



NOTES:

- ① YELLOW PLACARD, BLACK LETTERING AT EXISTING METER - "PHOTOVOLTAIC SYSTEM CONNECTED".
- ② **30A BACK FEED BREAKER**, LABELED: INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE
- ④ PROVIDE 240V, 30A NEMA 3R DISCONNECT. SHALL BE VISIBLE, ACCESSIBLE, LOCKABLE AND LABELED "PV AC DISCONNECT", LOCATED WITHIN 5' OF UTILITY BILLING METER.
- ⑥ SOLAR MODULE, BONDED WITH LAY IN LUGS AND #6 BARE COPPER. SEE TITLE BLOCK FOR SPECIFICATIONS
- ⑦ MICRO INVERTER, SEE TITLE BLOCK FOR SPECIFICATIONS
- ⑧ PV AC COMBINER PANEL, MIN 60A BUSS, (2) TWO POLE BREAKERS. STRING A: 20A, STRING B: 20A
- ⑨ EXISTING MDP, 200A BUSS, 200A MAIN BREAKER.

GENERAL NOTES:

- (1) EQUIPMENT SHALL BE INSTALLED AND LABELED IN ACCORDANCE WITH NEC 690 AND ALL APPLICABLE REQUIREMENTS BY UTILITY AND LOCAL AUTHORITY HAVING JURISDICTION.

FEEDER SCHEDULE

①	#6 BARE AWG GROUND
②	(2) ENPHASE Q CABLE
③	10/3 UF-B IN TRENCH
④	(3) #10 THWN, (1) #10 THWN GRND IN CONDUIT

MODULE SPECIFICATIONS

MAKE	URE	MODEL	385
P _{MAX}	385	V _{OC}	48.3
V _M	40.1	I _{SC}	10.1
I _M	9.6	TEMP COEF. V _{OC}	-.30%/C

INVERTER SPECIFICATIONS

MAKE	ENPHASE	MODEL	IQ7+
MAX DC INPUT	48	MAX DC CURRENT INPUT	15
RATED OUPUT POWER	295	MAX OUTPUT CURRENT	1.21
MAX UNITS PER BRANCH	13		

INVERTER CALCULATIONS

BRANCH	# OF INVERTERS	# OF MODULES	INV. MAX CURRENT	BRANCH MAX CURRENT	MAX CURRENT 125%
A	8	8	1.21	9.68	12.1
B	8	8	1.21	9.68	12.1

EXISTING MDP BACKFEED CALCULATIONS

MAKE	BUS RATING	MAIN BREAKER SIZE	MAX BACKFEED BREAKER SIZE
SQ D HO	200	200	40

STEWART PV SYSTEM
20835 CAMINO REPOSADO POINT
FOUNTAIN, CO 80817

REVISIONS

REV. NO.	DESCRIPTION	DATE
001	PRELIMINARY	00.00.00

DRAWING NAME
ONE LINE

SCALE 1/8" = 1'-0"
PAPER SIZE 11" X 17"
REVISION 001
DRAWN BY JMM

SHEET NO.

E105

PROJECT NO.
DATE 11.11.2020