

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G61.125
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AT&T Co Standard

TERMINALS

DESCRIPTION

OF INSIDE CROSS - CONNECTING

TERMINALS

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1. GENERAL

1.01 This section describes the standard types of unprotected cross-connecting terminals which are available for use within buildings.

1.02 Issue 2 of this section has been prepared to bring the information into agreement with the design changes and additions that have been made to improve the inside cross-connecting terminals.

2. WALL TYPE TERMINALS

2.01 The G Type Binding Post Chamber, the 102 Type Adapter and the 30 and 31 Type Connecting Blocks referred to in this section are described in Section G61.121.

GC Type Cable Terminal Box

2.02 The GC Type Cable Terminal Box, illustrated in Paragraph 2.05, is a sheet metal housing having an olive-green finish. It is available in three sizes designed primarily to accommodate two G Type Binding Post Chambers of the sizes indicated in the following table:

<u>Boxes</u>	<u>Chambers</u>
GC32	G11 or G16
GC52	G16 or G26
GC102	G26 or G51

2.03 When it is necessary to terminate textile insulated cable in the GC boxes, 30 or 31 Type Connecting Blocks can be substituted for the G chambers by using 102B, 102C and 102D Adapters with the 11, 16 and 26-pair blocks, respectively.

2.04 The design of the box is such that the chambers can be installed with the stub cables extending through the U-shaped knockouts at either end of the box. It also permits of installing the adapters so that space can be provided at either end of the box to accommodate a single textile insulated cable which is to be terminated on two connecting blocks. Knockouts are provided in the side of the box opposite the cover hinges to permit two boxes to be mounted side by side with the cross-connecting wires almost entirely concealed within the boxes.

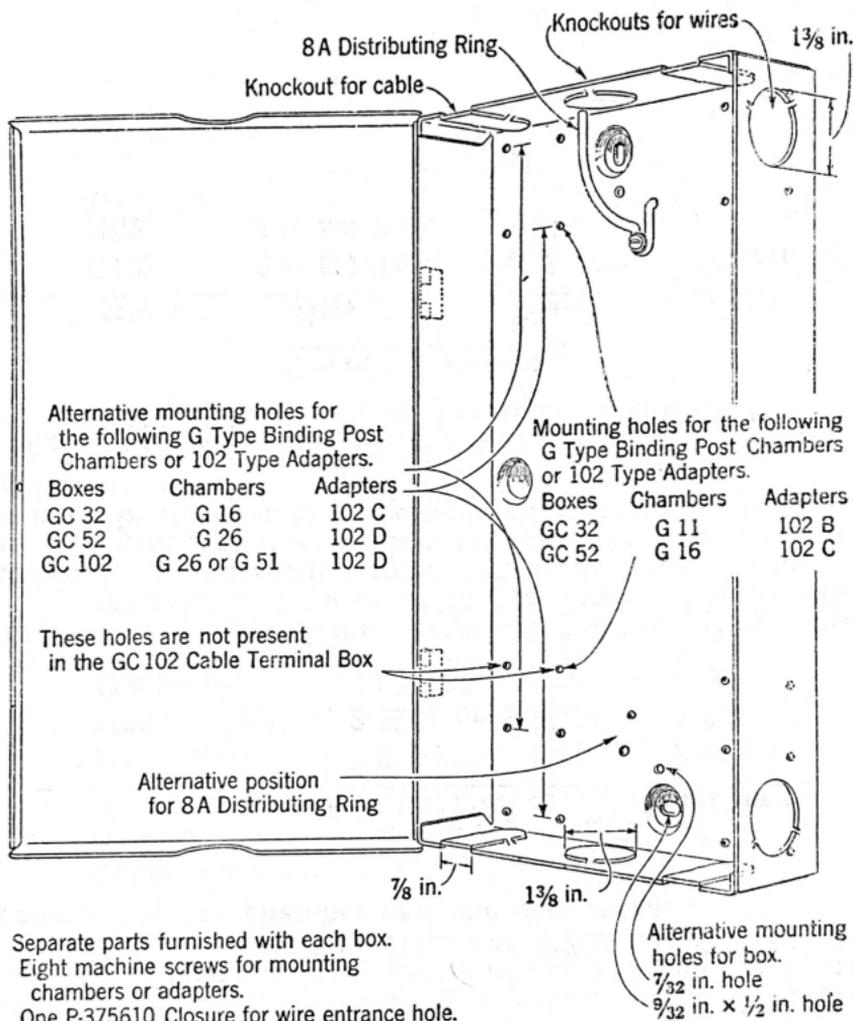
2.05 The overall dimensions and an illustration of the GC Type Cable Terminal Box follow:

