

LASHED AERIAL CABLE ARRANGEMENT OF SUPPORTS

1. GENERAL

1.01 This section covers the arrangement of permanent supports on lashed and self-supporting aerial cable.

1.02 This section is reissued to:

- Standardize the location of aerial cable sheath openings
- Delete information on self-supporting cable
- Revise method of dead ending cable
- Delete information on 1-type closures
- Delete information on 104-type cable terminals.

Since this is a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 If no splice is present and it is possible to lash past the pole, supports and spacers may be omitted on cables weighing 2.3 pounds per foot or less.

1.04 At sheath opening locations other than for 49- or 105-type terminals:

- (1) Temporarily terminate the lashing wire.
- (2) Support the unlash portion of cable with temporary ties of houseline, lashing wire, or other suitable material.
- (3) After work operations have been completed, install lashed cable supports in accordance with this section.

1.05 When it is necessary to cut a lashing wire, secure the wire to the strand with a D lashing wire grip before cutting.

1.06 When the cable is to be supported permanently, lashed cable supports and spacers should be used. If greater clearance is needed, use B lashed cable supports with wire hangers as covered in Section 627-340-101.

1.07 For arrangement of supports for self-supporting cable, see Section 627-700-014.

2. ARRANGEMENT OF SUPPORTS

2.01 The arrangements described in this section are designed to hold the cable in a smooth curve and to keep it away from contact with hardware and abrasion points.

Note: When conditions not covered by this section occur, support the cable in a smooth curve free from contact with hardware and abrasion points.

2.02 The illustrations listed in Table A show the C lashed cable support unless otherwise noted; however, B lashed cable supports may be installed, if desired. (See Section 627-340-101.)

Note: The C lashed cable support should not be used on sleeves greater than 2-1/2 inches in diameter or on cables heavier than 8 pounds per foot.

NOTICE

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

TABLE A

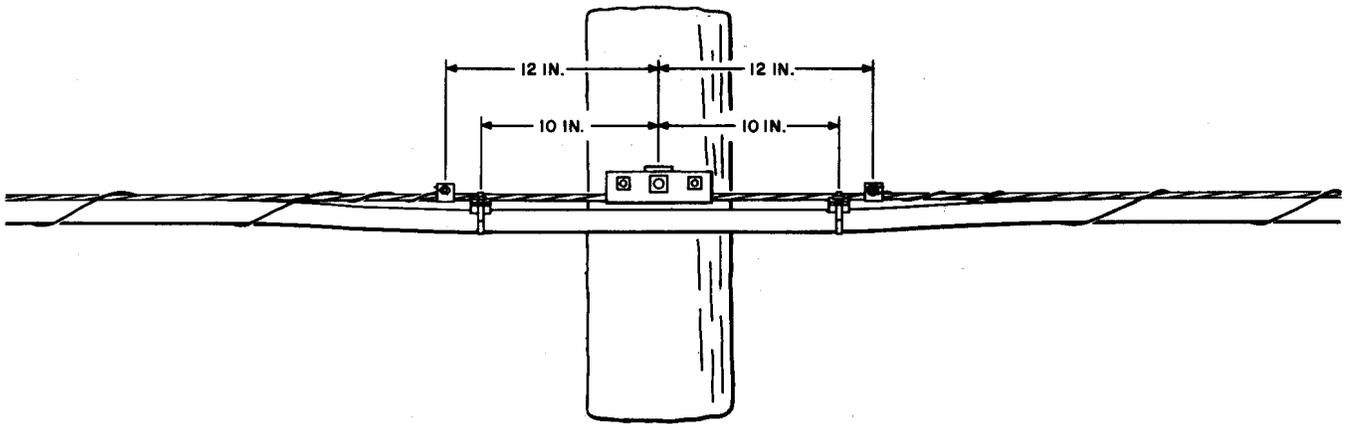
ILLUSTRATION REFERENCE

APPLICATION	FIG. NO.	ILLUSTRATION
IN-LINE POLES AND CORNER POLES	1	Arrangement of Supports at In-Line Poles and at Corner Poles With Pulls Not More Than 10 Feet on 6M or 6.6M Strand and Not More Than 5 Feet on 10M, 16M, and 25M Strand
	2,3, and 4	Arrangement of Supports at Corner Poles With Pulls Greater Than 10 Feet on 6M or 6.6M Strand and Greater Than 5 Feet on 10M, 16M, and 25M Strand
POLE STRAND CONNECTOR	5	Pole Strand Connector —6M, 6.6M, and 10M Strand (Separation Less Than 1 Inch)
	6	Pole Strand Connector —6M, 6.6M, and 10M Strand (Separation Greater Than 1 Inch)
TWO CABLES LASHED TO A SINGLE SUSPENSION STRAND	7	Two Cables Lashed With Single Lashing Wire
	8	New Cable Lashed to Existing Strand and Cable
FALSE DEAD ENDS	9	B False Dead End
	10	Strandwise False Dead End
	11	False Dead End Using Guy Clamps (6M, 6.6M, 10M, and 16M Strand).
	12	False Dead End Using Guy Clamps (25M Strand)
	13	False Dead End Using Guy Clamps and Pole Strand Connector (25M Strand)
DEAD-END POLES	14	Dead-End Pole
	15	Dead-End Pole Using Guy Clamps (6M, 6.6M, and 10M Strand)
SPLICE CASES AND LEAD SLEEVES	16	Splice in Midspan
	17	Splice in Span (Less Than 10 Feet From Pole or Crossover).
	18	Splice at Dead-End Pole (B Strand Grip)
	19	Splice at Dead-End Pole (Strandwise)
	20	Branch Splice
	21	Aerial Crossover

TABLE A (Contd)

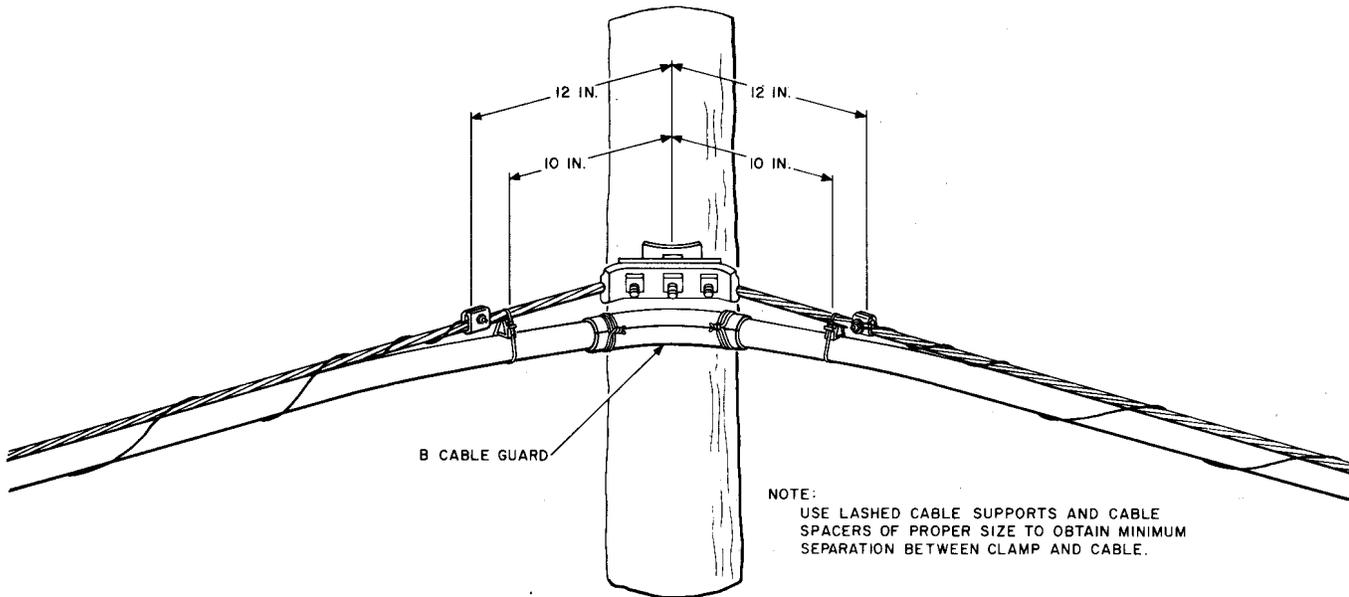
ILLUSTRATION REFERENCE

APPLICATION	FIG. NO.	ILLUSTRATION
STRAND-MOUNTED N-TYPE CABLE TERMINALS	22	In-Line Pole
	23	Dead-End Pole
49-TYPE CABLE TERMINALS	24	In-Line Pole
	25	Dead-End Pole
	26	Two Cables Lashed to Single Strand
105-TYPE CABLE TERMINALS	27	In-Line Pole
	28	Dead-End Pole
	29	Two Cables Lashed to Single Strand
1A1, 1B1, AND 1C1 TERMINAL STUBS	30	In-Line Pole
6-TYPE CABLE CLOSURE	31	6C1 Cable Closure (In-Line Splice)
	32	6D1 Cable Closure (In-Line Splice)
18-TYPE CABLE CLOSURE	33	Branch Splice
	34	Lateral Pole
	35	Dead-End Pole
COIL CASES	36	Pole Mounted
	37	Strand Mounted
	38	Strand Mounted (Alternate Method)
H LOADING FIXTURE	39	Arrangement of Supports



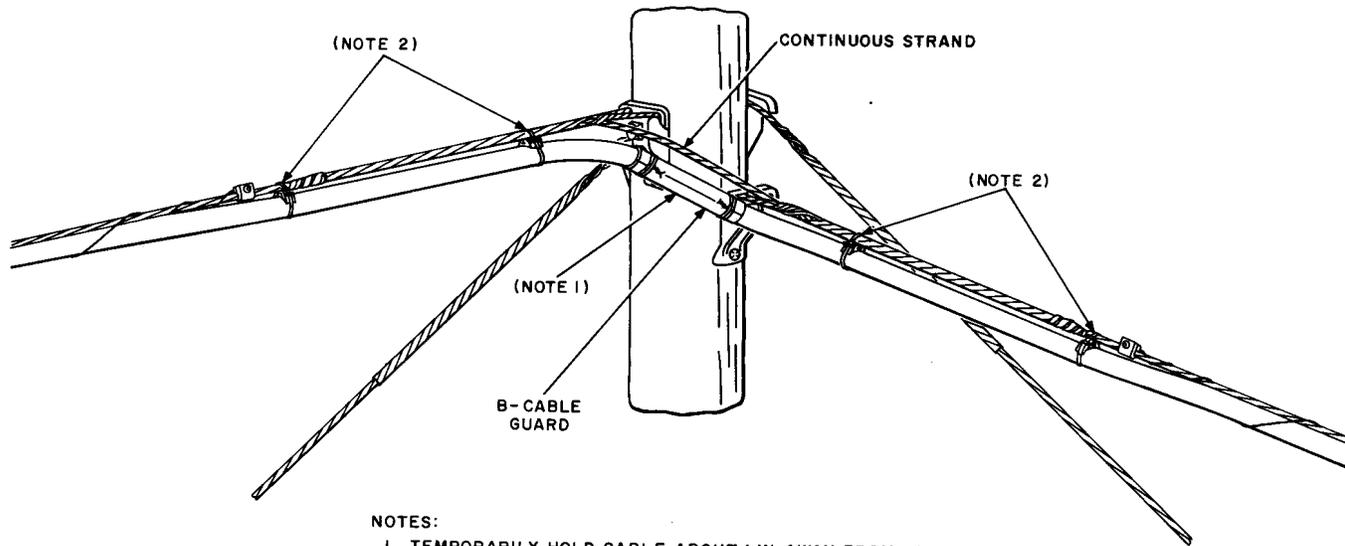
NOTE:
USE LASHED CABLE SUPPORTS AND CABLE SPACERS
OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION
BETWEEN CLAMP AND CABLE.

