

40-TYPE CABINET

DESCRIPTION AND PLACING

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(c) Filling the base of pedestal 40-type cabinets with a minimum of 6 inches of pea gravel.

Revision arrows are used to emphasize the more significant changes.

1.03 The following sections cover the use of 40-type cabinets.

SECTION	TITLE
631-600-229	40-Type Cabinet—Installation of 76-Type Terminal Blocks
631-600-231	40-Type Cabinet—Installation of 108-Type Terminal Block
462-250-106	40-Type Cabinet—Wiring
626-500-125	40-Type Cabinet—Hardware and Materials

1. GENERAL

1.01 This section covers the description and placing of the 40-type cabinet.

1.02 This section is reissued to include information on:

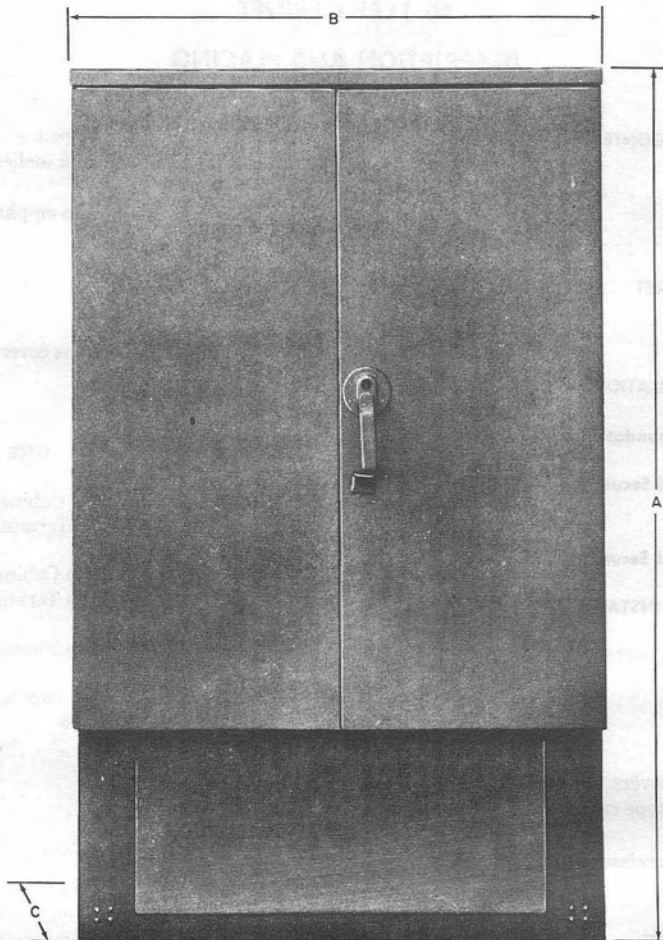
- (a) The 40F cabinet
- (b) The availability of 40A, E, and F cabinets equipped with 76-type terminal blocks with encapsulated wiring harness

2. DESCRIPTION

2.01 The 40-type cabinets (Fig. 1 and 2) are metal housings for enclosing feeder distribution interfaces in both buried and aerial plant. A 40-type encapsulated unit is available with the wiring harness completely sealed with encapsulation (Fig. 3) to prevent insect infestation in certain areas. This unit is stubbed with waterproof cables.

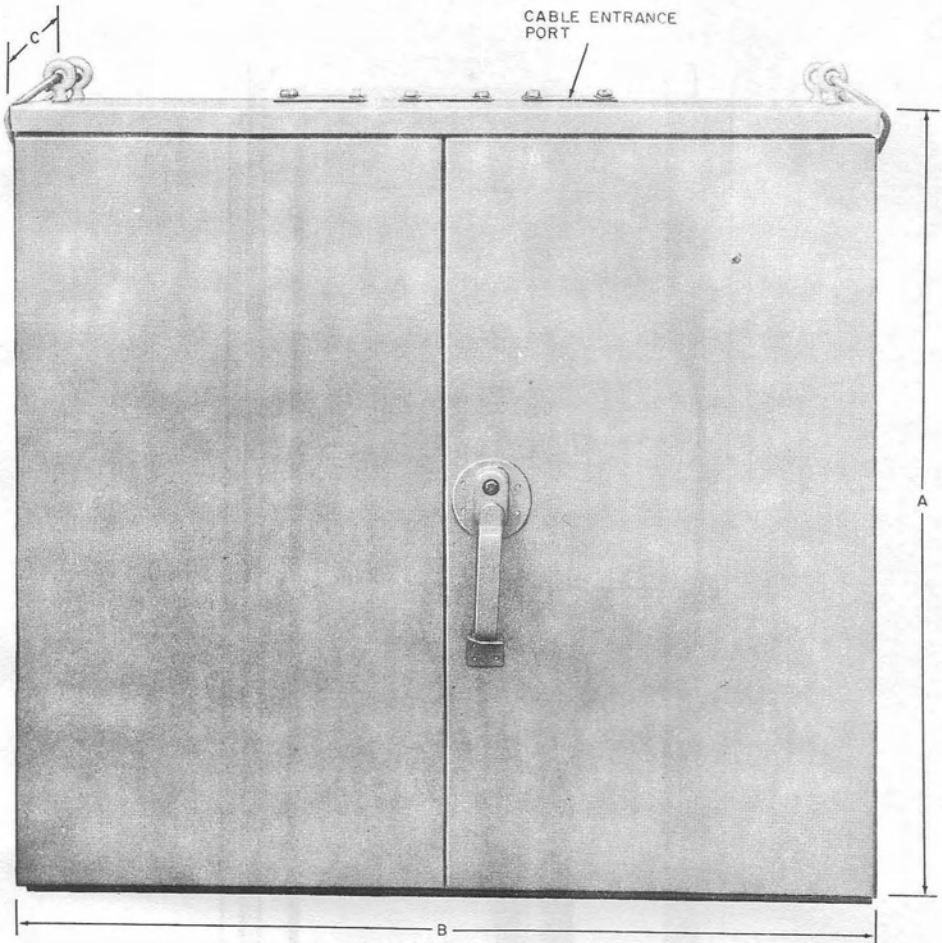
NOTICE

Not for use or disclosure outside the
Bell System except under written agreement



CABINET	HEIGHT A (INCHES)	WIDTH B (INCHES)	DEPTH C (INCHES)
40 A	43	15	12
40 B	43	24	12
40 C	43	33	12
40 D	54	33	12
40 E	54	40	12
40 F	68	40	12

Fig. 1—40-Type Cabinet Pedestal Mounting



CABINET	HEIGHT A (INCHES)	WIDTH B (INCHES)	DEPTH C (INCHES)
40 A	30	15	12
40 B	30	24	12
40 C	30	33	12
40 D	41	33	12

Fig. 2—40-Type Cabinet Pole or Wall Mounting

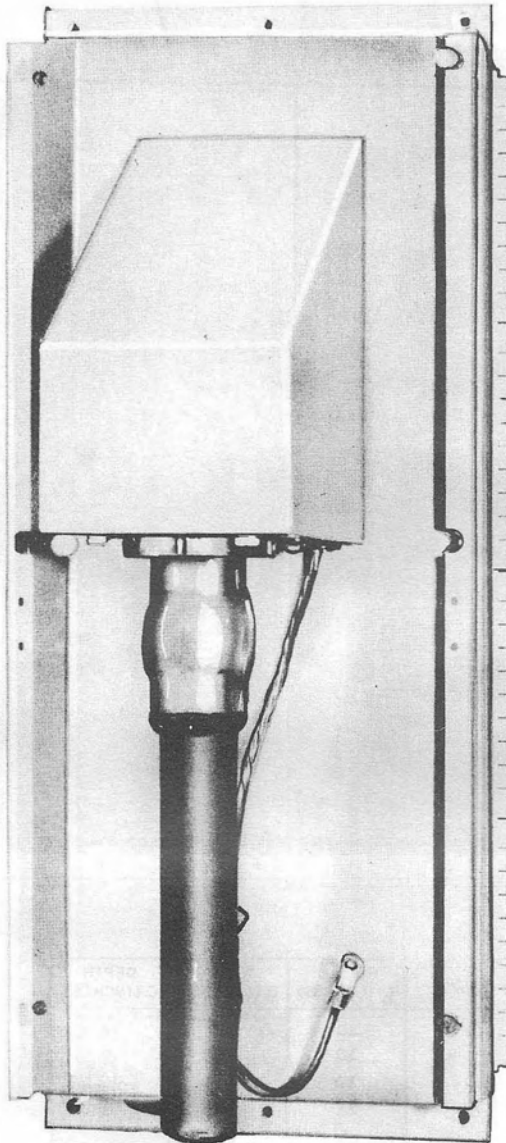


Fig. 3—Typical 76-Type Terminal Block With Encapsulated Wiring Harness

2.02 The cabinets for buried plant are equipped with a skirt assembly for pedestal mounting. Cabinets for aerial plant are equipped with mounting brackets and cable entrance ports in the top and bottom plates for pole or wall mounting.

