

Impervious Area Summary

(4) Proposed Ag Housing	4,800 SF
Proposed Walkway	712 SF
Proposed Parking	5,290 SF
Proposed Frontage Improvements	2,282 SF
Total New Impervious Area	13,084 SF

Proposed Floor Area

(4) Ag Worker Housing	4,800 SF
Total Floor Area	4,800 SF

Earthwork Quantities

	Cut	Fill	Net	Max Cut	Max Fill
Building Pads	0 cy	86 cy	70 cy (fill)	0.00'	1.50'
Driveway	86 cy	52 cy	106 cy (cut)	1.50'	0.00'
Stormwater Treatment	52 cy	0 cy	52 cy (cut)	2.00'	0.00'
Total	138 cy	138 cy	Balanced		

Proposed Parking

Standard Spaces	12
Van Accessible	1
Total Parking Spaces	13

Applicant/Owner:
 Bob Martinez
 Alfredo Alonso
 P.O. Box 1108
 San Martin, 95046
 bob.rom1@gmail.com
 408.640.3443

Engineer:
 David L. Faria, RCE 92432
 Faria Engineering & Surveying
 1656 Cienege Road
 Hollister, CA 95023
 602.515.7650
 david@fariaengineering.com

Project Information:
 APN: 841-44-057
 Present Use: Vacant
 Proposed Use: Residential
 Present Zoning: A-40Ac-sr
 Existing Improvements: As Shown
 Water: Proposed Well
 Sanitary Sewer: Proposed OWTS
 Gas & Electric: PGE
 Fire Responsibility Area: SRA
 Wildland Urban Interface: IN
 HCP Area: Rural Development Not Covered
 Hazard Zone(s): N/A
 Gross Area: 10.401 ac
 Net Area: 10.010 ac

Boundary Note: Property lines shown on this plan are based on that certain Parcel B and C as shown on that certain Record of Survey, filed for record on January 23, 2017 in Book 901 of Maps at page 26, Santa Clara County Records.

Flood Zone: The property lies in Zone D(100%) per FEMA Firm Panel 06085C0645H, effective May 18, 2009.

Basis of Bearings: The bearings shown on this map are based on the centerline of Canada Road recorded as S43°10'W on that certain Parcel Map filed for record in Book 648 of Maps at page 26, Santa Clara County Records.

Benchmark: Elevations shown on this plan area based on the top of a 3/4" iron pipe w/ plug (LS 6809) located at the northmost property corner. Elev: 224.02'

Tree Notes: No trees to be removed.

- Fire Notes:**
1. Fire Sprinklers shall be a deferred submittal.
 2. Property is located in the State Response Area.
 3. Property is in Wildland Urban Interface (WUI).
 4. Structures to meet WUI construction requirements.
 5. Property to maintain defensible space at all times.
 6. Driveway width will be maintained at 12' minimum with a clear height of 13' 6".
 7. Existing driveway capable of supporting 75,000 lbs.
 8. All proposed driveways to be made of an all weather surface capable of supporting 75,000 lbs.
 9. All proposed driveways shall have a max. slope of 16%.

Legend

	Proposed Ag Worker Housing
	Proposed Concrete
	Existing Contour

Area of Disturbance = 40,784 SF



NO.	REVISIONS	BY
1		
2		
3		
4		
5		

FARIA ENGINEERING & SURVEYING
 PLANNING • BUILDING • SEPTIC
 david@fariaengineering.com
 (602) 515-7650

Martinez - Site Plan
0 Canada Road - APN 841-44-058

DATE: 7/22/2024
 SCALE: 1" = 20'
 DRAWN BY: DF
 CHECKED BY: DF
 JOB NO: **223011**
 SHEET NO: **1**
 OF **1**

Sizing Calculations
(4) - Three Bedroom AG Worker Housing Units

Adjusted Stabilized Percolation Rate (MPI)
P1 = 7.0, P2 = 168.0 FAIL, P3 = 5.6, P4 = 53.1, P5 = 84.0, P6 = 168.0 FAIL

Average Stabilized Percolation Rate Using Passing Holes = 37.42 MPI
Wastewater Application Rate = 0.31 GPD/SQFT

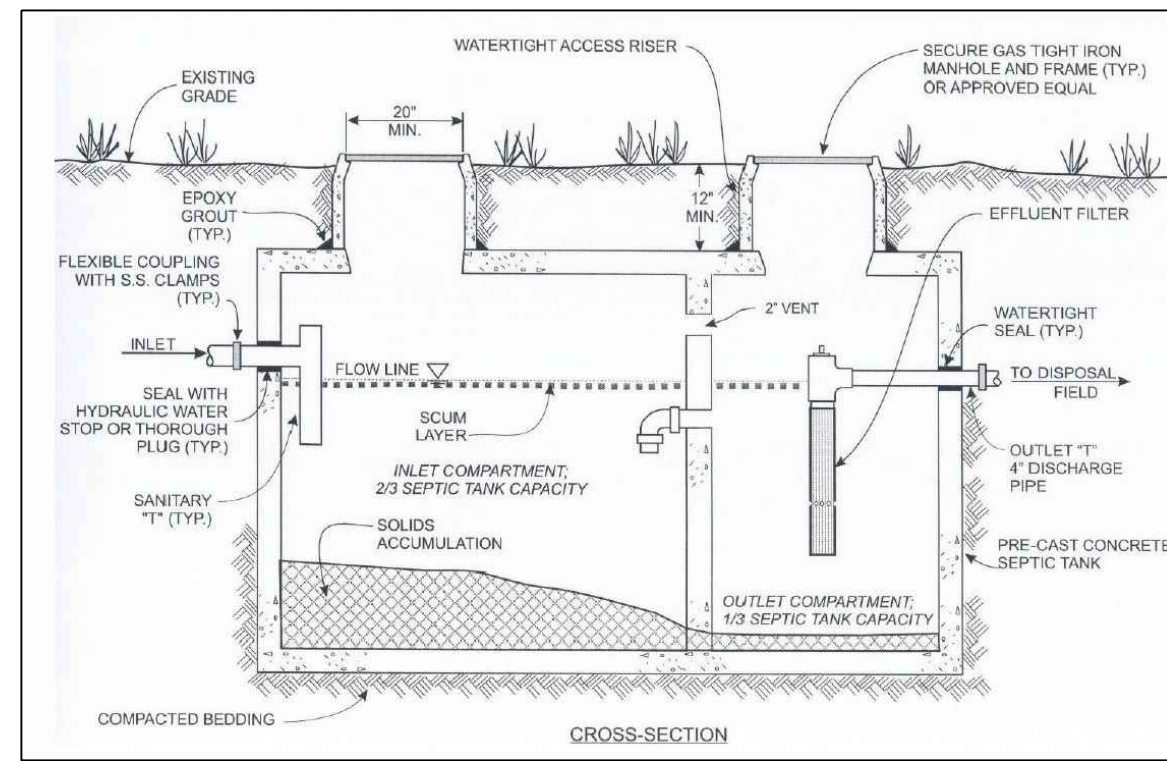
1. Wastewater design flow = 1800 GPD
2. Stabilized percolation rate = 38 MPI
3. Wastewater application rate = 0.50 GPD/SQFT
4. Width of Trench = 24"
5. Rock below perforated drain pipe = 24"
6. Infiltration area per linear foot = 6.0