Fig. 1—In-Line Pole or Corner Pole With Pulls Not More Than 10 Feet on 6M or 6.6M Strand and Not More Than 5 Feet on 10M, 16M, and 25M Strand



NOTE:
USE LASHED CABLE SUPPORTS AND CABLE
SPACERS OF PROPER SIZE TO OBTAIN MINIMUM
SEPARATION BETWEEN CLAMP AND CABLE.

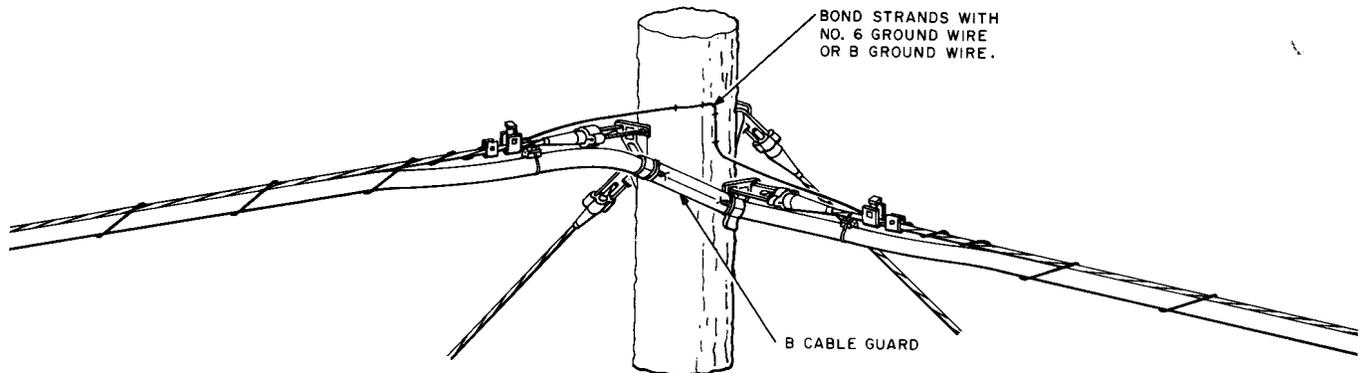
Fig. 2—Corner Poles With Pulls Greater Than 10 Feet on 6M or 6.6M Strand and Greater Than 5 Feet on 10M, 16M, and 25M Strand



NOTES:

1. TEMPORARILY HOLD CABLE ABOUT 1 IN. AWAY FROM POLE UNTIL SPAN ON EACH SIDE IS LASHED AND SUPPORTS HAVE BEEN PLACED.
2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE.

Fig. 3—Corner Pole Dead Ended Both Ways With B Strand Grip



NOTES:

1. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE.
2. TEMPORARILY HOLD CABLE ABOUT 1 IN. AWAY FROM POLE UNTIL SPAN ON EACH SIDE IS LASHED AND SUPPORTS HAVE BEEN PLACED.

Fig. 4—Corner Pole Dead Ended Both Ways With Strandvises

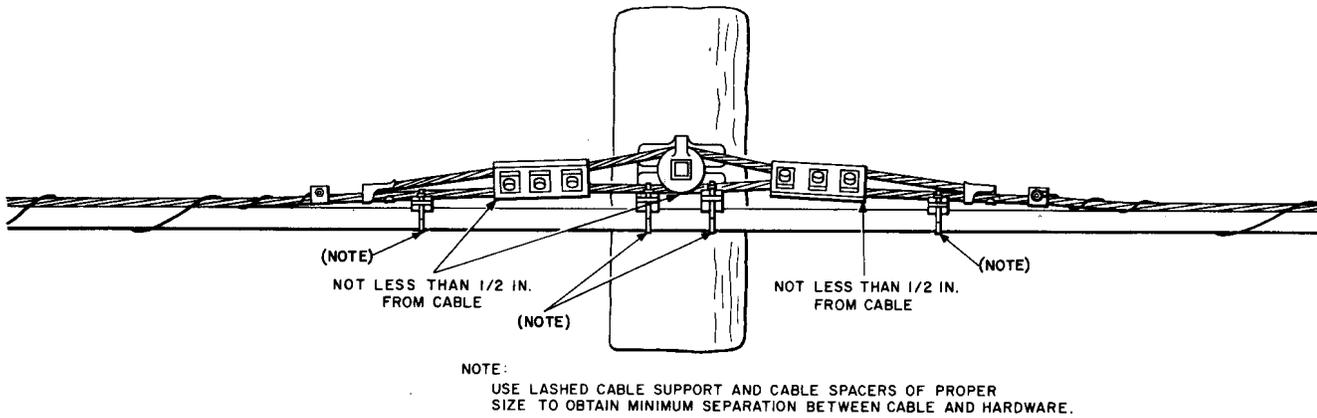
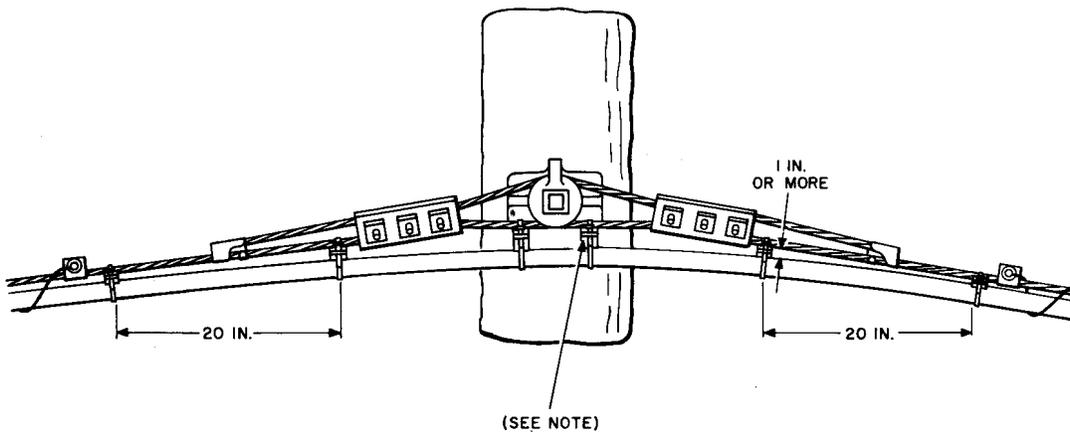


Fig. 5—Pole Strand Connector—6M, 6.6M, and 10M Strand (Separation Less Than 1 Inch)



NOTE:
WHERE SEPARATION BETWEEN STRAND AND CABLE IS MORE THAN 2-1/2 IN.
AT THIS POINT USE B LASHED CABLE SUPPORT WITH WIRE HANGER
IN PLACE OF CABLE SPACER. CABLE SHOULD HAVE LONG SMOOTH
CURVE BETWEEN OUTER SUPPORTS.

Fig. 6—Pole Strand Connector—6M, 6.6M, and 10M Strand (Separation Greater Than 1 Inch)

