ORDINANCE NO. 1124

AN ORDINANCE TO AMEND CHAPTER 25 OF THE SOLANO COUNTY CODE TO PROVIDE FOR DESIGN AND LOCATION STANDARDS FOR WASTEWATER DISPOSAL SYSTEMS FOR PLANNED UNIT DEVELOPMENTS IN THE UNINCORPORATED AREAS OF SOLANO COUNTY THAT MAY UTILIZE A MODIFIED MOUND SEPTIC TANK/LEACHFIELD SYSTEM.

The Board of Supervisors of the County of Solano, State of California, does ordain as follows:

SECTION I.

Chapter 25 of the Solano County Code is amended by adding Article IX, as follows:

Article IX. Special PUD Wastewater Disposal System Design and Location


Notwithstanding any provisions of this Chapter to the contrary, the following provisions respecting the design and location of wastewater disposal facilities for planned unit developments in the unincorporated areas of Solano County that may utilize a modified mound septic tank/leachfield system (hereinafter referred to as "the development") are hereby adopted, and all work in respect to lots in the development designated by the Solano County Department of Public Health for use of a wastewater disposal system shall be performed as herein and otherwise required.

Section 25-901. Purpose and Application.

This Article is intended to provide certain provisions and requirements for the design and location of wastewater disposal facilities as now or hereafter constructed, replaced, reconstructed or repaired and, in general, to enable the County to carry out the powers provided it, and to meet the objectives of the Basin Plan -- San Francisco Bay Basin. This Article shall apply to all lots in any development designated by the Solano County Department of Public Health for use of a modified mound system in any planned unit development within
the unincorporated area of Solano County for which the California Regional Water Quality Control Board, San Francisco Bay Region, and the Board of Supervisors of Solano County have approved a wastewater management program. The Solano County Department of Public Health shall approve an individual wastewater disposal system for each lot in the development prior to the recording of a final map for the development.

Section 25-902. Short Title.

This Article shall be known as the Special PUD Wastewater Disposal System Design and Location Ordinance.

Section 25-903. Violation Unlawful.

Following the effective date of this Article, it shall be unlawful for any person to connect to, construct, replace, reconstruct, repair, maintain and/or use any means of wastewater disposal from any building in the development designated by the Solano County Department of Public Health for use of a wastewater disposal system except as designed and located as in this Article provided.

Section 25-904. New Construction.

The provisions of this Article shall apply to the construction of new wastewater disposal systems designated by the Solano County Department of Public Health to serve new construction in the development.

Section 25-905. Mitigations.

The provisions of this Article shall apply to the repair, reconstruction, or replacement of existing wastewater disposal systems in the development.

Section 25-906. Setbacks.

Septic tanks and leachfields shall be set back as provided herein.


Minimum groundwater depth below the trench shall be as
provided herein. Variances to the required minimum depth may be granted by the Solano County Department of Public Health if adequate demonstration is made to the satisfaction of both the Solano County Department of Public Health and the San Francisco Regional Water Quality Control Board that systems in high groundwater areas can function properly with less than the minimum depth as herein provided.

Section 25-908. Tank.

The septic tank shall be of two compartment construction; the first compartment being of twice the capacity of the second.

The tank shall be water-tight and shall be constructed of a durable, non-corrodible material. The specific approval will be conditional on review of the tank plans and selected material specification. Inlet and outlet piping shall be three-inch minimum vitrified clay, cast iron or materials approved as specified in The Uniform Plumbing Code.

Section 25-909. Leachfields.

All leachfields shall be designed so that one-half of the leachfield can be used while the remaining half is rested to allow for the recovery of the soils percolation capacity. Typically, this will call for the use of a three-way valve, diversion box, or other appropriate means.

Each half of the leachfield system shall be designed to accommodate a hydraulic loading of 150 gallons per bedroom per day. In no case shall the trench depth be less than 18 inches below the drain pipe.

The required length of each leachfield trench shall be based on the percolation rate for the site and the number of bedrooms for the proposed residence. Table No. 1 shows the percolation rate and the corresponding minimum leach line length per bedroom for the leachfield design for leach line
trench width of two feet and three feet.

Table No. 1 will serve as a minimum guide in the design of a leachfield system. This table will not restrict the Solano County Department of Public Health from requiring additional lengths of leachlines. Where a modified mound system is used, leachlines will be sized based upon a percolation rate in the mound soil of one inch (1") per hour.

<table>
<thead>
<tr>
<th>Percolation Rate</th>
<th>Required Minimum Leach Line Length per Bedroom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Two ft. Trench</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Less than 1.0 inch/hr.</td>
<td>Not Acceptable</td>
</tr>
<tr>
<td>1.0   &quot;</td>
<td>248 feet</td>
</tr>
<tr>
<td>1.5   &quot;</td>
<td>210 &quot;</td>
</tr>
<tr>
<td>2.0   &quot;</td>
<td>180 &quot;</td>
</tr>
<tr>
<td>2.5   &quot;</td>
<td>150 &quot;</td>
</tr>
<tr>
<td>3.0   &quot;</td>
<td>135 &quot;</td>
</tr>
<tr>
<td>3.5   &quot;</td>
<td>120 &quot;</td>
</tr>
<tr>
<td>4.0   &quot;</td>
<td>105 &quot;</td>
</tr>
</tbody>
</table>

Section 25-910. Special System Designs.

