ADOPTED CODES (with City of Elko amendments):

- 2009 International Fire Code (IFC)
- 2009 International Building Code (IBC)
- 2009 National Electric Code (NEC)
- 2007 NFPA 13
- 2007 NFPA 72

City of Elko Fire Department
Fire Prevention Bureau
911 W. Idaho Street
Elko, NV 89801
775-777-7345 Phone
775-777-7359 Fax
www.jcarson@ci.elko.nv.us
FIRE INSPECTION GUIDE FOR COMMERCIAL BUILDINGS
(This document is an attempt to identify the items inspected during the course of normal fire inspections. This document is not to be construed as a complete guide or all encompassing. Additional items may be required to be inspected as deemed necessary by the Fire Inspector.)

For Inspection (775) 777-7352

Note:
The phone number is to be used to request all fire related inspections. When requesting a new construction inspection you will need your Permit Number. The Permit number is (5) numerical digits. You will also need the inspection code for the inspection you are requesting (see below) and a phone number you can be contacted at. The Fire Prevention Bureau will contact you to schedule the inspection after it is entered into the system. Inspection shall be scheduled 72 hours in advance. Please allow 24 hours for call backs. We currently do not allow for “same day inspections”.

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Note:
Only use the following phone number ( 775 777-7345) if you have a general Fire Code question or difficulty (non-emergency). Please leave your name, telephone number and a brief message and someone from Fire Prevention will call you back.
Permits

The following verbiage applies to all Fire Permits. Please make note of these requirements.

**General Notes:**

**Excerpts from the International Fire Code – 2009 edition**

105.4.4 Approved documents.

Construction documents approved by the fire code official are approved with the intent that such construction documents comply in all respects with this code. Review and approval by the fire code official shall not relieve the applicant of the responsibility of compliance with this code.

106.3 Concealed work.

Whenever any installation subject to inspection prior to use is covered or concealed without having first been inspected, the fire code official shall have the authority to require that such work be exposed for inspection.

It should also be noted that **permits are not transferable**. You should always ensure that the permit is issued to the company that is performing the work. In the event that the permit was issued with the Building Permit, you should check to see that the permit is issued to the correct company. In the event that the permit was issued to a different company or there is a change in the company that is performing the work, a change in contractors must be submitted to the Fire Department.

A change in contractors will require two (2) sets of plans be submitted for review. Information on the company performing the work must appear on the drawings. Any reference to other companies must be removed. A new set of approved plans and a new permit will be issued. No work can be performed on the fire protection system until the proper permit is issued.

**Underground Fire Line & Flush Inspection**

All private fire lines that are connected to the City of Elko water system are inspected and approved by the City of Elko Fire Department up to and including the floor flange in the building. The Fire Department must witness all fire line flushes. The following information pertains to fire lines that are installed on private water systems and therefore must be permitted and inspected by the Fire Department.

1. The installing contractor shall have a valid Nevada State Fire Marshal “Certificate of Registration and an “On Site Competent Person” with supporting documentation (C o R Card). No fire inspections will be conducted until a permit is obtained and the competent person’s documentation is provided.

2. An Underground Contractor’s Material and Test Certificate shall be provided. The certificate shall be provided prior to the flush inspection. The flush inspection shall not be conducted without this documentation. The Underground Contractor’s Material and Test Certificate can be found in NFPA 24 – 2007, figure 10.10.1.

3. The approved plans shall be consulted to verify meeting the requirements of NFPA 13 and 24 and can include the following:
   a. Size of the piping.
b. Type of piping material.
c. Depth of cover over the piping.
d. Isolation valves.
e. Proper configuration of:
   i. Joint restraints.
   ii. Protective wrap (polywrap) of piping, including fire riser flange spigot. (Applies to ductile piping only.)
   iii. Direction changes.
   iv. Proper fittings passing below foundations.
   v. Double Backflow assembly (if exterior to the building).

