LAYING OUT FLOORS

CROSSBAR OFFICES - NO. 1 AND NO. 4 TOLL

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2. GENERAL

2.1 Scope of Section

2.11 This section covers specific information, requirements and methods for laying out floors in No. 1 Local and Tandem and No. 4 Toll Crossbar Offices.

2.2 Associated Information

2.21 Section 6A covers common information, requirements and methods for laying out floors including the usual procedures for locating and laying out reference lines, marking lines on the floor representing the ends of lineups, edges of guard rails and cable racks, and the fronts of frame bases; marking the locations of intermediate frames in the lineup; marking frame designations and spotting the location of expansion bolt holes. Precautions and the arrangement of tools to be observed when laying out floors and the installing equipment that may be required is also covered in Section 6A.

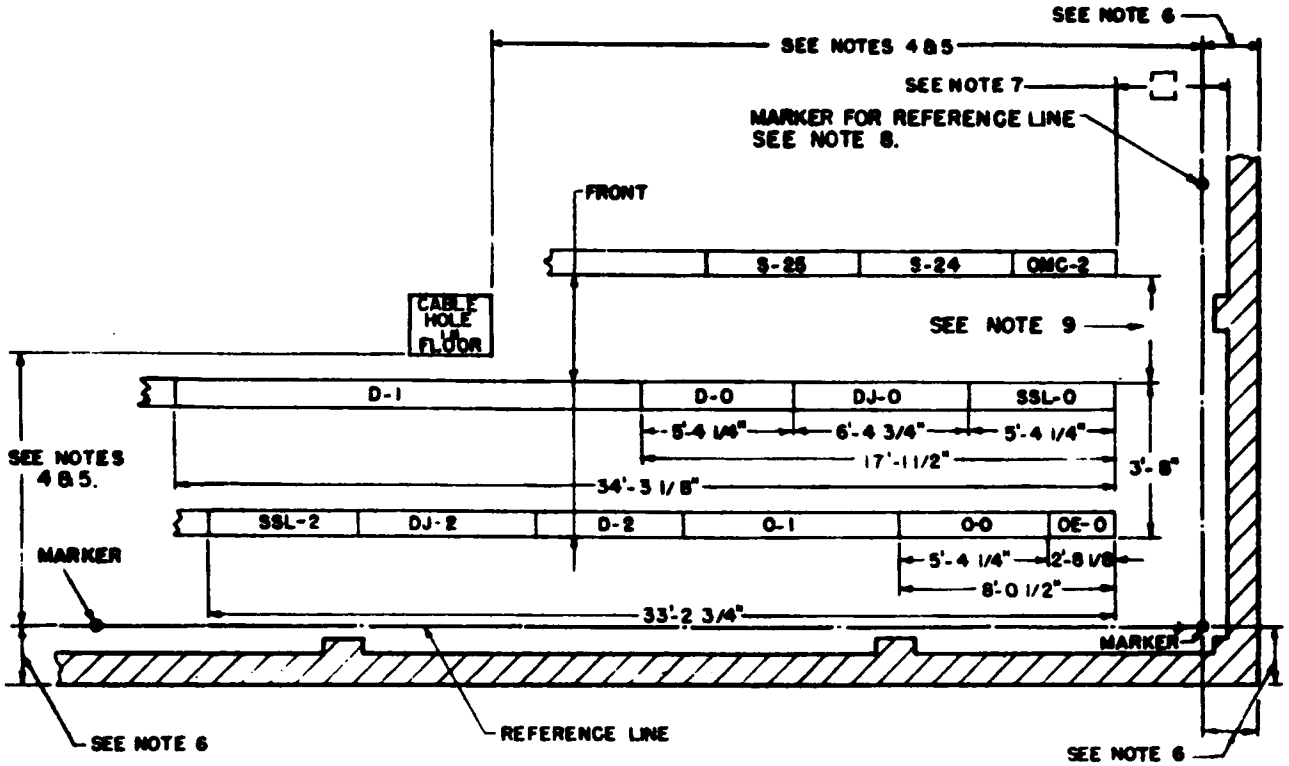
2.22 Items for the verification of the work performed by the operations covered in this section are listed in Section 6V.

2.23 To prevent accumulative errors, the items marked "P" in Section 6V are so designated to denote that the work covered by the items should be verified before other operations are started.

