. SWITCH TO BE LOCKED PER NEC 690.7(d).
 6. LABEL "PHOTOVOLTAIC POWER SYSTEM DEDICATED KWH METER".
 7. PROVIDE WARNING SIGN PER NEC 690.17 READING "WARNING-ELECTRIC SHOCK HAZARD-DO NOT TOUCH TERMINALS-TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OFF POSITION".
 8. LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON POWER INVERTER AND SOLAR MODULES PER NEC 110.3(b).
 9. METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31 (E).
 10. LABEL "DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL" AND "LOADS NOT TO BE ADDED TO THIS PANEL".

SAMPLE ELECTRICAL ONE - LINE DIAGRAM

1234 South Main Street Any City, Arizona 85123 Tel: 602-555-5555		APPROVALS		DATE
DRAWN	ABC	06-29-05		
CHECKED				
ENGINEER				
M.G.R.				
REV. E	11-10-2008	A	SIZE	CODE INTENT NO.
ABC PROJECT #1111-9999			0000-0001	
DO NOT SCALE DRAWINGS	SCALE	NA	REV. E	SHEET 1 OF 1

ABC SOLAR COMPANY, INC.
ONE-LINE ELECTRICAL DIAGRAM
4.8 KW PHOTOVOLTAIC SYSTEM
999 N. CACTUS BIRD RD.
ANY CITY, AZ 85123



NOTES:

- 1 EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 2 BI-DIRECTIONAL UTILITY METER TO BE INSTALLED BY UTILITY COMPANY (WHEN REQUIRED).
- 3 LABEL "BREAKER" PHOTOVOLTAIC ELECTRIC POWER SOURCE" PER NEC 705.10, AND "BREAKERS ARE BACKFEED" PER NEC 90.64(B)(5), LABEL WITH THE MAXIMUM AC OUTPUT OPERATION CURRENT AND THE OPERATING VOLTAGE PER NEC 690.54.
- 4 LABEL "PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH", SWITCH COVER TO BE LOCKED AT ALL TIMES, CURRENT, OPERATING VOLTAGE, MAXIMUM SYSTEM VOLTAGE, AND SHORT CIRCUIT CURRENT PER NEC 690.55. SWITCH TO BE LOGGED PER NEC 690.70.
- 5 LABEL "PHOTOVOLTAIC POWER SYSTEM DEDICATED KWH METER".
- 6 PROVIDE WARNING SIGN PER NEC 690.17 READING "WARNING-ELECTRIC SHOCK HAZARD-DO NOT TOUCH TERMINALS-TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OFF POSITION, AND SOLAR MODULES PER NEC 110.3(B).
- 7 LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON POWER INVERTER.
- 8 METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31 (E).
- 9 LABEL "DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL" AND "LOADS NOT TO BE ADDED TO THIS PANEL".
- 10 GEC TO BE INSTALLED AS REQUIRED BY MANUFACTURER INSTRUCTIONS AND NEC 690.47.
- 11 #8 CU BARE GROUNDING ELECTRODE CONDUCTOR (GEC) Run to the AC grounding electrode and be directly into AC grounding electrode.

