



Clark County Fire Prevention

Mission Statement: "To provide the highest level of fire protection and related services"

TITLE: AUTOMATIC EMERGENCY VEHICLE ACCESS GATES

SCOPE: Fire apparatus access roads that are secured by gates shall comply with the specification of the authority having jurisdiction. Electrically controlled gates that are not manned on a 24-hour basis shall be provided with an approved vehicle detector/receiver system in accordance with these guidelines. Gates shall be capable of being manually opened or shall be provided with battery backup in the event of power failure which shall cause the gates to remain in the open position until power is restored. Access gate systems shall be maintained operational at all times. Repairs shall be in accordance with original specifications. Access gates shall be installed in accordance with this guideline and the 2005 Clark County Fire Code.

All existing facilities with electrically controlled gates installed across access roads shall comply with this guideline. Non-complying gates shall be secured in the open position in a manner approved by the Fire Department.

The installing contractor shall provide the Fire Department two (2) transmitters, without cost to the Fire Department.

PURPOSE: To provide guidance and specifications whenever electrically operated access gates are installed across any emergency vehicle access way.

SPECIFICATIONS AND REQUIREMENTS

At the time of permit application, three sets of plans drawn to an indicated scale and specifications must be submitted for review and approval. A Fire Department permit fee of \$75 will be collected upon submittal of plans. Once the installation is complete, call 226-8991 and schedule a fire inspector to verify site and finalize permit.

Plans and Specifications:

Three sets of 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:

1. Site plan with north arrow, roadway and gate dimensions
2. Location and length of underground roadway detector loop
3. Manufacturers' specifications sheets detailing the voltage, current, radio frequency, power cable and coding for the proposed system
4. Battery backup for power failure or explanation of how gates can be opened in the event of power failure.
5. Detailed vicinity map
6. Letter from AVI transmitter company stating that they are shipping two transmitters to CCFD for this project.

Installation Specifications:

1. Gates must have a minimum clear opening width of 20'-0".
2. Gates must begin automatic opening sequence at a point no closer than 25'-0" as measured from the center of the gate.
3. Electrically operated access gates must be equipped with an Automatic Vehicle Identification System, utilizing a standard roadway loop to a vehicle detector/receiver which is to be mounted on Fire Department emergency response vehicles.
4. Underground roadway loop must extend across center of road to be within 2' 0" of right and left sides of access lane.
5. 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 cables
 - e. Coding – codes must transmit every 15 ms.
6. The emergency vehicle access code shall be the same code as that is utilized for the systems safety loop. It is the manufacturer's responsibility to insure that the Emergency Vehicle Code is identical for all installations within Clark County.

Inspection:

A final inspection, conducted by the Fire Department, is required prior to placing the Automatic Vehicle Identification System into use. The following conditions apply:

1. Approved plans must be provided on site at time of inspection.
2. Inspections must be scheduled a minimum of 24 hours in advance.
3. Installations must conform to approved plans.
4. As condition of final approval, a satisfactory operational test must be witnessed by the Fire Prevention Bureau.

Operational Testing:

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