

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33799
Exam Date: 05/16/2025

1. Current Owner:
DAREL TRACY AND/OR CARLA J TRACY 3800 N ROCK GARDEN LN BOISE ID 83714-9638
2. Accompanied by: Owner Darel Tracy
Phone No: **208-871-2740**
Address: same as mailing address
Relationship to permit Holder: self
3. **SOURCE:**
GROUND WATER
Method of Determination: Garmin GPS and GIS imagery.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
63-10871	Groundwater	Irrigation	License
VEOLIA RIGHTS	Groundwater	Municipal	License

Comments: The overlapping irrigation rights provide 3.4 acres of irrigation according to applicant's statement on the application for permit. The well source location for WR 63-10871 is a centroid point. It was previously diverted from the idle well (D0029368).

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
NONE	NA	NA	NA

Comments: No rights share the permitted point of diversion (POD)

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SE¼ NE¼, Sec. 5, Twp 04N, Rge 02E, B.M. ADA County
CPS COORDS: N43.71577° W116.23650° (D0074763-active well)
 GROUND WATER SW¼ NE¼, Sec. 5, Twp 04N, Rge 02E, B.M. ADA County
CPS COORDS: N43.71609° W116.23653° (D0029368- idle well)
 Method of Determination: Garmin GPS and GIS imagery.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	02E	5				X													

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	02E	5			1.0	7.8													8.8

Total Acres: 8.8

Method of Determination: GIS Imagery and Ada County tax parcel data.

3.
 - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 - ☒ Indicate weir size/pipe as applicable.
 - ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 - ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
 - ☒ Photo of Diversion and System Attached

Well or Diversion ID No.*	Motor Make	Hp	Motor Specs.	Pump Make	Pump Model No. and Discharge Size
D0074763	PENTEK	5.0	4" 3PH, 3 WIRE. 230v	BERKELEY	L50P4JGMS-05 (50GPM)
D0029368	NONE	NA	NA	NA	NA

Comments: TAG D0074763 is the same well (the only well on site) used for WR 63-10871. The other well is only used to connect the system to the irrigation / domestic well. It is the previous well for WR 63-10871.

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE	NA	NA	NA	NA	NA	NA

2. Measurements:

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: The system components and pump specifications were provided by the permit holder.

Table 1. Pentair Berkeley 50 GPM Series

PUMP PERFORMANCE (Capacity in gallons per minute)																		
HP	PSI	PUMPING DEPTH IN FEET																
		20	40	60	80	100	125	150	175	200	250	300	350	400	450	500	550	600
1-1/2	0			64	56	43												
	20	62	52	37														
	30	50	34															
	40	48	30															
	50	25																
	60																	
2	0			65	59	50	37											
	20		64	57	50	39												
	30	63	56	49	38													
	40	55	47	35														
	50	45	33															
	60	30																
3	0				67	63	57	51	43									
	20			66	62	58	52	45	34									
	30		66	62	57	53	45	35										
	40	65	61	57	52	46	38											
	50	61	56	51	45	37												
	60	55	50	44	35													
5	0						69	66	63	55	45	28						
	20						86	83	79	66	46	25						
	30					67	83	80	76	52	40							
	40				66	64	60	56	52	47	31							
	50			66	63	61	57	52	47	41								
	60		66	63	60	57	53	48	42	33								

Table 1- The set depth provided by the permit holder is 189ft and 36psi was observed at the pump house while irrigating the southern fields, which corresponds with approximately 50 GPM (0.11cfs).

$$Q = (5.0 \text{ Hp})(8.8)(.90 \text{ eff}) / (189 \text{ set depth} + 8 \text{ ft to pump house} = 197 \text{ ft total lift}) + (2.31)(36 \text{ pressure psi}) = 0.14 \text{ cfs}$$

Pressure at VFD = 36 psi

Pump Set Depth= 189 ft

Pump Spec. rate > 50 GPM

Pump Curve w/ lift to Storage Tanks = 45 GPM (0.10cfs)

Open Discharge Rate (pump test) = 64 GPM (0.14cfs)

Theoretical Rate= 0.14cfs

BU Limited Rate= 0.02cfs (permitted domestic rate)+ 0.11cfs standard irrigation rate for 5.6 acres = 0.13cfs

Recommended Rate = 0.13cfs

Comments/Recommendations: According to Administrative memo #22, a rate of 0.04cfs is acceptable for domestic use in 1 home, however, the permit was issued for a maximum rate of 0.02cfs for domestic use. At optimum conditions the initial instantaneous rate for the system installed is 0.11cfs. A theoretical calculation was made using the pump info (Hp, set depth, observed psi) and assuming a 90% efficiency a peak instantaneous rate of 0.14cfs is possible. As the rate is limited by a shared system, I recommend the license be issued with a rate of 0.02cfs for domestic use, 0.11cfs for the irrigation of 5.6 acres, and a combined total rate of 0.13cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 5.6 \text{ acres} \times 4.5 \text{ AF/acre} = 25.2 \text{ AF annually}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.11 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 56.7 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \mathbf{25.2 \text{ AF annually.}}$$

2. Volume Calculations for Other Uses:

Comments/Recommendation: I recommend the license is issued for an annual volume of 25.2 AF for the irrigation of 5.6 acres, per the standard field headgate calculation above, an annual volume of 0.6 AF for domestic use in 1 home, and a combined annual volume of 25.8 AF.

