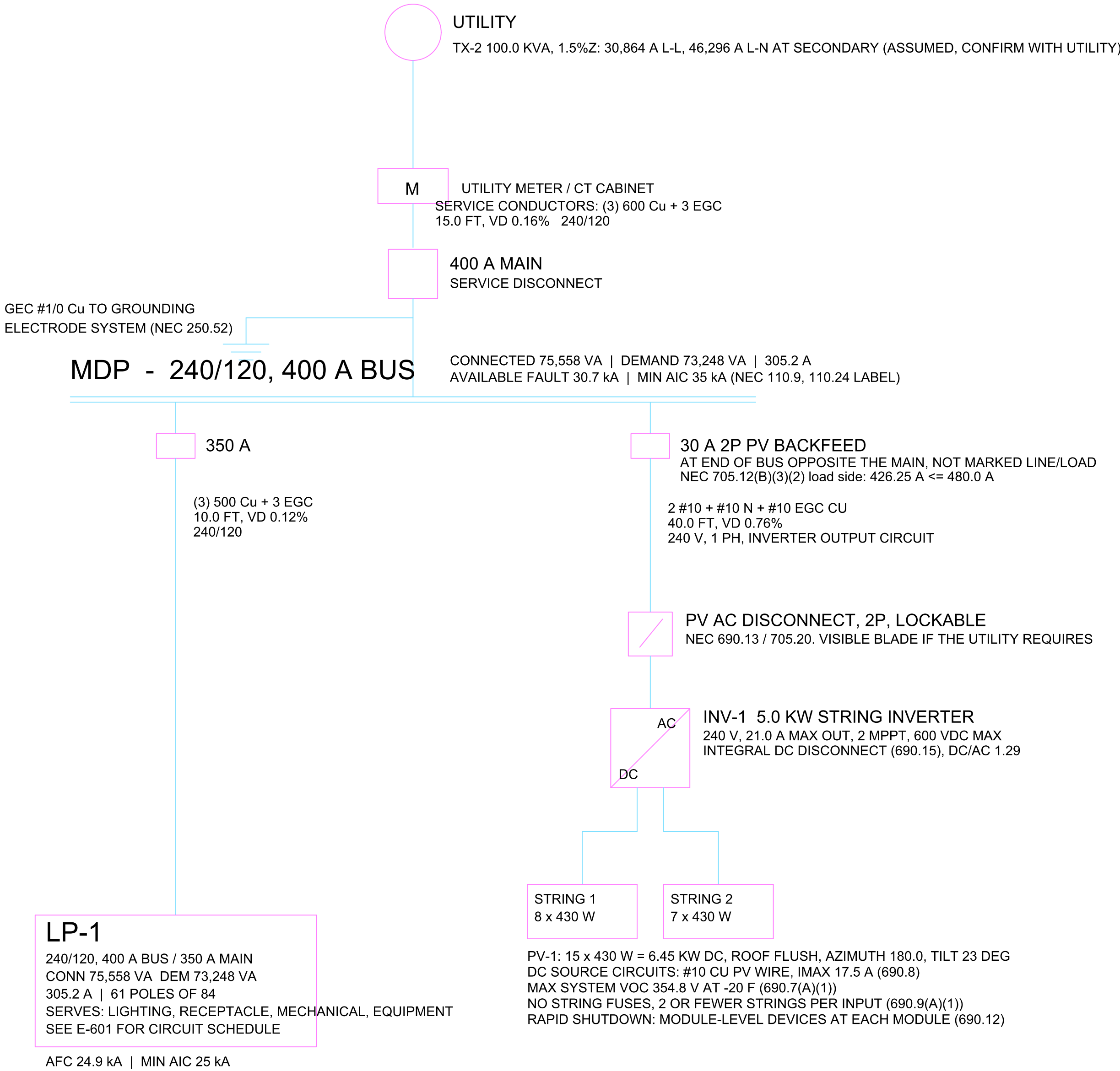


ELECTRICAL SINGLE-LINE DIAGRAM (SCHEMATIC - NOT TO SCALE)

DRAFT - GENERATED FROM electrical_sizes.yaml - VERIFY BEFORE ISSUE



NOTES:
1. DIAGRAM IS SCHEMATIC. CONDUCTOR CALLOUTS, OCPD RATINGS, AND VOLTAGE DROP ARE FROM THE NEC 220 SERVICE CALCULATION (SEE DESIGN.xlsx ELECTRICAL TAB).
2. NEC 2020 (NFPA 70-2020) -- VERIFY AGAINST THE AHJ-ADOPTED EDITION. CONFIRM THE EDITION ADOPTED BY THE AHJ.
3. CONDUCTORS ARE COPPER, 75 C TERMINATION RATING PER NEC 110.14(C), EGC PER NEC TABLE 250.122.
4. AVAILABLE FAULT CURRENT BY THE POINT-TO-POINT METHOD (fault_current.py), MOTOR AND INVERTER CONTRIBUTION INCLUDED. UTILITY TRANSFORMER BASIS: ASSUMED: REC HAS NOT SIZED PAD TX-2; 100 KVA 1-PH, 1.5%Z, INFINITE-BUS PRIMARY. EVERY BREAKER AND BUS FULLY RATED AT OR ABOVE THE MIN AIC SHOWN (NO SERIES RATINGS, NEC 240.86), FIELD MARK SERVICE EQUIPMENT PER NEC 110.24 AND 110.16. RERUN WHEN THE UTILITY GIVES TRANSFORMER KVA, %Z AND PRIMARY FAULT DUTY.
5. EQUIPMENT MCA VALUES FLAGGED AS ESTIMATES IN THE EQUIPMENT SCHEDULE MUST BE REPLACED WITH VENDOR NAMEPLATE DATA BEFORE ISSUE.
6. PV SYSTEM PER NEC 690 AND 705 FROM pv_sizing.py. MODULE AND INVERTER ARE BASIS OF DESIGN; RECHECK STRING VOLTAGE (690.7) AND THE 120% BUS RULE (705.12) FOR THE SUBMITTED EQUIPMENT. INTERCONNECTION AGREEMENT WITH RAVALLI ELECTRIC CO-OP BEFORE OPERATION.

FLAG: FAULT CURRENT: TX-2 DATA IS ASSUMED: REC HAS NOT SIZED PAD TX-2; 100 KVA 1-PH, 1.5%Z, INFINITE-BUS PRIMARY. GET KVA, %Z AND PRIMARY FAULT MVA FROM THE UTILITY, THEN RERUN BEFORE EQUIPMENT RELEASE.

GENERATED FROM electrical_sizes.yaml topology[] (source_hash e86429b803e9, generated 2026-10-01T18:37:17+00:00) - DO NOT EDIT MANUALLY - rerun electrical_sheets.py

SUTTON MECHANICAL & ENVIRONMENTAL
PROJECT NO: 2026-12
PROJECT: FARMWILD ORANGERY
CLIENT: FARMWILD



ELECTRICAL SINGLE-LINE DIAGRAM

DRAWN BY: MS
DATE: 2026-09-30

E-701
REV: A