

Mike Tauriainen, P.E.

December 12, 1989

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Bryson Twidwell
Environmental Engineer
ADEC
Soldotna, AK 99669

Department of
Environmental Conservation

Subject: Unsubdivided Remainder of Pace's Pleasant Haven S/D
HUD # 1110332203, 470 Johns Circle
Class "C" Public Water and Wastewater System Approval

Bryson:

In response to your letter dated September 21, 1989 we have addressed your concerns on the subject project.

WATER SUPPLY SYSTEM

The existing water supply system consists of a 100' well with a static water level of 93.2' according to the attached Kraxberger Drilling pump test data sheet. According to Kraxberger drilling, a 1/2 hp pump is present and a 1" diameter riser pipe is connected to a 3/4" diameter copper water supply line at the pitless adapter. A WX203 pressure tank was observed in the crawl space, disconnected from the water system. According to our calculations, the pump is not adequate for the theoretical design flow rate.

According to the attached four hour drawdown test, the water level stabilized at about 97.7' at a pumping rate of 40 gpm. According to our attached calculations, a design flow of 26 gpm is required against approximately 228' TDH. The attached pump curve indicates that a 3 hp Jacuzzi model 30S425-17 will meet these requirements. According to our calculations, a 98 gallon pressure tank is required. A combination of a WX251 and a WX203 pressure tanks will give a sufficient combined capacity of 98 gallons. If the WX202 pressure tank in the crawl space is salvagable, a WX252 in combination with it will give a sufficient capacity of 107 gallons.

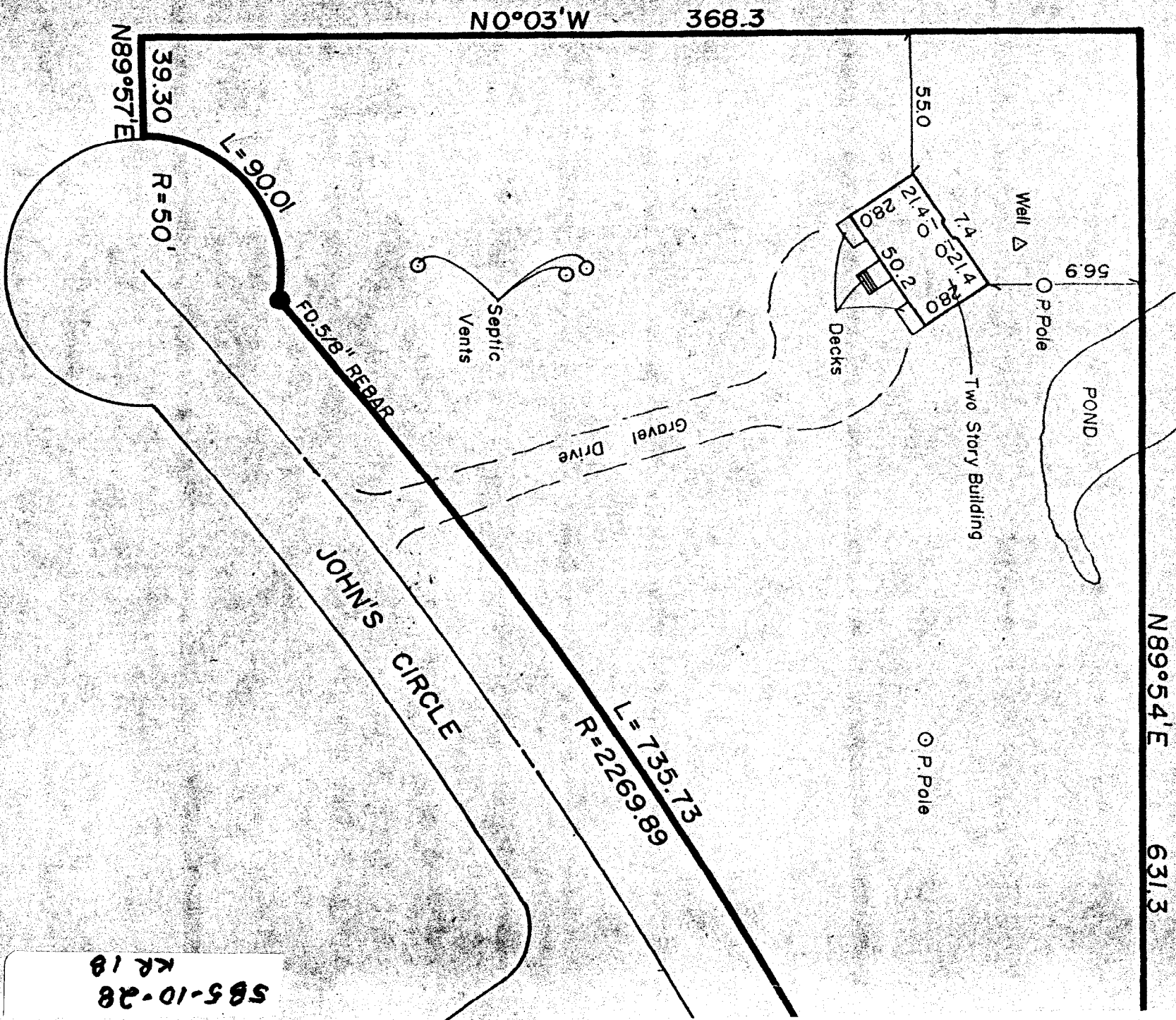
The only wastewater system observed within a 200' radius of the well was the subject wastewater system.

WASTEWATER TREATMENT AND DISPOSAL SYSTEM

On September 11, 1989, we submitted to your office an On Site Water/Wastewater System Application for the subject lot. Two wells were observed within a 200' radius of the subject soil absorption system. One is the well on the subject lot and the other is located on the lot south of John's Circle. Separation from these two wells the the subject absorption system meet ADEC requirements.

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