



VAULT BUILDING NOTES:

THE PROPOSED ELECTRICAL VAULT BUILDING SHALL CONSIST OF A PRE-FABRICATED, PRE-ENGINEERED EQUIPMENT ENCLOSURE BUILDING WITH A CONCRETE FLOOR, STEEL SKID STRUCTURE AND FOUNDATION PEIRS OR WITH CONCRETE SLAB FOUNDATION.

THE PROPOSED ELECTRICAL VAULT BUILDING SHALL HAVE A NOMINAL 12 FOOT WIDE EXTERIOR (INTERIOR WIDTH SHALL NOT BE LESS THAN 11 FEET, ADJUST EXTERIOR WIDTH AS APPLICABLE) BY NOMINAL 29 FEET IN LENGTH (INTERIOR LENGTH SHALL NOT BE LESS THAN 27 FEET, ADJUST EXTERIOR AS APPLICABLE) BY NOMINAL 9 FEET HIGH INTERIOR (FLOOR TO CEILING).

- GENERAL NOTES:**
- SEE "PROPOSED AIRFIELD VAULT ONE-LINE DIAGRAM" FOR RATING AND CONDUIT AND CABLE INFORMATION FOR LOW VOLTAGE EQUIPMENT.
 - SEE "PROPOSED AIRFIELD VAULT ONE-LINE DIAGRAM" FOR LOW VOLTAGE INPUT POWER WIRING REQUIREMENTS TO CCR'S (CONSTANT CURRENT REGULATORS). SEE "HIGH VOLTAGE WIRING SCHEMATIC" FOR CCR OUTPUT WIRING REQUIREMENTS. SEE "AIRFIELD LIGHTING CONTROL WIRING SCHEMATIC" FOR CCR CONTROL WIRING REQUIREMENTS. PROVIDE 5 FEET MINIMUM CLEAR WORKING SPACE IN FRONT OF EACH CCR AND EACH SERIES PLUG CUTOFF.
 - CONSTANT CURRENT REGULATORS AND THEIR RESPECTIVE SERIES PLUG CUTOFFS SHALL BE CLEARLY LABELED TO IDENTIFY THE RESPECTIVE REGULATOR DESIGNATION, RUNWAY OR TAXIWAY SERVED, POWER SOURCE OR CIRCUIT, AND VOLTAGE SYSTEM.
 - SEE ELEVATION VIEWS FOR ADDITIONAL INFORMATION ON PROPOSED EQUIPMENT LAYOUTS.
 - COORDINATE CONDUIT & SLEEVE ENTRANCES THROUGH FLOOR SLAB AND WALLS.
 - SEE "VAULT GROUND BUS RISER DIAGRAM" FOR GROUNDING INFORMATION.

