

DEH Record #: LOWTS-011313  
 Any changes to the Structures, Driveway and Grading as shown on this plan, will void this approval

LOWTS-011313  
12/9/19

SEE COMMENTS ON ATTACHED SHEET FOR ANY SPECIAL CONDITIONS OR PERMITS  
 VICINITY MAP NOT TO SCALE  
 12/9/19  
 Specialist \_\_\_\_\_ Date \_\_\_\_\_

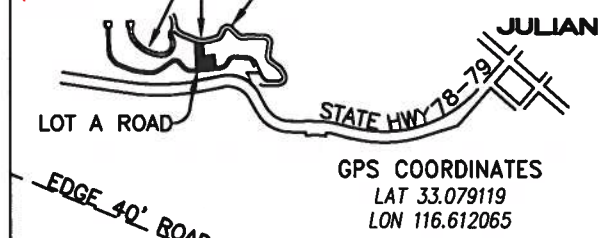
OWNER:  
 ALICIA SAWAYA  
 POB 1355  
 JULIAN, CA 92036  
 (619) 315-4707  
 josephinelcajon@gmail.com

SITE ADDRESS:  
 PAYSON DRIVE  
 JULIAN, CA 92036

PLEASE SEND APPROVED LAYOUT TO:  
 PATRICK ENGINEERING  
 POB 442  
 JULIAN, CA 92036  
 (760) 765-1343  
 patrickeng@sbcglobal.net

LEGEND:

SEPTIC TANK:	
TIGHT LINE:	+++++
PRIMARY LEACH LINE:	00'
RESERVE LEACH LINE:	00'
WATER LINE:	W
POWERLINE:	P
SETBACK LINE:	---
CONTOUR LINE:	4000
CUT:	
FILL:	
SINGLE FAMILY DWELLING:	SFD
PERCOLATION TEST:	
OBSERVATION BORING:	



PERCOLATION TEST RESULTS

TEST NO.	DEPTH	RATES IN MINS./INCH
1	5'	11
2	5'	8
3	5'	5
4	5'	17
5	5'	11
6	5'	13
7	10'	5
8	10'	5

AVERAGE RATE: 11 MIN./IN.

DRIP FIELD (ALT. SYS.) PERCOLATION TEST RESULTS

TEST NO.	DEPTH	RATES IN MINS./INCH
9	1'	11
10	1'	25
11	1'	8
12	1'	12.5

AVERAGE RATE: 14 MIN./IN.

I CERTIFY THAT THE LAYOUT SHOWS ALL PUBLIC WATER LINES ON OR WITHIN 20' OF THE PROPERTY.

*Patrick L Brown*  
 PATRICK L. BROWN R.C.E. 18067

WELL SHALL BE LOCATED A MINIMUM OF 100' FROM THE LEACH FIELD AREAS.