2.03 Table A lists the cabinet, and *maximum* capacity using various termination devices.

TABLE A

40-TYPE CABINET

CABINET	MAXIMUM CAPACITY (PAIRS)	
	108-TYPE CONNECTING BLOCK	76-TYPE BINDING POST
40A	600	400
40B	1200	
40C	1800	
40D	2700	
40E	—	1800
40F	—	2700

3. LOCATING CABINET

3.01 Locate cabinet in accordance with the detail plans, complying with physical consideration outlined in paragraphs 3.02 and 4.08 insofar as practical. If the specified location does not seem feasible from a placing standpoint or is considered questionable from a maintenance standpoint, it should be referred to the engineer for review.

3.02 Considerations for locating the cabinet are as follows:

- Safety to the employee and public
- Vulnerability to damage by vehicular traffic
- Accessibility (no less than 36-inches from any obstruction, fence, hedge row, etc)

(d) Permanency of location

(e) Public relations (acceptable to property owner and public).

4. INSTALLATION

PEDESTAL INSTALLATIONS

A. Concrete Foundation

Danger: Exercise care when handling precast foundation to avoid personal injury or foundation damage.

4.01 Obtain a concrete foundation per 38Y drawing as listed in Table B for 40-type cabinet to be used. The concrete foundation may be either precast or poured in place.

Note: Cables or ducts should be in place and soil compacted before concrete foundation is laid or poured in place.

TABLE B

CONCRETE FOUNDATIONS FOR
40-TYPE CABINET

CONCRETE FOUNDATION DRAWING NUMBER	USED WITH 40-TYPE CABINET SIZE
38-Y-4056-1	C and D
38-Y-4056-2	B
38-Y-4056-3	A
38-Y-4056-4	E
38-Y-4056-5	F

Note: Information on obtaining ED-01 drawings is given in Section 620-050-005.

4.02 Level the area for the concrete foundation. The foundation should be level within 1 inch, and the top should be approximately 2 inches above the surrounding grade.

4.03 Position the foundation as shown in Fig. 4.

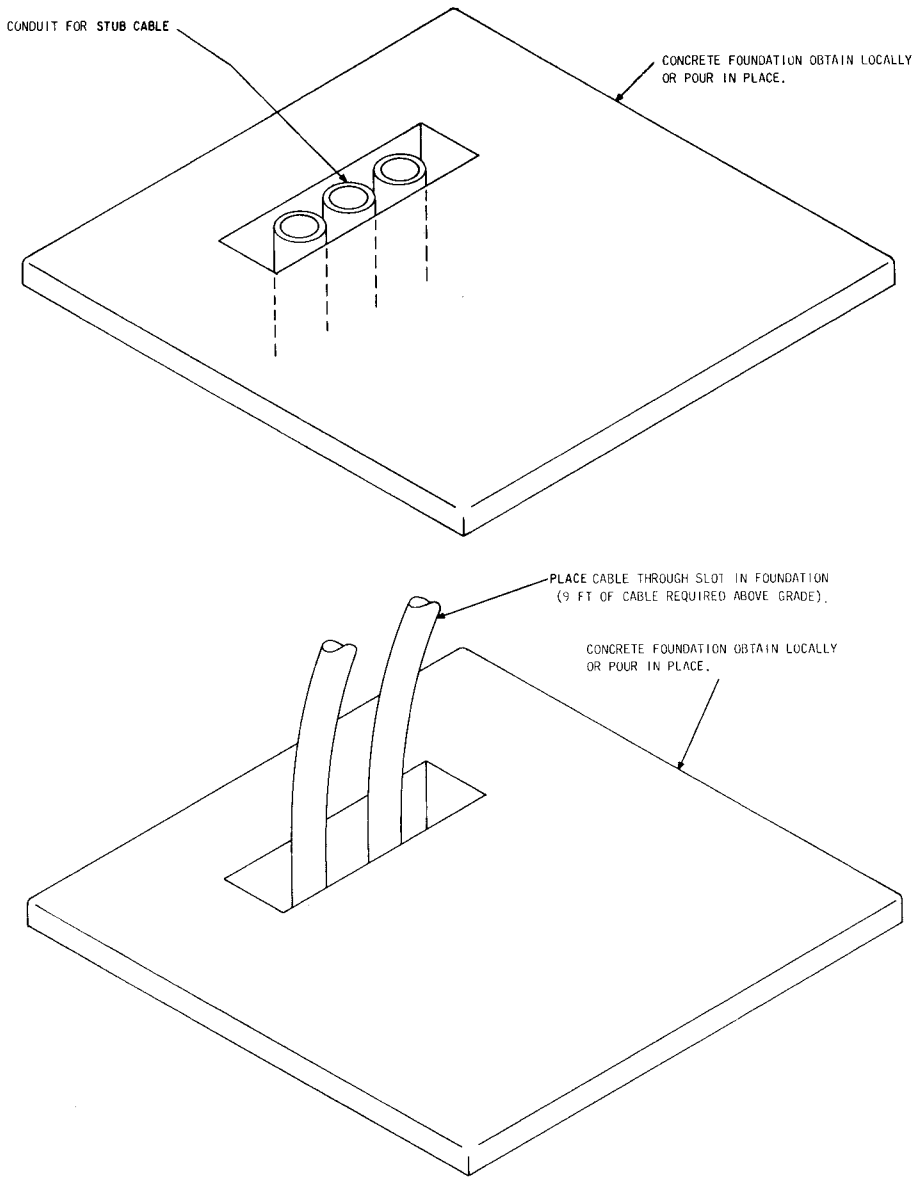


Fig. 4 — Placed Concrete Foundation

B. Placing and Securing 40A, B, C, D, or E Cabinet

4.04 Secure a 40A, B, C, D, or E cabinet to concrete foundation as shown in Fig. 5. The required bolts and washers are supplied with the cabinet.

