



Emergency Access Controlled Gate Systems

Emergency vehicle access onto properties that are equipped with automatic security gates or vehicle access/egress gates installed across required fire lanes, shall follow the following guidelines. Each gate requires a separate permit.

General Notes

- A **separate** fire permit is required for each automatic gate. (An approved site plan **is not** a permit.)
- The gate motor shall be the type that the drive gear disengages on power failure.
- The City-approved Knox® key switch (KS2) shall be used for 24-hour Fire Department access. The emergency key switch, when activated, shall bypass any occupant control and/or loop systems. 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.
- The key switch shall open both the entrance and exit gates when gates are in close proximity to each other.
- The Knox® key switch shall be mounted 5 ½ feet above grade. (*See Figure 1- Location Shown on Plan*)
- The key switch shall be located below a sign labeled "FD ACCESS". (*See Figure 2 – Control Equipment Installation Diagram*)
- The minimum clear opening width shall not be less than the width of the required fire lane or access drive. The gate and/or its components shall not encroach on the minimum fire lane width (24-feet or 26-feet) and the minimum unobstructed height of 14 feet shall be maintained.
- Gate operator(s) shall open at a rate of one foot per second. Parking barrier arms will open or clear in approximately two seconds.
- The primary drive gate type that may be installed across fire lanes shall be the sliding type.
- In the event of power failure, the gate shall open freely. It shall be capable of being opened manually by one person of average stature.
- Gate systems shall comply with UL 325 and ASTM F 2200.

Primary or Main Gate

- Primary gate is defined as the drive or access point(s) designed as a primary point of ingress/egress for emergency vehicles.
- Gate signage shall *be installed*.
- The following access systems shall be installed on all Primary Gates:
 - Opticom IR platform receiver switches and transmitters
 - KS2 Knox® Switches
 - Electrical Disconnect
 - Red Emergency Activation strobe

Automatic Secondary Gates (including Main Gates to Storage Facilities)

- A Secondary Gate is a drive or access point designed as a secondary or back-up means of ingress/egress for emergency vehicles.
- The following access systems shall be installed on all Secondary Gates:
 - KS2 Knox® Switches
 - Electrical Disconnect
 - Red Emergency Activation Strobe Light
 - “Exit Only Sign” (*See Figure 3,*)

Pedestrian Gate

- Pedestrian gates shall open fully with a minimum clear span of 48 inches and be provided with a latch or other means of securing them in the open position. Automated pedestrian gates shall open freely upon loss of power. When required by the Fire Marshal, one or multiple pedestrian gates shall be released by a Knox Lock or by a key switch mounted in an approved box.

SYSTEM ACCESS COMPONENTS

Opticom IR Platform Receiver

- Shall be mounted 8 to 10 feet from grade.
- Shall be located behind the access gate (property side).
- Shall be mounted on a 4” x 4” metal post, not on a guidepost, and shall be cemented 18” below grade.
- Detectors shall activate 150-feet from the gate.
- Each gate shall have two individual detectors or an approved Tomar dual strobe switch.
- 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. *Three head detectors shall be used for 90 degree turning layouts.*
- *RTC Model 711 or 721 Gate opener Kit required.*

Knox® Series 3500 Key Switch

- Knox® key switches shall be provided as a manual backup.
- The entrance Knox® switch shall be located above the property’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.
- Upon activation of the key switch, the affected gate shall automatically open to a locked open and disabled condition. The system will require a manual reset to close the gates after emergency activation.
- A sign identifying “FD ACCESS” shall be mounted above the KS2 Switch.

Red Emergency Activation Strobe

- All automated gates must also be equipped with one flasher unit and one external lamp assembly with a red globe and guard to be mounted separately from the enclosure.
- The light shall be visible from both sides of the gate, be mounted at the top of the fence within two (2) feet of the gate opening, and flash upon the gate being activated by the Opticom IR platform system or key switch.
- The strobe shall continue to flash as long as the gate is being held open by the emergency access system.

Numbered Keypad

- Public safety access shall be installed at a readily accessible location at each automated drive gate for public safety personnel who may require entry in other emergencies.
- The numbers making up the code shall be determined by the Fire Marshal and shall be consistent on all gate systems installed throughout the City. The numbers shall not be changed unless ordered by a written, notarized directive from the Fire Marshal.