4. All valves within the system are to be in the open position, including the fire hydrant sectional valve.

5. A hydrostatic test of all piping at two hundred (200) psi for two (2) hours or fifty (50) psi in excess of the system working pressure, whichever is greater shall be witnessed by the City of Elko Fire Department.

6. The pressure after the hydrostatic test shall be relived to confirm that the test gauge returns to zero. A gauge that does not return to zero could be an indication that the gauge is broken or “pegged” and must be replaced and a new test conducted.

7. Flushing of all piping with city water shall be observed for a sufficient amount of time to ensure that the piping is clear and free of all debris. The following flow rates shall be provided to produce a minimum velocity of ten (10) feet/second in the pipes.

<table>
<thead>
<tr>
<th>Pipe Size (inches)</th>
<th>Flow Rate (gpm)</th>
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<tbody>
<tr>
<td>4</td>
<td>390</td>
</tr>
<tr>
<td>6</td>
<td>880</td>
</tr>
<tr>
<td>8</td>
<td>1,560</td>
</tr>
<tr>
<td>10</td>
<td>2,440</td>
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<tr>
<td>12</td>
<td>3,520</td>
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</tbody>
</table>

**Note:**
The fire line shall be visible during the hydrostatic testing. Center loading of the pipe is acceptable; however, all joints, valves, joint restraints, and fittings shall be visible. **DO NOT** cover the fire line until the inspection is approved. The Fire Department inspection of the fire line consists of the fire line supply piping from the inside / outside of the building(s) to the point of connection to the supply water main at the street or to the water main loop. Stacking of the fire sprinkler riser onto the fire line is not allowed until the fire line is approved and flushed.

**Rough Fire Sprinkler System Inspection**

1. The inspection shall be scheduled by the fire sprinkler contractor.
2. The installing contractor shall have a valid Nevada State Fire Marshal “Certificate of Registration” and an “On Site Competent Person” with supporting documentation. No fire inspections will be conducted until a permit is obtained and the competent person’s documentation is provided.
3. The Approved Plans shall be consulted to verify meeting the requirements of NFPA 13 and can include the following:
   a. Proper type of fire sprinkler piping.
b. Double Backflow assembly for size, type, and direction.
c. Confirm that the installed piping does not have excessive changes of direction that are not indicated on approved plans. (Excessive use of extra fittings, such as elbows may effect hydraulic calculations and require re-submittal for review and approval).
d. Proper size of the fire sprinkler piping.
e. Proper pipe hangers and supports with the correct spacing.
f. Sway bracing is installed per City of Elko code requirements. Sway bracing is required at top of fire risers and major changes of direction.
g. Proper type, orifice, and temperature of all fire sprinklers.
h. Proper clearance of fire sprinklers from ALL obstructions.
i. Check for correct distances between the fire sprinklers, off of walls, maximum coverage per fire sprinkler, and distance below roof deck. Also, the deflector orientation to roof deck.
j. Check for installation of orifice in inspector’s test. (Orifice shall be the same size as the smallest orifice installed in the system).
k. Check to ensure fire sprinklers are not painted. Painted fire sprinklers shall be replaced. Painted sprinkler heads shall not be cleaned.
l. All control, auxiliary, drain, and inspector’s test valves shall not be located more than seven (7) feet above finish floor or grade.
m. Access panels shall be provided for all valves located inside a wall or concealed space.

4. A hydrostatic test of all piping at two hundred (200) psi for two (2) hours or fifty (50) psi in excess of system working pressure whichever is greater shall be witnessed by The City of Elko Fire Department.

5. Where a tenant improvement addition or modification is made to an existing fire sprinkler system affecting more than twenty (20) fire sprinklers, the new portion shall be isolated and hydrostatically tested at two hundred (200) psi for two (2) hours or fifty (50) psi in excess of system working pressure whichever is greater. Modifications that cannot be isolated shall not require hydrostatic testing in excess of system working pressure.

6. Tenant Improvement modifications affecting twenty (20) or fewer fire sprinklers shall not require hydrostatic testing in excess of system working pressure.

