

Application

This standard describes the requirements for ground rods, including multiple ground rods, at wood poles.

Revision Notes

Added *Application* and *Revision Notes* sections. Updated *References*. Added new note 1. Deleted previous note 4 on removing plastic bridges from staple when stapling theft deterrent conductor to pole. Substantive changed content is marked by green vertical revision lines in the left margin. This revision released concurrently with Standards and Equipment Advisory Information Bulletin 2025-014 *Revised ES43 R2-01 Ground Rods at Wood Poles*.

References

BC Hydro Distribution Standards

ES43 R2-08	Ground Electrode Installations List of Components and Notes
ES43 M1-10	Terminal Poles General Pilaster Location

Notes

1. See ES43 R2-08 for the list of items shown in Figure 1.
2. Figure 1 shows the most common connection to ACSR neutral. Connect the galvanized steel wire above the neutral for copper neutral.
3. Grounding wire from overhead neutral to ground rod shall be continuous.
4. See other ES43 section R standards for equipment bonding and grounding above overhead neutral.
5. Use item 13, 14, or 15 for connection to overhead neutral as appropriate.
6. See ES43 M1-10 for pilaster location.

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Reviewed: V. Batinovic, P. Eng		2026-03-31	DISTRIBUTION STANDARDS 	ES43 R2-01 R6
Approved: V. Batinovic, P. Eng		Issued: 2026-03-31 Effective: 2026-03-31		

