

CHAPTER 33

TELEVISION ANTENNAS.

- 33-101. Definitions.
- 33-102. Application of chapter to existing antennas.
- 33-103. Inspections generally.
- 33-104. Specifications generally.
- 33-105. Ground supported antennas.
- 33-106. Grounding.
- 33-107. Transmission lead-in conductors; height restrictions; specifications for masts.

33-101. Definitions.

For the purposes of this Chapter, the following words and phrases shall have the meanings respectively ascribed to them by this Section:

Antenna. The outdoor portion of the receiving equipment used for receiving television or radio waves from space.

Building inspector. The building inspector of the City, or any of his authorized assistants.

Height. The overall vertical length of the antenna system above the ground or, if such system be located on a building, then above that part of the level of such building upon which the system rests.

Mast. The portion of the outside antenna system to which the antenna is attached, and the support or extension required to elevate the antenna to a height deemed necessary for adequate operation.
(Code 1973, 36-1)

33-102. Application of chapter to existing antennas.

Any television antenna erected prior to the effective date of this chapter may be maintained and operated in its present location, unless any such antenna is so constructed and maintained as to be unsafe and dangerous, as determined by the building inspector, as provided in Section 33-103.
(Code 1973, 36-2)

33-103. Inspections generally.

(1) It shall be the duty of the building inspector and his authorized assistants to inspect all television and radio receiving antennas to ascertain if the work has been done in a workmanlike manner and to investigate all complaints from the general public pertaining to the antenna installations and interference caused thereby.

(2) The building inspector and his assistants are hereby empowered to inspect or reinspect any wiring, equipment or apparatus conducting or using electric current for radio and television receiving service in the City, and if conductors, equipment or apparatus are found to be unsafe to life or property, or are not in conformity with the provisions of this Chapter, the building inspector shall notify the person owning or operating the hazardous wiring or equipment to correct the condition within a forty-eight hour period or within the time the building inspector specifies. Failure to correct violations within the specified time shall constitute a violation of this Code.

(Code 1973, 36-4)

33-104. Specifications generally.

Mast and antennas shall be designed and installed in such a manner as to withstand a load of one-half inch of radical ice and resist a wind pressure of sixteen pounds per square foot on the ice loaded antenna and appurtenances.

When a mast or antenna is installed on a roof, it shall be mounted on an approved base, securely anchored to the roof. Chimney mounts on single flue chimneys may be made with a strap completely around the chimney, provided the chimney is of sufficient size and in suitable conditions. A chimney with less than two foot cross section is not suitable for an anchor mounting. Anchor screws for guys shall be securely fastened to rafters, beams or other substantial framing members.

Every roof mounted mast or antenna, including base, guys, anchors, turnbuckles and all other appurtenances, shall be of noncombustible material, and either corrosion resistant or adequately treated or

Hastings City Code

painted to resist corrosion.

Turnbuckles shall be used and securely locked against turning loose from vibration. Guy wires shall be not less than three thirty-seconds inch, six strand cable or equivalent, galvanized. The attachment of guys to anchors, mast, turnbuckles or other fastenings with sharp corners or rough edges shall be made with adequate guy thimbles or equivalent.

(Code 1973, 36-5)

33-105. Ground supported antennas.

In the case of ground supported antennas, a wooden pole may be used when the portion in contact with the ground is adequately treated with a satisfactory wood preservative. Pole steps shall not be installed closer than seven and one-half feet from the ground or other readily accessible place.

(Code 1973, 36-6)

33-106. Grounding.

Every antenna or mast shall be solidly grounded for protection against lightning discharge, using a ground conductor not smaller than No. 10 AWG copper wire or its approved equivalent ground rod. The ground rod shall be located a minimum of one foot from any foundation or other underground structure, and shall be driven vertically downward until the top is from three to six inches below the ground surface. The ground conductor leading from the house or other supporting structure shall be buried to a depth of six inches.

Where the above described artificial ground is impractical, the building inspector may authorize an alternate.

(Code 1973, 36-7)

33-107. Transmission lead-in conductors; height restrictions; specifications for masts.

Transmission lead-in conductors shall be kept at least twenty-four inches clear of existing telephone or electric power wire, and be properly supported to prevent their swinging into these conductors in case the transmission lead-in conductor should break. In no event shall the distance between supports exceed ten feet except in the case of tower or pole mounted antennas where the distance between the pole or tower and house exceeds ten feet. All lead-in conductors shall be adequately protected with approved type lightning arresters. When lead-in conductors of polyethylene ribbon-type or any other type except coaxial cable with grounded sheath are used, lightning arresters shall be connected to each conductor.

Antennas mounted on the roof or ground shall not exceed an overall height of fifty feet except by special permission of the building inspector.

Antenna masts shall be a minimum of sixteen gauge material, seamless and one and one-fourth inch outside diameter. All antenna masts except those self-supporting twenty feet or less in height shall be supported by a minimum of one guy ring at each ten feet level.

(Code 1973, 36-8)