

JOB DRAWINGS

FLOOR PLANS

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1. GENERAL

1.1 Scope of Section

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1.11 This Section describes the floor plan drawings most commonly encountered and explains the use thereof. The numbering plan applied to job drawings is covered in Section 1 of this handbook.

2. FLOOR PLAN DRAWINGS

2.1 When Prepared

2.11 A floor plan drawing is prepared for every floor. In the case of large buildings, it may cover only a wing or a portion of the floor. Figure 1 shows that portion of a typical floor plan drawing covering the equipment layout. The associated sketches, manufacturing notes and tables described herein, are omitted from Figure 1. The sketches appearing on this particular floor plan drawing are shown in Figure 2; the associated manufacturing notes and tables are shown in Figure 3.

2.2 Scope of Floor Plan Drawings

2.21 The layout of the entire floor is shown on floor plan drawings although the equipment may occupy only a small portion of the floor space. Present equipment is shown with solid lines and future equipment with dotted lines. Refer to Figure 1.

2.22 The following building information is generally shown on the floor plan drawings:

2.2201 Beam Clamps and Ceiling Inserts: Where architect plans are not available showing ceiling inserts or "Acme" beam clamps, this information is shown in a manufacturing note.

2.2202 Building Conduits and Service Pipes: The location and outside diameter of all building conduits and service pipes which may cause interference with equipment or cable runs. Refer to Figure 1.

2.2203 Ceiling Beams and Girders: A beam plan of the ceiling, a list of dimensions of the beams and girders and a sketch showing the construction of the floor above. Refer to Figure 2.

2.2204 Columns: The size and location of columns. Columns having a base moulding are shown with dimensions representing the size without the base moulding. Refer to Figure 1.

2. FLOOR PLAN DRAWINGS

2.1 When Prepared

2.2 Scope of Floor Plan Drawings

2.3 Reference Lines

2.2205 Doors: The location, width and swing of all doors. Where there is a possibility of a door interfering with the equipment, the locating dimensions of the door are shown. Refer to Figure 1.

2.2206 Miscellaneous Building Details: The location of drinking fountains, toilet rooms and fixtures, radiators, soldering copper furnaces, fire escapes, cable and pipe ducts, gas engine vents, gas and electric sleeves, electric cut-out boxes, drains in areas and raised platforms. Some of these features are shown in Figure 1. The location of fire apparatus, lockers, etc., are shown on some floor plan drawings.

2.2207 Partitions: The thickness and location of partitions, refer to Figure 1. When a partition does not reach the ceiling, its height and details of construction are shown.

2.2208 Pilasters: The location width and projection of all pilasters. Refer to Figure 1.

2.2209 Skylights and Ventilating Ducts: The size, location and distance above the floor. Figure 1 shows the size, etc., for ventilating ducts.

2.2210 Walls: Length and width of building; thickness of finished walls; inside dimension of equipment rooms or rooms through which cable runs are to pass. Refer to Figure 1. Where outside walls of buildings are not at right angles, specific angles are shown in degrees and minutes; where outside walls are offset at different floors, the amount of offset with relation to the main frame floor is indicated.

2.23 Floor plan drawings show the size and location of all cable holes, slots, sleeves and terminating ends of floor ducts, together with information as to whether they are present or future. Refer to Figure 1.

2.24 Terminal and apparatus floor plan drawings issued after the initial installation include a table showing a history of all "added," "removed" or "relocated" equipments. Relocations which involve a change in a bay or frame number are considered as "removed" and "added." Refer to Figure 3.

2.25 The newer floor plan drawings, except in those cases where existing rolling ladder drawings (-700) are available on which the record of the rolling ladder equipment can be shown, include a table showing the rolling ladder equipment. Refer to Figure 3. Where space is not available on the floor plan drawing to accommodate the table, the information is shown on the associated cable and cable rack plan drawing and a reference to this drawing is made in the manufacturing notes of the floor plan drawing.

2.26 Where two or more pieces of miscellaneous equipment units such as code signaling sending device, fire detection relay, audible signal alarm, call bell, etc., are to be mounted in the same general area on walls or columns detailed locating and cabling layout information will be provided. The locating dimensions and the cabling layout may be shown in separate sketches on the job floor plan and cabling plan drawings respectively or combined in one sketch on either drawing. If a combined sketch is provided on one drawing a suitable note referring to the dimensions or cabling layout will be placed on the other drawing.

No arrows are shown due to extensive changes.

2.3 Reference Lines

2.31 Reference lines are an important feature on floor plan drawings. They are lines usually drawn between markers permanently placed in the floor or walls. Refer to Figure 1. All equipments, cable holes, slots and the like are located from reference lines rather than from walls, as any slight irregularities in the walls might change the relative locations of equipment to such an extent that shop formed cables would be too short or too long for the runs.