SAMPLE ELECTRICAL THREE - LINE DIAGRAM

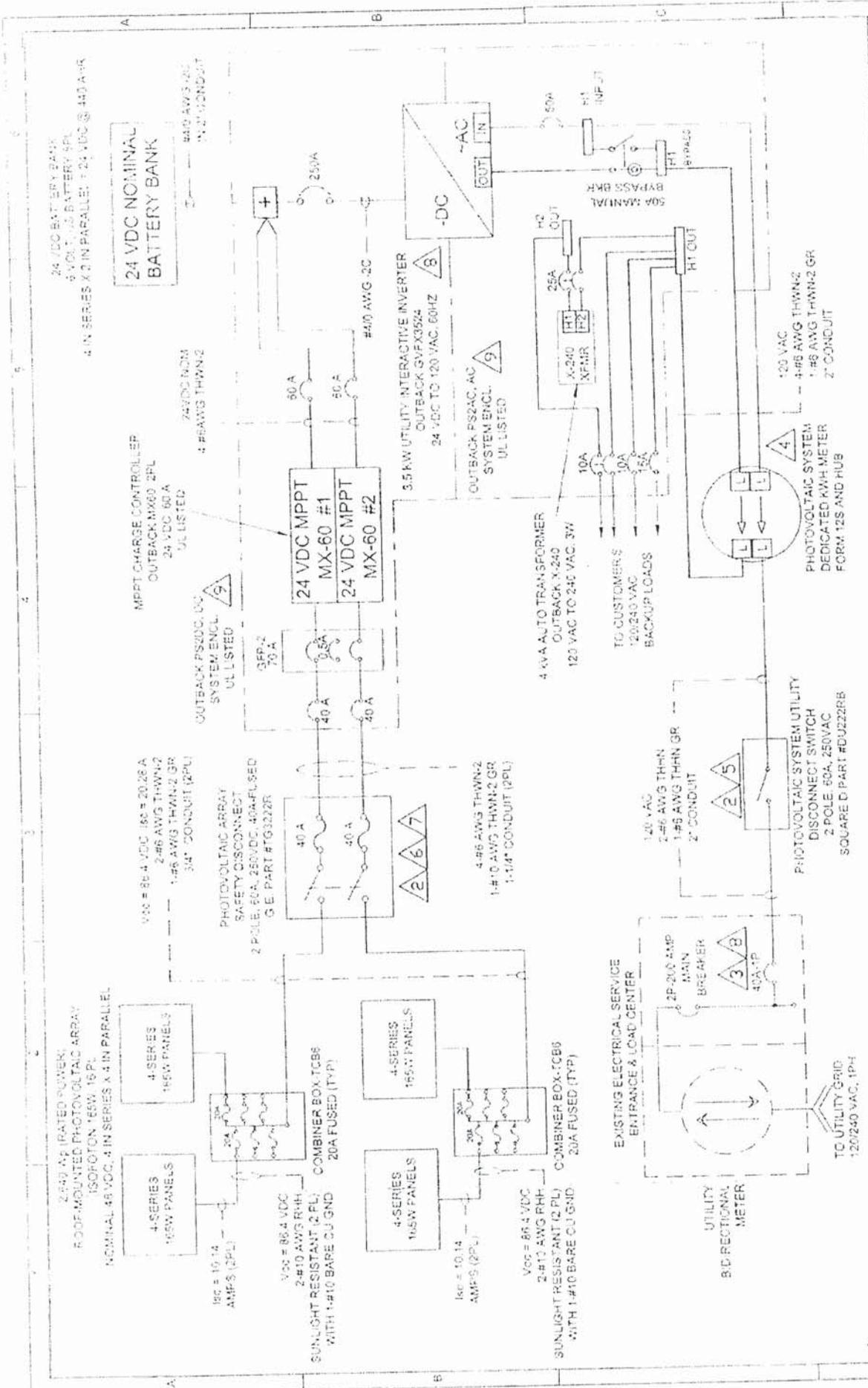
1234 South Main Street Any City, Arizona 85123 Tel: 602-555-5555	
APPROVALS	DATE
DRAWN ABC	04-05-05
CHECKED	
ENGINEER	
M.G.R.	
REV. E	11-10-2008
ABC PROJECT #1111-9999	SCALE NA
DO NOT SCALE DRAWINGS	REV. E
	SHEET 1 OF 1

ABC SOLAR COMPANY, INC.

THREE-LINE ELECTRICAL DIAGRAM
4.8 KW PHOTOVOLTAIC SYSTEM
999 N. CACTUS BIRD RD.
ANY CITY, AZ 85123

SIZE CODE INTENT NO. DRAWING NO.
A 0000-0002

This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is to only illustrate typical minimum information required at time of application to APS. Additional information may be required.

