



VAULT ADDITIONS ONE LINE DIAGRAM

NOTES:

- EXISTING ONE LINE DIAGRAM WIRING IS BASED ON FIELD DATA AND INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND WIRING AND REPORT ANY VARIATIONS TO THE RESIDENT ENGINEER.
- EQUIPMENT AND WIRING NOT LABELED AS "EXISTING" IS NEW.
- ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER, AND RESIDENT ENGINEER.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (NEC MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL CONFIRM INPUT POWER REQUIREMENTS WITH THE ACTUAL NAMEPLATE ON THE CONSTANT CURRENT REGULATOR AND ADJUST CIRCUIT BREAKER, WIRE SIZES, & CONDUIT SIZES TO CONFORM WITH NEC AND MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE. WIRE SIZES SHOWN ON THE PLANS ARE ADJUSTED FOR NEC DERATING FACTORS AND ARE MINIMUM.
- BRANCH CIRCUITS TO REGULATORS SHALL BE INSTALLED IN THE RESPECTIVE LOW VOLTAGE WIREWAY/DUCT, WITH GRSC AT TRANSITIONS AND UL LISTED LIQUID TIGHT FLEXIBLE METAL CONDUIT AT FINAL CONNECTIONS TO THE REGULATORS. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NEC.
- BOND NEW REGULATOR TO THE RESPECTIVE VAULT GROUND BUS WITH A DEDICATED #6 AWG BONDING JUMPER.
- LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6, SUITABLE FOR GROUNDING AND SUNLIGHT RESISTANT. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS NOT UL LISTED.
- LOW VOLTAGE WIRING (600V & BELOW) SHALL MAINTAIN SEPARATION FROM HIGH VOLTAGE WIRING (5000V). LOW VOLTAGE WIRING SHALL NOT BE INSTALLED IN THE SAME RACEWAY, PULLBOX, OR HANDHOLE AS THE HIGH VOLTAGE WIRING.
- FURNISH & INSTALL A 15 AMP, 1 POLE BOLT-ON BRANCH BREAKER WITH 10,000 AIC AT 120 VAC IN PANEL "A" FOR THE PHOTOCELL CONTROL CIRCUIT.

DATE	REVISION	BY

QUINCY REGIONAL AIRPORT
BALDWIN FIELD
ADAMS COUNTY, ILLINOIS

IL PROJ.: JUN-3618 A.I.P. PROJ.: 3-17-0085-XX

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			REVIEWED CAH 05/18/06

HANSON
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INSTALL WIND CONES
PROPOSED VAULT ADDITIONS
ONE LINE DIAGRAM

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