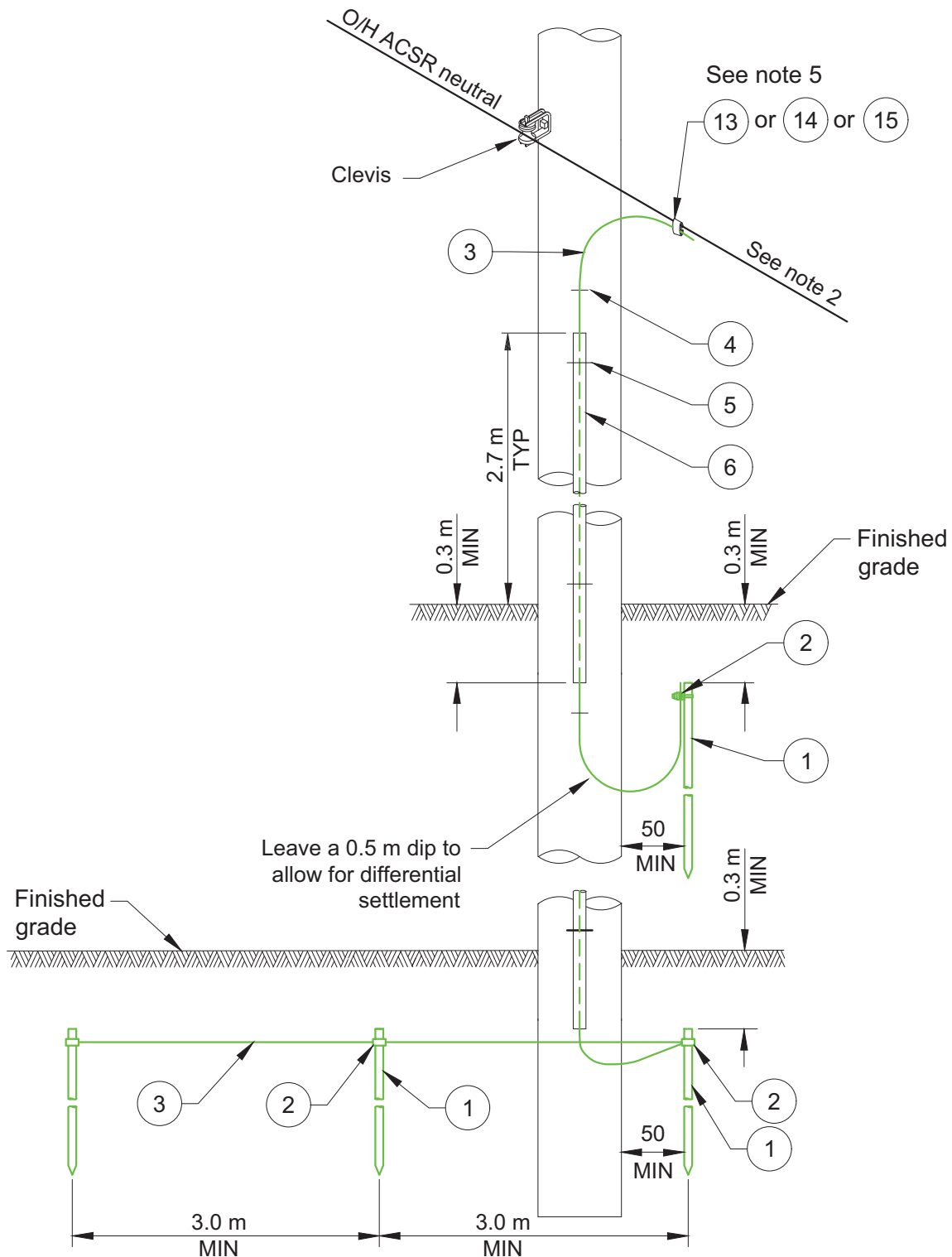


Figure 1 – Most common connection to ACSR neutral

7. Figure 2 shows the preferred ground rod installation.

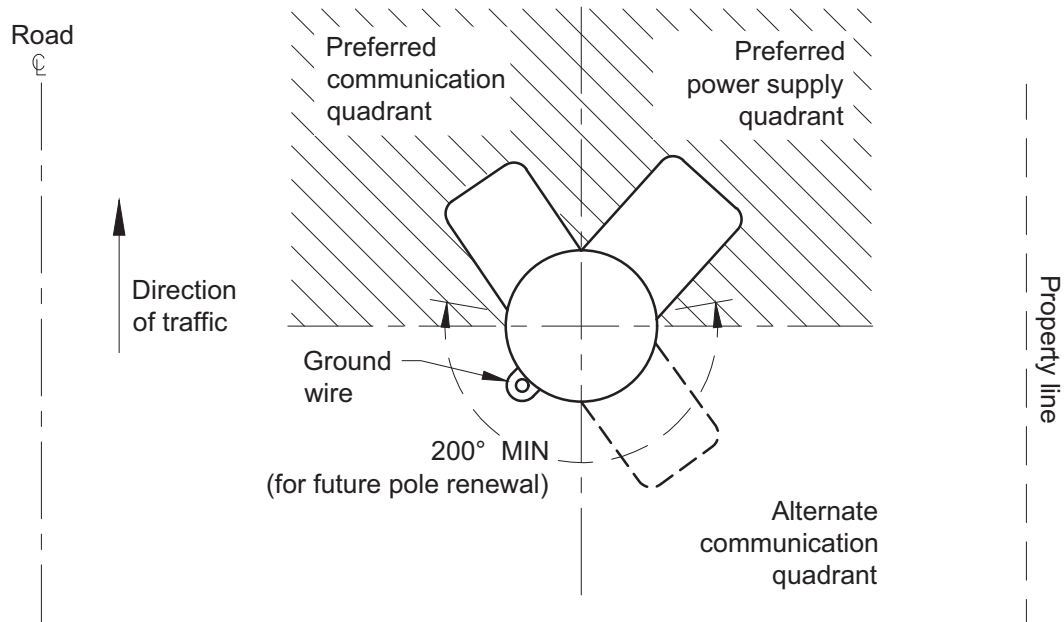


Figure 2 – Preferred installation

8. Use the rotated installation shown in Figure 3 where communication pilaster is not permitted to project past the road side of the pole. Rotate quadrants accordingly.

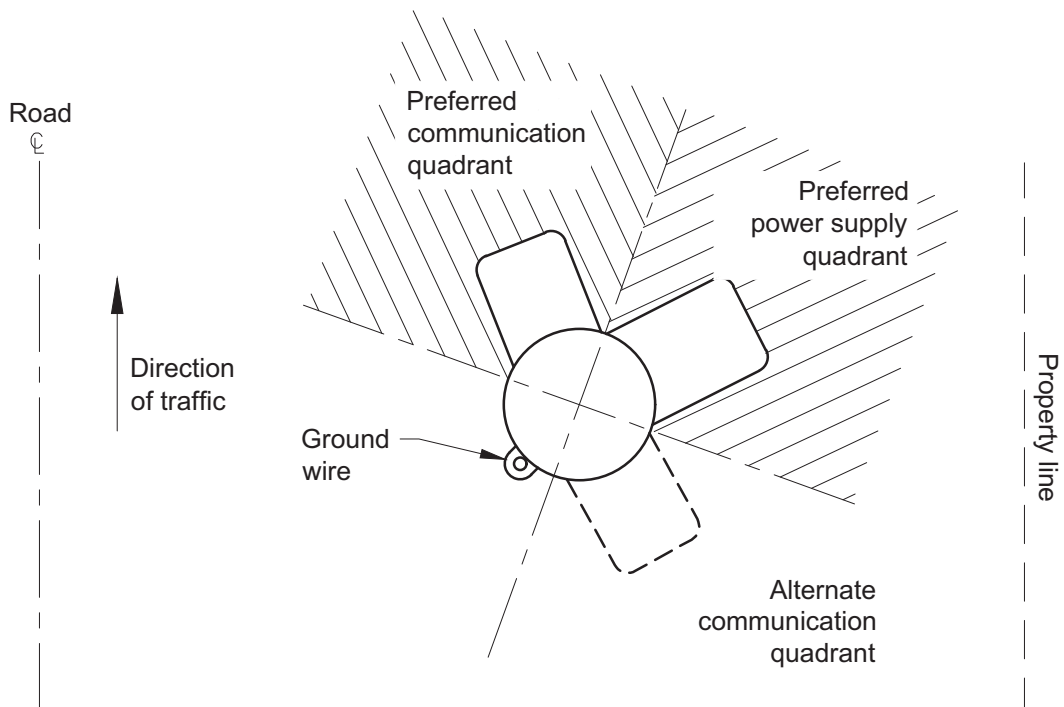


Figure 3 – Preferred installation rotated

9. Use the alternate installation shown in Figure 4 where duct access to quadrant locations shown in Figure 2 would require additional infrastructure such as pull boxes, and where there is a low probability of vehicles striking the pole.

