



## **STEPS TO OBTAIN AUTOMATIC VEHICLE ACCESS GATE PERMIT**

- ❑ Bring **two** sets of plans to City Hall (200 W. Washington), 2<sup>nd</sup> floor.
- ❑ Obtain “approved” Zoning stamp for plans at **Counter 6**
- ❑ Take the **two** sets of approved plans to the **Fire Plan Review Office** 10<sup>th</sup> floor.
- ❑ Complete the plan review application.
- ❑ Identify the number of gates to be installed.

- Provide name and address of property / owner.
- Provide name and address of the installing contractor.
- New contractors will need to provide the following 3 items:

State Contractors License(s) / State Privilege Number / City Privilege Number

- The owner may be listed as the contractor, on manual gates **ONLY**.
- ❑ After plan review is completed plans and permit(s) can be picked up at the Fire Prevention Office. At this time a minimum inspection fee will be collected.
- ❑ A **separate** Fire permit and electrical permit is required for each automatic gate. (An approved site plan **is not** a permit.)
- ❑ If applying for an automatic gate permit bring **two** sets of plans, after receiving Fire approval, to 2<sup>nd</sup> floor **Counter 5** for electrical and building safety review and permit. (See “Automatic Gate Electrical Requirements” for further information)
- ❑ Electrical green tag must be obtained for **GATE OPERATORS** prior to final gate inspection.
- ❑ Stamped, approved plans and permit must be on site for final inspection.

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## AUTOMATIC VEHICLE ACCESS GATE SPECIFIC PLAN REQUIREMENTS

- Site plans, showing street address, location of gate(s), orientation to streets, property line and point of compass. (North Arrow)



- Drawing to be to scale and include a graphic representation of the scale.
- Drawing should be legible and dedicated to the specific system being installed. (Vehicle Access Gates)
- Minimum of 20-foot wide, clear access opening on **ENTRANCE** and **EXIT** or a combined 24-foot wide 2 directional clear access opening.
- Forty-five (45) foot centerline radius on curves. (Fire Department may require additional width opening when a 45-foot fire apparatus turning radius cannot be met.)
- When road is over 300 feet, a twenty-five foot (50') vehicle passing point must be provided.
- A Fire Department approved Knox key switch is located 5½ feet above grade on **ENTRANCE** and **EXIT** side of gate.
- The entrance Knox switch shall be located above the residence's keypad, 5 ½ feet from grade
- The City of Phoenix approved Knox key switch shall be used for 24 hour Fire Department access. When activated, the gate will remain in the open position until de-activated by the Fire Department. Only when deactivated will the gate resume normal operation.
- Fire Department approved Knox key switch will open both the entrance and exit side of gate when activated.
- Fire Department approved Knox switch must bypass all free access loop systems.
- The key switch shall be located below the sign labeled "FD ACCESS". The sign shall be 8" X 4" with a thickness of .080 aluminum and with rounded corners. The sign face shall have a white 3M-diamond grade reflective sheeting (DG<sup>3</sup> 4090 series or equivalent) applied as a background to the aluminum plates. Lettering and graphics shall be one of the following:

- A. 3M Scotchlite acrylic, transparent, electronic cuttable film (red 1172 series) inverse cut to allow white reflective background to show through.
  - B. Screen-printed using 3M 880I or 880-00 series traffic sign red translucent ink.
  - ❑ Battery backup is installed on **ENTRANCE** and **EXIT** Gates.
  - ❑ Residential/Multifamily: Gate will open on battery backup during loss of power and remain open until the power is restored.
  - ❑ Commercial/Industrial: Properties remain closed until the emergency gate switch is activated, then open on battery backup.
  - ❑ Activated access gate shall open at a rate of one foot per second. Parking barrier arms will open or clear in approximately two seconds.
  - ❑ All multifamily housing developments, including single-family homes (5 or more), shall have preemption devices on each gate.
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## **REQUIREMENTS FOR PREEMPTION DEVICES**

**Preemption device shall be installed on ALL apartments, condominiums, town homes, garden homes, mobile home parks, and developments of five or more single-family homes constructed after January 1, 2001.**

- ❑ Detectors shall be mounted 8 to 10 feet from grade.
- ❑ Detectors shall be located behind the access gate (property side).
- ❑ Detectors shall be mounted on a 4"x 4" metal post, not on guidepost.
- ❑ Post shall be cemented 18" below grade.
- ❑ Detectors shall activate 150 ft from gate.
- ❑ Each gate shall have two individual detectors or an approved Tomar dual strobe switch, model 2795-2.
- ❑ Detectors shall point toward the **APPROACH** and **EXIT** path of the emergency vehicle.
- ❑ Detectors' sight path shall be free of visual obstructions such as signs, covered parking canopies, and vegetation.

- Individual detectors shall be mounted together with the power module in a dual detector mounting box, or with an approved Tomar dual strobeswitch, model 2795-2.
- Knox key switches shall still be provided as a manual backup.
- The entrance Knox switch shall be located above the residence's keypad, 5 ½ feet from grade.
- The exit Knox switch shall be located on the 4"x 4" preemption post, recessed 5 ½ feet from grade, with the detectors.

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## **AUTOMATIC VEHICLE ACCESS GATE ELECTRICAL REQUIREMENTS**

- Obtain electrical permit from the City of Phoenix, Development Services Department, 200 W. Washington Street, 2<sup>nd</sup> floor, Counter 5.
- The Electrical Site Plan must show:
  1. An individual branch-circuit (minimum 20 ampere) and raceway (minimum ¾ inch) serving each automatic gate.
  2. The service equipment location and/or panel board location.
  3. The panel board schedule and new and/or revised load calculations.
  4. The location of the automatic gate operator(s), control equipment and actuation devices.
- A **separate** electrical permit shall be obtained for each automatic vehicle gate **unless** the vehicle gate(s) are shown on the scope of work for another permit. **If the gates are included in another permit, make sure the gates are scheduled for a final electrical inspection before that permit is closed out.**
- Have conduit depth inspected for the gate operators, preemption detectors, resident keypad and Knox key switches. Obtain a **"Rough Electrical Green Tag"** that reads **"Underground Electric for Gates."** Marking on the plans **will not** be accepted by the Fire Department. Without this, when the electrical final is done, the conduits will need to be re-exposed.
- Have **final** electrical inspection for gates. Green tag must read **"Final Electrical for Gates."** **Marking this on the plans will not be accepted by the Fire Department.** This green tag must be obtained **before** the gate company can call for a Fire Department inspection.

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**Gate installations and modifications shall be subject to final field inspection  
Electrical green tag for gate must be obtained prior to field inspection**

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