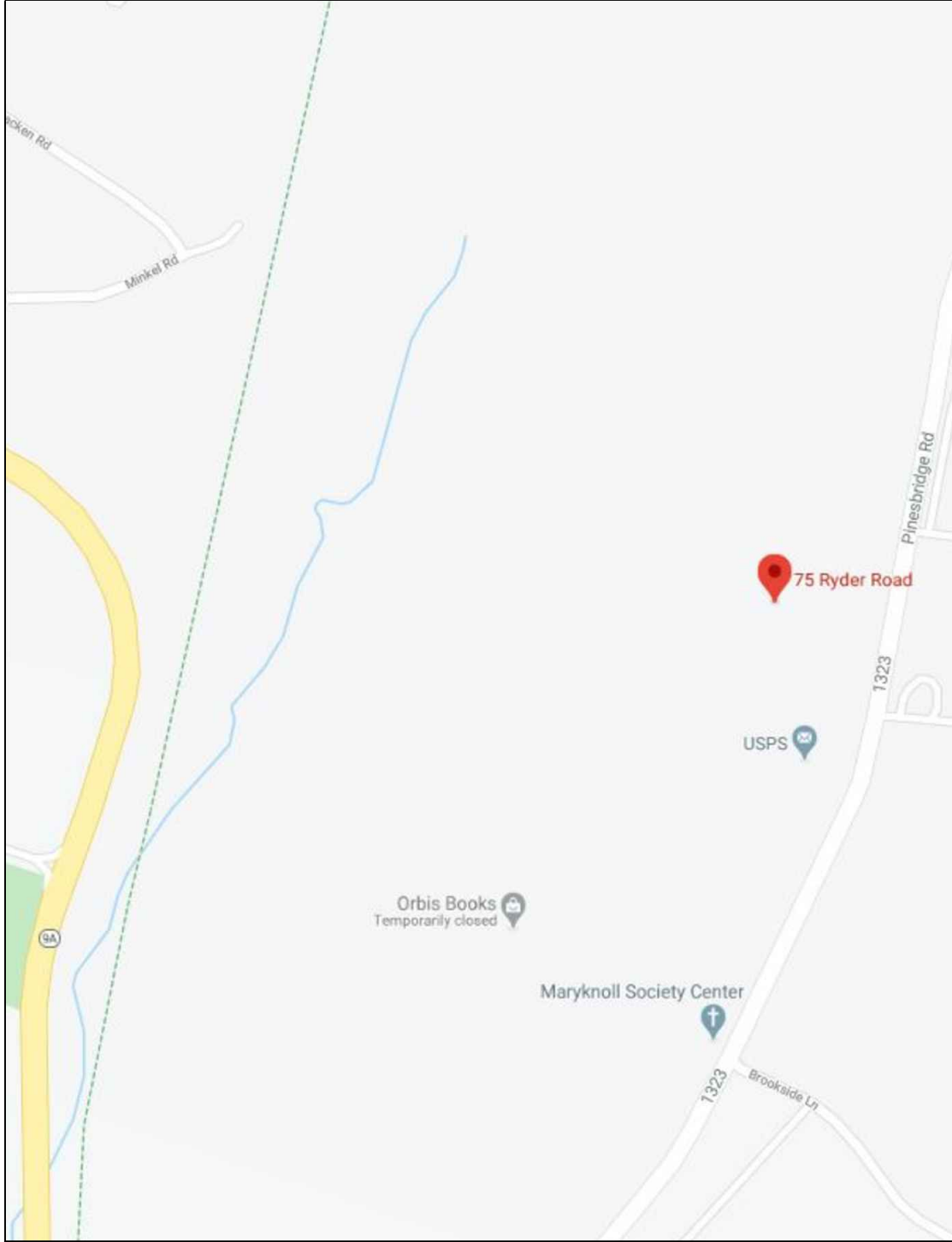




3 - ZONING INFORMATION	
- Parcel No 90.06-1-1	
- Zone R-40	
EXISTING CONDITIONS	
PARCEL SIZE (ACRES, FROM TOWN OF OSSINING GIS)	46
BUILDING COVERAGE (SQFT, FROM TOWN OF OSSINING GIS)	135,144
PAVEMENT COVERAGE (SQFT)	198,645
BUILDING COVERAGE (% OF PARCEL)	6.7%
PAVEMENT COVERAGE (% OF PARCEL)	9.9%
PROPOSED CHANGES	
SOLAR CANOPY COVERAGE OVER EXISTING PAVED PARKING AREA (SQ FT)	50,096
SOLAR EQUIPMENT COVERAGE (SQ FT)	150
ELECTRICAL TRENCHING, GROUND SURFACE BE RETURNED TO EXISTING CONDITION (SQ FT)	1650
COVERAGE INCLUDING BUILDINGS, PAVEMENT, SOLAR CANOPIES AND EQUIPMENT (SQ FT)	383,885
COVERAGE INCLUDING BUILDINGS, PAVEMENT, SOLAR CANOPIES AND EQUIPMENT (% OF PARCEL)	19.2%



Ecogy Energy
67 West St, Suite 232,
Brooklyn, NY 11222
E: projectmanagement@ecogysolar.com
P: 718-304-0945

Ecogy New York II LLC

**Preliminary Site Plan
Not for Construction**

Project Site:
Maryknoll
75 Ryder Road, Ossining
NY 10562
Utility Account Number: TBD
New Service Case #: MC-437288

Project Description:

- 2184 Talesun BIPRO TD6G72M 400W Modules
- 1092 SolarEdge P860 Optimizers
- 6 SE100K-US Inverters
- 2 SE33.3K-US Inverters

873.6kW DC, 666.6kW AC.

Array Tilt: 7°
Array Azimuth: 206°

This Site Plan is not intended for construction and is subject to change pending utility & town approval.

**Drawing
PV-100**

651 W. 17th Street
Ossining, NY 10562
Professional Stamp
ELECTRICAL ONLY

09/23/2020
