

# SIZING CALCULATIONS

LY

FOUR (4) BEDROOM SFD + THREE (3) BEDROOM ADU

P1 - 21 MPI P2 - 14 MPI P3 - 68 MPI P4 - 84 MPI P5 - 6 MPI P6 - 28 MPI

AVERAGE STABILIZED PERCOLATION RATE = 37 MPI  
WASTEWATER APPLICATION RATE = 0.51 GPD/SQFT

1. Wastewater design flow = 975 GPD (4 bed SFD + 3 Bed ADU)
2. Stabilized percolation rate = 37 MPI
3. Wastewater application rate = 0.51 GPD/SQFT
4. Quick 4 HC Infiltrator Chambers in lieu of rock
5. Square feet per linear infiltration area = 6.6

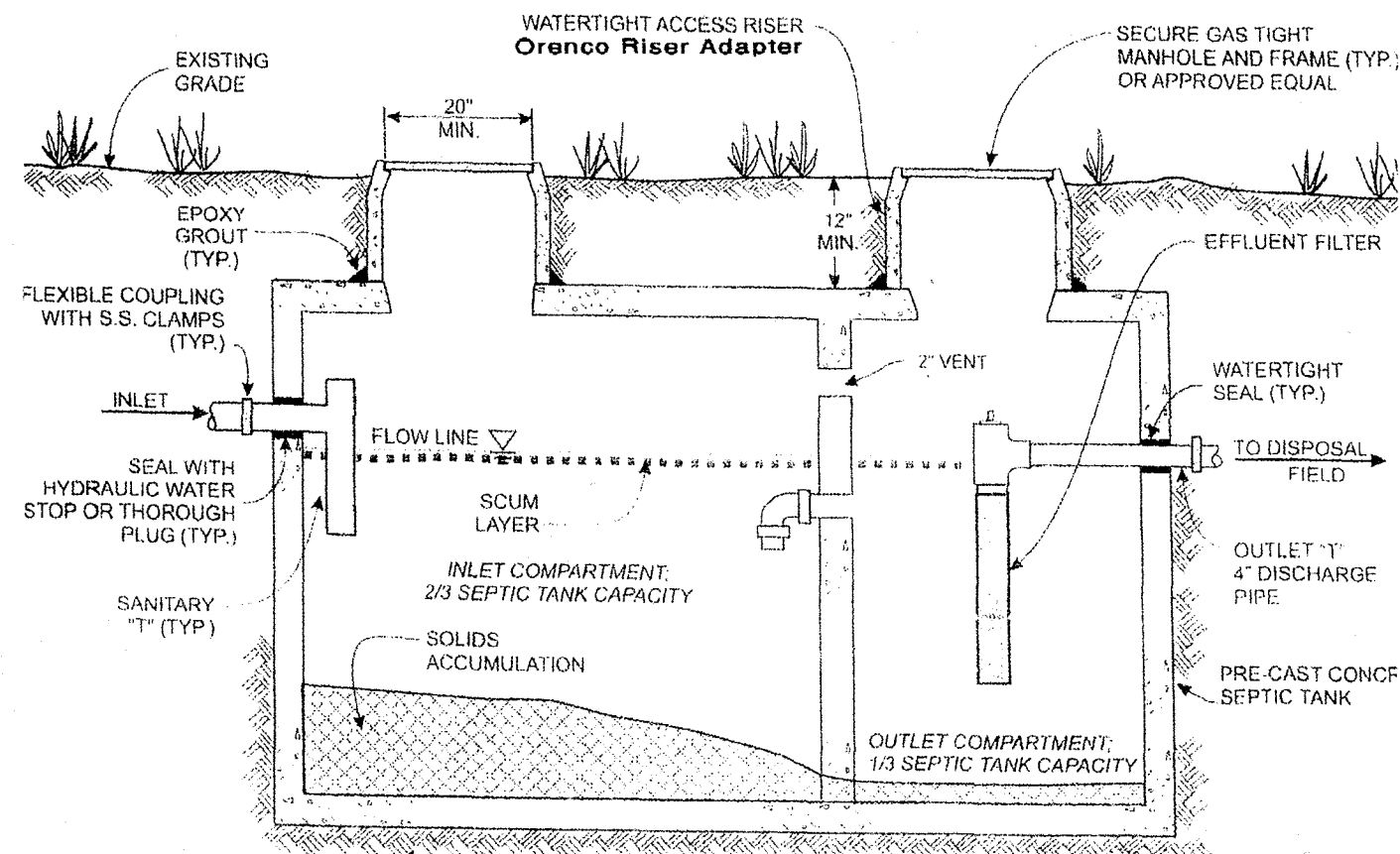
$$975 \text{ GPD} \div 0.51 \text{ GPD/SQFT} = 1912$$