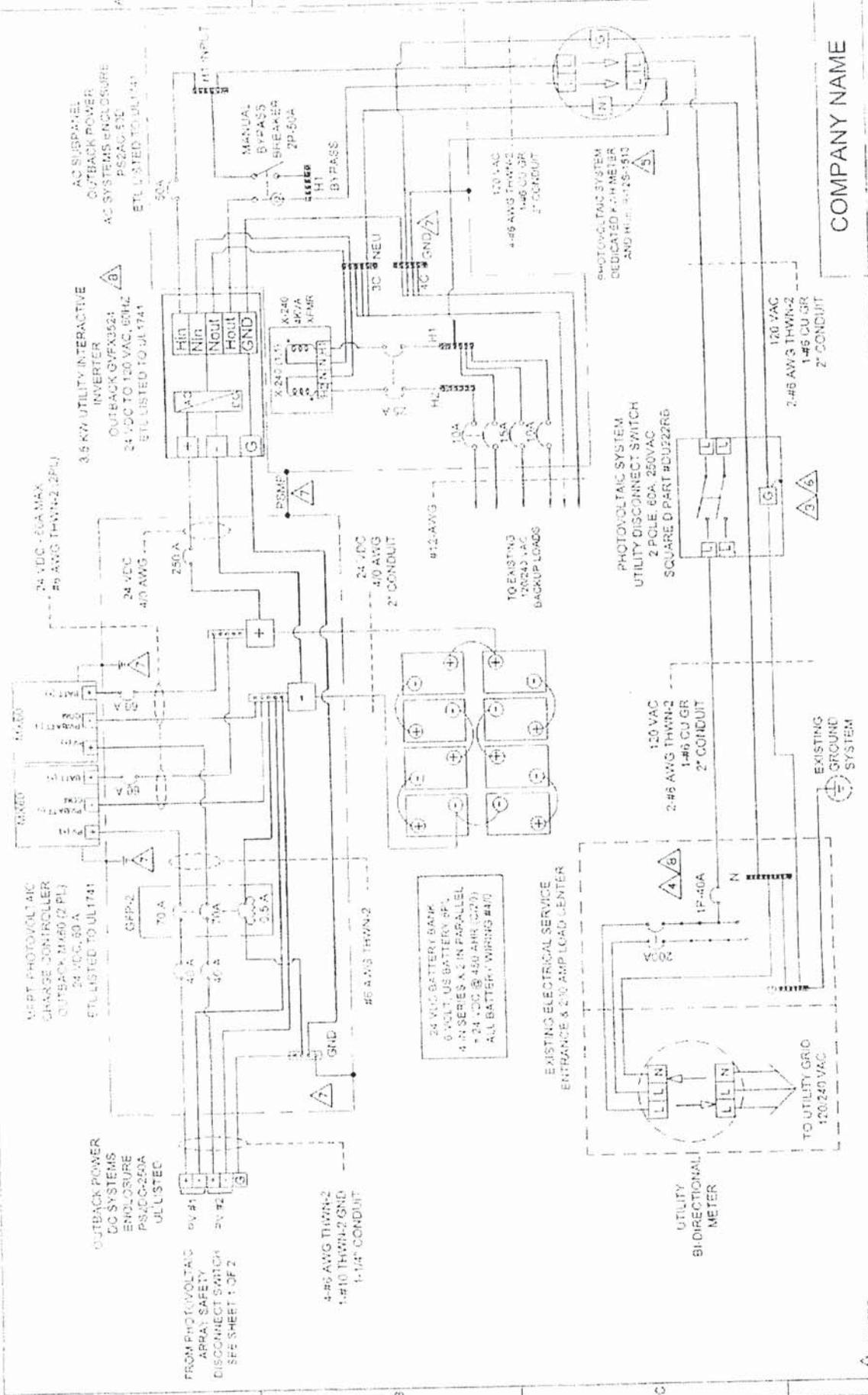


COMPANY NAME	
DATE:	08/12/04
CHECKED BY:	08/24/04
APPR BY:	08/24/04
REVISED:	11/12/04
SIZE:	B
SCALE:	N.T.S.
SHEET:	1 OF 1