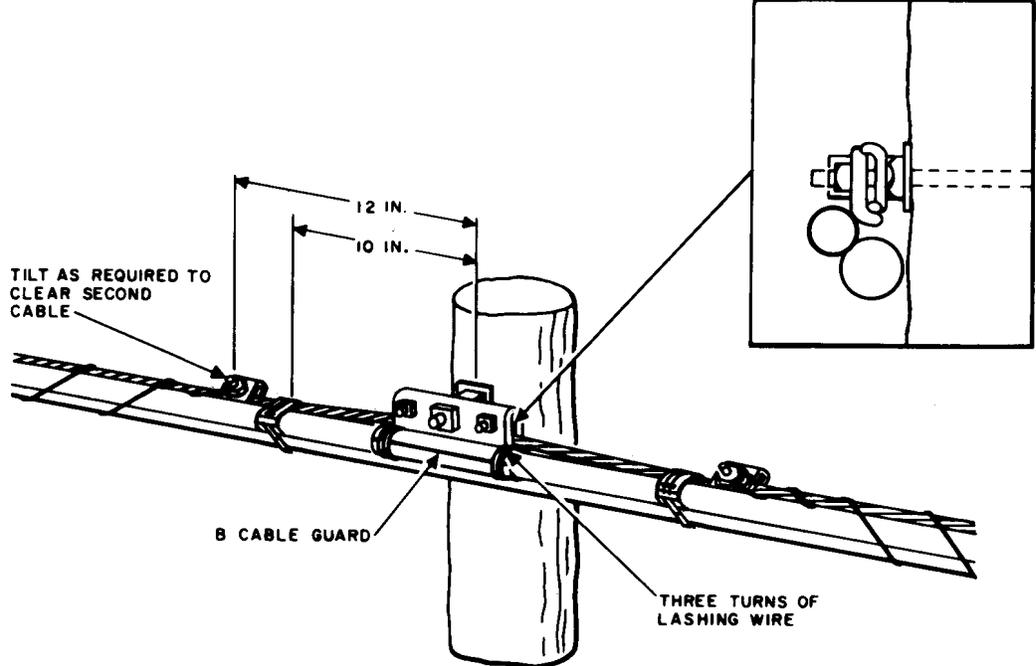


Fig. 7—Two Cables Lashed With a Single Lashing Wire

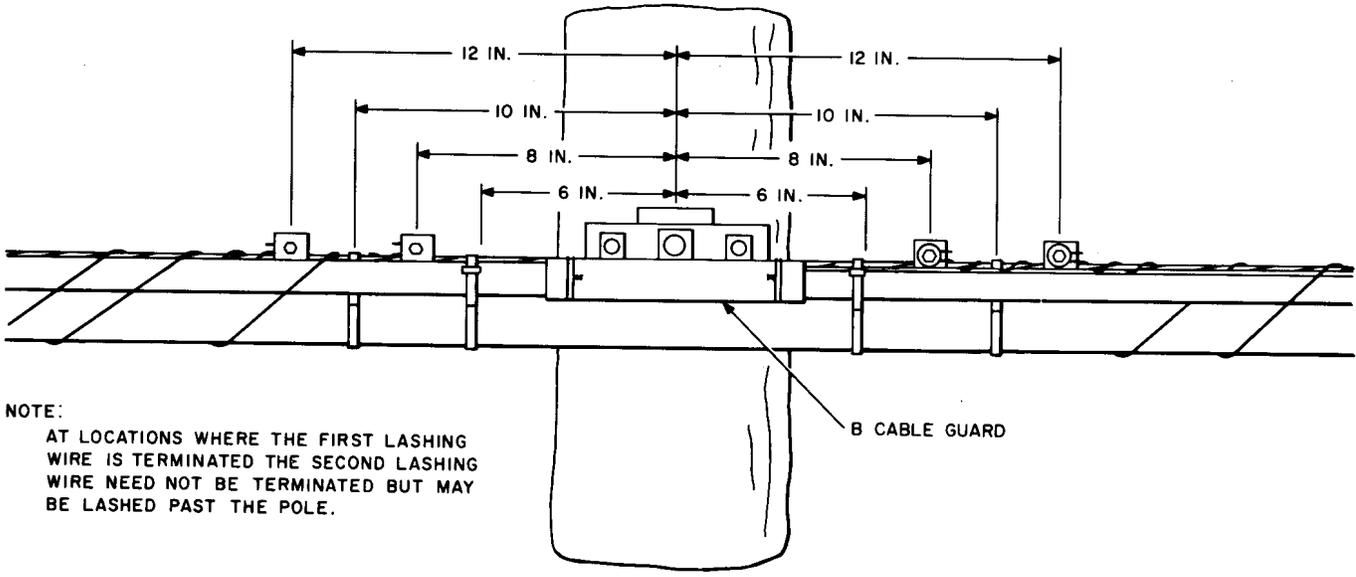
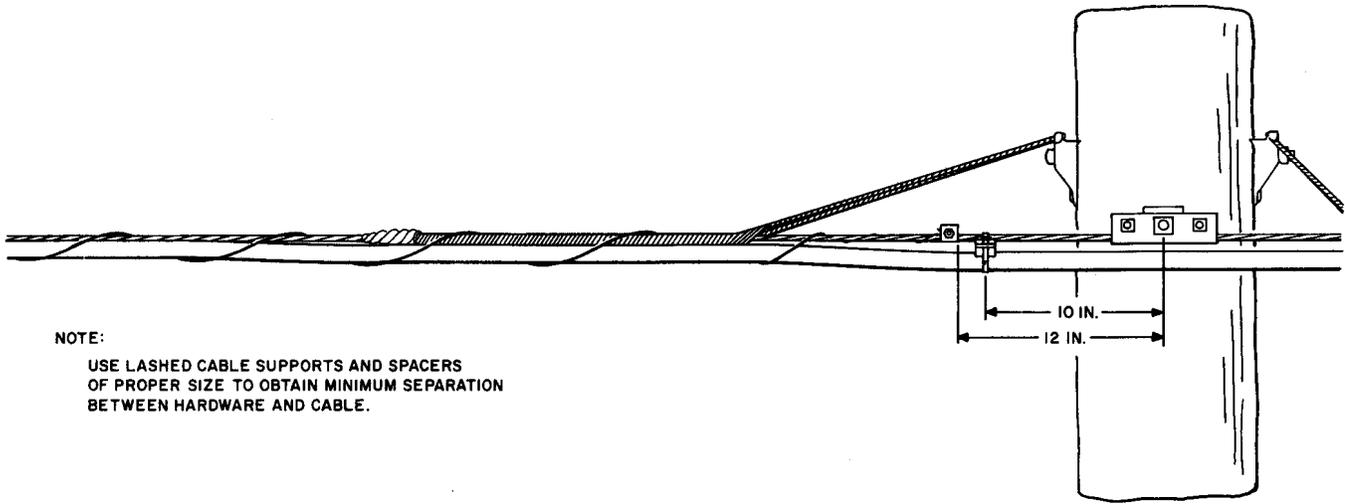
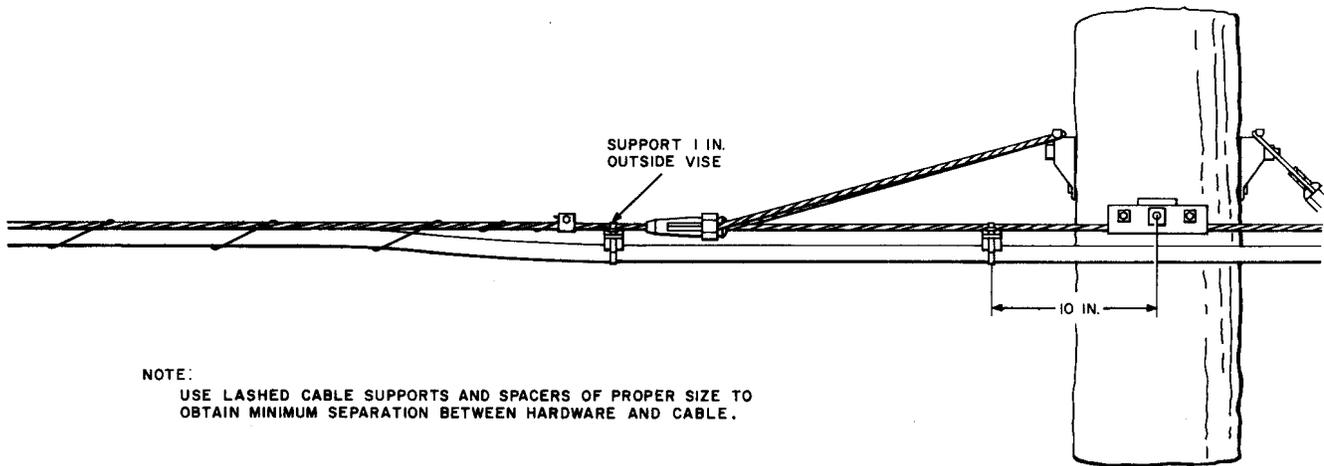


Fig. 8—New Cable Lashed to Existing Strand and Cable



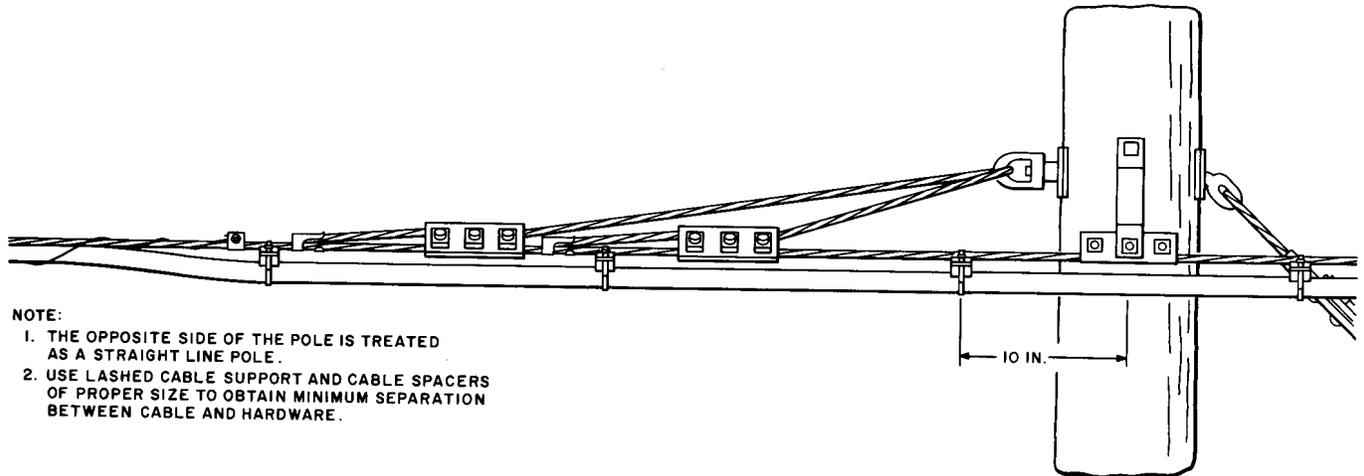
NOTE:
USE LASHED CABLE SUPPORTS AND SPACERS
OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION
BETWEEN HARDWARE AND CABLE.

Fig. 9—Arrangement of Supports at B False Dead End



NOTE:
USE LASHED CABLE SUPPORTS AND SPACERS OF PROPER SIZE TO
OBTAIN MINIMUM SEPARATION BETWEEN HARDWARE AND CABLE.

