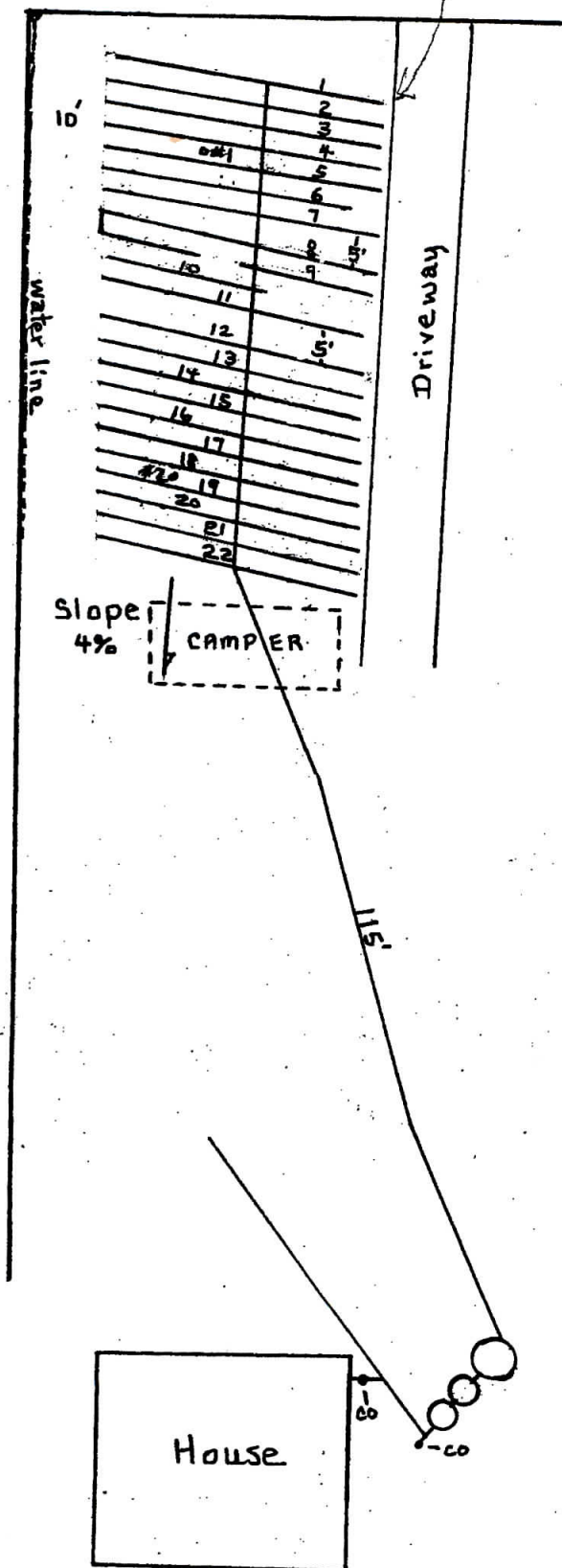


#1 IS 20' FROM
CULVERT. 16" FORM DRIVEWAY

Lee Bice
465 Susan Rd.
Cape Estes



Line No.	L	R
1	5.5'	5.0'
2	5.4'	5.0'
3	5.5'	5.1'
4	5.5'	5.0'
5	5.6'	5.1'
6	5.6'	5.1'
7	5.7'	5.2'
8	5.8'	5.5'
9	5.4'	5.6'
10	5.9'	5.6'
11	5.9'	6.2'
12	6.1'	6.3'
13	6.2'	6.5'
14	6.4'	6.7'
15	6.6'	6.8'
16	6.7'	7.0'
17	6.9'	7.3'
18	7.1'	7.4'
19	7.2'	7.6'
20	7.5'	7.9'
21	7.7'	8.2'
22	8.0'	8.0'