G. NARRATIVE/REMARKS/COMMENTS

The Department received the Proof of Beneficial Use for permit 63-33799 on January 30, 2025, submitted and signed by the permit holder Darel Tracy. In section 3 of the proof the permit holder stated that beneficial use was developed for 1 domestic household and the irrigation of 8.8 acres. On May 16, 2025, a field examination was conducted with Darel Tracy as an escort. Permit 63-33799 is for irrigation and domestic use from groundwater with WR 63-10871 for the irrigation of 3.4 acres and a maximum rate of 0.02cfs for domestic use overlapping the permitted POU. The point of diversion for overlapping WR 63-10871 is a centroid location in IDWR records, however, the system diagram (figure 2) in the WR 63-10871 backfile identifies the old well head (D0029368). The sketch identifies the irrigated areas in the south and west halves of the parcel.

The wellhead POD is on the southern boundary of the property in the SENE of section 5. The original domestic well is located across the pasture to the north. However, the owner stated that the older well is no longer used due to excess sand and sediment, instead the 2" main line from the new well is tied into the original 1 ½" PVC main to the pump house at the old well head. The permit holder provided a pump test curve and specification for the components of the system during the field examination. The 5 Hp submersible pump set at a depth of approximately 189 ft is rated at 50 GPM, but the pump test ran at 64 GPM, open discharge and 42 GPM at 50psi with a drawdown to 152'. The system delivers water via a 2" PVC main to the old well where it is reduced to the 1 ½" main to the pump house (see Figure 1. System Diagram). During the field examination the permit holder opened valves for 2 zones with 9 total sprinkler heads and driplines for the garden and orchard areas simultaneously. The landscaper was on site and explained that the Rain Bird 6504 rotary heads operating in the pastures are each rated at 6 GPM (54 GPM total). While the permit holder ran the zones throughout the southern pastures and around the home the gravity fed system for the northeast hillslope had been opened to begin filling the 3 -3,000-gal storage tanks at the top of the hill to the northeast of the home. A float valve switch controls the flow from the pump house to the storage tanks via a 2" PVC pipe. A 3" PVC line with 2" turnouts distribute water from the storage tanks with isolation valves controlling water to the 8 ditches running along the contour of the hillside for flood irrigation. The irrigation specialist was on site to provide details for the flood irrigation system. The ditches are at approximately every 6 feet vertically, approximately every 25' downslope. A ninth ditch near the bottom of the hillslope disperses drainage to irrigate the lower areas. Concrete plugs at the terminal ends of each ditch are designed to allow the water to be diffused and sub irrigate areas further east. The lawn and landscaped beds surrounding the home area are irrigated by a 10-zone buried sprinkler system (5 zones in the front yard, 5 in the back) that is connected to the domestic service line near the home. A triangular area on the west side of the fenced in lawn around the home was being upgraded with a 1" poly line from the home sprinkler system to a control valve distributing water to Rain Bird 5000 sprinkler heads mounted on the fence line circling the small field. The permit holder only purchased the property a year ago but believed that the area was previously irrigated with a portable rotary gun mounted on top of a length of 6" casing protruding about 7ft out of the ground near the center of the west side of the enclosure. The area was covered in dense grasses seemingly due to prior irrigation.

The system can theoretically divert a rate of 0.025cfs/acre. The licensed rate should be limited by the beneficial use developed and the standard rate established by IC 42-202.3 (0.02cfs/acre). The system installed just prior to the end of last season converted several areas previously irrigated with sprinklers to dripline systems. The permit holder submitted an estimate of the water use including weekly volume estimates, which would only provide about 9.64 AF annually for the irrigation of 5.6 acres, significantly less than the standard which is likely more representative of the use during development prior to the ownership of the property changing a year ago. I recommend the license is issued with a maximum rate of 0.11cfs for the irrigation of 5.6 acres, and an annual volume of 25.2 AF for the irrigation of 5.6 acres when combined with overlapping WR63-10871, per the headgate calculation in section F of this report. I recommend the full permitted rate of 0.02cfs for domestic use with 0.6 AF annual volume for domestic use when combined with WR 63-10871, and a combined rate of 0.13cfs and 25.8 AF for all uses.