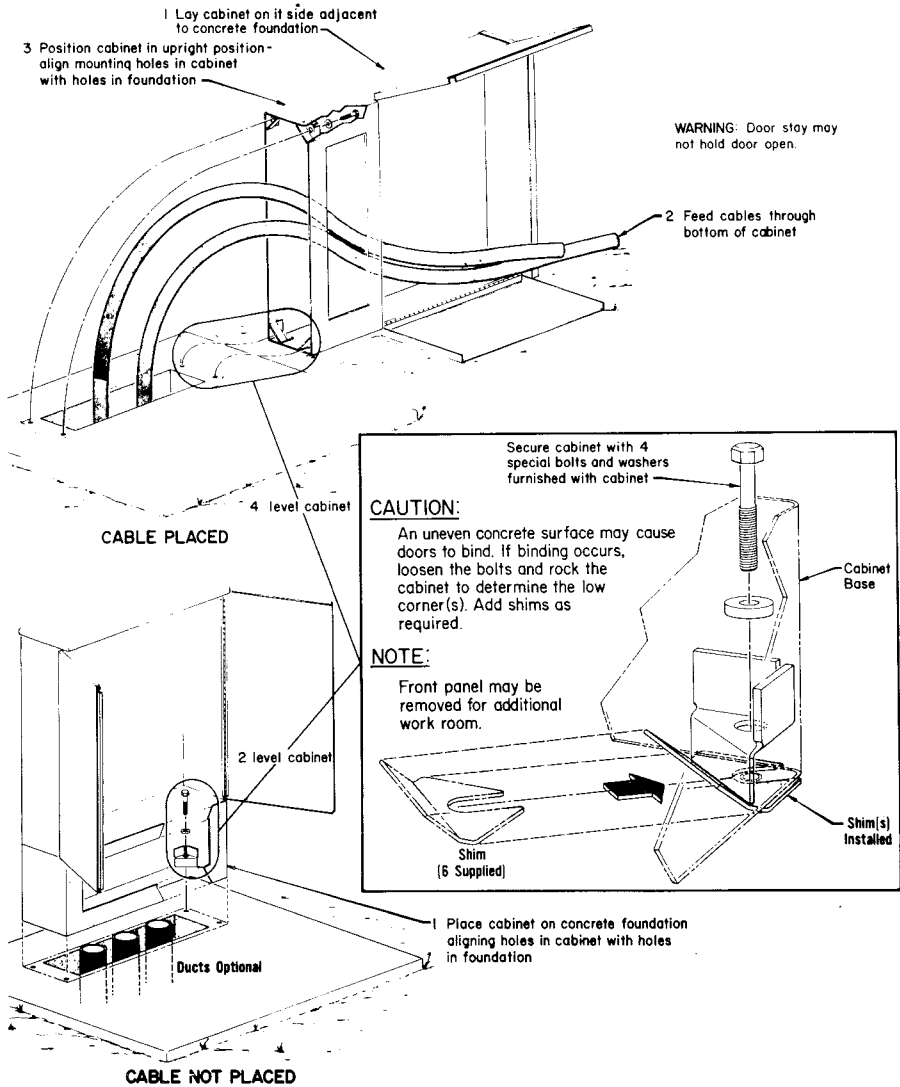


Fig. 5—40A, B, C, D, and E Cabinets Installation on Pedestal

4.05 Figures 6 and 7 illustrate procedures for placing 40-type cabinets on concrete foundation at locations where cabinets are to be equipped with prewired connecting devices.