Overall Dimensions

(Inches)

<u>Boxes</u>	<u>Height</u>	<u>Width</u>	<u>Depth</u>
GC32	15-1/16	8-9/16	2-9/16
GC52	21-5/16	8-9/16	2-9/16
GC102	21-5/16	12-5/16	2-9/16

GC TYPE CABLE TERMINAL BOX



H and J Type Cable Terminal Sections

2.06 The H Type Cable Terminal Section, of sheet metal composition having an olive-green finish, is an intermediate section which can be assembled in any number with the associated end sections, described in the following paragraph, to form the housing of a wall type cross-connecting cable terminal. The intermediate section is available in

three sizes, designated as the H102, H202 and H303 Cable Terminal Sections, and it consists of an assembly of a back, top, and bottom and also a lift-out type of door. The top and bottom parts contain an identical arrangement of knockouts for the entering cables and wires and these parts can be removed to facilitate placing the entering cables. The wiring rings located at each end of the section can be removed to facilitate the rearrangement of the terminating apparatus and the associated wires. The H sections are designed to accommodate H Type Binding Post Chambers or 82 Type Backboards in the numbers and sizes indicated in the following table. The H102 and H202 sections will also accommodate one chamber and one backboard.

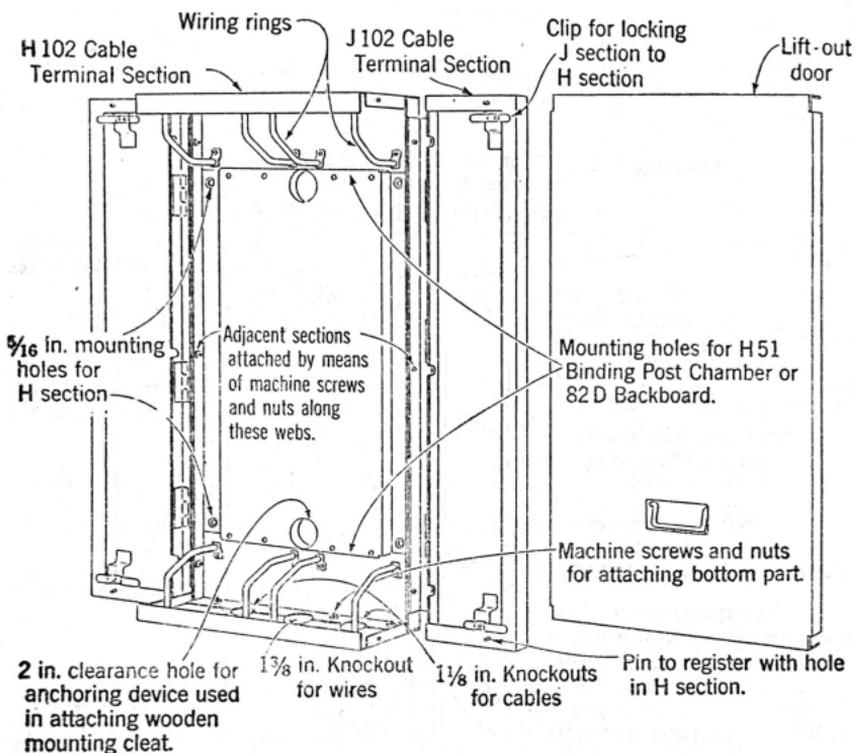
Cable Terminal Sections	Binding Post Chambers	Backboards
H102	2-H51	2-82D
H202	2-H51, 2-H76 or 2-H101	2-82A
H303	1-H303	1-82B

2.07 The J Type Cable Terminal Section, of the same material and finish as the H Type Cable Terminal Section, is an end section which is used to close the ends of one or a group of intermediate sections. The end section is available in three sizes corresponding to those of the intermediate sections.

