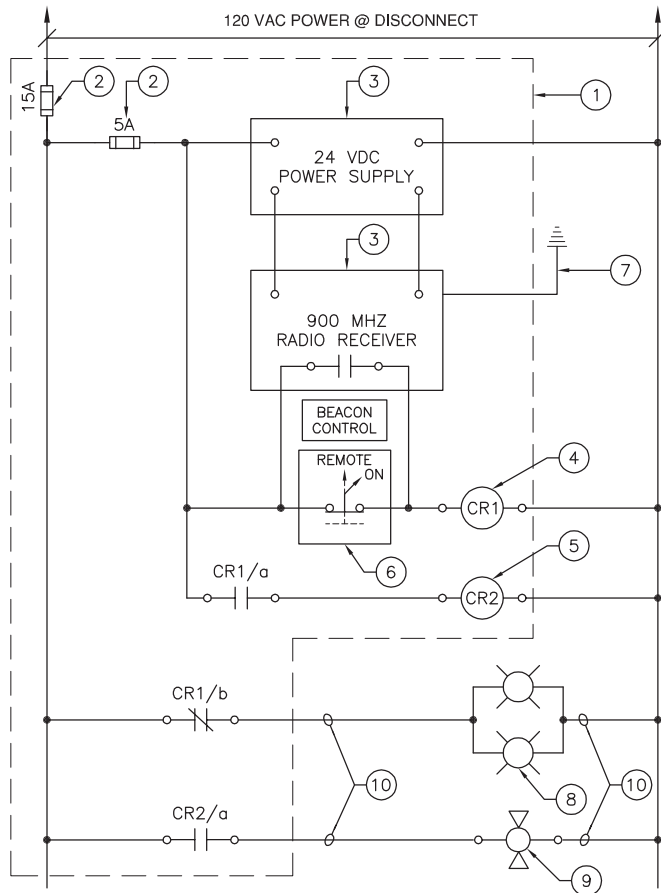


**UN051**

REVISIONS		
NUMBER	BY	DATE

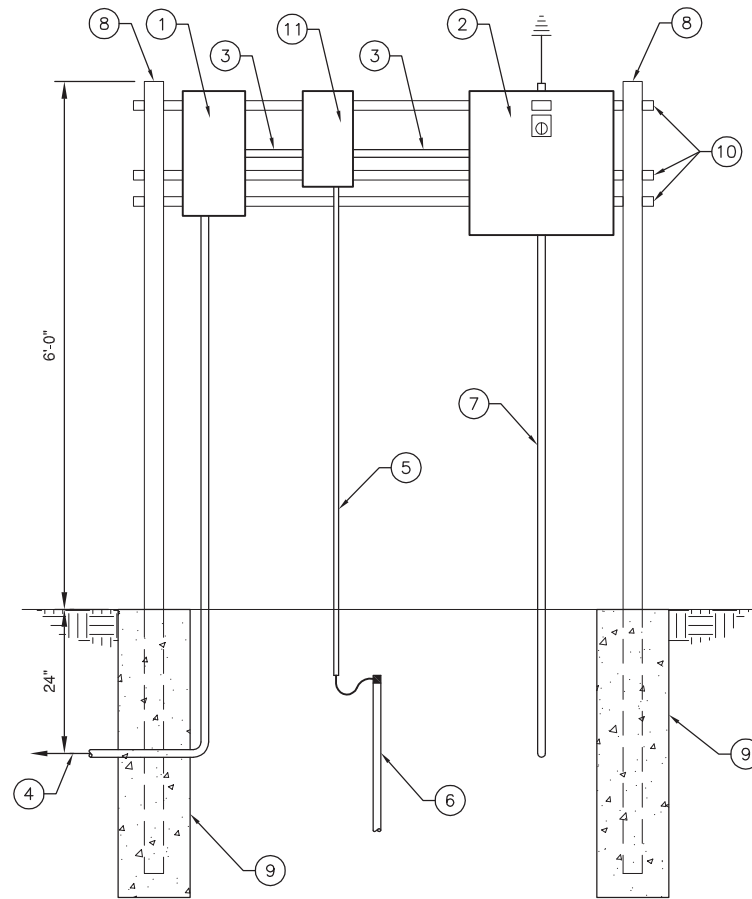
0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