Electrical Disconnect

- The gate shall be opened by means of an electrical power disconnect switch in a weatherproof box:
 - The box shall be red
 - The box shall be mounted on the entry side of the gate within five (5) feet of the gate
 - The box shall be at least five (5) inches high and five (5) inches wide
 - The box shall be clearly labeled "Fire Dept." in white letters one inch tall with one-quarter inch stroke
 - A Knox® padlock shall secure the box
 - The box must be clearly visible and accessible

Electrical Equipment Protection

- All electrical equipment shall be protected from physical damage and weather by approved weather tight boxes or housings per NFPA 70.

911 Pin-Lock System for Swing Type Gates

- The 911 Pin-Lock system shall be incorporated into all swing-type security gates to provide a manual release for the fire department. In addition, the owner can disconnect the swing-arm without contacting the fire department. (*See Figure 4 – 911 Pin-Lock System*).

Performance Test

- Gates and gate systems shall be tested by the Fire Marshal's Office upon completion of the installation.
- All Fire Department Signage must be in place prior to acceptance testing.
- Gates shall not be placed into operation until after the acceptance test is approved.

Each Plan Submission Shall Include:

- Crowley Fire Department Permit Application.
- Site plan indicating the locations of all vehicle access gates.
- Type of gate to be used and a list or diagram of components shall be indicated at each location.
- Scope of Work.
- Manufacturer's Specification sheets.

NOTE: All signs must meet specifications as outlined in the Fire Department Sign Specifications

- Figure 1: Property side of gate example
- Figure 2: Control equipment entrance diagram example
- Figure 3: Exit Only sign diagram with FD Access
- Figure 4: Opticom equipment order form
- Figure 5: 911 – Pin-Lock System for Swing type Gate

Figure 1 - Property Side of Gate



NOTES:

- 1 DETECTORS SHALL BE MOUNTED ON 4" X 4" POST 8FT TO 10 FT FROM GRADE
- 2 FIRE DEPT. APPROVED DUAL STROBE SWITCH DETECTOR MODEL 2795-2
- 3 F.D. APPROVED KNOX KEY SWITCH MODEL #3502 FLUSH MOUNTED IN 4" X 4" POST

