TYPICAL PHOTOVOLTAIC INSTALLATION

CONDUCTOR AMPACITY IN CONDUIT = *10 THWN 40 x .63 = 28.4 / 1.23 = 22.72

ALL CONDUCTORS ARE COPPER

8 Modules in Series

3040 WATT PV ARRAY
16 EVERGREEN ES - 190W PANELS
STRING: 2 STRINGS OF 8 MODULES
Voc 32.8VDC
Vmp 26.7VDC
Isol 8.1A DC
Ipm 7.1ADC

FRONIUS IG 3000
INVERTER
240VAC
OUTPUT

M

SQUARE D
HUS61RB
30A 600VDC
DISCONNECT

20A

MAIN LOAD CENTER
200A BUS
200A MAIN

SYSTEM GROUND ELECTRODE
(EXISTING)

6 AWG BARE ON ROOF FOR MECHANICAL PROTECTION

NOTES:
(1) Recommended Permanent Signage (Yellow placards, Black lettering)
(2) On cover of Visible Disconnect - "PHOTOVOLTAIC SYSTEM DISCONNECT"
(3) On front cover of Main Service Panel - "WARNING: This panel also fed by Solar Electric Source."
(4) PV modules, string combiners, DCI, DC disconnect, inverter, AC disconnect and disconnect are UL-Listed.
(5) DC surge protection in each DC disconnect box.
(6) AC surge protection in main service panel.
(7) Interconnection will be per local utility requirements.
(8) The photovoltaic system will be installed in compliance with Article 690 of the NEC.
(9) System components comply with IEEE 1547 and UL 1741.
(10) Visible AC Disconnect is not required but is recommended.
(11) Equipment shown is typical.