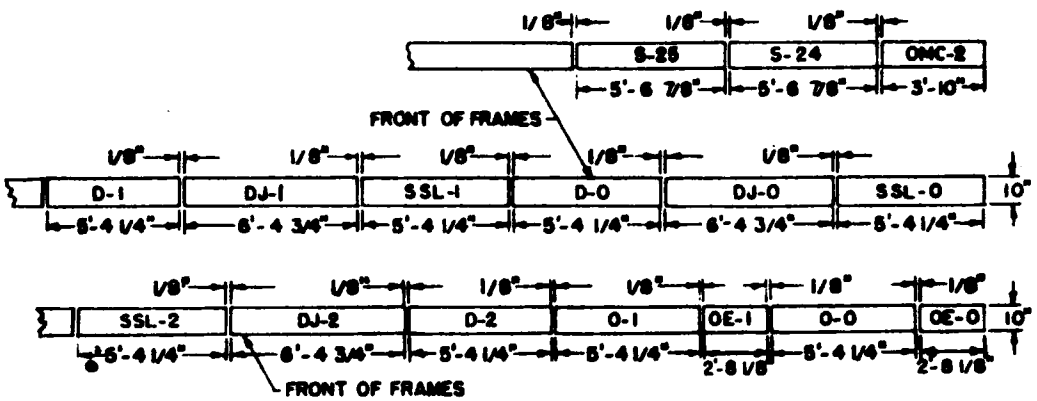
3. FLOOR PLANS FOR NO. 1 AND NO. 4 CROSSBAR OFFICES

3.1 The top portion of Figure 1 shows, in part, a typical floor plan for a No. 1 Crossbar Office. Similar conventions and engineering practices apply to No. 4 offices. On the lower portion of Figure 1 the detailed dimensions for all of the equipment shown on the typical floor plan have been filled in as follows:

(a) The standard width of crossbar frames is 10". This information appears in the manufacturing notes of the floor plan drawing.



TYPICAL FLOOR PLAN.



DETAILS OF EQUIPMENT SHOWN ON TYPICAL FLOOR PLAN ILLUSTRATED ABOVE.

NOTES:

1. CLEARANCE BETWEEN ENDS OF FRAMES IS 1/8" UNLESS OTHERWISE SHOWN.
2. WIDTH OF FRAMES IS 10" INCLUDING GUARD RAILS UNLESS OTHERWISE SHOWN. FRAMES WIDER THAN 1'-0" EXCLUDE GUARD RAILS.
3. FRAMES SHOWN IN BLOCK FORM HAVE THE SAME DIMENSIONS AS THE FIRST FRAME OF THE PARTICULAR GROUP UNLESS OTHERWISE SHOWN.
4. DIMENSIONS OF CABLE HOLES ARE TO THE INSIDE OF THE FINISHED CABLE HOLE SHEATHING.
5. VERIFY CABLE HOLE LOCATION BEFORE LAYING OUT FRAME LINEUPS.
6. DIMENSIONS GIVEN WHEN MARKERS ARE NOT PROVIDED.
7. DIMENSIONS GIVEN IN BRACKETS ARE APPROXIMATE, AND SHALL NOT BE USED BY INSTALLERS.
8. MARKERS MAY EITHER BE IN WALLS OR FLOORS. SEE NOTE 6.
9. WHERE THE COLUMN SPACING IS 18'-6" THE APPARATUS AISLE WILL BE 2'-6" WIDE AS SHOWN. WHERE THE COLUMN SPACING IS 18'-0" OR 20'-0" THE APPARATUS AISLE WILL BE 3'-0" WIDE.

(RP-12982-0)

FIG. 1 FLOOR PLAN CONVENTIONS AND DETAILS OF EQUIPMENT FOR NO. 1 AND NO. 4 CROSSBAR OFFICES (Par. 3.1)

