TeAM Policy

Telecom Applications Management

SUBJECT: Clearance Between Communication Facilities and Street Light or Traffic Signal Brackets on CECONY Owned Poles

POLICY NO.: 014-00-01

1.0 Policy Statement

Clearances between non current-carrying parts of communication facilities and street light or traffic signal brackets on poles owned by Consolidated Edison Company of New York (CECONY) are in accordance with the current edition of the National Electrical Safety Code (NESC) and in agreement with the Bell System Manual of Construction Procedures (Issue 3, December 1998).

2.0 Definitions

2.1 Effectively Grounded. Intentionally connected to earth through at least one ground connection of sufficiently low impedance and having sufficient current-carrying capacity to limit the buildup of voltages to levels below that which may result in undue hazard to persons or property.

2.2 Licensee. A party having the appropriate authorization from the pole owner, either CECONY or Verizon, to attach to, operate, or maintain its facilities on the specific utility poles within the franchise area.

2.3 Walk. A continuous segment of a licensee franchise area, consisting of approximately 200 poles, proposed by the licensee and forming the basic unit of make-ready work. A multi-party walk involves the surveying of the above-mentioned poles by the proposed licensee and all other attachees to that pole (including CECONY, Verizon and all other existing licensees).

2.4 Pole Survey Walk Record. A document identifying the walk number and listing, in consecutive order, the poles to be surveyed in that walk. This document is used to record, in detail, the make-ready work required on each pole, specifying the parties responsible for that work.

3.0 Clearance Requirements

The minimum vertical clearances between non current-carrying parts of communication facilities and street light of traffic signal brackets on CECONY-owned poles are summarized below (Table 1).

FACILITY	CLEARANCE
Street light or traffic signal bracket (effectively grounded)	4 in (100 mm)
Street light or traffic signal bracket (not effectively grounded)	20 in (500 mm)
Drip loop of a street light bracket **[1]**	12 in (300 mm)

Table 1: Minimum vertical clearances between non current-carrying communication facilities and street light or traffic signal brackets.

[1] This 12 in (300 mm) clearance may be reduced to a minimum of 3 in (75 mm) if the loop is covered by a suitable non-metallic covering that extends at least 2 inches (50 mm) beyond the loop.

4.0 Grounding Requirements

4.1 If a licensee installs it's facilities less than a vertical distance of 20 in (500 mm) below a street light or traffic signal bracket that is not effectively grounded, that licensee is required to ground that bracket as per paragraph 4.3 of this section.

4.2 Determination that the installation of this ground is necessary should be made during the pole walk. The licensee responsible for this installation should be indicated on the pole survey walk record.

4.3 The ground for the street light or traffic signal bracket should be AWG No. 6 copper connected externally from the stud at the bottom of the bracket. An 8' length of the grounding wire should be looped and left on the pole. Qualified personnel authorized by CECONY will install rigid molding (flexible or collapsible molding material is not permitted) to cover the grounding wire and connect it to the CECONY system neutral (Figure 1).

5.0 References

EXHIBIT A: 335241 *Pole Space Allocation*

TeAM Policy 012-00-01: *Conducting Multi-Party Pole Walks to Determine Make Ready Work*

