LAUGHLIN & CO.
CIVIL ENGINEERS
1008 LIVE OAK BOULEVARD YUBA CITY, CA 95991
(916) 671-1008 FAX (916) 671-0822

PROJECT McEWEN SEPTIC DESIGN
BY PATRICK LAUGHLIN DATE
JOB NO. 92-8214
SHEET OF

PROPOSED 3-BEDROOM HOME - LOT 1

ABOVE CANAL
PARCEL 2

SEWAGE GENERATED PER DAY:

A) 75 GAL/RES.
B) 2 RES./BEDROOM
C) NO OVERSIZE BECAUSE SEWAGE IS PRE-TREATED THROUGH SAND FILTER.

3 X 2 X 75 = 450 GAL/DAY

AVE. PERK RATE:

A) 14" DEPTH = 62.4
B) 30" DEPTH = ~~0~~

ABSORPTION CAPACITY:

$Q = 5/\sqrt{E} = 5/\sqrt{63} = 0.630$ GAL/FT²/DAY

SQUARE FOOT OF LEACH FIELD REQD.:

AT 2 SF/Ft = 714/2 = 357

PROPOSED SEPTIC FIELD:

USE 4-100 LINES W/
400 LF OF REPLACEMENT.

NOTE: SEWAGE TO FIELD TO BE TREATED W/ 20' X 20' SAND FILTER

6. Now the test may begin. A board should be laid across the hole to give a fixed reference point. Add 6" of water and record the time in Column A and the distance from this reference board to the water in Column B of the chart. In 30 minutes again read the distance from the reference board to the water and record in Column C. Enter the time in Column A of the next time period. Repeat this process for 8 half hour intervals. When it is necessary to bring the water level back to the starting point, (this should be 6" from the bottom) record the distance in Column B of the appropriate time slot.

7. If the hole consistently drains in less than 30 minutes, make the readings at 10 minute intervals for 8 readings.

8. In addition to the percolation tests an eight foot deep soil mantle is to be dug in the area of the leachfield to expose the soil profile. A backhoe excavation is best. This requirement may be waived as allowed by County Ordinance.

NE PARCEL (ABOVE CANAL)

	Perc Hole #1 Total Depth 30"			Perc Hole #2 Total Depth 30"			Perc Hole #3 Total Depth 30"		
	A	B	C	A	B	C	A	B	C
	Time	Depth to Water 6" Fill	Depth to Water Ending	Time	Depth to Water 6" Fill	Depth to Water Ending	Time	Depth to Water 6" Fill	Depth to Water Ending
1	3:24	22.00	22.00	3:30	22"	22.10	3:34	22	22.15
2	3:54	22.00	22.05	4:00	22.10	22.10	4:04	22.15	22.25
3	4:24	22.05	22.10	4:30	22.10	22.20	4:34	22.25	22.55
4	4:54	22.10	22.15	5:00	22.20	22.20	5:04	22.55	22.55
5	5:24	22.15	22.20	5:30	22.20	22.30	5:34	22.55	22.70
6	5:54	22.20	22.25	6:00	22.30	22.30	6:04	22.70	22.85
7	6:24	22.25	22.35	6:30	22.30	22.40	6:34	22.85	22.95
8	6:54	22.35	22.35	7:00	22.40	22.40	7:04	22.95	23.10
9	7:24			7:30			7:34		

.15" ⇒ 200 M.P.I.

I HEREBY CERTIFY UNDER PENALTY OF PERJURY THAT THE STATEMENTS MADE ABOVE ARE TRUE AND CORRECT AND THAT THE ABOVE PERCOLATION TESTS WERE DONE IN ACCORDANCE WITH THE INSTRUCTIONS AND THE RESULTS RECORDED ARE TRUE AND CORRECT.