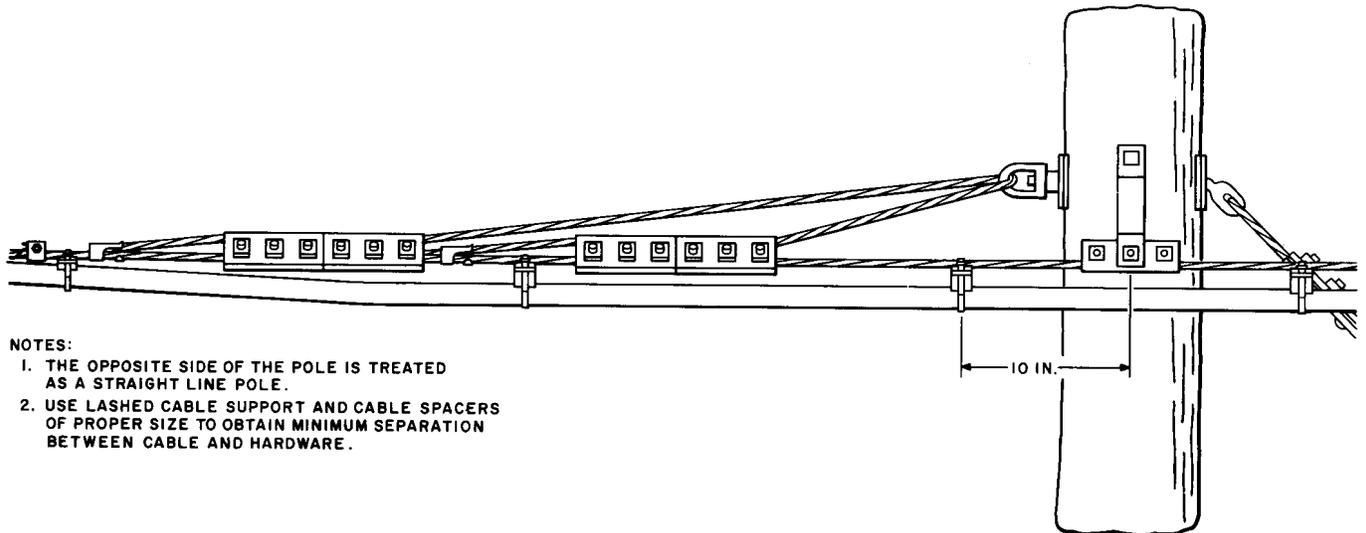
Fig. 10—Arrangement of Supports at False Dead-End Strandwise



NOTE:

1. THE OPPOSITE SIDE OF THE POLE IS TREATED AS A STRAIGHT LINE POLE.
2. USE LASHED CABLE SUPPORT AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE.

Fig. 11—False Dead End Using Guy Clamps (6M, 6.6M, 10M, and 16M Strand)



NOTES:

1. THE OPPOSITE SIDE OF THE POLE IS TREATED AS A STRAIGHT LINE POLE.
2. USE LASHED CABLE SUPPORT AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE.

Fig. 12—False Dead End Using Guy Clamps (25M Strand)

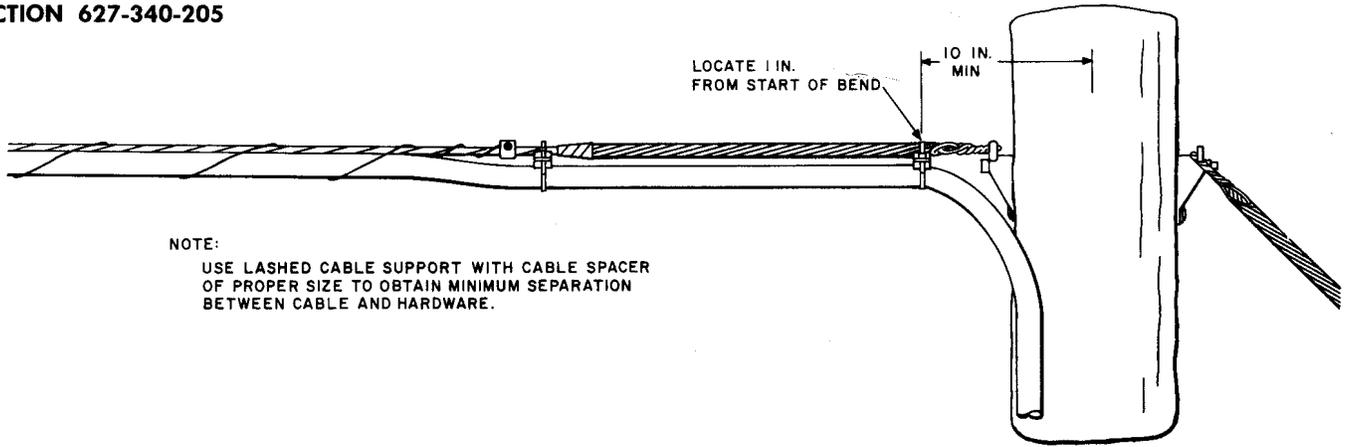


Fig. 13—False Dead End Using Guy Clamps and Pole Strand Connector (25M Strand)

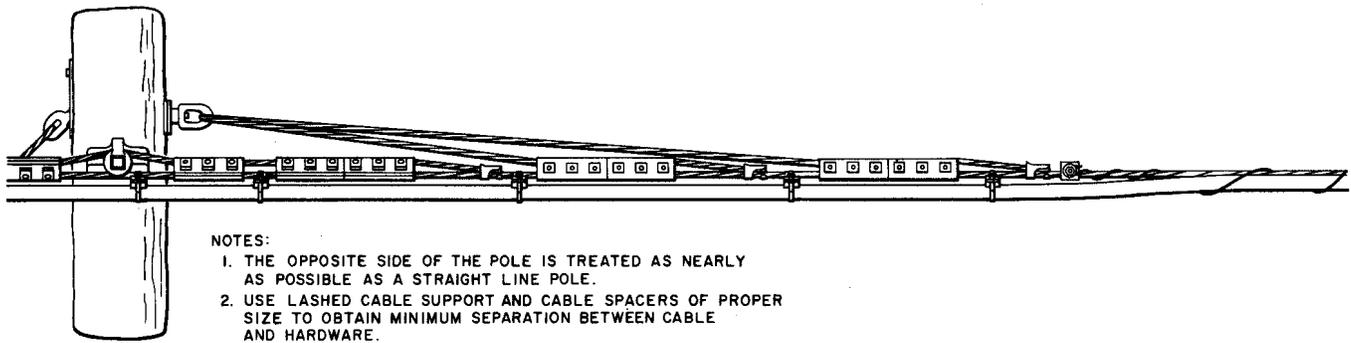


Fig. 14—Arrangement of Supports at Dead-End Pole

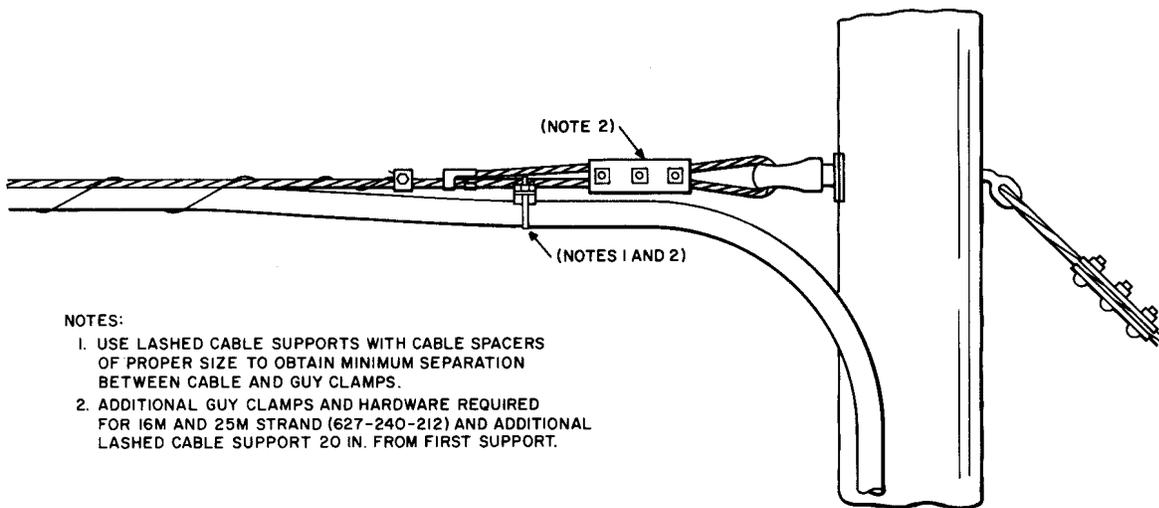


Fig. 15—Dead-End Pole Using Guy Clamps (6M, 6.6M, and 10M Strand)

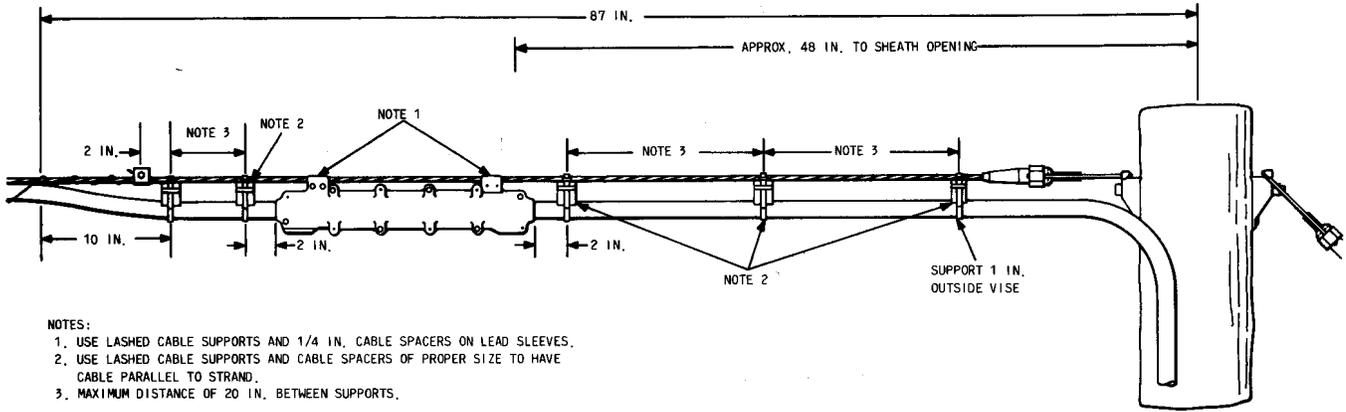


Fig. 19—Splice at Dead-End Pole (Strandwise)

