LAYING OUT FLOORS
STEP-BY-STEP OFFICE

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1. GENERAL

1.1 Scope of Section

1.11 This section covers specific information, requirements and methods for laying out floors in Step-by-Step Offices.

1.2 Associated Information

1.21 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 line-ups, edges of guard rails and cable racks, and the fronts of frame bases; marking the locations of intermediate frames in the line-up; marking frame designations and spotting the location of floor anchors. Precautions and the arrangements of tools to be observed when laying out floors and the installing equipment that may be required is also covered in Section 6A.

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

1.23 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.

2. FLOOR PLANS

2.1 The floor plan convention and details for Universal Switch Frames and Selector Frames (with Distributing Terminal Assembly) having sheet metal base assemblies and bulb-angle uprights are shown in Figures 1 and 2, respectively.

2.2 The floor plan convention and details for the various step-by-step frames having channel uprights, angle bases and angle type guard rails are similar to the switch frame conventions and details shown in Figure 3.

3. LOCATING AND MARKING POSITIONS OF FRAMES ON FLOOR

3.1 Locate the frames to conform with the dimensions on the floor plan drawings. Frame locating dimensions for a line-up of step-by-step frames are to the front surface of the guard rail for frames equipped with sheet metal bases or to the front surface of the base angle for frames equipped with base angles. The lateral locating dimensions are to the edge of the frame sheet metal base or base angle. See Figures 1, 2 and 3.

3.2 In general, follow the procedure for laying out floors as outlined in Section 6A.

NOTICE: NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT

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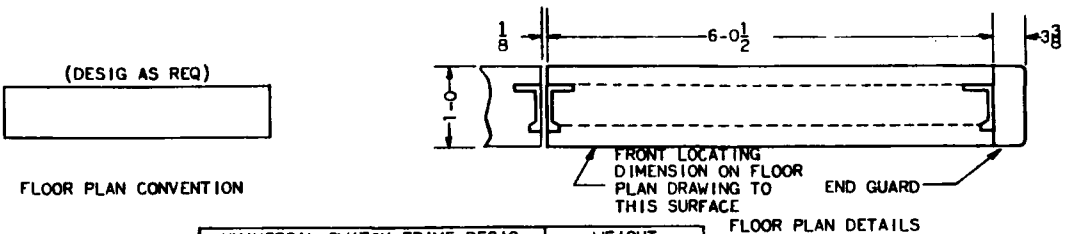

UNIVERSAL SWITCH FRAME DESIG		WEIGHT		
USED TO	DESIG	7 - 0 HIGH	9 - 0 HIGH	11 - 6 HIGH
SWITCH FRAME	SW-	1680	2000	2400
CONNECTOR FRAME	C-	1340	1900	2600
LINE FINDER FRAME	LF-	1180	1500	1900
TRUNK FINDER FRAME	TF-	1340	1900	2600
SELECTOR FRAME	SEE NOTE 1	1700	2300	3100
MISC FRAME	M-	1680	2000	2400
REPEATERS	R-	1680	2000	2400

NOTES:
1. FOR IDENTIFICATION ON THE FLOOR PLAN, SELECTOR FRAMES ARE NUMBERED AS FOLLOWS:

FIRST SELECTOR FRAMES BEGIN WITH 101.
SECOND SELECTOR FRAMES BEGIN WITH 201.
THIRD SELECTOR FRAMES BEGIN WITH 301.
FOURTH SELECTOR FRAMES BEGIN WITH 401.
TOLL SELECTOR FRAMES BEGIN WITH 601.

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FIG. 1 UNIVERSAL SWITCH FRAME - SHEET METAL BASE AND BULB ANGLE UPRIGHTS - FLOOR PLAN CONVENTION AND DETAILS. (PARS. 2.1, 3.1)

3.3 The specific dimensions and floor markings for frames with the different types of base, upright, cable rack and auxiliary framing fastening arrangements are shown in Figures 4 to 7.

4. LOCATING FLOOR ANCHORS

4.1 Sheet Metal Base

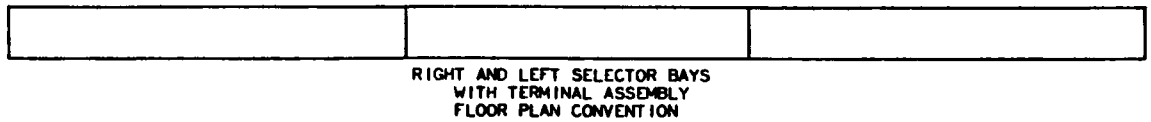
4.11 Mark locations of each floor anchor along center line of base marked on floor per Figure 4 or 7.

