

CAD CABLE CLOSURES

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1. GENERAL

1.01 This section covers the description and installation of the CAD type cable closure. These closures will replace the SCA, LD10 and other buried cable closures.

1.02 Whenever this section is reissued, the reason(s) for reissue will be provided in this paragraph.

1.03 The CAD type closure is used to:

- (a) Provide **fixed count** facilities for terminating aerial, buried and station service wires,
- (b) Enclose above ground straight and branch splices in PIC cable, and
- (c) House miscellaneous equipment.

1.04 The closure may be self-supported or it may be mounted to the base of a pole or a building wall. Provision has been made for top cable entrance which facilitates aerial-buried junctions and aerial terminal stub splicing.

1.05 There are three versions of the CAD closure (see Table A). The closures are similar in appearance except for size. Each closure may be used for protected and non-protected terminations or for splicing.

TABLE A

CLOSURE	WIDTH	HEIGHT
CAD-4	4"	50"
CAD-8	8"	50"
CAD-12	12"	50"

2. DESCRIPTION

2.01 The CAD-4, 8, and 12 cable closures (Figure 1) are constructed of 13 gauge painted steel parts consisting of removable upper and lower front covers, secured hinged backplate, plastic inserts for cable and splice support and a plastic shield for protecting the cable conductors.

2.02 The CAD-12 cable closure (Figure 2) is identical in design to the CAD-4 and 8 with the following exceptions:

- (a) The entire top section, front and rear, may be removed from the base section to facilitate complete access to the cables for splicing.
- (b) The hinged backplate may be removed when the closure is to be used to house a splice case.
- (c) The front of the bottom section extends to the bottom of the closure to facilitate pad mounting.

2.03 The splicing chamber is located behind the hinged backboard. **Access to the splicing chamber is restricted to cable splicers and cable repairmen. The hinged backboard will be left in place at all splice locations, except as noted in 2.02.**

2.04 The CAD closures may be used for loading. Small 701 type load coil cases may be placed in the lower section of the closure. (Figure 3) Large load coil cases may be buried adjacent to the closure and the stub spliced in the splicing chamber.

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2.05 32 inch support stakes are available to provide additional stability for the CAD-4 and 8. Support stakes must be used and are furnished with each CAD-12. (Figure 4)

2.06 The cables are secured to the base section by cable ties and plastic inserts. The splice bundle is also secured to the closure by cable ties and plastic inserts in the rear of the top section. (Figure 5)

2.07 The component parts furnished with the three closures are listed in Table B and illustrated in Figures 6 and 7.

TABLE B

PART	CAD-4	CAD-8	CAD-12
Top Front Cover	1	1	1
Bottom Front Cover	1	1	1
Back Section (50")	1	1	1
Background & Grounding Bracket	1	1	1
Plastic Shield	1	1	1
Fargo Connector	1	1	1
Top Back Section			1
Bottom Back Section			1
Support Stakes, 32" with Bolts			2
Tie, Nylon, Cable, 6"	1	1	1
Tie, Nylon, Cable, 13"	5		
Tie, Nylon, Cable, 21"		7	10
Warning Decal	1	1	1
Plastic Wire Guide	6	6	6

2.08 Certain items associated with the CAD closures are not furnished and must be ordered separately.

- (a) Bond Clamp — Used to mechanically establish electrical connection to cable sheath. (Fig-

ure 8)

- (b) Grommet — Placed in knockout in closure cap to permit cable to enter top of closure. The TG-4 is to be used on the CAD-4 and the TG-8/12 for the CAD 8 and 12. (Figure 9)

- (c) Pad Support Brackets — "L" shaped steel brackets used to support the CAD-12 when mounted on concrete pad. These brackets will be non-stock but can be ordered through Ameritech Services Inc. as Bracket Mounting Angle Base PA12.

3. LOCATING AND PLACING CLOSURE

3.01 Locate the closure as shown on the detailed construction drawings.

3.02 The CAD closure may be self-supported, pole or wall mounted. Support stakes are optional with the CAD-4 and 8 to afford additional rigidity. Pad support brackets or support stakes are necessary with the CAD-12 because of its size.

3.03 For self-supported installations, locate the CAD closure along the trench line. Remove about one square foot of earth about 13 inches deep at the desired location. Carefully place the closure over the **30 inch cable loop** or ends so that the cable appears behind the backplate. The cable loop should be one inch below the bottom of the closure cap.

3.04 The entire front and rear panel of the bottom section can be removed on the CAD-12. (Figure 11) This is accomplished by removing the top front cover, swinging open the backplate and unscrewing two hex nuts from the inside and two from the outside; two on each side of the closure at the junction of the top and bottom halves of the closure. This will allow the bottom section, with support stakes, to be installed over the cables. The support stakes should be affixed to the bottom section before attempting to place the bottom section over the cables. (Figure 12) The stakes should be driven firmly into the undisturbed earth with a hammer. The top half of the closure can then be reinstalled. Care should be taken to adjust the depth so that cable loops do not butt top of closures.

3.05 The CAD-12 may be pad mounted by positioning closure over ducts and securing the pad support brackets (Figure 13) to the sides of the closure and to preset studs in the concrete slab. The CAD-4 and 8 **may not** be pad mounted.

3.06 Where practicable, the CAD closure should be placed at least 5 feet from power poles. Attachment to the pole constitutes not only a safety hazard, but a rental unit. The closure should be attached to the pole if it is to serve aerial drops or cable.

3.07 When it is required to bond the CAD closure to a power neutral ground, loosen the hex head to bolt on the "L" ground attachment of the ground bracket located on the right side of lower housing. Secure a No. 6 ground wire to the "L" attachment. (Figure 14) Extend the No. 6 ground wire through the bottom of the closure and attach the ground wire with an AT-7796X, Size 6 (Fargo) connector to the power neutral ground. See BSP 629-020-100 for bonding and grounding of other mounted closures (pole mounted, etc.).

3.08 The CAD closure is not waterproof. If a terminal must be located in an area subject to flooding, it should be placed with a stub pole and a pole mounted terminal attached to the pole well above the high water mark. The terminal stub should enter the top of the closure and spliced in a watertight flash tested splice case. The CAD-12 closure will be used for housing the splice case. (Figure 15)

3.09 To control rodent damage and to reduce moisture condensation, fill the base cover to a depth of 4 inches above groundline with crushed stone or clean gravel. When placing gravel, fill the service channel. At load points, do not fill the base with gravel, crushed stone, etc., until the 701 type load coil case or stubs from larger load coil cases are installed.

4. CABLE PLACING

4.01 Where cable is to be looped through the closure, provide a 30 inch loop **above ground level** at the closure location for all CAD closures. The top of the loop should be one inch **below** the bottom of the top cap. If the cable is not looped through the closure, allow 60 inches above ground level. The ends or loop should be stored behind the backplate. Cable ends, when not adequately protected with factory ends, should be capped as outlined in BSP 633-505-212.

4.02 The sheath opening on all bottom entrance cables is 4 inches above the top of the front bottom cover.

4.03 Hold the cable in place near the ground and mark the location of the sheath opening with paper tape. Remove the sheath, install **D bond clamp** and bond strap as described in Section 5. The cables should then be secured to back of the closure with cable ties as illustrated in Figure 16.

4.04 Remove the core wrap from the cable and apply binder group identification ties near the cable butt.

4.05 If the cable is not waterproof, it will be necessary to construct a moisture plug as described in Section 631-600-305.

4.06 The entire upper section of the CAD-12 may be removed during placing and splicing operations. The top section is removed by unscrewing two bolts on the inside and two on the outside of the closure. (Figure 17)

4.07 Top entrance cables may be installed by removing the knockout from the top of the closure. The TG-4/6, which is to be used with the CAD-4, and the TG-8/12, for the CAD-8 and 12 inch closures, these grommets are to be ordered separately. They should be inserted in the knockout hole in the top of the closure and secured with the nut and washer provided. (Figure 18) If the grommet opening is too small, trim it to fit. If it is too large, build out the cable sheath with B sealing tape. Several turns of vinyl tape should be placed around the grommet and cable to prevent the entrance of water and insects.

4.08 The sheath opening for top entrance cables should be at the same location as the bottom entrance cable. Install D bond clamps and connect the bond braid eyelet to all other sheaths entering the closure, as described in Section 5.

5. BONDING AND GROUNDING

5.01 The main feature of the D bond clamp is a simplified installation method **which does not require** slitting and taping of the sheath in most installations. The D bond clamp is approximately 0.6 inches longer than the B bond clamp in order to achieve approximately the same amount of surface contact on the metallic shield and also the desired mechanical strength. A tab on one end of the inner plate, similar to that of the B bond clamp, acts as a fulcrum when the outer plate is tightened. Two sets of triangular teeth are provided in the outer plate of

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the bond clamp to bite into the plastic cable sheath. These teeth are oriented 90° from those of the B bond clamp facing along the axis of the cable for improved grip. Projections are provided at one end of the outer plate to aid in positioning and holding hose clamps when used in other pedestal type closures. The bond clamp installation is described in BSP 081-852-118.

5.02 Start from the hinge side of the backplate, attach the first eyelet of the braided ribbon (KS-20851-L1) ground lead to the stud of one of the D bond clamps on the cable. Extend the ground lead to the bond clamp of one of the other cables. Place each eyelet over the stud so that it rests **against** the bond clamp.

5.03 The nuts and washers should be placed and tightened **securely** with the 216-B tool. This procedure should be continued until **every** cable entering the closure is connected with the ground strap. (Figure 19)

5.04 Do not cut the slack from the braid. Store the excess in the base of the closure so that it will be available if additional cables are added.

5.05 The 104 copper wire, sometimes required in the same trench with the buried cable, should be attached to the "L" ground bracket.

5.06 The No. 6 ground wire necessary for bonding the closure to power company vertical grounds as required by BSP 629-020-100 and other practices, shall be connected to the "L" ground bracket. The other end should be connected to the vertical ground with an AT-7796X, Size 6 (Fargo) connector.

6. TERMINAL BLOCKS

6.01 RGT terminal blocks will be installed in all CAD closures where **station activity may be involved**. Service wires **must not** be connected directly to the cable conductor.

6.02 The terminal block and count will be specified on the work print. The block will be placed on the backplate (in the designated location) and all pairs hard spliced behind the backplate.

6.03 The terminal blocks that may be used with the family of CAD closures are:

- (a) The RGT-12 is a 12 pair unprotected terminal

block used for terminating buried service wires and aerial drop wires. These blocks are made of molded plastic containing 12 pair (pre-numbered) binding posts. They are provided with 24 gauge PVC sheathed terminal leads 36" long for connecting the cable conductor with a fusible link to the binding post. (Figures 20, 21 & 22)

- (b) The RGT-25 is a 25 pair unprotected terminal block used for terminating buried service wires and aerial drop wires where protection is not required and where high activity or high concentration of drops are anticipated. The block is made of molded plastic containing 25 (pre-numbered) pair of binding posts. They are provided with 24 gauge PVC sheathed terminal leads 36" long for connecting the cable conductors with a fusible link to the binding post. (Figure 23 - CAD-8/Figure 24 - CAD-12)

- (c) The RGT-8P1 (Figure 25) is to be used in the CAD-8 and 12 buried cable closures and the RGT-25P will be used only in the CAD-12 where protection is required and for high activity or heavy concentration of drops are required. (Figure 26) The protected terminal is equipped with Reliable Electric Company R-107B protector units with 2A1B protector units for cable protection (.006 inches) and has two **internally connected** ground posts located on the front section of the faceplate. Connect the ground post to the ground position on the back of the backplate with a 6 inch bond strap. (Figures 25 and 26)

6.04 Mount the block on the face of the backplate in the correct location. (See Figures 20 through 26, and the decal — Figure 27) All terminal block locations in all closures will have a diagonal line designation, all other locations will be non-standard.

6.05 Insert the terminal block stub through the proper hole in the backplate so that it can be bridged to the appropriate cable pairs. (Figure 27) This + symbol will designate the stub location for all closures on all backplates.

7. TERMINATING SERVICE WIRES

7.01 The CAD closure will accommodate aerial drop wire, block wire, buried wire and buried service wire. (For cable protection requirements,

see BSP 638-200-011.)

7.02 Aerial drop wire and block wire may be extended down the pole through a single wire run and enter the closure through the rubber entry grommets on the (right) side of the closure. Each entry grommet is limited to 3 aerial drops or 6 block wires. If more than 6 aerial drops are installed, the entry grommets on the left side of the closure will be used. See Figure 28 for wire run on a pole.

7.03 The correct amount of slack required for any wire entering the closure is shown in Figures 31, 31A & 31B. **THE PROPER AMOUNT OF SLACK MUST BE PLACED TO ALLOW THE SPLICE CHAMBER DOOR TO BE OPENED.**

7.04 To terminate an aerial drop in any of the CAD closures, route the wire through the distribution rings as shown in Figures 29, 29A, 30 & 30A. Enough aerial drop wire or block wire should be installed to reach the top of the connecting block. Place the proper amount of slack in the wire as shown in Figures 31 & 31B.

7.05 Once the correct amount of wire has been installed in the closure, do not cut off the excess wire when the wire is moved from one binding post to another. Store the excess wire in the bottom of the closure.

7.06 Block wire will be routed through the distribution rings using the same route as is used for buried service wires shown in Figures 29, 29A, 30 & 30A. Place the proper amount of slack as shown in Figures 31 & 31B. Once the correct amount of wire has been installed in the closure, do not cut off the excess wire when the wire is moved from one binding post to another. Store the excess wire in the bottom of the closure.

7.07 If drop or block wire is removed from the closure, care should be taken to assure the entry grommet remains in the closure.

7.08 To permanently install buried service wire in the CAD closures, the wire is brought up through the center of the bottom half of the closure.

NOTE: DO NOT USE PROVIDED DROP WIRE CHANNEL.

7.09 The correct amount of wire to be placed above the bonding bar is shown in Figure 32.

7.10 Remove the outer sheath of the buried service wire from the bottom of the bonding bracket to the end of the wire.

7.11 Remove the aluminum shield of the buried service wire to 1 inch above the outer sheath. Place the buried service wire in the provided wire clamp with the aluminum shield being in the clamp. Place the wire clamp in the bonding bracket and tighten securely as shown in Figure 33.

7.12 Mark each service wire with a 3 inch piece of B glass tape indicating the house address. Wrap the tape around the service wire just above the bonding bracket with the sticky side of the tape stuck together. (See Figures 29, 29A, 30 & 30A)

7.13 Each closure comes equipped with one B service wire clamp. The B service wire clamp has a maximum capacity of 6 buried service wires. (See Figure 33) One additional B service wire clamp may be installed on the bonding bracket.

7.14 The AT-7796X, Size 6 (Fargo) connector may be used in place of the B service wire clamp. The Fargo connector has a maximum capacity of 3 buried service wires. (See Figure 33A) The bonding bracket will accommodate a maximum of 3 Fargo connectors.

7.15 After the buried service wire has been tightened securely to the bonding bracket, pull enough wire up through the bottom of the closure to make a 3 inch slack loop just below the bonding bracket. (See Figure 31) **NOTE: SLACK LOOP MUST BE INSTALLED TO ALLOW SPLICE CHAMBER DOOR TO BE OPENED.** Then place 4 inches of pea gravel in the bottom of the closure.

7.16 Mark and remove the inner sheath of the buried service wire at the point where it enters the first distribution ring. (See Figures 29, 29A, 30 & 30A)

7.17 Pair up the red and green conductors and the yellow and black conductors of the buried service wire. **(Take)** each pair of conductors and twist it together tight enough so the pairs can be formed easily through the distribution rings.

7.18 Route the conductor pairs up through the distribution rings, over the top ring, then down through the rings to 1 inch below the bottom distribution ring. Cut both pairs **off at this point.** See Figures 29, 29A, 30 & 30A.

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7.19 Route the conductors to the assigned binding post as shown in Figures 29, 29A, 30 & 30A.

NOTE: NEVER CUT EXCESS WIRE OFF. STORE EXCESS WIRE AS SHOWN IN FIGURES 29, 29A, 30 & 30A. LEAVE THE SPARE CONDUCTORS STORED IN THE DISTRIBUTION RINGS AS SHOWN IN FIGURES 29, 29A, 30 & 30A.

7.20 To install an additional buried service wire at a later date, it will be necessary to dig to the bottom of the closure. **NOTE:** CARE SHOULD BE TAKEN NOT TO CUT OR NICK ANY EXISTING DROP OR CABLE. Remove enough pea gravel to allow the additional buried service wire to be placed.

7.21 After the additional buried service wire has been placed, refill the bottom of the closure with 4 inches of pea gravel.

