1. GENERAL

This section covers the arrangement of permanent supports on lashed aerial cable.

1.02 This section is reissued to:
- Add information on the support arrangements for optical cable.
- Add Fig. 1A support arrangement for optical cable at in-line pole.
- Add Fig. 8A support arrangement for optical cable when overlashed to an existing metallic conductor cable.
- Add Fig. 17A Loop-Back Arrangement for optical cable splice in the span (more than 10 feet from pole).
- Add Fig. 19A Loop-Back support arrangement for optical cable splice at dead end pole.
- Add Fig. 26A support arrangement for optical cable lashed to existing metallic conductor cable were 49 type terminal is present.
- Add Fig. 29A support arrangement for optical cable lashed to existing metallic conductor cable where 105 type terminal is present.
- Add recommendation for the use of optical cable warning tag and mechanical protection at pole locations.
- Add support arrangement where optical cable manufacturer requires slack at the pole.

Since this is a general revision, arrows ordinarily used to emphasize 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 metallic conductor cables weighing 2.3 pounds per foot or less. Lashing past the pole is not recommended for optical cables.

1.04 Metallic Conductor Cable should not be lashed to an existing optical cable.

1.05 At sheath opening locations:
(1) Temporarily terminate the lashing wire.
(2) Support the unlashed 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.

1.06 When it is necessary to cut a lashing wire, secure the wire to the strand with a lashing wire grip before cutting. For proper termination of lashing wire, refer to Sect. 627-330-202.

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

1.08 For arrangement of supports for metallic conductor self-supporting cable, see Practice 627-700-020.

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 plastic type cable support unless otherwise noted; however, metal lashed cable supports may be installed, if desired. (See 627-340-101.)

Note: The plastic type 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.

2.03 When optical cable is lashed to an existing metallic conductor cable and strand or to individual strand, it is recommended that mechanical protection be placed in the T-Zone to protect the optical cable from damage.

2.04 When supporting optical cable at splice points where slack exists and a loop-back is involved, and the manufacturer has not specified a specific radius the minimum No Load bending radius at the loop-back is 10 times the diameter of the cable. Example: 1/2 inch dia. cable, 10 x .50 = 5 inch minimum radius.

2.05 The use of a warning tag is recommended for optical cable at pole locations to prevent accidental mishandling during routine work operations.

2.06 When optical cable manufacturers require a slack loop at pole locations and the manufacturer does not specify a minimum radius, a minimum 9 inch bending radius should be used. A smooth sweeping transition should be made to the support strand at all bends that will not exceed minimum no load bending radius.

2.07 Figures 1A and 8A can be used as a guide for making slack loops at locations not shown in this practice.
### TABLE A

**ILLUSTRATION REFERENCE**

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIG. NO.</th>
<th>ILLUSTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-LINE POLES AND CORNER POLES</td>
<td>1</td>
<td>Arrangement of Supports at In-Line Pole or Corner Pole With Pull Not More Than 10 Feet on 6M or 6.6M strand and Not More Than 5 Feet on 10M, 16M, and 25M Strand.</td>
</tr>
<tr>
<td></td>
<td>1A</td>
<td>Optical cable lashed to strand</td>
</tr>
<tr>
<td>POLE STRAND CONNECTOR</td>
<td>2</td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Corner Pole Dead Ended Both Ways With B Strand Grip</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Corner Pole Dead Ended Both Ways With Strandvises</td>
</tr>
<tr>
<td>TWO CABLES LASHED TO A SINGLE SUSPENSION STRAND</td>
<td>5</td>
<td>Pole Strand Connector - 6M, 6.6M, and 10M Strand (Separation Less Than 1 Inch)</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>Pole Strand Connector - 6M, 6.6M, and 10M Strand (Separation Greater Than 1 Inch)</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>Two Metallic Conductor Cables Lashed With Single Lashing Wire</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>New Metallic Conductor Cable Lashed to Existing Strand and Cable</td>
</tr>
<tr>
<td></td>
<td>8A</td>
<td>Optical cable lashed to existing metallic conductor cable</td>
</tr>
</tbody>
</table>