I recommend the license is issued with conditions R65, X35, 165, 01M, 103, and the water bearing zone legal remark. The well drillers report for the active well indicates that the casing was sealed with bentonite and cement to a depth of 200 ft, meeting the requirements of conditions 165 and the water bearing zone legal remark. Permit condition 121 should be replaced with license condition 103 at licensing. Conditions 046 and 26A should be removed at licensing, according to current guidance. Two X35 conditions should limit the irrigation and domestic uses when combined with WR63-10871, including a modified X35 condition to limit the annual volume for domestic use to 0.6 AF when combined with overlapping WR 63-10871.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.02 CFS	25.2 AF
IRRIGATION	03/01 to 11/15	0.11 CFS	0.6 AF

Totals: **0.13 CFS** **25.8 AF**

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Bob Howe - Water Resource Agent, Sr.

Field Examiner's Name _____ Date _____

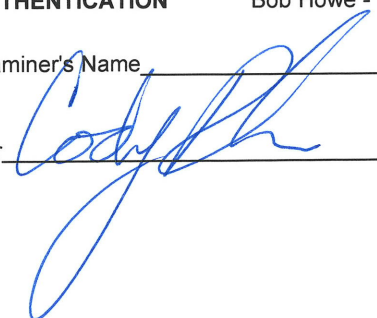
Reviewer  _____ Date 05-28-2026



Figure 1-1. SYSTEM DIAGRAM. Sprinkler Zones (Rain Bird 6405's) irrigate the pasture in the south extent and driplines are used for the orchard in the western extent, the garden, and the flower garden in the northern extent of the pastures. The home irrigation system distributes water in the areas surrounding the home via rotary sprinklers (Rain Bird 5000's) and driplines. Eight gravity fed ditches are filled via a 3" PVC line from 3-3,000gal tanks on the hilltop with a float control valve. The southernmost ditch collects and distributes the drainage to the lower elevations of the field.