7.22 Temporary buried service wires may be installed through the rubber entry grommets on either side of the closure. Place a 3 inch slack loop below the bonding bracket as shown in Figure 31A. **NOTE:** WHEN REMOVING A TEMPORARY SERVICE WIRE, CARE MUST BE TAKEN TO ASSURE THE ENTRY GROMMET REMAINS IN THE CLOSURE.

7.23 Before placing the lid on the closure, close the plastic shield as shown in Figure 34.

7.24 Before leaving the closure site:

- (a) Make sure closure has the proper amount of pea gravel in the base.
- (b) Make sure closure has correct terminal address.
- (c) Make sure closure has a warning decal in place.
- (d) Make sure all entry grommets are in place.
- (e) Clean up any company trash around the closure.

8. SPLICING

8.01 The splicing capacities of the CAD type closures are listed in Table C.

8.02 All cable pairs, both terminal stub and cable

conductors, are to be installed and spliced behind the backplate. Remove 12" sheath from RGT terminal stub and splice to the appropriate cable pairs behind backplate. Place ty-rap around stub and all other cables. (Figure 35)

8.03 700, 701, 702 and 710 connectors are to be first choice on all filled cable splicing. If B wire connectors are used, the insulation on all filled cable must be removed for splicing. All 19 and 22 gauge air core must be stripped when B wire connectors are used. PIC-A-Bond connectors will **only** be used for half tapping and bridging terminal stubs and other cable stubs on through cable locations (loops in buried closures and aerial terminal locations).

8.04 PIC (air core or jelly filled) or combinations of both may be spliced in the CAD closure.

8.05 All air core cable shall be effectively plugged as described in 631-600-305 to prevent moisture from entering the cable.

8.06 The sheath opening on all bottom entrance cables is 4 inches above the top of the front bottom cover. (Figure 36)

8.07 After the core wrap has been removed, binder group identification ties installed and bonding harness completed for a fold splice:

- (a) Fold back splice, permanently secure the entire conductor bundle of each cable to the top of the closure with cable ty-raps. Care should be taken to properly align and mark the wire groups so that the ends can be identified. Cut the ends of the first group to be spliced 1 inch above the top of the cable butts or 5 inches above the top of the front bottom cover. The groups will be arranged in rows or bays. There should be 1 inch difference in the length of the rows or bays. Divide the total number of pairs being spliced by the number of bays or rows to arrive at an equal distribution of the spliced pairs. Upon completion, the splicing connector and the conductors should be secured to the back of the closure with a cable tie. (Figure 37)

8.08 The modular splicing system may be used with the CAD closure. A universal splicing head support assembly 4045 is designed to hold the stem of a 710 splicing head or the stem and support bar for a Pair-O-Matic. (Figures 38 and 39)

8.09 Attach the 710 splicing head stem to the support assembly. Refer to BSP 632-205-200 for step-by-step splicing and installation configurations.

9. LOADING

9.01 There are two options available for installing load coils in the CAD closure. 701 and 702 type load coil cases may be physically placed in the bottom of the closure and the pairs spliced in the upper portion of the closure behind the backplate. Larger load coil cases should be buried adjacent to the closure and the load coil stub buried with the other cables entering the base of the closure. (Figure 3)

9.02 End seals, as described in 631-600-305, **shall be placed on all** PIC air core coil stubs entering the closure.

9.03 Bond clamps must also be installed on all coil stubs entering the closure as described in

Section 5 of this practice.

9.04 When 701 and 702 type load coil cases are placed in the bottom of the CAD closure, the conductors must be protected from possible damage. This is accomplished by placing vinyl tape, in tight half-lapped layers, over 7 inches of the conductors from the coil. The top of the case should be flush with the existing cable butts. The load coil case should be secured to the existing cable with two ty-raps.

9.05 Splicing of the load coil conductors is performed as if it were another cable entering the closure. Refer to BSP 643-700-201 for stub arrangements and splicing.

10. MARKING

10.01 In certain locations, it is desirable to make the closures more easily seen. This can be done by mounting the closure on a 7 foot buried cable warning sign post and attaching the 10" X 14" warning sign.

Attachments:

Figures 1 through 39

TABLE C

**MAXIMUM LOOPED CABLE SIZE AND TERMINATING CAPACITIES
CAD TYPE CLOSURES**

	Maximum Size Loop Through (Terminal Only)	Maximum Size Straight Splice (With/Without Terminal)
CAD 4	50 - 19	50 - 19
	100 - 22	50 - 22
	100 - 24	100 - 24
	200 - 26	100 - 26
CAD 8	200 - 19	200 - 19
	400 - 22	200 - 22
	600 - 24	400 - 24
	600 - 26	400 - 26
CAD 12	300 - 19	300 - 19
	600 - 22	600 - 22
	900 - 24	900 - 24
	900 - 26	900 - 26

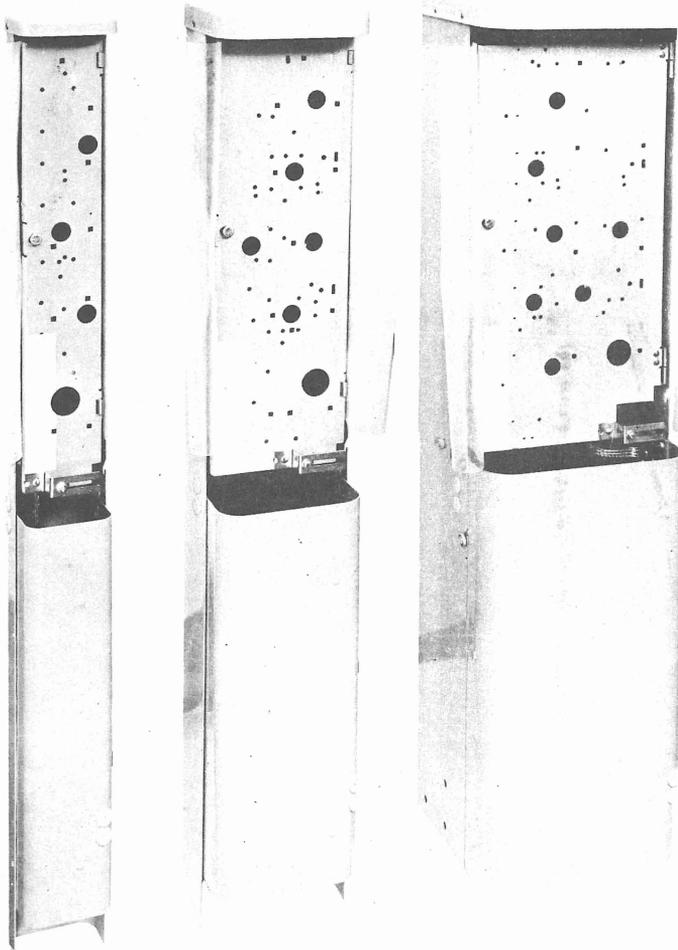
Formula for Closing Splicing Capacity:

Pairs Entering + Pairs Leaving + Pairs of Connectors

*Double if 29 or 22 Gauge

With/Without Terminal

CAD 4	350
CAD 8	1400
CAD 12	3600

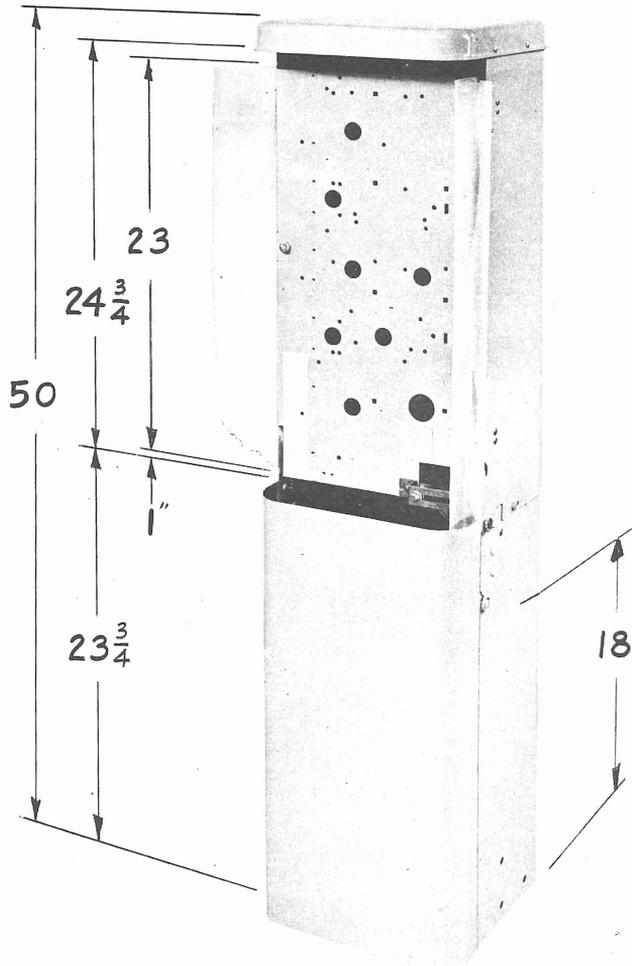


CAD 4

CAD 8

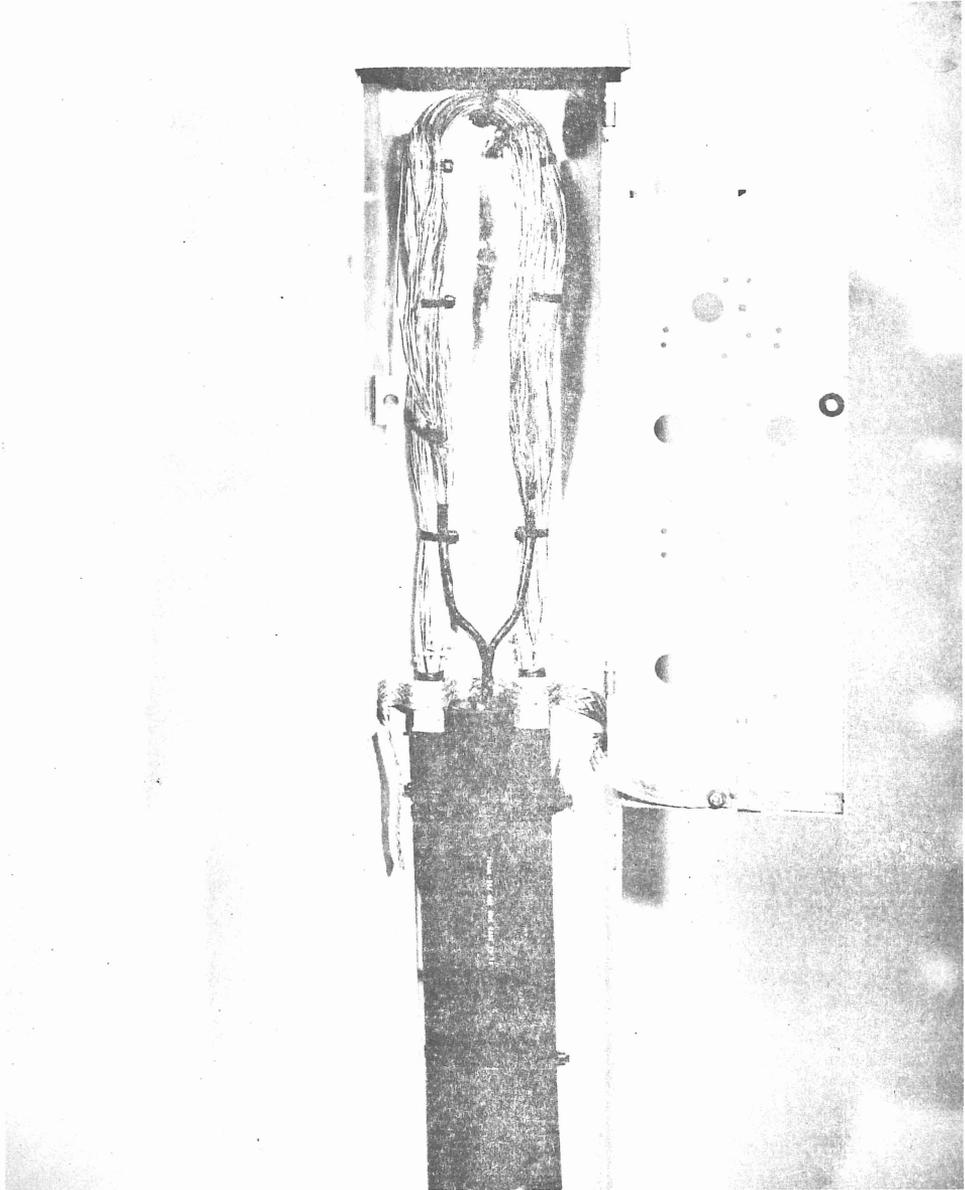
CAD 12

FIGURE 1



CAD 12

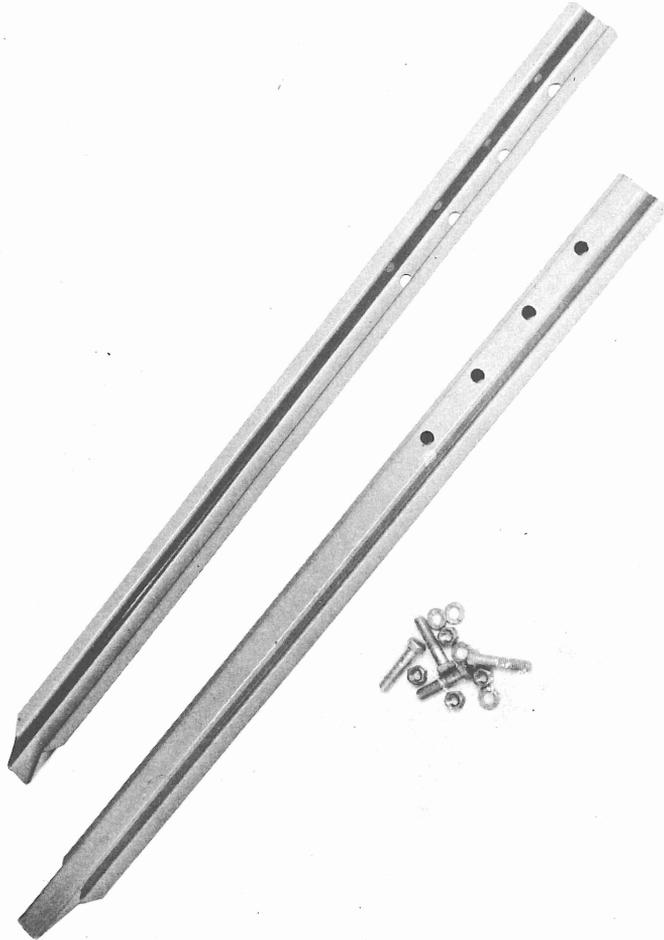
FIGURE 2



LOAD COIL IN CAD CLOSURE

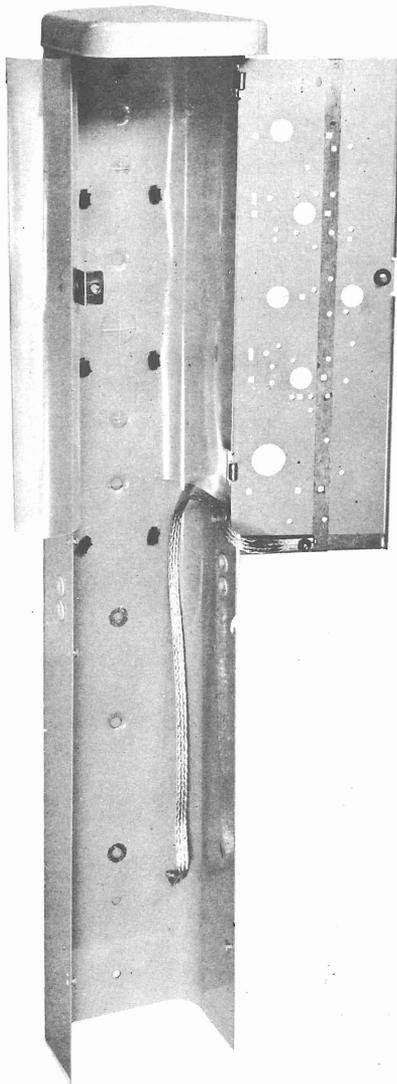
FIGURE 3

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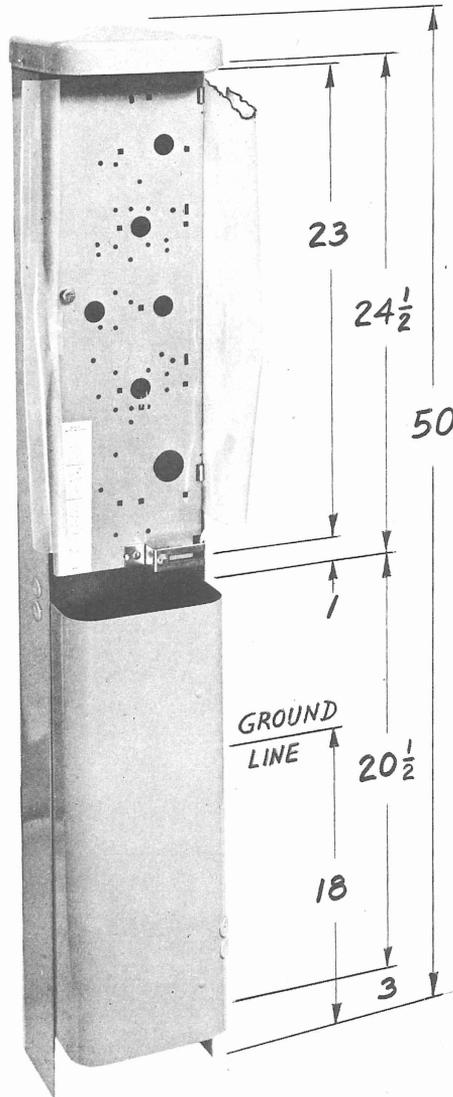
ANCHOR POST

