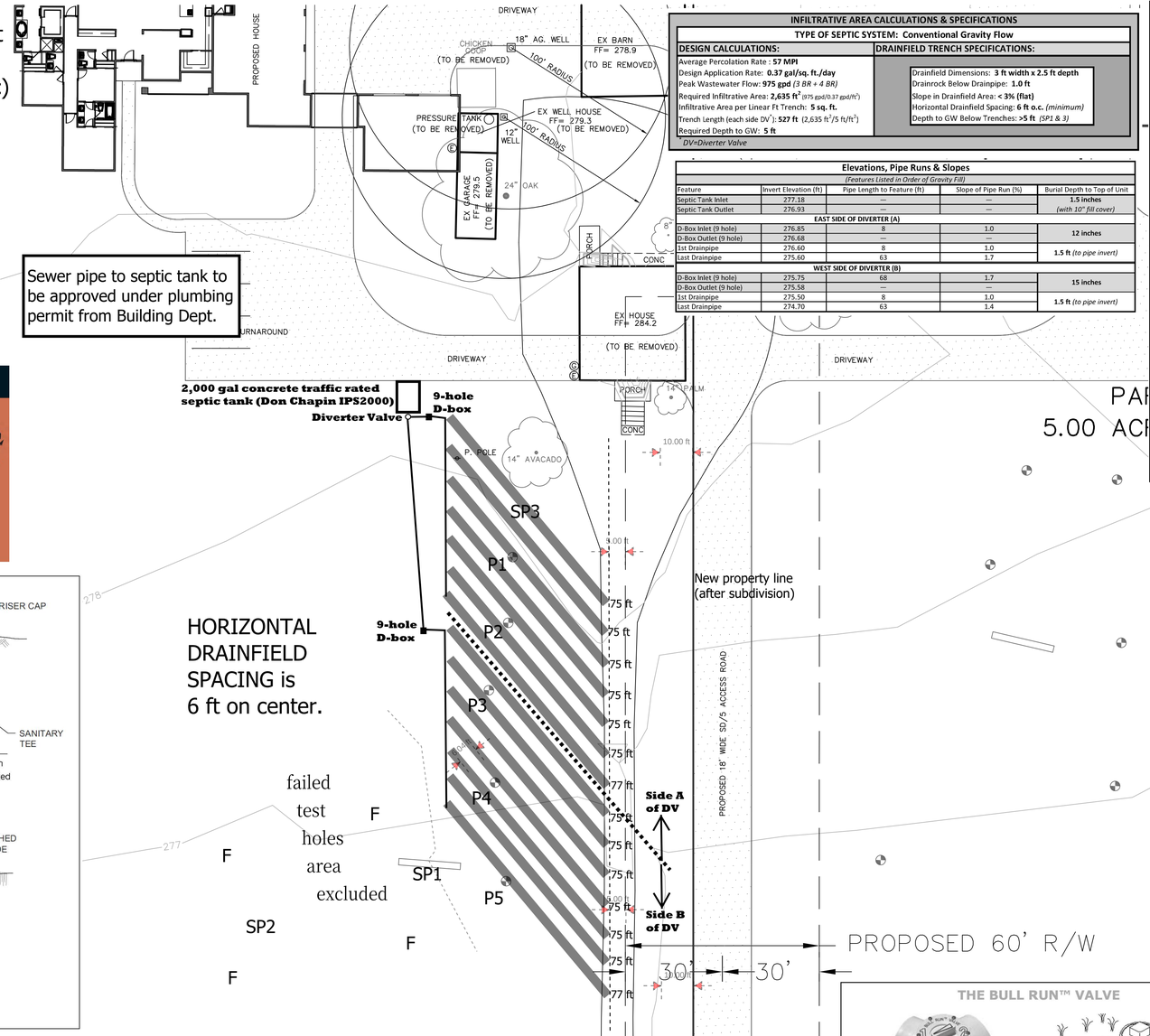
NEW WATER WELL to be drilled on west side of house. (>100 ft from septic)

The scope of this project is to allow subdivision of the property and construction of a new two unit residence (3 BR+4 BR). Soil profile and percolation tests are supportive of a conventional gravity septic system.

Sewer pipe to septic tank to be approved under plumbing permit from Building Dept.