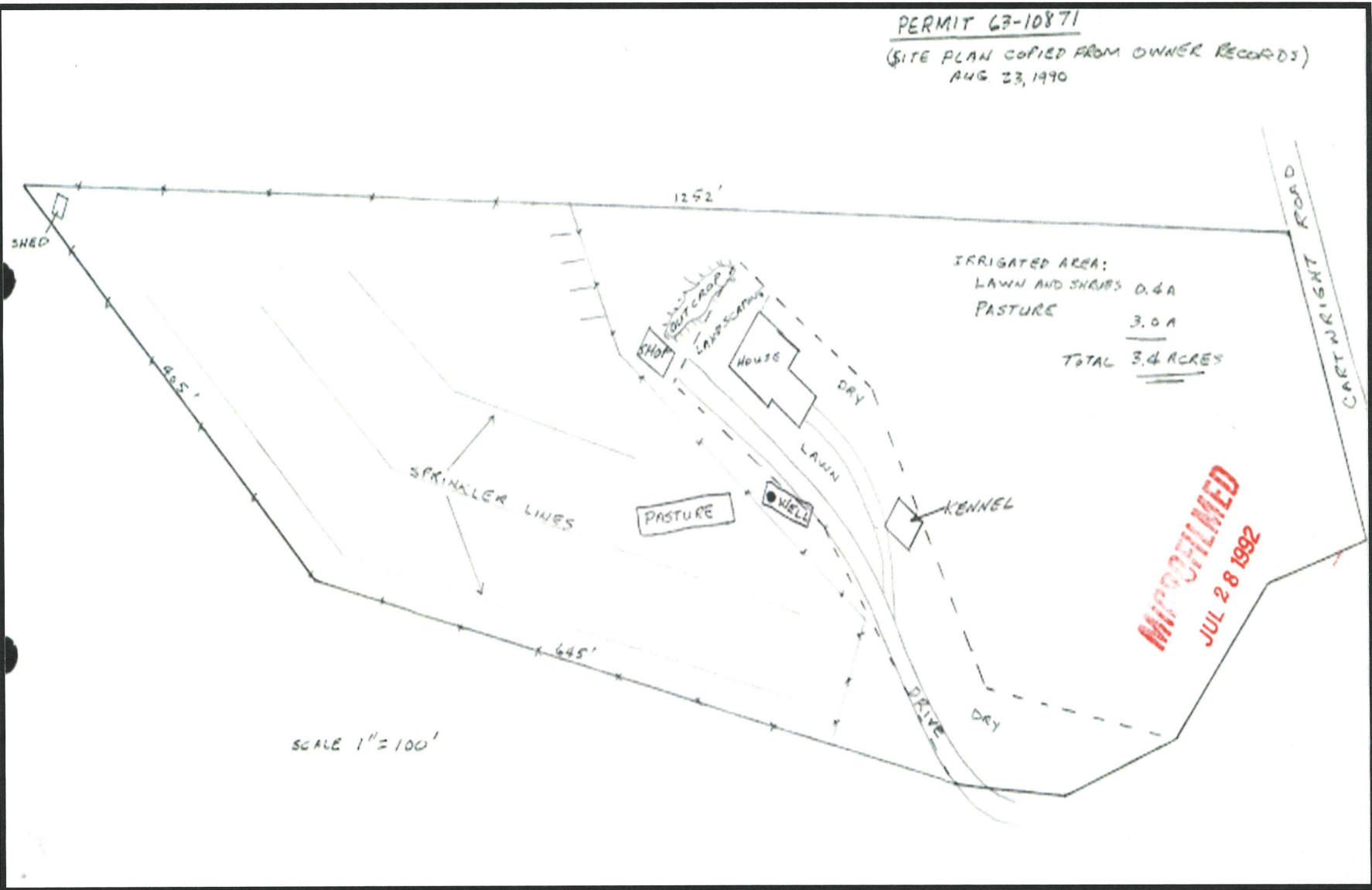


Figure 2-System Diagram for overlapping WR 63-10871. Sketch identifies the location of the old well as the POD irrigating the south and western extent of the parcel.



Photo 1- At the southern fence line facing north. The well POD in the foreground is south of the old well (circled in blue) where the new 2" PVC mainline connects to the old 1 1/2" PVC main to the "pump house" to the east of the home.



Photos 2 & 3- ID tag and GPS coordinates taken at the active well head (POD).



Photos 4 & 5- Standing north of the old well head (in left image) facing south with the new well head (in right image) in the background circled in blue.



Photos 6 & 7- The check valves and shut off valve on the 1 1/2" PVC main at the old well head (left image). The pasture irrigation timer on the fence post south of the old well head (right image).



Photos 8, 9, & 10- GPS Coordinates (left image), well ID tag (center image) at the old well head, and control valves for garden driplines (right image) located on the west side of the fence surrounding the old well head.



Photo 11- Facing south across the garden areas in the north end of the southern pasture.



Photo 12- Dripline system in garden area within the southern pasture.



Photo 13- The eastern and extent of the garden area with driplines in the fenced areas.



Photos 14 & 15- The control valves for the driplines in the orchard in the western extent of the south pasture areas.



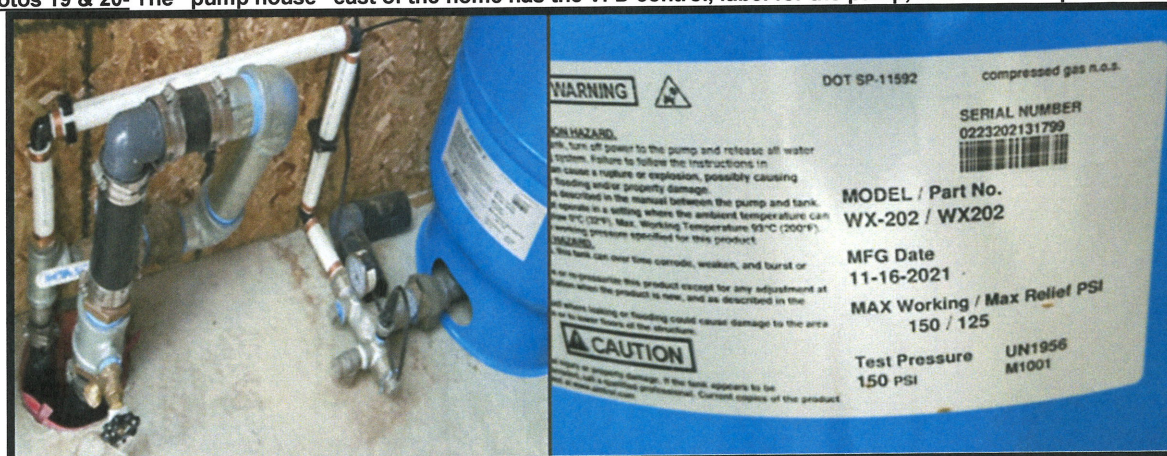
Photos 16 & 17- Driplines surrounding the saplings planted in 5 rows in the orchard.



Photo 18- At the east end of the orchard area facing west.



Photos 19 & 20- The "pump house" east of the home has the VFD control, label for the pump, and domestic pressure tank.



Photos 21 & 22- The 1 1/2" PVC main that continues up the hill to the storage tanks passes through a T coupling where it is reduced to the 1" domestic service line which comes up through the floor of the pump house and into the 20gal pressure tank. The white handle in the image on the left is an isolation valve for the domestic service.



Photos 23, 24, & 25- The pump VFD controller while running the irrigation, domestic, and filling the storage tanks (left image). The domestic service was shut off to allow only water to be pumped up to the water tanks (center image) the upper limit on the controller was set at 70psi. The VFD spec. label (right image).



Photo 26- The irrigation timer for the domestic system (left image) located in the garage of the home was operating for the field examination.



Photo 27- Domestic irrigation system zone in the southeast corner of the lawn with 7 sprinkler heads (Rain Bird 5000),



Photo 28- Domestic irrigation system in the southwest corner of the lawn with 7 sprinkler heads (Rain Bird 5000).