4.12 A floor anchor should be placed in each hole provided in the base.

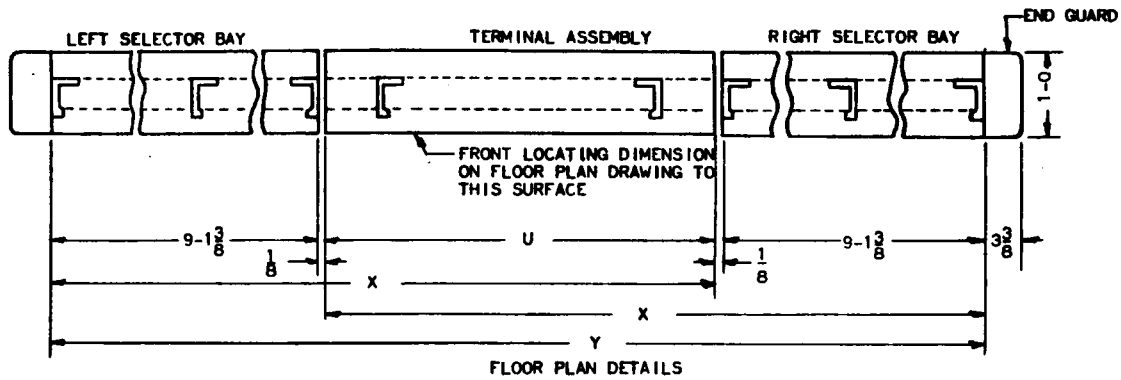
4.13 Location of holes should be determined from the sheet metal bases being installed. The base may be used as a template for marking the location of the holes. Where a large number of frames are being installed, it may be desirable to make templates for the location of holes for each one of the various sheet metal bases that are to be installed.

4.2 Angle Base

4.21 A floor anchor should be placed at each hole provided in the base angle unless otherwise specified on the framework assembly drawing.



RIGHT AND LEFT SELECTOR BAYS
WITH TERMINAL ASSEMBLY
FLOOR PLAN CONVENTION



FLOOR PLAN DETAILS

WEIGHT AND VARIABLE DIMENSIONS					
FRAME	WEIGHT 11-6 HIGH		VARIABLE DIMENSIONS		
	X	Y	U	X	Y
LOCAL	3600	6600	4-5 13/16	13-7 3/8	22-8 13/16
2 PTY MR	3700	6800	5-4 3/4	14-6 5/16	23-7 3/4

NOTES:
1. WHEN A LINE CONSISTING OF A SELECTOR BAY AND TERMINAL ASSEMBLY ONLY IS LOCATED ADJACENT AND AT RIGHT ANGLES TO A WALL THE TERMINAL ASSEMBLY SHALL BE ON THE END AWAY FROM THE WALL.
2. THE LOWER NUMBERED BAY SHALL BE AT THE LEFT FACING THE FRONT OF THE LINE.
3. SELECTOR FRAMES CONSISTING OF A SINGLE BAY WITH TERMINAL ASSEMBLY MAY BE PLACED IN LINE WITH CONNECTOR, REPEATER, OR SELECTOR FRAMES WITHOUT TERMINAL ASSEMBLY BAYS WHEN A LINE OF EITHER OF THESE FRAMES WOULD OTHERWISE BE INCOMPLETE.
4. A COMPLETE FRAME WHICH CONSISTS OF TWO SELECTOR BAYS AND TERMINAL ASSEMBLY SHALL COMPRISE A FULL LINE-UP.
5. FOR TOLL SELECTOR FRAME SEE FIG. 1.