FIGURE 4



A-18 279

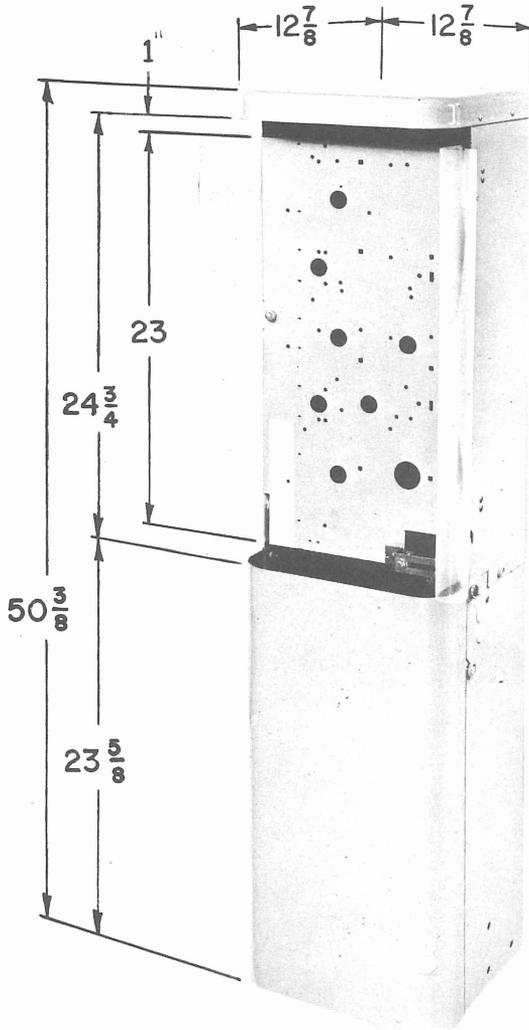
FIGURE 5



A-18330

CAD 4 & 8

FIGURE 6



CAD 12

FIGURE 7



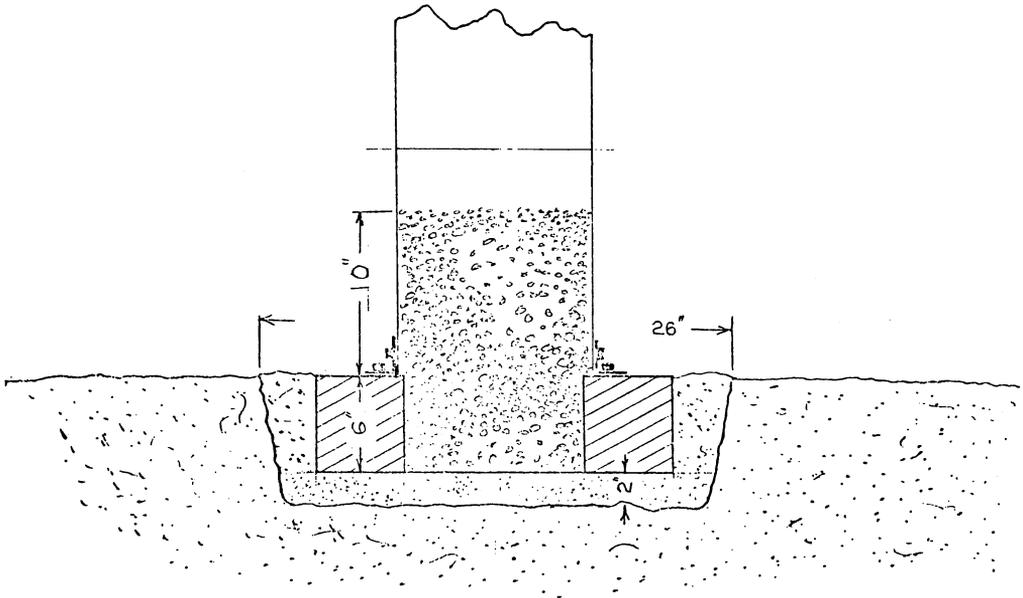
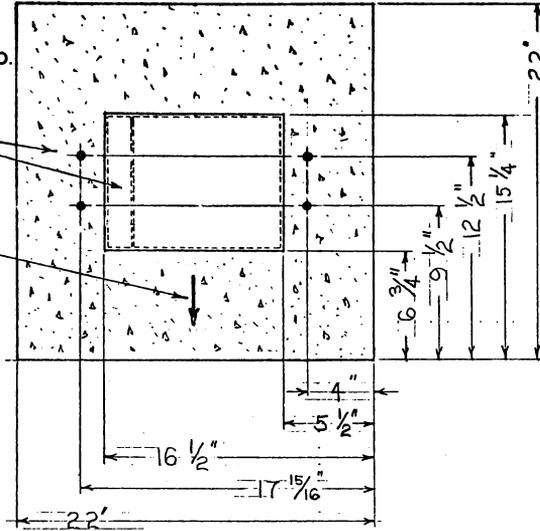
**B BOND CLAMP
FIGURE 8**

**TG GROMMET
FIGURE 9**

RICHMOND SCREW ANCHOR CO.
FERRULE ANCHOR INSERT
NO. ITSF 1/2" THD.
4 PLACES

CABLE LOOP ENTRY AREA

CLOSURE TO FACE
THIS DIRECTION



CONCRETE BASE CAD 12

FIGURE 10

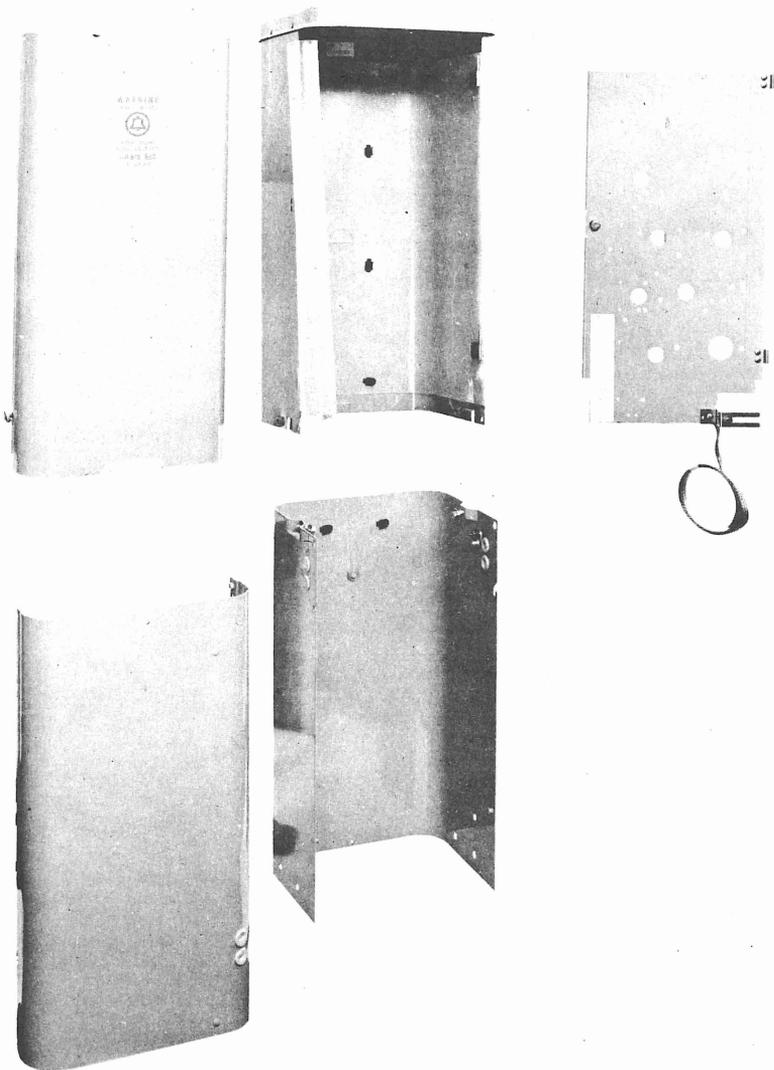


FIGURE 11

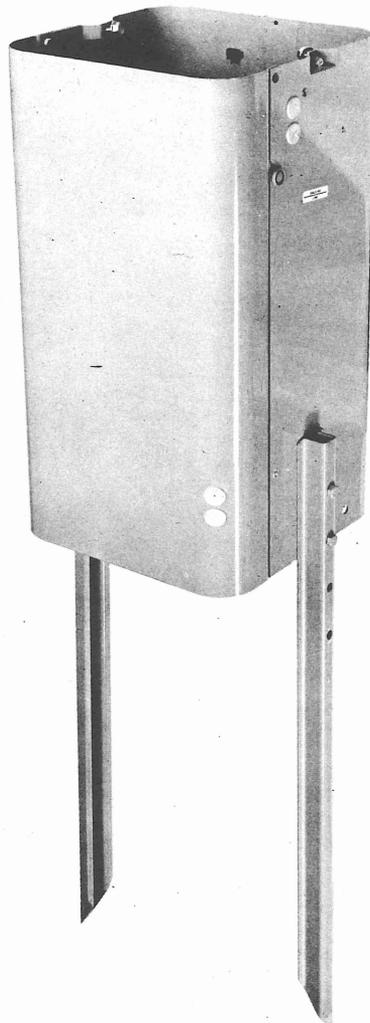
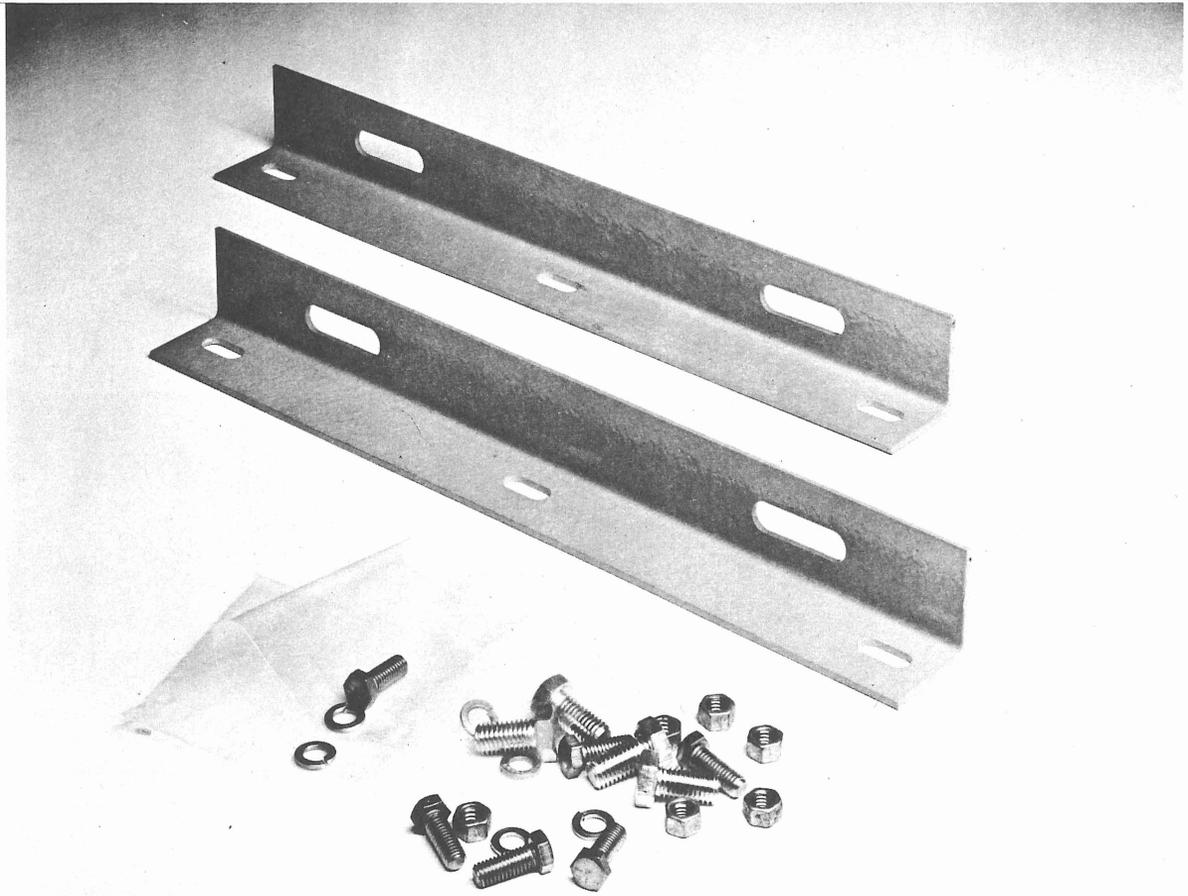