HORIZONTAL DRAINFIELD SPACING is 6 ft on center.

failed test holes area excluded

PAR
5.00 ACR

INFILTRATIVE AREA CALCULATIONS & SPECIFICATIONS

TYPE OF SEPTIC SYSTEM: Conventional Gravity Flow

DESIGN CALCULATIONS:	DRAINFIELD TRENCH SPECIFICATIONS:
Average Percolation Rate : **57 MPI** Design Application Rate: **0.37 gal/sq. ft./day** Peak Wastewater Flow: **975 gpd** *(3 BR + 4 BR)* Required Infiltrative Area: **2,635 ft²** (975 gpd/0.37 gpd/ft²) Infiltrative Area per Linear Ft Trench: **5 sq. ft.** Trench Length (each side DV*): **527 ft** (2,635 ft²/5 ft/ft²) Required Depth to GW: **5 ft** *DV=Diverter Valve	Drainfield Dimensions: **3 ft width x 2.5 ft depth** Drainrock Below Drainpipe: **1.0 ft** Slope in Drainfield Area: **< 3% (flat)** Horizontal Drainfield Spacing: **6 ft o.c.** *(minimum)* Depth to GW Below Trenches: **>5 ft** *(SP1 & 3)*

Elevations, Pipe Runs & Slopes

(Features Listed in Order of Gravity Fill)

Feature	Invert Elevation (ft)	Pipe Length to Feature (ft)	Slope of Pipe Run (%)	Burial Depth to Top of Unit
Septic Tank Inlet	277.18	—	—	**1.5 inches**
Septic Tank Outlet	276.93	—	—	*(with 10" fill cover)*
EAST SIDE OF DIVERTER (A)				
D-Box Inlet (9 hole)	276.85	8	1.0	**12 inches**
D-Box Outlet (9 hole)	276.68	—	—	
1st Drainpipe	276.60	8	1.0	**1.5 ft** *(to pipe invert)*
Last Drainpipe	275.60	63	1.7	
WEST SIDE OF DIVERTER (B)				
D-Box Inlet (9 hole)	275.75	68	1.7	**15 inches**
D-Box Outlet (9 hole)	275.58	—	—	
1st Drainpipe	275.50	8	1.0	**1.5 ft** *(to pipe invert)*
Last Drainpipe	274.70	63	1.4	

County of Santa Clara - Department of Environmental Health

SOIL PERCOLATION TEST RECORDED MEASUREMENTS (Electronic Version by Chris Day, R.E.H.S.)

OWNER/APPLICANT:	Mon Fong Lin	**SR #:**	856161	**PLN FILE #:**	P. 1 of 1
LOCATION:	12400 Columbet San Martin APN 825-23-011	**REHS:**	Jeff Camp		
CONTACT PERSON:	CHRIS DAY, R.E.H.S.	**PHONE:**	650-293-1045	**DATE:**	7/19/2018

HOLE #1 — **DEPTH: 30"** *(32" on ruler)*

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
2:32	3:02	26 1/2	30 3/8	30	**3 7/8**	**8**
3:03	3:33	26 1/2	30 1/4	30	**3 3/4**	**8**
3:33	4:03	26 1/8	30	30	**3 7/8**	**8**
4:04	4:34	26 1/4	30 1/8	30	**3 7/8**	**8**

HOLE #2 — **DEPTH: 30"** *(33 1/2" on ruler)*

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
2:33	3:03	27 1/4	29 3/4	30	**2 1/2**	**12**
3:04	3:34	27 1/8	29	30	**1 7/8**	**16**
3:34	4:04	27 1/4	29 1/8	30	**1 7/8**	**16**
4:05	4:35	27 1/4	29	30	**1 3/4**	**17**

HOLE #3 — **DEPTH: 30"** *(33" on ruler)*

TIME START	TIME FINISH	WATER LEVEL START	WATER LEVEL FINISH	Δ MIN	Δ INCH	MPI
2:34	3:05	26 7/8	28 3/4	31	**1 7/8**	**17**
3:05	3:35	26 5/8	28 1/8	30	**1 1/2**	**20**
3:35	4:05	26 7/8	28 1/4	30	**1 3/8**	**22**
4:06	4:36	26 3/4	28 1/8	30	**1 3/8**	**22**

LABELED AS: P1 P2 P3 P4 P5

	NORTH LOT				
HOLE	1	2	3	P1	P6
Stabilized MPI R	8	16	21	80	80
Adjusted Stabilized MPI R_1 = R x 1.4	11	22	29	112	112
Ave. Adj. Stabilized MPI R_2 = (Σ R_1)/ #	57				

F =failed test hole

DATA ABOVE LABELED P1, P6, ARE FROM PRIOR TESTING BY STEVE BROOKS ON 2/16/18.