**BEACON RADIO RECEIVER SCHEMATIC**

**BEACON RADIO RECEIVER SCHEMATIC KEYED NOTES**

- 1 CONTROL PANEL NEMA 4 HINGED COVER ENCLOSURE, SIZED AS REQUIRED TO HOUSE EQUIPMENT. MOUNT NEXT TO DISCONNECT.
- 2 IN-LINE FUSES AND FUSEHOLDERS. MOUNT INSIDE ENCLOSURE.
- 3 MOUNT INSIDE ENCLOSURE.
- 4 CONTROL RELAY, 10A, 120V, WITH THREE FORM C CONTACTS. MOUNT INSIDE ENCLOSURE.
- 5 HEAVY DUTY CONTROL RELAY, MINIMUM 20A, 120V, WITH ONE FORM C CONTACT. MOUNT INSIDE ENCLOSURE.
- 6 TWO-POSITION SELECTOR SWITCH, 10A, 120V, WITH LEGEND PLATE AND ENGRAVED NAMEPLATE SHOWN. MOUNT IN DOOR OF ENCLOSURE.
- 7 ANTENNA, MOUNTED ON TOP OF ENCLOSURE. NOTE: ANTENNA MUST HAVE LINE-OF-SIGHT WITH RADIO TRANSMITTER, LOCATED AT AIR TRAFFIC CONTROL TOWER (ATCT).
- 8 OBSTRUCTION LIGHTS, MOUNTED ON CATWALK AT BEACON.
- 9 NEW BEACON.
- 10 12 THWN.

