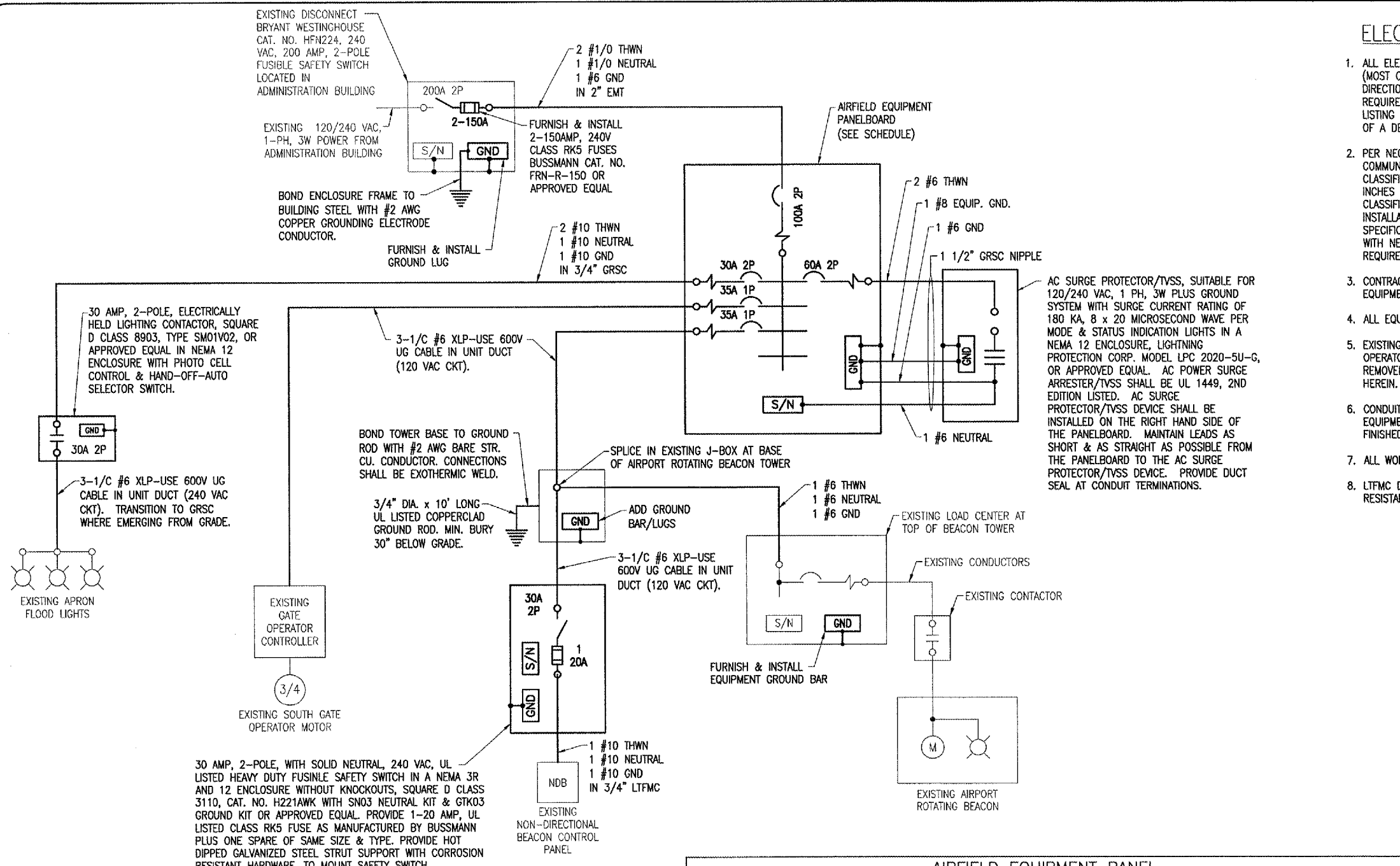


ELECTRICAL NOTES

1. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (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.
2. PER NEC 513 THE ENTIRE AREA OF THE HANGAR INCLUDING ANY ADJACENT AND COMMUNICATING AREAS NOT SUITABLE CUT OFF FROM THE HANGAR, SHALL BE CLASSIFIED AS A CLASS I, DIVISION 2 HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR. AREAS IN THE VICINITY OF AIRCRAFT ARE ALSO CLASSIFIED AS HAZARDOUS AS DEFINED BY NEC 513. ALL ELECTRICAL INSTALLATIONS IN CLASSIFIED HAZARDOUS LOCATIONS SHALL BE AVOIDED UNLESS SPECIFICALLY APPROVED FOR SUCH LOCATIONS AND INSTALLED IN CONFORMANCE WITH NEC 500, 501, AND 513 AS WELL AS ANY OTHER APPLICABLE CODES AND REQUIREMENTS.
3. CONTRACTOR SHALL COORDINATE NEW WORK AND ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER & THE AIRPORT MANAGER.
4. ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
5. EXISTING POWER/FEEDER CABLES TO VAULT, APRON FLOOD LIGHTS, SOUTH GATE OPERATOR, AIRPORT ROTATING BEACON, AND NON-DIRECTIONAL BEACON SHALL BE REMOVED OR ABANDONED IN PLACE AND REPLACED WITH NEW CABLE AS DETAILED HEREIN.
6. CONDUITS FROM AIRFIELD EQUIPMENT PANELBOARD TO RESPECTIVE AIRFIELD EQUIPMENT SHALL EXIT THE ADMINISTRATION BUILDING/HANGAR 24" MINIMUM ABOVE FINISHED FLOOR.
7. ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AR109200.
8. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, AND SUITABLE FOR GROUNDING



