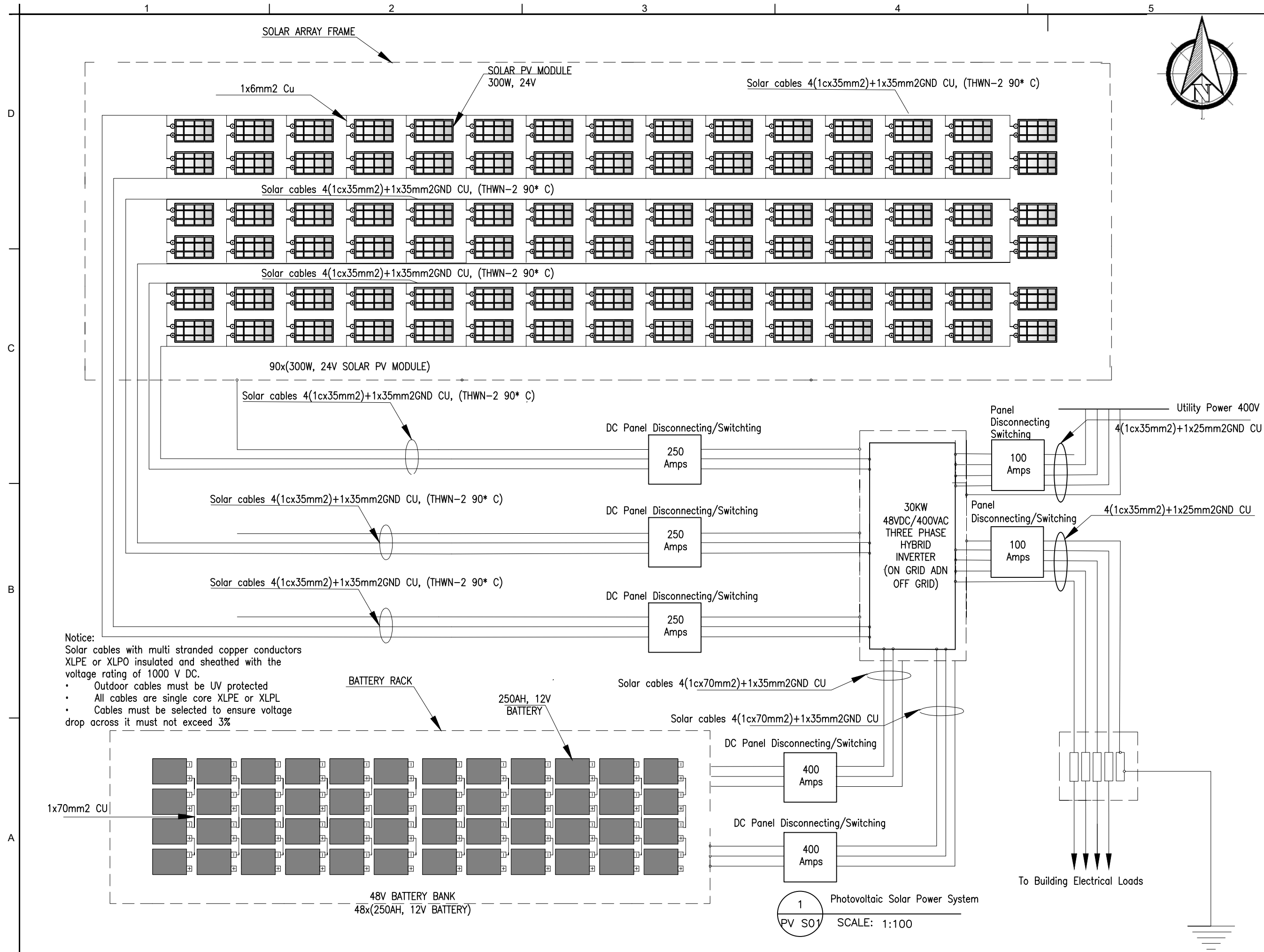
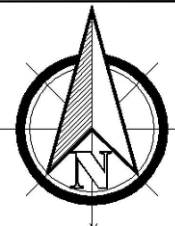




Notice:
Solar cables with multi stranded copper conductors
XLPE or XLPO insulated and sheathed with the
voltage rating of 1000 V DC.
• Outdoor cables must be UV protected
• All cables are single core XLPE or XLPL
• Cables must be selected to ensure voltage
drop across it must not exceed 3%