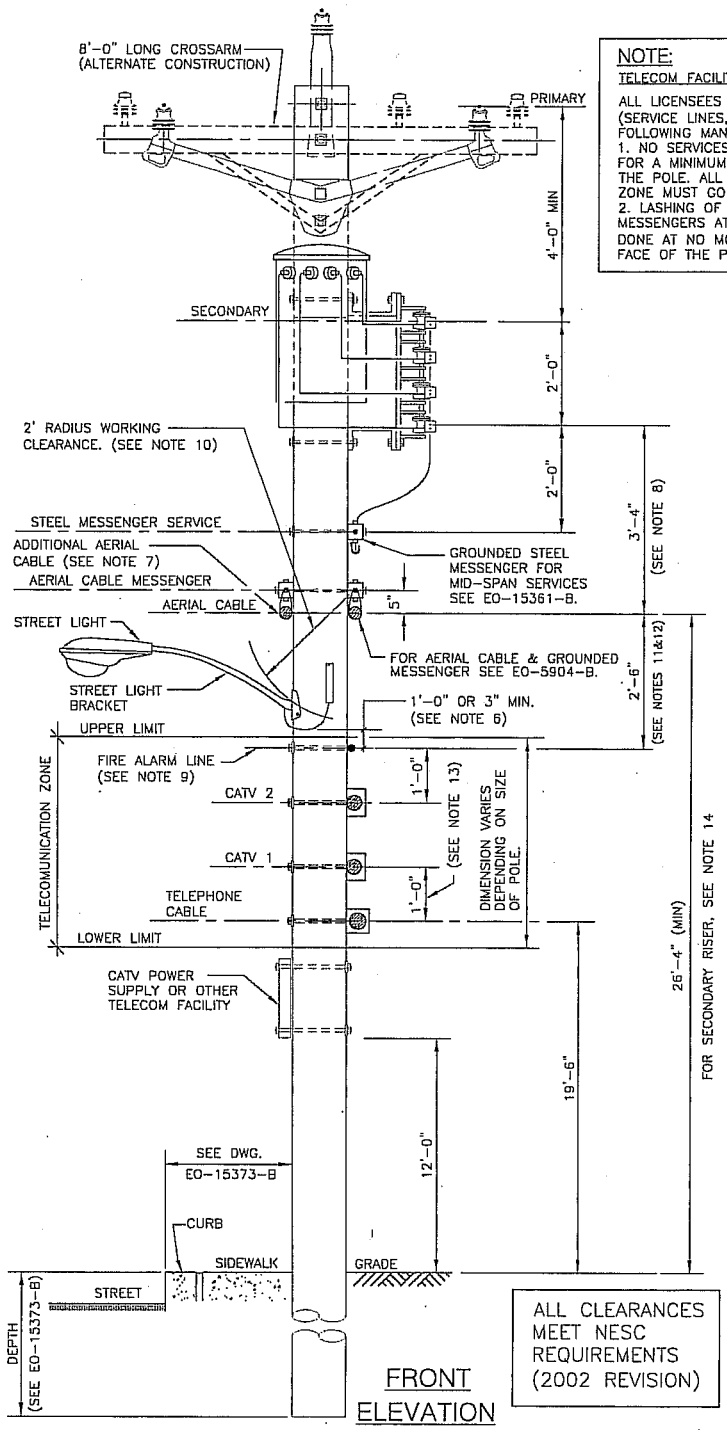
EXHIBIT A: Pole Space Allocation

335241

L. ORTEGA 8/6/03

REVISIONS

L. SCALLY	8/6/03	1
SPEC. REVISED DUE TO COMPUTER GLITCH ONLY. NO DATA CHANGED.		
J.T. ABBRUSCATO	8/6/03	
C. GRABOWSKI	11/6/03	2
ADDED NOTE FOR CLEARANCES AND NOTE 14.		
J.T. ABBRUSCATO	11/6/03	
C. GRABOWSKI	3/11/04	3
CH'D 12" (TYP.) TO SEE DWG. EO-15373-B IN FRONT ELEVATION. ADDED NOTE 15 AND 20" MIN. DIM. BETWEEN XFORMER AND SERV. MESSENGER ON SIDE ELEV. CH'D DISTANCE BETWEEN AERIAL CABLE AND SECONDARY SPOOL FROM 3'-8" TO 3'-4" IN FRONT ELEVATION.		
H.J.M.	3/11/04	



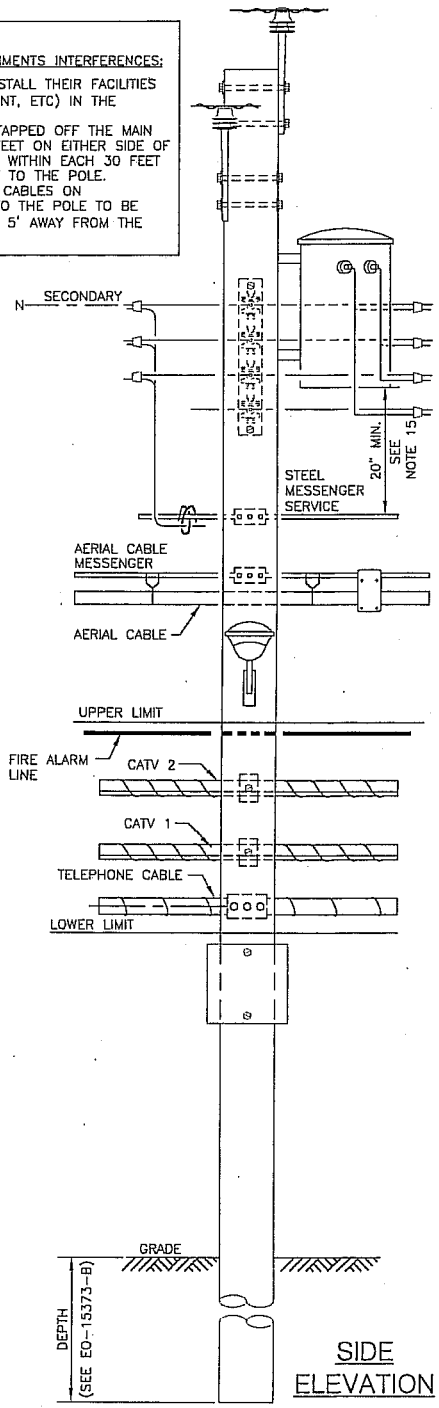
FRONT ELEVATION

ALL CLEARANCES MEET NESC REQUIREMENTS (2002 REVISION)

NOTE:

TELECOM FACILITY ATTACHMENTS INTERFERENCES:

ALL LICENSEES SHALL INSTALL THEIR FACILITIES (SERVICE LINES, EQUIPMENT, ETC) IN THE FOLLOWING MANNER:
1. NO SERVICES TO BE TAPPED OFF THE MAIN FOR A MINIMUM OF 30 FEET ON EITHER SIDE OF THE POLE. ALL SERVICES WITHIN EACH 30 FEET ZONE MUST GO DIRECTLY TO THE POLE.
2. LASHING OF TELECOM CABLES ON MESSENGERS ATTACHED TO THE POLE TO BE DONE AT NO MORE THAN 5' AWAY FROM THE FACE OF THE POLE.