Design Calculations
1800 GPD / 0.50 = 3600
3600 / 6.0 = 600 LF

Dispersal Field Required = 600 LF + 600 LF

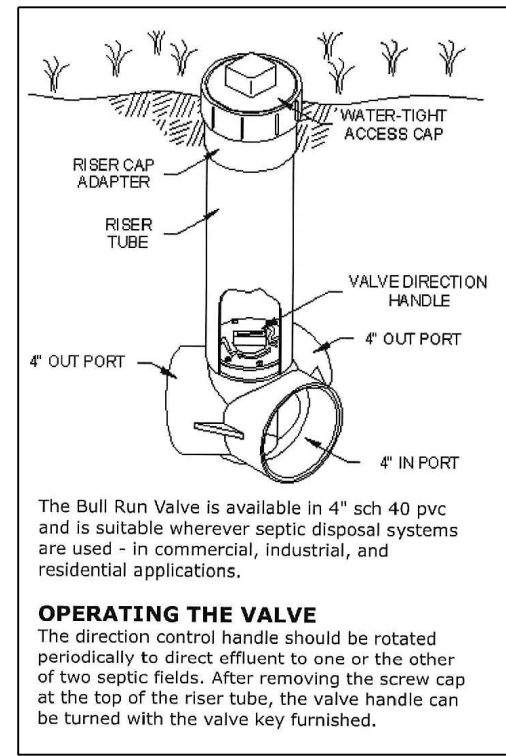
Construction Notes

1. Install (2) 2000 gallon septic tanks Model IPS2000 with Orenco riser adapters and effluent filter cartridge Model PL-88 on outlet.
2. Install 3000 gallon pump tank Model IPS3000H with Orenco riser adapter.
3. The riser adapters shall extend to the ground surface with bolt down lids.
4. The septic tank and pump tank must pass the water tightness test required by DEH.
5. Connect the outlet of the septic tank to the pump tank as shown.
6. Install Liberty Orenco PKP350 submersible effluent pump within pump tank.
7. Install Rhombus 112 control panel with magnetic contractor, circuit breaker, alarm horn and beacon, NEMA 4x enclosure, and N/O float switches. Install panel on the house exterior wall near the pump tank.
8. Connect 2" pressure line to concrete distribution box.
9. Connect 4 inch discharge pipe from distribution box to Diverter valve.
10. Install Bull Run diversion valve in location shown. The diversion valve shall be enclosed (covered) by a Oldcastle Precast Underground box (10"x16") or equal with waterproof cover.
11. Each outlet of the diversion valve shall connect to a 4" PVC manifold pipe as shown.
12. The manifold pipe shall be level to ensure even distribution of effluent to the diversion valve.
13. Install dual dispersal fields of 600 linear feet each side of the diversion valve as shown.
14. Each dispersal trench shall be separated 6 feet apart measured from center to center.
15. Install inspection port at end of each trench and cover each riser with a utility box for ease of access and protection from damage.
16. No portion of the dispersal field shall be within 100 feet of a well.

