

AERIAL SYSTEM.

1. GENERAL. The angle between the aerials or aerial feeders of different installations should be as large as possible. Every effort should be made to prevent aerials or feeders of different sets being parallel.

2. STORES FOR AERIAL. Stores for aerials are grouped into "aerial outfits" according to the class of ship for which they are required. The outfits applicable to Type 49 set are as follows :-

<u>Office.</u>	<u>Ship.</u>	<u>Aerial Outfit.</u>	<u>Trunk.</u>
Main.	Flotilla Leaders and destroyers.	Groups "E" and "N"	18-inch. 8-inch
Main.	Sloops.	Group "E".	18-inch.
Second.	New construction, Capital Ships and large Cruisers.	Group "N".	18-inch.

3. AERIALS. Aerial outfit Group "E" consists of four wires (7/19 L.S.G.) supported on aerial yards on the fore and main masts. The feeder also consists of four wires, continuous with the aerial and is stayed well clear of all V/S halyards and other obstructions. Fig. 17 shows the typical rig for sloops.

Aerial outfit, Group "N", consists of a single wire slung from the mast as shown in Fig. 18, in the case of capital ships and cruisers and between the fore and main masts in the case of flotilla leaders and destroyers. The feeder is continuous with the aerial wire and the capacity of the aerial in the neighbourhood of 0.4 jar.

4. AERIAL INSULATORS. The main strain insulators used with Type 49 are Pattern 1043 Glass, 10 inches long, 13/16-inch diameter. Their proof test load is 896 lbs. In order that these figures should not be exceeded, the stress in the aerial halyards when hauling out the aerials with no wind blowing should not be greater than 40 lbs.

5. DECK AND BULKHEAD INSULATORS. Deck and bulkhead insulators are also arranged in various groups according to the type of installation and size of trunk for which they are required. The sizes of aerial trunks installed with Type 49 are as shown in paragraph 2 and should have deck insulators (and bulkhead insulators if required) as follows :-

18-inch Trunk.

- Group "B" - deck insulator.
- " "B" - bulkhead insulator at ordinary bulkheads.
- " "C" - bulkhead insulator if required in the side
of a silent compartment.