Photo 29- Domestic irrigation system in the southwest corner of the lawn in 2nd zone with 7 sprinkler heads (Rain Bird 5000).



Photo 30- Common domestic irrigation system sprinkler head- Rain Bird 5000 (left image). Control valves in the northwest of the lawn for the western zones (right image).

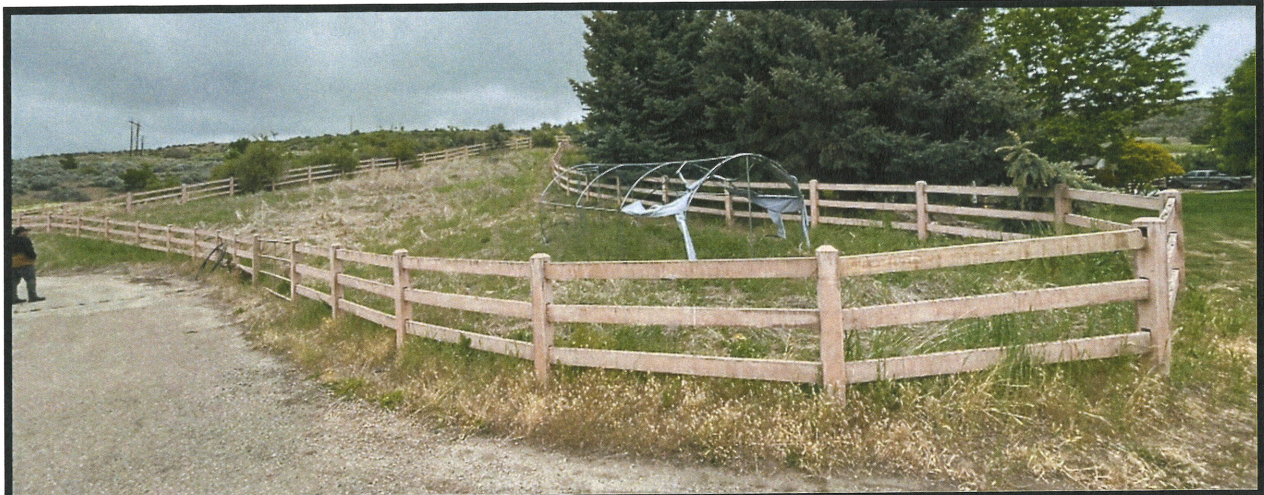


Photo 31- Triangular enclosure on the west side of the lawn enclosure. The permit holder was installing new sprinklers connected to the domestic irrigation system at the time of the field examination.



Photo 32- Triangular enclosure facing northeast. Some of the new Rain Bird 5000 sprinkler heads (circled in blue) are attached to the fence posts around the perimeter.



Photo 33- A vertical length of casing pipe midway along the western fence line (circled in blue) where a large rotary sprinkler was mounted to irrigate the triangular area. Several of the new Rain Bird 5000 sprinkler heads (circled in green) can be seen attached to the perimeter fence.



Photo 34- At the east end of the driveway facing west. The flower garden with driplines is installed in the fenced area on the left of the frame.



Photo 35- Driplines installed throughout the flower garden areas south of the driveway.



Photo 36- At the end of the driveway facing northeast. The hillside to the north of the driveway has 9 irrigation ditches running laterally intersecting the hillslope at 6ft elevation intervals. The storage tanks are at the hilltop on the left of the image.



Photo 37- On West Rock Garden Ln facing west. The irrigation ditches can be seen running laterally on the hillslope.



Photo 38- At the northeast corner of the POU facing southwest. The home is in the background and the 3- 3,000gal storage tanks at the hilltop are in the right of the image.



Photo 39- The storage tanks- A 2" PVC fill line enters the top of the center tank. A 3" PVC drainpipe runs between the storage tanks and down the east end of the northwest POU servicing each ditch with a 2" PVC turnout.

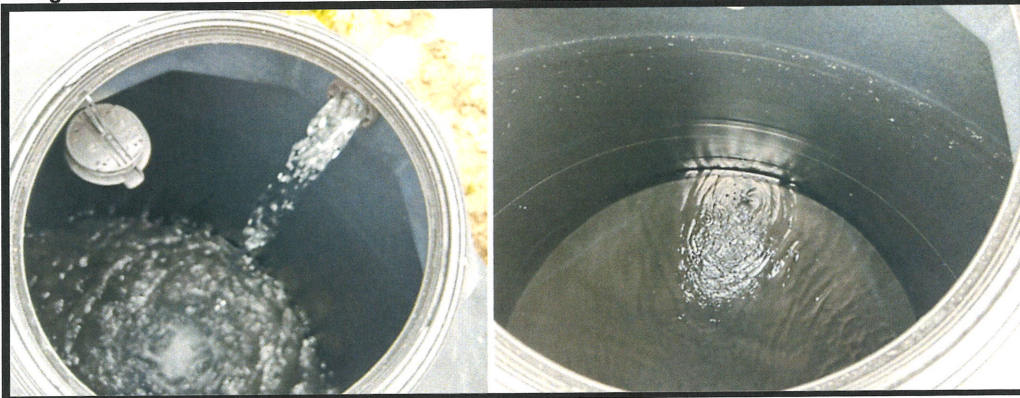


Photo 40 & 41- The center tank (left image) fills through a 2" PVC line. The tanks on either side (right image) are filled through the drain manifold connecting the bottom of all three tanks to the 3" PVC line servicing the 2" ditch turnouts.