DEVICE	LABEL
200 AMP FUSIBLE DISCONNECT THAT FEEDS THE AIRFIELD EQUIPMENT PANELBOARD	DISCONNECT AIRFIELD EQUIPT. PANEL 120/240 VAC, 1 PH, 3W 150 AMP MAX FUSE
AIRFIELD EQUIPMENT PANELBOARD	AIRFIELD EQUIPT. PANEL 120/240 VAC, 1 PH, 3 W FED FROM 200 AMP DISCONNECT AT NE CORNER OF HANGAR
APRON FLOOD LIGHTING CONTROL PANEL	APRON FLOOD LIGHTING CONTROLLER 120/240 VAC, 1 PH, 3 W
SOUTH GATE OPERATOR	SOUTH GATE OPERATOR 120 VAC, 1 PH, 2 W FED FROM AIRFIELD EQUIPT. PANEL IN ADMIN/HANGAR BLDG
J-BOX AT AIRPORT ROTATING BEACON	120 VAC, 1 PH, 2 W FED FROM AIRFIELD EQUIPT. PANEL IN ADMIN/HANGAR BLDG
SAFETY SWITCH AT NON-DIRECTIONAL BEACON	NDB 120 VAC, 1 PH, 2 W FED FROM AIRFIELD EQUIPT. PANEL IN ADMIN/HANGAR BLDG THROUGH J-BOX AT BEACON

NOTE: LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND UNLESS NOTED OTHERWISE. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS. FURNISH ADDITIONAL LEGEND PLATES WHERE REQUIRED BY CODE, FOR ADDITIONAL EQUIPMENT, AS DETAILED HEREIN ON THE PLANS, AND AS NOTED IN THE SPECIAL PROVISION SPECIFICATIONS.

CKT #	DUTY	SIZE	SIZE	DUTY	CKT #
1	MAIN BREAKER	100A 2P	100A 2P	MAIN BREAKER	1
2			60A 2P	SURGE PROTECTOR/TVSS	2
3					3
4	APRON FLOOD LIGHTS	30A 2P		BLANK	4
5				BLANK	5
6				BLANK	6
7	SOUTH GATE OPERATOR	35A 1P		BLANK	7
8				BLANK	8
9	AIRPORT ROTATING BEACON & NDB	35A 1P		BLANK	9
10				BLANK	10
11				BLANK	11
12				BLANK	12

100 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 12 CIRCUIT PANELBOARD WITH 100 AMP, 2 POLE MAIN BREAKER IN A NEMA 1 ENCLOSURE. INCLUDE SEPARATE GROUND BAR KIT. ALL BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D CAT. NO. NQ0D12M100CU, OR APPROVED EQUAL.

- NOTES
1. PANELBOARD BUS SHALL BE COPPER.
 2. PANELBOARD SHALL BE INSTALLED ON THE SOUTH WALL OF THE ADMINISTRATION/HANGAR BUILDING LOCATED BETWEEN THE SOUTH EXIT DOORWAY & COLUMN. LOCATE PANEL SO THAT CONDUITS EXITING THE BUILDING WILL BE IN THE TURF AREA NEAR THE EXISTING VAULT. BOTTOM OF PANEL ENCLOSURE SHALL NOT EXTEND INTO THE AREA 24" ABOVE THE HANGAR FLOOR TO COMPLY WITH NEC 513.
 3. INCLUDE PHENOLIC ENGRAVED LEGEND PLATE LABELED "AIRFIELD EQUIPMENT PANEL, 120/240 VAC, 1PH, 3W".

ELECTRICAL ONE-LINE DIAGRAM FOR MISC. AIRFIELD EQUIPMENT

FURNISH & INSTALL A WEATHERPROOF WARNING LABEL FOR EACH METER SOCKET, PANELBOARD, LOAD CENTER, DISCONNECT & CONTROL PANEL TO WARN PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER THE REQUIREMENTS OF NEC 110.16 "FLASH PROTECTION".

BY	REVISION	DATE

TAYLORVILLE MUNICIPAL AIRPORT
TAYLORVILLE, ILLINOIS
A.I.P. PROJ.: 3-17-0100-B7
IL PROJ.: TAX-3166

FILE PROJECT NO. B22-03RWYGD_0800	NO. SCALE	DATE
E-609.DWG		04/22/05
LAYOUT	KNL	03/01/05
DRAWN	D.A.N.	03/01/05
REVIEWED	CAH	03/01/05



CONSTRUCT RUNWAY 9-27
MISC. AIRFIELD EQUIPMENT ELECTRICAL ONE-LINE