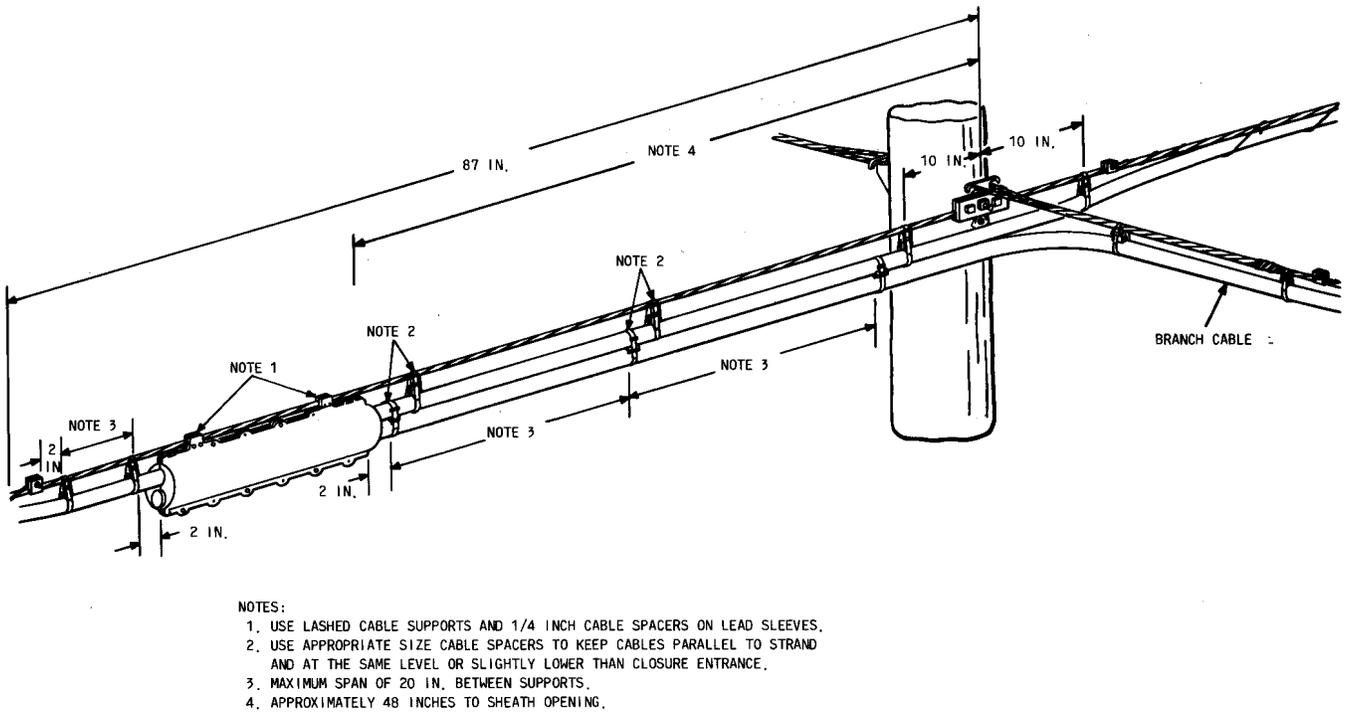
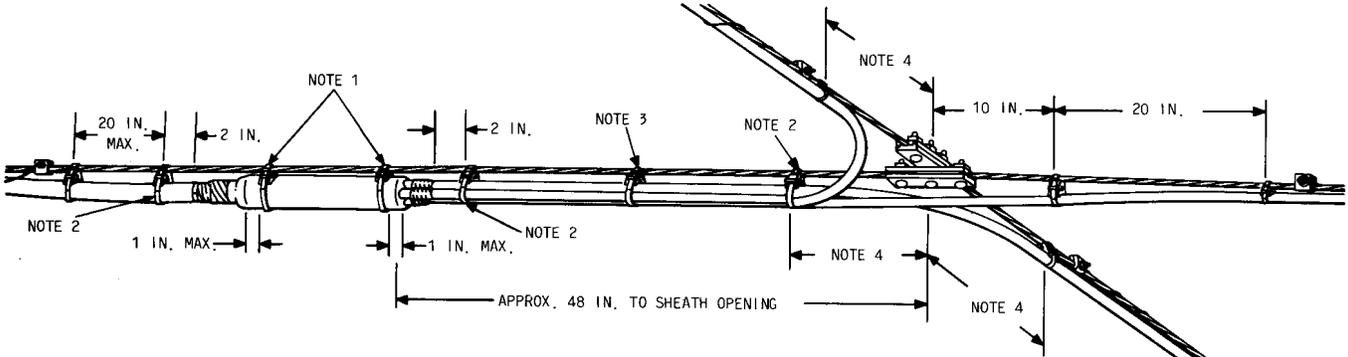
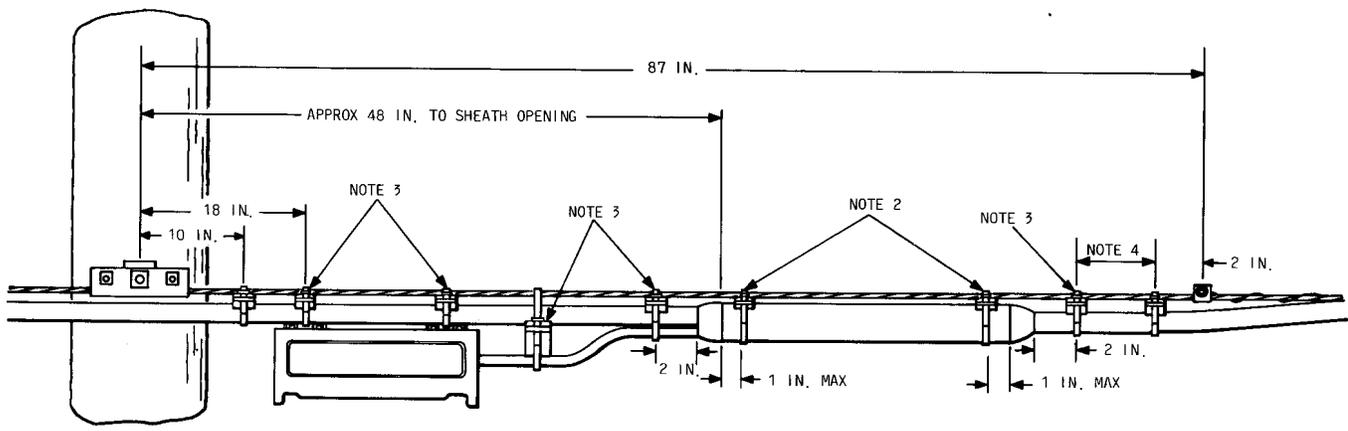


Fig. 20—Arrangement of Supports at a Branch Splice



- NOTES:
1. NO LASHED CABLE SUPPORTS ARE REQUIRED WITH SPLICE CASES.
 2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO HAVE CABLE PARALLEL TO STRAND.
 3. MAXIMUM SPAN OF 20 IN. BETWEEN SUPPORTS.
 4. LOCATE SUPPORTS AND SPACERS ON STRAIGHT PORTION OF CABLE 1 IN. FROM START OF BEND BUT NOT LESS THAN 10 INCHES FROM CROSSOVER BOLT.

Fig. 21—Arrangement of Supports at Aerial Crossover



- NOTES:
1. THE OPPOSITE SIDE OF THE POLE IS TREATED AS A STRAIGHT LINE POLE.
 2. USE LASHED CABLE SUPPORTS AND 1/4 IN. CABLE SPACERS ON LEAD SLEEVES.
 3. USE LASHED CABLE SUPPORT AND CABLE SPACER OF PROPER SIZE TO HAVE CABLE PARALLEL TO STRAND.
 4. 20 IN. MAXIMUM BETWEEN SUPPORTS.

Fig. 22—Strand Mounted N-Type Cable Terminal (In-Line Pole)

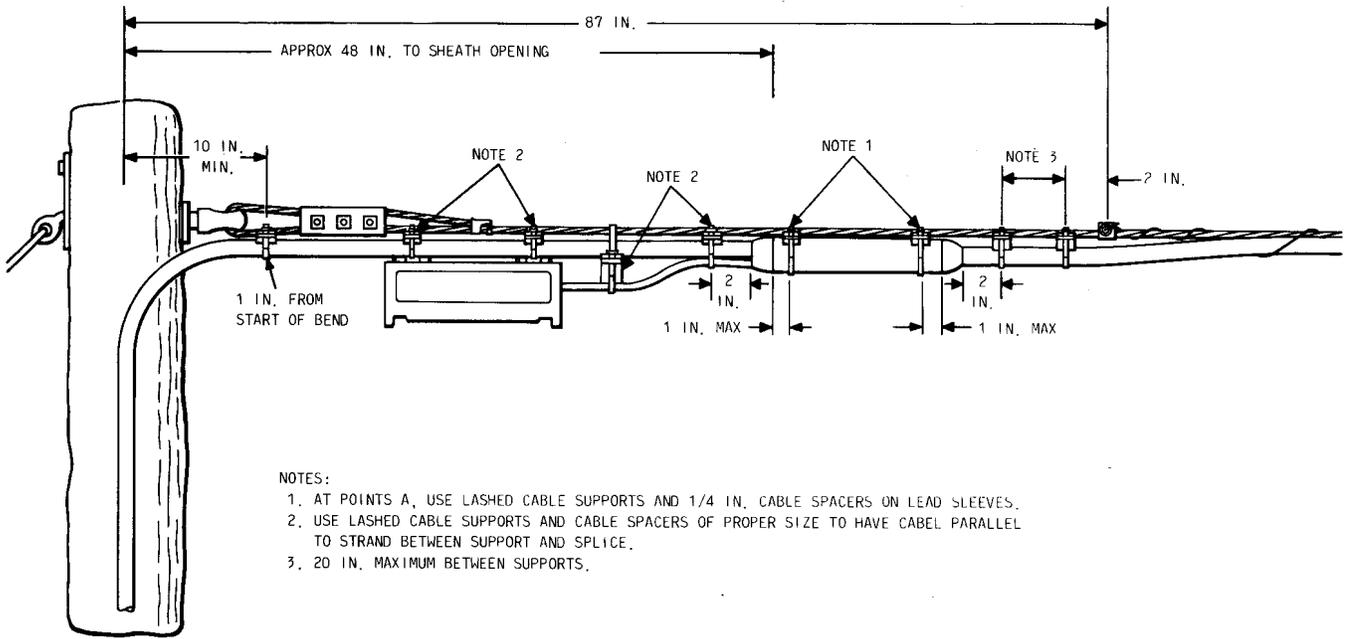


Fig. 23—Strand Mounted N-Type Cable Terminal (Dead-End Pole)