2.08 The overall dimensions and an illustration of the H102 and J102 Cable Terminal Sections follow:

Sections	Overall Dimensions		
	Height	Width	Depth
H102	2 ft. 5-7/16 in.	1 ft. 2-1/2 in.	5-15/16 in.
J102	2 ft. 5-1/4 in.	1 in.	5-7/8 in.

H102 AND J102 CABLE TERMINAL SECTION ASSEMBLY



Separate parts furnished with each H section.
 Eight machine screws for mounting chambers.
 Five machine screws and nuts for joining adjacent H sections.
 Lift-out door

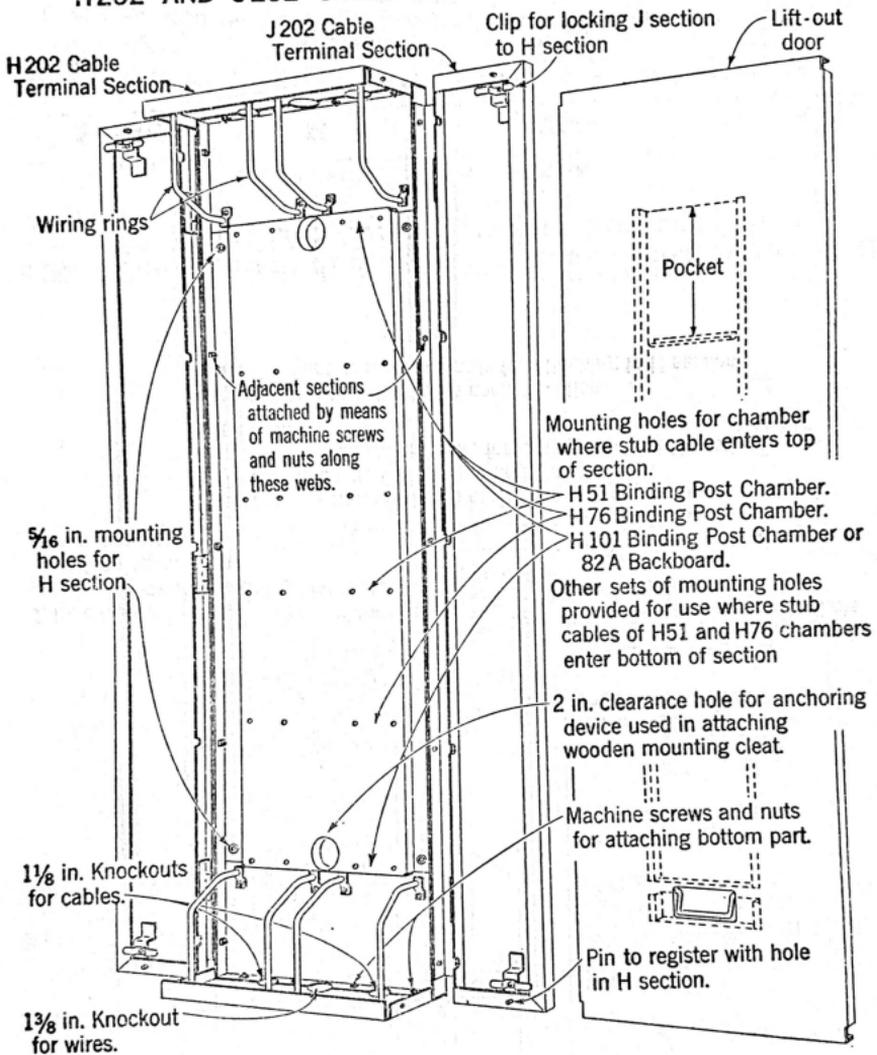
Separate parts furnished with each J section.
 Three machine screws and nuts for attaching to H section.