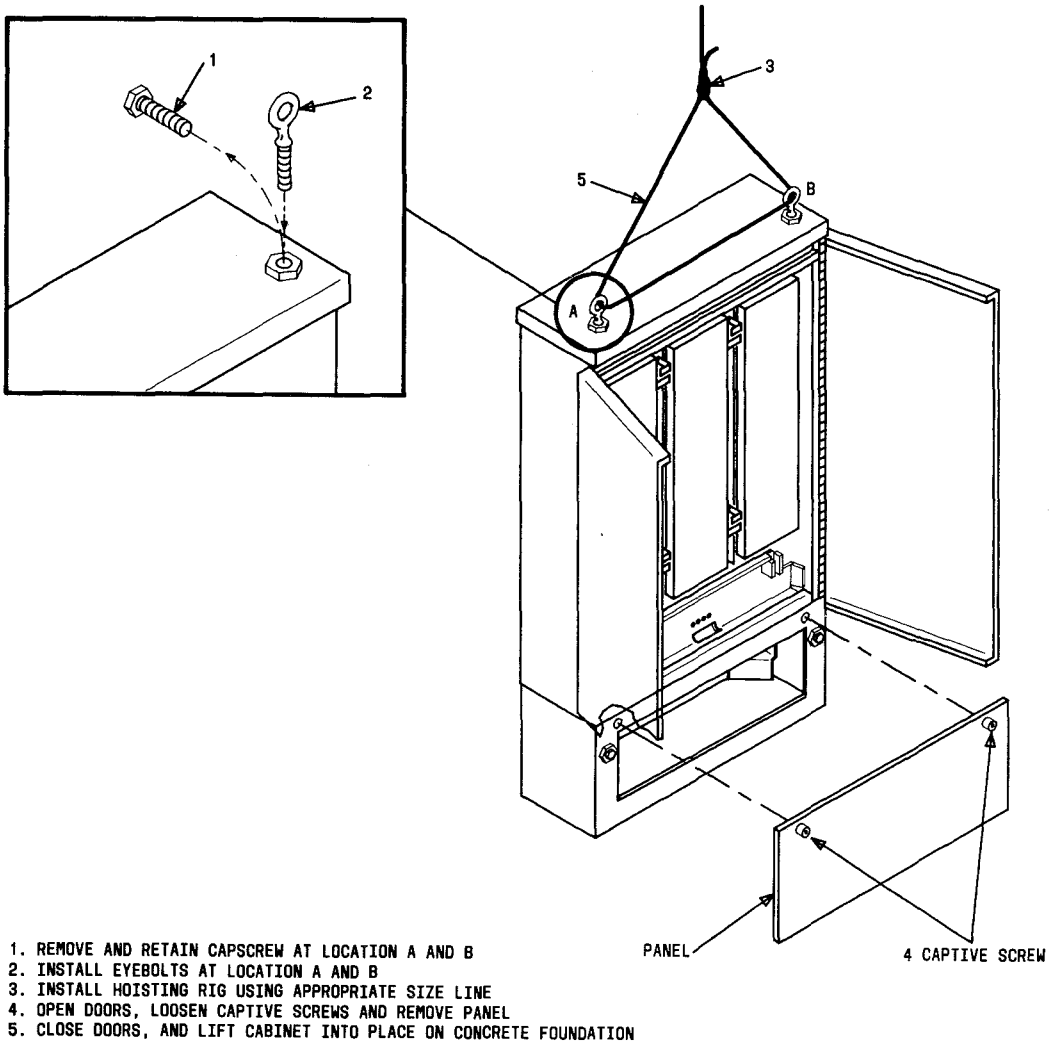


Fig. 6—Lifting 40-Type Cabinet for Placing on Foundation

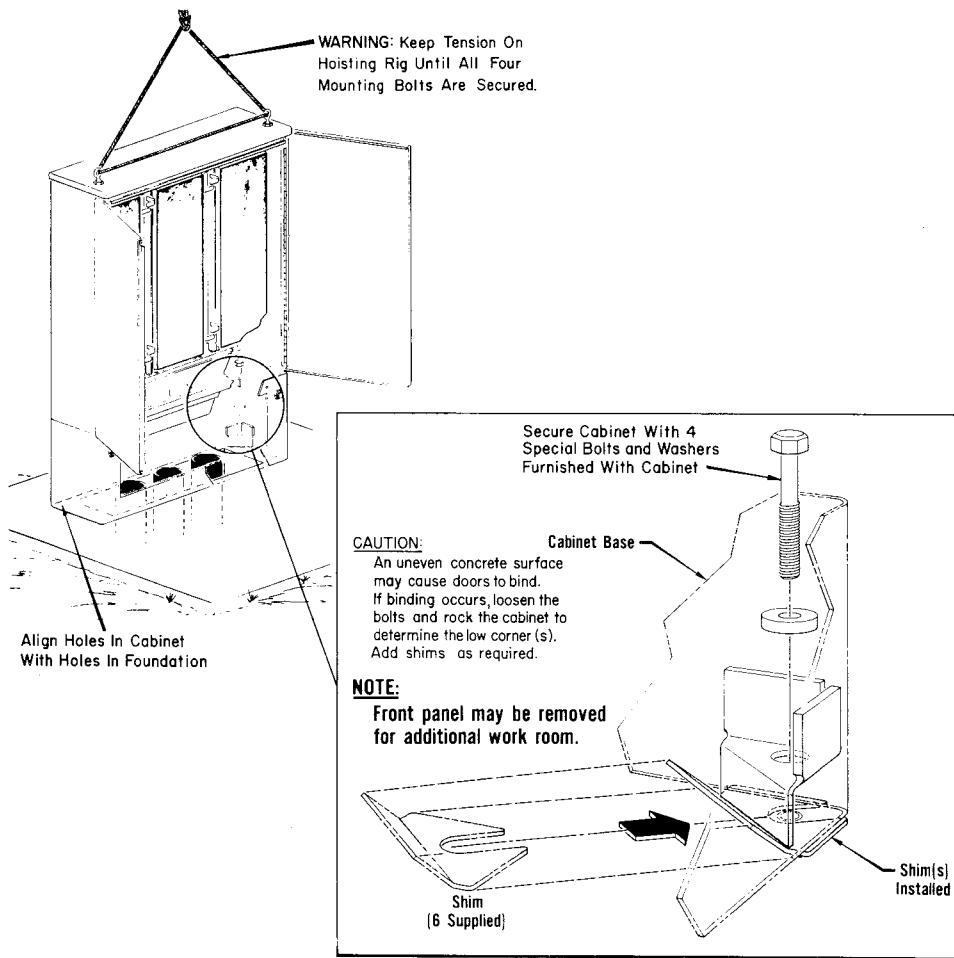
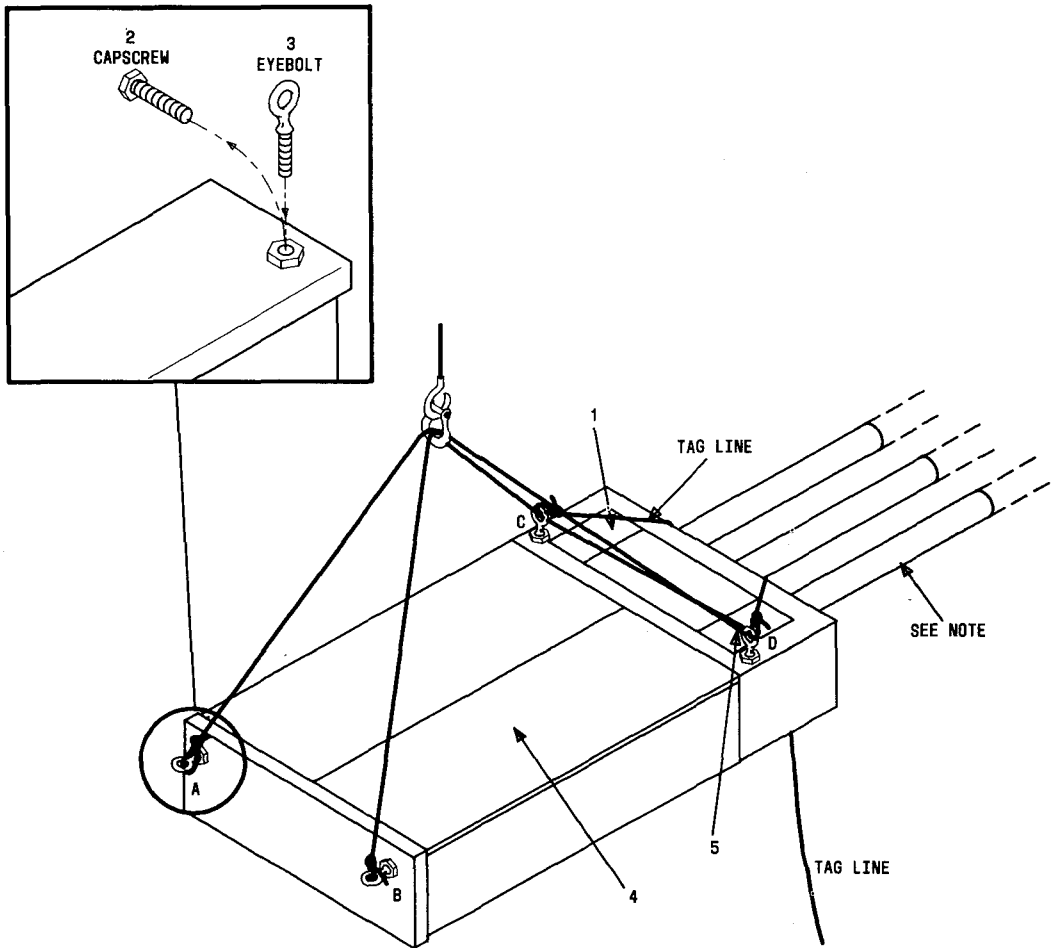


Fig. 7—Securing 40-Type Cabinet to Foundation

4.06 Figures 8, 9, and 10 illustrate procedures for placing 40-type cabinets on concrete foundations at locations where cabinet is equipped with stub cables.



1. OPEN DOOR AND REMOVE LOWER FRONT PANEL
2. REMOVE AND RETAIN FOUR CAPSCREWS AT LOCATIONS A, B, C AND D
3. INSTALL AND SECURE EYEBOLTS AT LOCATIONS A, B, C AND D
4. CLOSE AND SECURE DOORS
5. INSTALL HOISTING RIG AND TAG LINE

NOTE:
 USING THIS TYPE OF HOISTING RIG AND TAG LINE WILL
 PREVENT THE CABLE FROM KINKING

Fig. 8—Hoisting 40-Type Cabinet

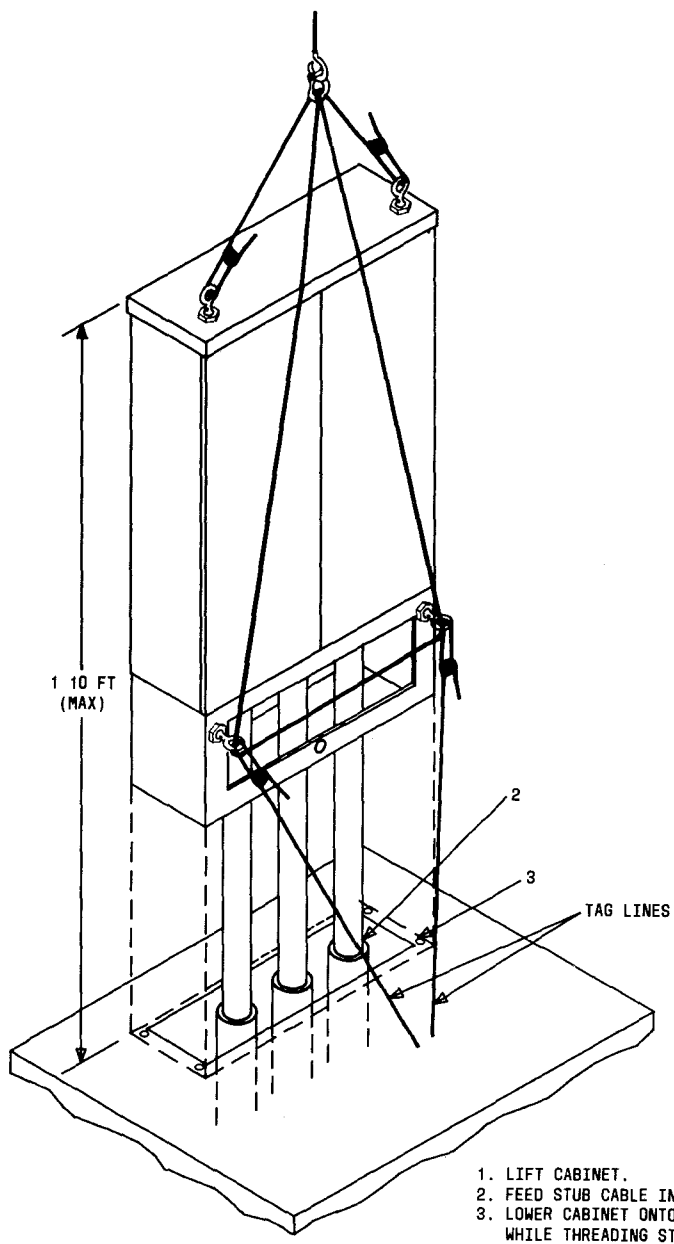
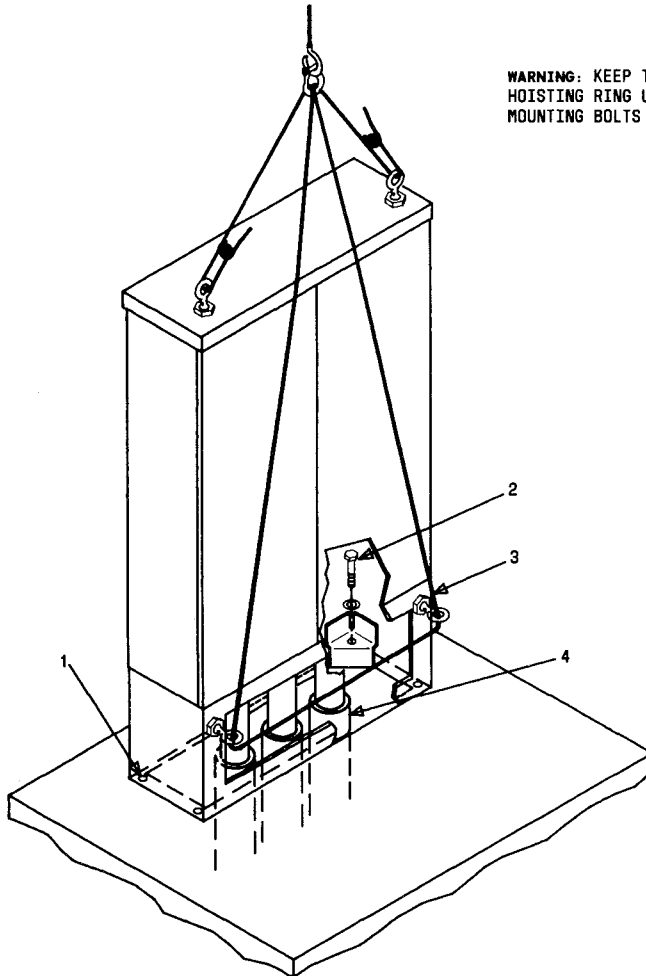


Fig. 9—Lowering 40-Type Cabinet



WARNING: KEEP TENSION ON HOISTING RING UNTIL ALL FOUR MOUNTING BOLTS ARE SECURED.

