



**TYPICAL ARRANGEMENT**  
TRANSMISSION LINE AND TERMINAL BOXES

NOTES

- IMPORTANT - THE LENGTH OF TRANSMISSION LINE BETWEEN ANY ENTRANCE ASSEMBLY AND THE MOST DISTANT RECEIVER TERMINAL BOX SHALL NOT EXCEED FORTY (40) FEET IN CABLE LENGTH.
- TYPE RG-12/U COAXIAL CABLE SHALL BE IN ACCORDANCE WITH BUREAU OF SHIPS SPECIFICATIONS JAN-C-17.
- ALL TERMINAL BOXES COMPRISING THE ANTENNA TRANSFER ASSEMBLY SHALL BE MOUNTED WITHIN THE LIMITS OF A 36 INCH DIAMETER CIRCLE IN ORDER TO PERMIT THE USE OF A STANDARD 36 INCH PATHCORD. THE ASSEMBLY SHALL BE MOUNTED ON A VERTICAL BULKHEAD AND IN A POSITION TO FACILITATE CONVENIENT OPERATION BY PERSONNEL.
- TERMINAL BOXES FOR RECEIVER CONNECTIONS SHALL BE LOCATED WITHIN A 36 INCH RADIUS OF REAR EDGE OF THE RECEIVER SHELF OF STANDARD RADIO OPERATING TABLES TO PERMIT USE OF BARD 38 INCH PATCHCORDS FOR CONNECTING RECEIVERS.
- THE TYPE 40083 JACKBOX SHALL BE MOUNTED WITHIN 36 INCHES OF THE FREQUENCY METER INPUT CONNECTION. JACKBOX SHALL BE MOUNTED ON FREQUENCY METER SUPPORTING STRUCTURE OR ON AN ADJACENT BULKHEAD.
- STUFFING TUBES FOR TYPE RG-12/U CABLE SHALL BE SIZE "8" IN ACCORDANCE WITH BUREAU OF SHIPS DRAWING 9-S-5168-L. TYPE OF TUBE SHALL BE SELECTED TO SUIT STRUCTURE INVOLVED. STUFFING TUBE PACKING SHALL BE IN ACCORDANCE WITH NAVAL RESEARCH LABORATORY DRAWING RA 92AA 814.
- TYPE 9-S-4441-L-4 CABLE STRAPS SHALL BE USED ON WATERTIGHT STRUCTURES AND DECKS. TYPE 9-S-4442-L-4 SHALL BE USED ON NON-WATERTIGHT STRUCTURES. CABLE STRAPS SHALL HAVE A MAXIMUM SPACING OF 18 INCHES AND SHALL BE INSTALLED IN ACCORDANCE WITH BUREAU OF SHIPS DRAWING 9-S-3960-1.
- STUFFING TUBES AND CABLE STRAPS FOR TYPE RG-12/U CABLE MUST BE INSTALLED IN A MANNER WHICH WILL CAUSE ABSOLUTELY NO DEFORMATION OF THE DIELECTRIC. THE SLIGHTEST DEFORMATION WILL CHANGE THE ELECTRICAL CHARACTERISTICS OF THE CABLE.
- BENDS IN TYPE RG-12/U CABLE SHALL HAVE A MINIMUM RADIUS 10 TIMES THE DIAMETER OF THE CABLE.
- ALL CABLE RUNS COMPRISING THIS SYSTEM SHALL BE DESIGNATED "10-8A" AND MARKED "WITAL" FREQU IN ACCORDANCE WITH SUBSECTION 302-2 OF THE GENERAL SPECIFICATIONS FOR MACHINERY.

ALTERATION TABLE

NO.	REMARKS	DATE	BY
B	REVISED AND REDRAWN		NFN

RE 61F 285 ENTRANCE INSULATOR-61471  
 RE 2N1 119 RECEIVER PROTECTIVE UNIT  
 RE 13A 340 SPECIFICATIONS FOR RESISTORS  
 RA 49F 218 CONCENTRIC JACK  
 RA 62F 300 MISCELLANEOUS FITTINGS

RA28A 234 STUFFING TUBE PACKING  
 9-S-5333 TERMINAL BOX  
 9-S-4441 SINGLE CABLE STRAPS  
 9-S-4442 SINGLE CABLE STRAPS  
 9-S-3865 STUFFING TUBES  
 9-S-3960 METHODS OF SUPPORTING CABLES  
 JAN-C-17 GENERAL SPECS. FOR R.F. CABLES

REFERENCE DRAWINGS

DELINEATOR  
 TRACER  
 CHECKER

IN CHARGE OF SHOP DRAWINGS  
 N. F. NAZARE

APPROVAL

RADIO ENGINEERS ENGINEER-IN-CHARGE  
*J. F. Day*  
*R. J. ...*  
*S. W. ...*  
 LT. COMMANDER, U. S. N. R.

RADIO DIVISION - BUREAU OF SHIPS  
 NAVY DEPARTMENT - WASHINGTON, D. C.

RECEIVING ANTENNA  
 TRANSMISSION LINE SYSTEM

ARRANGEMENT AND DETAILS

TYPE PLAN

SCALE: N.T.S.  
 SHEET BY  
 CHECKED BY

DATE: 6 MARCH 1944

RE 62F 151C