2.09 The overall dimensions and an illustration of the H202 and J202 Cable Terminal Sections follow:

Overall Dimensions

<u>Sections</u>	<u>Height</u>	<u>Width</u>	<u>Depth</u>
H202	4 ft. 2-3/16 in.	1 ft. 2-1/2 in.	5-15/16 in.
J202	4 ft. 2 in.	1 in.	5-7/8 in.

H202 AND J202 CABLE TERMINAL SECTION ASSEMBLY



Separate parts furnished with each H section.
 Eight machine screws for mounting chambers.
 Seven machine screws and nuts for joining adjacent H section.
 Lift-out door.

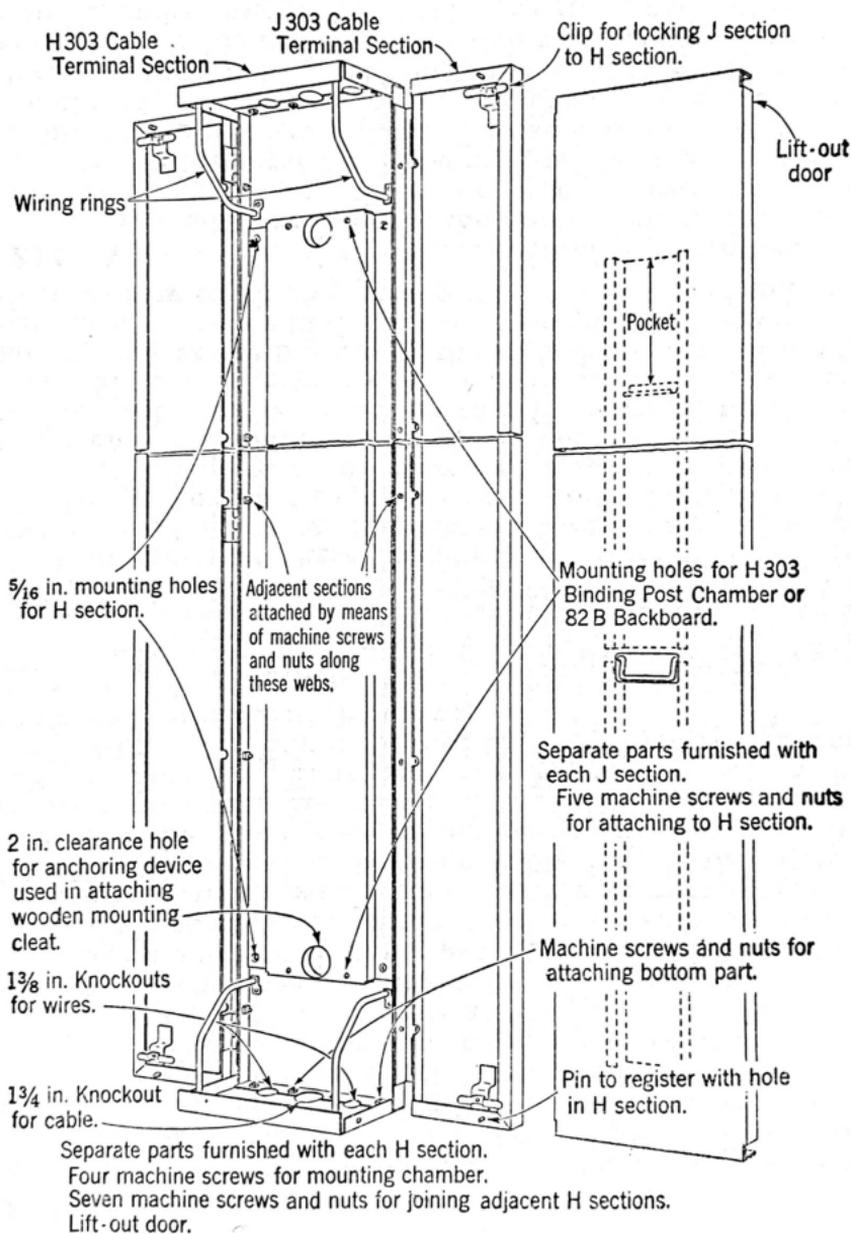
Separate parts furnished with each J section.
 Five machine screws and nuts for attaching to H section.