Photo 42- Facing south down the hillslope. The 2" turnouts are open in the lower ditches.



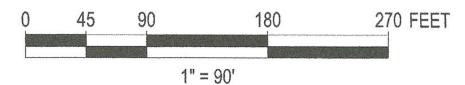
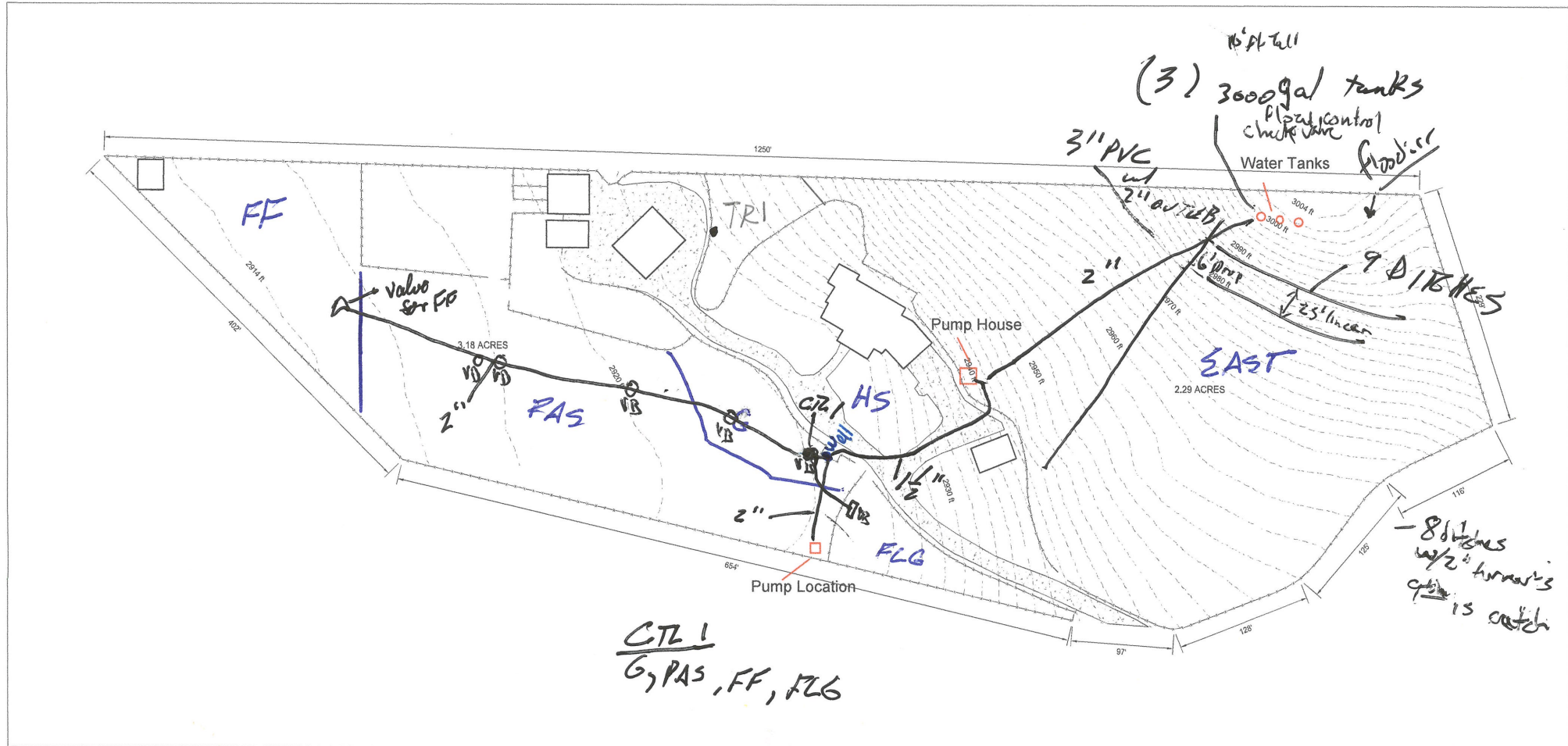
Photo 42- One of the 2" turnouts opened filling an irrigation ditch near the top of the hillside.



Photo 43, 44, & 45- Ditches intersecting the hillslope at 6' elevation intervals, approximately 25' downslope of each other.