TYPE 49.
TYPICAL RIG FOR SLOOP

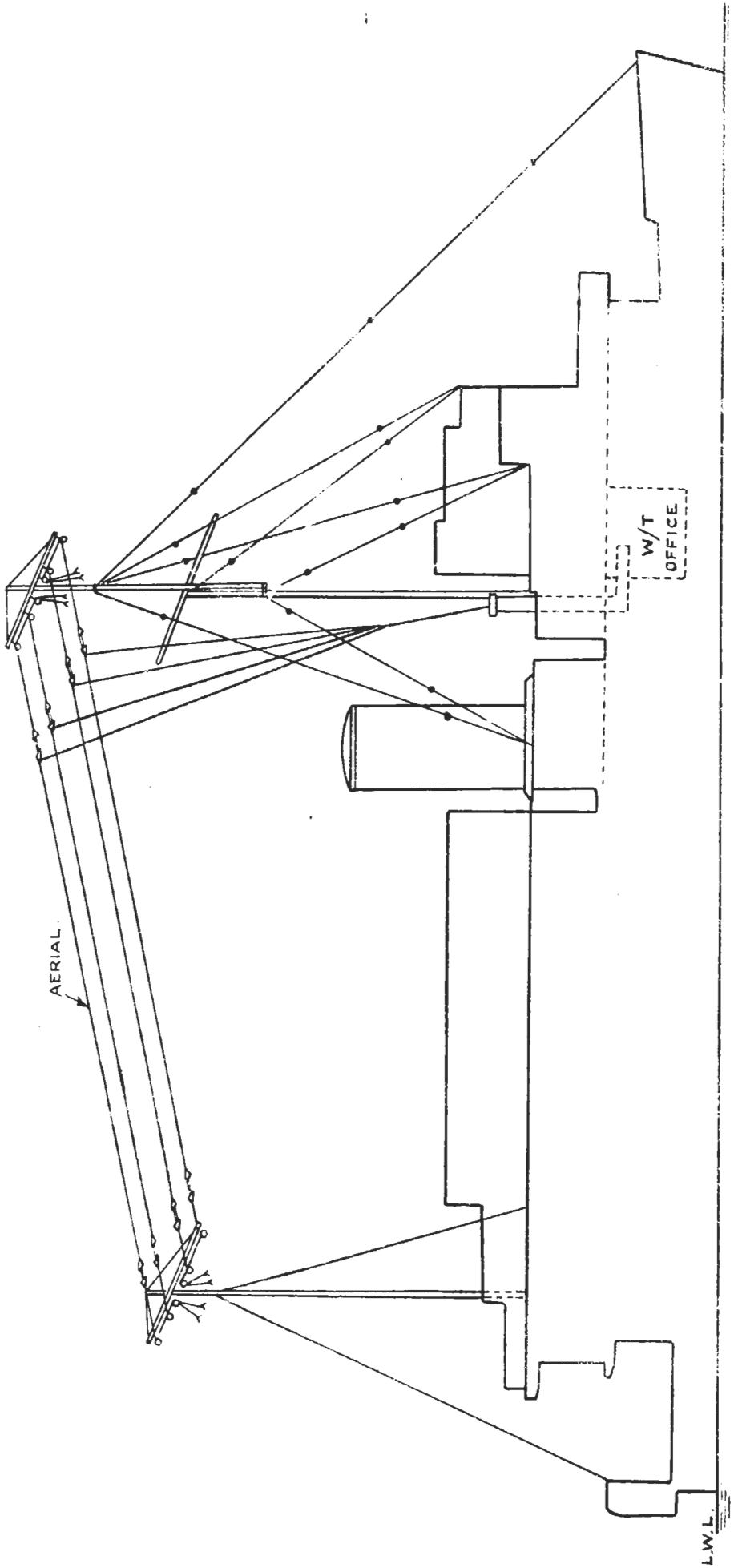


FIG 17.

TYPE 49

TYPICAL RIG FOR CAPITAL SHIPS AND CRUISERS FOREMAST (PART PROFILE).

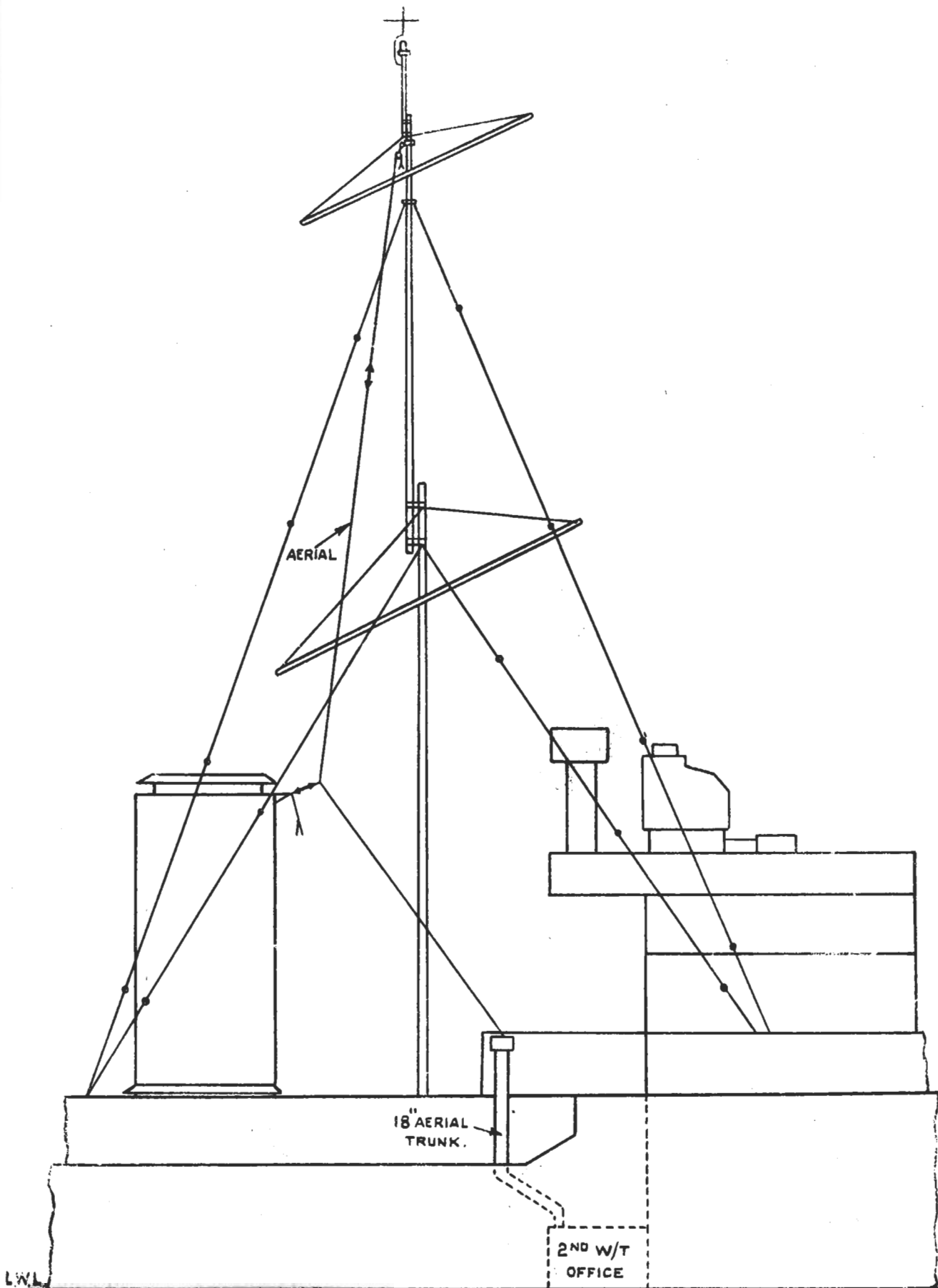


Fig. 18

8-INCH TRUNK.

Group	"K"	=	deck insulator.
"	"D" ³⁸	=	bulkhead insulator.
"	"C" ³⁹	=	deck insulator at the top of the trunk.