2.10 The overall dimensions and an illustration of the H303 and J303 Cable Terminal Sections follow:

Overall Dimensions

Sections	Height	Width	Depth
H303	5 ft. 8-5/16 in.	10-1/2 in	6-13/16 in.
J303	5 ft. 8-1/8 in.	1 in.	6-3/4 in

H303 AND J303 CABLE TERMINAL SECTION ASSEMBLY



DESCRIPTION OF INSIDE

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**CROSS-
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TERMINALS**

H Type Binding Post Chamber

2.11 The H Type Binding Post Chamber is a sealed chamber having olive-green finished sheet metal parts, a phenol fibre face plate and two wooden fanning strips. A 12-foot 26-gauge pulp insulated stub cable enters through a soldered connection at one end of the chamber and terminates on binding posts at the rear of the face plate. This type of chamber is available in 51, 76, 101 and 303-pair sizes and, in addition to being available with a stub cable as indicated above, it can be obtained without a stub. The nipple of the H51 chamber will accommodate a corresponding size of lead covered textile insulated cable but, if this type of cable is to be terminated in the larger H chambers, it is necessary to equip the H76 and the H101 chambers with P-290228 Chamber Ends and the H303 chamber with a P-290229 Chamber End instead of the end assemblies normally supplied with these chambers.

2.12 Viewing the H51, H76 and H101 chambers from the front with the stub cable at the top, the colored conductor of each cable pair is connected to the right-hand binding post and the white conductor to the left-hand post. The stub cables of these chambers are terminated on four rows of binding posts, the left-hand row of binding post pairs being connected to cable pairs 1 to 25, 1 to 38 and 1 to 50, for the three sizes of chambers respectively, beginning at the end toward the stub cable. The right-hand row of binding post pairs is connected to cable pairs 26 to 51, 39 to 76 and 51 to 101, respectively. The tracer or blue-red cable pair appears at the bottom of the right-hand row of binding post pairs, with an additional tracer pair at the bottom of the left-hand row of binding post pairs in the H101 chamber.

2.13 Viewing the H303 chamber from the front with the stub cable at the top, the colored conductors of all cable pairs, except the tracer or blue-red cable pairs, are connected to the right-hand binding posts and the white conductors to the left-hand posts. The stub cable is terminated on eight rows of binding posts as indicated in the following table. An extra pair of binding posts is located immediately below pair 303 for use when the stub cable enters the bottom of the chamber and is terminated as described above.

<u>Row Nos. of Binding Post Pairs (Left to right)</u>	<u>Cable Pairs (Top to bottom)</u>	<u>Cable Conductors</u>
1	1-50	White-Green
1	* 51	Blue-Red
1	52-76	White-Green
2	77-101	White-Green
2	102-151	White-Red
2	* 152	Blue-Red
3	153-228	White-Blue
4	229-252	White-Blue
4	253-302	White-Red
4	* 303	Blue-Red
4	Dead Pair	—

***Tracer Pairs**

2.14 When a top stub chamber is installed with the stub cable entering at the bottom, it is necessary that the conductors of this cable be spliced so that the cable terminations appear in the same relative positions on the face plate.

2.15 The H chambers are designed primarily for use in the sections described herein but they are also suitable for use in the built-in cabinets provided by building owners to conceal cable and wire terminations.