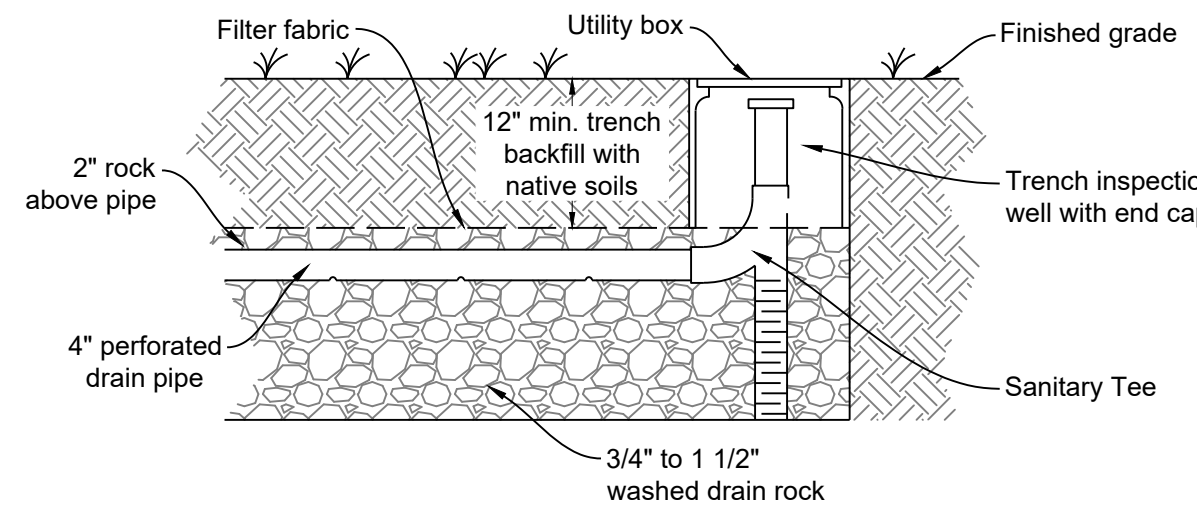


Water Tightness Testing

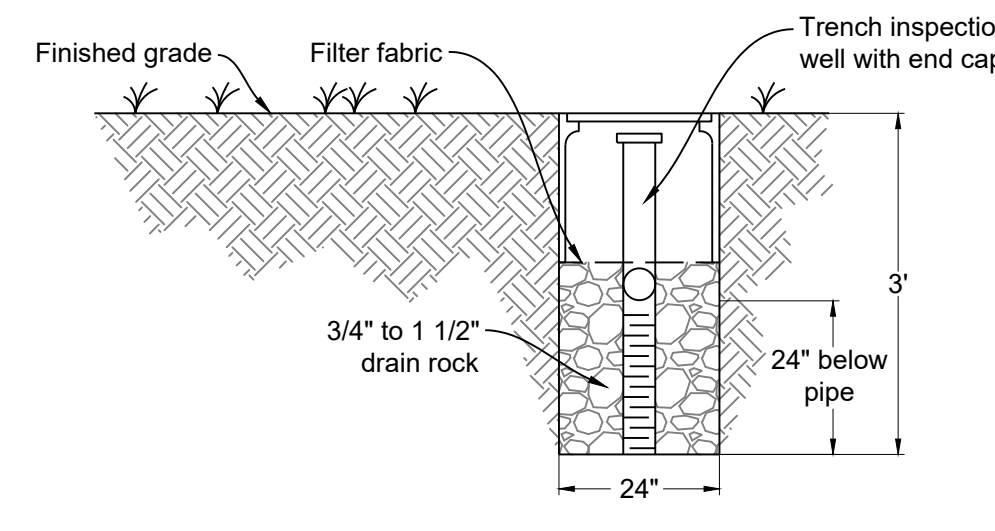
Testing must be witnessed by a representative of the County Department of Environmental Health Services. Testing shall be done with the risers in place and the inlet and outlet pipes plugged. The tank shall be filled with water to a level of two (2) inches into the risers and monitored for a one (1)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