**RESIDENTIAL PV
SAMPLE ONLY**

NOTES ARE REFERENCED FROM SHEET 3

This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is only to illustrate typical minimum information required at time of application to APS. Additional information may be required.



APPROVALS		DATE
RESIDENTIAL PV SAMPLE ONLY		6/12/04
		8/25/04
		09/22/04
		09/22/04
DATE: 12-11-2008		SCALE: NTS
COMPANY NAME 3-LINE ELECTRICAL DIAGRAM 3.5 KW PHOTOVOLTAIC SYSTEM 999 N. CACTUS BIRD RD. ANY CITY, AZ 85123		SHEET: 2 OF 2 ORDER NUMBER: 2004-107-04 DRAWING NO:

NOTES:
 ARE REFERENCED FROM SHEET 3
 This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is only to illustrate typical minimum information required at time of application to APS. Additional information may be required.

NOTES:

- <1> ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- <2> BI-DIRECTIONAL UTILITY METER TO BE INSTALLED BY UTILITY COMPANY.
- <3> LABEL BREAKER "PV ELECTRIC POWER SOURCE" PER NEC 705.10 AND "BREAKERS ARE BACKFED" PER NEC 690.64(B)(5). LABEL WITH THE MAX AC OUTPUT OPERATING CURRENT AND THE OPERATING VOLTAGE PER NEC 690.54.
- <4> LABEL "PHOTOVOLTAIC SYSTEM UTILITY DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED AT ALL TIMES. SWITCH TO BE VISIBLE BLADE AND ACCESSIBLE PER UTILITY REQUIREMENTS AND CONFORM TO NEC 705.22.
- <5> LABEL PER NEC 690.14(C)(2), "PHOTOVOLTAIC SYSTEM DC DISCONNECT SWITCH". LABEL PER NEC 690.53, WITH OPERATING VOLTAGE, OPERATING CURRENT, MAX SYSTEM VOLTAGE, AND SHORT CIRCUIT . SWITCH TO BE LOCKED PER NEC 690.7(D).
- <6> LABEL "PHOTOVOLTAIC POWER SYSTEM DEDICATED KWH METER".
- <7> PROVIDE WARNING SIGN PER NEC 690.17 READING, "WARNING-ELECTRIC SHOCK HAZARD-DO NOT TOUCH TERMINALS-TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OFF POSITION".
- <8> LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON POWER INVERTER AND SOLAR MODULES PER NEC 110.3(B).
- <9> METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31(E).
- <10> LABEL "DEDICATED PHOTOVOLTAIC SYSTEM COMBINER PANEL" AND "LOADS NOT TO BE ADDED TO THIS PANEL".
- <11> GEC TO BE INSTALLED AS REQUIRED BY MANUFACTURER INSTRUCTIONS AND NEC 690.47.

.....
This Sample Drawing is for illustration purposes only and is not to be used for design or construction. This drawing and its suitability for end use is not implied. The intent is only to illustrate typical minimum information required at time of application to APS. Additional information may be required.
.....