2.16 The overall dimensions and illustrations of the H Type Binding Post Chamber follow:

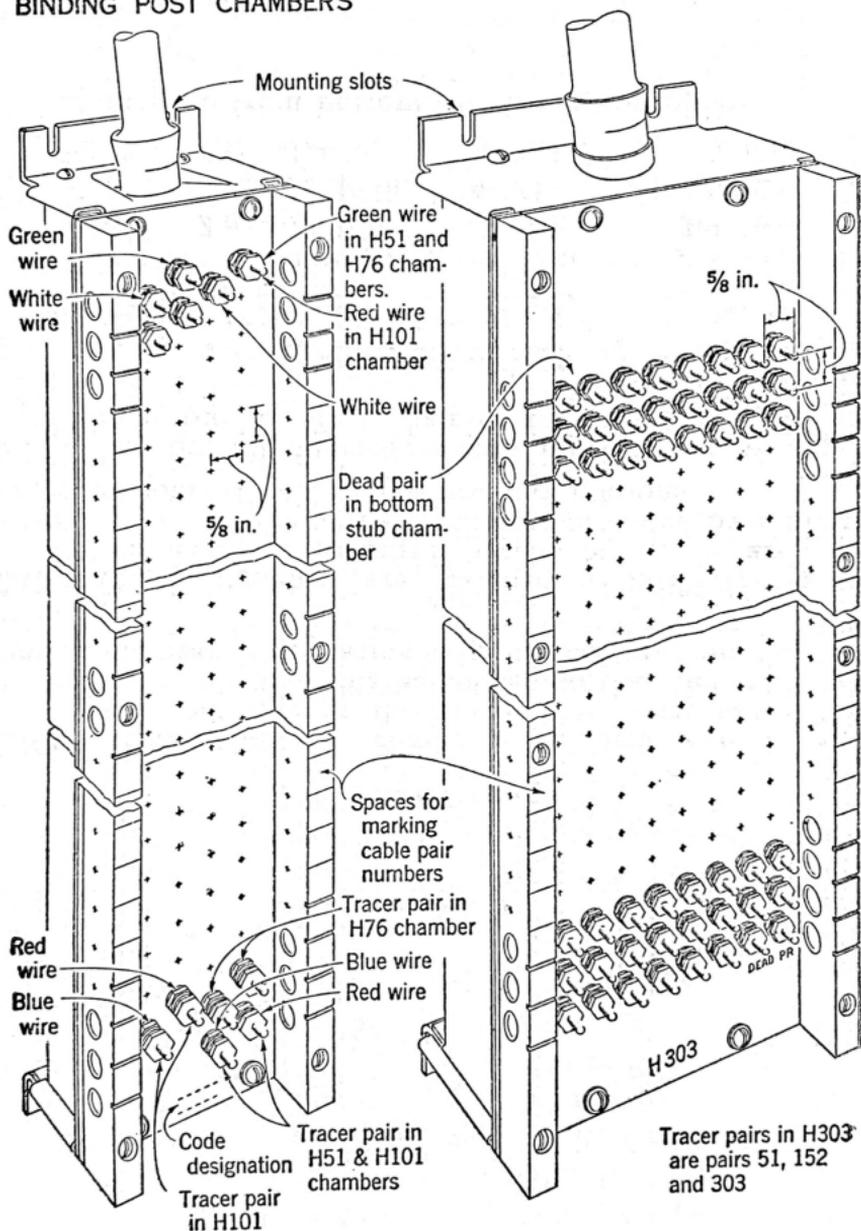
Overall Dimensions

<u>Chambers</u>	<u>*Height</u>	<u>Width</u>	<u>Depth</u>
H51	1 ft. 9-5/16 in.	4-1/4 in.	3-9/16 in.
H76	2 ft. 4-13/16 in.	4-1/4 in.	3-9/16 in.
H101	3 ft. 15/16 in.	4-1/4 in.	3-9/16 in.
H303	4 ft. 7-1/4 in.	6-5/8 in.	4-5/16 in.

*Dimension from bottom of base to top of nipple.