3880 WEST ROCK GARDEN LN, GARDEN CITY, ID



RB
9- S204 + Dars
Casper

Tracy Property Estimated Water Use:

House – 500 gal/day

Peak Use Irrigation (Weekly):

FF (Fruit Forest) – 40 trees * 5 emitters/tree * 0.9 gph * 4 hrs/wk = 720 gal

PAS (Pasture) – 5 sprinklers * 6 gpm * 5 stations * 40 min/sta * 4 times/wk = 24,000 gal

G (Garden) – 750 emitters * 0.9 gph * 5 hrs/wk = 3,375 gal

TRI (Triangle Area) - 4 sprinklers * 3 gpm * 1 stations * 40 min/sta * 4 times/wk = 1,920 gal

HS (House Water) – 6 stations * 5 sprinklers * 3 gpm * 45 min/sta * 5 times/wk + 150
emitters * 0.9 gph * 4hrs/wk = 20,790 gal

FLG (Flower Garden) – 400 emitters * 0.9 gph * 5 hrs/wk = 1,800 gal

East (East Pasture) – 8 ditches * 4,000 gal/ditch/week = 32,000 gal

Estimated Weekly use – 85,105 gal

COONSE WELL DRILLING & PUMP CO.,

P O Box 366
Middleton, ID 83644

Phone # (208) 454-0190

INVOICE

BILL TO:

STEVE RAYMOND
3800 W, ROCK GARDEN LN.
BOISE, ID 83714

DATE

INVOICE #

5/10/2024

210922

PROJECT		TERMS	DUE DATE
3800 W. ROCK GARDEN LN.		Due on receipt	5/10/2024
QTY	DESCRIPTION	UNIT PRICE	AMOUNT
1	WELL INSPECTION (INCLUDES FLOW TEST & EQUIPMENT INSPECTION. WELL TAG D0074763 8" WELL CASING WELL DEPTH FROM TOP OF CASING-215' STATIC WATER LEVEL FROM TOP OF CASING-145' PUMPING EQUIP: 5 HP 50 GPM BERKELEY PUMP L50P4JGMS-05 5 HP 4-IN PENTEK 3PH MOTOR, 3-WIRE, 230 VOLT PENTEK PID50 CONSTANT PRESSURE CONTROLLER 20 GAL PRESSURE TANK PUMP SET AT APPROX:189' MOTOR AMPS:YEL-11.8, BLK-11.9, RED-11.6 PUMP DEAD HEAD AT 80 PSI @ OPEN DISCHARGE, PUMP PRODUCES 64 GPM @ 50 PSI, PUMP PRODUCES 42 GPM, DRAWDOWN TO 152' NO SEDIMENT PRESENT AT TIME OF TEST.	350.00	350.00
		0.00%	0.00

THANK YOU FOR YOUR BUSINESS!
PLEASE PAY BY THIS INVOICE.

Make all checks payable to: Coonse Well Drilling & Pump Co., Inc.
All past due accounts are subject to service charge of 1 1/2% per month or
maximum permitted by law.
NOTE: THERE IS A 3.5% PROCESSING FEE ON CREDIT CARD PAYMENTS.

Total \$350.00

Payments Applied \$0.00

Balance Due \$350.00

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office@coonsedrillingpump.com

50 GPM Series

Stainless Steel 4" Hi-Flo Submersible Pumps



APPLICATIONS

Water Systems...for residential, industrial, commercial, multiple housing, and farm use.

SPECIFICATIONS

Discharge: 300 grade stainless steel with 2" NPT Threads

Top Bearing: Nylatron®

Top Bearing Journal: 300 grade stainless steel

Diffuser Assembly: Noryl® (20% glass filled)

Impellers: Noryl (20% glass filled)

Bowls: Noryl (20% glass filled)

Diffuser Bearing: Nylatron

Diffuser Bearing Journal: 300 grade stainless steel

Shaft: 300 grade stainless steel, 7/16" hex stock

Coupling: 300 grade stainless steel

Shell: 300 grade stainless steel

Motor Adapter: 300 grade stainless steel

Suction Screen: 300 grade stainless steel

Cable Guard: 300 grade stainless steel

Fastener: 300 grade stainless steel

FEATURES

Discharge: Heavy-duty 300 grade stainless steel construction provides smooth water passage to column pipe. Large wrench flats and rope hole.

Top Bearing: Self-lubricated top bearing ensures long bearing life.

Impellers: 20% glass-reinforced Noryl to resist abrasives and provide smooth water passage for minimal friction loss.

Diffuser Bearing: Bearings at each stage provide radial protection and stability, and excellent resistance to sand damage.

Motor Bracket: 300 grade precision cast stainless steel. Incorporates an efficient hydraulic design for maximum volume and access to motor mounting nuts.

Shaft: 300 grade "treated" stainless steel pump shaft is corrosion-resistant. The hex shape offers generous impeller drive surfaces.