8-27-92
Date of Test

C. RAMIREZ
Name of Person Conducting Test

Signature of Registered Person

RCE 18003
Registration or SCL Type and Number

RALPH McEWEN
Owner (Please Print)

Assessor Parcel Number

HWY 20
Job Address

WELL
Domestic Water Source

6. Now the test may begin. A board should be laid across the hole to give a fixed reference point. Add 6" of water and record the time in Column A and the distance from this reference board to the water in Column B of the chart. In 30 minutes again read the distance from the reference board to the water and record in Column C. Enter the time in Column A of the next time period. Repeat this process for 8 half hour intervals. When it is necessary to bring the water level back to the starting point, (this should be 6" from the bottom) record the distance in Column B of the appropriate time slot.

7. If the hole consistently drains in less than 30 minutes, make the readings at 10 minute intervals for 8 readings.

8. In addition to the percolation tests an eight foot deep soil mantle is to be dug in the area of the leachfield to expose the soil profile. A backhoe excavation is best. This requirement may be waived as allowed by County Ordinance.

NE PARCEL (ABOVE CANAL) Lot 1

	Perc Hole #1 Total Depth 14"			Perc Hole #2 Total Depth 14"			Perc Hole #3 Total Depth 14"		
	A	B	C	A	B	C	A	B	C
	Time	Depth to Water 6" Fill	Ending	Time	Depth to Water 6" Fill	Ending	Time	Depth to Water 6" Fill	Ending
1	3:26	6"	8.00	3:28	6"	6.35	3:32	6"	7.70
2	3:56	"	7.70	3:58	6.35	6.75	4:02	"	7.05
3	4:26	"	7.45	4:28	6.75	7.00	4:32	"	6.85
4	4:56	"	7.35	4:58	6.00	6.25	5:02	"	6.85
5	5:26	"	7.35	5:28	6.25	6.60	5:32	"	6.70
6	5:56	"	7.20	5:58	6.60	6.80	6:02	"	6.60
7	6:26	"	7.20	6:28	6.80	7.15	6:32	"	6.60
8	6:56	"	7.10	6:58	7.15	7.45	7:02	"	6.50
9	7:26			7:28			7:32		
		1.10" ⇒ 27.3			.30" ⇒ 100			.50" ⇒ 60	

I HEREBY CERTIFY UNDER PENALTY OF PERJURY THAT THE STATEMENTS MADE ABOVE ARE TRUE AND CORRECT AND THAT THE ABOVE PERCOLATION TESTS WERE DONE IN ACCORDANCE WITH THE INSTRUCTIONS AND THE RESULTS RECORDED ARE TRUE AND CORRECT.

8-27-92
Date of Test

C. RAMIREZ
Name of Person Conducting Test

Signature of Registered Person

RCE 18003
Registration or SCL Type and Number

RALPH McEWEN
Owner (Please Print)

Assessor Parcel Number

HWY 20
Job Address

Domestic Water Source

AVG. READING $\frac{27.3+100+60}{3}$ ⇒ 62.4 M.P.I.