1. ALIGN HOLES IN CABINET WITH HOLES IN CONCRETE FOUNDATION.
2. BOLT CABINET TO PAD (SEE SHIM INSTRUCTIONS ON FIG. 7).
3. REMOVE HOISTING RING, AND REPLACE EYEBOLTS WITH CAPSCREWS.
4. PLUG ALL DUCTS WITH AT-7774 B DUCT SEALER OR CONDUIT PLUG TO REDUCE CONDENSATION.

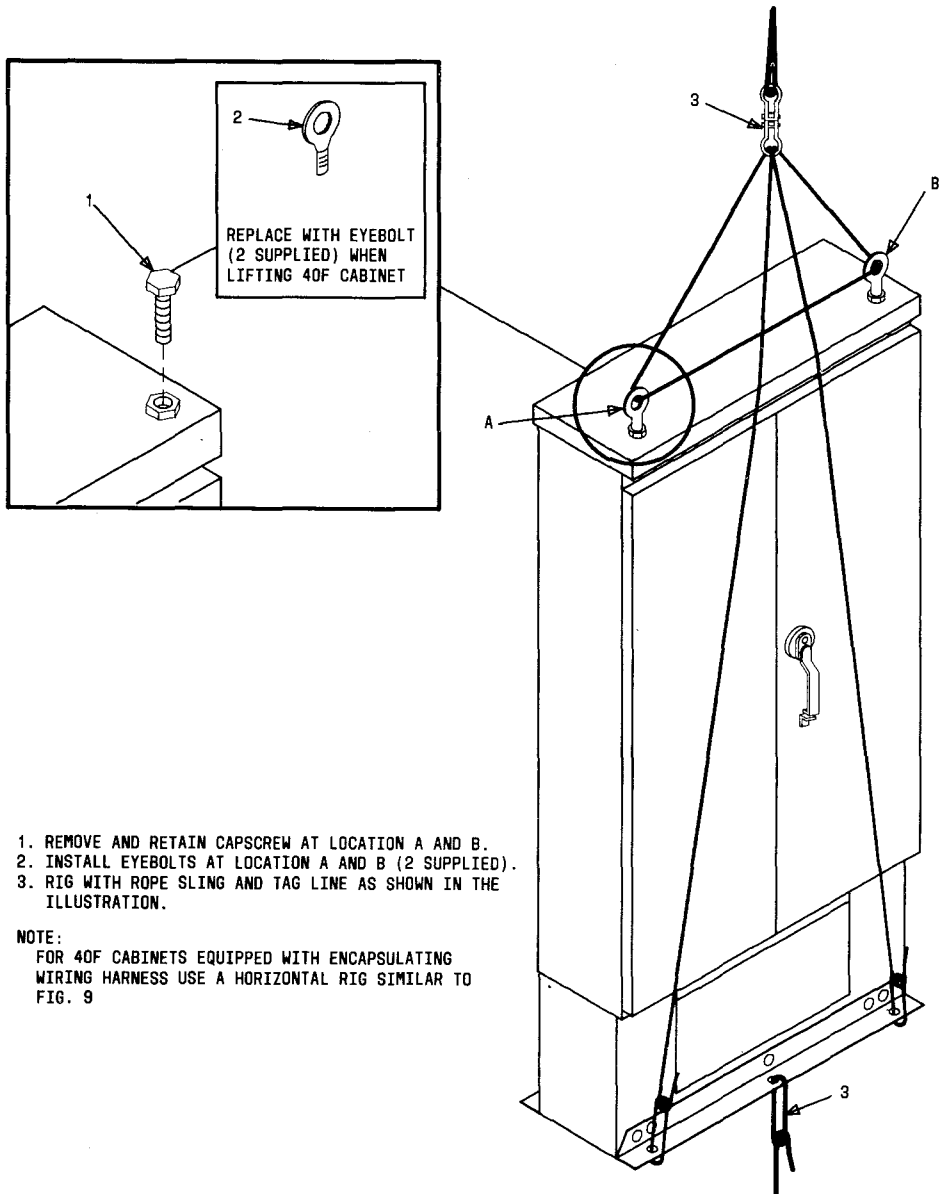
Fig. 10—Securing 40-Type Cabinet to Foundation

C. **Placing and Securing 40F Cabinet**

4.07 **Figures 11 through 18 show the procedures for lifting, placing, and securing 40F cabinets on concrete slabs.**



After a 40-type pedestal cabinet has been placed, the sheath removed, and the ducts plugged, fill the cabinet base with a minimum of 6 inches of pea gravel.



1. REMOVE AND RETAIN CAPSCREW AT LOCATION A AND B.
2. INSTALL EYEBOLTS AT LOCATION A AND B (2 SUPPLIED).
3. RIG WITH ROPE SLING AND TAG LINE AS SHOWN IN THE ILLUSTRATION.

NOTE:

FOR 40F CABINETS EQUIPPED WITH ENCAPSULATING WIRING HARNESS USE A HORIZONTAL RIG SIMILAR TO FIG. 9

Fig. 11—Lifting 40F Cabinet For Placing on Foundation

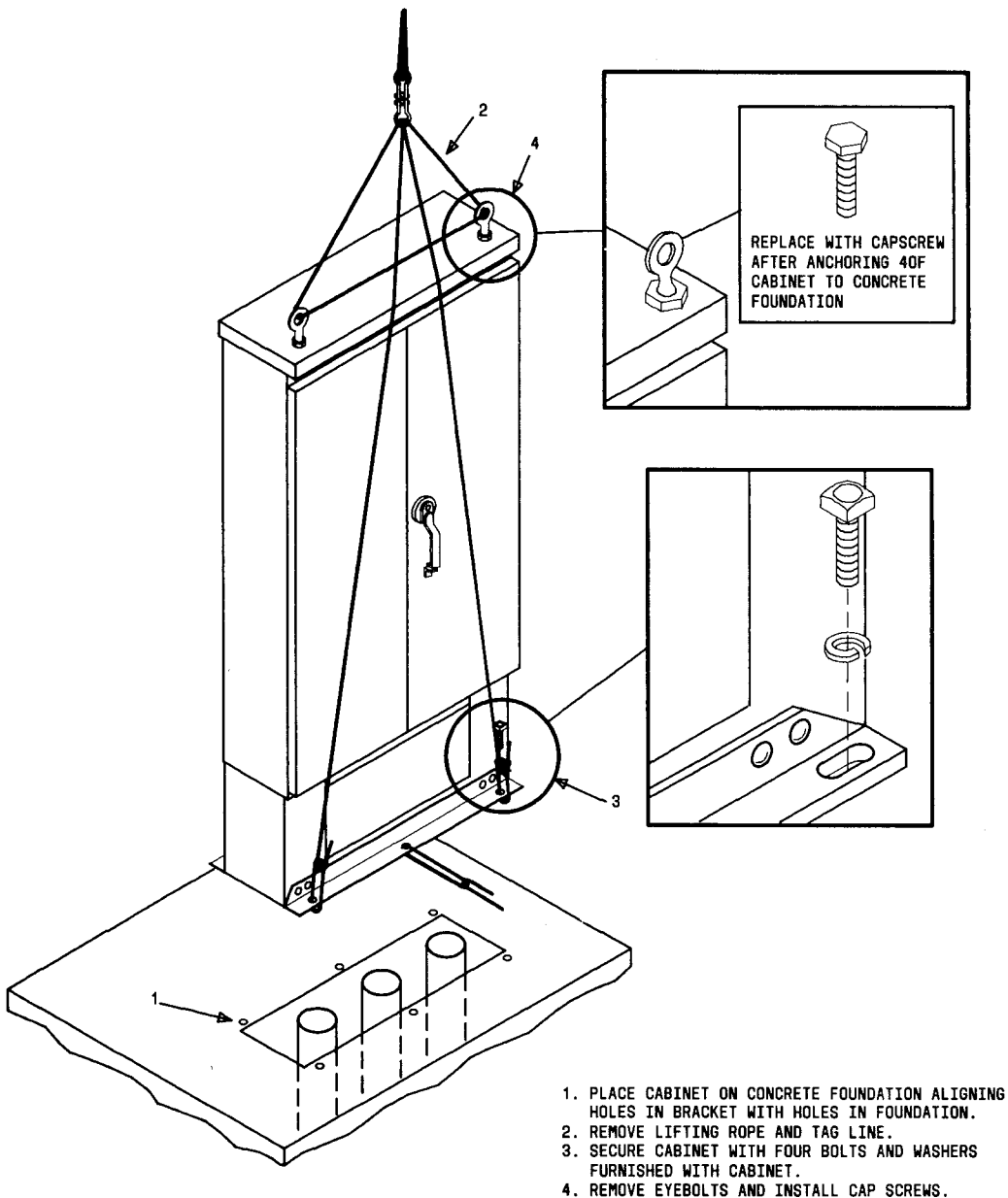


Fig. 12—Anchoring 40F Cabinet

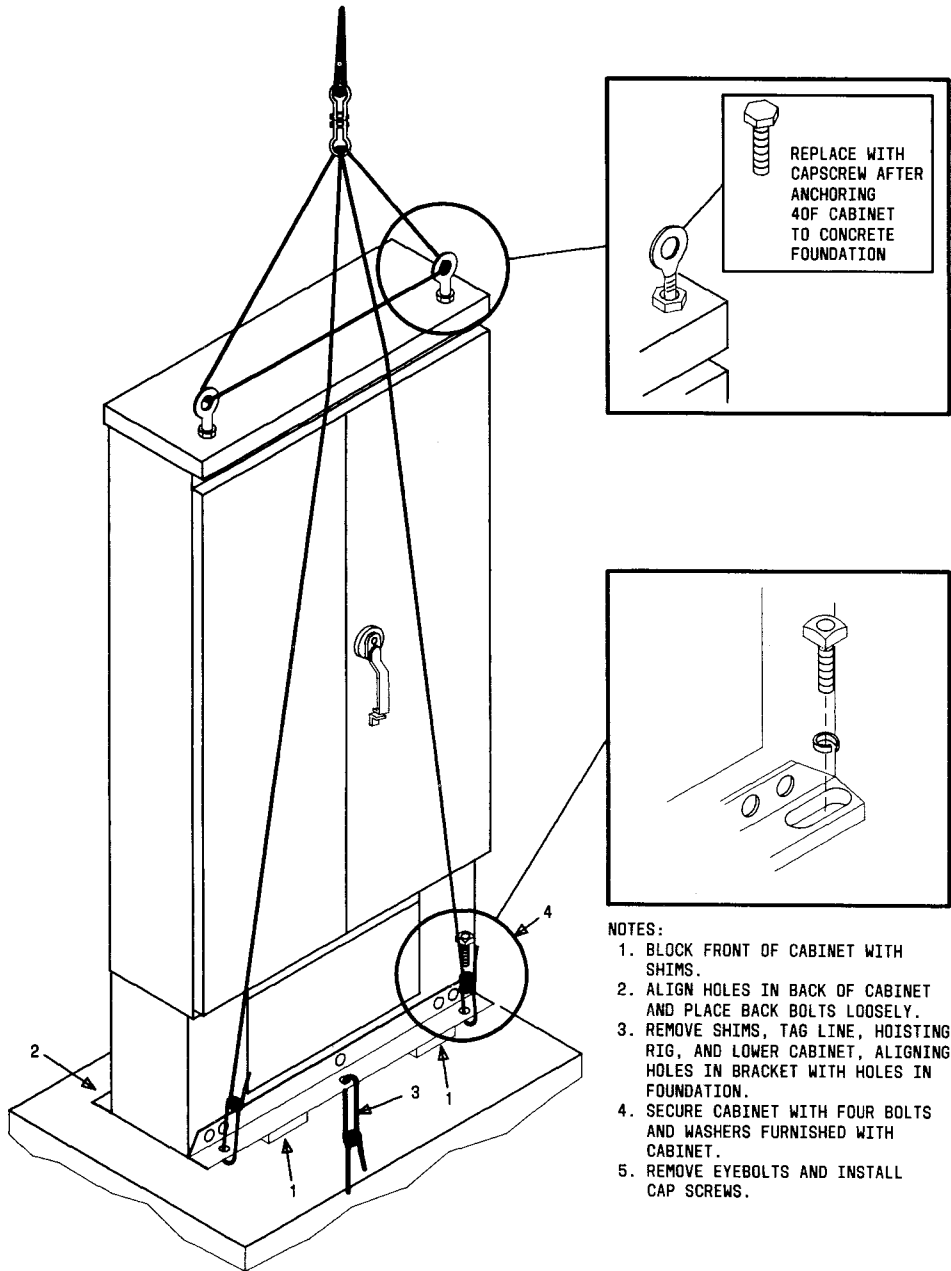
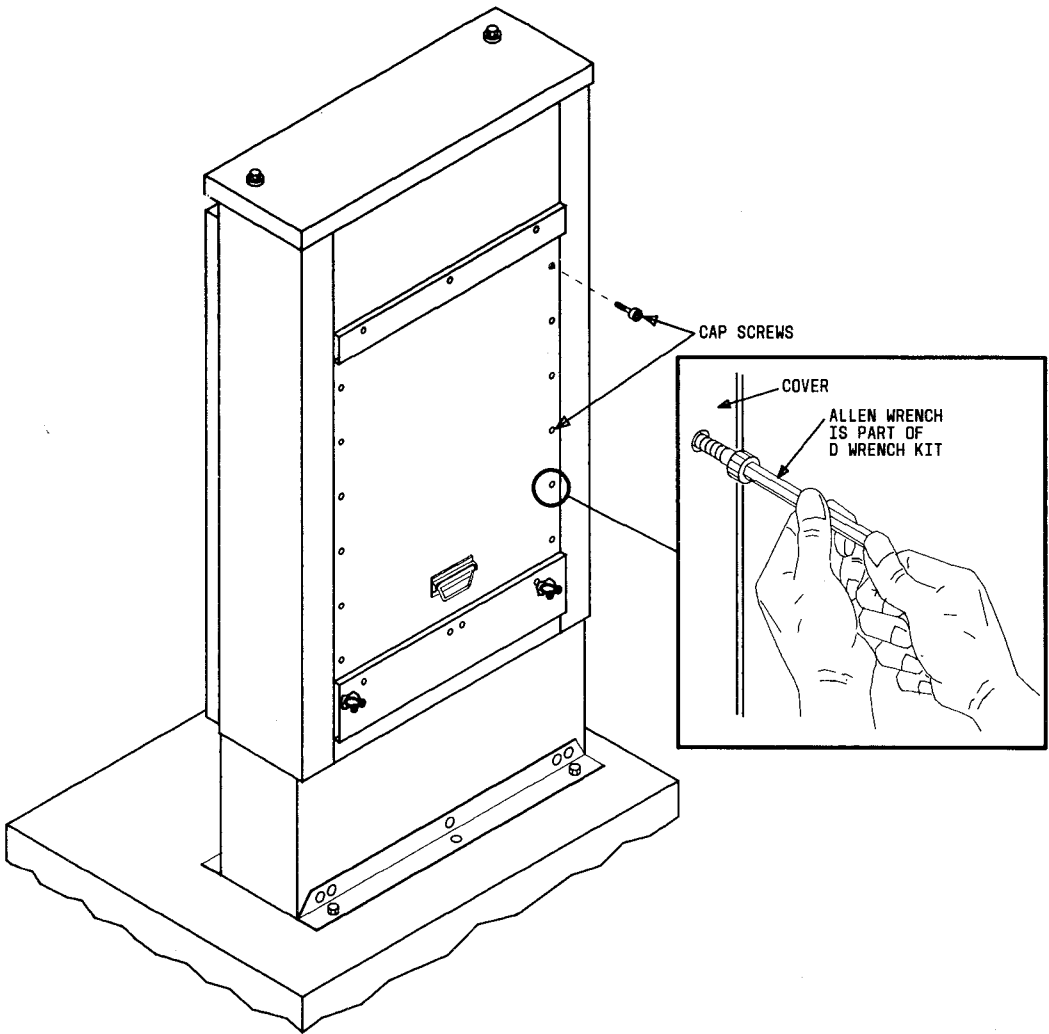
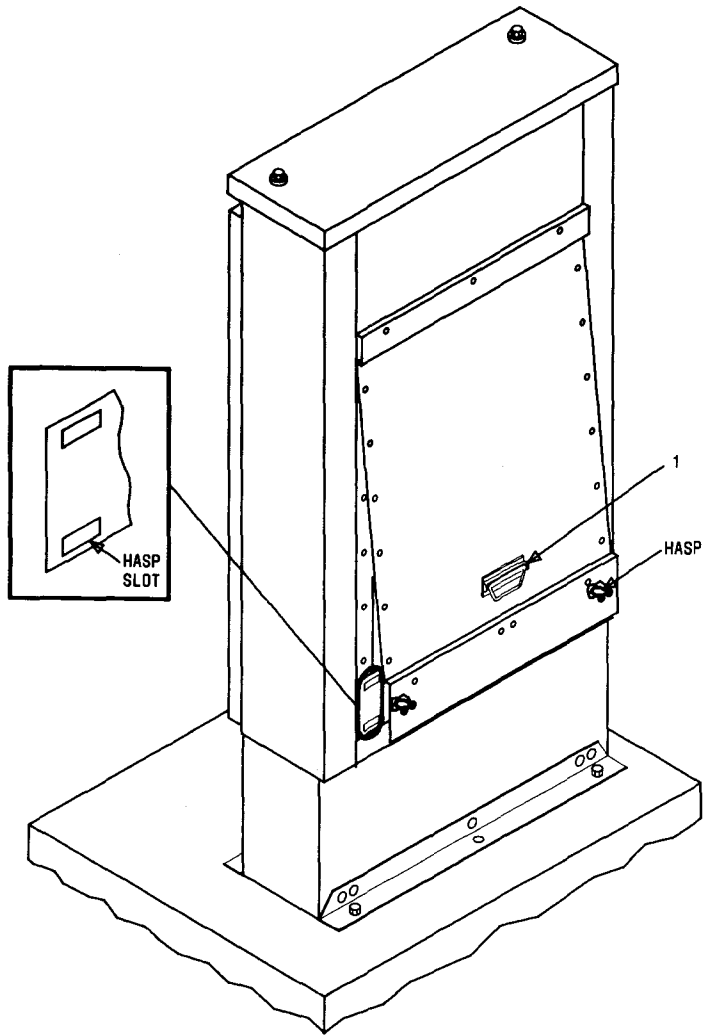