**NOTE:** Support arrangements in TABLE A for Metallic Conductor Cables also apply to optical cable unless noted otherwise. (See Par. 2.03 on mechanical protection and 2.06 for bending radius) where a slack loop is required FIG. 1A & 8A can be used as a guide.
<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIG. NO.</th>
<th>ILLUSTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FALSE DEAD ENDS</td>
<td>9</td>
<td>Arrangement of Supports at B False Dead End</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>Arrangement of Supports at False Dead End Strandvise</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>False Dead End Using Guy Clamps (6M, 6.6M, 10M and 16M Strand)</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>False Dead End Using Guy Clamps (25M Strand)</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>False Dead End Using Guy Clamps and Pole Strand Connector (25M Strand)</td>
</tr>
<tr>
<td>DEAD-END POLE</td>
<td>14</td>
<td>Arrangement of Supports at Dead-End Pole</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>Dead-End Pole Using Guy Clamps (6M, 6.6M, and 10M Strand)</td>
</tr>
<tr>
<td>SPLICE CASES AND LEAD SLEEVES</td>
<td>16</td>
<td>Arrangement of Supports at Splice in Midspan</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>Splice in Span (Less Than 10 Feet From Pole or Crossover)</td>
</tr>
<tr>
<td></td>
<td>17A</td>
<td>Loop-Back Optical Splice in Span</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>Splice at Dead-End Pole (B Strand Grip)</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>Splice at Dead-End Pole (Strandvise)</td>
</tr>
<tr>
<td></td>
<td>19A</td>
<td>Loop-Back Optical Cable Splice at Dead End Pole</td>
</tr>
</tbody>
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### Table A (Contd)

#### ILLUSTRATION REFERENCE

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIG. NO.</th>
<th>ILLUSTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPLICE CASES AND LEAD SLEEVES</td>
<td>20</td>
<td>Arrangement of Supports at a Branch Splice</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>Arrangement of Supports at Aerial Crossover</td>
</tr>
<tr>
<td>METALLIC CONDUCTOR CABLE STRAND-MOUNTED N-TYPE</td>
<td>22</td>
<td>In-Line Pole</td>
</tr>
<tr>
<td>CABLE TERMINALS</td>
<td>23</td>
<td>Dead-End Pole</td>
</tr>
<tr>
<td>49-TYPE CABLE TERMINALS</td>
<td>24</td>
<td>In-Line Pole (Metallic Conductor)</td>
</tr>
<tr>
<td></td>
<td>25</td>
<td>Dead-End Pole (Metallic Conductor)</td>
</tr>
<tr>
<td></td>
<td>26</td>
<td>Two Metallic Conductor Cables Lashed to Single Strand</td>
</tr>
<tr>
<td></td>
<td>26A</td>
<td>Optical cable lashed to existing metallic conductor cable</td>
</tr>
<tr>
<td>105-TYPE CABLE TERMINALS</td>
<td>27</td>
<td>In-Line Pole (Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>28</td>
<td>Dead-End Pole (Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td>Two Metallic Conductor Cables Lashed to Single Strand</td>
</tr>
<tr>
<td></td>
<td>29A</td>
<td>Optical cable lashed to existing metallic conductor cable</td>
</tr>
<tr>
<td>1A1, 1B1, AND 1C1 TERMINAL SUBS</td>
<td>30</td>
<td>Arrangement of Supports at 1A1, 1B1, or 1C1 Terminal Stub (Metallic Conductor Cable)</td>
</tr>
<tr>
<td>6-TYPE CABLE CLOSURE</td>
<td>31</td>
<td>6C1 Cable Closure (In-Line Splice Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>6D1 Cable Closure (In-Line Splice Metallic Conductor Cable)</td>
</tr>
</tbody>
</table>

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See proprietary restrictions on title page.
<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>FIG. NO.</th>
<th>ILLUSTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-TYPE CABLE CLOSURE</td>
<td>33</td>
<td>Branch Splice (Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>Lateral Pole (Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>Dead-End Pole (Metallic Conductor Cable)</td>
</tr>
<tr>
<td>COIL CASES</td>
<td>36</td>
<td>Pole Mounted (Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>37</td>
<td>Strand Mounted (Metallic Conductor Cable)</td>
</tr>
<tr>
<td></td>
<td>38</td>
<td>Strand Mounted (Alternate Method) (Metallic Conductor Cable)</td>
</tr>
<tr>
<td>H LOADING FIXTURE</td>
<td>39</td>
<td>Arrangement of Supports (Metallic Conductor Cable)</td>
</tr>
</tbody>
</table>
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 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

