

# CITY OF HENDERSON FIRE SAFETY GUIDELINE

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**Effective Date:** February 4, 2019

**HFS #** 001

**Supersedes:** All Others

**Updated:** July 11, 2023

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**TITLE:** **EMERGENCY VEHICLE ACCESS GATES**

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**PURPOSE:**

To provide Standardization between the local Fire Departments for providing guidance a specifications whenever access gates, including both manual and electrically operated gate are installed across any emergency vehicle access way.

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**REFERENCE:** 2021 IFC, as amended  
(Sections: 503.2.1, 503.6.2, 503.6.3, 503.6.4, 503.6.5, 503.6.6)

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**RULES & REGULATIONS:**

**I. Installation Specifications:**

1. Gates must have a minimum clear opening width of 20'- 0".
2. Electrically operated access gates must be equipped with an Automatic Vehicle Identification Device, utilizing a standard roadway loop to a vehicle detector/receiver.
3. Automatic Vehicle Identification Access System installations must incorporate the following:
  - a. Voltage - 12-volt D.C. (11.5 - 15.0), with protection against current reversal and momentary over voltage.
  - b. Current - 0.065 amps to 0.035 amps
  - c. R.F. - 375 Khz, crystal controlled, and pulse modulated type carrier(s).
  - d. Power Cable - utilize two conductor twisted and shielded cable.
4. Coding - codes must transmit every 15 ms.
5. The emergency vehicle access code shall be the same code as that utilized for the systems safety loop. It is the manufacturer's responsibility to ensure that the Emergency Vehicle Access Code is identical for all installations within all of Clark County.
6. The traffic engineer having jurisdiction must approve all stacking lanes and gate locations.
7. A green colored reflective marker shall be installed, centered in the lane at the start of the stacking lane.
8. A second green road marker shall be installed in the center of the loop directly in front

of the gate. Manual gates shall have the green marker installed in front of the gate.

9. On manual gates, the locking devices shall be equipped with a Knox Company key box or padlock as approved by Fire Safety.

## **II. Plans:**

1. Plans and specifications for fire apparatus access road gates shall be submitted for review and approval prior to construction. Included in the submittal shall be the following information:
  - a. Site plan with north arrow, roadway, and gate dimensions.
  - b. Location of underground roadway detector loop and green colored reflective marker.
  - c. Manufacturers' specification sheets detailing the voltage, current, radio frequency, power cable and coding for the proposed system.
  - d. Contractors statement of compatibility with existing installation.
  - e. Detailed vicinity map (Showing items in part I)

## **III. Operational Testing:**

1. An operational test shall be requested by the installing contractor and shall be conducted prior to placing the system into operation to establish that the final installation complies with this code, the specified design and is functioning properly.

## **IV. Acceptance Testing:**

1. A final inspection, conducted by the Fire Safety, is required prior to placing the Automatic Vehicle Identification System into use. The following conditions apply:
  - a. Approved plans must be provided on site at time of inspection.
  - b. Inspections must be scheduled a minimum of 24 hours in advance.
  - c. Installations must conform to approved plans.
  - d. As a condition of final approval, two vehicle detector/receiver devices compatible with the Vehicle Identification System must be issued to the Fire Safety representative.

## **V. Maintenance:**

1. Emergency vehicle access gates shall be kept in an operable condition at all times.
  2. All repairs shall be in accordance with the manufacturer's recommendations and original specifications.
  3. Non-conforming gates or gates placed out of service shall be secured in the open position until repaired or brought into compliance.
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