Fig. 13—Anchoring 40F Cabinet Equipped With Wiring Harness



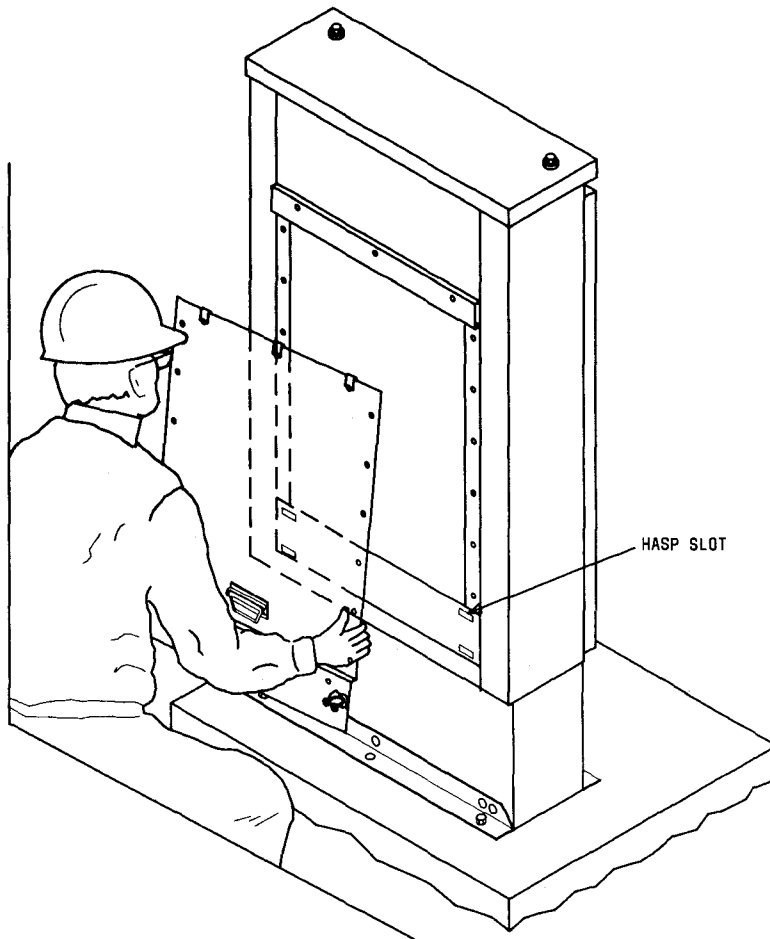
1. REMOVE CAP SCREWS AND WASHERS (SAVE).

