EQUIPMENT SCHEDULE			
TAG	DESCRIPTION	PART NUMBER	NOTES
1	SOLAR PV MODULE	–	APPROVED BY GO SOLAR
2	PV ARRAY	–	APPROVED BY GO SOLAR
3	J–BOX (IF USED)	–	PER NEC
4	COMBINER (IF USED)	–	PER MFG. (MAY BE IN INVERTER)
5	DC DISCONNECT	–	PER MFG. (MAY BE IN INVERTER)
6	DC/AC INVERTER	–	PER MFG.
7	GEN METER (IF USED)	–	PER MFG.
8	AC DISC (IF USED)	–	SHALL COMPLY WITH NEC 690.15,16,17
9	SERVICE PANEL	–	200A, 240V

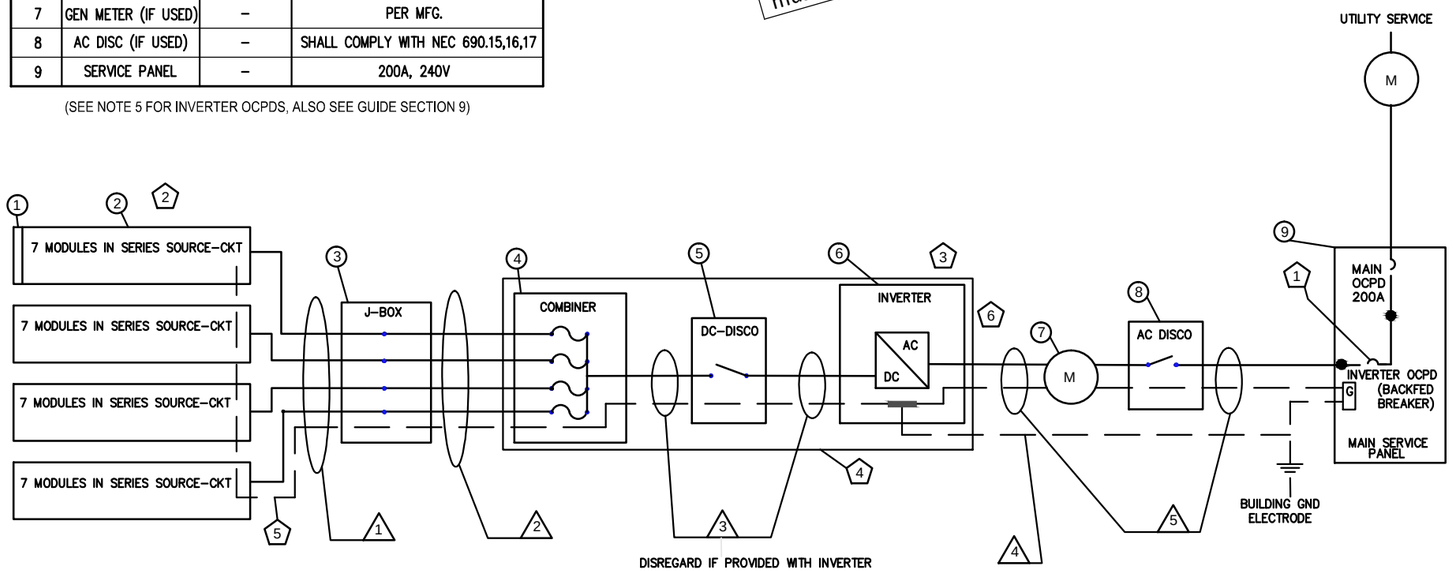
(SEE NOTE 5 FOR INVERTER OCPDS, ALSO SEE GUIDE SECTION 9)

	App. By	Date
Plan Review	NA	05/30/ 2013
Building	T. DEVIER	05/30/ 2013
Electric		

Note: This plan is invalid unless accompanied by a Go SOLAR permit card and Go SOLAR permit document. Plans must be on job before any inspection will be made.