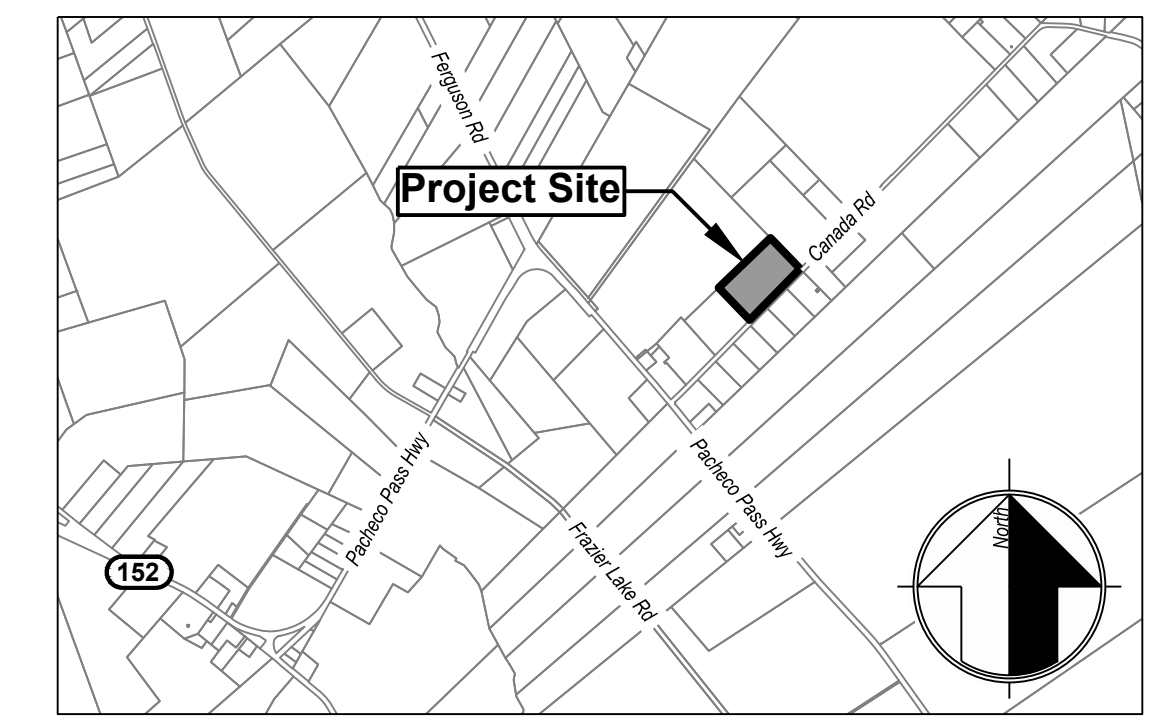
Diverter Valve Detail



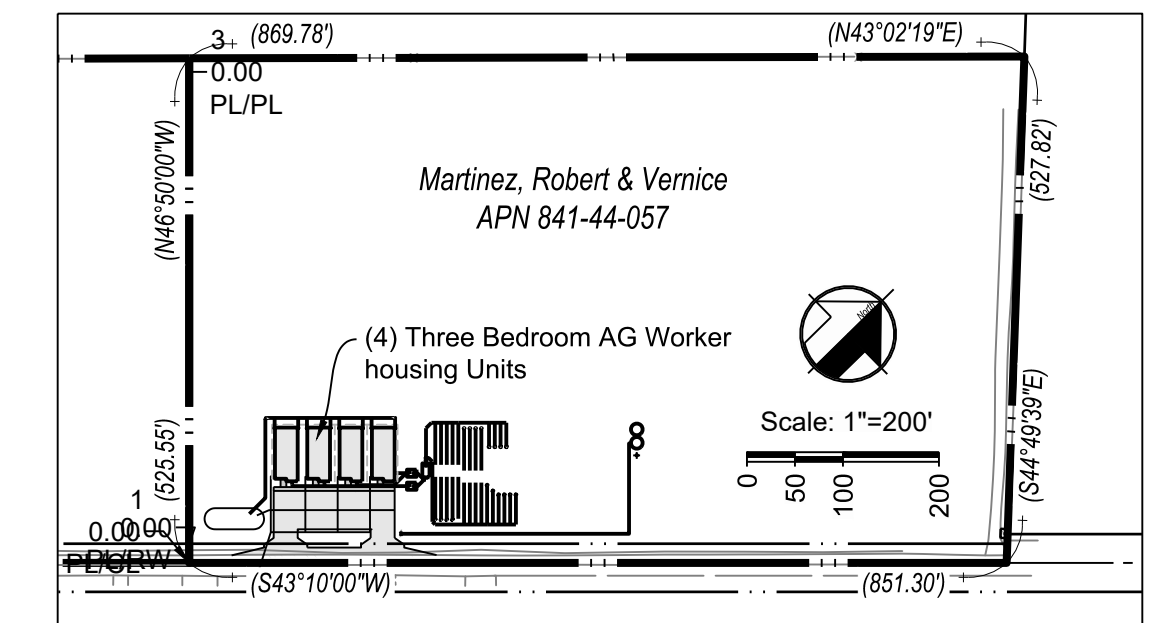
Trench Detail - Side View



Trench Detail - End View

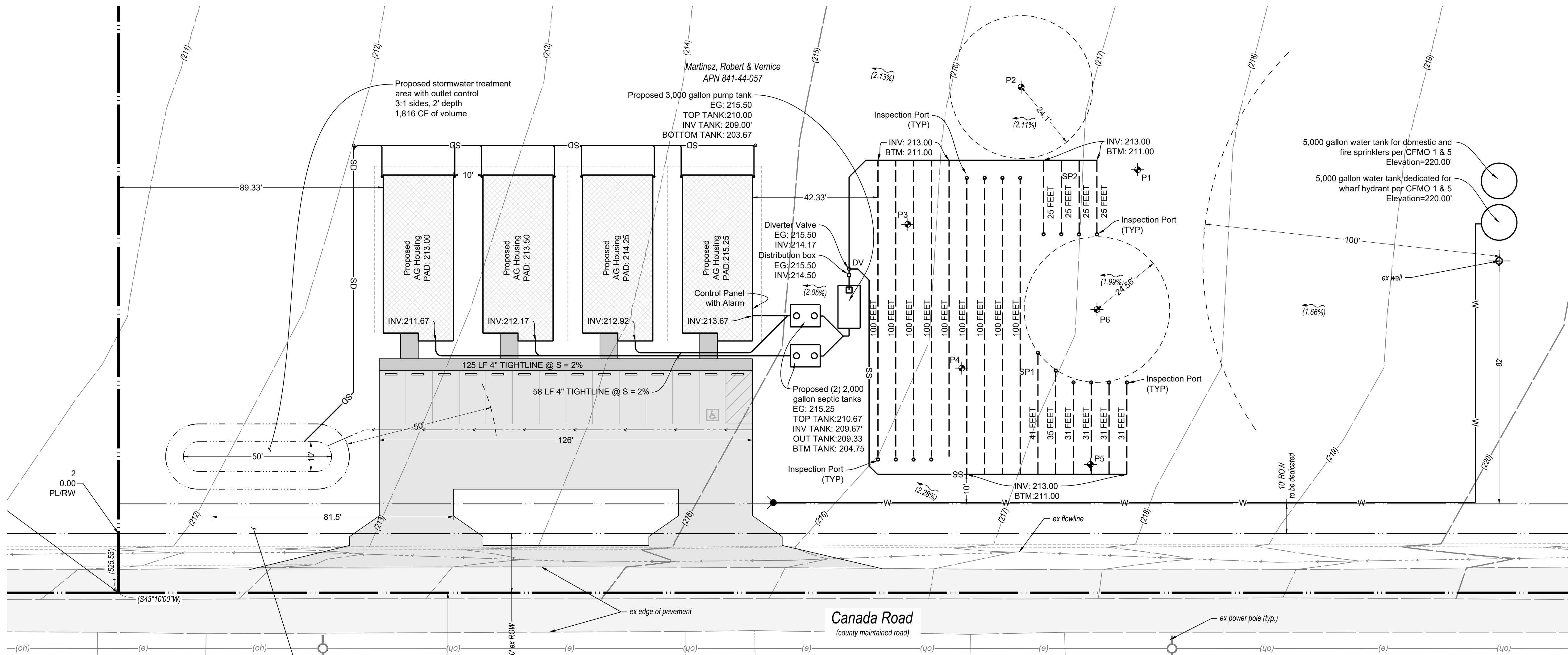


Vicinity Map



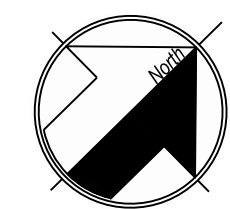
Site Map

County of Santa Clara - Department of Environmental Health																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Legend

- Proposed Ag Worker Housing
- Proposed Concrete
- Existing Contour



Applicant/Owner:
Bob Martinez
Alfredo Alonso
P.O. Box 1108
San Martin, 95046
bob.rcm1@gmail.com
408.640.3443

Engineer:
David L. Faria, RCE 92432
Faria Engineering & Surveying
1656 Cienega Road Unit 100
Hollister, CA 95023
602.515.7650
david@fariaengineering.com

Project Information:

APN: 841-44-057
Present Use: Vacant
Proposed Use: Residential
Present Zoning: A-40Ac-sr
Existing Improvements: As Shown
Water: Existing Well
Sanitary Sewer: Proposed OWTS
Gas & Electric: PGE
Fire Responsibility Area: SRA
Wildland Urban Interface: IN
Hazard Zone(s): N/A
Gross Area: 10.401 ac
Net Area: 10.010 ac