7. The pressure after the hydrostatic test shall be relived to confirm that the test gauge returns to zero. A gauge that does not return to zero could be an indication that the gauge is broken or "pegged" and must be replaced and a new test conducted.

8. Verify a listed and approved pressure relief valve is installed on all grid type fire sprinkler systems.

9. The following items shall be verified regarding the Fire Department Connection (FDC):
   a. Fire Department Connection shall be within one hundred (100) feet of a fire hydrant.
   b. Fire Department Connection shall be located on the address side (front) of building or located on the building in the fire department access approach as approved.
   c. Fire Department Connection shall be installed between eighteen (18) and forty eight (48) inches above finish grade.
d. The swing check valve is to be installed as close to the Fire Department Connection as possible and is installed in correct direction.

e. Hose threads are NST (National Standard Thread). Phoenix or Tempe thread types are not acceptable.

f. The 2.5 inch approved caps or plugs are installed.

g. The Fire Department Connection is not to be obstructed (i.e.: electrical transformers, landscaping, etc.).

**Rough Fire Alarm System Inspection**

1. The inspection shall be scheduled by the fire alarm contractor.

2. The installing contractor shall have a valid Nevada State Fire Marshal “Certificate of Registration” and an “On Site Competent Person” with supporting documentation. No fire inspections will be conducted until a permit is obtained and the competent person’s documentation is provided.

3. The approved plans shall be consulted to verify meeting the requirements of NFPA 70 and 72 and can include the following:
   a. Proper wire type (i.e.: plenum, riser, underground, etc.).
   b. Proper wire gauge.
   c. Verify that a Class „A“ fire alarm system has been installed. All fire alarm systems installed in the City of Elko shall be Class „A“ fire alarm systems. This includes all modules. No exceptions.
   d. Verify support of all of the wiring is per NFPA 72 and the National Electrical Code (NEC). (Wrapping fire alarm wiring around steel nails, connecting it to ceiling grid support wires, and using metal staples are not approved methods of securing or supporting fire alarm wiring).
   e. Verify the support of the conduit and back boxes, including protective bushings in conduit and junction boxes.
   f. All exposed wiring installed below seven (7) feet shall be installed in conduit.
   g. Verify location of all fire alarm system devices.
   h. Verify that ALL notification appliances, pulls stations, heat detectors, smoke detectors, and duct detector LEDs located in ALL walls and above ALL ceilings are installed with approved back boxes. This applies to ALL fire alarm systems installed in commercial buildings. Mud rings only are NOT acceptable mounting methods.
   i. Verify the location of the fire alarm control panel. (If the fire alarm control panel is located in the same room as the fire sprinkler riser and that room has a door that provides direct access to the outside; then an annunciator strip pad is not required).
   j. Verify that the location of fire alarm control panel is in a temperature controlled space.
   k. Verify that the fire alarm control panel and any notification appliance booster panels are mounted to a maximum height of six (6) feet to the top of the cabinet.
   l. Verify the location of the remote annunciator, if required.
   m. Verify the proper separation of the fire alarm wiring. (A minimum of four (4) feet separation between the wiring on the horizontal runs and one (1) foot separation on the vertical runs shall be provided).

4. Verify that the fire alarm wiring is not painted. **Fire alarm wiring that is painted shall be replaced.**
5. Verify that tamper switches are installed on ALL fire sprinkler system control valves, including control valves on any outside double back flow assembly feeding the fire sprinkler system.

6. Verify any duct detectors required by the Mechanical Code are installed.

7. Verify that any kitchen hood system or special hazard fire suppression system is connected to the fire alarm system.

8. Verify that any door controls, such as door magnets or access controls, is connected to the fire alarm system.

9. Verify that the power for the fire alarm system and/or remote power boosters comes from a reliable power source. In the event that the project is in a multi tenant building, power must come from the house electrical panel or the same electrical distribution panel as the fire alarm system control panel. Power derived from electrical panels that can be turned off when the tenant moves out is not considered reliable.