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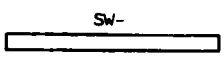
FIG. 2 SELECTOR FRAME WITH DISTRIBUTING TERMINAL ASSEMBLY - SHEET METAL BASE AND BULB ANGLE UPRIGHTS - FLOOR PLAN CONVENTION AND DETAILS. (PARS. 2.1, 3.1)



FLOOR PLAN CONVENTION

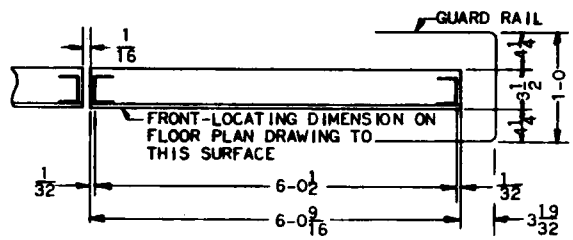


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FIG. 3 SWITCH FRAME - CHANNEL UPRIGHTS, ANGLE BASE AND ANGLE TYPE GUARD RAILS - A & M ONLY (PARS. 2.2, 3.1)

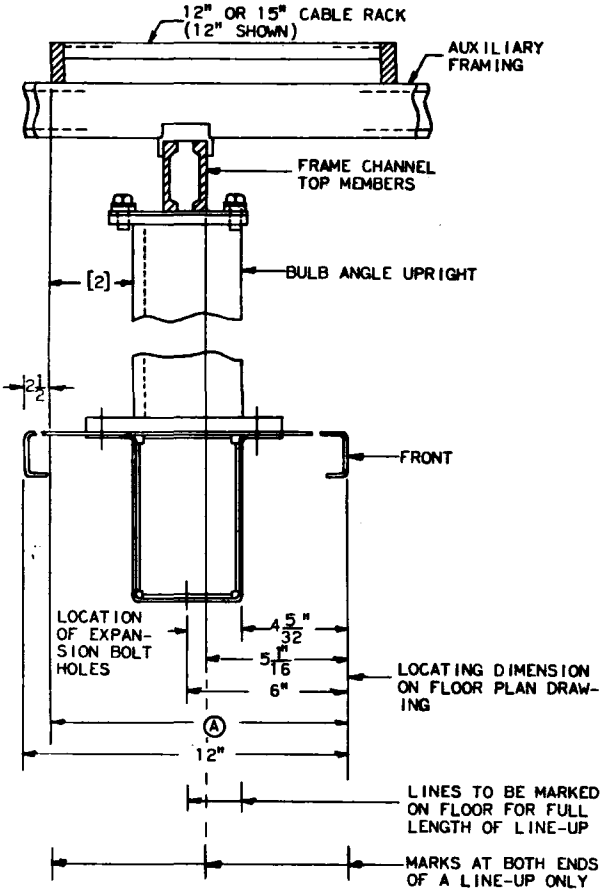


FIG. 4 DIMENSIONS AND FLOOR MARKINGS FOR STEP-BY-STEP SWITCH FRAMES - SHEET METAL BASE, BULB ANGLE UPRIGHTS, FRAME CHANNEL TOP MEMBERS AND 12" OR 15" CABLE RACK
(PARS. 3.3, 4.11)

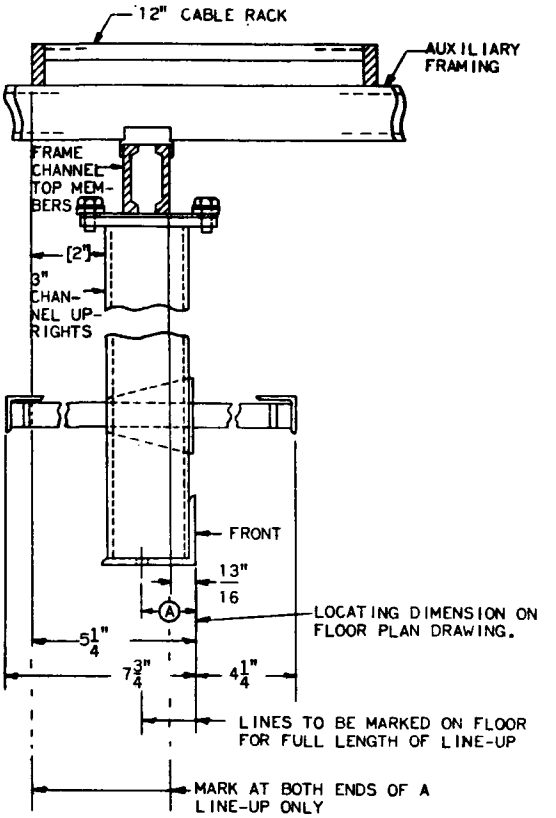
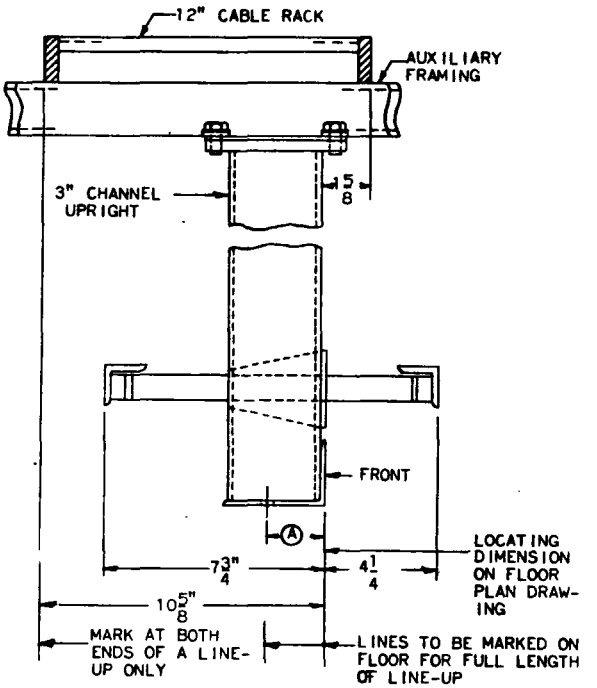