$$1912 \div 6.6 = 290$$

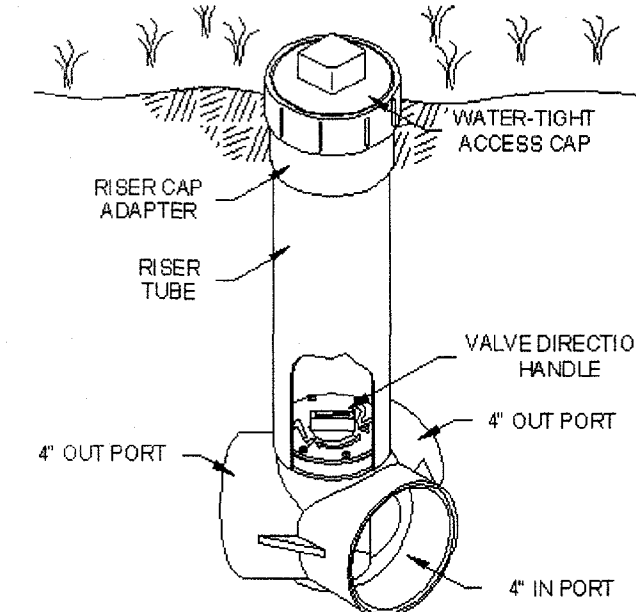
DISPERSAL FIELD REQUIRED = 290' + 290'

THIS OWTS PLAN IS SIZED FOR FUTURE ADU

## 2000 - GALLON SEPTIC TANK



## DIVERSION VALVE



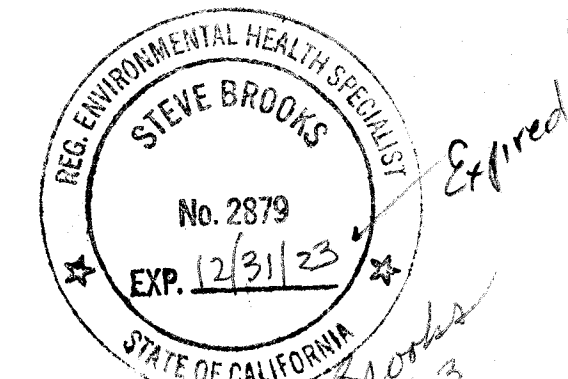
The Bull Run Valve is available in 4" sch 40 pvc and is suitable wherever septic disposal systems are used - in commercial, industrial, and residential applications.