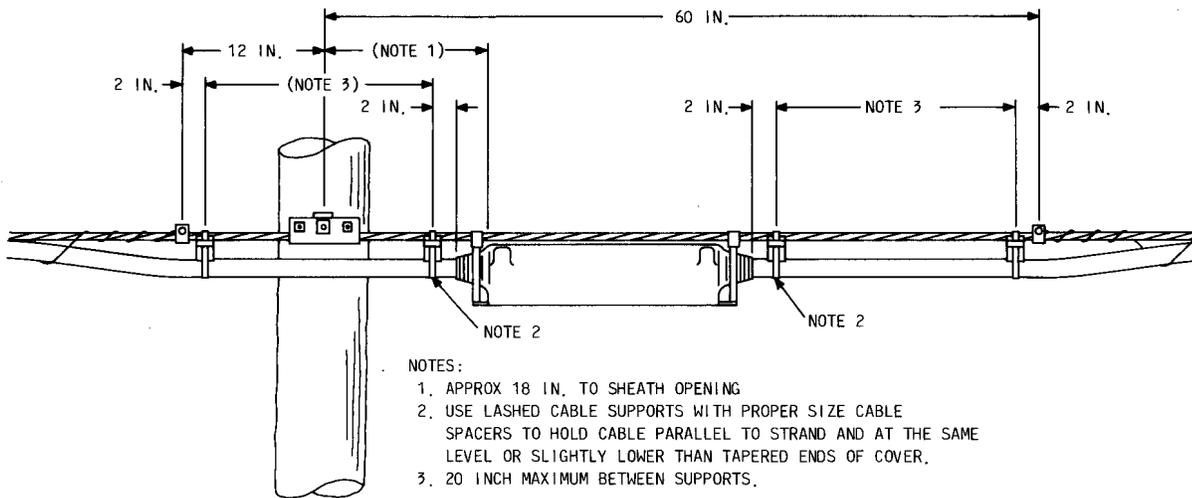
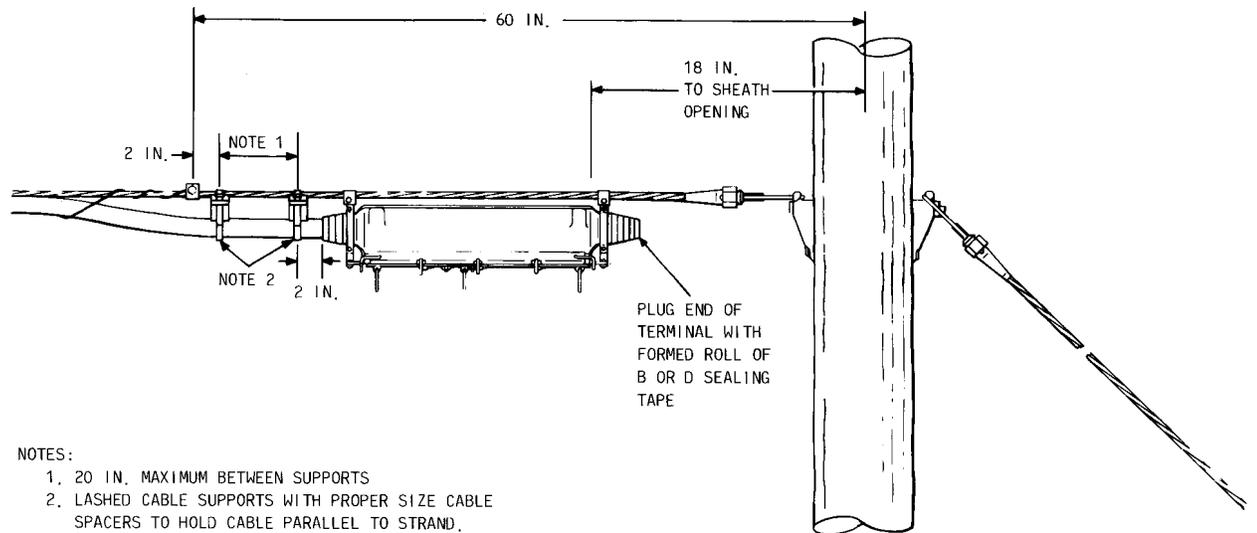
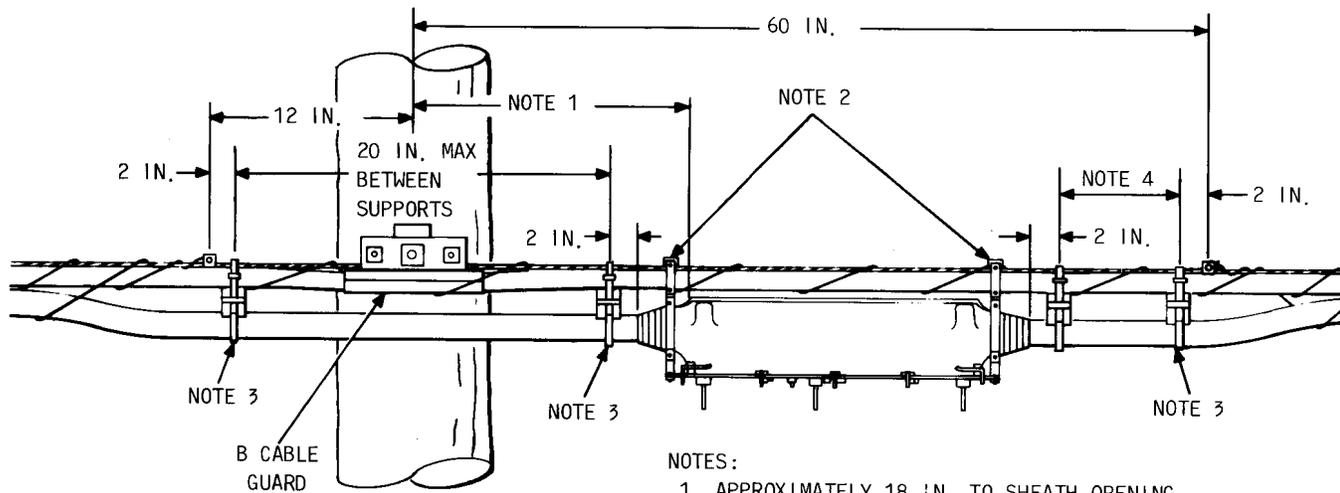


Fig. 24—49-Type Cable Terminal—In-Line Pole



- NOTES:
1. 20 IN. MAXIMUM BETWEEN SUPPORTS
 2. LASHED CABLE SUPPORTS WITH PROPER SIZE CABLE SPACERS TO HOLD CABLE PARALLEL TO STRAND.

Fig. 25—49-Type Cable Terminal—Dead-End Pole



- NOTES:
1. APPROXIMATELY 18 IN. TO SHEATH OPENING.
 2. NO. 1U CABLE GUARD STRAP. WHEN CABLE IS LARGER THAN 1-3/8 IN., CHANGE TO LARGER U CABLE GUARD STRAP
 3. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO HOLD LOWER CABLE PARALLEL TO UPPER CABLE.
 4. 20 IN. MAXIMUM BETWEEN SUPPORTS