RESIDENTIAL PV
SAMPLE ONLY

ABBREVIATIONS

PV = PHOTOVOLTAIC
GEC = GROUNDING ELECTRODE CONDUCTOR

COMPANY NAME			
COMPANY ADDRESS Phone #	NOTES		
Drawn:	3.5 PHOTOVOLTAIC SYSTEM 999 N. CACTUS BIRD RD.		
Checked:	ANY CITY, AZ 85123		
Scale	Drawing No.	Sheet	Date
NONE	0000-0000	3 of 4	A 12-11-2008



TOWN OF DEWEY-HUMBOLDT
P.O. BOX 69
HUMBOLDT, AZ 86329
Phone: 928-632-7362 • Fax: 928-632-7365

Instructions for Drawing a Plot/Site Plan

Plot Plans must be drawn in Black Ink to scale on the form provided and must include all of the following information. An additional 8 ½" x 11" form may be used to provide an area map for a parcel which exceeds 2 acres or dimensions of 300 feet.

Site Plans must contain the following information and be drawn on the same size sheet as your construction drawings (minimum paper size is 18" X 24").

1. Indicate "North" with directional arrow.
2. Property Dimensions. (see Orientation of Dimension and Lettering as indicated on the Plot Plan Form).
3. Indicate scale used (Engineer's Scale ONLY – Not Smaller than 1" = 60').
4. Proposed structure(s) with all dimensions, including POOLS.
5. Existing structure(s) with all dimensions, including POOLS.
6. Distance(s) between structures.
7. Distances all structure(s) to all property lines.
8. Description of each structure's use.
9. Adjacent streets/roads.
10. Location of driveway(s) and material used (i.e., gravel, concrete...).
11. Location, size, dimensions of septic system with leach area (show perc test holes, 100% expansion area [minimum distance from septic & leach], length & slope of outlet lines [5' minimum], distribution box/diversion valve, inspection pipe(s) length, width & number of leach lines [distance between trenches], degree of slope in leaching area, length & slope of building sewer lines, setbacks from property lines, buildings, wells, dry washes, other sewage systems, water lines).
Note: If individual wells provide water, maintain minimum septic setbacks of 50' from property lines and 100' from all wells including neighboring wells.
12. Locations of all utility poles, meters, and lines.
13. All easements regardless of purpose must be displayed.
14. Slope information: slope information may be given in feet or percentage of slope
 - a. Indicate high and low point of lot if lot slopes
 - b. Indicate by arrows the direction of slope
 - c. Indicate how much difference there is in elevation (in feet) between high and low point.
15. Any watercourse(s) on the parcel or within 200 feet of existing or proposed structure(s); wells within 100 feet of the parcel; and road-cuts within 50 feet of the parcel (A watercourse is defined as any topographic feature that carries water periodically. Other appropriate terms might be wash, creek, river arroyo, slew or drainage way.) Indicate elevation difference of proposed building site to the lowest wash elevation adjacent to the building site.
16. Location of existing roadside ditches and road culverts with size.
17. Layout of parking spaces, including handicapped, per use requirements (pertains to all except single family dwelling permits).
18. Signage must be identified but requires a separate permit.
19. Location and type of exterior lighting.
20. Location where orange card will be posted.
21. **Full size SITE PLAN must also include existing and proposed grades, building pad elevations, drainage, and, cut and fill amounts.**

Drainage Report/Plans (if required) must be in accordance with the Yavapai County Drainage Criteria Manual (See the Flood Control District with any questions).



TOWN OF DEWEY-HUMBOLDT Plot Plan Sketch and Affidavit

I certify that I am authorized by the property owner to make this application, that all information provided for this application is correct and that this plot plan, as part of the permit, indicates all structures (including fences, walls, and pads), correct property and building dimensions; setback distances; legal access and easements; road cuts; walls and/or any water course (including washes, drainage ditches etc.) on or within 50'; 100' and 200' respectively of the property. We agree to conform to all applicable laws of this jurisdiction.

Signature

Date

Orientation of Plot Plan

Dimension & Lettering ↕				
Dimension & Lettering ↔				

Document #

Sec

Twn

Rng

A P N

Zoning: _____

Stories: _____

Height: _____

Slope: _____ %

FY: _____

RY: _____

EY: _____

IY: _____

LC: _____

Lot Area _____

Lot % _____

Density Used: _____

Scale: _____

North
Arrow

MUST BE DRAWN TO SCALE PER CHECKLIST. An additional 8 1/2" x 11" sheet may be used to provide an area map for a parcel which exceeds 2 acres or dimensions of 300 feet.