H51, H76 AND H101
BINDING POST CHAMBERS

H303 BINDING POST CHAMBER



82 Type Backboard

2.17 Wooden backboards, designated as 82A, 82B and 82D, are provided for use with the H Type Cable Terminal Section and the K606 Cable Terminal Section where it is necessary to install connecting blocks, G chambers or special equipment in these sections. An 82C Backboard is also provided for use at each end of an assembly of K606 sections to protect the workmen from the ends of the longitudinal wiring rods and it may also be used for mounting equipment. The four sizes of backboards and the sections with which they are used are listed in the following table:

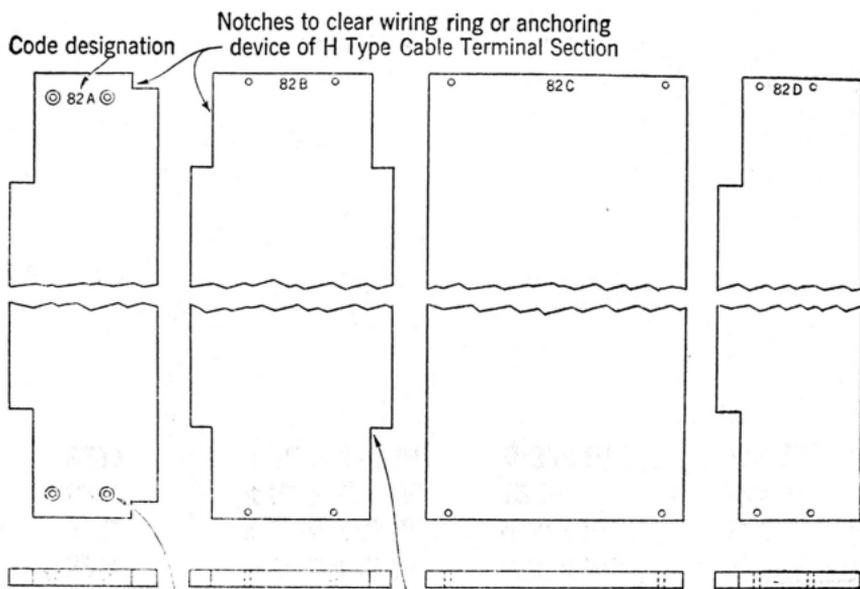
<u>Backboards</u>	<u>Sections</u>	<u>No. of Backboards per Section</u>
82A	H202	1 or 2
82B	H303 and K606	1 per H303; 1 or 2 per K606
82C	K606	*2
82D	H102	1 or 2

*One at each end of an assembly of K606 sections.

2.18 The overall dimensions and an illustration of the 82 Type Backboard follow:

<u>Overall Dimensions</u>			
<u>Backboards</u>	<u>Height</u>	<u>Width</u>	<u>Depth</u>
82A	3 ft. 2-1/2 in.	6-3/4 in.	3/4 in.
82B	4 ft. 6-7/8 in.	9-3/8 in.	3/4 in.
82C	4 ft. 7-5/8 in.	12 in.	3/4 in.
82D	1 ft. 9-3/8 in.	6-3/4 in.	3/4 in.

82 TYPE BACKBOARD



Mounting holes counterbored in 82 A Backboard to clear 102 Type Adapters.

Notched for access to anchoring devices of H Type Cable Terminal Section.

Separate parts furnished with each backboard.

Four machine screws and four washers for mounting 82A, 82B and 82D Backboards.

Four machine screws, eight washers and four nuts for mounting 82C Backboard.