**Final Fire Sprinkler System Inspection**

1. The inspection shall be scheduled by the fire sprinkler contractor. **NOTE:** Final inspections must be coordinated with the fire alarm contractor. Final inspections are integrated and system function must be demonstrated for each permit.

2. The installing contractor shall have a valid Nevada State Fire Marshal “Certificate of Registration” and an “On Site Competent Person” with supporting documentation. No fire inspections will be conducted until a permit is obtained and the competent person’s documentation is provided.

3. The fire sprinkler contractor shall provide an Aboveground Contractor Material and Test Certificate for each system installed. The final fire inspection shall not be conducted without this documentation. This certificate is found in NFPA 13 – 2007, figure 16.1.

4. Consult the approved plans to verify meeting the requirements of NFPA 13.

5. Verify tamper switch and flow switch components are installed and functioning on the fire sprinkler system.

6. Observe a main drain test. Document the static and residual pressures; then verify that the residual pressure at the base of the riser meets or exceeds the required system demand pressure listed in the approved hydraulic calculation summary on the approved plans. Also, verify that the hydraulic placard and the fire sprinkler system general information sign on the fire riser assembly are correctly filled out. (See the example at the end of this document along with a blank form to be used)

7. Verify that ALL required fire sprinkler system signage is in place. Each valve shall have a sign attached indicating its function.
   a. Main drain.
   b. Access panels shall be provided for all valves located inside a wall or concealed space. Signage shall be provided on the outside of access panel indicating type of valve that is concealed within. (This includes Fire Department Connection check valves).
   c. Control valves.
   d. Inspectors test.
   e. Fire Department Connection.
f. Hydraulic Placard. (If hydraulic placard is located on a fire riser that will be exposed to corrosive conditions then hydraulic placard shall be aluminum and hydraulic information shall be engraved or stamped).

8. Verify that the spare fire sprinkler head cabinet is installed in an area that will not exceed one hundred (100) degrees Fahrenheit and has the following contents; the correct number of spare fire sprinkler heads, correct size fire sprinkler head wrench, and a NEW current issue of NFPA 25. (An ILLEGALLY copied NFPA 25 is NOT acceptable).

9. Verify the floor is sealed where the fire riser flange spigot penetrates the building.

10. Verify that all fire rated walls and exterior wall pipe penetrations are sealed by approved means.

11. Walk through building to verify;
   a. Verify proper placement, type, and temperature of fire sprinklers.
   b. Verify that ALL fire sprinklers are unobstructed.
   c. Verify fire sprinklers are not painted. Painted fire sprinklers shall be replaced. Painted fire sprinkler heads shall NOT be cleaned.
   d. Verify fire sprinkler escutcheons are in place and properly installed per the fire sprinkler manufacturer data sheet.

12. Observe the activation test of fire alarm system notification appliances and electric bell on the fire sprinkler system water flow through the inspector’s test valve. Alarms shall activate in ninety (90) seconds or less with the flow switch adjustment setting on or greater than “B”. Document the time it takes the alarms activate.

**Final Fire Alarm System Inspection**

1. The inspection shall be scheduled by the fire alarm contractor. **NOTE:** Final inspections must be coordinated with the other fire contractors (i.e.: fire sprinkler, kitchen hood, special system, etc.). Final inspections are integrated and system function must be demonstrated for each permit.

2. The installing contractor shall have a valid Nevada State Fire Marshal “Certificate of Registration” at the end of this document) and an “On Site Competent Person” with supporting documentation. No fire inspections will be conducted until permit is obtained and the competent person’s documentation is provided.

3. Provide a NFPA 72 Inspection and Testing Form. The form shall be completed and present at the final fire alarm inspection. Final fire inspection shall not be conducted without this documentation. This documentation is found in NFPA 72 – 2007, figure 10.6.2.3.

