## TROUBLE ON BACKBONE

IF YOU GET A MAIN ALM. PROCEED AS FOLLOWS:

A. TRY TO RESTORE ALM.
B. IF ALM. RESTORES OUR OFFICE SHOULD BE CLEAR AND TROUBLE ELSEWHERE
C. WAIT AND SEE WHO CALLS IN
D. HAVE EACH OFFICE TRY TO RESTORE THEIR ALM.
E. OFFICE THAT CAN CLEAR THEIR ALM. SHOULD BE ALL RIGHT
F. TROUBLE SHOULD BE WHERE ADJACENT OFFICES CAN'T CLEAR THEIR ALM.
G. HAVE OFFICES TERMINATE CIRCUIT TOWARD TROUBLE
H. PULL TERMINATION TOWARD ATWATER
I. CALL ATWATER AND MAKE SURE HE IS NOT TERMINATED TOWARD US
J. THIS SHOULD RESTORE CIRCUIT TO WORKING ORDER
K. HAVE OFFICES SHOOT TROUBLE

## TROUBLE ON LOCAL LOOP

A. CALL OFFICE RESPONSIBLE FOR THAT LOCAL LOOP AND HAVE THEM MAKE THEIR TEST ON IT

## REPEATER TROUBLE HERE

A. THERE IS ONE BALANCE LOOP, ONE 2 WAY OPEN-CLOSE AND TWO 1 WAY REPEATERS SPARES AVAILABLE. IF ONE OF THESE FAIL JUST PATCH IT OUT IN REGULAR WAY.

CARW-400 - Alarms
- What They Mean.

Relay (A) thus serves the dual purpose of registering an alarm when a trouble occurs, and of sectionalizing the system and making the individual parts operative until the trouble is cleared. If the line goes open, the relays are released at both ends; but if the line is grounded, only the relay at the end supplying ground will be released, since current will continue to flow at the other end. If a loop goes open, on the other hand, the local (A) relays are not affected because they are under the control of the (R) relays, but the (S) relays will send an open signal over the line in each direction and the (R) relays and (A) relays in the distant offices will release and bring in the alarms, etc. And, as in the line case, a ground on the loop will cause a signal in one direction only.