

APPENDIX D—SPECIFICATIONS FOR LICENSEE'S ATTACHMENTS TO THE LICENSOR POLES

Licensee, when making Attachments to Licensor Poles, will adhere to the following engineering and construction practices.

- A. All Attachments shall be made in accordance with the Applicable Standards as defined in Paragraph 1.2 of this Agreement.

B. Clearances

1. **Attachment and Cable Clearances:** Licensee's Attachments on Licensor Poles, including metal attachment clamps and bolts, metal cross-arm supports, bolts and other equipment, must be attached so as to maintain the minimum separations specified in the National Electrical Safety Code ("NESC") and in drawings and specifications the Licensor may from time to time furnish Licensee. (*See Drawings A-02 to A-07.*)
2. **Service Drop Clearance:** The parallel minimum separation between Licensor service drops and communications service drops shall be twelve (12) inches, and the crossover separation between the drops shall be twenty-four (24) inches. (*See Drawings A-05 and A-06.*)
3. **Sag and Mid-Span Clearances:** Licensee will be particularly careful to leave proper sag in its lines and cables and shall observe the established sag of power line conductors and other cables so that minimum clearances are (a) achieved at Poles located on both ends of the span; and (b) retained throughout the span. At mid-span, a minimum of twelve (12) inches of separation must be maintained between any other cables. At the Pole support, a six (6) inch separation must be maintained between Licensee and any other communications connection/attachment. (*See Drawing A-06.*)
4. **Vertical Risers:** Unless otherwise directed by the Licensor, all Risers shall be placed on existing stand-off brackets or in the absence of stand-off brackets the riser shall be placed on the field-face quarter section of the Pole. All risers must be installed in conduit attached to the Pole with stand-off brackets. A two (2) inch clearance in any direction from cable, bolts, clamps, metal supports and other equipment shall be maintained. (*See Drawing A-02.*)

5. **Climbing Space:** A clear Climbing Space must be maintained at all times on the face of the Pole. All Attachments must be placed so as to allow and maintain a clear and proper Climbing Space on the back side of the Lessor Pole. Licensee's cable/wire Attachments shall be placed on the same side of the Pole as those of other Attaching Entities. In general, all other Attachments and Risers should be placed on Pole field face quarter section. (See Drawing A-07.)
6. **Pedestals and Enclosures:** Every effort should be made to install Pedestals, Vaults and/or Enclosures a minimum of four (4) feet from Poles or other Lessor Facilities. In the event that the placement of Pedestals, Vaults and/or Enclosures a minimum of four (4) feet from Poles or other Lessor Facilities is not practical, Licensee shall contact the Lessor to obtain written approval of the proposed placement. Every effort should be made to install or relocate the Lessor Facilities a minimum of four (4) feet from Licensee's existing Pedestals, vaults and/or enclosures.

C. Down Guys and Anchors

1. Licensee shall be responsible for procuring and installing all anchors and guy wires to support the additional stress placed on Lessor Poles by Licensee's Attachments. Guy wires must be anchored adequately.
2. Anchors and guy wires must be installed on each Lessor Pole where an angle or a dead-end occurs. Licensee shall make guy attachments to Poles at or below its cable Attachment. No proposed anchor can be within four (4) feet of an existing anchor without written consent of the Lessor.
3. Licensee may not attach guy wires to the anchors of the Lessor or third-party user without the anchor owner's specific prior written consent.
4. No Attachment may be installed on a Lessor Pole until all required guys and anchors are installed. No Attachment may be modified, added to or relocated in such a way as will materially increase the stress or loading on Lessor Poles until all required guys and anchors are installed.
5. Licensee's down guys shall be insulated.

D. Certification of Licensee's Design

1. Licensee's Attachment Permit application must be signed and sealed by a professional engineer, registered in the State of Washington, or utility approved employee or contractor certifying that Licensee's aerial cable design fully complies with the NESC, the Lessor's Construction Standards and any other applicable federal, state or local codes and/or requirements.

2. This certification shall include the confirmation that the design is in accordance with Pole strength requirements of the NESC, taking into account the effects of Licensor Facilities and other Attaching Entities' facilities that exist on the Poles without regard to the condition of the existing facilities.

E. Miscellaneous Requirements

1. **Cable Bonding:** Licensee's messenger cable shall be bonded to the Licensor's Pole ground wire at each Pole where a ground wire is available. (*See Drawings A-03.*)
2. **Customer Premises:** Licensee's service drop into customer premises shall be protected as required by the most current edition of the NEC.
3. **Communication Cables:** All Communications cables/wires not owned by the Licensor shall be attached within the Communications space as defined in Section 235 of the NESC. (*See Drawings A-01 through A-06.*)
4. **Riser Installations:** All Licensees' Riser installations shall be in Licensor-approved conduit materials and placed on stand-off brackets. (*See Drawings A-02 to A-04.*)
5. **Tagging:** Licensee's cables shall be identified with a tag acceptable to the Licensor within twelve (12) inches of each Attachment. The tag shall include at least the following: licensee name, and cable type. Tags shall be placed in such a way as to permit identification of Attaching Entity by observation from the ground.

F. Licensor Construction Drawings and Specifications

1. Refer to the attached Licensor Construction Drawings, and obtain additional construction specifications from the Licensor in accordance with its requirements.
2. Apply the Licensor's construction drawings and specifications in accordance with the NESC, NEC, WAC, RCW and any other federal, state or local code requirements.