Firm License Number: COA0012807
VSE Project Number: U2789.025.191

Codes & Standards:

- NEC 2014
- IBC 2015 with NY Amendments
- ConEdison DG Interconnection & Service Requirements
- Local AHJ - Ossining
- Installing contractor and all personnel onsite shall follow appropriate LOTO procedures before servicing equipment and shall be equipped with the appropriate PPE
- Contractors shall notify Dig Safe prior to construction

Sheet 1 of 1 (ARCH D)

Date	Drafter	Revision
4/13/2020	SCG/JL	A
5/6/2020	SCG/JL	B
7/23/2020	SCG/JL	C
8/25/2020	SCG	D
9/22/2020	SCG	E



Ecogy Energy
67 West St. Suite 232,
Brooklyn, NY 11222
E: development@ecogysolar.com
P: 718-304-0945

Ecogy New York II LLC

Preliminary Three Line Drawing Not for Construction

Project Site:
Maryknoll
**75 Ryder Road, Ossining
NY 10545**
Account Number: TBD
New Service Case #: MC-434527

Project Description:

- 2184 Talesun BIPRO TD6G72M 400W Modules
- 1092 SolarEdge P860 Optimizers
- 6 SE100K-US Inverters
- 2 SE33.3K-US Inverters

873.6kW DC, 666.6kW AC.

This Drawing is not intended for construction and is subject to change pending utility approval.

Drawing PV E-300



THIS DRAWING IS FOR INFORMATION PURPOSES ONLY. CERTIFICATION OR VALIDATION IS TO BE DONE BY A PROFESSIONAL WITH EXPERTISE IN THE REQUIRED FIELD AND A LICENSE IN THE STATE THAT THE INSTALLATION WILL RESIDE. CERTIFICATION OR VALIDATION TO BE INCLUDED AS PART OF THE SUBMITTALS FOR PERMITTING OF THE OVERALL PROJECT.

