Topographic Map Exercise 3

1. Using the Public Lands (or Land Office) Grid System, what is the location of:
   - The center of Halsey Forebay (lake).
   - The westernmost extent of the runway at the Auburn Municipal Airport.
   - The center of the North Fork Dam along the American River.

2. What is the elevation difference between the spillway on Rock Creek Lake and the highest elevation Bench Mark in Section 27, T13N, R8E?

3. How far is it from the water tank in Section 10, T13N, R8E and the spot elevation 1456 in Section 17, T13N, R8E?
   - What is the bearing from the water tank to spot elevation 1456?

4. What is the bearing and distance:

<table>
<thead>
<tr>
<th>FROM</th>
<th>TO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water tank in Question 3, above</td>
<td>the powerhouse in Section 25, T13N, R8E</td>
</tr>
<tr>
<td>Bench Mark 1495 in Section 3, T12N, R8E</td>
<td>the center of North Fork Dam in Section 31, T13N, R9E</td>
</tr>
</tbody>
</table>

5. How many benchmarks are in Section 18, T12N, R9E?
   - What is the location of the southernmost benchmark in Section 18, T12N, R9E?