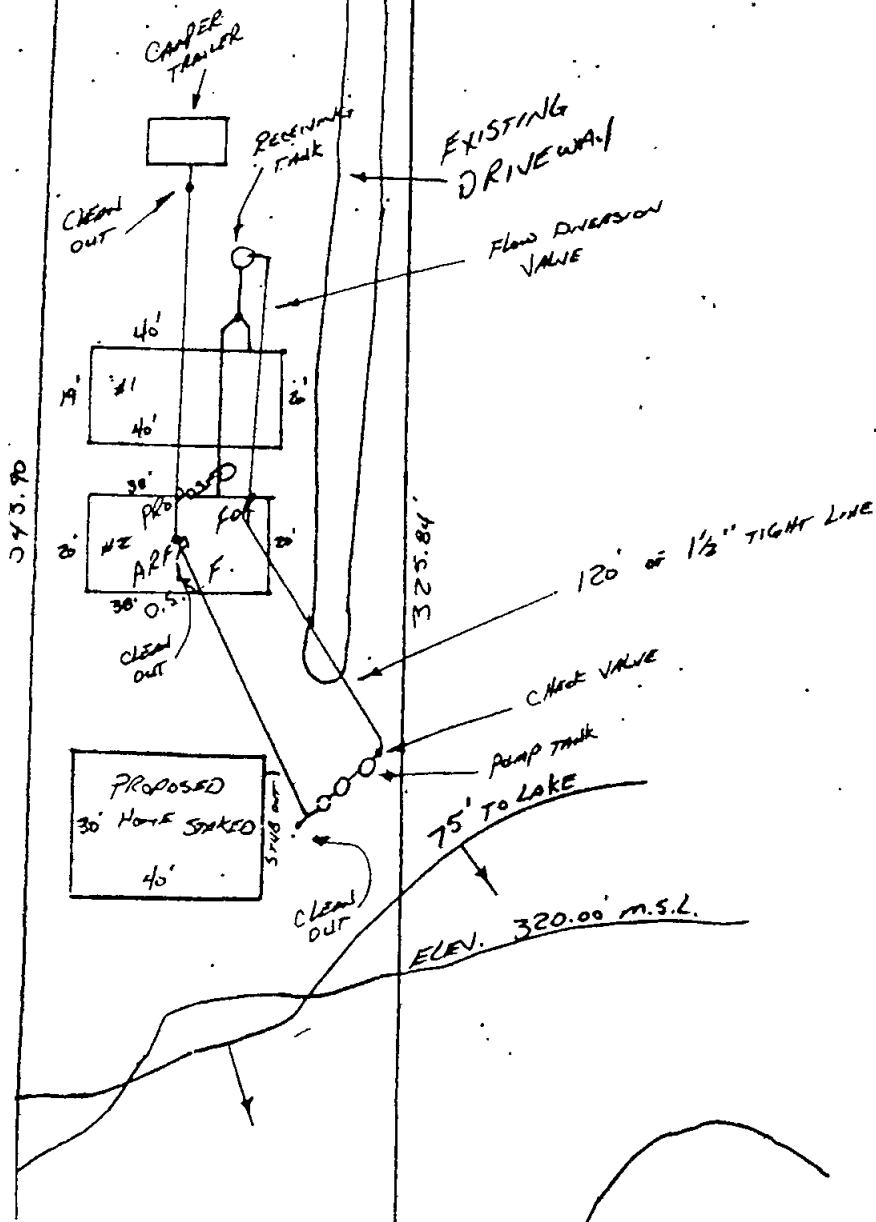
All lines three ft. apart unless marked.

Travel Trailer to be removed.

William Hill
27 Mar 02

STATE OF TEXAS
WILLIAM W. HILL
1361
REGISTER

Second
Septic



83.60'
ELEV. 315.00' M.S.L.

RICHLAND CHAMBERS RESERVOIR

CHECKLIST

REMARKS: PUMP CYCLES 61 GALLONS IN 5 MINUTES
WITH 122 GAL. RESERVE CAPACITY

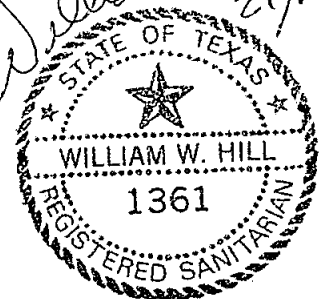
2 - 38' x 20'
1 - 300 GAL. RECEIVING TANK