FIGURE 12



A-15729

PAD SUPPORT BRACKET FOR CAD 12

FIGURE 13

A-19291

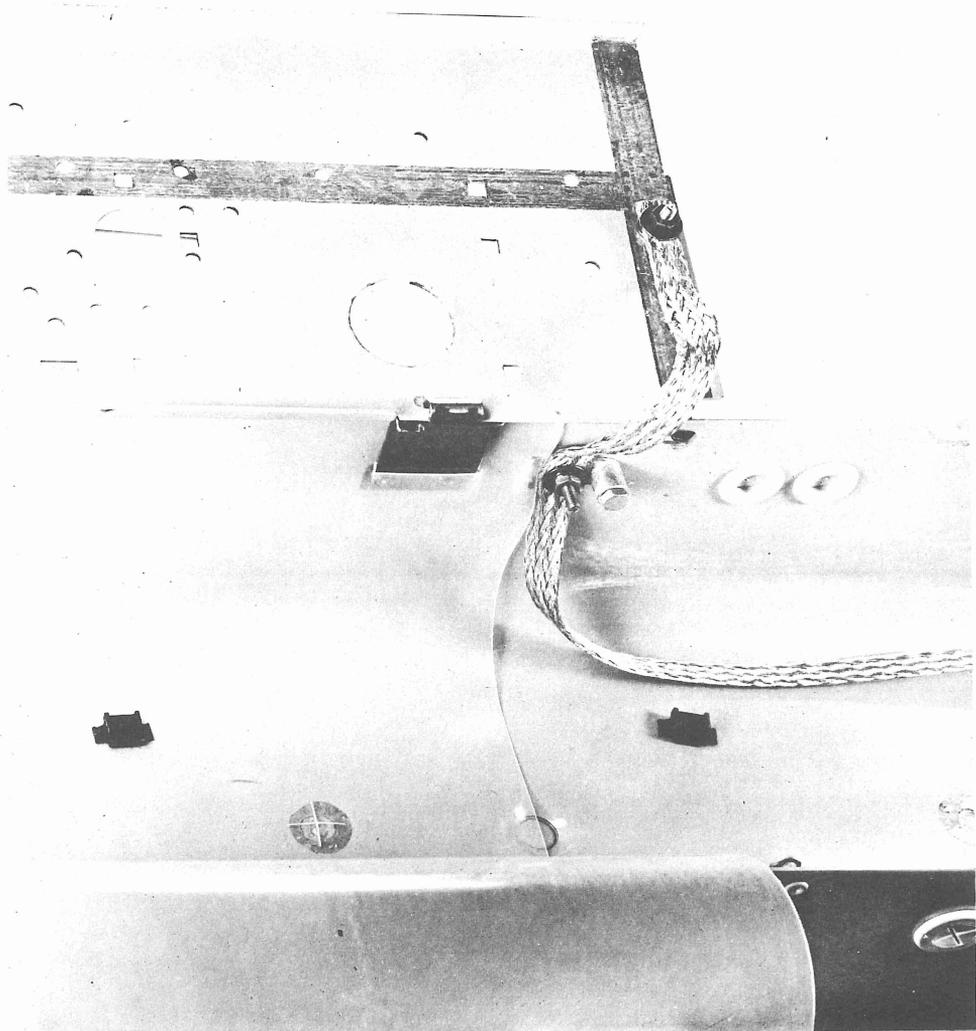
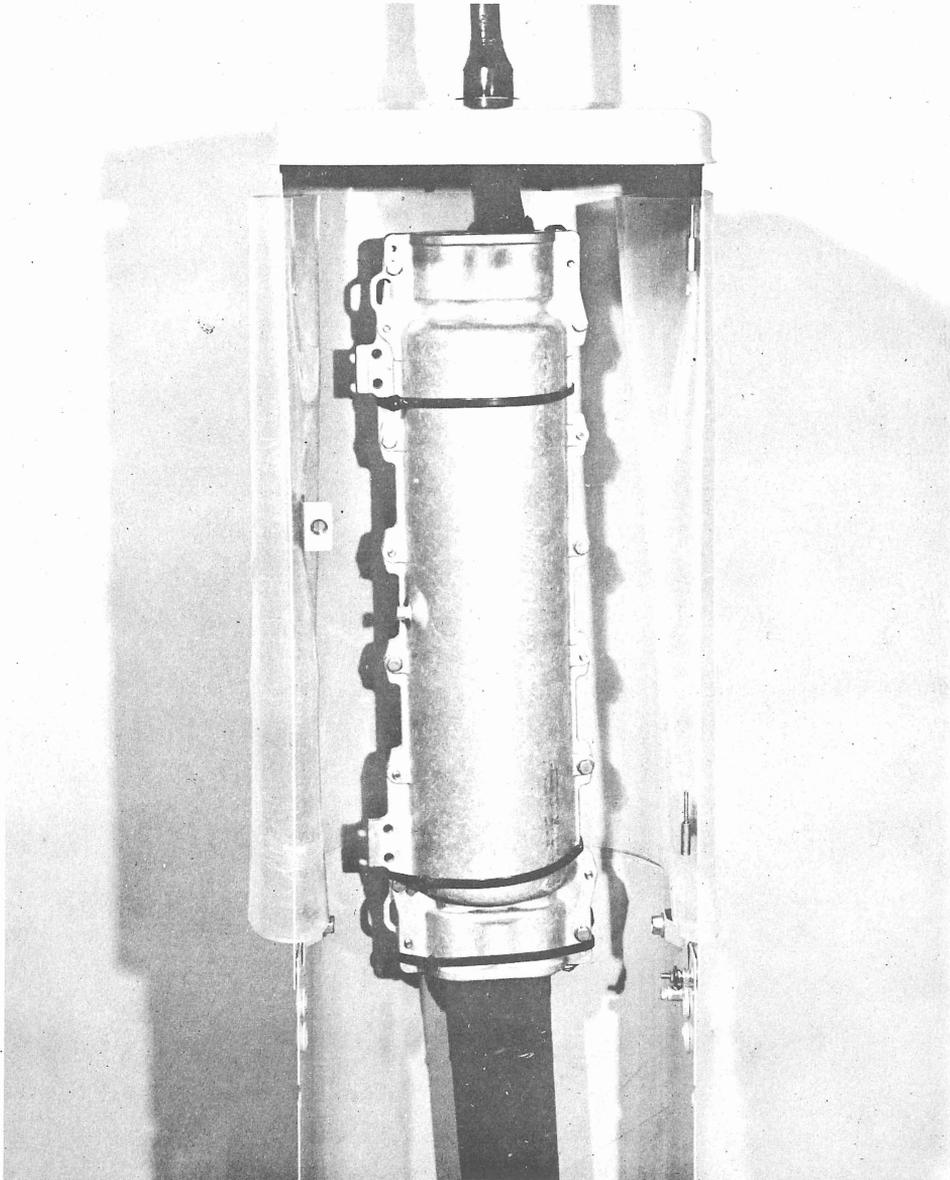


FIGURE 14



SPLICE CASE IN CAD 12

FIGURE 15

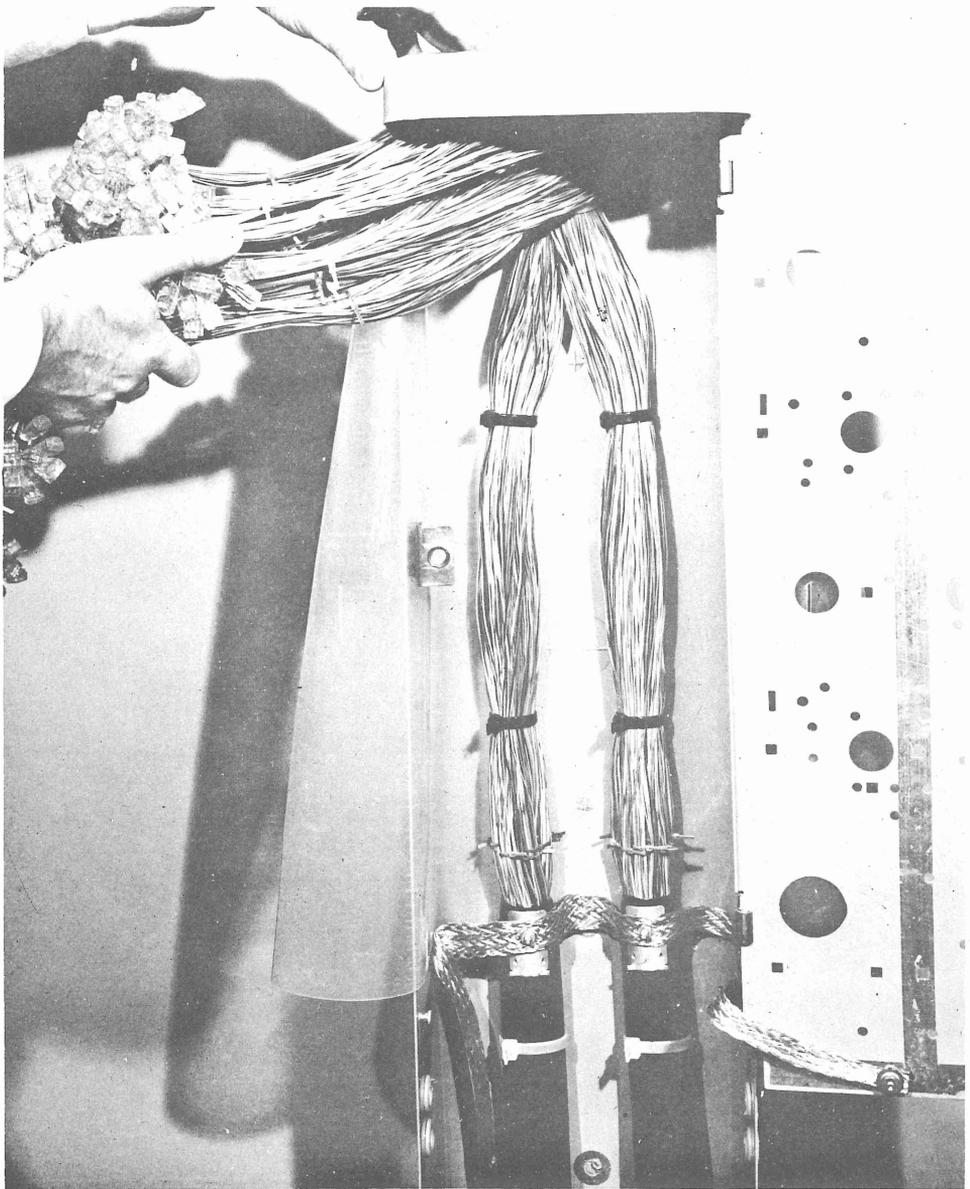


FIGURE 16

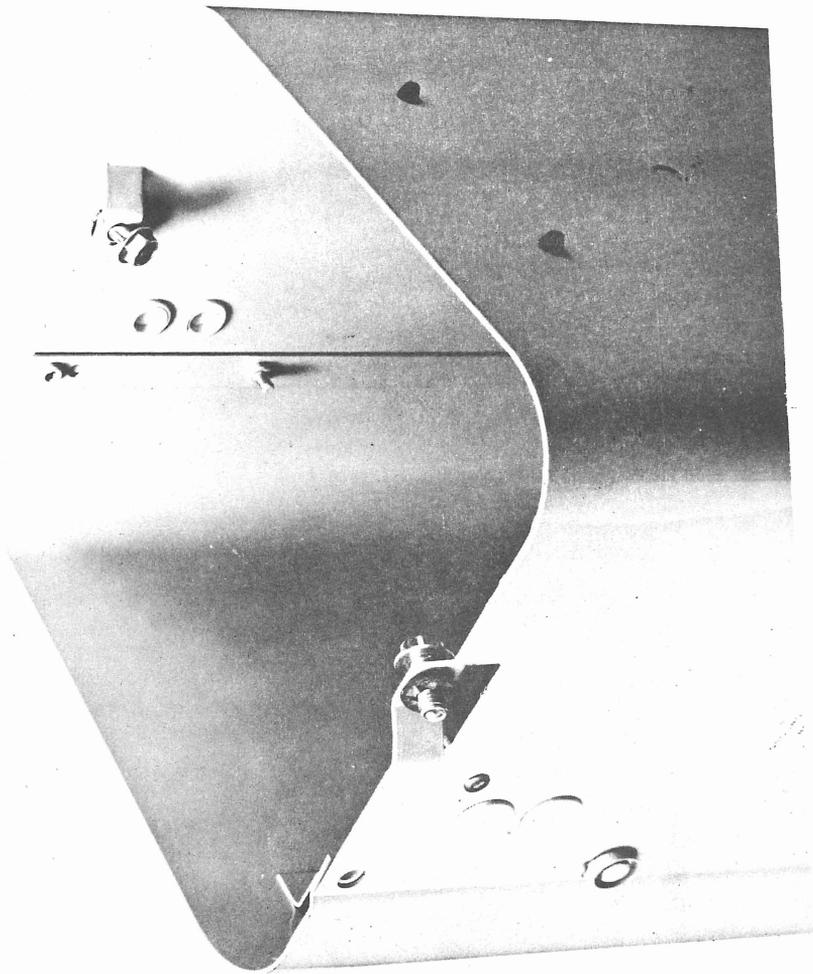
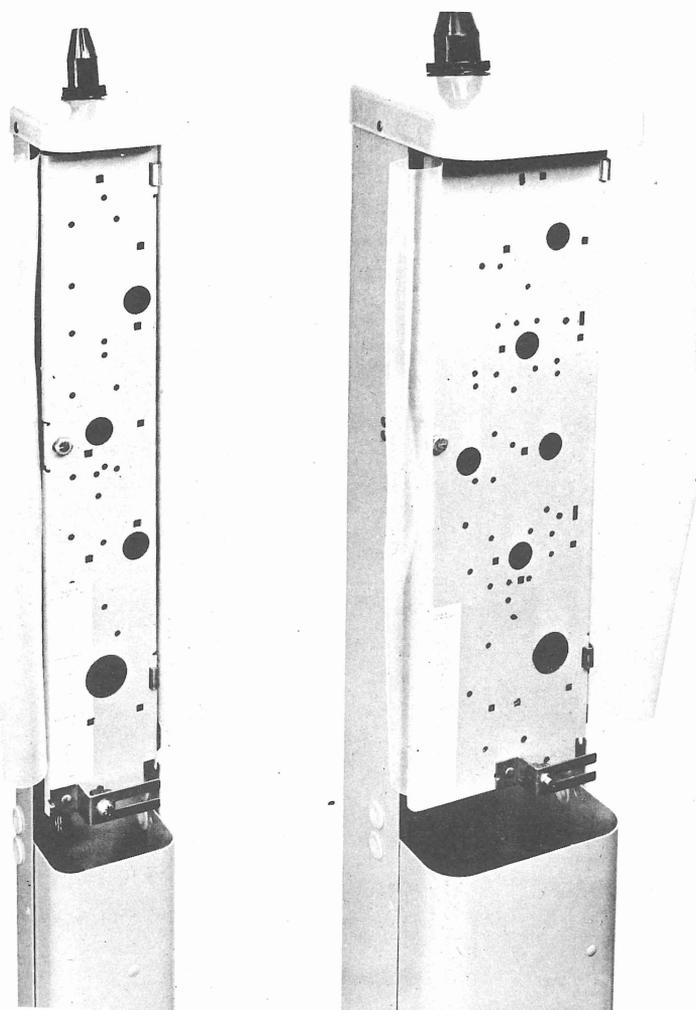