### OPERATING THE VALVE

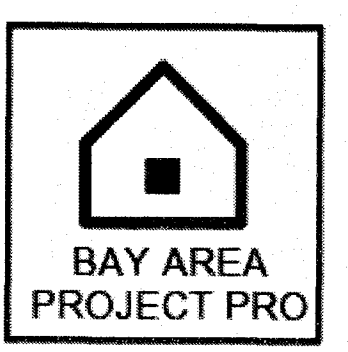
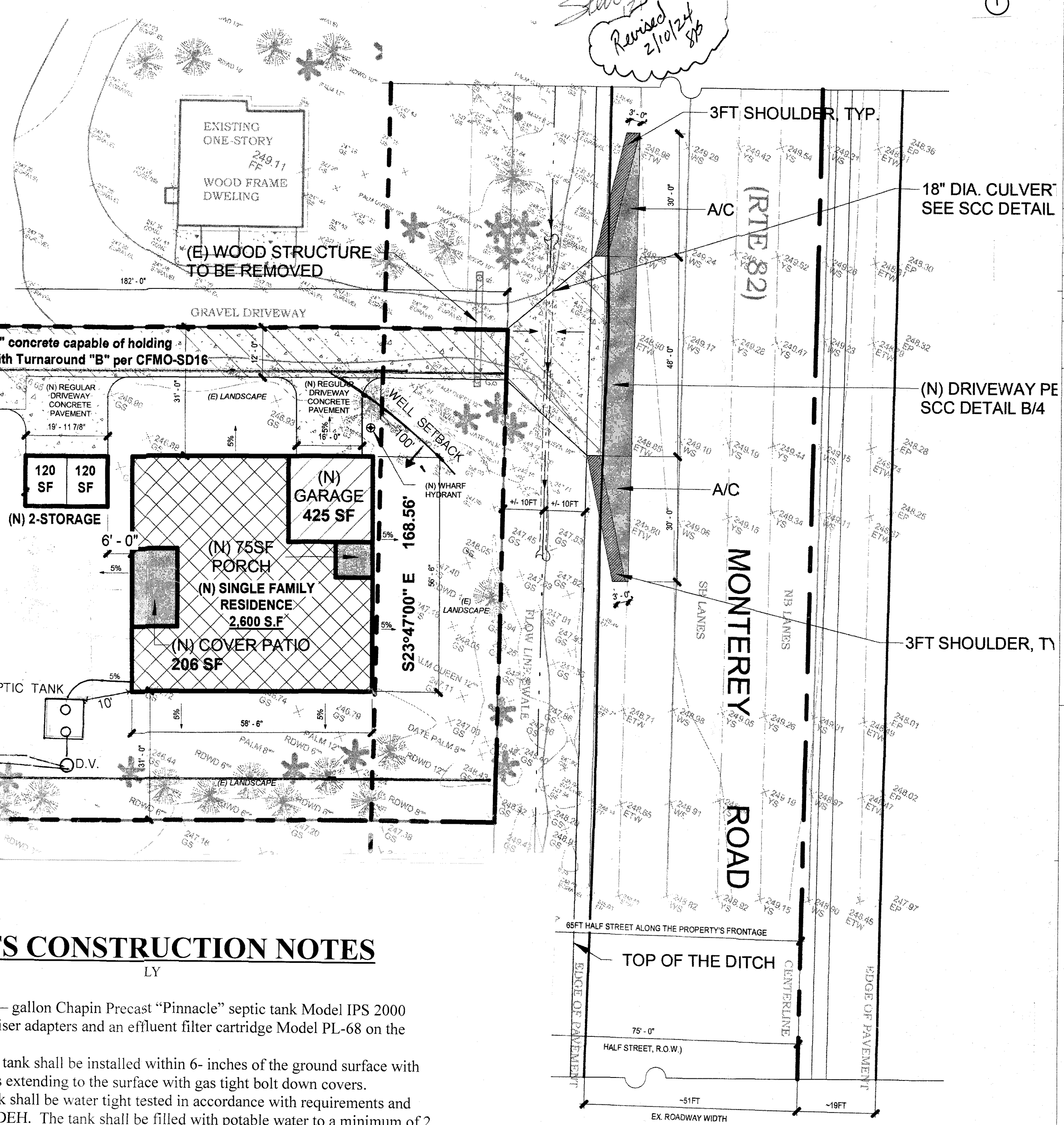
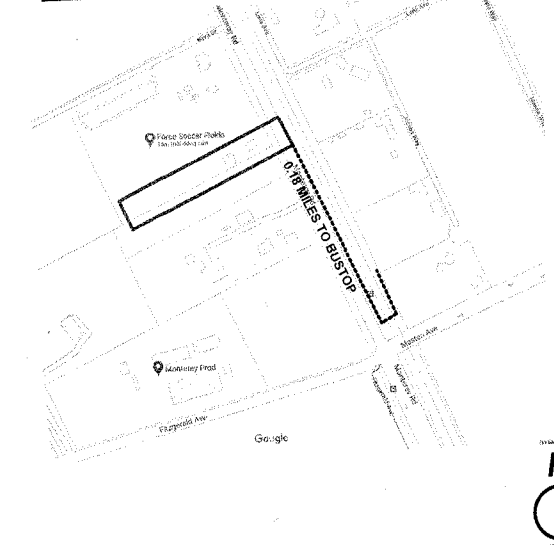
The direction control handle should be rotated periodically to direct effluent to one or the other of two septic fields. After removing the screw cap at the top of the riser tube, the valve handle can be turned with the valve key furnished.

