

PROP. AIRFIELD ELECT. VAULT PLAN VIEW
 1/4" = 1'-0"

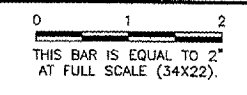
NOTES:
 ALL PROPOSED WORK OR ITEMS BEING MODIFIED ARE SHOWN IN BOLD. ALL OTHER ITEMS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY.

PROPOSED VAULT NOMENCLATURE

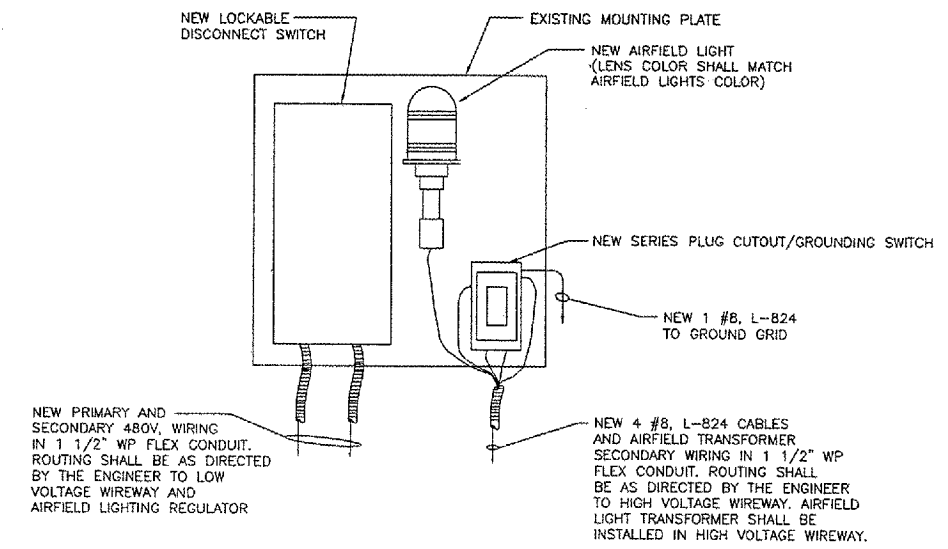
- ① EXISTING 30KW (5-STEP) REGULATOR FOR RUNWAY 16/34.
- ② EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 6/24.
- ③ EXISTING 20KW (5-STEP) REGULATOR FOR RUNWAY 12/30.
- ④ EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY G,D AND 34 HOLD APRON.
- ⑤ EXISTING 10KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RDR.
- ⑥ EXISTING 15KW (3-STEP) REGULATOR FOR RUNWAY 16/34 RGL.
- ⑦ EXISTING 10 KW (3-STEP) REGULATOR FOR RUNWAY 16 APPROACH LIGHTING.
- ⑧ EXISTING 10 KW (3-STEP) REGULATOR FOR HFC APRON LIGHTING.
- ⑨ EXISTING 10KW (3-STEP) REGULATOR FOR TAXIWAY A,B,E AND F.
- ⑩ EXISTING 20KW (3-STEP) REGULATOR FOR TAXIWAY K.
- ⑪ EXISTING 30 KW (5-STEP) REGULATOR FOR SPARE (STAND-BY) USE.
- ⑫ EXISTING 30KW (3-STEP) REGULATOR FOR TAXIWAY D,L,M,N AND Y.
- ⑬ **NEW 10KW (3-STEP) REGULATOR FOR TAXIWAY C. PROVIDE NEW 30A, 2-POLE DISCONNECT SWITCH.**
- ⑭ FUTURE AIRFIELD LIGHTING REGULATOR.
- ⑮ EXISTING MAIN UTILITY SERVICE CIRCUIT BREAKER DISCONNECT. 800A, 480V, 3-POLE.
- ⑯ EXISTING AUTOMATIC TRANSFER SWITCH. 800A, 480V, 3-POLE.
- ⑰ EXISTING HIGH VOLTAGE POWER DISTRIBUTION PANEL. 480V, 3-PHASE WITH 800AMP MAIN CIRCUIT BREAKER. **INSTALL 1-30A, 2-POLE CIRCUIT BREAKER IN EXISTING PANELBOARD.**
- ⑱ EXISTING 150KVA, 480V-280Y/120V, 3φ, 4-WIRE TRANSFORMER.
- ⑲ EXISTING LOW VOLTAGE LIGHTING PANEL. 208Y/120V, 3-PHASE WITH 400AMP MAIN CIRCUIT BREAKER.
- ⑳ EXISTING PLC CONTROL CABINET TO BE MODIFIED. SEE VAULT CONTROL DETAILS SHEET.
- ㉑ EXISTING 800AMP CT CABINET.
- ㉒ EXISTING 12"x12"x12' LONG HIGH VOLTAGE WIREWAY.