FIGURE 17



4-18277

FIGURE 18

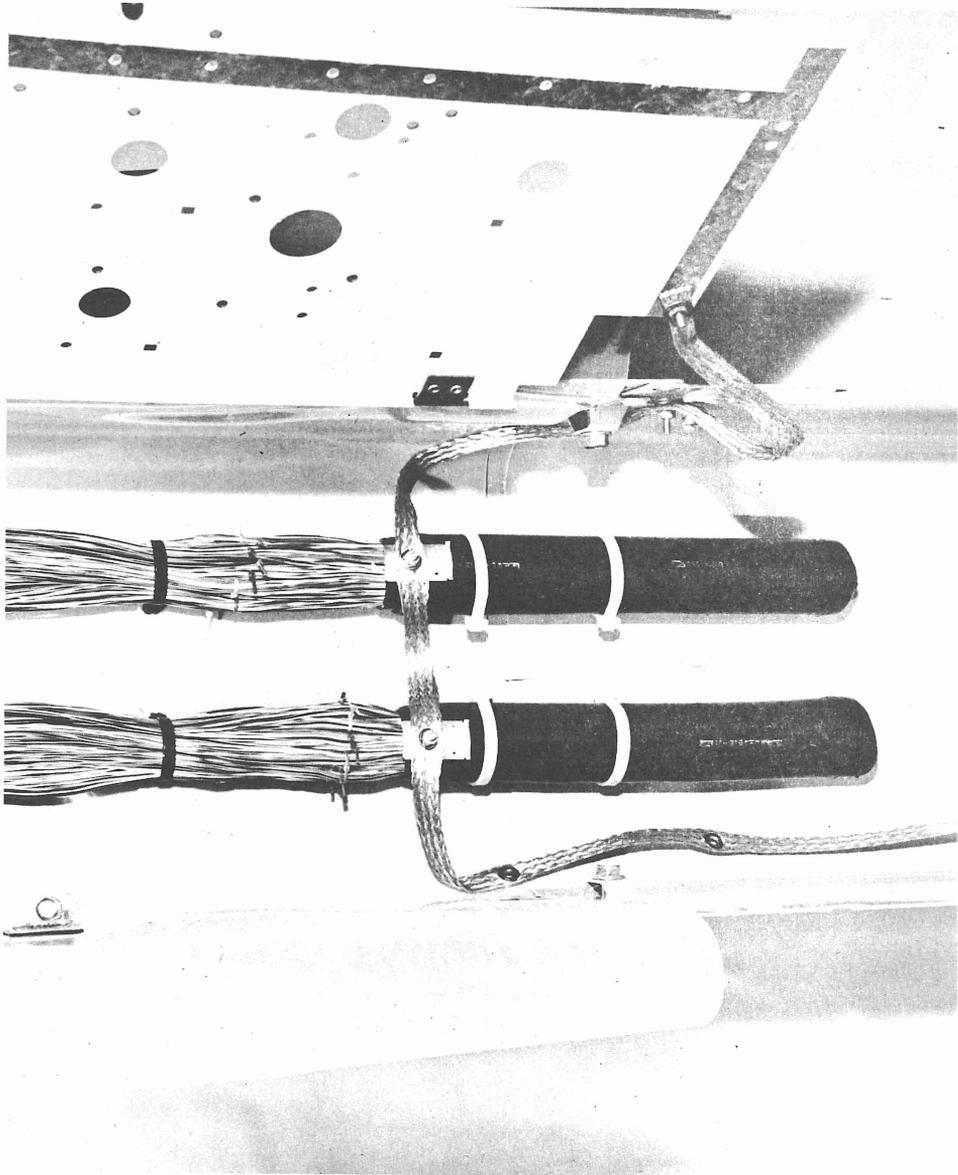
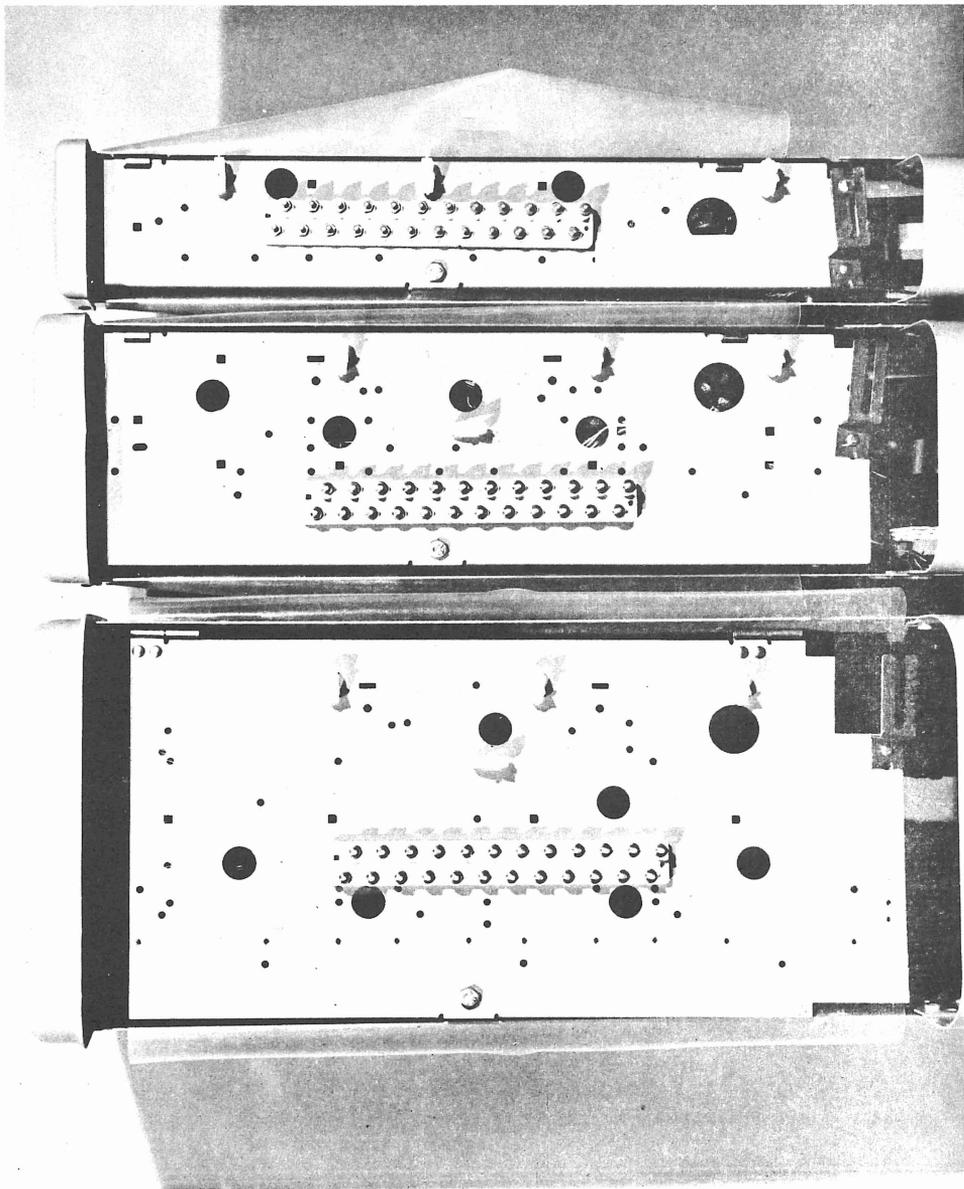


FIGURE 19



CAD 4

FIGURE 22

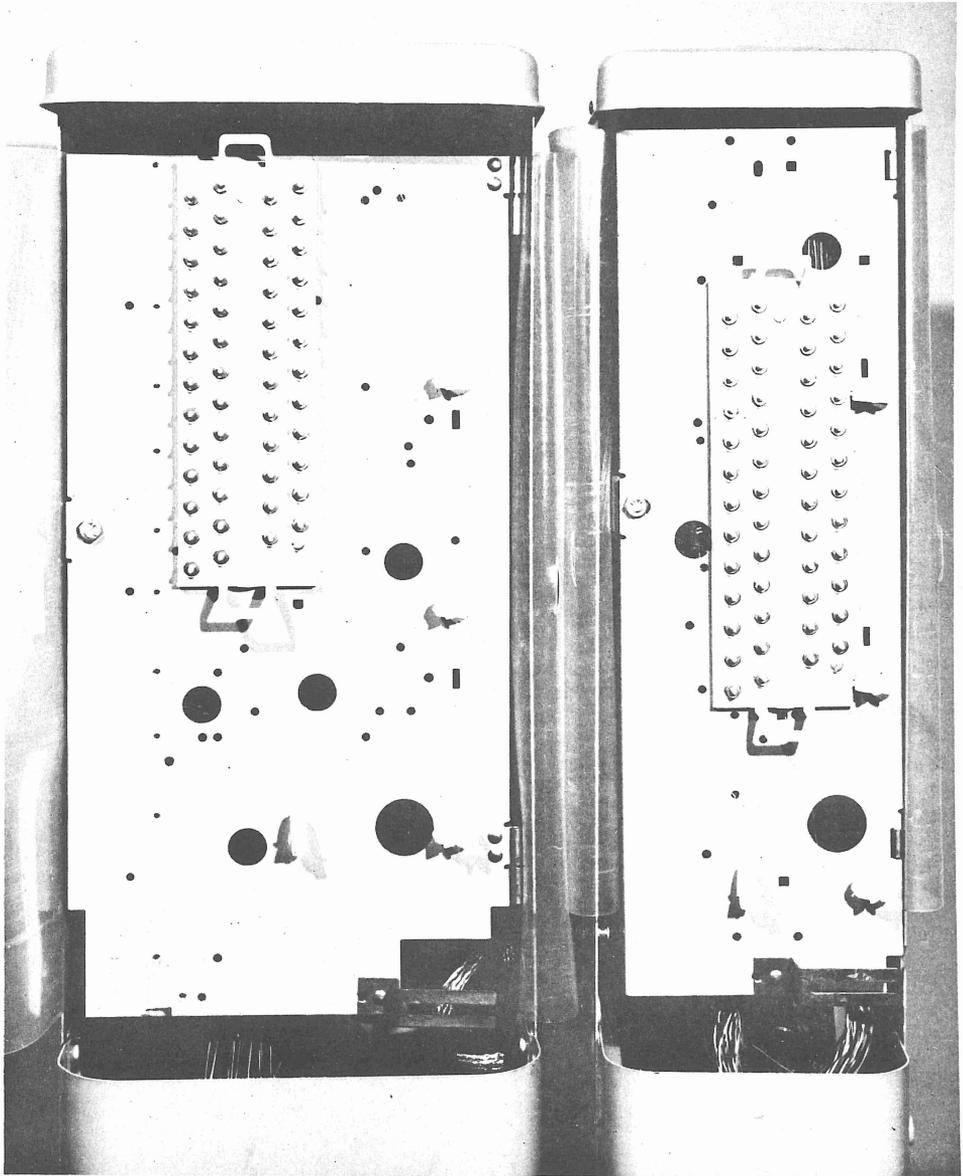
CAD 8

FIGURE 21

RGT 12

CAD 12

FIGURE 20



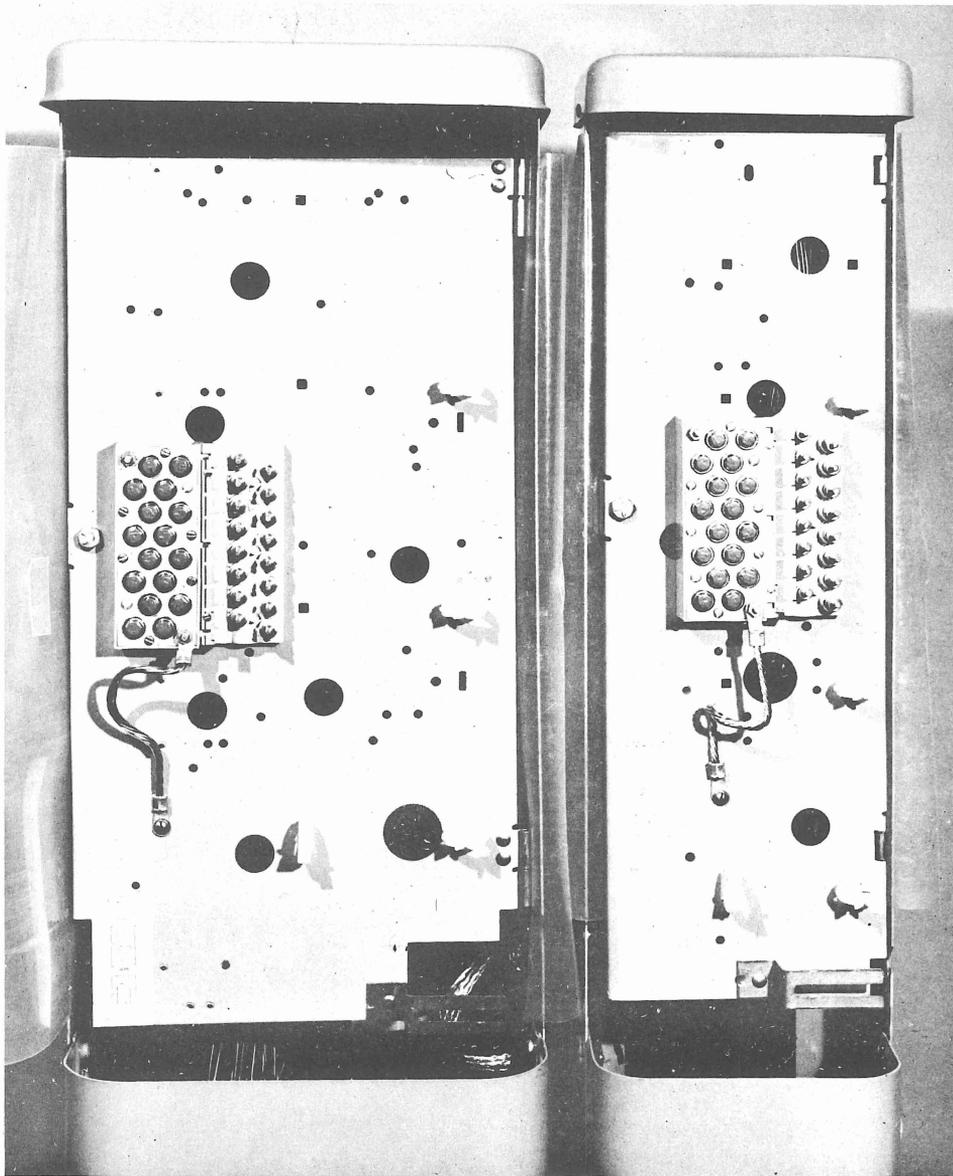
CAD 12

RGT 25

CAD 8

FIGURE 24

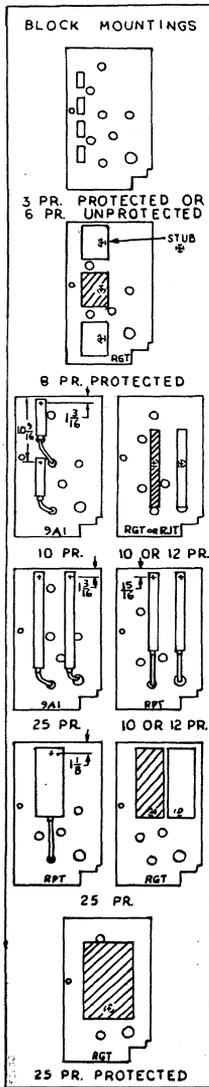
FIGURE 23



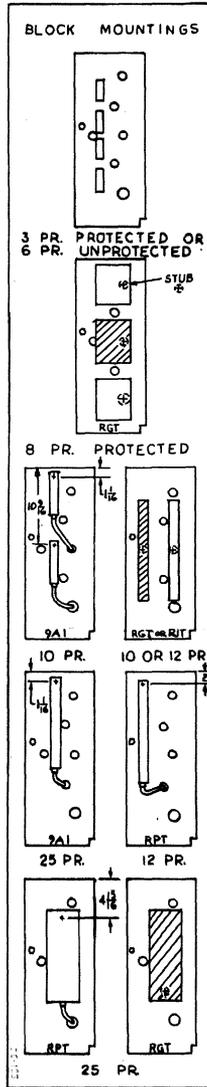
RGT 8P
CAD 12

RGT 8P
CAD 8

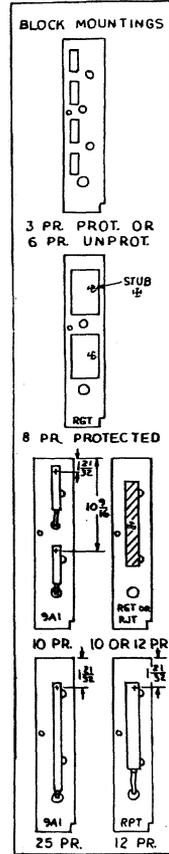
FIGURE 25



CAD 12



CAD 8



CAD 4

DECAL

FIGURE 27

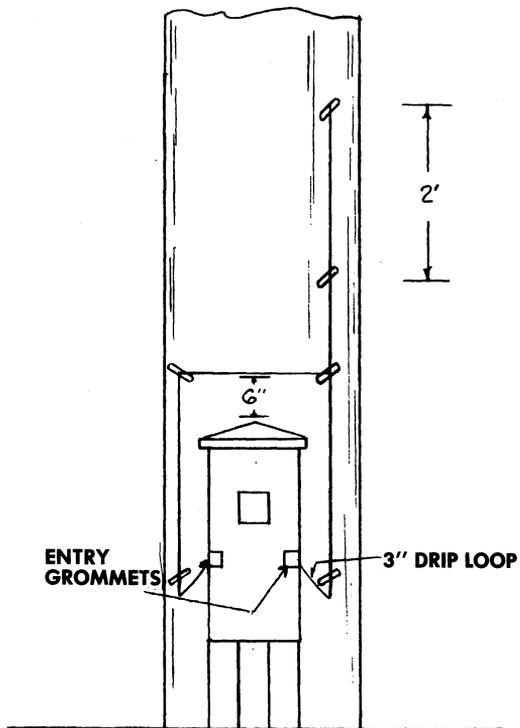


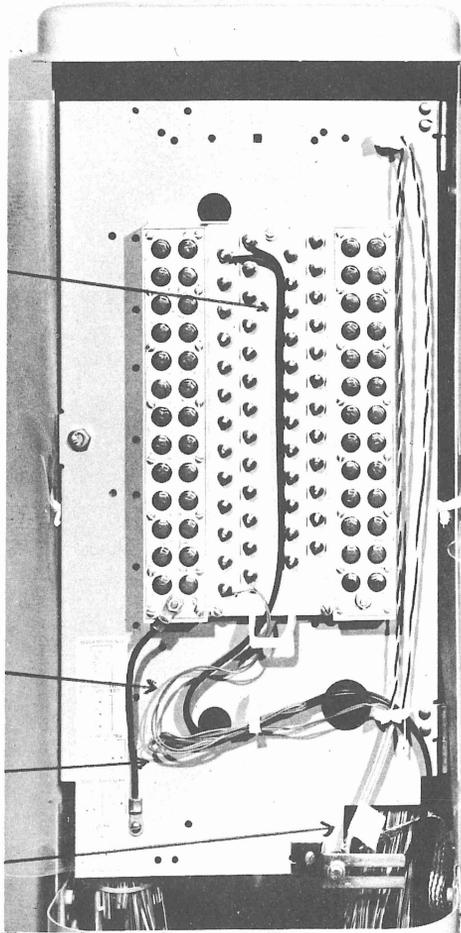
FIGURE 28

AERIAL
DROP

BURIED
SERVICE
WIRE

EXCESS
WIRE
LOOP

B GLASS
TAPE



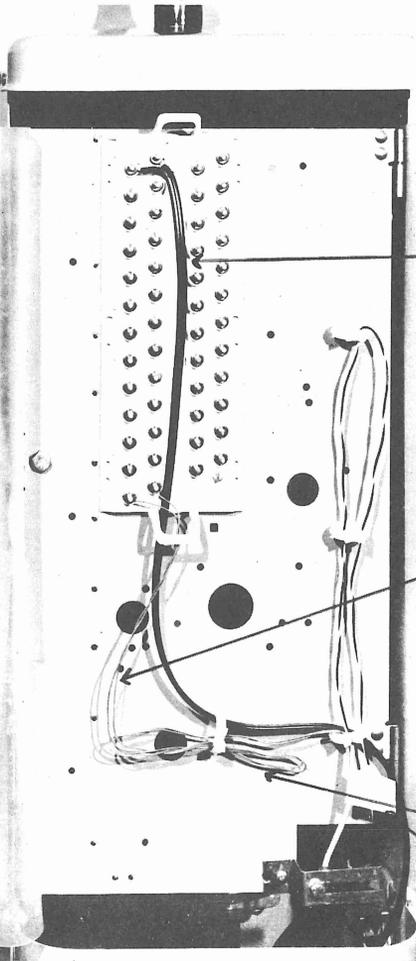
CAD 12
E/W RGT P25^x PROTECTED CONNECTING BLOCK

