

UNITED STATES DEPARTMENT OF THE INTERIOR  
 FISH AND WILDLIFE SERVICE  
 ECOLOGICAL SERVICES  
 1311 FEDERAL BUILDING  
 125 SOUTH STATE STREET  
 SALT LAKE CITY, UTAH 84138-1197

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July 6, 1984

JUL 10 1984

DIVISION OF OIL  
 GAS & MINING

JIM

JUL 13 1984

MEMORANDUM

TO: Director  
 Division of Oil, Gas and Mining  
 Salt Lake City, Utah  
 ATTN: Mary Boucek

FROM: Acting Field Supervisor  
 Ecological Services

SUBJECT: Powerpole Configuration at Beaver Creek #7 Mine

Jim Munson, Fish and Wildlife Service (FWS) Biologist for the Salt Lake Field Office, inspected the powerlines at the Beaver Creek #7 mine on June 20, 1984. The pole configurations were found to be inadequate for raptor protection from electrocution. The following modifications are proposed for the powerlines:

1. The majority of the poles can be modified in one of two ways:
  - a. Wooden or fiberglass perch guards can be installed on each side of the crossarm to prevent birds from landing on the crossarms (Figure 16).
  - b. Elevated perches can be constructed on each side of the crossarm (Figure 15).
2. The corner powerpole configurations will require more elaborate modification to insure protection for raptors.
  - a. Perch guards should be placed on the bottom and top crossarms (Figure 16).
  - b. Insulated or covered jumpers should be installed to the fuse cutouts, lightning arrestors, and transformers (Figure 12).

- c. All transformer pods should have bird guards installed (Figure 5).
- d. The ground wire should have four (4) inch gaps above and below the crossarms (Figure 9).

The powerline in question is an immediate threat to raptors and should be modified to these specifications immediately.

Note: All figures shown are taken from Raptor Research Report No. 4, "Suggested Practices for Raptor Protection on Powerlines," Raptor Research Foundation, 1981.