Professional Stamp



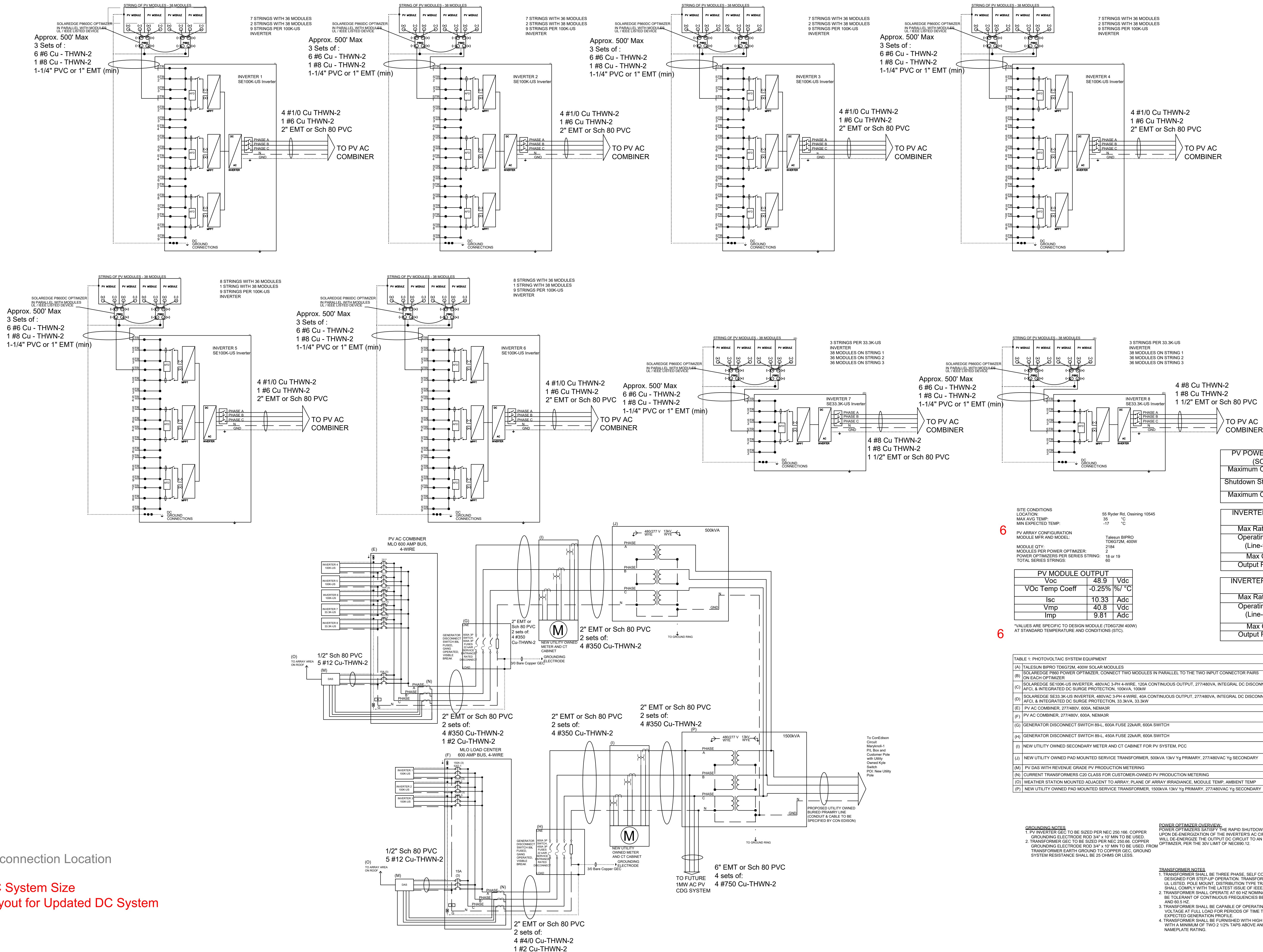
Firm License Number: COA0012807
VSE Project Number: U2789.025.191

Codes & Standards:

- NEC 2014
- IBC 2015 with NY Amendments
- Con Edison DG Interconnection & Service Requirements
- Local AHJ - Ossining

Sheet 1 of 1 (ARCH D)

Date	Drafter	Revision
7/26/2019	PV	A
8/9/2019	PV	B
8/20/2019	PV	C
9/30/2019	LZ	D
8/27/2020	SCG	E
9/22/2020	SCG	F



6

SITE CONDITIONS	55 Ryder Rd, Ossining 10545
LOCATION:	35 °C
MAX AVG TEMP:	-17 °C
MIN EXPECTED TEMP:	
PV ARRAY CONFIGURATION	Talesun BIPRO TD6G72M 400W
MODULE MFR AND MODEL:	2184
MODULE QTY:	2
MODULES PER POWER OPTIMIZER:	16 or 19
POWER OPTIMIZERS PER SERIES STRING:	2
TOTAL SERIES STRINGS:	10

6

PV MODULE OUTPUT	
Voc	48.9 Vdc
Voc Temp Coeff	-0.25% %/°C
Isc	10.33 Adc
Vmp	40.8 Vdc
Imp	9.81 Adc

*VALUES ARE SPECIFIC TO DESIGN MODULE (TD6G72M 400W) AT STANDARD TEMPERATURE AND CONDITIONS (STC).