AERIAL
DROP

BURIED
SERVICE
WIRE

EXCESS
WIRE
LOOP

B GLASS
TAPE



CAD 12
E/W 25^x CONNECTING BLOCK

FIGURE 29

CAD 12
E/W RGT 12^x PROTECTED CONNECTING BLOCK

CAD 12
E/W RGT P8^x CONNECTING BLOCK

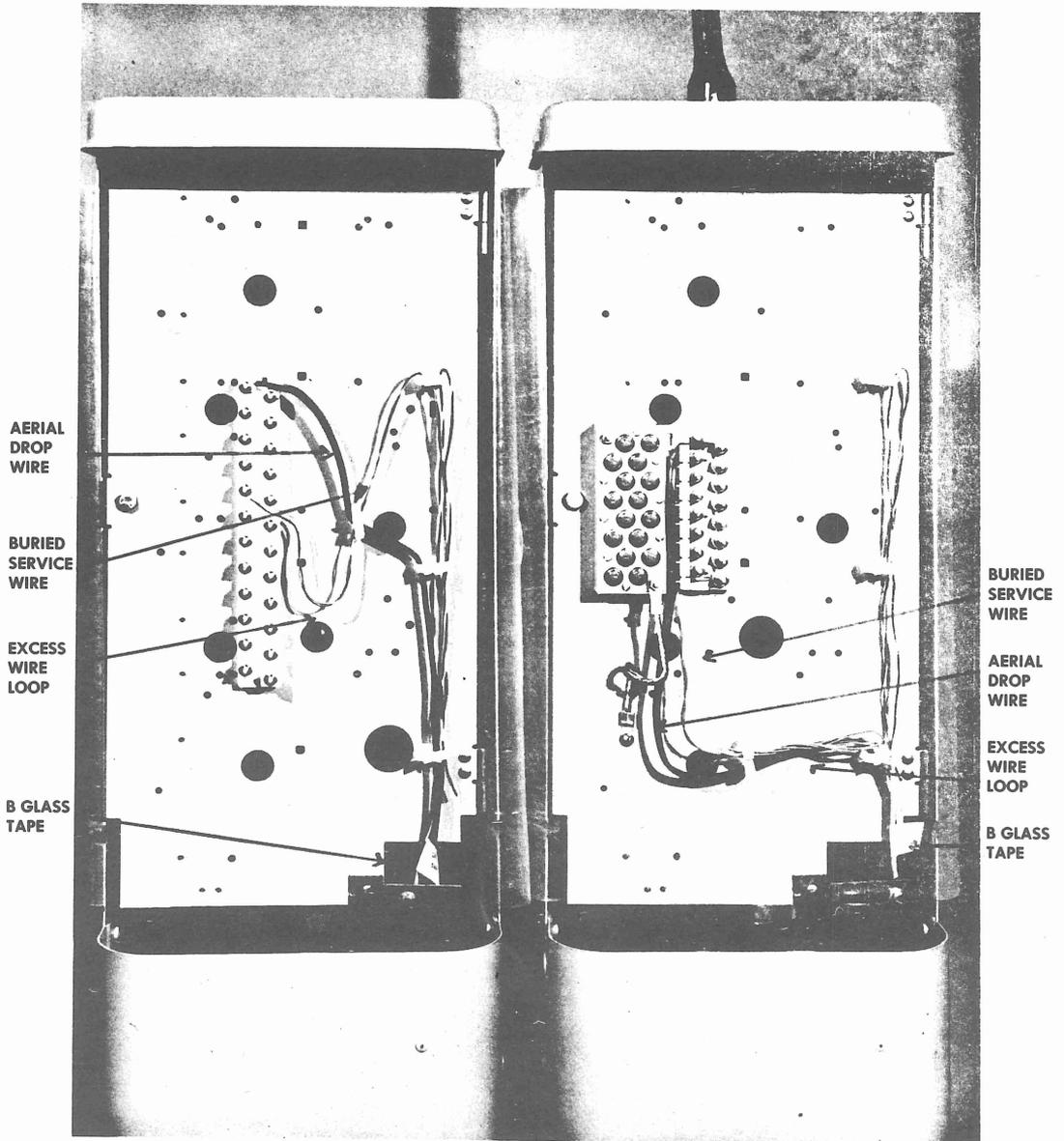


FIGURE 29A

CAD 8
E/W RGT 25^x CONNECTING BLOCK

CAD 8
E/W RGT 12^x CONNECTING BLOCK

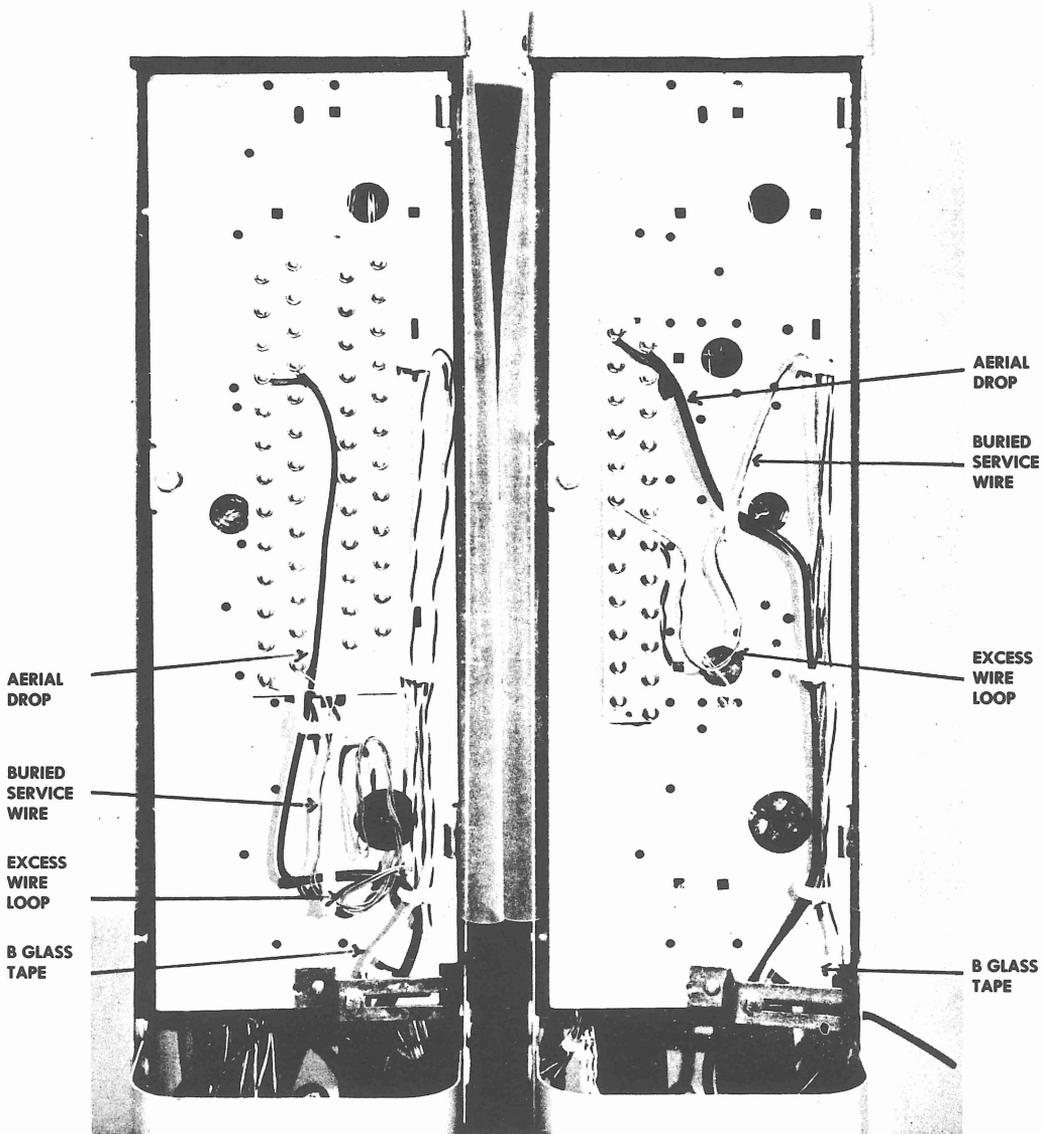


FIGURE 30

CAD 8
E/W RGT P8^x CONNECTING BLOCK

CAD 8
E/W RGT 12^x CONNECTING BLOCK

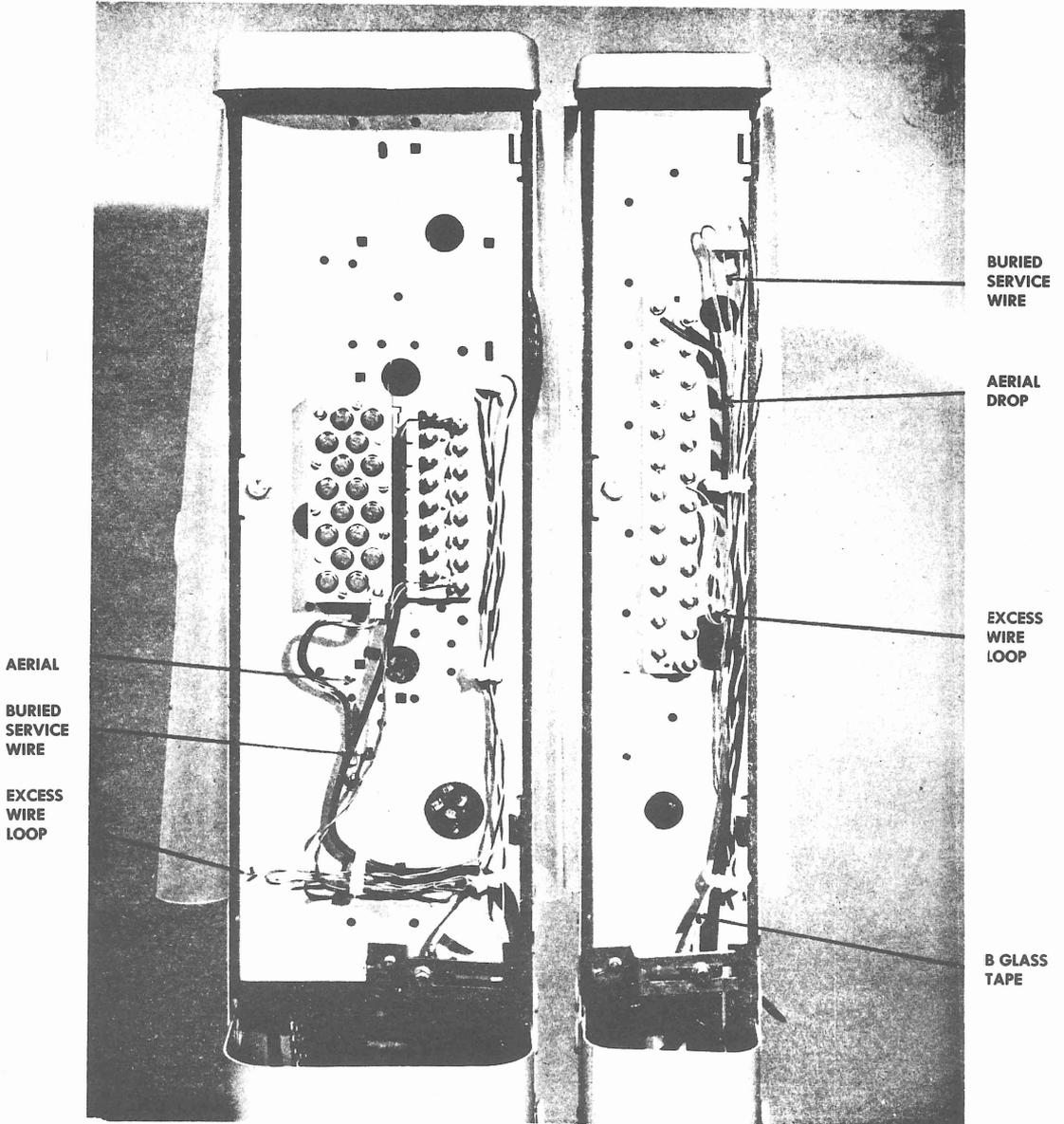


FIGURE 30A

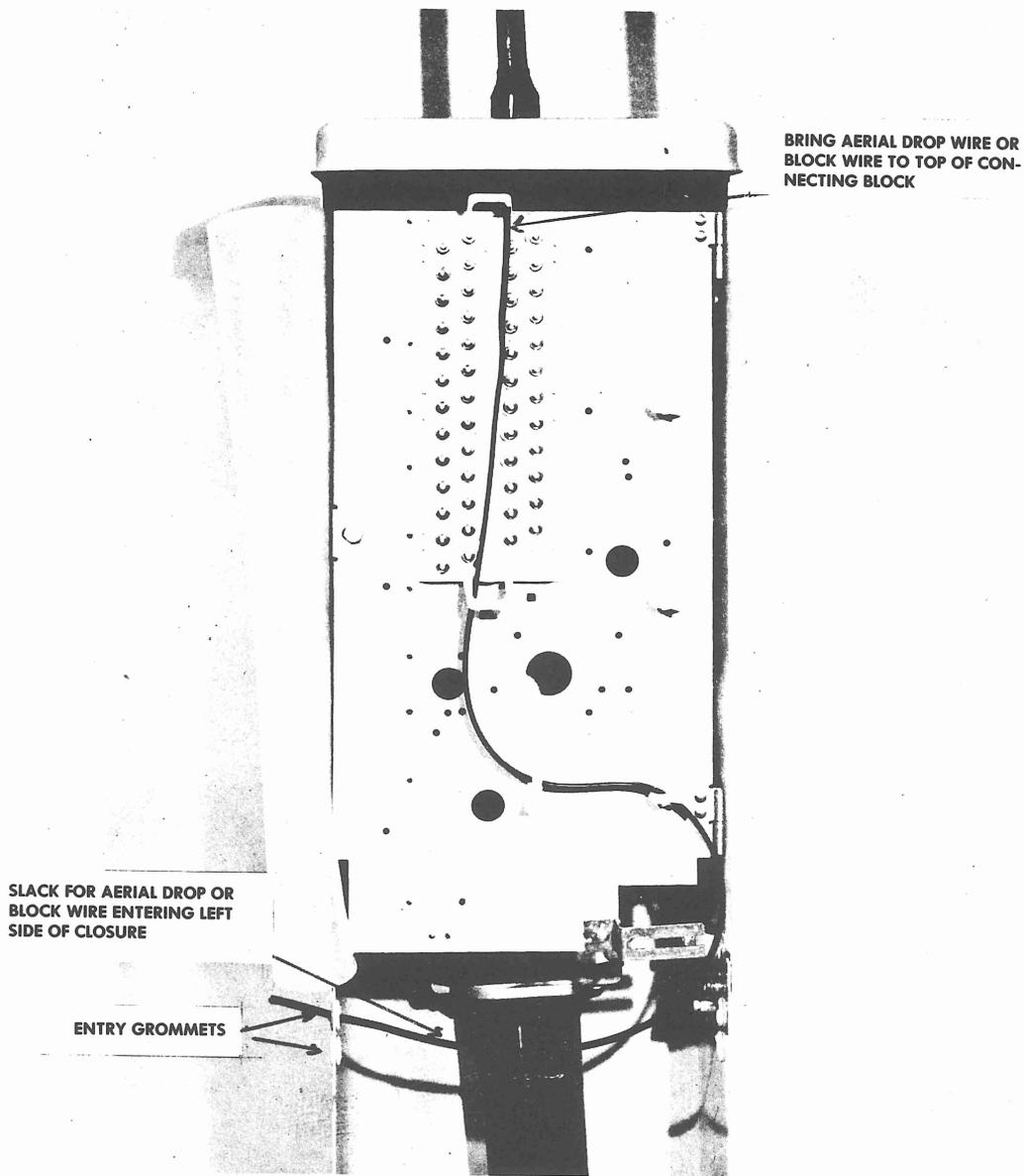


FIGURE 31

SLACK LOOP FOR BURIED
SERVICE WIRE

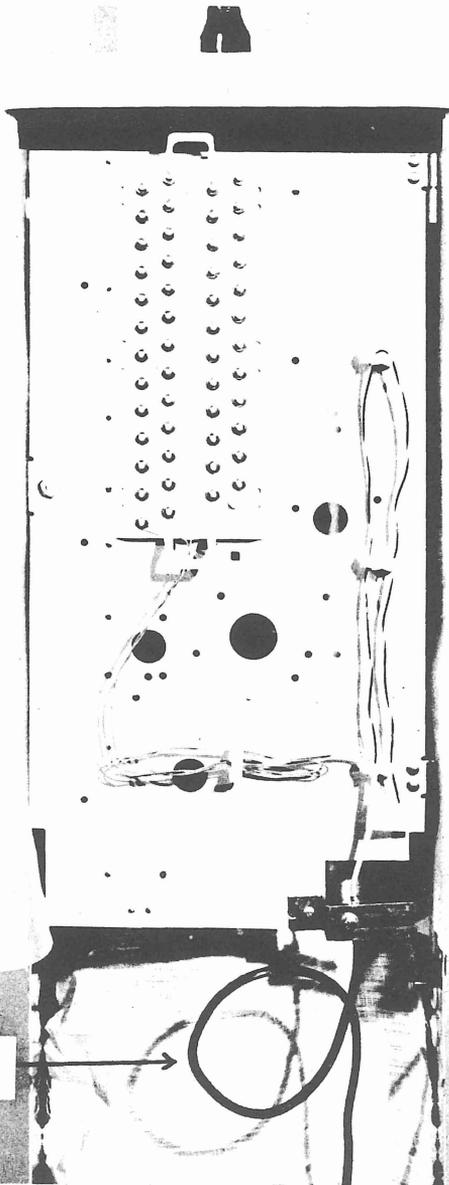
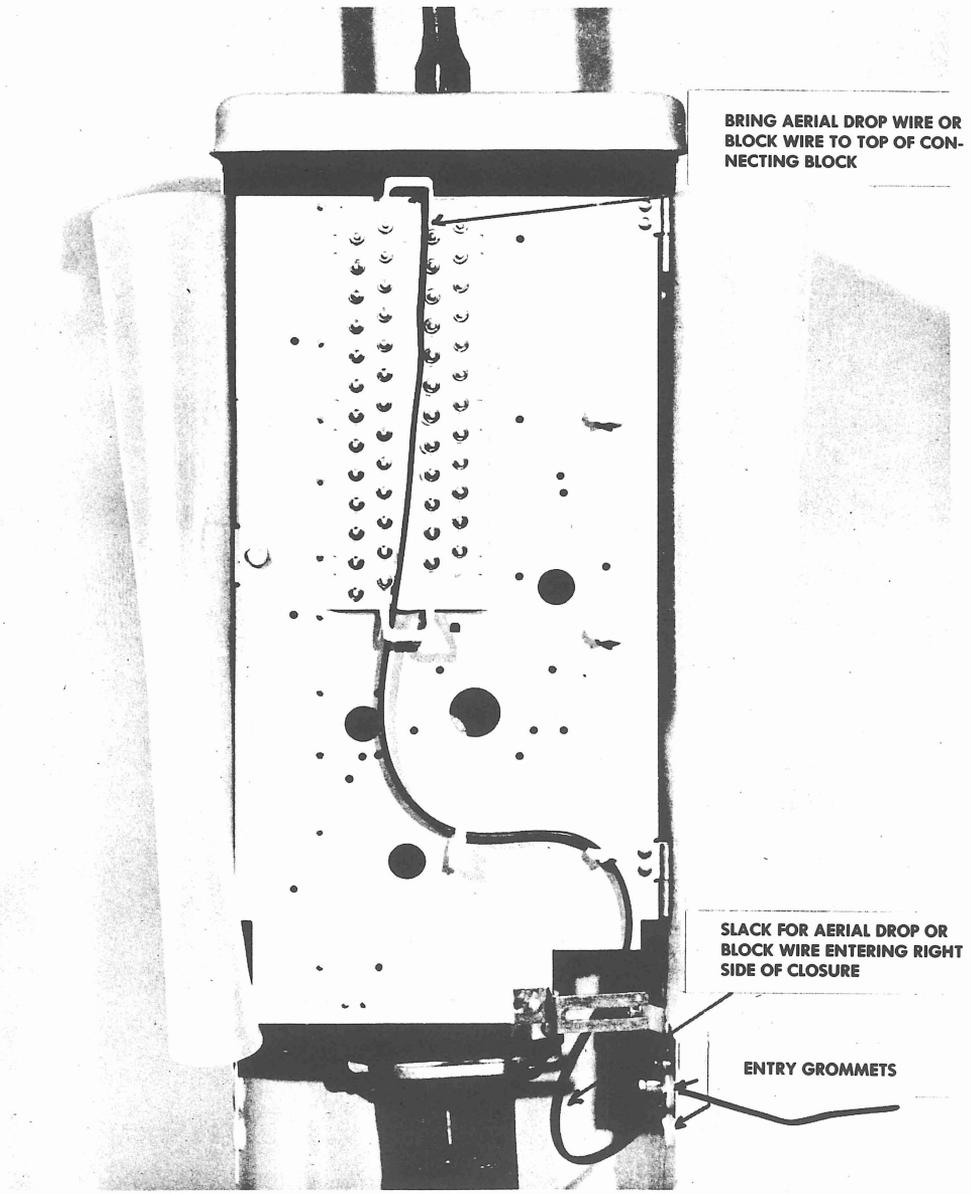