ENRIQUE SOSA JR. LICENSE No. 53885 STATE OF FLORIDA PROFESSIONAL ENGINEER

DN: c=US, st=Florida, l=Coral Gables, email=enrique.sosa@tylin.com, o=TY Lin International, cn=Enrique Sosa
Date: 2013.05.30 11:40:40 -04'00'



(SEE GUIDE APPENDIX C FOR INFORMATION ON MODULE & ARRAY GROUNDING)

7 MODULES IN SERIES SOURCE-CKT				
NO. OF STRINGS	NO. MODULES	WATTS	VOLTAGE TYPE	Voc
1 STRING	7 MODULES	1750 W	TOTAL Voc	259 V
	EA/MODULE	250 W	Voc PER MODULE	37 V
1 STRING	7 MODULES	1750 W	TOTAL Voc	259 V
	EA/MODULE	250 W	Voc PER MODULE	37 V
1 STRING	7 MODULES	1750 W	TOTAL Voc	259 V
	EA/MODULE	250 W	Voc PER MODULE	37 V
1 STRING	7 MODULES	1750 W	TOTAL Voc	259 V
	EA/MODULE	250 W	Voc PER MODULE	37 V
1,750 WATT SYSTEM 4 STRINGS AND 7 MODULES AMPS = 36.4 A				

KEY NOTES:

1. SIZE BACKFED BREAKER PER MFG. ALL BACK FED BRK. SHALL BE LINE–LINE LISTED. BACKFED BRK. SHALL NOT BE MORE THAN 20% OF BUS
2. MODULES SHALL BE LISTED TO UL STANDARDS 1703
3. INVERTERS SHALL BE LISTED TO UL STANDARDS 1741.INVERTER TO BE WITHIN 10' OF SERVICE, WITHIN SIGHT OF INVERTER OR LOCKABLE
4. COMBINER, DC–DISCONNECT AND INVERTER MAY COMBINE WITHIN ONE INVERTER UNIT
5. EQ. GND. COND. (EGC) SHALL BE SIZED PER NEC 690.45 (A)
6. INVERTER OUTPUT CONN. SHALL BE SIZED PER NEC 690.64(B)(7)

CONDUIT/CONDUCTOR SCHEDULE					
TAG	DESCRIPTION	CONDUCTOR TYPE	CONDUCTOR GAGE	COND. TYPE	NOTES
1	EA/MODULE TO JBOX	USE 2 OR PV WIRE & EGC	1 #10 & 1#10 GND	PER NEC	EGC SMALLER THAN #6 AWG SHALL BE PROTECTED NEC 250.120C
2	JBOX TO COMBINER	THWN–2/XHHW–2/RHW–2 & EGC	1 #10 & 1 #10 GND	PER NEC	(IF COMBINER USED, OTHERWISE GO DIRECTLY FROM JBOX TO INVERTER)
3	TO/FROM DC DISCONNECT	THWN–2/XHHW–2/RHW–2 & INSULATED EGC	1 #6 & 1 #6 GND	PER NEC	(IF DC DISCONNECT USED, OTHERWISE GO DIRECTLY FROM JBOX TO INVERTER)
4	MAIN OCPD TO INVERTER	DC GROUNDING ELECTRODE CONDUIT	1 #6 & 1 #6 GND	PER NEC	EQ. GND. COND. (EGC) SHOULD BE SIZED NEC 690.45 (A)
5	TO/FROM AC DISCONNECT	THWN–2/XHHW–2/RHW–2 & INSULATED EGC	1 #6 & 1 #6 GND	PER NEC	(IF METER NOT USED GO DIRECTLY FROM INVERTER TO AC DISC.)

NO.	DATE	REVISIONS	BY	CHK	APRV

T·Y·LIN INTERNATIONAL
201 ALHAMBRA CIRCLE • SUITE 900
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SEAL

		DATE
DESIGNED BY	SM	02/13
DRAWN BY	SM	02/13
CHECKED BY	ES	02/13
PRJ. ENG.	GV	02/13

7 KW PV SYSTEM ELECTRIC DIAGRAM
EXPEDITED PERMIT FORM

BROWARD COUNTY

GO SOLAR PROJECT

SCALE: AS SHOWN
CONTRACT NO.: N/A
DRAWING NO. | SHEET NO.

100% PLANS
FINAL
MARCH, 2013

Drawing name: \\tylin-svr-fls\FV5311.00.04 Go Solar\Dwgs\Phase 2\Electrical\Sitedgsystem-7KW-SM - CAD.dwg Model May 07, 2013 9:29am by: smoore