



DRAWING NOTES

1. VERIFY EQUIPMENT RATINGS ACROSS ALL RELEVANT DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCUREMENT AND/OR SITE CONSTRUCTION.
2. EQUIPMENT TAG LABELING IS SHOWN AS TYPICAL CONVENTION. ACTUAL EQUIPMENT CONFIGURATION WITHIN A SUB-DISTRIBUTION SHED (IE. FOR "1" OR "2" SIDE EQUIPMENT) MAY VARY BASED ON SITE NEEDS. CONTRACTOR TO UPDATE EQUIPMENT TAGS AS NEEDED TO REFLECT AS-BUILT CONDITIONS AND MAINTAIN REDLINE WORKING DRAWINGS AS SPECIFIED.
3. PHASES FOR 120V SHED "HOUSE PANEL" TO BE SELECTED TO OPTIMIZE LOAD BALANCE ON FEEDER. CONTRACTOR TO FIELD-SELECT MOST SUITABLE FEEDER AND PHASES BASED ON DOWNSTREAM AS-BUILT CONDITIONS TO BALANCE CONNECTED LOAD AS MUCH AS PRACTICAL. LAMACOD LABELS ON CELLS SHALL REFLECT AS-BUILT CONDITIONS.

CONSTRUCTION NOTES

1. WIRE GAUGE FROM MAIN SHED TO SUBSHED TO BE:
 - SUITABLE FOR 144kVA, 140A 600V 3PH, DERATED PER CEC TABLE 5C
 - 4/0 AWG FOR MAX OF 2X 3C RUNS IN ONE BORE (6 CONDUCTORS)
 - 250MCM FOR MORE THAN 2X 3C RUNS IN ONE BORE (7+ CONDUCTORS)
2. WIRE GAUGE FROM SUBSHED TO DWELLING BLOCK JUNCTION BOX TO BE:
 - FOR UNITS #1 AND #28, SUITABLE FOR 130A 208V 2P, DERATED PER CEC TABLE 5C
 - 4/0 AWG FOR MAX OF 2X 3C RUNS IN ONE BORE (6 CONDUCTORS)
 - 250MCM FOR MORE THAN 2X 3C RUNS IN ONE BORE (7+ CONDUCTORS)
 - FOR OTHER 57 TYPICAL UNITS, SUITABLE FOR 117A 208V 2P, DERATED PER CEC TABLE 5C
 - 3/0 AWG FOR MAX OF 2X 3C RUNS IN ONE BORE (6 CONDUCTORS)
 - 4/0 AWG FOR MORE THAN 2X 3C RUNS IN ONE BORE (7+ CONDUCTORS)
 - ALL ABOVE ARE TO A MAXIMUM OF 5 CABLES IN SAME BORE (INCLUDING ANY CONDUCTORS FOR PV SYSTEM). CONTACT ENGINEER FOR OTHER SCENARIOS ENCOUNTERED DURING CONSTRUCTION.
3. WIRE GAUGE FROM DWELLING BLOCK JUNCTION BOX TO DWELLING UNIT PANEL TO BE:
 - FOR UNITS #1 AND #28, #2/0 AWG
 - FOR OTHER 57 TYPICAL UNITS, #1/0 AWG FOR LENGTH SHORTER THAN 35m, #2/0 AWG FOR LENGTHS 35m AND LONGER
4. DISCONNECT AND SERVICE RATING TO BE 125A SERVICE FOR TYP. 57 UNITS AND 150A SERVICE FOR UNIT #1 & UNIT #28 (UNITS NUMBERED PER GENERAL CONTRACTOR'S LAYOUT)

DISTRIBUTION LOAD SUMMARY					
SHED	SOLAR CO-OP	# OF UNITS	# OF STALLS	# EV CHRG	UTILITY LOAD (kW)
SHED 1	CO-OP 1-1	8	8	0	139.9
	CO-OP 1-2	7	0	0	121.2
SHED 2	CO-OP 2-1	9	0	0	142.1
	CO-OP 2-2	6	12	2	137.3
SHED 3	CO-OP 3-1	6	0	0	106.7
	CO-OP 3-2	7	9	2	143.6
SHED 4	CO-OP 4-1	8	0	0	134.0
	CO-OP 4-2	8	8	0	139.9
MAIN DISTRIBUTION (UTILITY SERVICE)		59	37	4	772.9

UTILITY LOAD BASIS:
ASSUMED 3.0kW/UNIT + 50%(EV+PARKING)

CEC DEMAND BASIS:
DOWNSTREAM DWELLING LOADS PER CEC 8-202(3)
+ 100%(OTHER DIST PANEL LOADS)



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#	DATE	ISSUED FOR
03	2020.10.26	CONSTRUCTION
02	2020.07.02	PERMIT
01	2020.04.22	PERMIT
00	2020.03.16	CLIENT REVIEW

PROJECT NO.
C20-826

PROJECT
SUNDANCE CO-OP
POWER
DISTRIBUTION

LOCATION

DESCRIPTION
SINGLE LINE
DIAGRAM

SHEET SIZE
ARCH D

E3