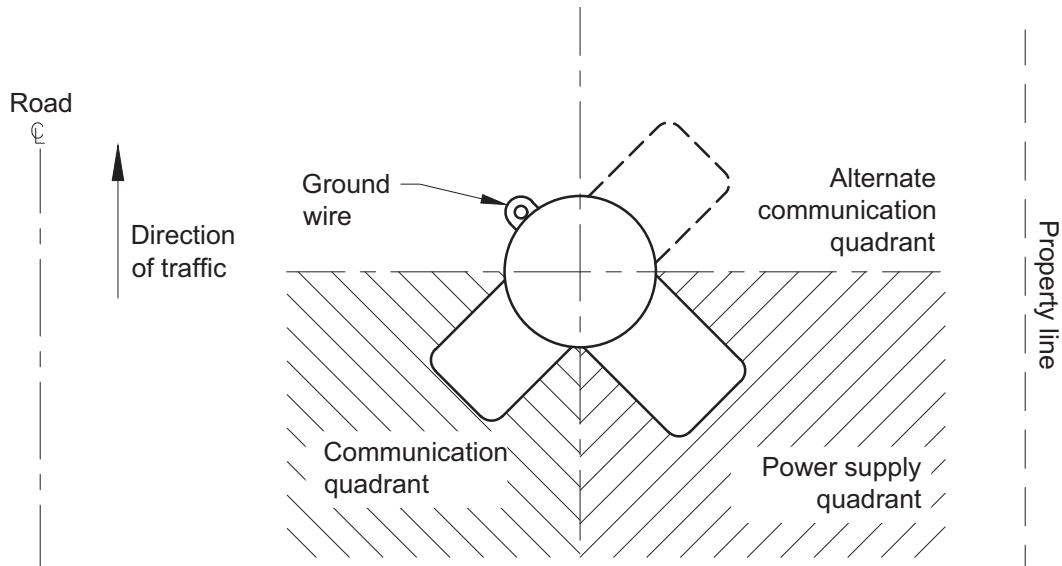


Figure 4 – Alternate installation

10. Use the alternate rotated installation shown in Figure 5 where communication pilaster is not permitted to project past the road side of the pole in Figure 4. Rotate quadrants accordingly.

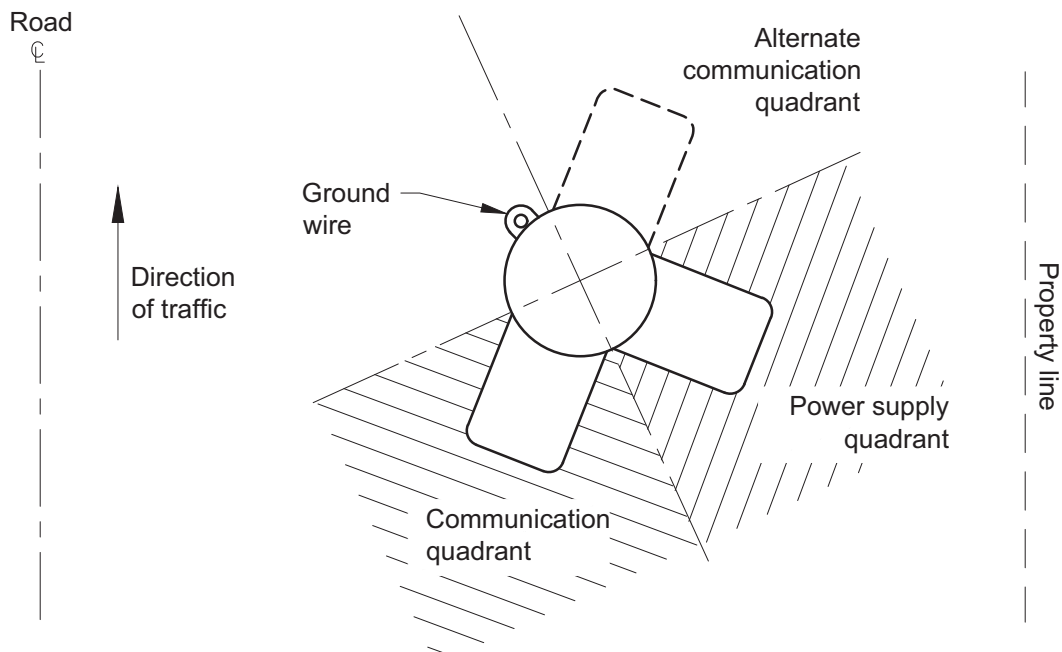


Figure 5 – Alternate installation rotated