BEPS WITH PUMP

J-96 GREENHAW YES

Lee Bice * 465 Susan Grove * Cape Estes

Daily Waste Flow	240 gal./day
Septic Tank Size	750 gal.
Pumping Tank Size	500 gal.
Effluent Loading Rate	0.1 gal./ sq. ft./day
Absorption Area	2400 sq. ft.
Total Length of laterals	807 ft.
Lateral Diameter	1 in. sch. 40
Lateral Configuration	see attached diagram
Supply Line Length	180 ft.
Supply Line Diameter	2 in. sch. 40
Manifold Placement	Center
Hole Size	1/8 in.
Hole Spacing	see attached chart
Number of Holes	117
Flow per Hole	see attached chart
Total Flow	30.25 GPM
Elevation Head	12.3 ft.
Friction Head	3.3 ft.
Pressure Head	1.5 ft.
Total Head	17.1 ft.
Pump Requirements	30.25 gpm. @ 17.1 ft. head
Suggested Pumps	Grundfos AP12 1/2 HP Little Giant 9E-CIA-RFS 4/10HP
Storage Volume in Laterals	33.0 gal.
Storage Volume in Supply	29.2 gal.
Total Storage	62.2 gal.
Dosing Volume	101.2 gal.
Dosing Depth	8.0 in.
Check Valve Needed?	YES
Anti-Siphon Hole Needed?	NO
Approximate Quantity of Rock	20 yds.
Effluent Filter Recommended	Zabel A1800

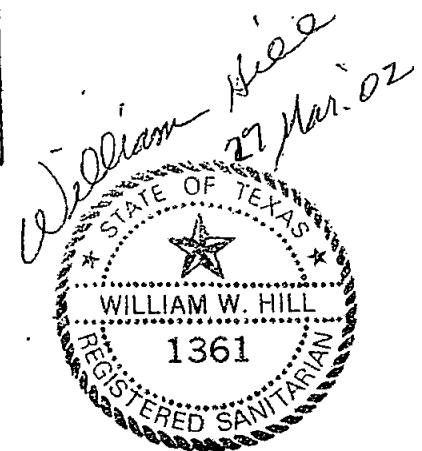
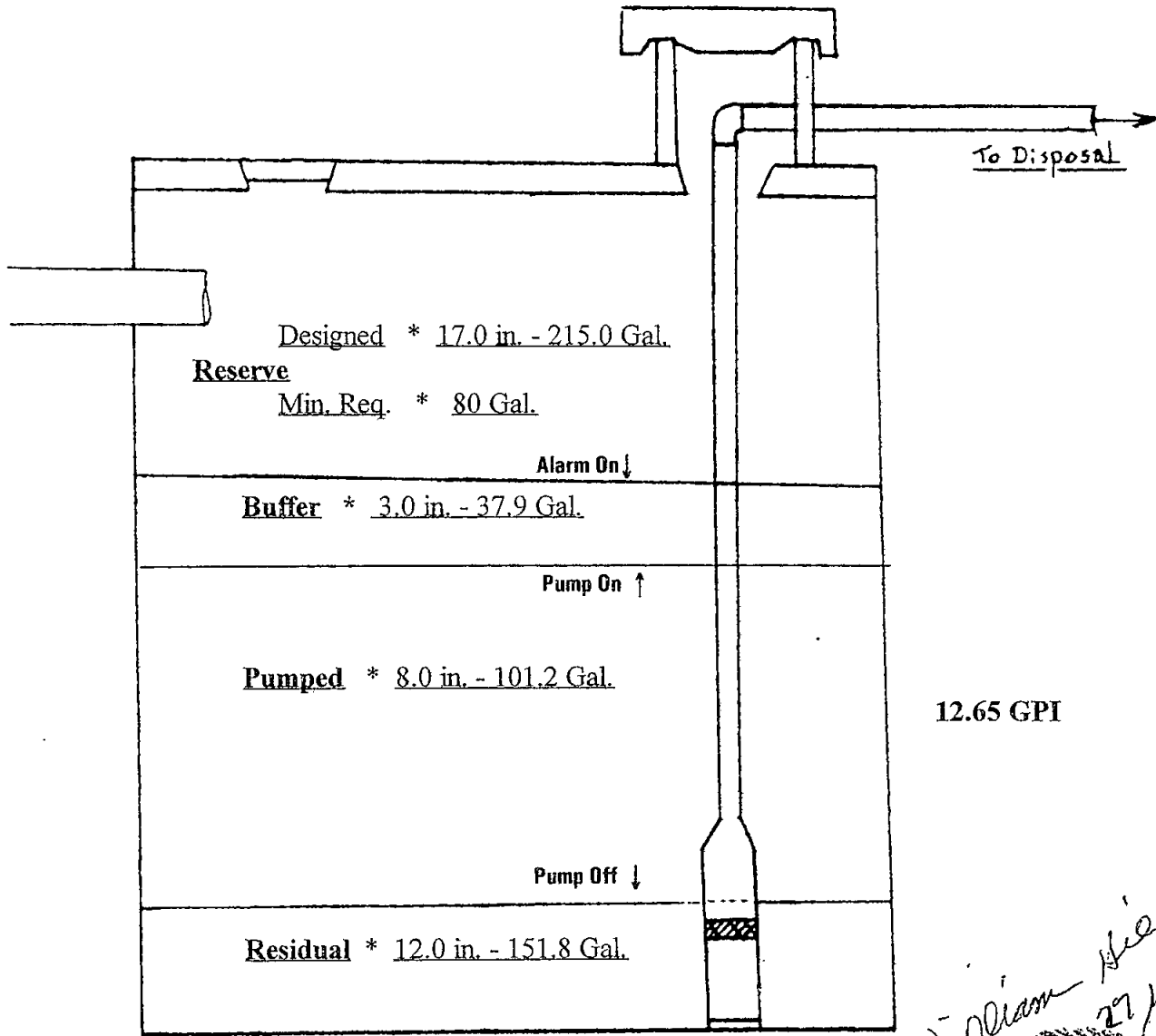