Fig. 1A - Optical Cable Lashed to Strand

NOTES:
1. SOME OPTICAL CABLE MANUFACTURERS RECOMMEND PLACING A SLACK LOOP AT EVERY POLE. (SEE 2.06)
2. SUPPORT ARRANGEMENT WHERE SLACK LOOP IS REQUIRED.
3. RECOMMEND MECHANICAL PROTECTION IN T-ZONE.
4. OPTICAL CABLE WARNING TAG.
5. USE CABLE SPACERS OF PROPER SIZE TO MAINTAIN 1/2 IN. CLEARANCE BETWEEN CABLE AND CLAMP.

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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

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

1. TEMPORARILY HOLD CABLE ABOUT 1 IN. AWAY FROM POLE UNTIL SPAN ON EACH SIDE IS LASHED AND SUPPORTS HAVE BEEN PLACED. (SEE PARA. 2.06)
2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE.
BOND STRANDS WITH NO. 6 GROUND WIRE

NOTES:
1. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE. (SEE PARA. 2.06)
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: USE LASHED CABLE SUPPORT AND CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE
Fig. 6 - Pole Strand Connector - 6M, 6.6M, and 10M Strand
(Separation Greater Than 1 Inch)

Fig. 7 - Two Metallic Conductor Cables Lashed With a Single Lashing Wire

NOTES:
1. DOES NOT APPLY TO OPTICAL CABLES.

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NOTES:

1. AT LOCATIONS WHERE THE FIRST LASHING WIRE IS TERMINATED THE SECOND LASHING WIRE NEED NOT BE TERMINATED BUT MAY BE LASHED PAST THE POLE.
2. DOES NOT APPLY TO OPTICAL CABLE

Fig. 8 - New Metallic Conductor Cable Lashed to Existing Strand and Metallic Conductor Cable

NOTES:

1. SUPPORT ARRANGEMENT WHERE NO SLACK LOOP IS REQUIRED.
2. SUPPORT ARRANGEMENT WHERE SLACK LOOP IS REQUIRED.
3. RECOMMENDED MECHANICAL PROTECTION IN T-ZONE.
4. OPTICAL CABLE WRAPPING TAG.

Fig. 8A - Optical Cable Lashed to Existing Metallic Conductor Cable

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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 Strandvise

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NOTE
1. THE OPPOSITE SIDE OF THE POLE IS TREATED IN THE SAME WAY 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)

Fig. 12 - False Dead End Using Guy Clamps (25M Strand)
NOTES:
1. THE OPPOSITE SIDE OF THE POLE IS TREATED IN THE SAME WAY 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. 13 - False Dead End Using Guy Clamps and Pole Strand Connector
(25M Strand)

NOTE:
USE LASHED CABLE SUPPORT WITH CABLE SPACER OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND HARDWARE.

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

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NOTES:
1. USE LASHED CABLE SUPPORTS WITH CABLE SPACERS OF PROPER SIZE TO OBTAIN MINIMUM SEPARATION BETWEEN CABLE AND GUY CLAMPS.
2. ADDITIONAL GUY CLAMPS AND HARDWARE REQUIRED FOR 16M AND 25M STRAND (627-240-212) AND ADDITIONAL LASHED CABLE SUPPORT 20 IN. FROM FIRST SUPPORT.

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

NOTES:
1. AT POINT A, USE LASHED CABLE SUPPORTS AND 1/4 IN. CABLE SPACERS ON LEAD SLEEVES.
2. AT POINTS B, USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO POSITION CABLE PARALLEL TO STRAND BETWEEN SUPPORT AND SPLICE.

Fig. 16 - Arrangement of Supports at Splice in Midspan

NOTES:
1. AT POINT A, USE LASHED CABLE SUPPORT AND 1/4 IN. CABLE SPACERS ON LEAD SLEEVES.
2. AT POINTS B, USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO POSITION CABLE PARALLEL TO STRAND BETWEEN POLE AND SPLICE.