4. The approved plans shall be consulted to verify meeting the requirements of NFPA 70 and 72.

5. Verify the proper location, type, and candela setting of all fire alarm notification appliances.

6. Observe fire alarm system functional tests of all fire alarm devices, including duct smoke detectors.

7. A copy of the 3rd party test and balance report for the installation of the duct detectors is required to be supplied to the Fire Marshal. If the report satisfies the Fire Marshal that the duct detectors have been tested and report to the fire alarm system correctly, further testing of the duct detectors are not necessary.
8. Verify that ALL notification appliances are synchronized per NFPA 72 requirements.
9. Observe the activation test of the fire alarm system notification appliances, including the electric bell on the fire sprinkler system water flow through inspector's test valve. All alarms shall activate in ninety (90) seconds or less with the flow switch adjustment setting on or greater than “B”.
10. Observe the activation test of the fire sprinkler control valve tamper switches. On activation of the tamper switch a supervisory signal shall be received at the fire alarm control panel.
11. If a kitchen hood extinguishing system is installed; observe function tests of the fire alarm system notification appliances upon kitchen hood extinguishing system activation.
12. Verify the following from all tests;
   a. Measure decibel reading of audible appliances five (5) feet above finish floor in the farthest point of the room from any device. Decibel reading shall be fifteen (15) dBA above ambient noise level and five (5) dBA above peak sound levels lasting sixty (60) seconds or more.
   b. Verify proper voltage drop. The maximum allowed voltage drop is 4.4 volts. (The installing contractor is to provide a voltage meter at inspection)
   c. Verify a Class „A“ fire alarm system is installed.
   d. Verify the proper size of the batteries and verify that batteries are date marked with; month / year
   e. Verify duct detectors provide the following; unit shuts down on activation of the duct detector, on activation of the duct detector a supervisory signal shall be received at the fire alarm control panel, and if a ceiling is installed, then LED provided at ceiling level operates when duct detector is activated.
   f. Observe a twenty four (24) hour stand by battery power test. The electrical breaker that provides power to the fire alarm control panel shall be turned off twenty four (24) hours prior to this test. At the end of the twenty four (24) hours an audible test shall be conducted for five (5) minutes.
   g. Verify that the circuit breakers for the fire alarm control panel and electric bell power are secured (with breaker locks), identified on electric panel schedule, and are designated power circuit breakers.
   h. Verify that the circuit breakers for the fire alarm control panel power circuit breaker number and electrical panel location is identified inside or near the fire alarm control panel.
   i. Verify that all signals are received at the fire alarm control panel.
   j. Verify that all signals are received at the annunciator, if applicable.
   k. Verify that all signals were received at the off-site, third party, listed monitoring agency. A fire alarm system monitoring activity report shall be faxed to Fire Prevention at 775-777-7359 after completion of final testing. Monitoring activity report shall include the twenty four (24) hour battery power fault.

**Kitchen Hood Extinguishing System Inspection**

1. The inspection shall be scheduled by the kitchen hood suppression system contractor.
2. The installing contractor shall have a valid Nevada State Fire Marshal “Certificate of Registration”. No fire inspections will be conducted until permit is obtained.
3. The approved plans shall be consulted to verify meeting the requirements of NFPA 17A.
4. The installing contractor shall provide the latest system manual as provided by the manufacturer to verify the system installation.
5. Verify the following that can include the following:
   a. Hood size.
   b. Location of manual pull station.
   c. Signage for manual pull station.
   d. Location, size, and type extinguishing agent.
   e. Type and size of firing cartridge (if applicable).
   f. Proper pipe size and type.
   g. Proper pipe support.
   h. Proper hood penetration seals.
   i. Proper nozzle type.
   j. Verify that nozzle height is per the manufacturer requirements.
   k. Verify number of allowed fittings for system.
   l. Verify link installation placement, type, and temperature.
   m. Verify nozzle locations using the factory laser pointer device, if applicable. The installing kitchen hood extinguishing system contractor shall provide the laser. No inspection will be conducted without this testing device.
   n. Observe air movement through all system nozzles.
   o. Observe test of fusible link.
   p. Observe activation of manual pull station.
   q. Observe deactivation of all fuel sources under hood during all tests. (Electric and/or Gas)
   r. Observe deactivation of the “make up air” upon activation of the system. (Exhaust air shall remain working).
   s. Observe the activation of the fire alarm system notification appliances upon kitchen hood extinguishing system activation on all function tests and verify that the signals are received at the fire alarm control panel.
   t. Verify the proper placement of the Class „K“ fire extinguisher. The Class „K“ fire extinguisher shall be tagged, mounted, and located within thirty (30) feet of the cooking equipment.
   u. Verify that the kitchen hood extends a minimum of six inches beyond the edge of the cooking appliances.
   v. Verify that there are no electrical connections (make up) inside the control unit/head. All electrical connections are to be made in approved junction boxes outside of the control unit/head.

