MAIN DISTRIBUTING FRAME FOR LARGE CENTRAL OFFICE BUILDINGS

1. GENERAL

1.01 This section describes a type of main distributing frame designed to meet the requirements in the larger multi-unit office buildings where the area served has little or no party line development.

1.02 This type of main distributing frame employs a double-sided protector frame and a separate and parallel distributing frame. The protector capacity per vertical is doubled and the horizontal terminal strip capacity is also increased over that possible with the type of main distributing frame having protectors mounted on one side. This arrangement permits a greater number of central office units to be served by a single line of frame.

1.03 The protectors are mounted on the protector frame and are cabled to terminal strips on the vertical side of the main distributing frame, from which point the pairs are cross-connected in the usual manner. Each distributing frame vertical accommodates the cabling from one protector frame vertical.

2. DESCRIPTION OF FRAMES

Protector Frame

2.01 Each vertical of the protector frame is made up of two uprights spaced the proper distance apart. The protector mountings are bolted directly to these uprights each of which has a capacity of 404 3/8-inch protectors. This assembly is bolted to the top and floor angles on 8 inch centers.

Main Distributing Frame

2.02 The vertical side of the main distributing frame is arranged for mounting intermediate distributing frame type terminal strips, except that these are 16 inches long. The horizontal side mounts the usual type of main distributing frame terminal strips.

2.03 The verticals on the main distributing frame are spaced on 8-inch centers, each vertical being arranged for eight terminal strips, corresponding to the 808 pairs on one protector frame vertical. A 16-inch space is left in the middle of the vertical which brings it at the level of the mezzanine platform that is provided with this type of frame.

2.04 Drawing 242-B-88 shows, in schematic form, the method of cabling the vertical main distributing frame terminal strips to the protectors.

3. DESIGNATION OF FRAMES

3.01 Designation boards are furnished for both sides of the protector frame and the vertical side of the main distributing frame. A duplicate set of designation boards is furnished for the under side of the mezzanine platform. The numbers of the cables terminated on each vertical together with the vertical numbers are stamped on these boards. Drawing 242-B-39 shows the method of numbering the designation boards for the vertical side of the main distributing frame.

3.02 The main frame verticals are numbered consecutively from one up. The associated protector frame verticals carry the same numbers, but in addition the letter "A" or "B." The letter "A" is assigned to the portion of the protector frame verticals on the side away from the main frame and "B" to the portion on the near side. Thus, vertical 39-A would be on the far side associated with the 39th vertical on the main frame. Where the protector frame verticals are omitted to provide aisle space, the associated numbers are likewise omitted.

3.03 The terminal strips on the vertical side of the main distributing frame are stamped with the cable numbers, the first and last pair of each group of 100 circuits, or portions thereof, which are terminated on a terminal strip, and each intermediate pair whose number ends in zero or five. These numbers agree with the pair numbers on the associated protectors. The last two digits of the numbers are placed on the sides of the retaining and fanning strips and the hundreds numbers on the face of the retaining strip.

4. CROSS-CONNECTION FACILITIES

4.01 The cross-connection facilities on the main frame when a separate protector frame is employed are practically the same as on main frames of the usual type the only difference being that terminal strips are substituted for protectors.

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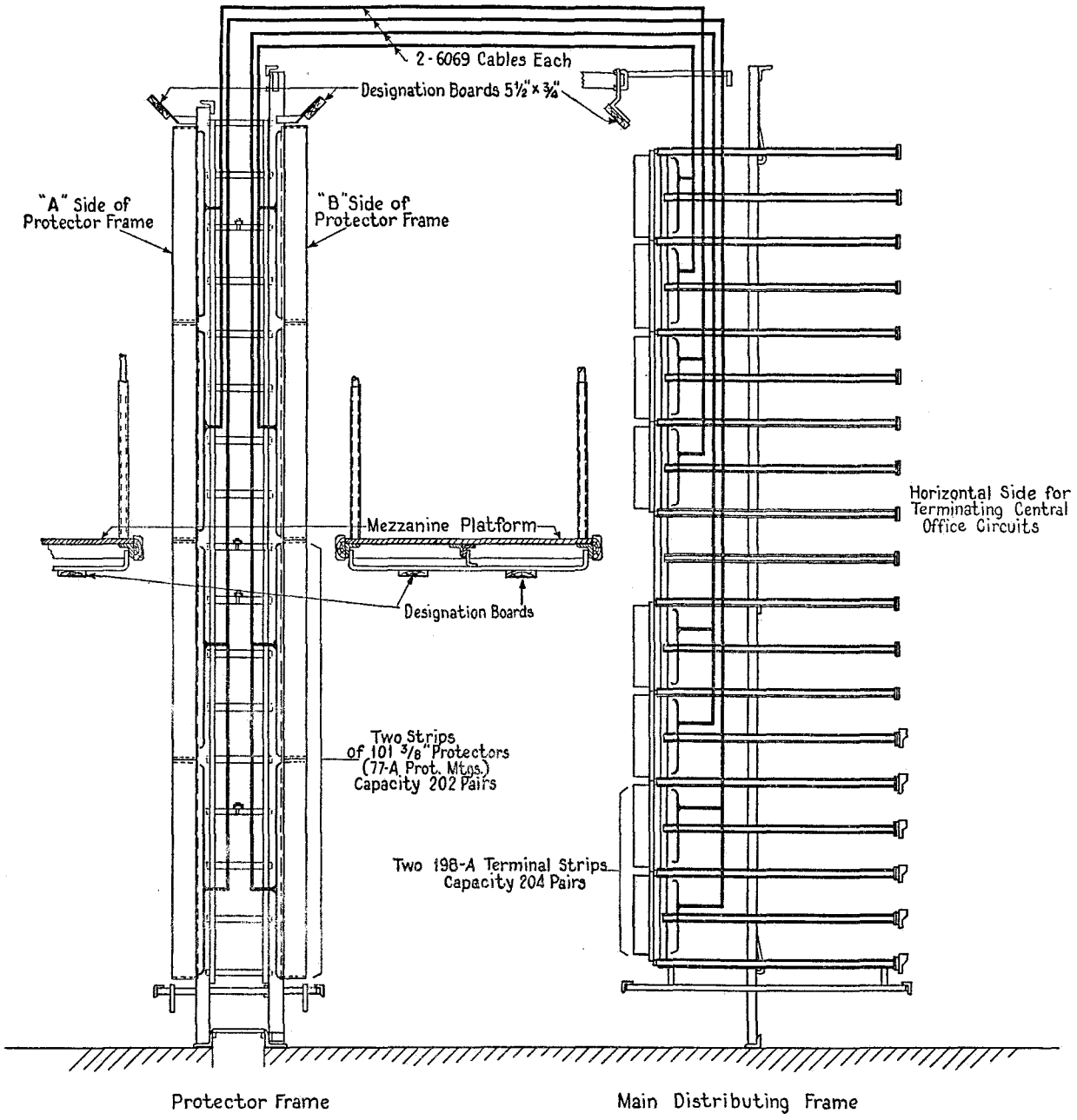
COMMON SYSTEMS