FIG. 5 DIMENSIONS AND FLOOR MARKINGS FOR STEP-BY-STEP SWITCH FRAMES - ANGLE BASE, CHANNEL UPRIGHTS, FRAME CHANNEL TOP MEMBERS AND 12" CABLE RACK
(PARS. 3.3, 4.22)



Ⓐ SEE DRAWING H-582-226 FOR LOCATION OF EXPANSION BOLT HOLES.

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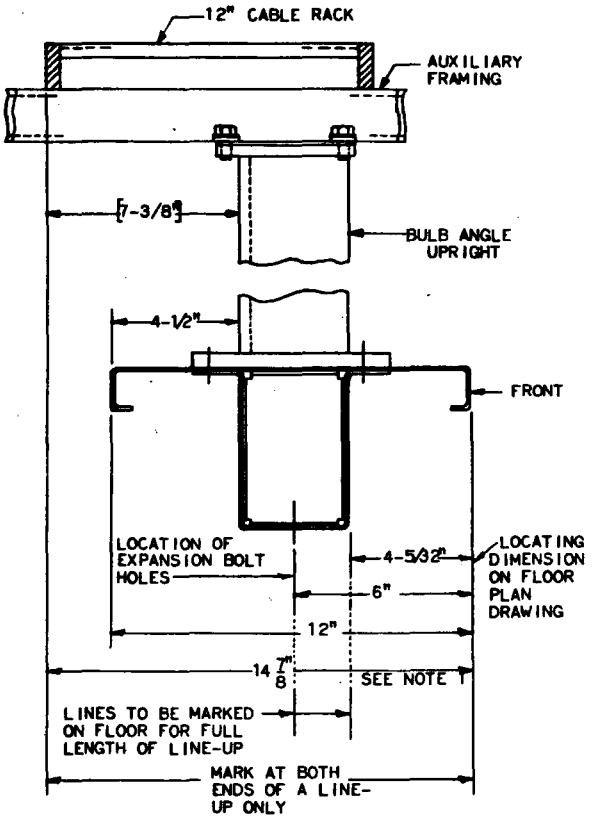
FIG. 6 DIMENSIONS AND FLOOR MARKINGS FOR STEP-BY-STEP SWITCH FRAMES - ANGLE BASE, CHANNEL UPRIGHTS AND 12" CABLE RACK - A & M ONLY (PARS. 3.3, 4.22)

4.22 See drawing H-582-226 for the location of holes. The angle base may be used as a template for marking locations. Where a large number of frames are being installed, it may be desirable to make templates for the location of holes for each of the various angle bases that are to be installed. See Figures 5 and 6.

[Vertical lines at side of paragraph indicate requirements.



NOTE 1. WHERE FRAMES ARE ADDED TO AN EXISTING LINE-UP OF SXS SWITCH FRAMES, LOCATE CABLE RACK TO COINCIDE WITH EXISTING CABLE RACK UNLESS OTHERWISE SPECIFIED ON JOB DRAWINGS.

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FIG. 7 DIMENSION AND FLOOR MARKINGS FOR STEP-BY-STEP FRAMES - SHEET METAL BASE AND BULB ANGLE UPRIGHTS INSTALLED UNDER 11' - 6" AUXILIARY FRAMING - A & M ONLY (PARS. 3.3, 4.11)

Engineering Planning Manager
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Reason for Reissue:
(1) To delete BSP Reference
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