Lee Bice * 465 Susan Grove * Cape Estes

[illegible]

500 Gal. Concrete Pump Tank
Ellison Concrete Products
240 Gal./Day (TRWD)

Lee Bice
465 Susan Grove
Cape Estes



**ON-SITE SEWAGE FACILITY
SOIL SURVEY REPORT INFORMATION**

Property Owner's Name Lee Bice
Mailing Address 465 Susan Grove
City, State, Zip Streetman, TX. 75859
Site Location Cape Estes: Blk. I; Lot 34
County Freestone

(FOR HOLE #1)

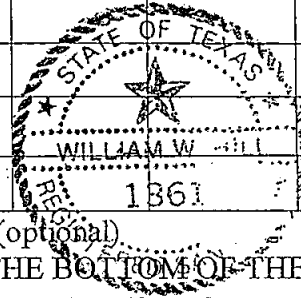
DEPTH	TEXTURE	CLASS	STRUCTURE	WATER TABLE	SLOPE 0-30%	* SOIL SERIES	* SOIL ABSORPTION
in.	i.e. Loamy Sand, Sandy Loam, Loam, Silty Clay Loam, Sandy Clay, or Clay.	per USDA Chart i.e. Ia,Ib,II,III,or IV	Only if soil is a Class III i.e. Blocky, Platy, or Massive	PRESENT Yes / No	Maximum of overall drainfield	per County Soil Survey i.e. "Bowie"	LIMITATION RATING i.e. Fair, Moderate, Severe
00 - 04	Sandy Loam	II		No	4.00%		Fair
04 - 36	Clay	IV		No			Severe

* This can be found in the County Soil Survey entitled "Sanitary Facilities" (optional)

THE MOST RESTRICTIVE SOIL CLASS FOUND ONE (1) FOOT BELOW THE BOTTOM OF THE PROPOSED EXCAVATION IS: CLASS IV [Note Class Ia & IV are unsuitable for standard disposal systems]

(FOR HOLE #2)

DEPTH	TEXTURE	CLASS	STRUCTURE	WATER TABLE	SLOPE 0-30%	* SOIL SERIES	* SOIL ABSORPTION
in.	i.e. Loamy Sand, Sandy Loam, Loam, Silty Clay Loam, Sandy Clay, or Clay.	per USDA Chart i.e. Ia,Ib,II,III,or IV	Only if soil is a Class III i.e. Blocky, Platy, or Massive	PRESENT Yes / No	Maximum of overall drainfield	per County Soil Survey i.e. "Bowie"	LIMITATION RATING i.e. Fair, Moderate, Severe
00 - 03	Sandy Clay Loam	III	Sub Ang B1	No	4.00%		Moderate
03 - 36	Clay	IV		No			Severe



* This can be found in the County Soil Survey entitled "Sanitary Facilities" (optional)

THE MOST RESTRICTIVE SOIL CLASS FOUND ONE (1) FOOT BELOW THE BOTTOM OF THE PROPOSED EXCAVATION IS: CLASS IV [Note: Class Ia & IV are unsuitable for standard disposal systems]

EVALUATION PERFORMED BY: William Hill circle one: RS, PE, CPSS, DR. **
DATE OF SOIL SURVEY: 23 March 2002 CERTIFICATION NO: OS7622