SCHEMATIC ARRANGEMENT
Of Protector and Main Distributing
Frames with Cabling

242-B-88
Information

Engineer
Draftsman FME
Checked by
Log No. P22635 8,5,30
ISSUE 1



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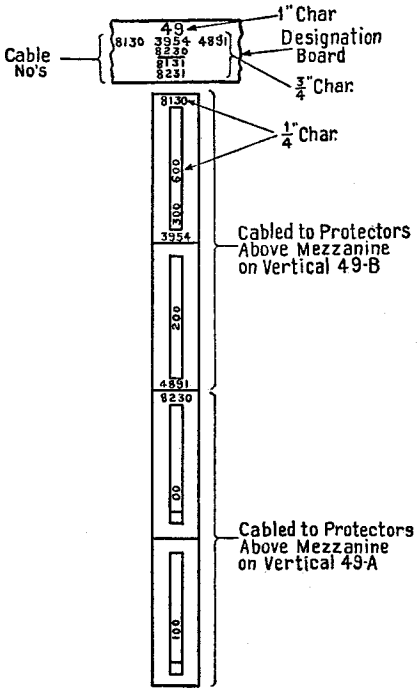
COMMON SYSTEM

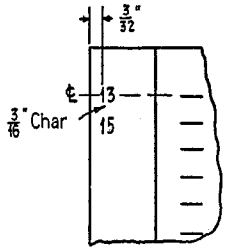
242-B-39
Information

TERMINAL STRIP NUMBERING AND TYPICAL ARRANGEMENT OF VERTICAL MAIN DISTRIBUTING FRAME WITH SEPARATE PROTECTOR FRAME.

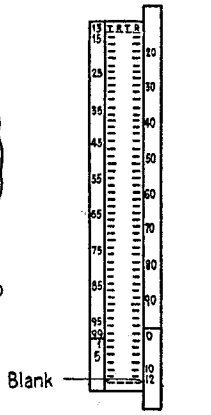
Engineer:
Draftsman: C.J.M.
Checked by:
Log No. P-22494, 5-1-'30
Redrawn because of extensive changes.
Issue 2

Fig. 2 removed. Size of characters not shown.
Log No. P-22622 7-2530
ISSUE 3

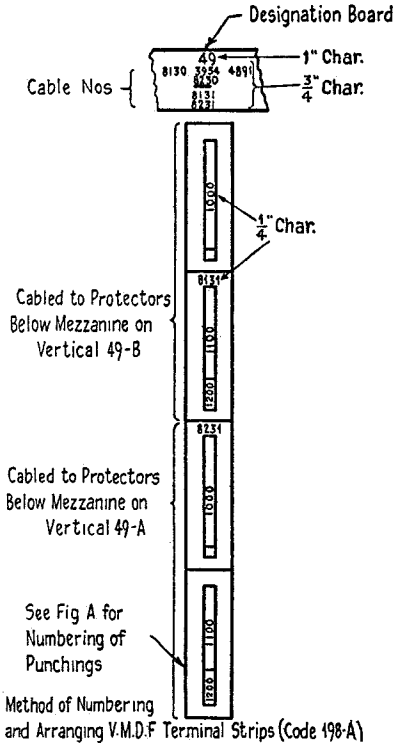




Location of desig. on retaining strip of 198-A Terminal Strip
FIG-B



Method of Numbering Punchings of No. 198-A Terminal Strips
FIG. A



Method of Numbering and Arranging V.M.D.F Terminal Strips (Code 198-A)

5. MAINTENANCE EQUIPMENT

Jack Boxes

5.01 Jack boxes for the plugging-up and test lines are placed at regular intervals on both sides of the protector frame.

5.02 The plugging-up lines and the test lines from the test desk require protectors but no cross-connection facilities. Inasmuch as jumper rings are ordinarily not furnished for the first vertical of a main frame when the growth is from right to left, the associated protector frame vertical is not utilized for terminating underground cables. Because of this and in order to provide a definite and uniform location for the plugging-up and test line protectors, the first vertical of the protector frame is reserved, irrespective of direction of growth, for these lines.

(This section consists of excerpts from D. & R. Bulletin No. 499.)