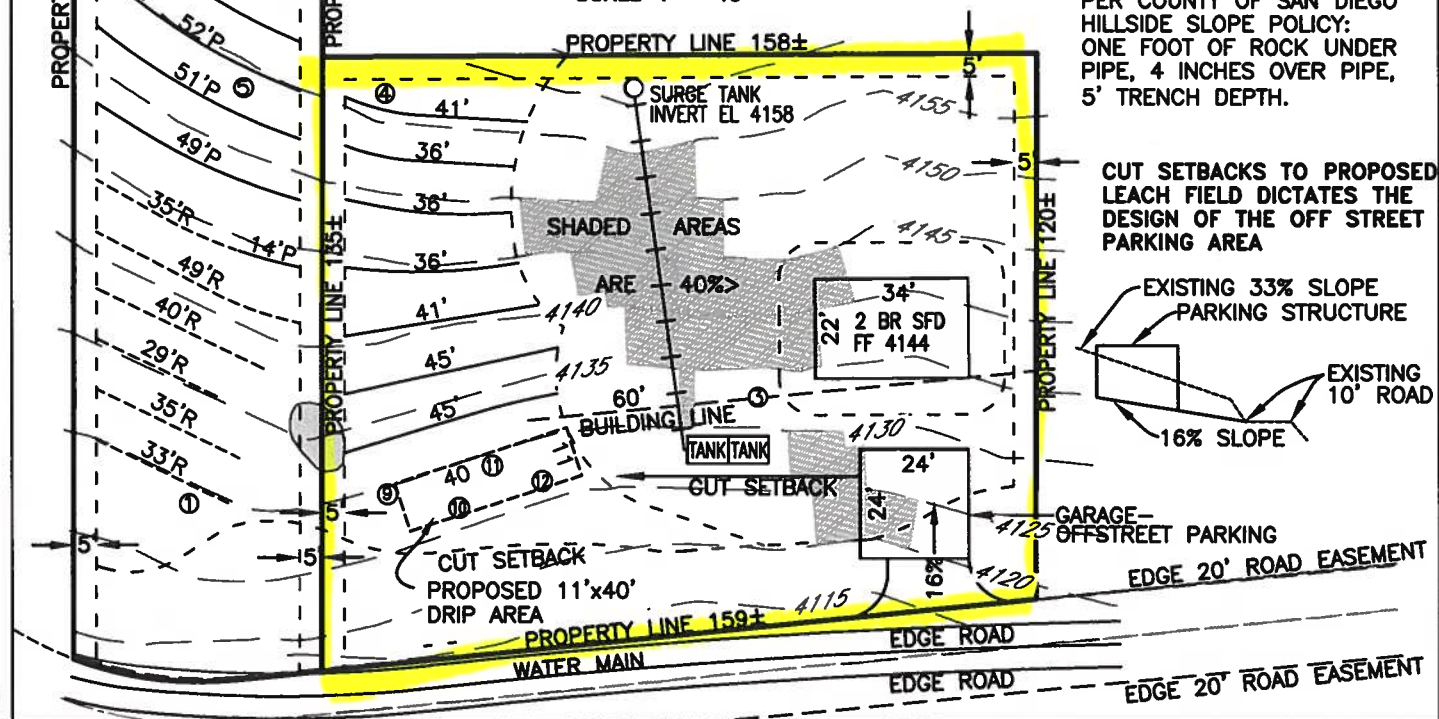
APN 291-023-04.21 **33?**

LAYOUT SHOWN HEREON  
 TWO BEDROOM SFD;  
 1000 GAL TANK WITH  
 280' OF LEACH LINE  
 WITH 100% RESERVE

USING 11MPI PERCOLATION RATES WEST  
 LOT= 1BR SFD @ 220'LL+ 100% RESERVE  
 EAST LOT= 2BR SFD @ 280'LL+ 100% RESERVE. FULL SYS DESIGN REQD AT TIME OF INSTAL. STA

SYSTEM SHALL BE INSTALLED PER COUNTY OF SAN DIEGO HILLSIDE SLOPE POLICY: ONE FOOT OF ROCK UNDER PIPE, 4 INCHES OVER PIPE, 5' TRENCH DEPTH.

LAYOUT DETAIL  
 SCALE 1" = 40'



L:\CIVIL 3D PROJECTS\2476 SAWAYA\DWG\2476 SAWAYA

**PATRICK ENGINEERING & SURVEYING**

*Patrick L. Brown, R.C.E. 18067  
2110 Main Street, Suite A  
Post Office Box 442  
Julian, California 92036  
Office (760) 765-1343/Fax (760) 765-2081  
E-mail: [patrickeng@sbcglobal.net](mailto:patrickeng@sbcglobal.net)*

**ALICIA SAWAYA**

**Septic System Calcs**

*Payson Drive  
Julian, California 92036  
APN 291-023-04,21*

*Prepared on  
December 5<sup>th</sup>, 2019*

*Prepared by  
Patrick Engineering and Surveying  
P. O. Box 442  
Julian, California 92036  
(760) 765-1343*

**PATRICK ENGINEERING & SURVEYING**

Patrick L. Brown, R.C.E. 18067  
2110 Main Street, Suite A  
Post Office Box 442  
Julian, California 92036  
Office (760) 765-1343/Fax (760) 765-2081  
E-mail: [patrickeng@sbcglobal.net](mailto:patrickeng@sbcglobal.net)

**ALICIA SAWAYA**

Given:

Payson Drive, Julian, CA 92036  
APN 291-023-04,21  
Perc Rate = 14 Minutes/Inch  
Two Bedroom = 300 gallons

Find Application Rate:

For 14 minutes/inch the Application Rate = .743

Calculate Required Area:

$$\text{Area} = \frac{300}{0.743}$$

$$\text{Area} = 404 \text{ Ft.}^2$$

$$\text{Area} = 40' \times 11$$

$$\text{Area} = 440 > 404$$