Fig. 14—Removing Cap Screws on 40F Cabinet



1. GRASP HANDLE, LIFT UP, AND EASE BOTTOM OF COVER TO REST ON HASP SLOTS.

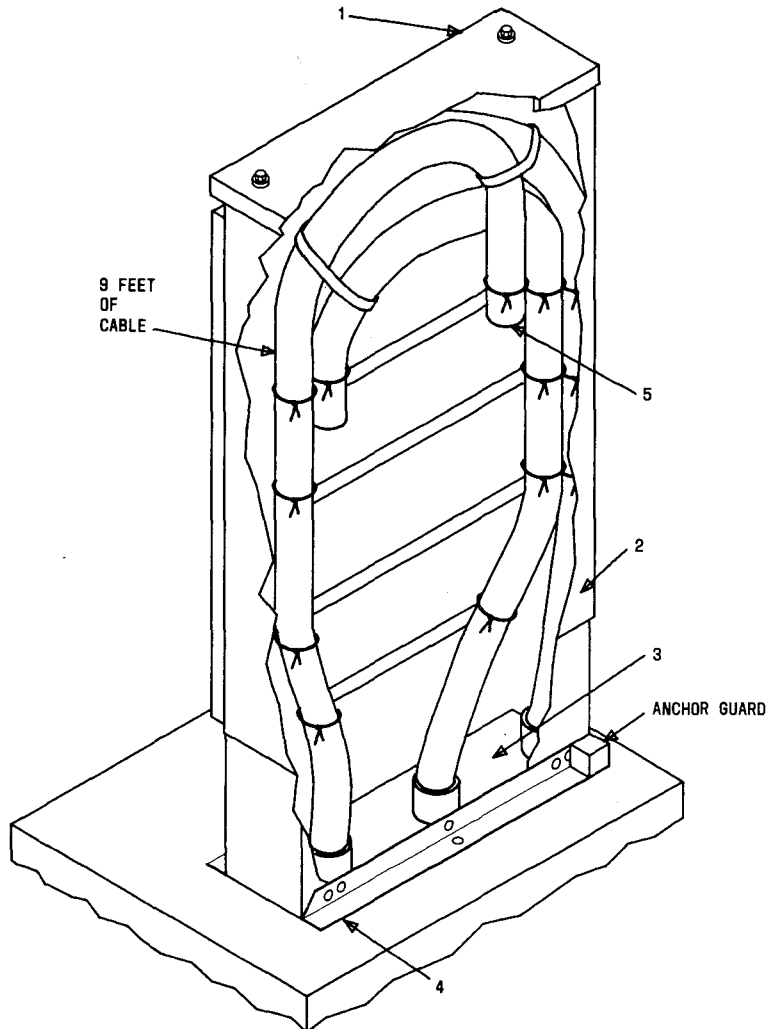
Fig. 15—Opening Cover of 40F Cabinet



1. GRASP COVER FIRMLY AND REMOVE.

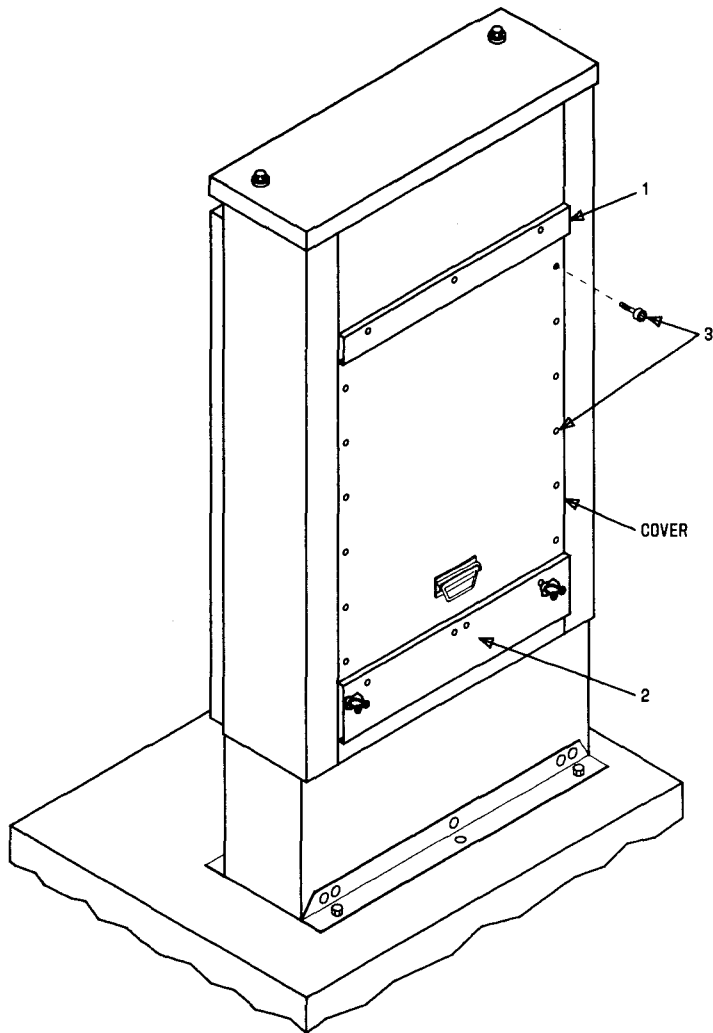
NOTE:
STORE FREE COVER IN A SAFE MANNER.

Fig. 16—Removing Cover From 40F Cabinet



1. WHEN INSTALLING CABINET OVER INPLACE BURIED CABLES, LIFT CABINET INTO POSITION ALONG SIDE CABLES.
2. REMOVE SPLICE CHAMBER COVER.
3. LIFT CABINET AND FEED CABLES OUT THROUGH CHAMBER OPENING AS CABINET IS LOWERED ONTO FOUNDATION.
4. SECURE ANCHOR BOLTS. AN ANCHOR GUARD KIT (COM CODE 842706228) MAY BE ORDERED SEPARATELY.
5. FORM CABLE INTO COILS FOR STORAGE INSIDE CABINET. CABLE LENGTH IS 9 FEET FROM TOP SURFACE OF PAD TO END OF COILS.

Fig. 17—Storing Cable Coils in Splice Chamber in 40F Cabinet



1. LIFT COVER INTO POSITION UNDER OVERHANG AT TOP OF CHAMBER OPENING.
2. POSITION COVER SO HASPS ARE ALIGNED IN UPPER SLOTS AND PUSH BOTTOM OF COVER IN TOWARD CABINET. (THIS WILL ALSO ALIGN ALL CAP SCREWS.)
3. REPLACE ALL CAP SCREWS AND WASHERS.

Fig. 18—Repeating Cover on 40F Cabinet

POLE-MOUNTED INSTALLATIONS

4.08 The 40A, B, C, and D cabinets may be placed on poles either at aerial cable level or ground working level as described in (a) and (b).

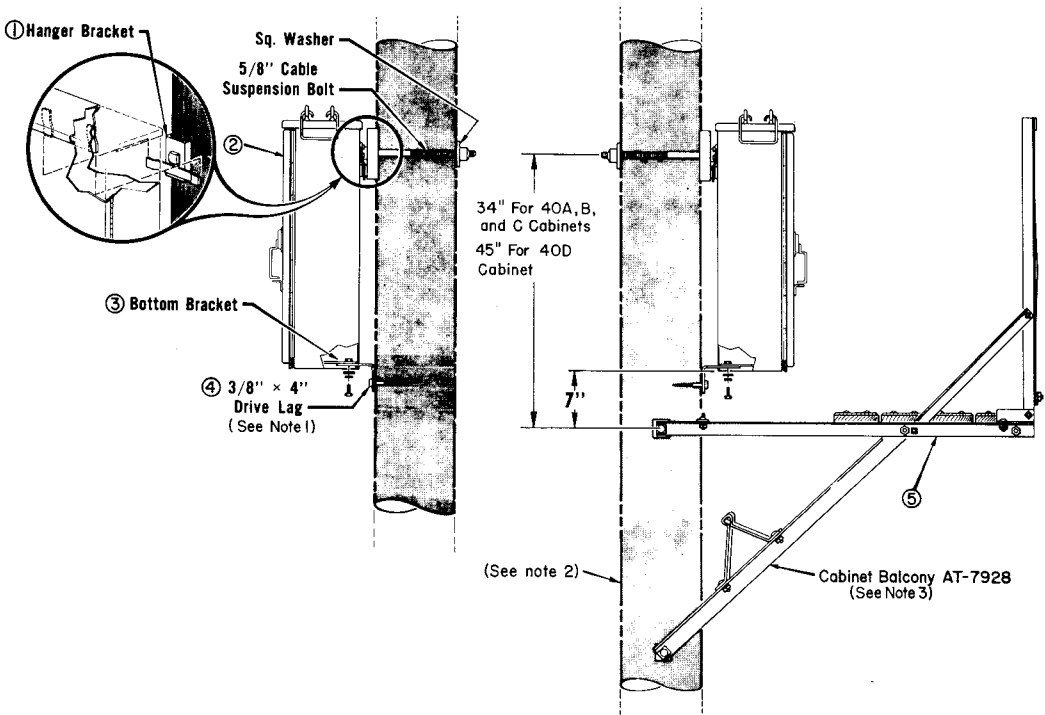
(a) In high-level construction, ***the bottom of the cabinet*** should be not less than 10 feet above sidewalks. ***The closure should not overhang highways or driveways.***

(b) In low-level construction, locate the cabinet so that the top of the closure is 72 inches above ground level.

4.09 Install cabinet on pole as shown in Fig. 19. Raise the cabinet by means of block and tackle or a pole derrick. Guide the cabinet during hoisting by means of a tagline.

WALL-MOUNTED INSTALLATIONS

4.10 Where the cabinet is to be placed on a masonry wall, attach mounting bracket with a 1/2-inch machine bolt anchor and a 4-inch galvanized machine bolt or a 1/2 × 3-1/2 hammer drive anchor. Place a 9/16 × 1-3/8 inch round washer under the head of the machine bolt or under the collar of the hammer drive anchor.



- ① Install hanger bracket, **T-BAR DOWN**. Level before tightening.
- ② Hang cabinet on bracket.
- ③ Install bottom bracket.
- ④ Level cabinet before tightening.
- ⑤ Install balcony as outlined in BSPs referenced in NOTE.

NOTES:

- 1. For wall mounting, substitute anchor bolts for cable suspension bolt and drive lag.
- 2. Refer to BSP 621-210-012 to step pole.
- 3. Refer to BSPs 631-300-212 and 631-300-213 to install balcony (not required for low level installation).

IMPORTANT SAFETY TIP:

- For high level installation, all cable termination activities with-in the cabinet should be completed from an auxiliary support prior to installation of the balcony.

Fig. 19—Securing 40A, B, C, or D Cabinet to Pole or Wall