Fig. 26—49-Type Cable Terminal—Two Cables Lashed to a Single Strand

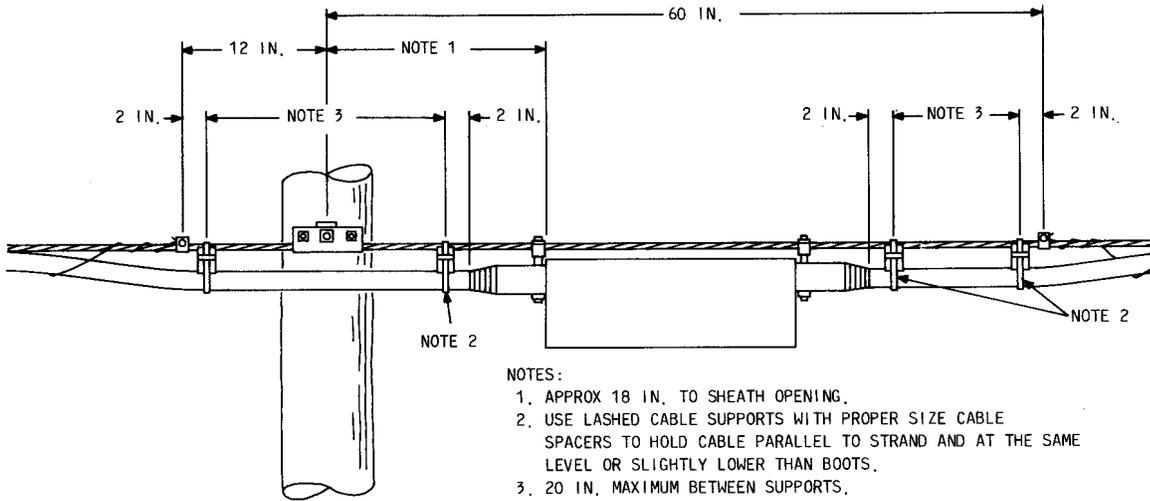


Fig. 27—105-Type Cable Terminal—In-Line Pole

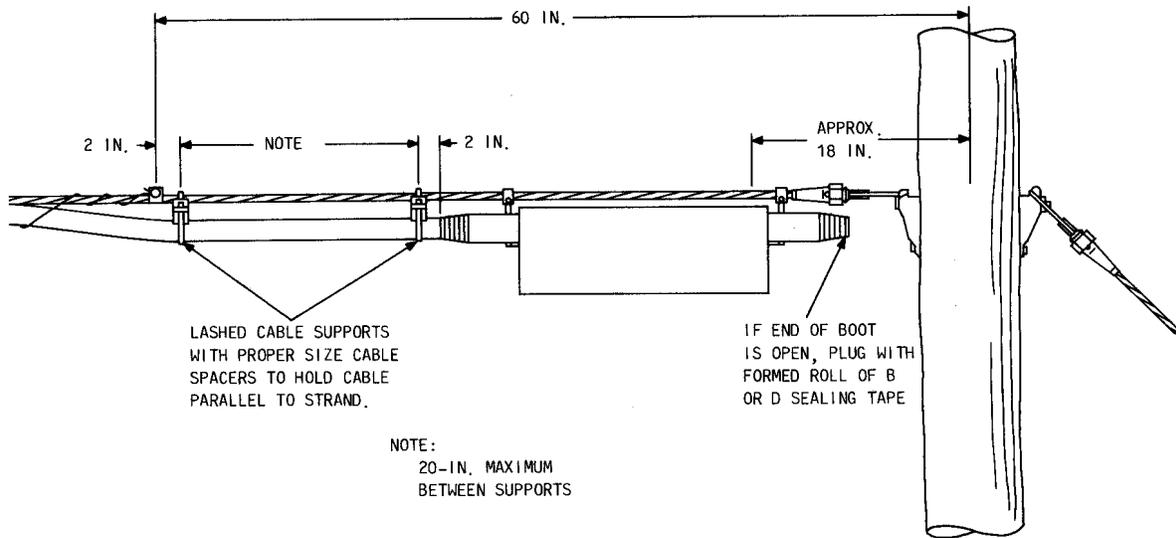


Fig. 28—105-Type Cable Terminal—Dead-End Pole

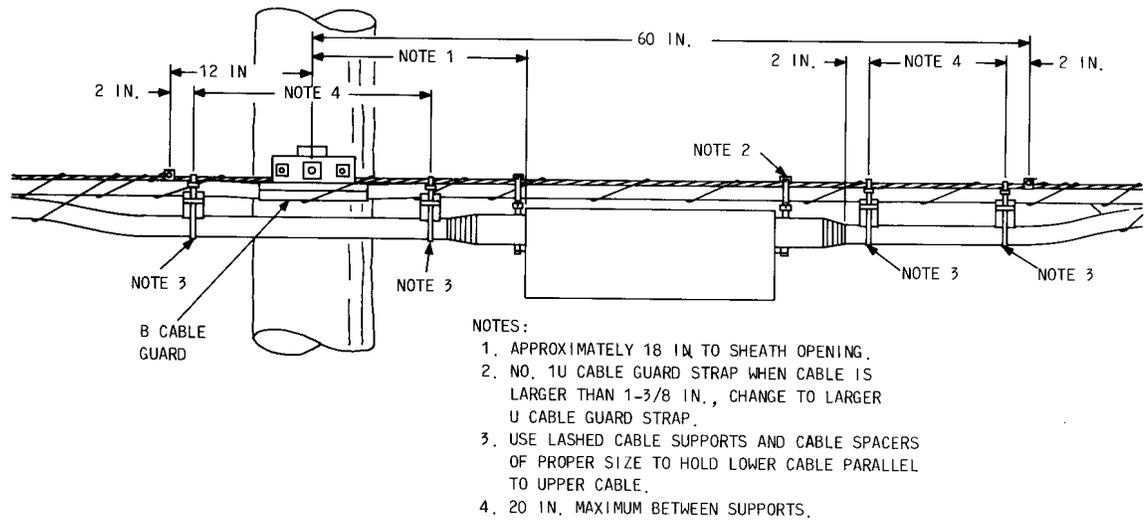


Fig. 29—105-Type Cable Terminal—Two Cables Lashed to a Single Strand

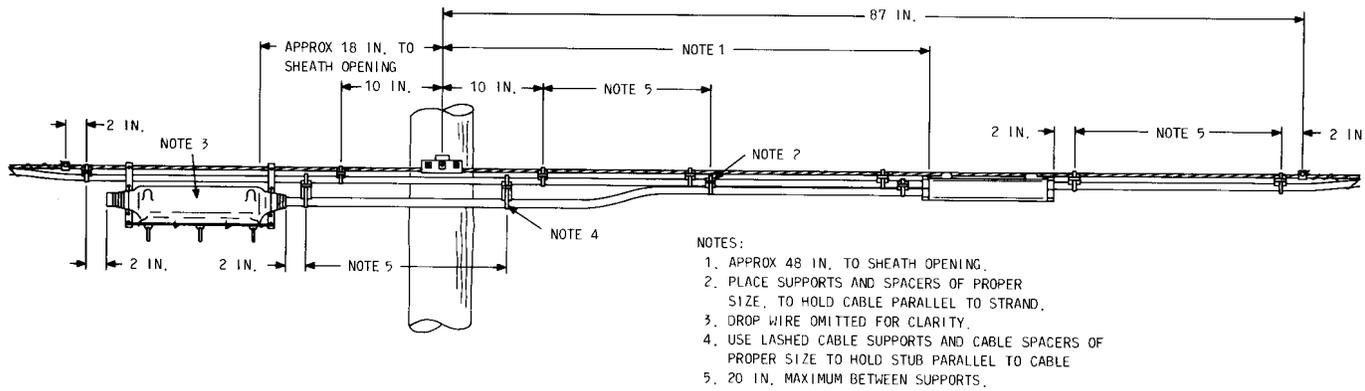
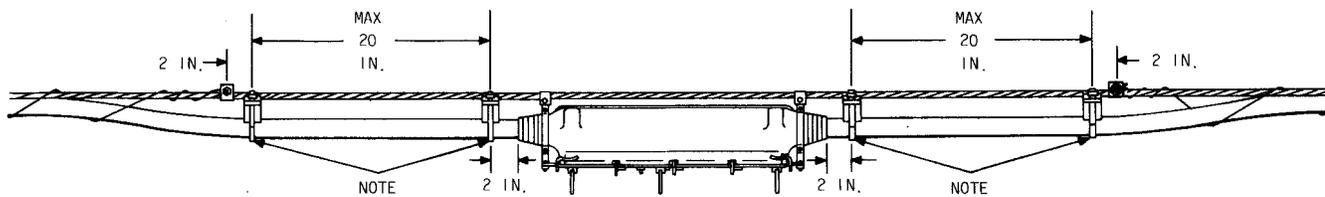
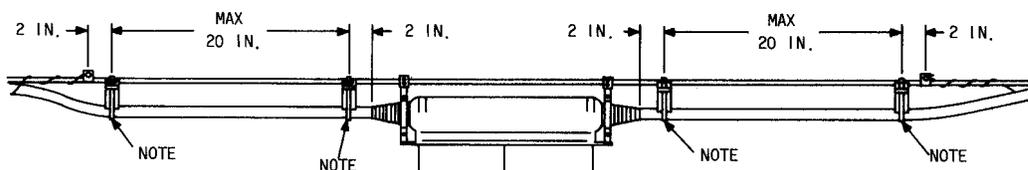


Fig. 30—Arrangement of Supports at 1A1, 1B1, or 1C1 Terminal Stub



NOTE:
 USE LASHED CABLE SUPPORTS AND CABLE SPACERS
 OF PROPER SIZE TO HOLD CABLE PARALLEL TO
 STRAND BETWEEN SUPPORTS AND CLOSURE.

Fig. 31—6C1 Cable Closure—In-Line Splice



NOTE:
 USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE
 TO HOLD CABLE PARALLEL TO STRAND BETWEEN SUPPORT AND TERMINAL.