LAUGHLIN & CO.
CIVIL ENGINEERS
1008 LIVE OAK BOULEVARD YUBA CITY, CA 95991
(916) 671-1008 FAX (916) 671-0822

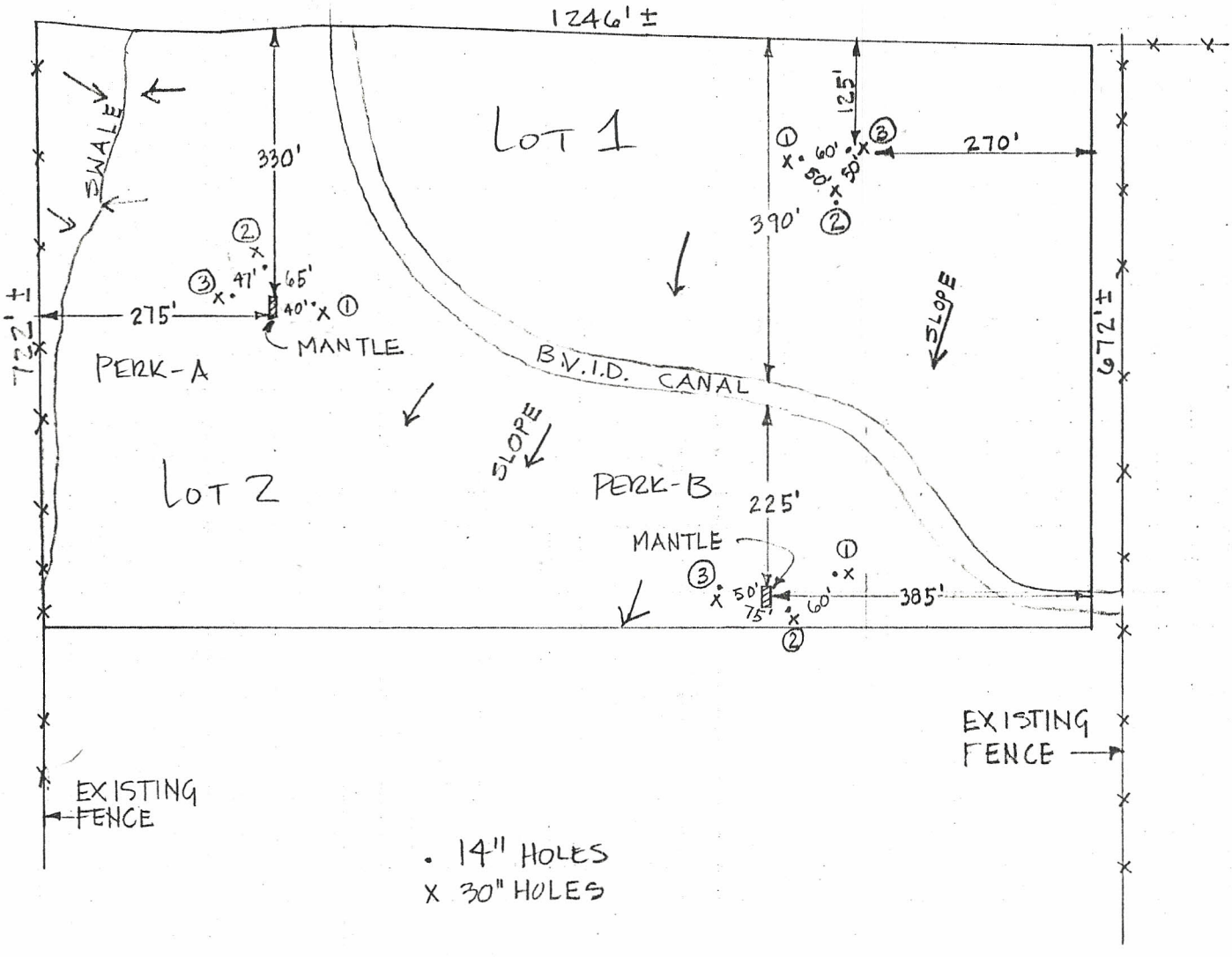
PROJECT RALPH McEWEN

BY G. RAMIREZ DATE 8-10-92

JOB NO. 92-8214

SHEET _____ OF _____

1"=200'



LAUGHLIN & CO.
CIVIL ENGINEERS
1008 LIVE OAK BOULEVARD YUBA CITY, CA 95991
(916) 671-1008 FAX (916) 671-0822

PROJECT McEWEN SEPTIC DESIGN
BY PATRICK LAUGHLIN DATE 8-26-92
JOB NO. 92-8214
SHEET ____ OF ____

0-8" LIGHT REDDISH BROWN CLAY LOAM. GRAVELS & SMALLER COBBLES THROUGHOUT.

8-12" BAND OF YELLOWISH BROWN CLAY.

12-36" CEMENTED GRAVELLY CLAY INTERMIXED WITH COBBLES 1-6" IN DIAMETER. DECOMPOSED ROCK AND SANDS INTERMIXED.

LAUGHLIN & CO.
CIVIL ENGINEERS
1008 LIVE OAK BOULEVARD YUBA CITY, CA 95991
(916) 671-1008 FAX (916) 671-0822

PROJECT McEWEN SEPTIC DESIGN
BY PATRICK LAUGHLIN DATE AUG 92
JOB NO. 92-8214
SHEET ____ OF ____