Town of Dewey-Humboldt

Directions to Site

Instructions: An actual detailed line map is needed, not written instructions, adding any significant buildings, land marks, main highway, street names, and north arrows. If the map is not adequate it could cause a delay in issuing your permit.

Assessor's Parcel Number _____ Address _____



TOWN OF DEWEY-HUMBOLDT
P.O. BOX 69
HUMBOLDT, AZ 86329
Phone 928-632-7362 ▪ Fax 928-632-7365

The Town of Dewey-Humboldt has taken a pro-active role in the preservation of the night-sky through our Planning and Zoning Ordinance (08-44) Section 603 (Light Pollution Control).

In part: All light fixtures, including security lighting, shall be **aimed or shielded** so that the direct illumination shall be confined to the property boundaries of the source. Particular care is to be taken to assure that the direct illumination does not fall onto or across any public or private street or road.

Motion sensing lighting fixtures shall be properly adjusted, to turn off when detected motion ceases. Motion sensing lights can be turned to “constant ON” for the purposes of illuminating yard areas for private recreational activities so long as they are turned to their automatic setting at the conclusion of the activity.

Installation of new mercury vapor light fixtures has been prohibited since May of 1985.

Landscaping up-lighting may be acceptable, but must be approved by the Development Services Director.

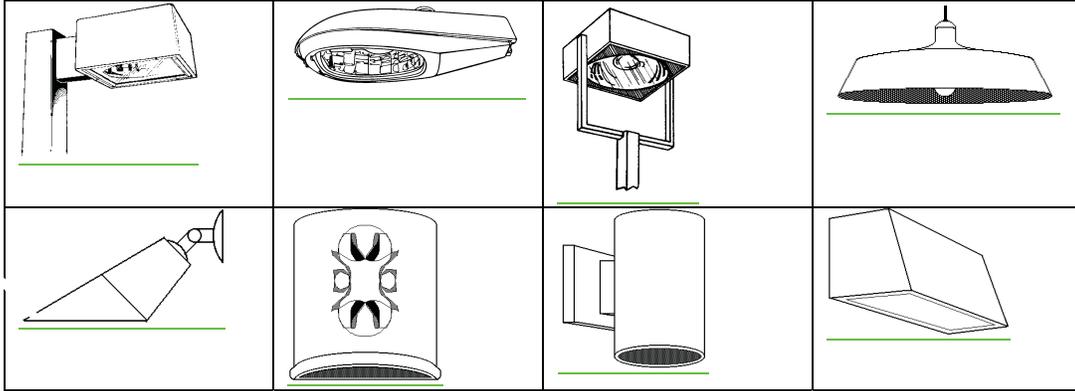
Applicant is to provide manufacturer’s cut-sheet/catalog information detailing fixture shielding and lumen output of bulbs to be installed, and where required, a drawing/illustration of the proposed shielded fixture upon application for a building permit requiring exterior lighting.

Lighting amount:	< ½ acre	7,500 Lumens
	½ to 1 acre	10,000 Lumens
	1 and greater	20,000 Lumens