VAULT ELECTRICAL EQUIPMENT PLAN
 SCALE 1/2"=1'-0"
 1 0 2 4 FEET

KEY NOTES: #

- NOT USED.
- SERVICE CONDUCTORS IN 3 1/2" SCHED. 40 PVC CONDUIT FROM SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER. CONTRACTOR SHALL FURNISH & INSTALL SERVICE CONDUCTORS & CONDUIT SEE "PROPOSED VAULT AREA ELECTRICAL PLAN" FOR ROUTING INFORMATION.
- VAULT MAIN DISTRIBUTION PANEL A. SEE SCHEDULE.
- AC SURGE PROTECTOR/TVSS.
- LIGHTING CONTACTOR PANEL. SEE "LIGHTING CONTACTOR PANEL DETAIL".
- L-854 RADIO CONTROL UNIT.
- RADIO RELAY INTERFACE PANEL WITH PHOTOCELL BYPASS SWITCH FOR AIRFIELD LIGHTING SYSTEM. SEE "AIRFIELD LIGHTING CONTROL WIRING SCHEMATIC" FOR WIRING REQUIREMENTS. MOUNT PHOTOCELL ABOVE ROOF LEVEL. FIELD VERIFY LOCATION FOR PROPER CONTROL AND OPERATION. PROVIDE SCHED 40 PVC NIPPLE AT ENTRY TO VAULT FOR ISOLATION. BOND EXTERIOR METAL CONDUIT TO GND RING WITH PIPE CLAMP AND BONDING CONDUCTOR.
- ELECTRIC WALL HEATER EH-1, SUITABLE FOR SURFACE MOUNTING WITH INTEGRAL THERMOSTAT. Q-MARK MODEL CWH3404, OR APPROVED EQUAL. HEATER SHALL BE MANUFACTURED IN THE UNITED STATES TO COMPLY WITH THE AIRPORT IMPROVEMENT PROGRAM BUY AMERICAN REQUIREMENT, & THE "BUY AMERICAN ACT". LOCATED HEATER SUCH THAT IT IS NOT LESS THAN 8" FROM ADJACENT WALLS OR EQUIPMENT.
- ELECTRIC WALL HEATER EH-2, SUITABLE FOR SURFACE MOUNTING WITH INTEGRAL THERMOSTAT. Q-MARK MODEL CWH3404, OR APPROVED EQUAL. HEATER SHALL BE MANUFACTURED IN THE UNITED STATES TO COMPLY WITH THE AIRPORT IMPROVEMENT PROGRAM BUY AMERICAN REQUIREMENT, & "BUY AMERICAN ACT". BOTTOM OF HEATER SHALL BE 8" (MIN.) ABOVE THE UPPER ELECTRICAL WIREWAY. COORDINATE WITH CCR INSTALLATION & FAN INSTALLATION. LOCATE HEATER ON WALL SUCH THAT IT IS NOT DIRECTLY BEHIND CCR. LOCATE HEATER SUCH THAT IT IS NOT LESS THAN 8" FROM ADJACENT WALLS OR EQUIPMENT.
- EXHAUST FAN EF-1, 3100 CFM (MINIMUM) AT .25" STATIC PRESSURE WITH 1/3 HP (MINIMUM), 120 VAC MOTOR, COOK MODEL 20S10D, OR APPROVED EQUAL. INCLUDE WALL HOUSING WITH GUARD, HEAVY DUTY BACK DRAFT DAMPER, ALUMINUM WEATHER-HOOD PAINTED TO MATCH BUILDING EXTERIOR, STAINLESS STEEL INSECT SCREEN, AND FRACTIONAL HP ELECTRICAL DISCONNECT. INSTALL FAN AS HIGH AS POSSIBLE. PROVIDE 120 VAC THERMOSTAT, AT 48" AFF. SEE EXHAUST FAN CONTROL SCHEMATIC FOR WIRING REQUIREMENTS. FAN SHALL BE MANUFACTURED IN THE UNITED STATES TO COMPLY WITH THE AIRPORT IMPROVEMENT PROGRAM BUY AMERICAN REQUIREMENT, & THE "BUY AMERICAN ACT".
- INTAKE LOUVER L-1, 24" WIDE BY 48" HIGH INTAKE LOUVER WITH STAINLESS STEEL INSECT SCREEN, FLANGED FRAME, 120 VAC LOW LEAK MOTORIZED DAMPER WITH LIMIT SWITCH, KYNAR FINISH MATCHING BUILDING EXTERIOR, RUSKIN MODEL ELF375DX, OR APPROVED EQUAL. SEE EXHAUST FAN CONTROL SCHEMATIC FOR WIRING REQUIREMENTS. LOUVER / DAMPER SHALL BE MANUFACTURED IN THE UNITED STATES TO COMPLY WITH THE AIRPORT IMPROVEMENT PROGRAM BUY AMERICAN REQUIREMENT, & THE "BUY AMERICAN ACT".
- 6" BY 6" LOW VOLTAGE WIREWAY. LABEL "LOW VOLTAGE" EVERY 6 FEET. INSTALL ABOVE HIGH VOLTAGE WIREWAY.
- 6" BY 6" HIGH VOLTAGE WIREWAY. LABEL "HIGH VOLTAGE" EVERY 6 FEET. INSTALL BELOW LOW VOLTAGE WIREWAY.