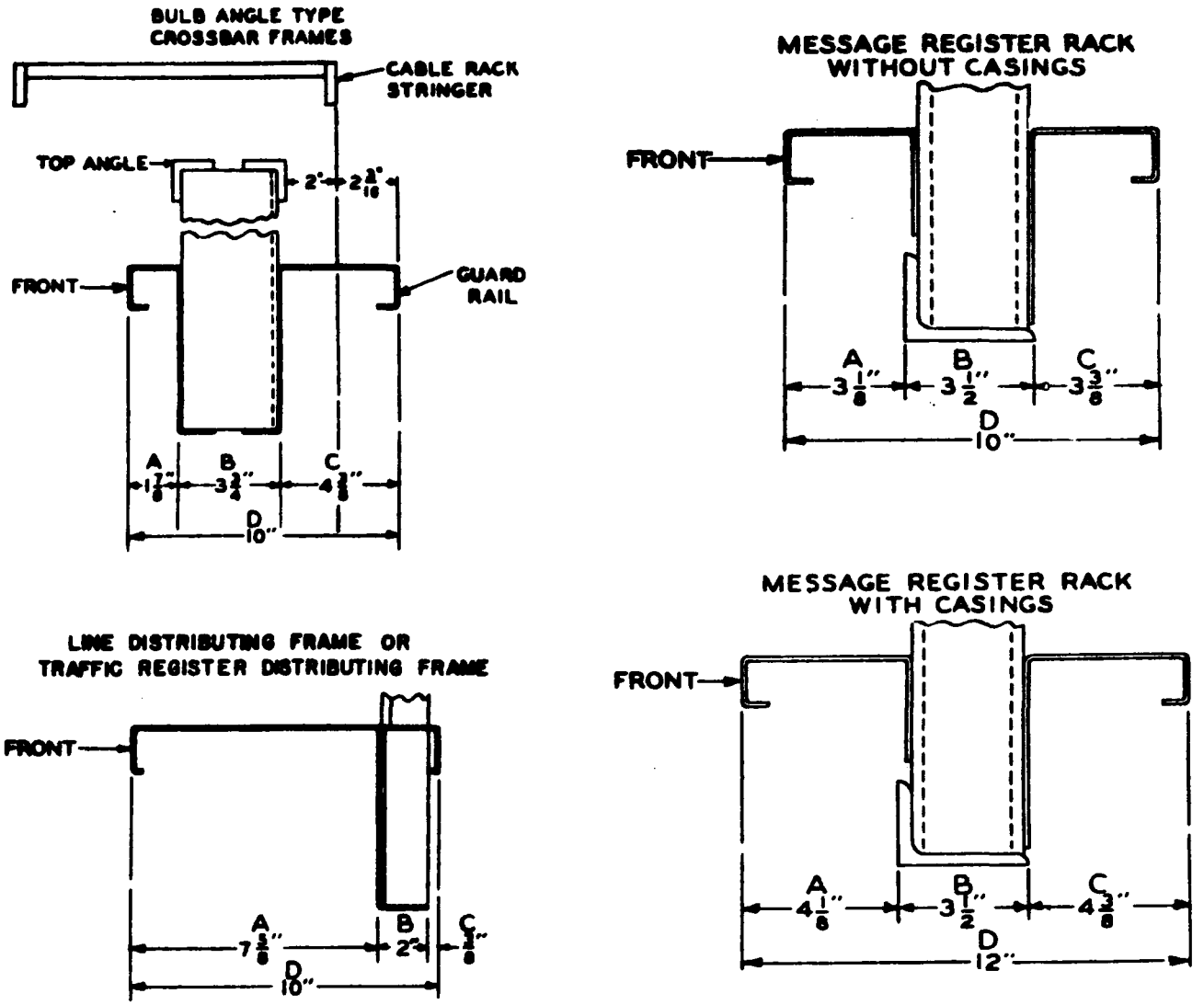


FIG. 2 DIMENSIONS FOR LAYING OUT FLOOR IN NO. 1 AND NO. 4 CROSSBAR OFFICES (Pars. 4.1, 4.11, 4.12)

(b) The clearance between ends of frames, whether definitely indicated or not, is 1/8" unless otherwise shown on the floor plan drawing. This information appears in the manufacturing notes.

(c) The dimensions for OMC-2, S-24 and S-25 are the same as given for the first frame in the respective group which appears on the portion of the floor plan drawing not shown in the figure. Similarly the dimensions for D-1, O-1, D-2, DJ-2 and SSL-2 are the same as shown for the first frame in the respective group as indicated in the portion of the floor plan shown at the top of the figure.

4. LOCATING FRAME BAYS

4.1 Locate the equipment to conform with the dimension on the floor plan drawing using the lateral dimensions (A, B, C, etc.) shown in Figure 2.

4.11 The cable racks associated with bulb angle type crossbar frames, in offices where the apparatus aisle is 3'-0" and the wiring aisle is 2'-0", may be located 2" from the rear guard rail instead of 2-3/16" shown in Figure 2, when it is desirable to have the sections of the cross aisle cable racks in the wiring and apparatus aisles of equal length. This arrangement cannot be used in offices having 2'-6" apparatus aisles.

4.12 All major and miscellaneous frames, including relay racks and fuse bays, of bulb angle type in No. 1 and No. 4 Crossbar Offices have the same A, B, C and D dimensions shown in Figure 2 for bulb angle type crossbar frames.

5. LOCATING EXPANSION BOLT HOLES

5.1 An expansion bolt should be located as near each end of the lineup as practicable and intermediate bolts spaced not to exceed 10'-0" centers (Refer to E-582-211 for the location of expansion bolt holes on earthquake protection jobs).

5.2 For bulb angle type frames at the end of a lineup and for those intermediate frames which have to be anchored to the floor, locate the expansion bolt holes 3-3/4" from either end of the frame to insure that no interference between the bolts and the leveling screw plates welded to the bottom of the frame is encountered.

5.3 Using a star drill and hammer, mark the location of each expansion bolt on the floor.

→ Arrowed lines indicate new or changed information.

6. LEVELING SCREWS

6.1 The leveling screws used for frames having sheet metal bases are cone pointed screws. It will not be necessary to cut out the linoleum under the screws as they will cut through the linoleum by themselves.

Engineer of Installation

Vertical lines at side of paragraphs indicate requirements.

Reason for Reissue:
(1) Note 9 added to Fig. 1 to indicate that apparatus aisles are either 2' 6" or 3'-0" wide, depending on the column spacing.
(2) The caption, Traffic Register Distributing Frame, added to lower left-hand sketch in Figure 2.
(3) Par. 4.11 corrected to indicate 2-3/16 in place of 2-1/16" and to indicate that equal length cross aisle cable rack cannot be used in offices having 2'-6" apparatus aisles.
(4) To make minor changes throughout the section.

Replaces Section 6B of 4-19-51.