*James J. Coyne*

**Enclosures**

cc: DWR, Price  
BLM, Price (ATTN: Dave Mills)  
OSM, Denver

FIGURE 12  
INSTALLATION OF TRANSFORMER EQUIPMENT  
TO PROVIDE FOR RAPTOR PERCHING

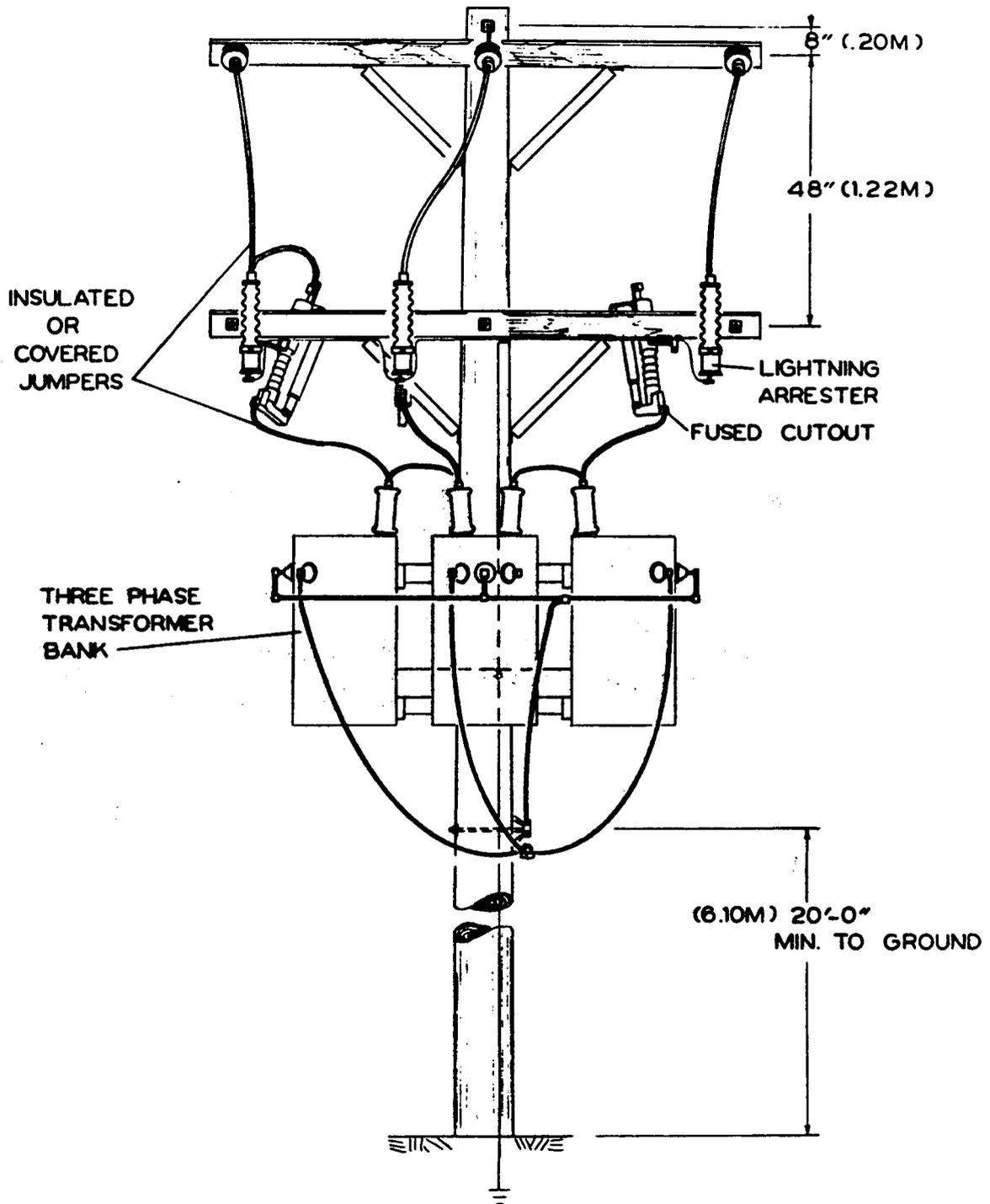


FIGURE 9  
GROUND WIRE GAPPING

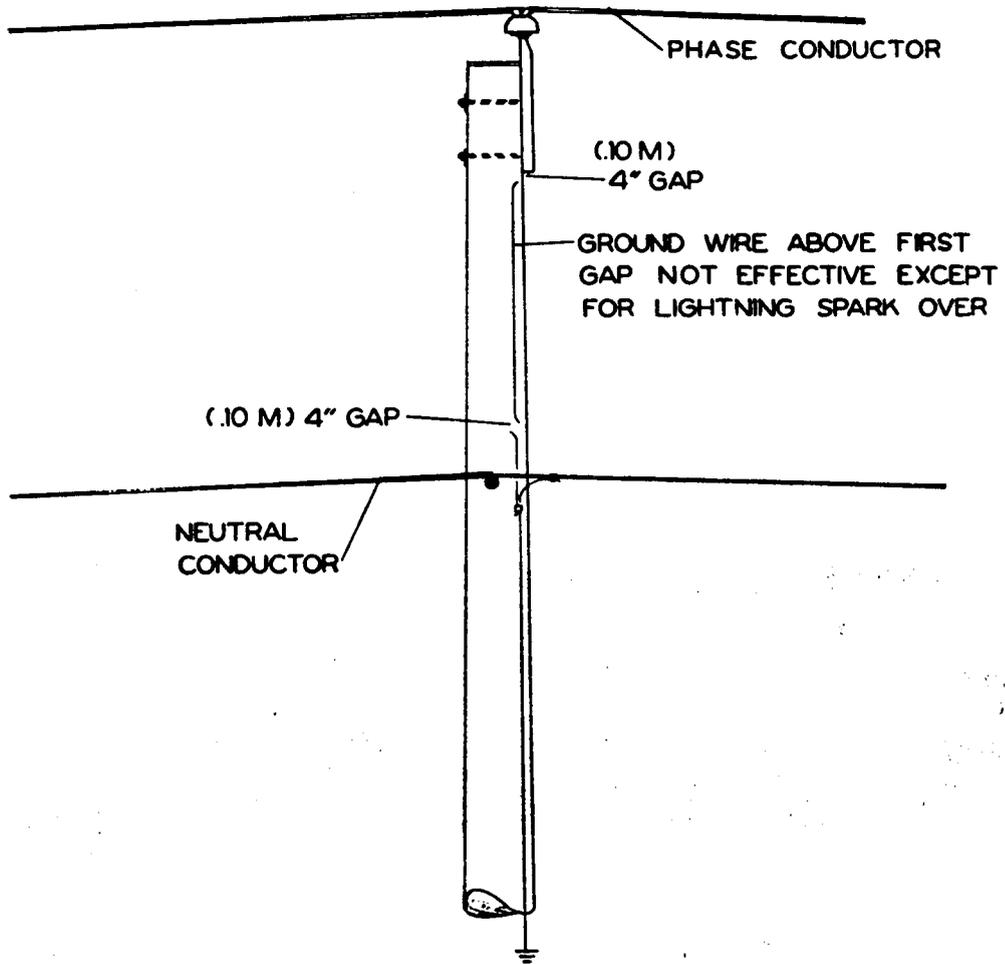


FIGURE 5  
COMMON TRANSFORMER CONFIGURATIONS