Fig. 17 - Splice in Span (Less Than 10 Feet From Pole or Crossover)

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Fig. 17A Optical Cable Loop-Back Splice in Span

NOTES:
1. 20 IN. MAX SPACING BETWEEN SUPPORTS.
2. MINIMUM BENDING RADIUS OF 11X DIA. AT LOOPBACK. (SEE PAR. 2.04).
3. PROTECT CABLE WITH MECHANICAL PROTECTION IN SPLICE CASE AREA.
4. USE LASHED CABLE SUPPORTS AND 1/16" SPACERS.
5. OPTICAL CABLE CAUTION TAG.
6. RECOMMEND MECHANICAL PROTECTION IN T-ZONE, WHERE SLACK LOOP IS REQUIRED (SEE FIG. 14).
1. USE LASHED CABLE SUPPORTS AND 1/4 IN. CABLE SPACERS ON LEAD SLEEVES.
2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO POSITION CABLE PARALLEL TO STRAND.
3. MAXIMUM DISTANCE OF 20 IN. BETWEEN SUPPORTS.

NOTES:

Fig. 18 - Splice at Dead-End Pole (B Strand Grip)

Fig. 19 - Splice at Dead-End Pole (Strandvise)

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1. PLACE MECHANICAL PROTECTION IN SPLICE CASE AREA.
2. USE LASHED CABLE SUPPORTS AND 1/4" SPACERS.
3. MAX. DISTANCE OF 20 IN. BETWEEN SUPPORTS.
4. MINIMUM BENDING RADIUS OF 10X DIA.

Fig. 19A Optical Cable Loop-Back Splice at Deadend Pole

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NOTES:
1. USE LASHED CABLE SUPPORTS AND 1/4 IN. CABLE SPACERS ON LEAD SLEEVES.
2. USE APPROPRIATE SIZE CABLE SPACERS TO KEEP CABLES PARALLEL TO STRAND
   AND AT THE SAME LEVEL OR SLIGHTLY LOWER THAN CLOSURE ENTRANCE.
3. MAXIMUM SPAN OF 20 IN. BETWEEN SUPPORTS.
4. APPROXIMATELY 48 INCHES TO SHEATH OPENING.
5. LOCATE 1 INCH FROM START OF BEND BUT NOT LESS THAN 10 IN. FROM THRU BOLT.

Fig. 20 - Arrangement of Supports at a Branch Splice

Fig. 21 - Arrangement of Supports at Aerial Crossover
NOTES:
1. THE OPPOSITE SIDE OF THE POLE IS TREATED IN THE SAME MANNER 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 POSITION CABLE PARALLEL TO STRAND.
4. 20 IN. MAXIMUM BETWEEN SUPPORTS.

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

NOTES:
1. USE LASHED CABLE SUPPORTS AND 1/4 IN. CABLE SPACERS ON LEAD SLEEVES.
2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO POSITION CABLE PARALLEL TO STRAND BETWEEN SUPPORT AND SPLICE.
3. 20 IN. MAXIMUM BETWEEN SUPPORTS.
4. DOES NOT APPLY TO OPTICAL CABLE.

Fig. 23 - Metallic Conductor Cable Strand Mounted N-Type Cable Terminal (Dead-End Pole)
Fig. 24 - Metallic Conductor Cable 49-Type Cable Terminal - In-Line Pole

Fig. 25 - Metallic Conductor Cable 49-Type Cable Terminal - Dead-End Pole

NOTE 1: APPROX 18 IN. TO SHEATH OPENING.
2. USE LASHED CABLE SUPPORTS WITH PROPER SIZE CABLE SPACERS TO HOLD CABLE PARALLEL TO STRAND AND AT THE SAME LEVEL OR SLIGHTLY LOWER THAN TAPERED ENDS OF COVER.
3. 20 INCH MAXIMUM BETWEEN SUPPORTS.

NOTES:
1. 20 IN. MAXIMUM BETWEEN SUPPORTS.
2. LASHED CABLE SUPPORTS WITH PROPER SIZE CABLE SPACERS TO HOLD CABLE PARALLEL TO STRAND.
3. DOES NOT APPLY TO OPTICAL CABLE.