**Note:**
Fire alarm system initiating module for kitchen hood fire extinguishing systems shall be a listed and approved CLASS A fire alarm system module. No exceptions.
Final Fire Building and Site Inspection

1. Verify building address size and location on exterior of building.
   a. If the address is located less than eleven (11) foot eleven (11) inches above the finished grade; the address characters shall be a minimum of six (6) inches in height with a minimum one (1) inch stroke in contrast to the building colors.
   b. If the address is located twelve (12) feet or more above the finished grade; the address characters shall be a minimum of twelve (12) inches in height with a minimum two (2) inch stroke in contrast to the building colors.
   c. The address characters shall be visible from the street or road fronting the property and if required, on all fire department approaches.

2. Verify proper location of the lock boxes.
   a. Lock boxes and padlocks shall be directly obtained from the Knox Corporation. NO application OR signature is required from the fire department. THE LOCK BOX AND PADLOCK MANUFACTURED BY THE KNOX COMPANY ARE THE ONLY APPROVED TYPE USED BY THE CITY OF ELKO.
   b. Lock boxes shall be installed at the entrance door and at the fire sprinkler riser room, unless approved otherwise or additional lock boxes are required due to the building configuration.
   c. Lock boxes shall be installed approximately sixty (60) inches above the finished grade to the TOP of the box.
   d. Call 775-777-7345 to have keys lock up in lock boxes when locks are changed.

3. Verify the placement of fire extinguishers.
   a. Verify correct type. (Example: 2-A:10-B:C)
   b. Verify proper location. Fire extinguishers shall be installed a maximum travel distance of every seventy five (75) feet and if possible; mounted near exit doors.
   c. All fire extinguishers shall be service tagged with month / year and mounted a minimum of three feet six inches and maximum of five (5) feet to the top of the fire extinguisher above finish floor or grade and shall be unobstructed from access or view. Provide fire extinguisher signage as required.

4. Verify required exterior and interior building door signage.
   a. Provide the letters „FACP” and „FIRE RISER ROOM” on all doors that give access to the fire alarm control panel and the fire sprinkler riser. This can be accomplished with painted stencil or a corrosive resistant sign with minimum four (4) inch high letters in contrast to the door colors.
   b. Provide the letters “ROOF ACCESS” on all doors that have roof access ladders inside.
   c. Provide on or above the suite front doors the „SUITE NUMBER OR LETTER”. This can be accomplished with self-adhesive characters, stencil, or a sign with minimum four (4) inch high characters in contrast to the door colors.
   d. Provide on the suite back or side doors the „SUITE NUMBER OR LETTER” and „BUILDING ADDRESS NUMBERS”. This can be accomplished with self-adhesive characters, stencil, or a sign with minimum four (4) inch high characters in contrast to the door colors.

5. Fire lanes shall be appropriately marked in ONE of these two options.
   **Option One:** Provide approved signs at a maximum of eighty (80) feet on center. (See the example at the end of this document)
**Option Two:** Paint curbs red. Provide lettering on the curb at a maximum of eighty (80) feet on center; marked **NO PARKING FIRE LANE** in four (4) inch white block letters on the vertical face of the curb.