# OWTS

## PLOT PLAN



VICINITY MAP



**PROJECT CONTACT**  
NAME: MY TRUONG  
PHONE: 408-550-5496  
EMAIL: BAYAREAPROJECTPRO@GMAIL.COM

**CIVIL ENGINEER**  
NAME: DUNG BUI  
ADDRESS: 2021 THE ALAMEDA SUITE 360, SAN JOSE, CA 95126  
PHONE: 408-621-0114  
EMAIL: DBENGINEERING@GMAIL.COM

REVISION		
ID	DATE	BY
1	2021/06/24	PLAN CHECK
2	2023/01/09	PLAN CHECK
3	2023/08/02	PLAN CHECK

**PROPOSED SITE PLAN**

**NEW SINGLE FAMILY RESIDENCE**

Monterey Highway, San Martin, CA 95020

DATE: 2023-07-05  
SCALE AS SHOWN  
DRAWN BY: HN  
JOB NO: #116  
DRAWING NO:

**SEWAGE SYSTEM REVIEW**  
SANTA CLARA COUNTY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
Project Description: SR No. 0875587  
New 4 bedroom SFR and future 3 bedroom ADU. Must obtain Nitrate loading for future ADU before DEH approval.

**APPROVAL RECOMMENDED**  
With existing System (Existing No. \_\_\_\_\_)  
X Install/modify system per plan (describe below)  
(Obtain a permit from Environmental Health)

New 2000 gallon septic tank connected 290' + 290' with infiltrators

R.E.H.S. Ross Kakinami Date: 02/29/2024  
Not A Sewage System Permit. Plan is void if absent signature.

## PERCOLATION TEST

TEST NO.	DATE	TIME	DEPTH	TEMP.	WATER LEVEL	PERCOLATION RATE	REMARKS
1	02/29/2024	08:00	18"	68°F	1.5"	0.51 GPD/SQFT	Good
2	02/29/2024	08:15	18"	68°F	1.5"	0.51 GPD/SQFT	Good
3	02/29/2024	08:30	18"	68°F	1.5"	0.51 GPD/SQFT	Good
4	02/29/2024	08:45	18"	68°F	1.5"	0.51 GPD/SQFT	Good
5	02/29/2024	09:00	18"	68°F	1.5"	0.51 GPD/SQFT	Good
6	02/29/2024	09:15	18"	68°F	1.5"	0.51 GPD/SQFT	Good
7	02/29/2024	09:30	18"	68°F	1.5"	0.51 GPD/SQFT	Good
8	02/29/2024	09:45	18"	68°F	1.5"	0.51 GPD/SQFT	Good
9	02/29/2024	10:00	18"	68°F	1.5"	0.51 GPD/SQFT	Good
10	02/29/2024	10:15	18"	68°F	1.5"	0.51 GPD/SQFT	Good
11	02/29/2024	10:30	18"	68°F	1.5"	0.51 GPD/SQFT	Good
12	02/29/2024	10:45	18"	68°F	1.5"	0.51 GPD/SQFT	Good
13	02/29/2024	11:00	18"	68°F	1.5"	0.51 GPD/SQFT	Good
14	02/29/2024	11:15	18"	68°F	1.5"	0.51 GPD/SQFT	Good
15	02/29/2024	11:30	18"	68°F	1.5"	0.51 GPD/SQFT	Good
16	02/29/2024	11:45	18"	68°F	1.5"	0.51 GPD/SQFT	Good
17	02/29/2024	12:00	18"	68°F	1.5"	0.51 GPD/SQFT	Good
18	02/29/2024	12:15	18"	68°F	1.5"	0.51 GPD/SQFT	Good
19	02/29/2024	12:30	18"	68°F	1.5"	0.51 GPD/SQFT	Good
20	02/29/2024	12:45	18"	68°F	1.5"	0.51 GPD/SQFT	Good