3. FRAME TYPE TERMINAL

K606 Cable Terminal Section

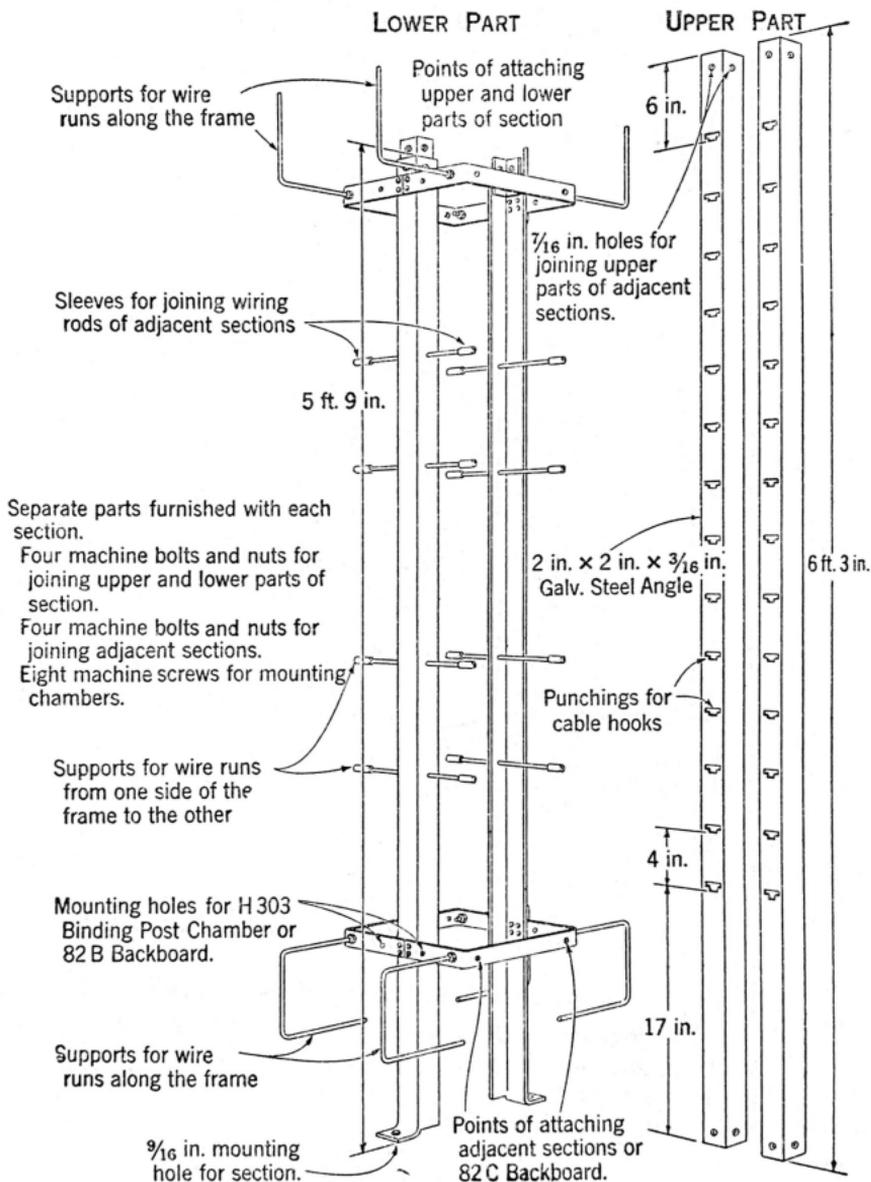
3.01 The K606 Cable Terminal Section is a fabricated hot-dip galvanized steel framework consisting of a lower part for mounting either two H303 Binding Post Chambers or two 82B Backboards or one chamber and one backboard mounted back to back and an upper part for supporting the cables. Supports are provided at the top and the bottom of the lower part for wire runs along the frame and longitudinal rods serve to support the wires running from one side of the frame to the other. Drilled holes are provided at the top of the section to permit of securing the upper parts of adjacent sections with steel members obtained locally to meet the requirements of the particular installation.

3.02 The K606 section can be assembled in any desired number to form a frame type cross-connecting cable terminal adapted to the larger installations where a special room is provided for the cable and wire terminations.

3.03 The overall dimensions and an illustration of the K606 Cable Terminal Section follow:

Height	12 ft. 0 in.
Width	1 ft. 0 in.
Depth	2 ft. 2-3/8 in.

K606 CABLE TERMINAL SECTION



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