DATE: 1/28/2024
SCALE: 1" = 20'
DRAWN BY: DF
CHECKED BY: DF
JOB NO.: 223011
SHEET NO.: 2
OF 2

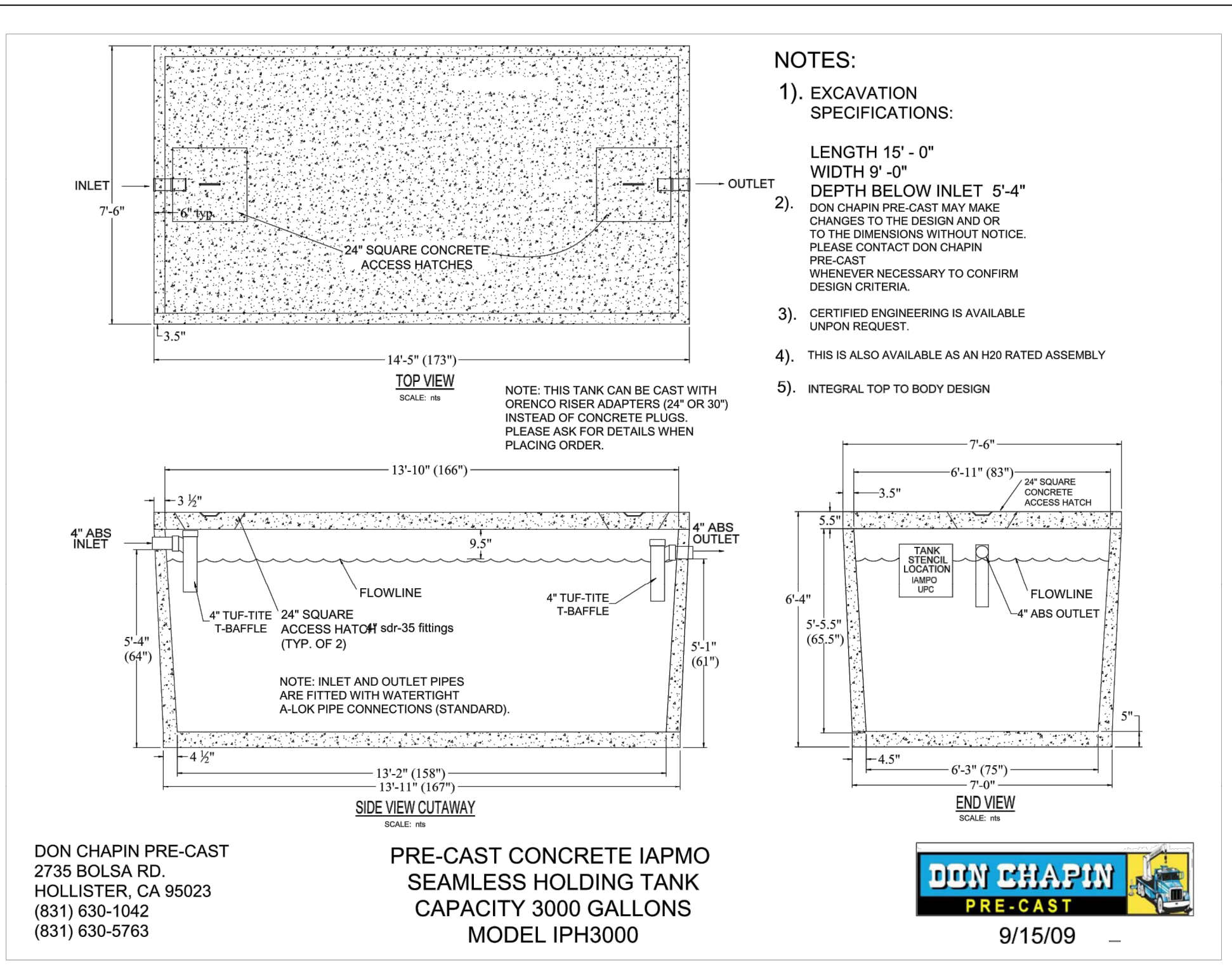


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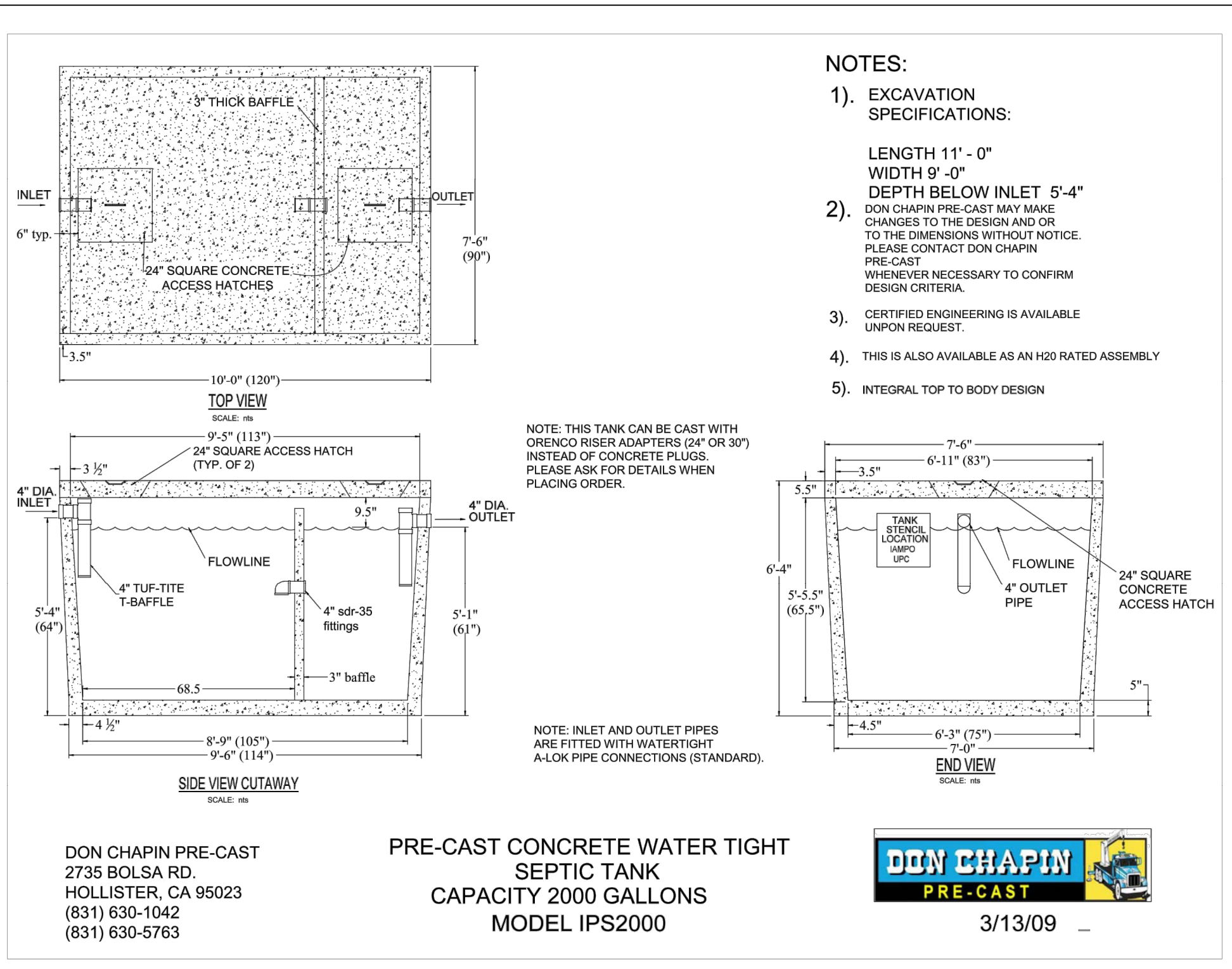
FARIA ENGINEERING & SURVEYING
PLANNING * BUILDING * SEPTIC
david@fariaengineering.com
(602) 515-7650

OWTS Plot Plan
0 Canada Road - APN 841-44-058

3000 GALLON PUMP TANK



2000 GALLON SEPTIC TANKS



CONTROL PANEL FOR PUMP TANK

MODEL 112 CONTROL PANEL
Single Phase, Simplex Motor Contactor Control

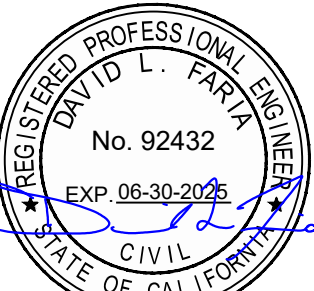
COMPONENTS

- Enclosure measures 10 1/2 x 8 1/2 x 4 inches (25 x 20 x 10 cm) NEMA 4X (submersible/industrial thermostatic) for indoor or outdoor use.
- Integral pushbutton latches for added safety.
- Integral mounting feet for indoor or outdoor use.
- Simplex controller provides pump and alarm control; elevated in the enclosure for easy access and field wiring.
- Pump run green LED indicator.
- Control power ON/OFF switch.
- Power ON green LED indicator.
- Float push-to-test buttons.
- Optional adjustable seal failure circuit and red LED.
- Auxiliary alarm contacts Form C.
- Optional adjustable seal failure circuit and red LED.
- Magnetic motor contactor.
- Ground lug.
- Circuit breaker.
- Red LED beacon provides 360° visual check of alarm condition. Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
- Alarm horn provides audible warning of alarm condition (RS 85 decibel rating). Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn (not shown).
- Exterior alarm reset/normal/advance switch allows horn to be silenced in an alarm condition; alarm automatically restarts once alarm condition has been cleared (Not shown).