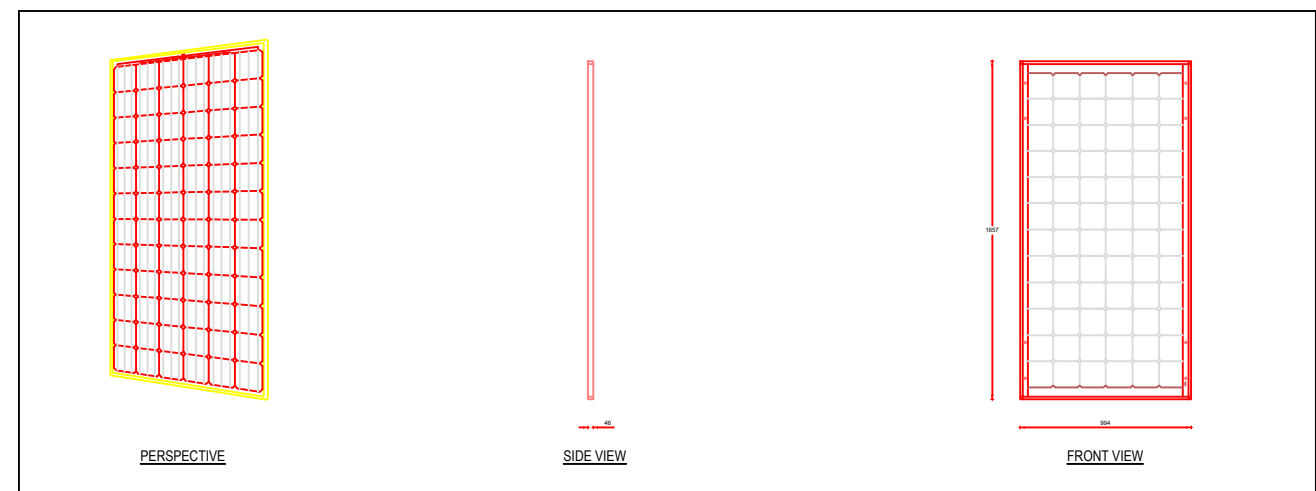
REVISION	03.09.20	XX
DATE		XX
APPROVED		XX
DESCRIPTION		XX
REV No	1	1:100
SCAL		

DATE:	03.09.20
DESIGNED BY:	W. Bary
DRAWN BY:	W. Bary
CHECKED BY:	XX
UNITED NATIONS DEVELOPMENT PROGRAM	
LOTFA PROJECT AFGHANISTAN	
KABUL MOI	
ENGINEERING DIVISION	
PERS PROJECT	

UNDP / LOTFA AFGHANISTAN
KABUL, AFGHANISTAN
BUILDING 02 - PHQ
Photovoltaic Solar Power System

SHEET NUMBER
PV S01

1
PV S01
Photovoltaic Solar Power System
SCALE: 1:100



Technical drawing of an installed solar PV module. The module is rectangular and divided into a grid of 12 cells (3 rows by 4 columns). Dimensions are indicated with red lines and arrows:

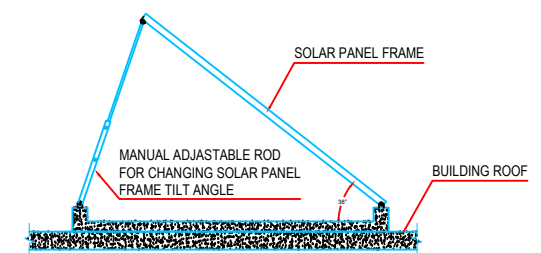
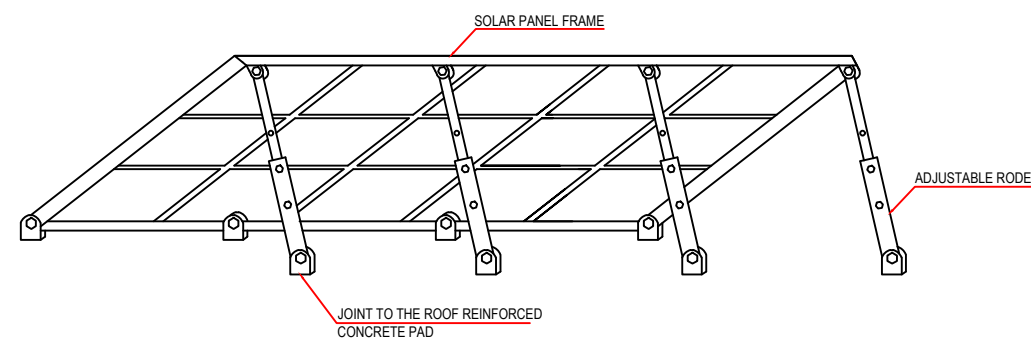
- Top horizontal dimension: 8705
- Right vertical dimension: 3302
- Bottom horizontal dimension: 1857
- Left vertical dimension: 80
- Bottom-left corner dimension: 80
- Bottom-right corner dimension: 80

Labels with arrows pointing to specific parts:

- INSTALLED SOLAR PV MODULE - 5
- ROOF SLAB JOINT

Technical drawing of a solar panel array. The array consists of 6 panels arranged in a 2x3 grid. The overall dimensions are 3200 mm in height and 6700 mm in width. The array is tilted at an angle of 30°. The mounting system includes a 100 mm wide base and a 100 mm wide top rail. The array is labeled "INSTALLED SOLAR PV MODULE - 6". The drawing also shows a "ROOF SLAB JOINT" and a "30°" tilt angle.

SEASON	TILT ANGLE	THE BEST DATE TO CHANGE THE SOLAR PANEL TILT ANGLE
WINTER	38.24	OCT 7 TO MARCH 5
SPRING	13.38	MARCH 5 TO APRIL 18
SUMMER	-9.58	APRIL 18 TO AUGUST 24
AUTUMN	13.38	AUGUST 24 TO OCT 7



Photovoltaic Solar Modules Power System Installation 4, 5 and 6

SCALE:

[illegible]

 UNITED NATIONS DEVELOPMENT PROGRAM LOTFA PROJECT AFGHANISTAN KABUL MOI	DESIGNED BY: <i>W. Asmy</i>	DATE: November 22, 2020
	CHECKED BY: XX	SUBMITTED BY: UNDP/LOFTA
ENGINEERING DIVISION	APPROVED BY: XX	CONTRACT NO.: XX
PEPS PROJECT		T.O. #:

UNDP / LOTFA AFGHANISTAN

KABUL, AFGHANISTAN

BUILDING 02 - PHQ
Photovoltaic Solar Power System Installation

SHEET
NUMBER
PV S03