2.311 Dimensions locating reference lines (or markers from which reference lines are established) are generally shown outside the building line in order that they may not be confused with equipment locating dimensions. Refer to Figure 1.

2.312 The widths of aisles and passageways between frames, racks and switchboards are generally enclosed in brackets, except where they are required for locating purposes. Locating dimensions on floor plan drawings are not enclosed in brackets. Refer to Figure 1.

Manager, Engineering Practices

ATTACHMENT

Figures 1, 2 and 3 on Pages 3, 5 and 6.

Reason for Reissue:
General revision of Section 7, series floor plan drawing information transferred to Section 7A.

Replaces part of Section 7 dated 12-2-54.

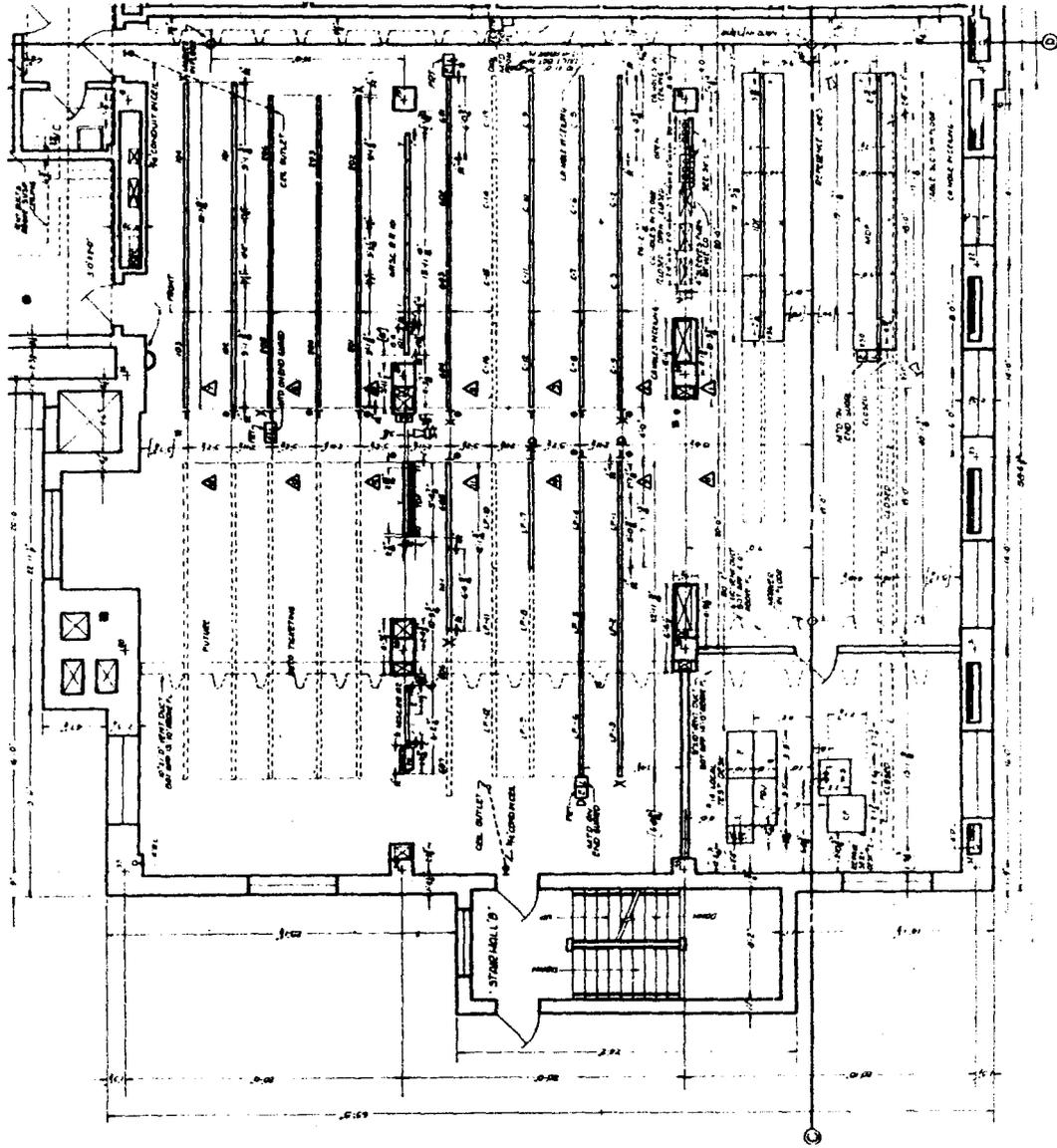


FIG. 1 TYPICAL FLOOR PLAN DRAWING