FINAME: PRE-GATE.CDR

REQUIRES PERMIT

FIRE DEPARTMENT
MULTI FAMILY
PREEMPTED AUTOMATIC GATE
1 HFBT7 Detail 7.0 AUG 2003

Figure 2 - Entrance Diagram

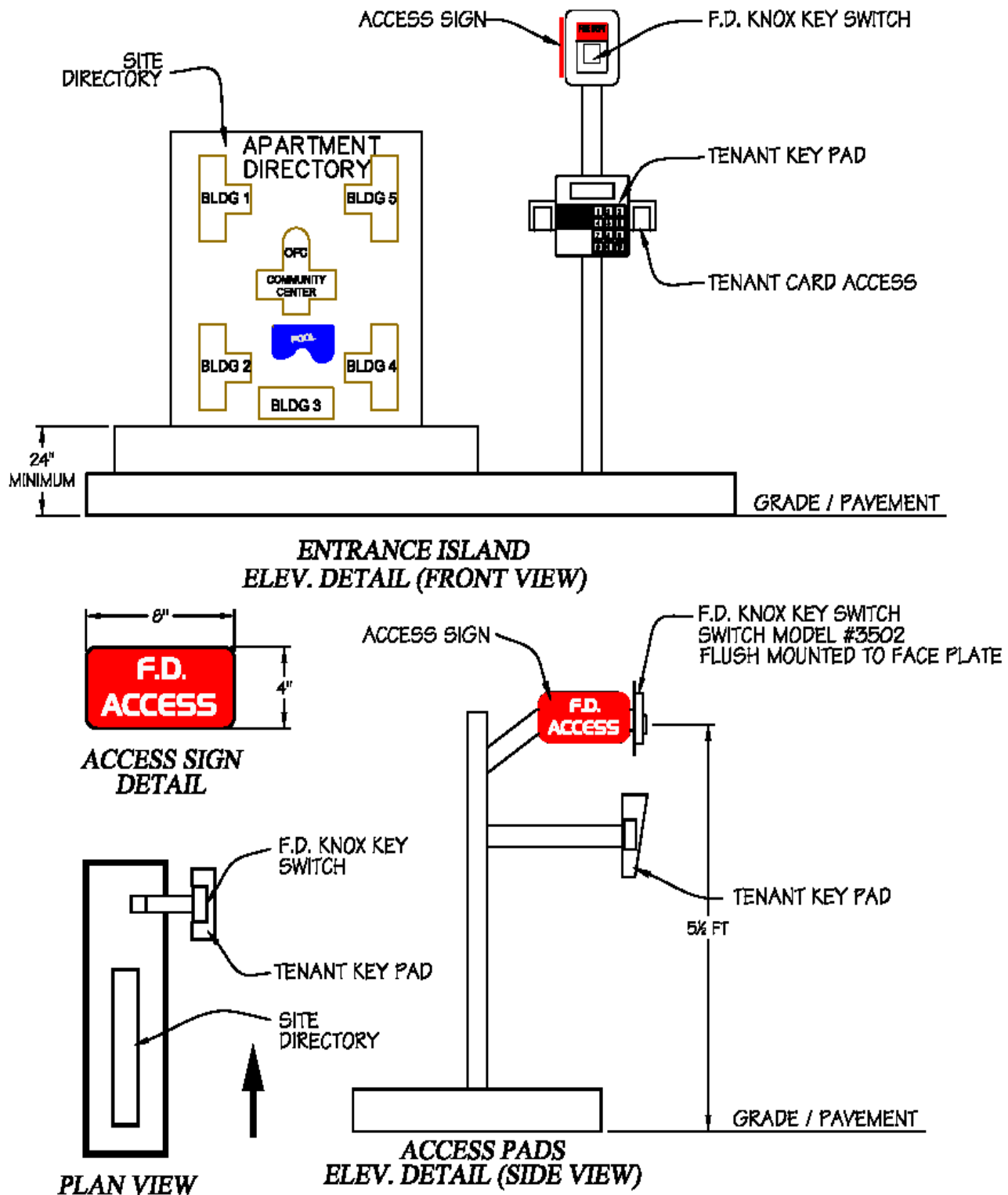


Figure 3 - Exit Only Sign Diagram with FD Access

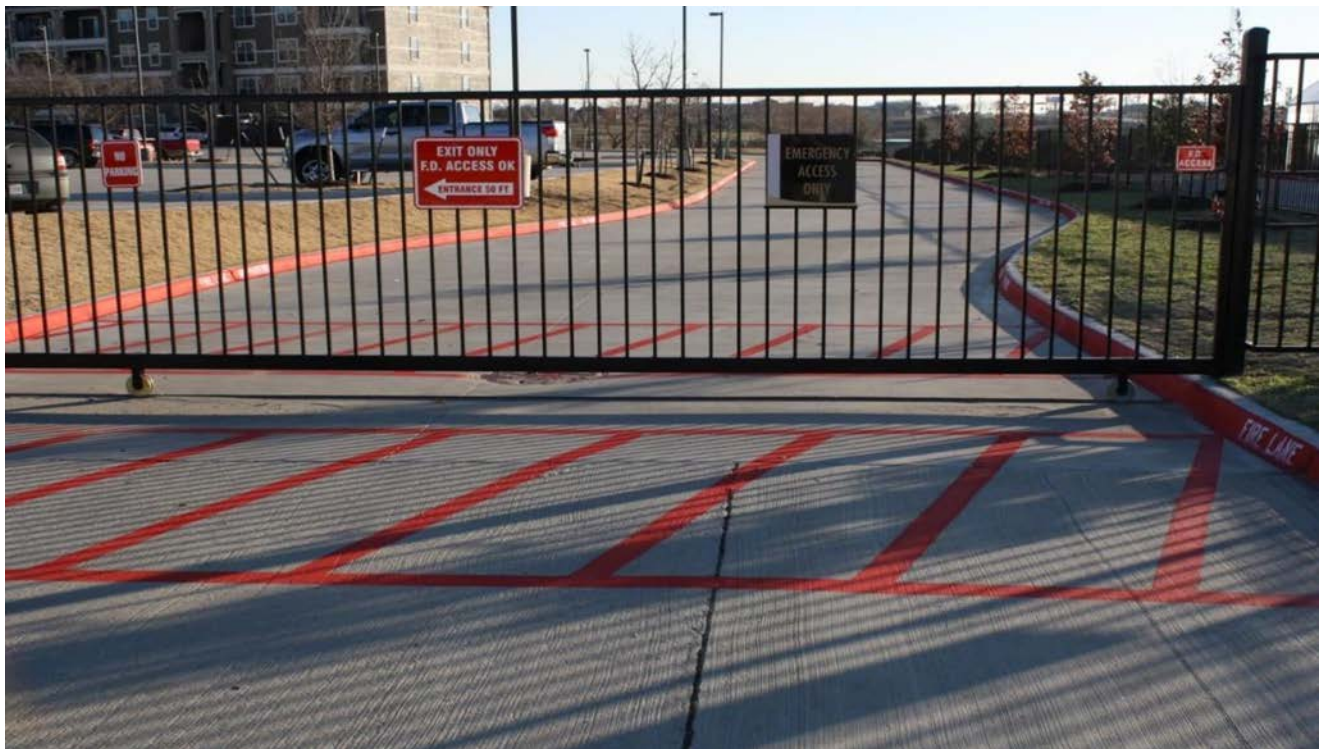
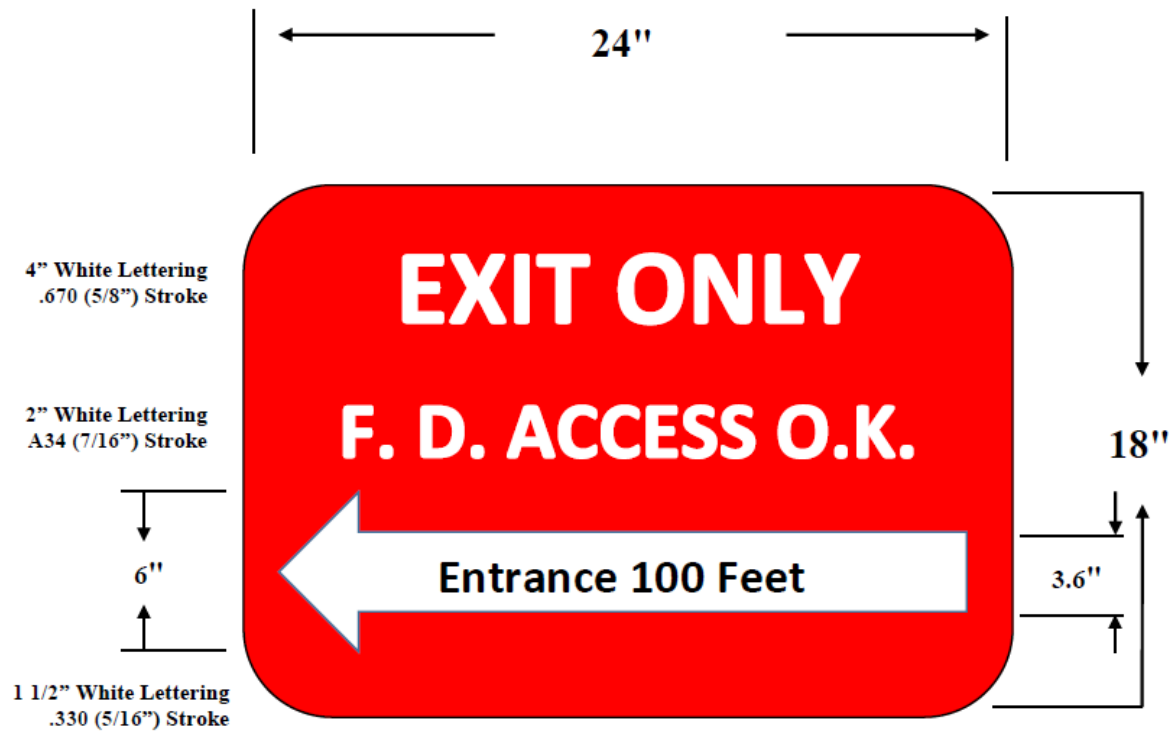


Figure 4 – 911 Pin-Lock System for Swing Gates

The 911 Pin-Lock Too™ allows a swing gate to meet fire department requirements for a manual release, while still allowing the consumer to disconnect the gate arm from their gate without having to call the fire department.



The 911 Pin-Lock Too™ incorporates two blocks and one double pin.



Secure the bottom block with a 3/8" diameter and a 1" x 1" shackle padlock. Insert the other end of the pin up through the gate bracket and the swing gate arm.



Place the other block on the pin and secure with a Knox™ Padlock.