- NEW 7.5 KW REGULATOR FOR RUNWAY 18-36 (CCR). SEE GENERAL NOTE 1.
- NEW 7.5 KW REGULATOR FOR TAXIWAY 9-27 (CCR). SEE GENERAL NOTE 1.
- NEW 10 KW REGULATOR FOR RUNWAY 9-27 (CCR). SEE GENERAL NOTE 1.
- RELOCATED CROUSE-HINDS ELECTRIC TYPE FAA L-828 PART #82860-D-07-4-66-03, 7.5 KW REGULATOR FOR RUNWAY 9-27 (CCR). SEE GENERAL NOTE 1.
- SERIES PLUG CUTOFF (TYPE S-1) WITH ENCLOSURE.
- TRANSFER PAIR SERIES PLUG CUTOFFS (TYPE S-1) WITH ENCLOSURE, FOR RUNWAY 9-27.
- DOUBLE THROW FUSIBLE SAFETY SWITCH FOR RUNWAY 9-27 CCR'S.
- 4-4" PVC COATED GRSC CONDUITS AND 4-4" PVC COATED GRSC ELBOWS AT VAULT FROM LOW VOLTAGE WIREWAY TO LOW VOLTAGE HANDHOLE, SEE "PROPOSED VAULT AREA ELECTRICAL PLAN" FOR ROUTING INFORMATION.
- 4-4" PVC COATED GRSC CONDUITS AND 4-4" PVC COATED GRSC ELBOWS AT VAULT FROM HIGH VOLTAGE WIREWAY TO HIGH VOLTAGE HANDHOLE, SEE "PROPOSED VAULT AREA ELECTRICAL PLAN" FOR ROUTING INFORMATION.
- VEGETATION BARRIER CONSISTING OF A MIN. 6" PEA GRAVEL SURFACE OVER FILTER OR LANDSCAPING FABRIC. PROPOSED SURFACE TREATMENT WILL COVER ENTIRE AREA BENEATH VAULT STRUCTURE AS WELL AS 18" AROUND THE PERIMETER OF THE BUILDING EDGE. THE STONE AND FABRIC AS WELL AS ANY EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS TASK WILL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PROPOSED ELECTRICAL VAULT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ENTRANCE PAD CONSTRUCTED OF 6" MIN. CONCRETE SLAB W/ 6X6-W5XW5 WELDED WIRE FABRIC ON A COMPACTED SUBGRADE. MINIMUM DIMENSIONS OF PAD WILL BE 7'x5'Dx6"H, SLOPED AT A MIN. OF 0.5"/FT AWAY FROM THE VAULT ENTRANCE. THE CONCRETE PAD WILL BE PLACED AT LEAST 3" INTO THE EXISTING GRADE. STEP INTO VAULT BUILDING WILL NOT EXCEED 7". PCC USED TO CONSTRUCT THE PAD WILL CONFORM TO ITEM 610. ALL MATERIALS, LABOR AND EQUIPMENT USED TO CONSTRUCT THE PAD INCLUDING ANY GRADING REQUIRED WILL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE PROPOSED ELECTRICAL VAULT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE NUMBER, SIZE, DEPTH, REINFORCEMENT, AND LOCATION OF THE PROPOSED CONCRETE PIERS WILL BE COORDINATED WITH THE MANUFACTURER OF THE PROPOSED ELECTRICAL VAULT BUILDING. THE TOP OF THE PROPOSED PIERS WILL BE AT LEAST 4" ABOVE THE EXISTING GRADE.
- BRANCH CIRCUIT CONDUCTORS IN 2" PVC COATED GRSC. TO REBURNISHED AIRPORT BEACON, SEE "PROPOSED VAULT AREA ELECTRICAL PLAN" FOR ROUTING INFORMATION.
- PANEL B. SEE SCHEDULE.
- AWOS STEP-UP TRANSFORMER.
- L-854 RADIO ANTENNA CABLE IN 1" GRSC TO EXISTING TERMINAL BUILDING, SEE "PROPOSED VAULT AREA ELECTRICAL PLAN" FOR ROUTING INFORMATION. MOUNT ANTENNA ABOVE ROOF PLAN ON FOR PROPER OPERATION.
- PLASI 27 BOOST TRANSFORMER.

REVISION	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

EDGAR COUNTY AIRPORT
PARIS, ILLINOIS

IL PROJ.: PRG-4018 A.I.P. PROJ.: 3-17-0077-B13

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LAYOUT	CAT	RSS	MAM
DRAWN			
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HANSON

ARMSTRONG

CONSTRUCT CROSSWIND
RUNWAY 18-36

PROPOSED AIRPORT
VAULT EQUIPMENT PLAN

43
43 of 137 sheets

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