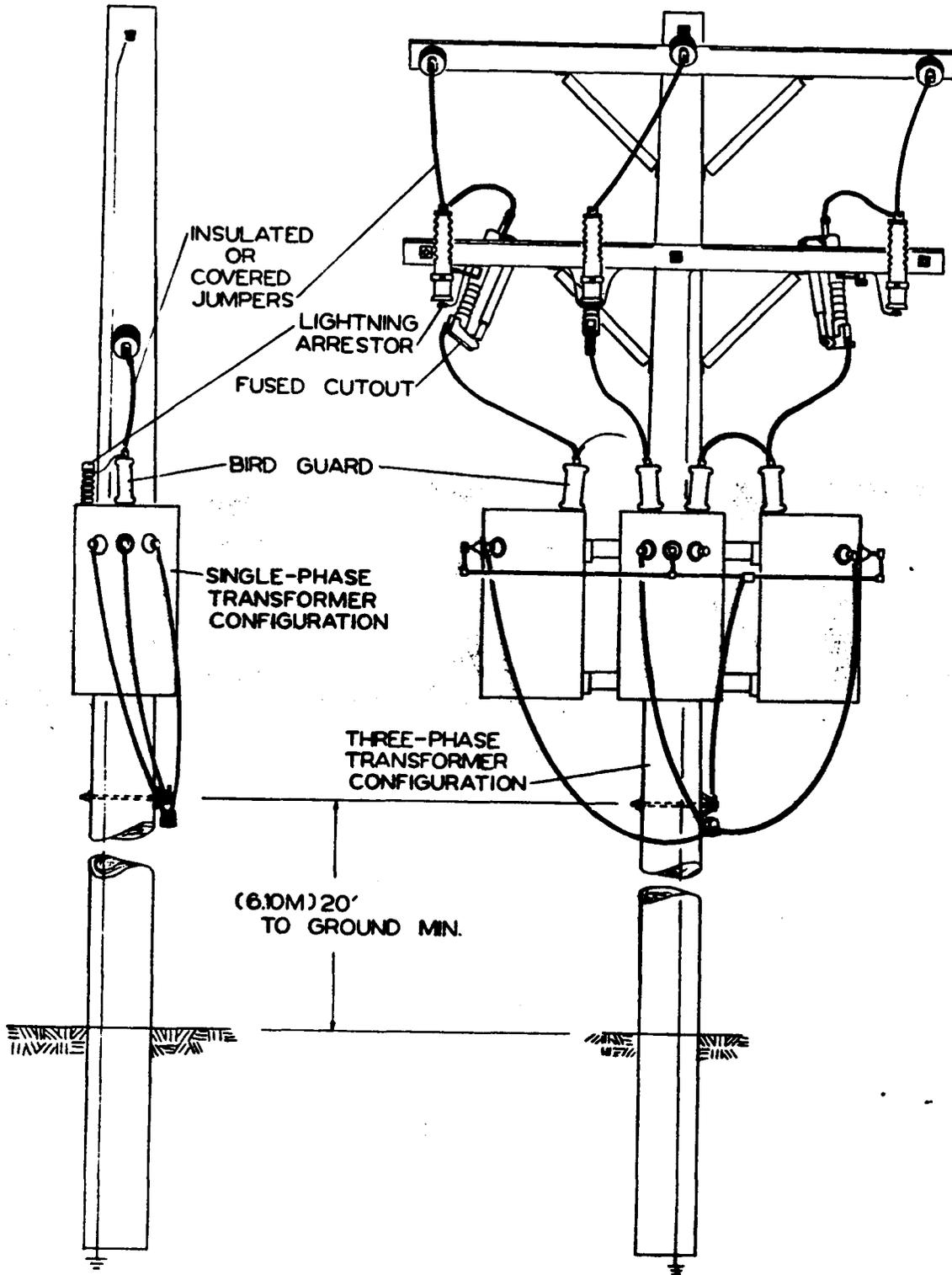


FIGURE 15  
**ELEVATED PERCH CONSTRUCTION**

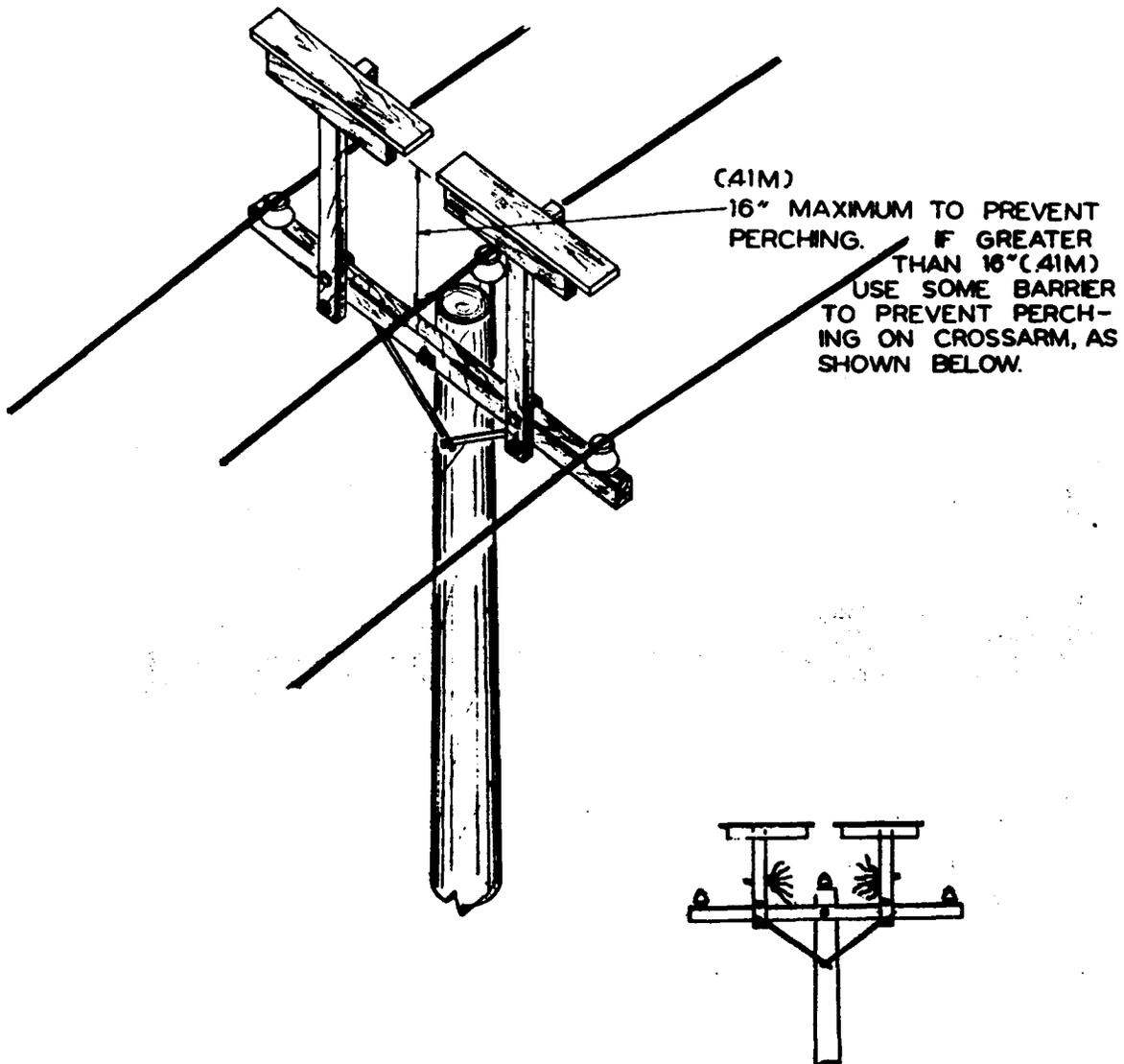


FIGURE 18  
PERCH GUARDS