Notes: Voltage, and amp range selected may change enclosure size and component layout. Other options available. Schematic/Wiring Diagram and Pump Specification Label are located inside the panel.

SJE RHOMBUS

122001, Rev 12/10
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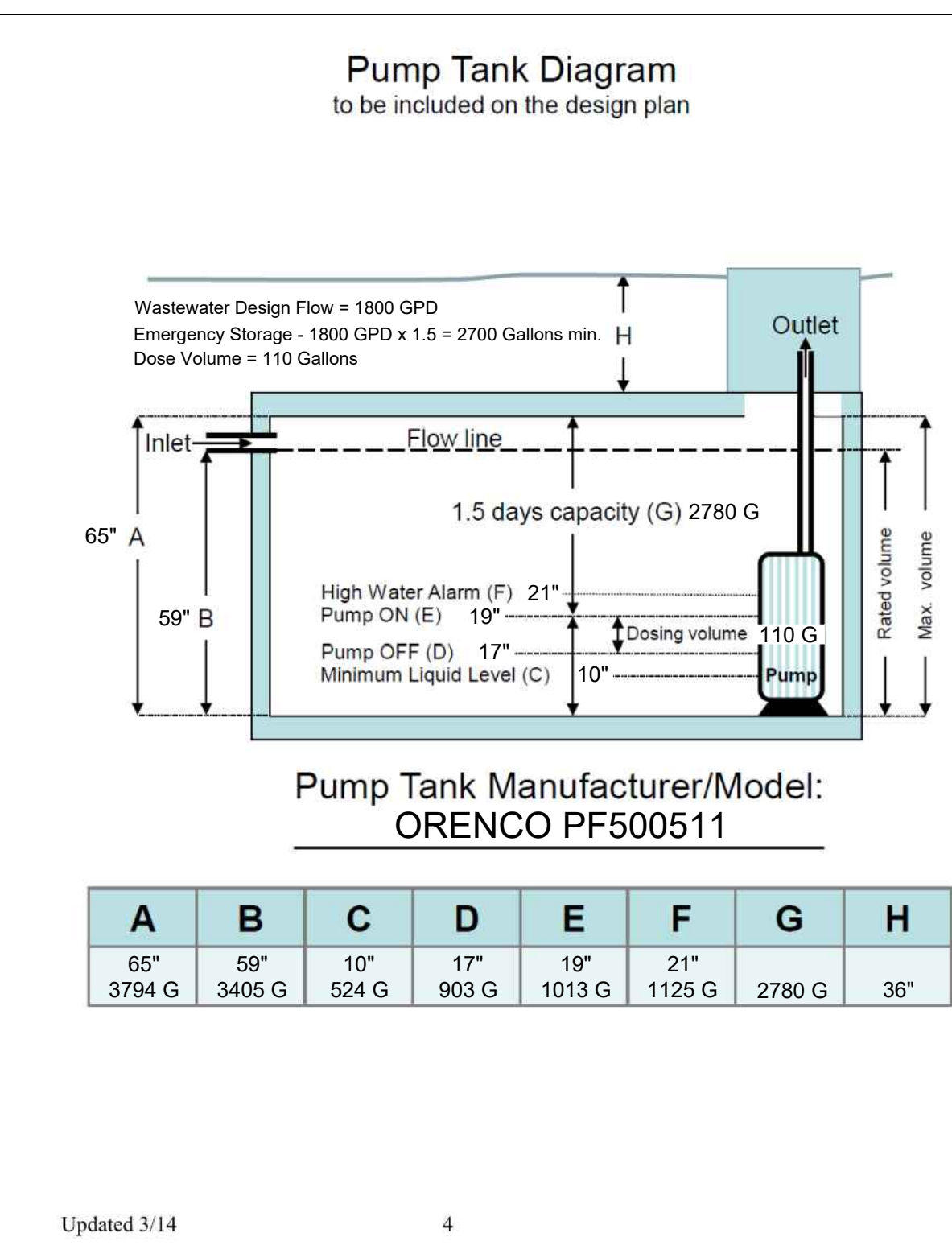


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dave@fariaing.com
8602 515-1650

3000 GALLON PUMP TANK FLOAT SETTINGS



3000 GALLON PUMP TANK VOLUME

3000-gallon Plastic Tank (volume to the bottom of the tank lid)

Height (inches)	Volume in Gallons (ignores baffles)	Volume in Gallons (with baffles)
0	0	0
1	51	101
2	103	202
3	154	303
4	207	404
5	258	505
6	311	606
7	362	707
8	417	808
9	470	909
10	525	1010
11	578	1111
12	633	1212
13	686	1313
14	739	1414
15	794	1515
16	846	1616
17	902	1717
18	955	1818
19	1010	1919
20	1062	2020
21	1117	2121
22	1170	2222
23	1225	2323
24	1278	2424
25	1333	2525
26	1385	2626
27	1440	2727
28	1493	2828
29	1548	2929
30	1600	3030
31	1655	3131
32	1708	3232
33	1763	3333
34	1814	3434
35	1870	3535
36	1923	3636
37	1979	3737
38	2030	3838
39	2083	3939
40	2139	4040
41	2192	4141
42	2247	4242
43	2300	4343
44	2355	4444
45	2407	4545
46	2462	4646
47	2513	4747
48	2568	4848
49	2619	4949
50	2673	5050
51	2729	5151
52	2782	5252
53	2837	5353
54	2889	5454
55	2943	5555
56	2995	5656
57	3050	5757
58	3101	5858
59	3156	5959
60	3209	6060
61	3263	6161
62	3316	6262
63	3371	6363
64	3423	6464
65	3478	6565
66	3529	6666
67	3582	6767
68	3634	6868
69	3687	6969
70	3740	7070
71	3792	7171
72	3845	7272
73	3897	7373
74	3950	7474
75	4002	7575
76	4055	7676
77	4107	7777
78	4160	7878
79	4212	7979
80	4265	8080
81	4317	8181
82	4370	8282
83	4422	8383
84	4475	8484
85	4527	8585
86	4580	8686
87	4632	8787
88	4685	8888
89	4737	8989
90	4790	9090
91	4842	9191
92	4895	9292
93	4947	9393
94	5000	9494
95	5052	9595
96	5105	9696
97	5157	9797
98	5210	9898
99	5262	9999
100	5315	10000