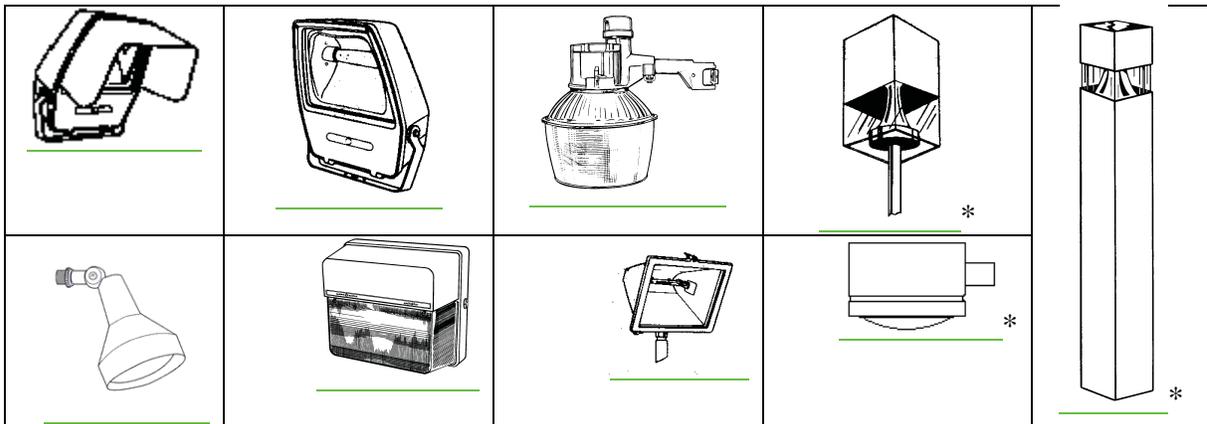
Note: Lumen is the unit used to measure the actual amount of visible light, which is produced by a lamp. Typical generic incandescent bulbs (W=Watt and L=Lumen)

60W = 840L, 75W = 1,125L, 100W = 1600L, 150W = 2,780L, 300W = 4,620L

Below are examples of fixtures that are Fully Shielded (Note: To be fully shielded these fixtures must be closed on top and mounted such that the bottom opening is horizontal).



Examples of fixtures that are NOT Fully Shielded:



*Note: even though the lamp in these fixtures is shielded from direct view when viewed from the side or above, reflective surfaces within the fixture and or lens covers *are* directly visible from the side.

If you should have questions please call 632-7362 for clarification. For commercial applications or further details you may research Town Code, Chapter 153, Zoning Regulations on the Town's website at www.dhaz.gov.

Town of Dewey-Humboldt
 Development Services
 Residential Outdoor Lighting Permit Fact Sheet
 (See Town Code Sections 153.150 – 153.153)

(Please complete the appropriate blanks as they apply to the project referenced below).

Allowable lumen parameters:

Parcels larger than 1 acre are allowed 20,000 shielded lumens.

Parcels between 1/2 acre and 1 acre are allowed 10,000 shielded lumens.

Parcels less than 1/2 acre are allowed 7,000 lumens of shielded lumens.

Examples of lumen output of typical generic incandescent bulbs (W=watt, Lm=lumen):

60W=840Lm, 75W=1125Lm, 100W=1600Lm, 150W=2780Lm, 300W=4620Lm.

NOTE: Fully automatic and properly adjusted motion sensing lights (as defined in Town Code Section 153.151) are not restricted as to number by The Town of Dewey-Humboldt Zoning Ordinance. Decorative landscape lights utilizing 4 Watt bulbs or less are also exempt.

The project at _____ on APN _____ - _____ - _____ of a parcel size of _____ acres or square feet will utilize the following outdoor lighting package:

					Shielded
Quantity	Location	Wattage	Type & Fixture	Lumens Each	Lumens Total
Example 1	Front Porch	100	Incan / S	1600	1600S
Total lumens for project					

(Incandescent=incan, Halogen-hal, Compact Fluorescent=com, MS=motion sensing)

Shielded

Remaining allowable lumens for this parcel: _____

I, the undersigned, acknowledge that The Town of Dewey-Humboldt has a Light Pollution Control Resolution and believe to the best of my understanding that the foregoing installations will be in full compliance with the Resolution. I understand that if the foregoing installations are determined not to be in full compliance with the Light Pollution Control Regulations, it shall be my responsibility to bring the installations into compliance.

 Owner or Agent

 Date