TABLE 1: PHOTOVOLTAIC SYSTEM EQUIPMENT	
(A) TALESUN BIPRO TD6G72M 400W SOLAR MODULES	2184
(B) SOLAREGE P860 POWER OPTIMIZER, CONNECT TWO MODULES IN PARALLEL, TO THE TWO INPUT CONNECTOR PAIRS ON EACH OPTIMIZER	1092
(C) SOLAREGE SE100K-US INVERTER, 480VAC 3-PH 4-WIRE, 120A CONTINUOUS OUTPUT, 277/480VAC, INTEGRAL DC DISCONNECT, AFCI, & INTEGRATED DC SURGE PROTECTION, 100VA, 100W	6
(D) SOLAREGE SE33.3K-US INVERTER, 480VAC 3-PH 4-WIRE, 40A CONTINUOUS OUTPUT, 277/480VAC, INTEGRAL DC DISCONNECT, AFCI, & INTEGRATED DC SURGE PROTECTION, 33.3kVA, 33.3kW	2
(E) PV AC COMBINER, 277/480V, 800A, NEMA3R	1
(F) PV AC COMBINER, 277/480V, 800A, NEMA3R	1
(G) GENERATOR DISCONNECT SWITCH 89-L, 600A FUSE 22KAIR, 600A SWITCH	1
(H) GENERATOR DISCONNECT SWITCH 89-L, 450A FUSE 22KAIR, 600A SWITCH	1
(I) NEW UTILITY OWNED SECONDARY METER AND CT CABINET FOR PV SYSTEM, PCC	2
(J) NEW UTILITY OWNED PAD MOUNTED SERVICE TRANSFORMER, 500kVA 13kV Yg PRIMARY, 277/480VAC Yg SECONDARY	2
(K) NEW UTILITY OWNED PAD MOUNTED SERVICE TRANSFORMER, 1500kVA 13kV Yg PRIMARY, 277/480VAC Yg SECONDARY	1

GROUNDING NOTES

1. PV INVERTER GEC TO BE SIZED PER NEC 250.166, COPPER
2. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
3. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
4. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
5. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
6. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
7. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
8. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
9. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER
10. TRANSFORMER GEC TO BE SIZED PER NEC 250.160, COPPER

POWER OPTIMIZER OVERVIEW:

POWER OPTIMIZERS SATISFY THE RAPID SHUTDOWN REQUIREMENTS OF NEC900.12. UPON DE-ENERGIZATION OF THE INVERTERS AC CIRCUIT, THE POWER OPTIMIZERS WILL DE-ENERGIZE THE OUTPUT DC CIRCUIT TO AN OPEN CIRCUIT OF 1VOLT PER OPTIMIZER, PER THE 30V LIMIT OF NEC900.12.

TRANSFORMER NOTES

1. TRANSFORMER SHALL BE THREE PHASE, SELF COOLED, AND DESIGNED FOR STEP-UP OPERATION. TRANSFORMER SHALL BE UL LISTED, POLE MOUNT, DISTRIBUTION TYPE TRANSFORMERS SHALL COMPLY WITH THE LATEST ISSUE OF IEEE/ANSI C57.12.34.
2. TRANSFORMER SHALL OPERATE AT 60 HZ NOMINAL AND SHALL BE TOLERANT OF CONTINUOUS FREQUENCIES BETWEEN 57.0 HZ AND 60.5 HZ.
3. TRANSFORMER SHALL BE CAPABLE OF OPERATING AT 1.1 P.U. VOLTAGE AT FULL LOAD FOR PERIODS OF TIME TYPICAL OF THE EXPECTED GENERATION PROFILE.
4. TRANSFORMER SHALL BE FURNISHED WITH HIGH VOLTAGE TAPS WITH A MINIMUM OF TWO 1/2% TAPS ABOVE AND BELOW NAMEPLATE RATINGS.

REV E
5- Changed Interconnection Location
REV F
6- Decreased DC System Size
7- New String Layout for Updated DC System