



**City of Huntington Beach**  
Department of Community Development  
**ELECTRICAL SIGN CRITERIA**  
2000 Main Street, Huntington Beach, CA 92648  
Office: (714) 536 - 5241 Fax: (714) 374 - 1647

1. All signs shall be listed by an approved testing agency. All section letters and transformer housings shall have numbered section labels. The labels shall be affixed in the shop as per the requirements of the testing agency. (600.4)
2. Ballasts, transformers, and electronic power supplies shall be located where accessible. A passageway shall be installed to all remote transformers, ballasts, and electronic power supplies for new signs. The walkway shall be a minimum of 12" inches wide. The passage way shall be a minimum of 36" wide & 22 ½" high. A work space of at least 3ft. high, 3ft. wide, by 3ft. deep shall be provided at each transformer, ballast, and electronic power supply. (600.21)
3. A light shall be installed at each transformer for new signs. (110.34d)
4. Transformers shall be secured to enclosures. (600.21a)
5. Verify transformer has secondary ground fault protection and is listed and labeled. This can be determined by the markings and listing identification as UL 2161 (600.22)
6. A terminal electrode receptacle may be installed for each electrode. The terminal electrode receptacle shall be listed for the purpose. The electrode receptacle shall not be used to support fittings, boxes, etc. All boxes and fittings shall be securely fastened in place. (600.21, 600.42)
7. Flexible metal conduit or liquid-tight flexible metal conduit **listed for grounding > 600 volts** shall be permitted as a bonding means on the secondary side of the transformer, when it encloses the circuit conductor if the total accumulative length does not exceed 100 feet. Where listed non metallic conduit is used to enclose the secondary circuit conductor and a bonding conductor is required, the bonding conductor shall be installed separate and remote and shall be spaced at least 1-1/2" from the conduit when the circuit is operated at 100Hz or less or 1-3/4" when the circuit is operated at over 100Hz. (600.7)
8. Flexible metal conduit shall be supported as per Article 348
9. Boxes and fittings shall have a minimum distance of six inches from the end of the electrode and to any projection on the opposite wall. A bend of or in high voltage cable shall not be less than a radius of eight times the diameter of the cable. This precludes the use of 90 degree flex connectors, conduits and handy boxes when using high voltage cable. (300.34), (600.41)
10. Signs and metal equipment of outline lighting systems shall be grounded. Small metal parts not exceeding 2" in any dimension which are not likely to become

energized, and spaced at least  $\frac{3}{4}$ " from neon tubing shall not require bonding.  
(600.7)

11. No sign shall be energized until final inspection has been conducted and the building card signed by the electrical inspector. (CBC 112.1)
12. Signs shall be attached to the structure in an approved manner. (CBC Ch 16)
13. A disconnect shall be installed within sight of each sign or the remote disconnect shall be lockable. (600.6)
14. Bonding shall comply with Article 250.90.
15. Submit two sets of detailed installation instructions including diagrams to the Building Division for plan review.
16. In addition to the requirements of Art. 600, signs and outline lighting systems supplied by class 2 transformers, power supplies, and power sources shall comply with Art. 725.121.
17. All outdoor sign lighting shall be controlled with a photo control in addition to an automatic time-switch control or an astronomical time switch control (CEC part 6 130.3)