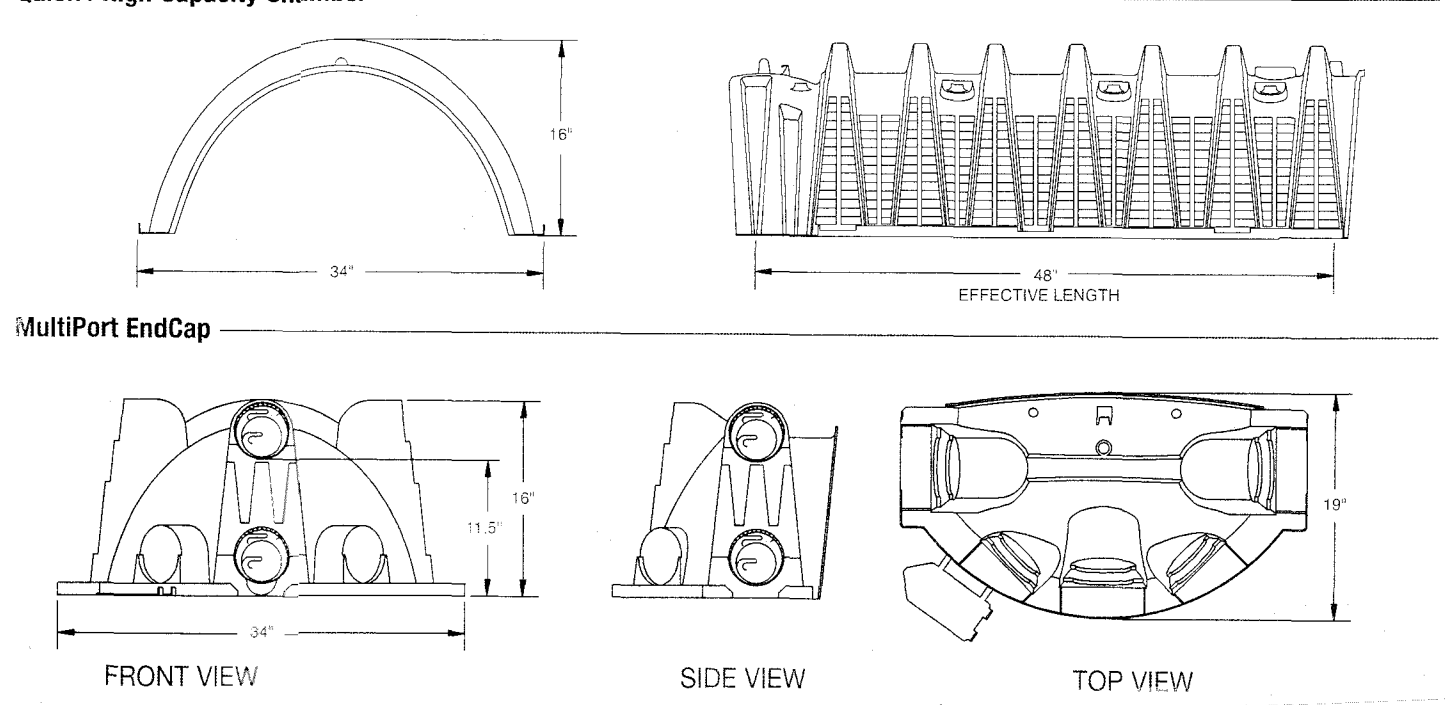
## SOIL PROFILES

SOIL PROFILE INSPECTION RESULTS

OWNER: Brandon Ly DATE OF INSPECTION: 1/21/24  
ADDRESS: 11205 Monterey Rd, San Jose, CA 95026  
APN: 779-15-037 CONDUCTED BY: Mike Wirtz CHECKED BY: Mike Wirtz