SIDE ELEVATION

CONSTRUCTION NOTES

1. CABLE TV RISERS NOT ALLOWED ON POLES WHERE POWER OR TELEPHONE RISERS ARE PRESENT OR PROPOSED.
2. A 2'-6" SQUARE CLIMBING SPACE SHALL BE PROVIDED TANGENT TO THE POLE AND SHALL BE KEPT CLEAR OF SERVICE DROPS. ITS HEIGHT AND DEPTH SHALL EXTEND AT LEAST 3'-4" ABOVE AND BELOW ANY COMMUNICATION CABLE OR FACILITY.
3. ONE CURBSIDE QUADRANT SHOULD BE KEPT CLEAR OF SERVICE DROPS TO FACILITATE POLE REPLACEMENT AND DRIVEN GROUND ROD IF ANY.
4. MIN. MID SPAN CLEARANCES OF 12" BETWEEN UTILITY AERIAL CABLE AND CABLE TV.
5. GROUND FOR STREET LIGHT SHALL BE #6 AWG COPPER FROM BOTTOM OF STREET LIGHT BRACKET TO NEUTRAL.
6. 3" IF DRIP LOOP IS COVERED BY A SUITABLE 1/2" NONMETALLIC COVERING (STK. NO. 596-0745) WHICH EXTENDS AT LEAST 2" BEYOND THE LOOP.
7. ADDITIONAL 1 OR 2 AERIAL CABLES MAY BE INSTALLED IF PROPER POLE LOADING ANALYSIS HAS BEEN DONE, AND ADEQUATE CLEARANCES OF 2'-0" BETWEEN TOP AND BOTTOM AERIAL CABLES AND 1'-8" FROM TOP AERIAL CABLE TO LOWEST SECONDARY WIRE OR 1'-4" TO SERVICE MESSENGER ABOVE ARE MAINTAINED.
8. USE 1'-8" OF CLEARANCE IF STEEL MESSENGER SERVICE IS NOT INSTALLED.
9. IF FIRE ALARM WIRE IS NOT INSTALLED, FOLLOW MINIMUM CLEARANCE FROM LOWEST ELECTRIC LINE TO UPPER TELECOM LINE FACILITY.
10. IF THE STEEL MESSENGER SERVICE OR THE AERIAL CABLE/MESENGER SERVICE IS NOT INSTALLED, APPLY 2'-0" RADIUS WORKING CLEARANCE FROM LOWEST SECONDARY PHASE WIRE.
11. MAINTAIN 2'-6" MIN. CLEARANCE BETWEEN LOWEST AERIAL CABLE/MESSENGER SERVICE/GROUNDED EQUIPMENT CASING AND FIRE ALARM WIRE/UPPER TELECOM LINE.
12. IF AERIAL CABLE IS NOT INSTALLED, MAINTAIN 3'-4" CLEARANCE BETWEEN EITHER LOWEST SECONDARY PHASE WIRE OR STEEL MESSENGER SERVICE WIRE AND THE FIRE ALARM WIRE OR UPPER TELECOM LINE.
13. MAINTAIN 1'-0" CLEARANCE BETWEEN TELECOM FACILITIES.
14. EXPOSED SECONDARY CABLE AT TOP OF RISER PIPE TO HAVE 25'-0" MIN. CLEARANCE FROM GRADE PROVIDED 40" MIN CLEARANCE IS MAINTAINED FROM THE CLOSEST TELECOM WIRE AND THAT RISER IS INSTALLED AS PER EO-8302-B..
15. CLEARANCE OF 20" MIN. FROM BOTTOM OF TRANSFORMER TO GROUNDED SERVICE OR AERIAL CABLE MESSENGER; 30" TO TELECOM CABLE.

THIS DRAWING REPLACES EO-2079-B & EO-14060-B

FIELD MANUAL #23
OVERHEAD CONSTRUCTION SECTION 1.1: CLEARANCES

FIELD MANUAL #9
OVERHEAD CONSTRUCTION SECTION 5: POLE INSTALLATION

CONSTRUCTION STDS. MANUAL NO.3 SECTION 5: POLES AND CROSSARMS

POLE SPACE ALLOCATION AND TELECOM CLEARANCES

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

DATE 8/6/2003
LAST REV. 3/2/2003

DWG. NO. 335241 REV. 3