Fig. 32—6D1 Cable Closure—In-Line Splice

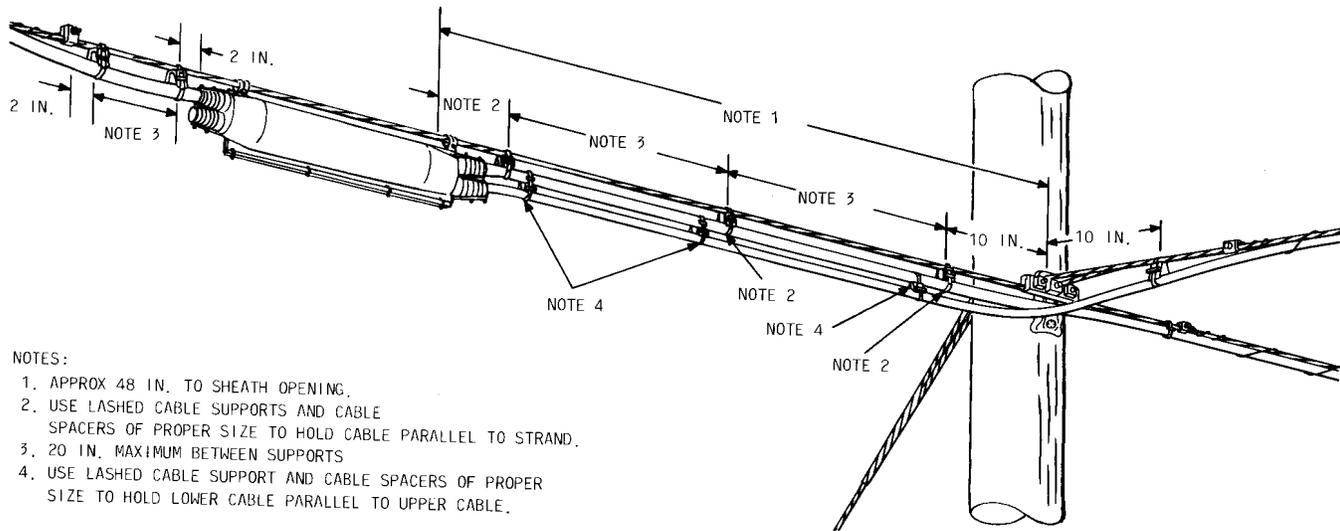


Fig. 33—18-Type Cable Closure—Branch Splice

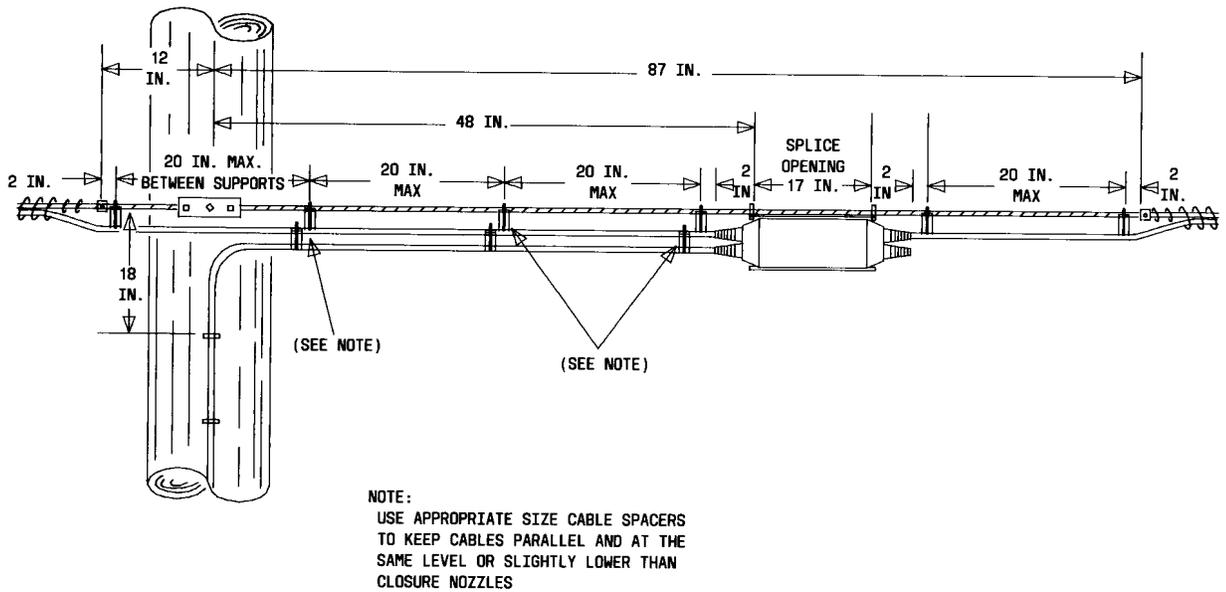


Fig. 34—18-Type Cable Closure—Lateral Pole

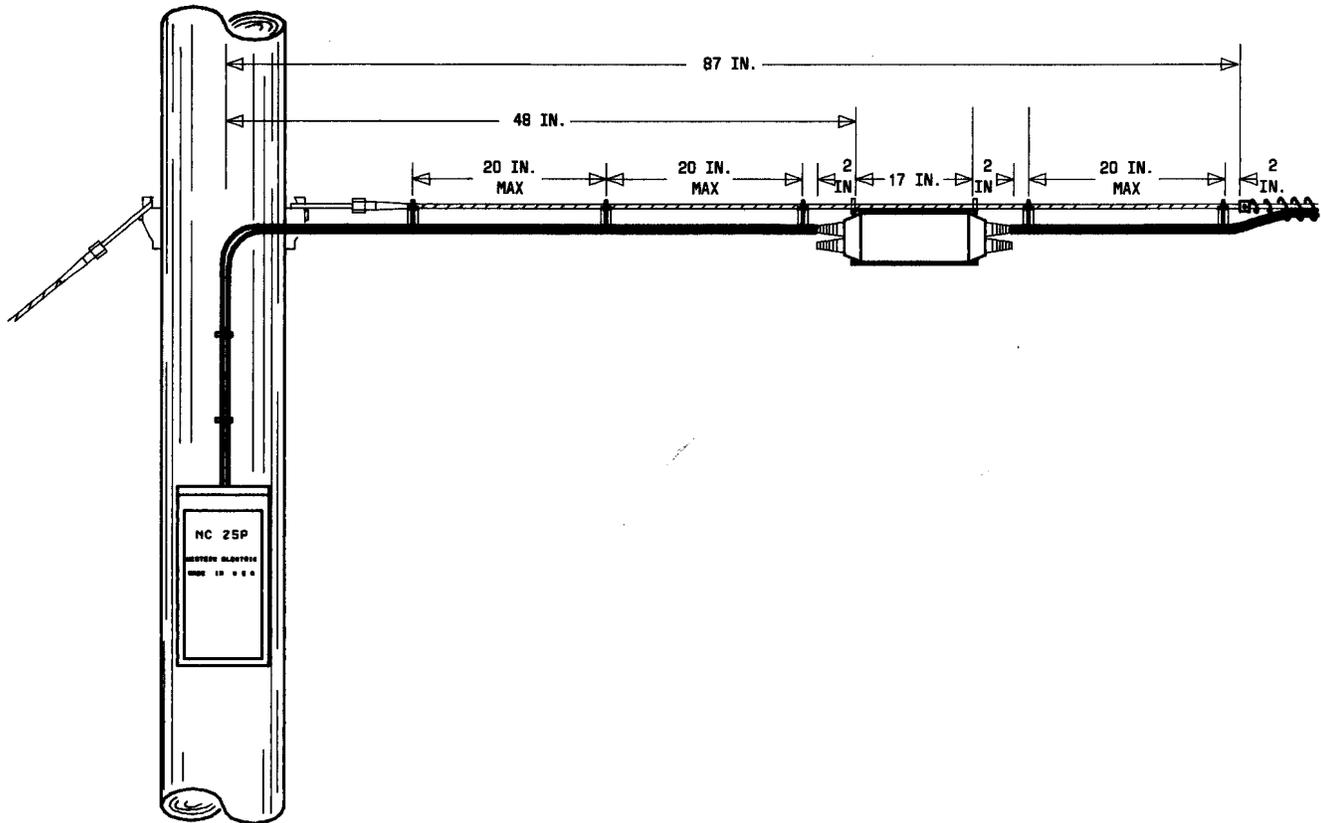
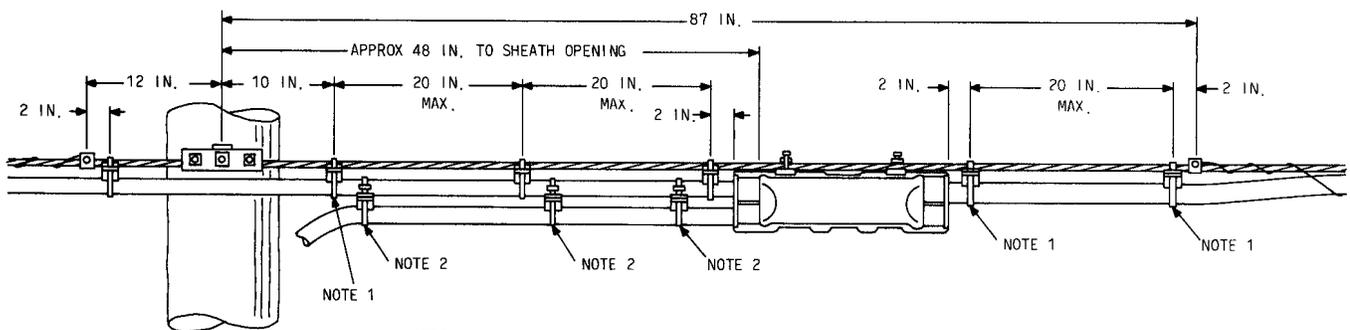


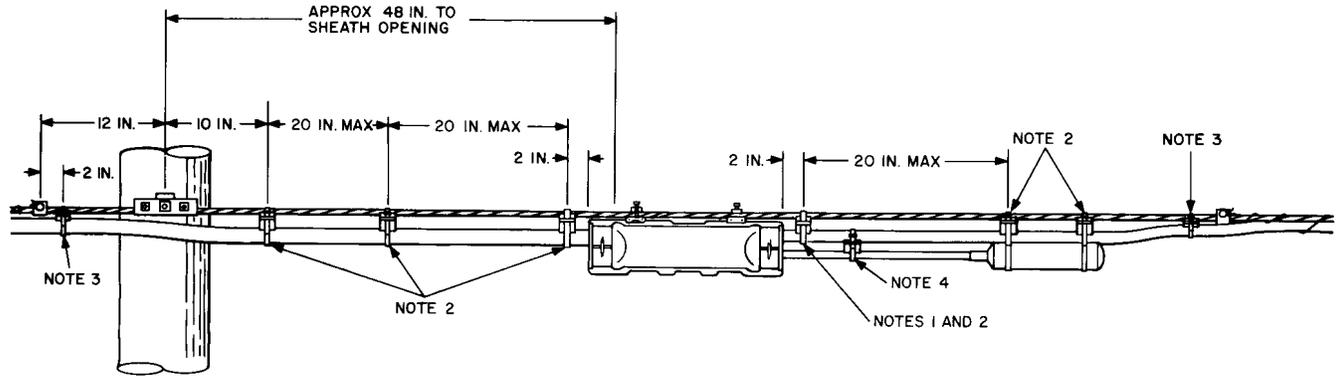
Fig. 35—18-Type Cable Closure—Dead-End Pole



NOTES:

1. USE LASHED CABLE SUPPORT AND CABLE SPACER OF PROPER SIZE TO HAVE CABLE PARALLEL TO STRAND BETWEEN SUPPORT AND SPLICE.
2. USE LASHED CABLE SUPPORTS AND CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO HOLD STUB PARALLEL TO CABLE.

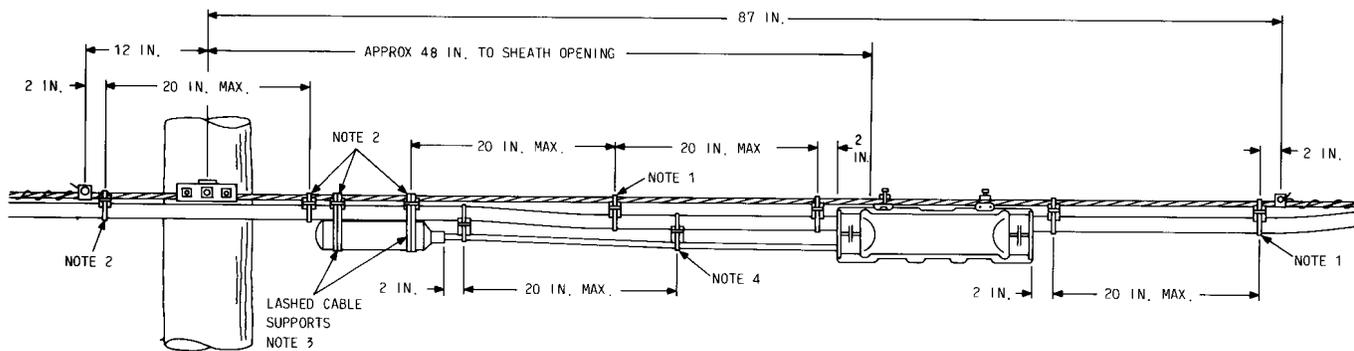
Fig. 36—Pole Mounted Coil Case



NOTES:

1. PLACE LASHED CABLE SUPPORT AND SPACER MIDWAY BETWEEN CASE AND SPLICE.
2. USE LASHED CABLE SUPPORT AND CABLE SPACER OF PROPER SIZE TO HAVE CABLE PARALLEL TO STRAND BETWEEN SUPPORT AND SPLICE.
3. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND CLAMP.
4. LASHED CABLE SUPPORT AND CABLE SPACER TO HOLD STUB PARALLEL TO CABLE BETWEEN SUPPORT AND SPLICE.

Fig. 37—Strand Mounted Coil Case



NOTES:

1. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO HAVE CABLE PARALLEL TO STRAND BETWEEN SUPPORT AND SPLICE.
2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND CLAMP.
3. MAKE FIRST WRAP OF SUPPORT AROUND STRAND AND CABLE; SECOND AND THIRD WRAPS AROUND THE STRAND, CABLE AND CASE.
4. USE LASHED CABLE SUPPORT AND CABLE SPACER OF PROPER SIZE TO HOLD STUB PARALLEL TO CABLE BETWEEN SUPPORT AND SPLICE.

Fig. 38—Strand Mounted Coil Case—Alternate Method