MIN. LIQUID LEVEL

PUMP OFF

PUMP ON

ALARM ON

Updated 3/14

PUMP SYSTEM WORKSHEET

PUMP SYSTEM WORKSHEET

Applicant: Bob Martinez Date: 01/28/2024
 Designer: Bob Martinez File No.:
 Site Address: 0 Canada Road City: Gilroy APN: 841-44-058
 Number of bedrooms: (4) - 3 BR/1 Bath Total square footage of living space: 100 %
 Septic tank size: (2) 2000 G. Installed drainfield: 550 + 550 Expansion drainfield: 100 %

Elevation of highest drainfield (ft) 213.00
 Elevation of pump off (ft) 205.08
 Total lift (F) Head = 7.92 (A)

TIGHT LINE
 Diameter of tight line (inches) 2"
 Length of tight line from pump to upper drainfield (ft) 5' (B)

FITTINGS

No. of Fittings	Pipe Length Equivalent (ft)	Total Pipe Equivalent (ft)
4 90° standard elbow	X	= 24
One 45° standard elbow	X	=
One 90° long radius elbow	X	=
Other fittings	X	=
1 gate valve (fully open)	X	= 1.5
1 check valve (conventional swing)	X	= 13

Total Length of Pipe = B + C = 43.5 (D) TOTAL = 38.5 (C)

CALCULATIONS:
 Friction Loss in Pipes and Fittings:
 (D=100 ft x 4.10 (friction loss per chart) = 4.10 (E) Head in Feet

Required Pump Size:
 (A) + (E) = 10 (F) Total Pumping Head in Feet

Pump Size:
 (F) versus GPM = Pump Size (refer to pump curve)

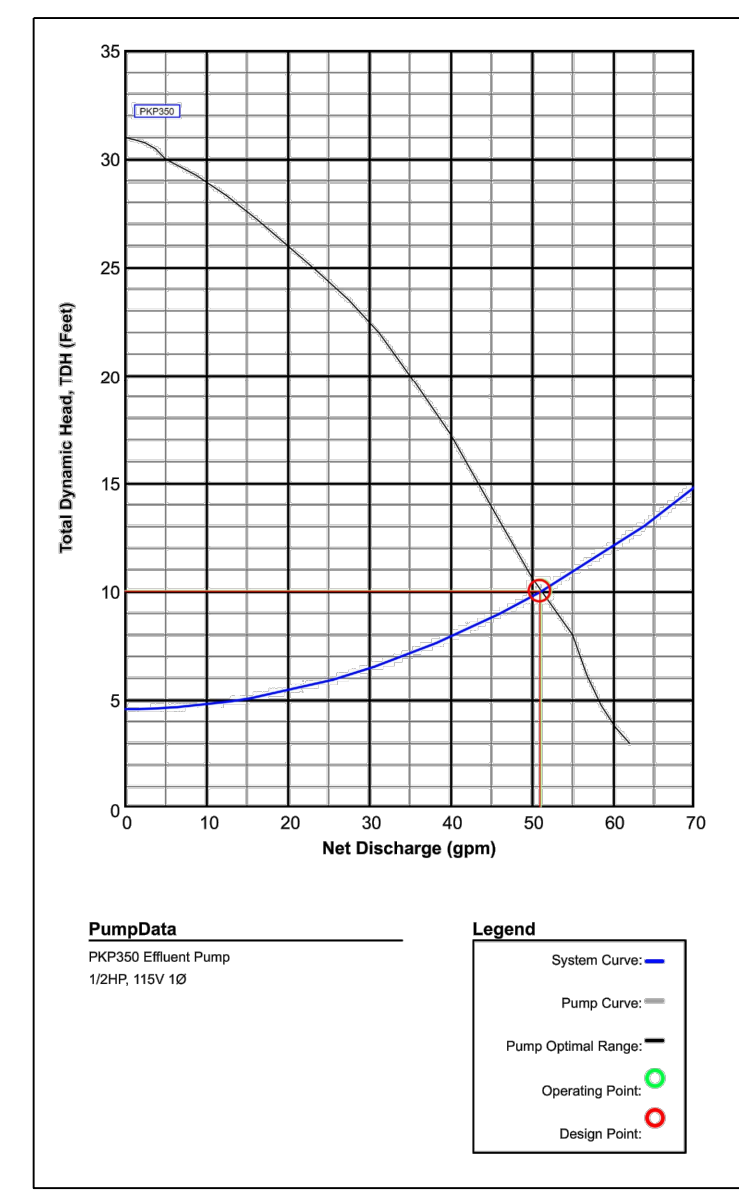
Pump Model: (Attach Pump Curve)
 51 GPM at 10 (G) (ft of head: from pump curve) Manufacturer/Model: ORENCO PKP350

Required Capacity in Gallons:
 Dosing Volume 110 G
 Storage Capacity (1 1/2 days) 2700 G
 Pump Displacement 4 G
 Volume from tank bottle to pump base 200 G
 Total tank capacity 3000 G

