NOTE: If Pump Is Higher Than Steamer Nozzle, Measure H From Pump Level.

Marker Post And Sign

Normal Water Level

Water Needs Allowance To Be Between These Levels

Low Water Level

L =

PROFILE OF INSTALLATION

CALCULATING REQUIRED LIFT

TOTAL REQUIRED LIFT =
HEAD LOSS IN HYDRANT, + HEAD LOSS IN INTAKE + STATIC LIFT (H)
FITTINGS AND GUARD PIPE (HL)

USING 500 GALLONS/MIN.
TOTAL REQUIRED LIFT = $7.6' + \frac{L \times HL}{100} + H = 7.6' + ____ + ____ = ____$

USING 250 GALLONS/MIN.
TOTAL REQUIRED LIFT = $1.9' + \frac{L \times HL}{100} + H = 1.9' + ____ + ____ = ____$

ILLINOIS

<table>
<thead>
<tr>
<th>Altitude (Feet)</th>
<th>Allowable Lift (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>22.7</td>
</tr>
<tr>
<td>1,000</td>
<td>22.0</td>
</tr>
<tr>
<td>1,300</td>
<td>21.8</td>
</tr>
</tbody>
</table>

HEAD LOSS IN FEET (HL)

<table>
<thead>
<tr>
<th>Gallons Per Minute</th>
<th>Plastic Pipe</th>
<th>Smooth Steel Pipe</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>2.3</td>
<td>5.3</td>
</tr>
<tr>
<td>250</td>
<td>0.6</td>
<td>1.3</td>
</tr>
</tbody>
</table>

NOTE: Total required lift value not to exceed value obtained from table of allowable lifts (above).
NOTE: Check with local Fire Department for approved type of connection.

Steamer Nozzle Cap
Steamer Nozzle 4 1/2" Standard
4" Dia Cast Iron 90° Elbow

4" Dia Black Iron Pipe, 3 Ft. Long
16" Dia Concrete Block Minimum 4 Ft. Deep

Reducer And Adapter As Required
(6" To 4" Dia)

6" Dia Smooth Steel Pipe
(Min 10 Gage Thickness)
Or Plastic Pipe
(Min Schedule 40)

Galvanized Trash Guard Collar With
2 Bolts And 5 (1/8") Dia Rods

DETAIL OF HYDRANT