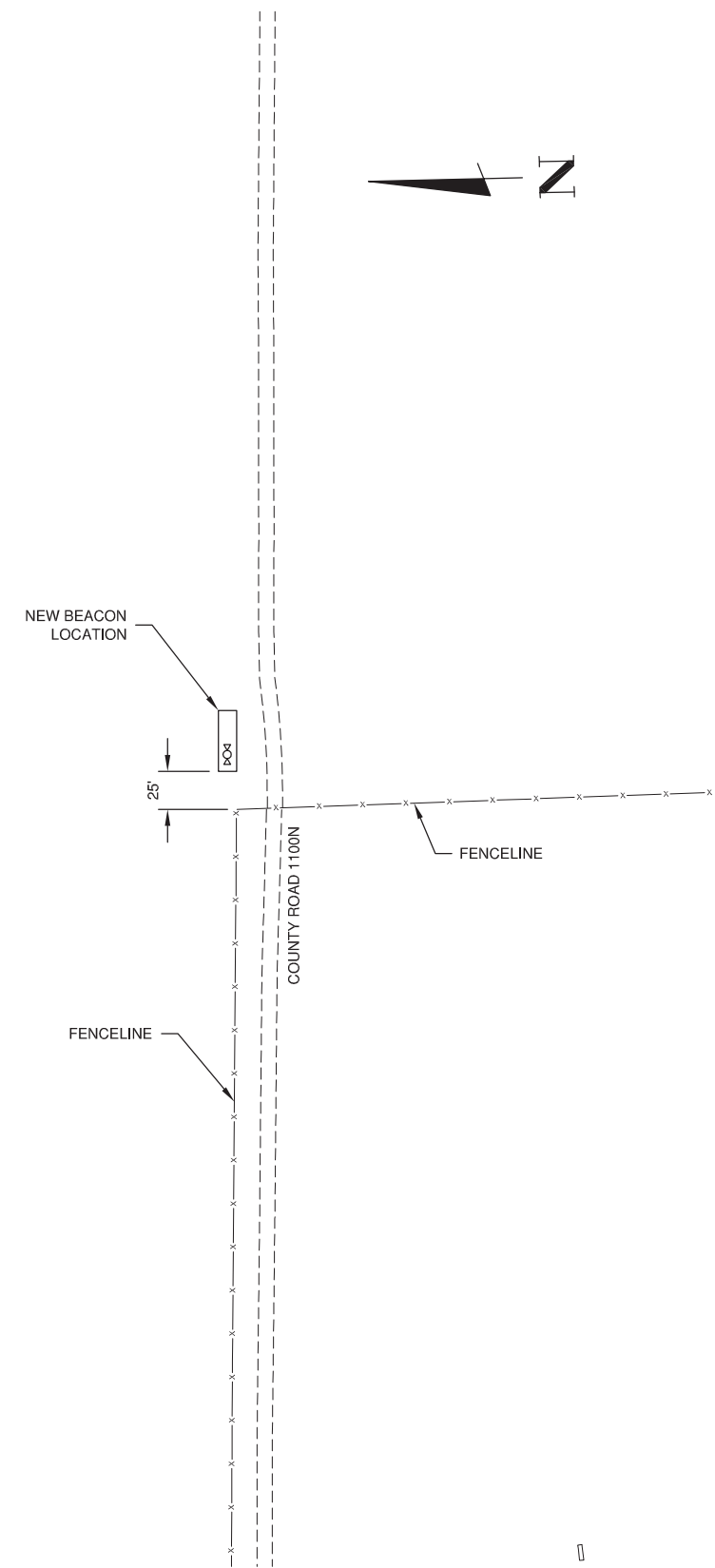


**BEACON POWER DISTRIBUTION ELEVATION**

N.T.S.

**BEACON POWER DISTRIBUTION KEYED NOTES**

- 1 DISCONNECT, HEAVY-DUTY, 30A, 600V, 2-WIRE, FUSIBLE, IN NEMA 3R ENCLOSURE, WITH TWO 15A FUSES.
- 2 NEMA 4 HINGED COVER ENCLOSURE, SIZED AS REQUIRED TO HOUSE EQUIPMENT, WITH DOOR MOUNTED SELECTOR SWITCH. MOUNT RADIO RECEIVER ANTENNA ON TOP OF ENCLOSURE, SEE BEACON RECEIVER SCHEMATIC FOR ADDITIONAL INFORMATION.
- 3 TWO #12 THWN, ONE #12 GROUND IN 3/4" GRS CONDUIT.
- 4 TWO #8, 600V USE (480V), ONE #8 GROUND IN 1" GRS CONDUIT TO 24" BELOW GRADE AND THEN IN UNIT DUCT TO EXISTING UTILITY TRANSFORMER.
- 5 #6 GROUNDING ELECTRODE CONDUCTOR (GEC) IN 1/2" SCHEDULE 40 PVC CONDUIT TO MINIMUM 1'-0" BELOW GRADE.
- 6 3/4" DIAMETER X 10 FOOT LONG COPPERCLAD GROUND ROD. CONNECTION TO GEC SHALL BE VIA EXOTHERMIC WELD, CADWELD OR EQUIVALENT.
- 7 TWO #12 THWN (120V BEACON POWER), TWO #12 THWN (120V TO OBSTRUCTION LIGHTS), ONE #12 GROUND IN 3/4" GRS CONDUIT TO NEW BEACON.
- 8 3" GALVANIZED STEEL SUPPORT POST, PAINTED WITH MINIMUM TWO COATS YELLOW EPOXY PAINT.
- 9 12" DIAMETER BY 48" DEEP CONCRETE FOOTING.
- 10 GALVANIZED STEEL STRUT-TYPE FRAMING, UNISTRUT P-1000, OR EQUIVALENT, AS NEEDED.
- 11 3KVA, 240 x 480 - 120/240V STEP-DOWN TRANSFORMER, SQUARE D 351F, OR EQUIVALENT. BOND THE XO NEUTRAL AND GROUND LUGS.



**NEW BEACON SITE PLAN**

N.T.S.

**WILLARD AIRPORT  
 UNIVERSITY OF ILLINOIS**

**NEW AIRFIELD LIGHTING VAULT  
 BEACON DETAILS 3**

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DESIGN BY:	WDP
DRAWN BY:	CMT
CHECKED BY:	CBG
APPROVED BY:	CET
DATE:	APRIL 20, 2012
JOB No:	11059-03

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