



**GOODYEAR FIRE DEPARTMENT**  
**Fire, Building & Life Safety Section**

- Fire Safety  
 Building Safety

196 N. 145<sup>th</sup> Ave. ● 623-932-3004 ● Fax: 623-932-3027  
[www.goodyearaz.gov](http://www.goodyearaz.gov)



<b>REQUIREMENT / PROCEDURE</b>		<b>09-RP-005</b>	
<b>Subject:</b>	Landscape Vacum Breakers		
<b>Effective Date:</b>	Previously in effect	<b>Revised Date:</b>	3/25/2009
<p><b><u>PERMITS</u></b></p> <p>A permit is required any time the following systems are added, altered, or breached: potable water system, electrical circuits, electrical wiring, or electrical equipment. The permit may be obtained by completing an application at the city Building Safety Division located at 195 N. 145<sup>th</sup> Ave, Building D, Goodyear, Arizona 85338, (623) 932-3004.</p> <p><b><u>INSPECTION</u></b></p> <p>All work must be inspected before being covered (this does not include any landscape piping on the load side of a vacuum breaker or wiring on the low voltage side of a landscape lighting transformer). When the work for which the permit was issued has been completed, a final inspection must be requested. Requests for inspection can be made by calling (623) 932-3494 or (623) 932-3004, by 3:00 P.M. the business day prior to inspection.</p> <p>Contractors performing work for which a permit is required must be licensed by the Sate of Arizona in the discipline of the work performed. Failure to bring into compliance any items noted during an inspection will result in a re-inspection fee assessment at the next requested inspection. Failure to request an inspection before the work is covered or completed will result in a notice to comply and additional fees.</p> <p>The following items represent the most common requirements for the installation of vacuum breakers and landscape equipment. This list is not all inclusive, but it will help the installer obtain approval for compliance during inspection:</p> <p><b><u>PLUMBING</u></b></p> <ul style="list-style-type: none"> <li>• Pressure Vacuum Breakers must be located a minimum of 12 inches above all downstream piping (1994 UPC Table 6-1).</li> <li>• Atmospheric Vacuum Breakers must be located a minimum of 6 inches above all downstream piping and shall have no valve down stream of the assembly. (1994 UPC Table 6-1).</li> <li>• Vacuum breaker test outlets must be accessible for testing. (1994 UPC 103.5).</li> </ul>			

- Free standing vacuum breakers must be adequately supported on the line and load sides by copper piping. Other support methods must be approved by the Building Official. (1994 UPC 314.0, Table 3-1, 609.1)
- All plumbing lines tapped into the potable water line(s) that have sections installed underground before connecting to the vacuum breaker must be pressure tested and inspected before covering. (1994 UPC 103.5). A separate inspection may be requested. The inspection code for this inspection is **11**. If all potable water lines before the vacuum breaker are visible, then no additional inspection is required. When plumbing and electrical work is completed, a final inspection shall be requested. The inspection code for this inspection is **60**.

### **ELECTRICAL**

- Circuit breakers must be legibly marked to indicate its purpose with durable ink or other durable means
- Circuit breakers installed in panelboards must be the specific type listed on the panel cover.
- Grounding and neutral (grounded) conductors must not be terminated under or share the same lug or terminal. More than one grounding conductor may share the same termination where listed by the manufacturer, refer to the label on the inside panelboard cover.
- Plants, or other obstructions, shall not be placed within three feet in front of the electrical service or any panelboards.
- Outdoor receptacle outlets used to supply power to landscape lighting transformers must be GFCI protected and in a weatherproof enclosure, the integrity of which is not affected when the attachment plug cap is inserted.
- Underground conduit must be buried in accordance with 2002 NEC 300.5. Residential branch circuits rated 120 volts, maximum 20 amps, and GFCI protected may be buried 12 inches below grade.

Prepared By:  
**Bill King, Plans Review Supervisor**

Approved By:  
**Ed Kulik, Chief Building Official**