FIGURE 31A



BRING AERIAL DROP WIRE OR
BLOCK WIRE TO TOP OF CON-
NECTING BLOCK

SLACK FOR AERIAL DROP OR
BLOCK WIRE ENTERING RIGHT
SIDE OF CLOSURE

ENTRY GROMMETS

FIGURE 31B

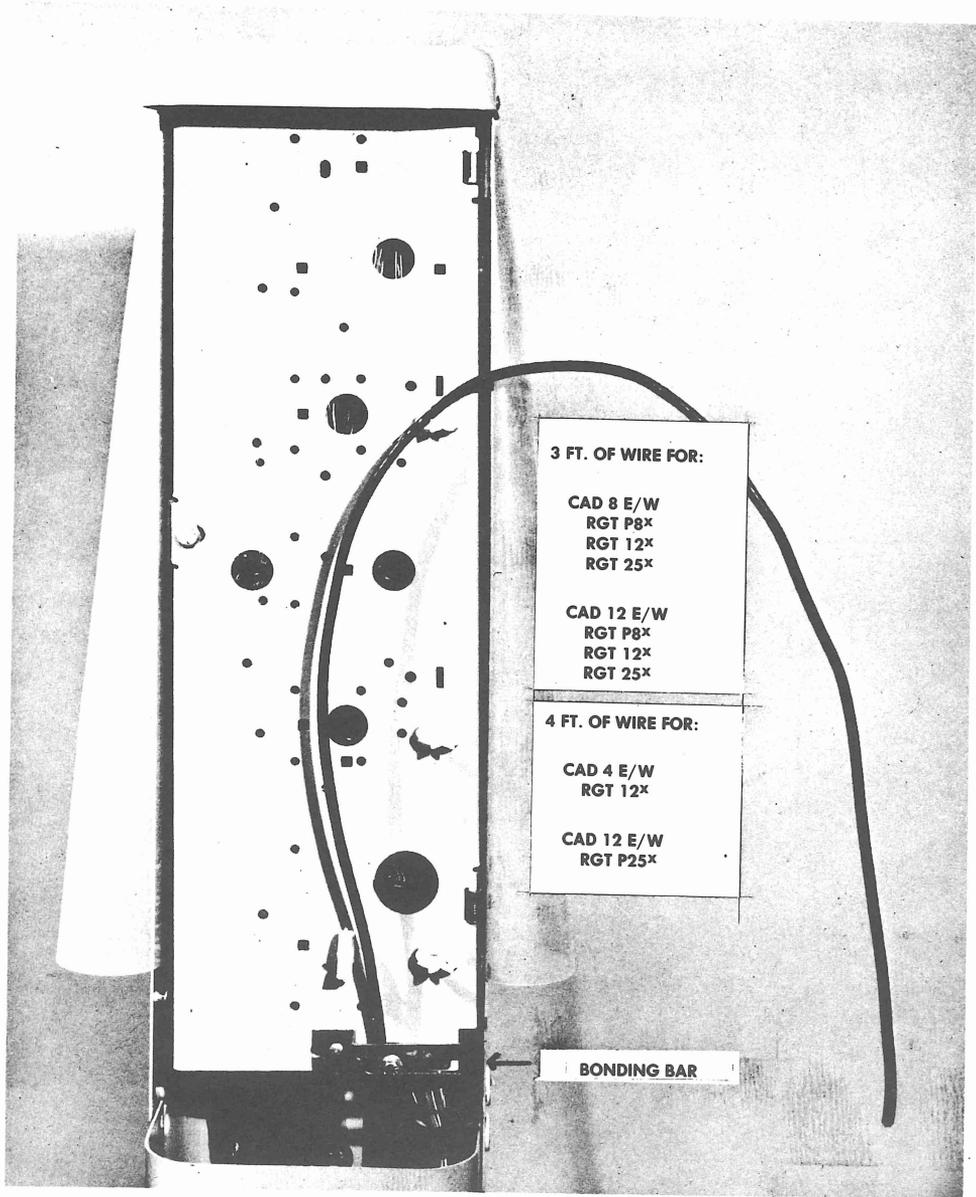


FIGURE 32

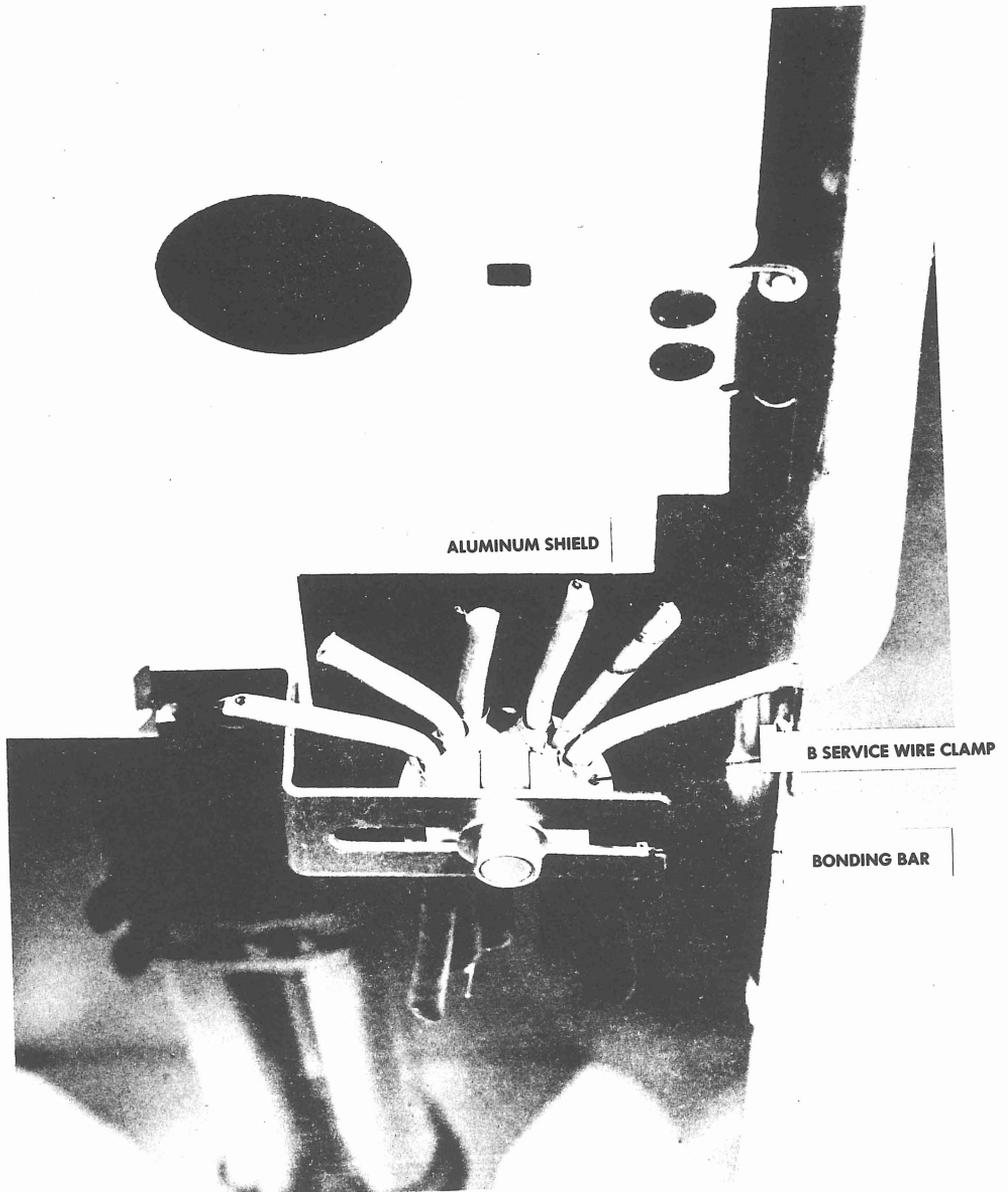


FIGURE 33

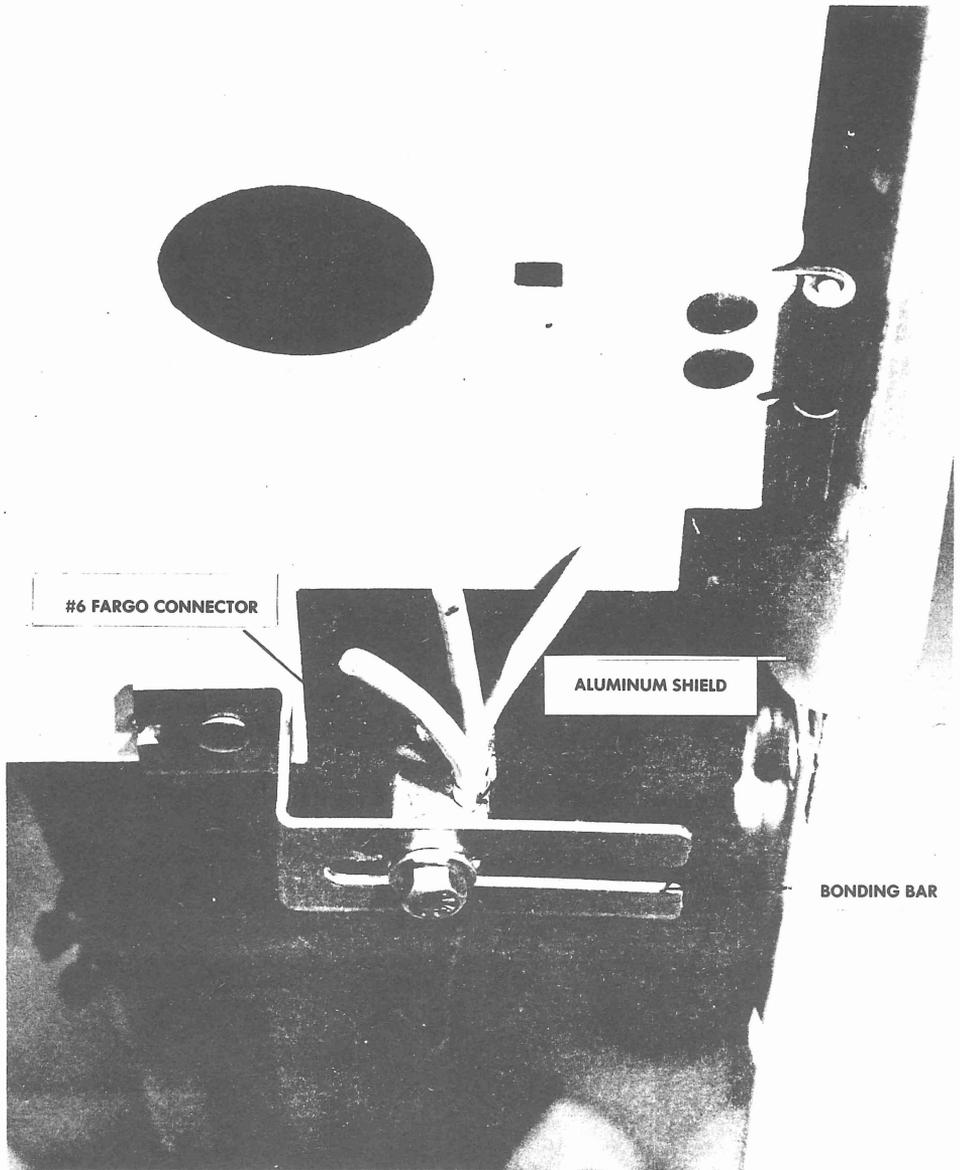


