



NEW ELECTRICAL ONE LINE DIAGRAM FOR VAULT

NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
2. 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 WILL NOT BE PERMITTED.
3. ALL EQUIPMENT NOT LABELED AS "EXISTING" IS NEW.
4. ADDITIONAL EXISTING CIRCUITS NOT SHOWN FOR CLARITY.
5. HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY.
6. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED TO MEET NEC 350.6.
7. VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109200.
8. STEP DOWN TRANSFORMER FOR REILS SHALL BE LOCATED AS SHOWN ON THE PROPOSED ELECTRICAL PLAN SHEETS. FIELD VERIFY LOCATION OF STEP DOWN TRANSFORMER AND ASSOCIATED SAFETY SWITCHES WITH RESIDENT ENGINEER.
9. RELOCATION OF REILS SHALL BE PAID FOR UNDER ITEM AR125967 RELOCATE REILS - PER PAIR.
10. PROVIDE HOT DIPPED GALVANIZED STEEL STRUT SUPPORT, UNISTRUT P1000HG, OR APPROVED EQUAL, TO MOUNT EQUIPMENT.

KEYED NOTES

- 1 TRANSFORMER SECONDARY NEUTRAL SHALL BE BONDED TO GROUND.
- 2 30 AMP, 3 POLE, 600 VAC, UL LISTED HEAVY DUTY NOT FUSIBLE SAFETY SWITCH IN A NEMA 3R & 12 ENCLOSURE WITHOUT KNOCKOUTS, SQUARE D CLASS 3110, CAT. NO. HU361AWK WITH NEUTRAL ASSEMBLY, OR APPROVED EQUAL. INCLUDE EQUIPMENT GROUND KIT. USE CENTER POLE FOR SINGLE PHASE APPLICATION WITH ONLY ONE HOT CONDUCTOR. LOCATE NEAR MASTER REIL UNIT OUTSIDE RUNWAY SAFETY AREA.
- 3 BOND NEUTRAL TO GROUND WITH #8 AWG CU BONDING JUMPER OR BONDING SCREW IN CONFORMANCE WITH 2005 NEC 250.32
- 4 10'L x 3/4" DIA UL LISTED COPPERCLAD GND ROD. MIN. BURY 30" BELOW GRADE. ALL CONNECTIONS TO GND RODS SHALL BE EXOTHERMIC WELD.
- 5 FURNISH & INSTALL GROUND LUGS/BAR IN SERVICE DISCONNECT TO ACCOMMODATE GROUND WIRES. NEUTRAL SHALL BE BONDED TO GROUND. BOND SERVICE DISCONNECT ENCLOSURE TO VAULT GROUND BUS WITH #2 AWG COPPER GROUNDING ELECTRODE CONDUCTOR.
- 6 FURNISH & INSTALL #6 AWG COPPER EQUIPMENT GROUND WIRE FROM SERVICE DISCONNECT TO VAULT PANELBOARD. ROUTE WITH EXISTING FEEDER CONDUCTORS.
- 7 FURNISH & INSTALL COPPER EQUIPT. GROUND BAR WITH 12 TERMINALS/TAPS SUITABLE FOR #14 AWG TO #4 AWG CONDUCTORS, ILSCO CAT. NO. D167-12 OR EQUAL.
- 8 SEE SPECIAL PROVISION SPECS ITEM 109 FOR NEW CONSTANT CURRENT REGULATOR REQUIREMENTS.
- 9 FURNISH & INSTALL A NEW CIRCUIT BREAKER FOR THE CONSTANT CURRENT REGULATOR SIZED PER THE RESPECTIVE CCR MANUFACTURER'S RECOMMENDATION AND NEC.

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