6. Verify the on site fire hydrants and building fire department connection.
   a. The large (4.5 inch) port shall be facing directly towards the Fire Lane and be equipped with a “STORZ” fitting.
   b. The bottom of the 4.5 inch port shall be installed between eighteen (18) inches and twenty four (24) inches above the finished grade.
   c. Verify a minimum three (3) foot diameter clearance around the fire hydrants. d. Verify fire department connection has proper signage. Additional signage may be required if fire department connection is visually obstructed. (Example; when a parking space is directly in front of the fire department connection.)

**Gate Inspection**

1. Plans and specifications for electric gate systems shall be submitted to the City of Elko Fire Department for review and approval 30 days prior to scheduling gate inspection. For review permit questions please call 775-777-7352.
2. All gates limiting access will be required to provide emergency access controls for Fire Department entry.
3. The gates shall be designed so that the access roadway or turning radius (WB50) shall not be obstructed by the operation of the gate. Minimum set back from the public streets shall be a distance determined by the City Engineer and allow the emergency vehicle the ability to safely operate the lock box or panel. Turning radius from the public street shall be WB50.
4. Clear width of the roadway shall be a minimum of twenty (20) feet clear width on all entrances. Exit roadways shall be a minimum of sixteen (16) feet clear width or larger on all exits. Unless otherwise approved by the fire department.
5. Sub-divisions may have a divided entrance and exit gates. The entrance side shall have a clearance of twenty (20) feet clear width, the exit side sixteen (16) feet clear width.
6. Access controls shall be exterior to the gate and located for activation by the vehicle operator without dismounting from the vehicle. The height of the lock box/control panel shall be sixty-six (66) inches, measured from the finished grade line of the street.
7. The lock box, padlock or key switch must be an approved model utilized by the Elko Fire Department. THE LOCK BOX, PADLOCK AND KEY SWITCH MANUFACTURED BY THE KNOX COMPANY ARE THE ONLY APPROVED TYPE USED BY THE CITY OF ELKO.
9. Gates must open to twenty (20) within twenty (20) seconds (one foot per second) of activation and remain in the open position until closed by operation of the electrical control device.
10. The control pedestal must be identified with a minimum six (6) inch by ten (10) inch sign with red letters on a white background. This sign shall be securely fastened to the pedestal and legible from the approaching vehicle. “EMERGENCY FIRE DEPARTMENT ACCESS”.
11. Battery backup for all motorized gates is required, unless the gate fail safe (open) in the event of a power failure.
12. Secondary “Exit Only” gates shall be set up for Fire Department emergency accesses. Exit only gates, which are not motorized, shall be installed per City of Elko Fire Department Standard detail. Exit only gates shall have a minimum clearance of twenty (20) feet clear width and be posted with a sign that states “Caution Gate Opens Out.” The ground shall be painted with a yellow strip showing the depth of the gate swing.
Fire Signage and Access Requirements

Fire Department Construction Access Requirements

1. Provide fire department access sign as prescribed above.
2. The fire department access sign shall be located as close as possible to the fire department construction access road entrance and shall be visibly maintained at all times.
3. The fire department access roads shall be a minimum width of twenty (20) feet wide.
4. The fire department access roads shall be constructed and maintained as to support the weight of the fire apparatus, (75,000 lbs.), in all weather conditions and at all times.
5. Reflectors shall be provided to define the width of the fire department access roads. The reflectors shall be mounted at intervals not to exceed fifty feet.
6. The access road shall be extended to within two hundred (200) feet of any combustible materials and/or any location on the jobsite where any person(s) shall be working for a minimum of four continuous hours in any day.
7. All open trenches shall have steel plates capable of maintaining the integrity of the access road design when these trenches cross an access road.
8. Access roads shall be in place prior to the start of vertical construction.

Reasoning:
Fire apparatus access roads are essential during construction to allow emergency response to the site for both fire and medical emergencies.