FIGURE 33A

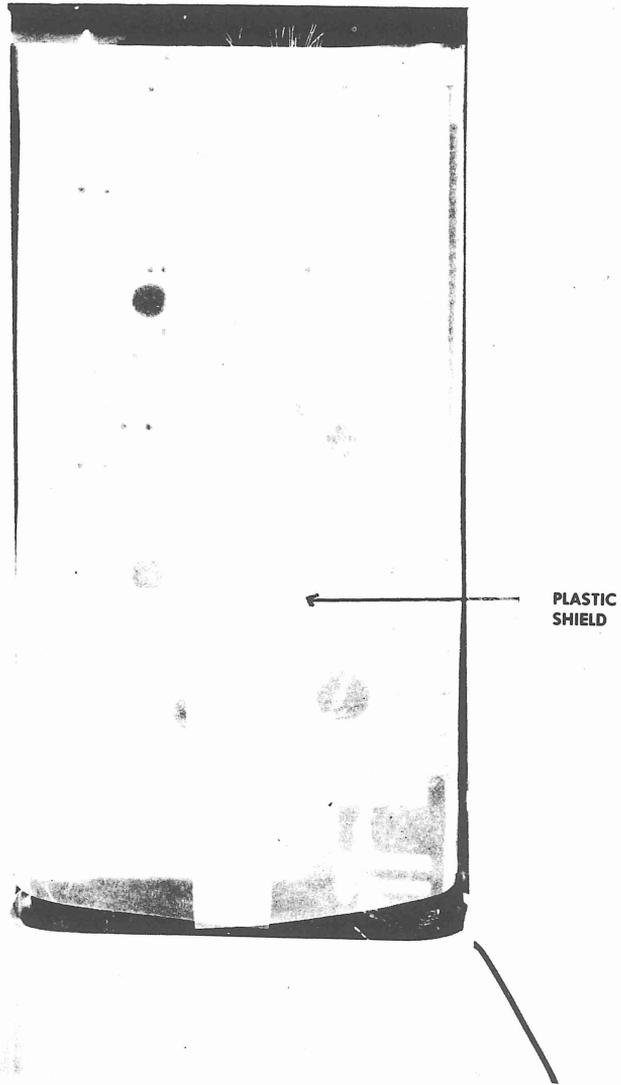


FIGURE 34

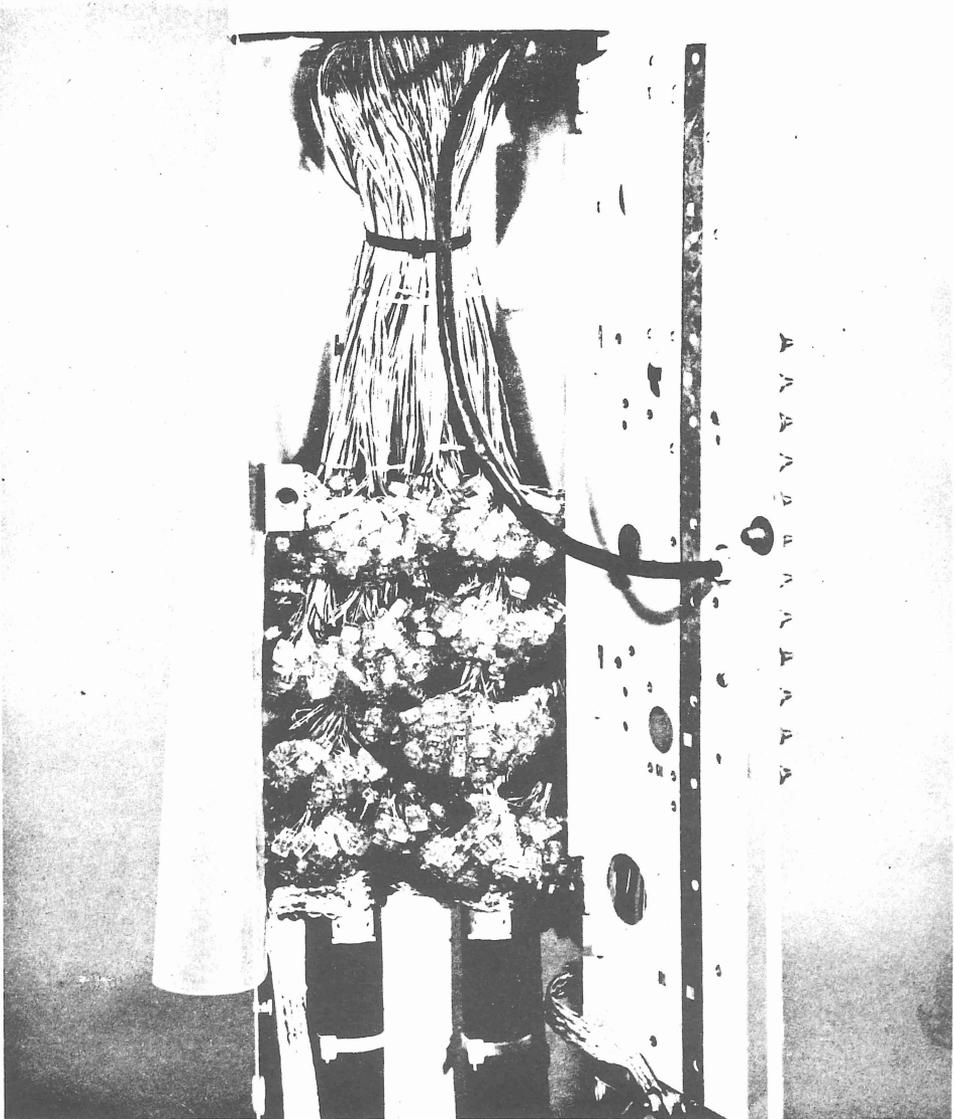


FIGURE 35

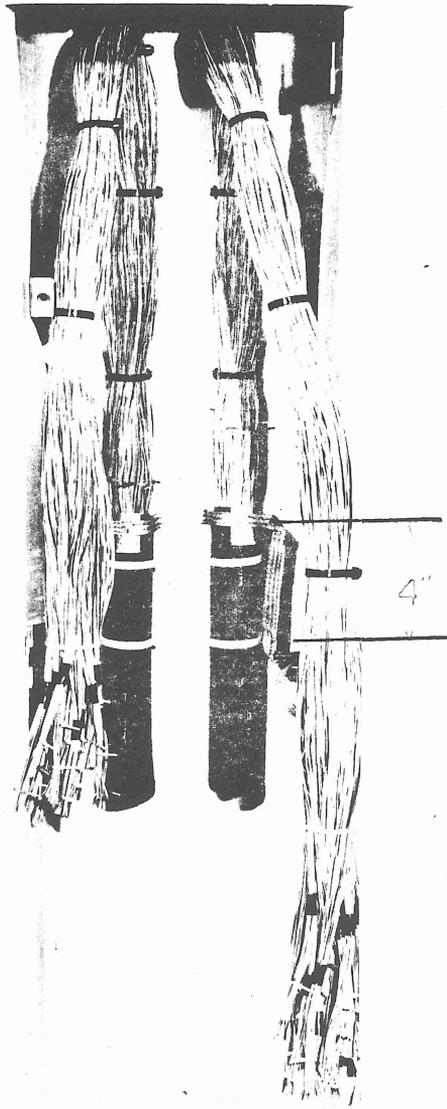


FIGURE 36

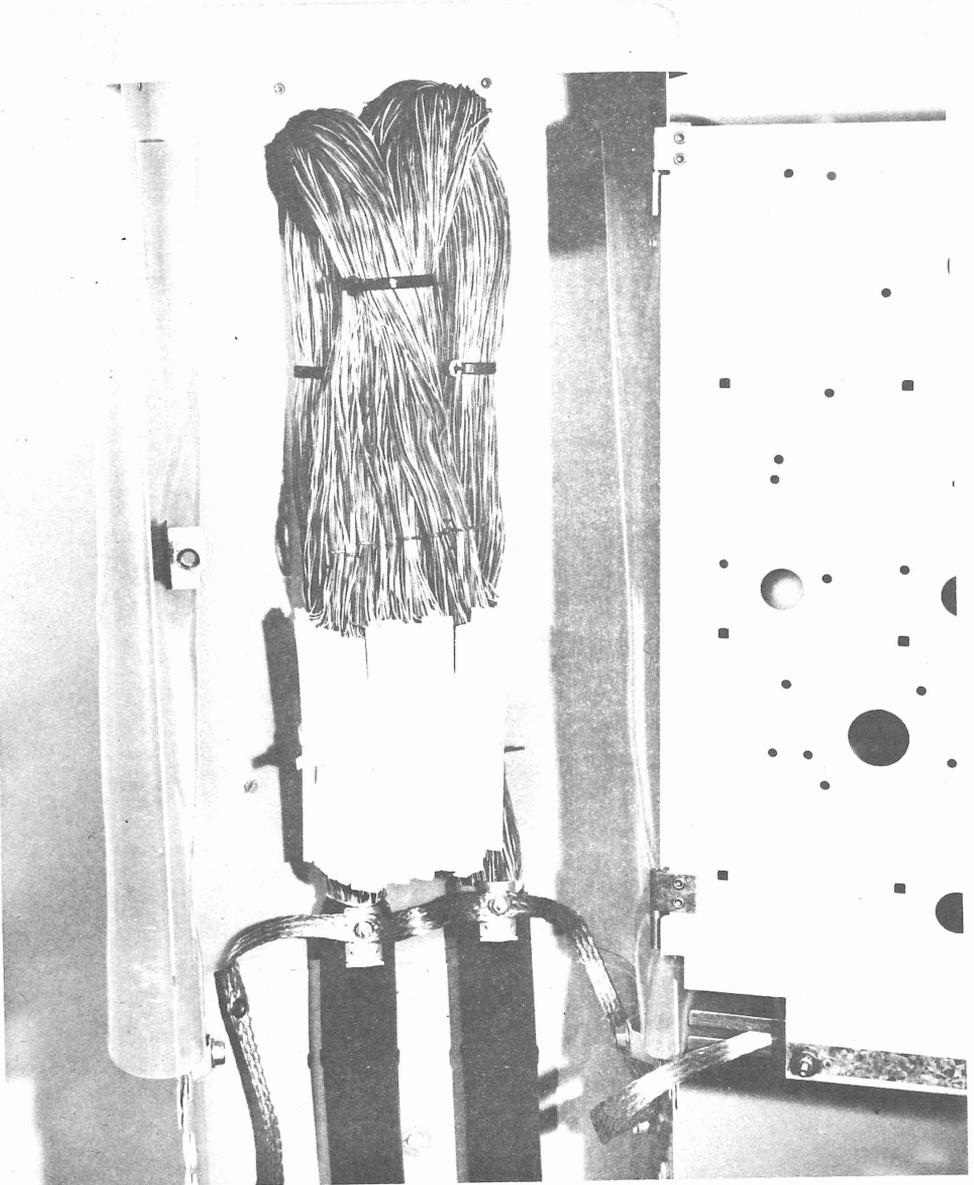


FIGURE 37

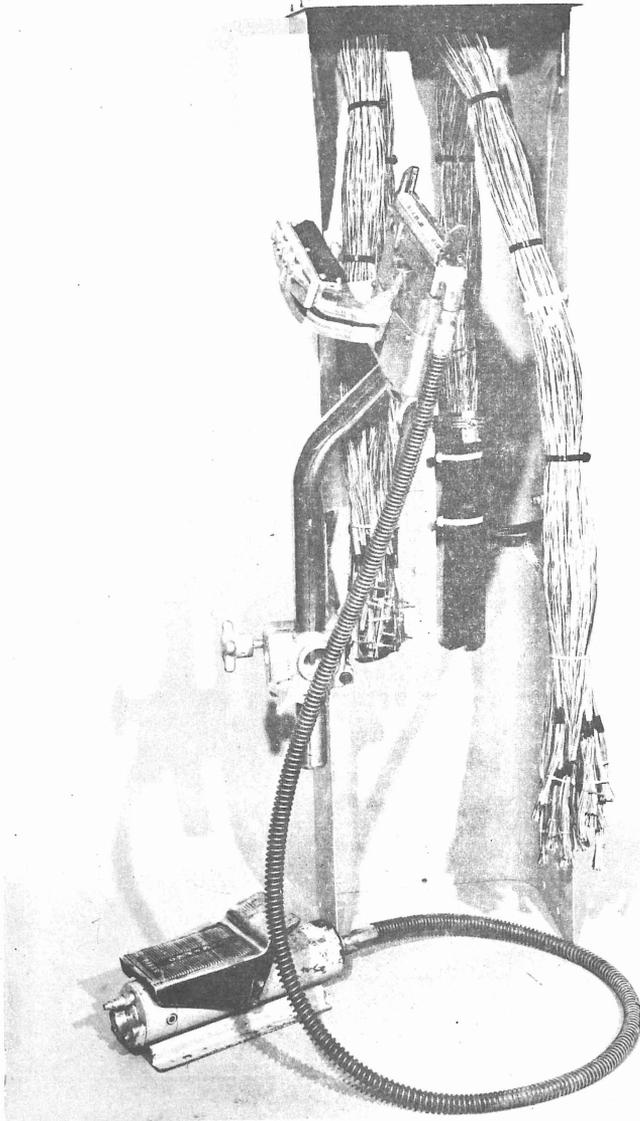


FIGURE 38

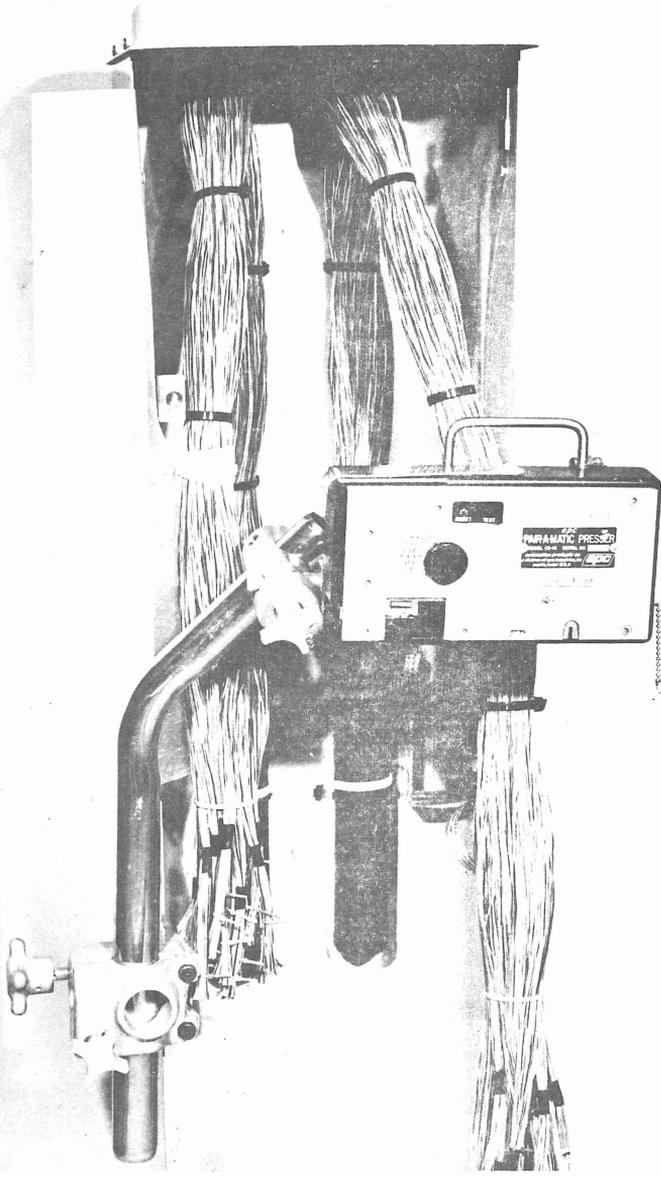


FIGURE 39