Special system designs may be allowed upon approval of the Solano County Department of Public Health and the Regional Water Quality Control Board.

Section 25-911. Use of Portable Facilities During Repair, Reconstruction or Replacement.

The Solano County Department of Public Health may require the installation of a portable chemical toilet and adequate provisions for the disposal of gray water during the period of time that a septic tank is being repaired, reconstructed or replaced and changes made in plumbing hookups. If such work takes more than one working day to perform, the Solano County Department of Public Health may require vacation of the served...
premises until repairs, reconstruction or replacement is completed.

Section 25-912. On-Site System-Specifications.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percolation, min/in</td>
<td>Percolation rates shall not exceed 60 on any land proposed for a leaching system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Setback, feet (independent of slope of lot)</th>
<th>Tank</th>
<th>Leachfield</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Buildings</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>2. Adjoining Property Lines</td>
<td>10</td>
<td>25</td>
</tr>
<tr>
<td>3. All Potable Water Wells</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>4. Natural Water Courses</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>5. Cuts or Embankments</td>
<td>10</td>
<td>4 times vertical cut*</td>
</tr>
<tr>
<td>6. Swimming Pools</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>7. Water Lines</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>8. Walks and Drives</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

Depth below trench bottom of soil having a one-inch per hour minimum percolation rate

Depth below trench bottom to seasonally high groundwater

Tank

A minimum of 1200 gallons, with a 20" min. tank access manhole for each compartment at ground surface.

Leachfield

All leaching systems shall consist of two separate leachfields that can be alternated. Each half of the leachfield shall be designed as follows:

1. Hydraulic Loading

Leachfield design conditions shall be based upon a hydraulic loading of 300 gal/bedroom/day.

2. Trench Loading

The leachfield length must be determined from the percolation rate for each lot. Percolation tests shall be performed in accordance with standards set by Solano County.

3. Special Leachfield Designs

Special leachfield designs other than the modified mound system, such as evapotranspiration trenches or other configurations may be allowed if approved by the Solano County Department of Public Health and the Regional Water Quality Control Board.

*1 surveying rod is held at any point for which the cut is desired, and a reading is taken, which reading is called the ground rod. The difference between the grade rod and the ground rod is equal to the cut.
Section 25-913. Variances.

All percolations structures shall conform to the required percolation areas and shall be constructed such that the system undergoes a load-rest cycle once per year. In those cases involving variances to the depth of ground water or to the hydraulic loading capacity, the proposed design, together with the Solano County Department of Public Health rationale for approval, shall be submitted to the Regional Board Staff for review and comment. If no word is received from the Regional Board Staff within twenty-one (21) days from the date of mailing, the County Department of Public Health may authorize the proposed design.

Section 25-914. Separability.

If any section, subsection, sentence, clause or phrase of this Article or the application thereof to any person or circumstance is for any reason held to be unconstitutional or invalid, such decision shall not affect the validity of the remaining portions of this Article or the application of such provision to other persons or circumstances. The Board of Supervisors hereby declares that it would have passed the ordinance adding this Article or any section, subsection, sentence, clause or phrase hereof irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared to be unconstitutional.

Section 25-915. Violations.

Any person violating any of the provisions of this Article shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of not more than FIVE HUNDRED DOLLARS ($500.00) for the first offense. A continuing or subsequent offense upon conviction shall be punishable by a fine of not more than FIVE HUNDRED DOLLARS ($500.00) or imprisonment in the County Jail for not more than SIX (6) MONTHS; or
by both such fine and imprisonment. Such persons shall be deemed to be guilty of a separate offense for each and every day during any portion of which a violation of this Article is committed, continued, or permitted by such person. Any violation or threatened violation of this Article may also be enjoined by civil suit, in which event there is to be paid to the County reasonable attorney's fees and costs of suit arising in said action.

SECTION II.

This Ordinance shall be published once before the expiration of FIFTEEN (15) DAYS after its final passage in the _Vallejo Times Herald_, a newspaper of general circulation, printed and published in the County of Solano, State of California, and shall be in full force and effect THIRTY (30) DAYS after its passage.

ATTEST:

RICHARD BRANN, Chairman
Board of Supervisors

JOHN S. BLACKLOCK
Clerk of the Board of Supervisors

By
Deputy Clerk

I, JOHN S. BLACKLOCK, Clerk of the Board of Supervisors of the County of Solano, State of California, do hereby certify that the above and foregoing Ordinance was introduced at a regular meeting thereof held this 5th day of May, 1931.

On the motion of Supervisor Davis and the Second of Supervisor Cunningham, this Ordinance was adopted at a regular meeting of said Board.
on the 23rd day of June, 1981, by the following vote:

AYES: SUPERVISORS: Cunningham, Davis and Chairman Brandon

NOES: SUPERVISORS: None

ABSTAINED: SUPERVISORS: None

ABSENT: SUPERVISORS: Brazelton and Hewitt

WITNESS my hand and the Seal of said Board this 23rd day of June, 1981.

JOHN S. BLACKLOCK, Clerk
of the Board of Supervisors

By [Signature] Deputy Clerk