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

Fig. 26A - 49-Type Cable Terminal - Optical Cable Lashed to Existing Metallic Conductor Cable

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 0 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.
5. OPTICAL CABLE WARNING TAG.
1. APPROX 18 IN. TO SKEATH OPENING.
2. USE LASHED CABLE SUPPORTS WITH PROPER SIZE CABLE SPACERS TO HOLD CABLE PARALLEL TO STRAND AND AT THE SAME LEVEL OR SLIGHTLY LOWER THAN BOOTS.
3. 20 IN. MAXIMUM BETWEEN SUPPORTS.

Fig. 27 - Metallic Conductor Cable 105-Type Cable Terminal - In-Line Pole

Fig. 28 - Metallic Conductor Cable 105-Type Cable Terminal - Dead-End Pole

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NOTES:
1. APPROXIMATELY 18 IN. TO SHEATH OPENING.
2. NO. 1C 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. 29 - 105-Type Cable Terminal - Two Metallic Conductor Cables Lashed to a Single Strand

Fig. 29A - 105-Type Cable Terminal - Optical Cable Lashed to Existing Metallic Conductor Cable

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Fig. 30 - Metallic Conductor Cable Arrangement of Supports at 1A1, 1B1,
or 1C1 Terminal Stub

Fig. 31 - Metallic Conductor Cable 6C1 Cable Closure - In-Line Splice

Fig. 32 - Metallic Conductor Cable 6D1 Cable Closure - In-Line Splice

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NOTES:
1. APPROX 48 IN. TO SHEATH OPENING.
2. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO HOLD CABLE PARALLEL TO STRAND.
3. 20 IN. MAXIMUM BETWEEN SUPPORTS.
4. USE LASHED CABLE SUPPORT AND CABLE SPACERS OF PROPER SIZE TO HOLD LOWER CABLE PARALLEL TO UPPER CABLE.
5. LOCATE 1 IN. FROM START OF BEND BUT NOT LESS THAN 10 IN. FROM THRU BOLT.

Fig. 33 - Metallic Conductor Cable 18-Type Cable Closure - Branch Splice

NOTES:
1. USE APPROPRIATE SIZE CABLE SPACERS TO KEEP CABLES PARALLEL AND AT THE SAME LEVEL OR SLIGHTLY LOWER THAN CLOSURE NOZZLES.
2. DOES NOT APPLY TO OPTICAL CABLE.

Fig. 34 - Metallic Conductor Cable 18-Type Cable Closure - Lateral Pole
Fig. 35 - Metallic Conductor Cable 18-Type Cable Closure - Dead-End Pole

Fig. 36 - Metallic Conductor Cable Pole Mounted Load Coil Case

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. 37 - Metallic Conductor Cable Strand Mounted Load Coil Case**

**NOTES:**
1. USE LASHED CABLE SUPPORT AND CABLE SPACER OF PROPER SIZE TO POSITION 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. LASHED CABLE SUPPORT AND CABLE SPACER TO HOLD STUB PARALLEL TO CABLE BETWEEN SUPPORT AND SPLICE.

**Fig. 38 - Metallic Conductor Cable Strand Mounted Load Coil Case - Alternate Method**

**NOTES:**
1. USE LASHED CABLE SUPPORTS AND CABLE SPACERS OF PROPER SIZE TO POSITION 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.
5. DOES NOT APPLY TO OPTICAL CABLE.
NOTES:

1. At points A, use lashed cable supports and $\frac{1}{4}$ inch cable spacer. At points B and C, use lashed cable support and cable spacer of proper size to position cable parallel to strand between support and splice.

2. Where separation between strand and cable is more than 2-1/2 inches, use lashed cable supports equipped with wire loops.

3. If this distance is more than 20 inches, use additional supports as necessary, so that the cable is supported at least every 20 inches.

4. At points D, use lashed cable support and cable spacer of proper size to hold stub parallel to cable between support and splice.

5. At points E, use lashed cable support and cable spacer on straight portion of stub 1 inch from start of bend.

Fig. 39 - Metallic Conductor Cable Arrangement of Supports at H Loading Fixture