PROFILE VIEW
ABOVE GROUND

FROM METER OR SERVICE TIE-IN SEE DETAIL 520S-19D-SM FOR SERVICE TIE-IN

PROFILE VIEW
BELOW GROUND

4" MIN. CLEARANCE

GRAVEL FILL (12")

PLAN VIEW
BELOW GROUND

BACKFLOW PREVENTER TO BE CENTERED IN BOX

The City of San Marcos
Engineering and Capital Improvements

RECORDED COPY SIGNED BY 10/7/2014 ADOPTED
LAURIE MOYER, P.E.

DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY 3/4"-2"

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

520S-19D-SM
N.T.S. STANDARD DETAIL
## RECOMMENDED MATERIALS LIST

<table>
<thead>
<tr>
<th>LABEL</th>
<th>ITEM</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>BACKFLOW PREVENTER SIZE</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>A</td>
<td>BRASS ELBOW 90° BEND</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>B</td>
<td>BRASS NIPPLE THREADED BY THREADED</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>C</td>
<td>BRASS NIPPLE THREADED</td>
<td>3/4&quot;</td>
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### NOTES:

1. FIRE LINES REQUIRE A DETECTOR ASSEMBLY ON THE BACKFLOW DEVICE.
2. BACKFLOW PREVENTER MUST BE PROTECTED FROM WEATHER.
3. BACKFLOW PREVENTER SHOULD BE AS CLOSE AS POSSIBLE TO SERVICE CONNECTION ON PROPERTY OWNER SIDE OF EASEMENT OR PROPERTY LINE.
4. A TRANSITION FROM PVC TO BRASS WITH A COUPLING MAY BE RECOMMENDED AFTER METER VAULT BEFORE THE BACKFLOW PREVENTER.
5. A UNMETERED FIRE LINE WILL USE DETAIL 520S-WMT-SM WITH TAP SIZE EQUAL TO BACKFLOW PREVENTER SIZE TO CONNECT TO CITY WATER LINE.