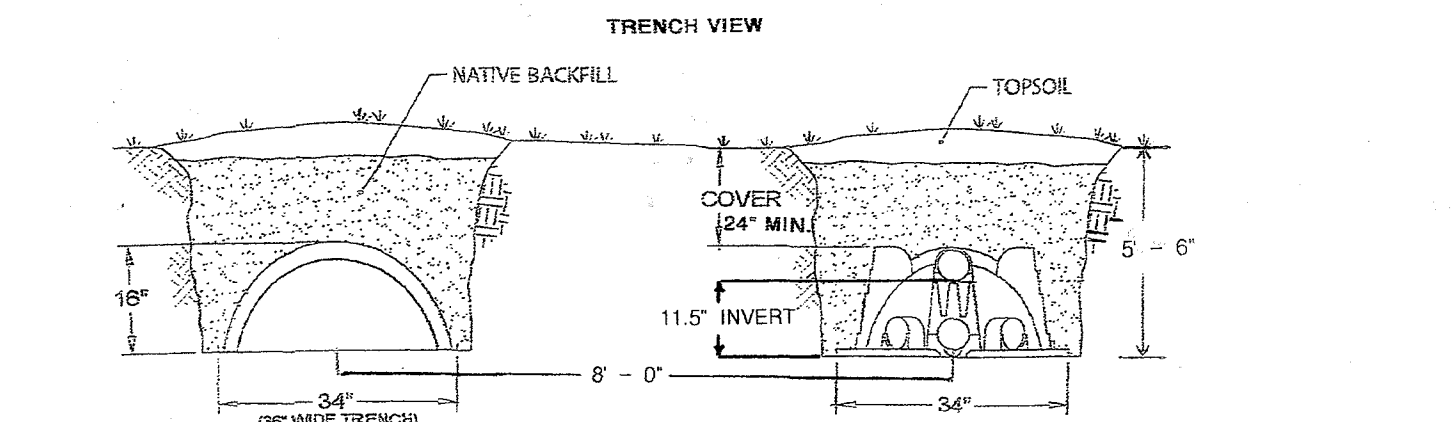
BORER #	DEPTH	SOIL TYPE	REMARKS
1	0-12"	Chalk clay with cobbles	
2	12-18"	Dark	
3	18-24"	Orange-brown sand	
4	24-30"	Light brown sand	
5	30-36"	Light brown sand	
6	36-42"	Light brown sand	
7	42-48"	Light brown sand	
8	48-54"	Light brown sand	
9	54-60"	Light brown sand	
10	60-66"	Light brown sand	
11	66-72"	Light brown sand	
12	72-78"	Light brown sand	
13	78-84"	Light brown sand	
14	84-90"	Light brown sand	
15	90-96"	Light brown sand	
16	96-102"	Light brown sand	
17	102-108"	Light brown sand	
18	108-114"	Light brown sand	
19	114-120"	Light brown sand	
20	120-126"	Light brown sand	
21	126-132"	Light brown sand	
22	132-138"	Light brown sand	
23	138-144"	Light brown sand	
24	144-150"	Light brown sand	
25	150-156"	Light brown sand	
26	156-162"	Light brown sand	
27	162-168"	Light brown sand	
28	168-174"	Light brown sand	
29	174-180"	Light brown sand	
30	180-186"	Light brown sand	
31	186-192"	Light brown sand	
32	192-198"	Light brown sand	
33	198-204"	Light brown sand	
34	204-210"	Light brown sand	
35	210-216"	Light brown sand	
36	216-222"	Light brown sand	
37	222-228"	Light brown sand	
38	228-234"	Light brown sand	
39	234-240"	Light brown sand	
40	240-246"	Light brown sand	
41	246-252"	Light brown sand	
42	252-258"	Light brown sand	
43	258-264"	Light brown sand	
44	264-270"	Light brown sand	
45	270-276"	Light brown sand	
46	276-282"	Light brown sand	
47	282-288"	Light brown sand	
48	288-294"	Light brown sand	
49	294-300"	Light brown sand	
50	300-306"	Light brown sand	
51	306-312"	Light brown sand	
52	312-318"	Light brown sand	
53	318-324"	Light brown sand	
54	324-330"	Light brown sand	
55	330-336"	Light brown sand	
56	336-342"	Light brown sand	
57	342-348"	Light brown sand	
58	348-354"	Light brown sand	
59	354-360"	Light brown sand	
60	360-366"	Light brown sand	
61	366-372"	Light brown sand	
62	372-378"	Light brown sand	
63	378-384"	Light brown sand	
64	384-390"	Light brown sand	
65	390-396"	Light brown sand	
66	396-402"	Light brown sand	
67	402-408"	Light brown sand	
68	408-414"	Light brown sand	
69	414-420"	Light brown sand	
70	420-426"	Light brown sand	
71	426-432"	Light brown sand	
72	432-438"	Light brown sand	
73	438-444"	Light brown sand	
74	444-450"	Light brown sand	
75	450-456"	Light brown sand	
76	456-462"	Light brown sand	
77	462-468"	Light brown sand	
78	468-474"	Light brown sand	
79	474-480"	Light brown sand	
80	480-486"	Light brown sand	
81	486-492"	Light brown sand	
82	492-498"	Light brown sand	
83	498-504"	Light brown sand	
84	504-510"	Light brown sand	
85	510-516"	Light brown sand	
86	516-522"	Light brown sand	
87	522-528"	Light brown sand	
88	528-534"	Light brown sand	
89	534-540"	Light brown sand	
90	540-546"	Light brown sand	
91	546-552"	Light brown sand	
92	552-558"	Light brown sand	
93	558-564"	Light brown sand	
94	564-570"	Light brown sand	
95	570-576"	Light brown sand	
96	576-582"	Light brown sand	
97	582-588"	Light brown sand	
98	588-594"	Light brown sand	
99	594-600"	Light brown sand	
100	600-606"	Light brown sand	