Soil Analysis Test Data

APN 825-23-011	**Test Conducted on 7/18/2018**
12400 Columbet Ave. San Martin, CA	**By Chris Day, R.E.H.S. Tel. 650-293-1045**
Owner: Mon Fong Lin	**Witnessed by Jeff Camp, R.E.H.S.**

Soil Profile Test Hole #1 **Depth: 7 1/2 ft.**

0 to 2.5 ft	**Silty Clay Loam** **Roots Fine & Few** **Pores Medium & Common** **Weak Subangular Structure** **Less Than 15% Rock** **Dry Condition of Soil** **Color Light Brown** **No Mottling**	**Not Restrictive**
2.5 to 7.5 ft	**Sandy Clay w/ Gravel** **Roots None** **Pores Fine & Few** **Weak Subangular Structure** **About 35% Rock** **Dry Condition of Soil** **Color Red Brown** **No Mottling**	**Not Restrictive**

STEVE BROOKS
R.E.H.S., Consultant
200 Greenbrier Drive
Aptos, CA 95003
tl (831) 688-4301 bl (408) 202-9234

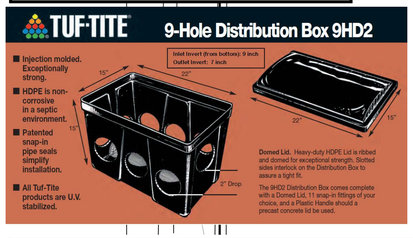
SOIL PROFILE INSPECTION RESULTS

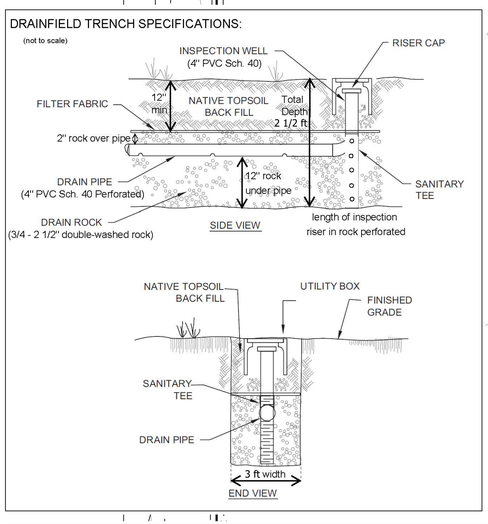
OWNER: Monfun Fong DATE OF INSPECTION: 2/2/18
ADDRESS: 12400 Columbet CITY: San Martin
APN: 825-23-011 CONDUCTED BY: Martin Brooks - Wire CHECKED BY: Jeff Camp
Wet Weather Testing

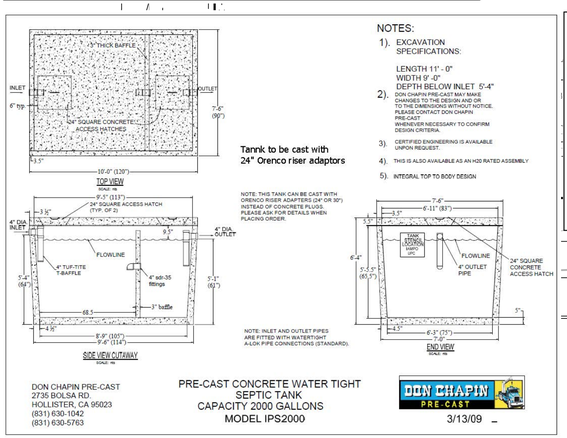
North Lot	HOLE # 1	HOLE # 2
0 ft.		
2 ft.	Silty clay	Silty clay some sand
4 ft.	Tan	3'
6 ft.	5' - Dense sand	Same
7'	Clay - silty	7' - Stiff clay - some sand
8 ft.	some sand/silt	8' - Clay
10 ft.	Same - silty	9' - Gravel - sand
11'	Silty clay - Some trace sand	10 - Sandy gravel
12 ft.		12' - Silty clay / gravel
14 ft.	Ocassional gravel	14' Same dry
14'6 - 15'	Silty sandy gravel	15' - Terminate - No signs GW
16 ft.	15' - No signs GW	