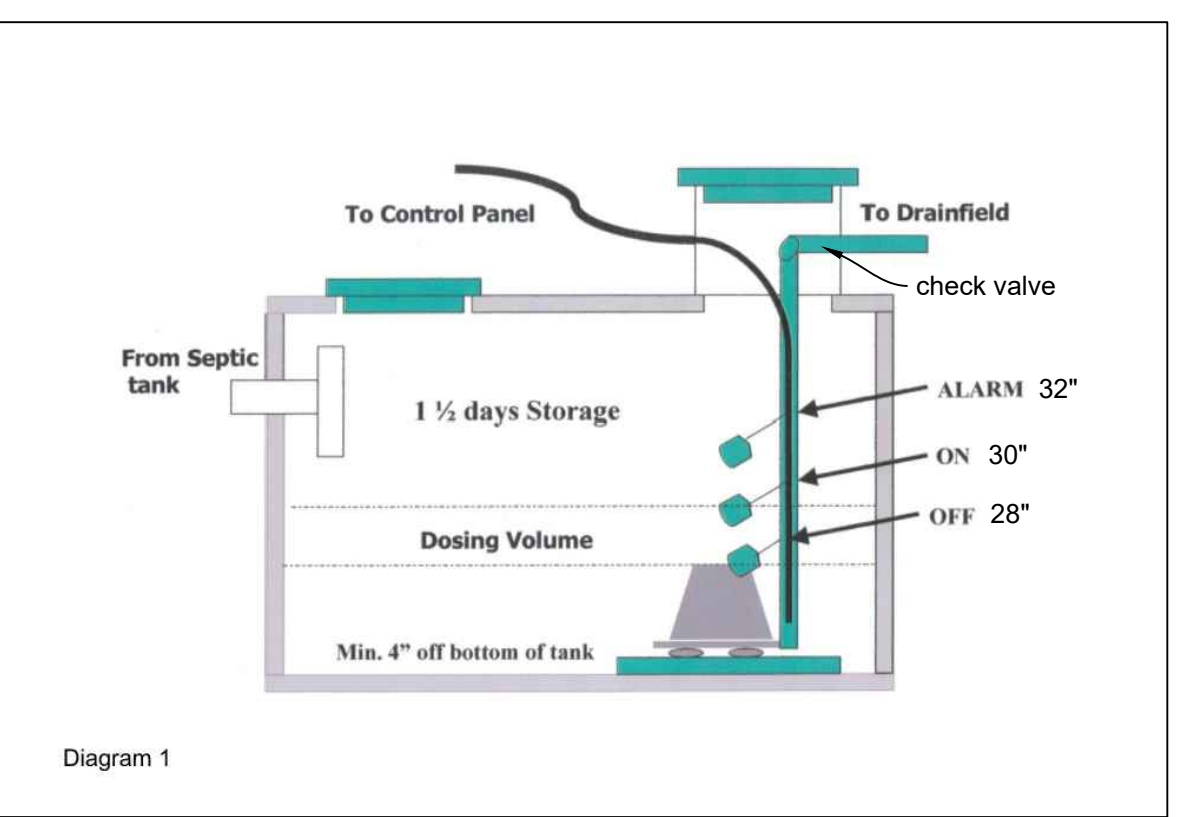
Pump Tank Information:
 Manufacturer: CHAPIN IPH3000 Size: 3000 G Gallons per inch: SEE VOLUME CHART

Updated 3/14

PUMP CURVE



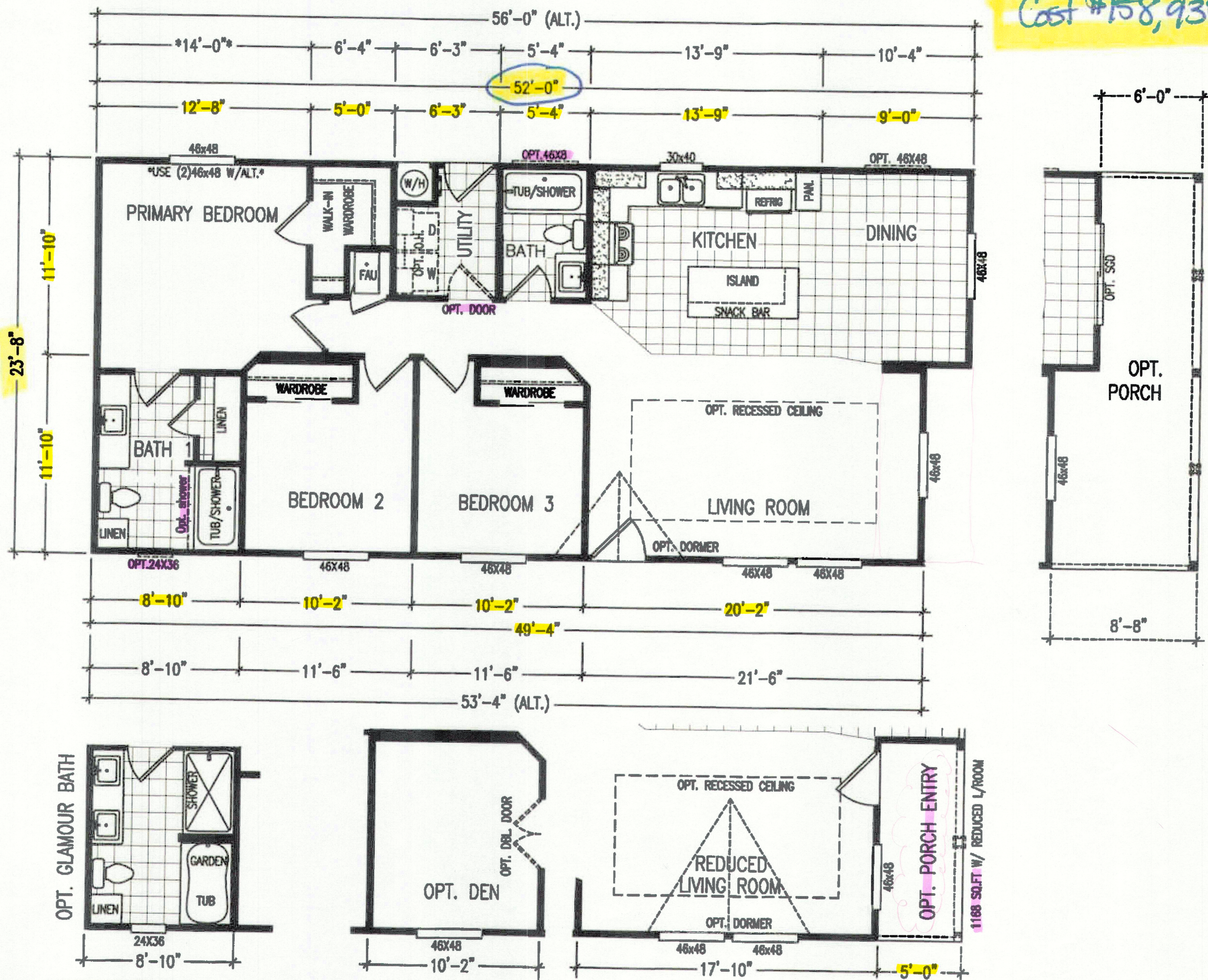
3000 GALLON PUMP TANK DIAGRAM



OWTS Details
0 Canada Road - APN 841-44-058

DATE: 1/28/2024
 SCALE: 1" = 20'
 DRAWN BY: DF
 CHECKED BY: DF
 JOB NO: 223011
 SHEET NO: 2 OF 2

Cost \$158,935.



Fairpoint 24523H

revised: 02-11-22

1199 / 1294 SQUARE FEET

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