## Quick4 High Capacity Chamber



Parameter	Value
Size	34"W x 53"L x 16"H (864 mm x 1346 mm x 406 mm)
Effective Length	48" (1219 mm)
Louver Height	12.2" (310 mm)
Storage Capacity	62 gal (235 L)
Invert Height	11.5" (292 mm)

## QUICK 4 HIGH CAPACITY INFILTRATOR CHAMBER DETAIL



## WATER - TIGHTNESS TESTING

Testing must be witnessed by a representative of the County Department of Environmental Health Services. Testing shall be done with the risers in place and the inlet and outlet pipes plugged. The tank shall be filled with water to a level two (2) inches above the riser joint and monitored for a 1-hour period, with no measurable drop in the water level.

## OWTS CONSTRUCTION NOTES

1. Install a 2000 - gallon Chapin Precast "Pinnacle" septic tank Model IPS 2000 with Orenco riser adapters and an effluent filter cartridge Model PL-68 on the outlet.
2. The top of the tank shall be installed within 6- inches of the ground surface with manhole risers extending to the surface with gas tight bolt down covers.
3. The septic tank shall be water tight tested in accordance with requirements and witnessed by DEH. The tank shall be filled with potable water to a minimum of 2 - inches above the riser joint with risers sealed in place. (see detail)
4. Install a Bull Run Diversion Valve within 6 - feet of the septic tank.
5. Diversion valve shall be enclosed within an irrigation box or equal for ease of access.
6. Connect each outlet of the DV to the dispersal field as shown.
7. High Capacity Infiltrator Chambers shall be used in lieu of standard drain rock.
8. Install a dispersal field consisting of two (2) equal sections of 290 feet.
9. Dispersal trenches shall be 36 - inches wide and not to exceed 5 feet 6 inches (5' - 6") in depth.
10. Dispersal trenches shall be level from one end to the other and spaced 8 - feet apart as measured center to center.
11. Install an Inspection Port at the end of each trench as shown.
12. No portion of the OWTS shall be with 100 feet of existing wells or proposed well.