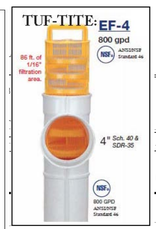
Comments:

REGISTERED ENVIRONMENTAL HEALTH SPECIALIST No. 2879









ANNUAL SEPTIC TANK INSPECTION REQUIRED:

1) Access risers & lids in good condition.
2) Structural Integrity - probe interior walls/baffles, inlet/outlet T-pipes.
3) Check Tuf-Tite effluent filter and clean if needed.
4) Septic tank liquid level - should be at outlet invert in tank.

SEPTIC TANK SHALL BE PUMPED OUT WHENEVER SOLIDS or FLOATING MATERIAL EXCEED 30% OF TANK VOLUME OR ENCROACH ON INLET/OUTLET T's.

MINIMUM SEPTIC TANK PUMPING FREQUENCY IS 3 TO 5 YEARS.

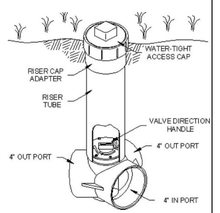
ON-SITE WATER TIGHTNESS TESTING

(REQUIRED PRIOR TO SEPTIC TANK USE)

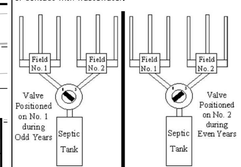
1. **FILL TANK TO 2" INTO BOTTOM OF RISER**
2. **LET TANK SIT FOR 1 HOUR**
3. **OBSERVE WATER LEVEL IN RISER BEFORE AND AFTER 1 HR PERIOD**
4. **IF LEVEL HAS FALLEN , INSPECT FOR LEAKS**
5. **REPAIR ANY LEAKS AND REPEAT TEST**

THE BULL RUN™ VALVE

The Bull Run Valve™ is designed to split flows to septic fields or systems. In addition to the advantages of longer life and easier installation it is the most public health safe alternating device available for wastewater disposal applications. The use has absolutely no contact with wastewater due to the valve's leak-proof and external operating characteristics. The change over from one drainage field to another can be accomplished in less than a minute by simply turning the valve without digging or contact with wastewater.



The Bull Run Valve is available in 4" sch 40 pvc and is suitable wherever septic disposal systems are used - in commercial, industrial, and residential applications.



OPERATING THE VALVE

The direction control handle should be rotated periodically to direct effluent to one or the other of two septic fields. After removing the screw cap at the top of the riser tube, the valve handle can be turned with the valve key furnished.

BULL RUN VALVE Complete Valve Kit Contains

1. Bull Run Valve body
2. 28" Valve Key
3. Riser Cap Adapter
4. Watertight Access Cap

ITEM	DESCRIPTION
BRV4	BULL RUN VALVE 4"
BRVBULK	BULL RUN VALVE & KEY ONLY
BRVCIRISER	BULL RUN VALVE RISER W/ CAST COVER
BRVKEY28	BULL RUN VALVE KEY 28"
BRVKEY36	BULL RUN VALVE KEY 36"
BRVKEY48	BULL RUN VALVE KEY 48"

BRVCIRISER - 4"

Christopher Day

Digitally signed by Christopher Day
Date: 2019.01.30 18:49:47 -08'00'

ORIGINAL:
REV 1:
REV 2:

PLAN BY: Christopher Day, R.E.H.S. P.O. Box 26, Redwood City, CA 94064 Tel. 650-293-1045 Email: christopherday@aol.com

OWNER: Mon Fong Lin Tel. 408-605-2203 Email:moore@pacific.net

Property on Columbet Ave., San Martin, CA 95046 Parcel 1 of APN 825-23-011 (SR0856161)

SITE PLAN

New Conventional Septic System Design Plan (To Subdivide Parcel & Serve Proposed 7 BR House)

OWTS 1