- ㉓ EXISTING 12"x12"x12' LONG LOW VOLTAGE WIREWAY.
- ㉔ EXISTING 12"x12"x9' LONG HIGH VOLTAGE WIREWAY. HOMERUN CABLES FOR PROPOSED TAXIWAY C CIRCUIT SHALL BE TIED INTO SECONDARY CABLES FROM REGULATOR IN WIREWAY USING L-823 CONNECTORS. CONNECTORS SHALL BE TAPED AND LABELED.
- ㉕ EXISTING 12"x12"x9' LONG LOW VOLTAGE WIREWAY.
- ㉖ **NEW REGULATOR EQUIPMENT MOUNTING PLATE. CONTRACTOR SHALL INSTALL SERIES PLUG CUT-OUT, AIRFIELD LIGHT AND PRIMARY 30A, 2-POLE POWER DISCONNECT FOR TAXIWAY C REGULATOR ON MOUNTING PLATE. SEE MOUNTING PLATE DETAIL THIS SHEET. MATCH WITH EXISTING CONDITIONS.**
- ㉗ **NEW 2-1/C #8 5KV, L-824 AIRFIELD CABLES FOR TAXIWAY C CIRCUIT IN EXISTING 4" CONDUIT TO EXISTING MANHOLE EMH 2.**
- ㉘ **NEW 2 #8 THWN, 1 #10 GND. IN EXISTING 4" GRS CONDUIT FOR TAXIWAY C REGULATOR.**
- ㉙ **NEW 2 #8 THWN, 1 #10 GND. (POWER) AND 4 #12 THWN (CONTROLS) IN EXISTING 1-1/2" GRS CONDUIT.**
- ㉚ **NEW 4 #12 THWN CONTROL WIRES IN EXISTING 4" GRS CONDUIT TO LOW VOLTAGE WIREWAY.**
- ㉛ **NEW 2 #8 THWN, 1 #10 GND. (POWER) AND 4 #12 THWN (CONTROL) IN 1-1/2" WP/FLEX CONDUIT. (PROVIDE 3' MIN. SLACK)**
- ㉜ **NEW 2 #8, 5KV, L-824 AIRFIELD CABLES IN 1" WP/FLEX CONDUIT. (PROVIDE 3' MIN. SLACK)**
- ㉝ **NEW 2 #8, 5KV, L-824, TYPE C CABLES IN EXISTING 4" CONDUIT TO HIGH VOLTAGE WIREWAY.**

REVISIONS

NUMBER	BY	DATE



**PALWAUKEE MUNICIPAL AIRPORT
 WHEELING/PROSPECT HEIGHTS, ILLINOIS**
**CONSTRUCT TAXIWAY CHARLIE AND EAST QUADRANT APRON
 AIRFIELD ELECTRICAL VAULT MODIFICATIONS**



EQUIPMENT MOUNTING PLATE DETAIL
 N.T.S.

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Palwaukee
 Municipal Airport

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DRAWN BY:	JRO
CHECKED BY:	
APPROVED BY:	
DATE:	06/24/05
JOB No:	04290-03
ILLINOIS PROJECT: PWK-3481 A.I.P. PROJECT: 3-17-0018-BXX	
SHEET 28 OF 38 SHEETS	