Motor Coupling: Pressed-on, sintered 300 grade stainless steel for maximum corrosion resistance provides trouble-free transfer of power between motor and pump shaft.

Shell: Heavy-gauge, 300 series stainless steel pump shell is durable and offers high corrosion resistance.

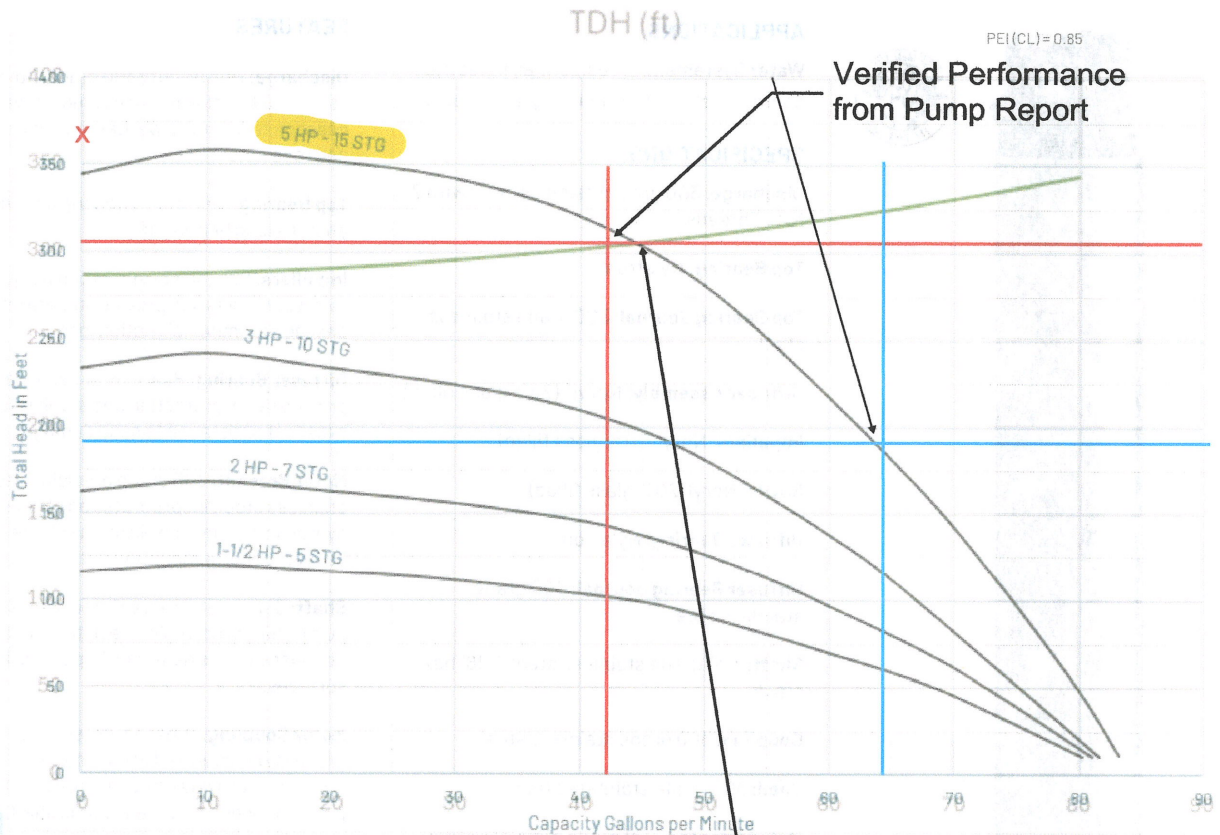
Intake Screen: 300 series stainless steel material offers maximum corrosion resistance and protects against damaging solids entering the pump.

The 50 GPM Stainless Steel 4" High-Flo Submersible Pumps deliver efficient and dependable performance even in rough, aggressive water. New stack design delivers better efficiency and head per stage than previous model.

50 GPM Series

Stainless Steel 4" Hi-Flo Submersible Pumps

PUMP PERFORMANCE



Tested and rated in accordance with Water Systems Council Standards.

Pumps installed with a Pro-Source[®] tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure. Check valve sold separately.

Operation Point @
~305ft and flow of
~45gpm.

50 GPM Series

Stainless Steel 4" Hi-Flo Submersible Pumps

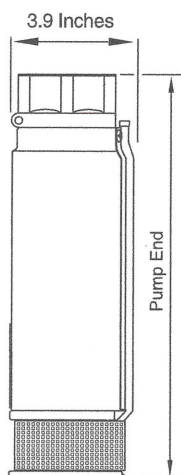
PUMP PERFORMANCE (Capacity in gallons per minute)																			
HP	PSI	PUMPING DEPTH IN FEET																SHUT-OFF HEAD	
		20	40	60	80	100	125	150	175	200	250	300	350	450	550	650	700	FEET	PSI
1-1/2	0	-	-	64	56	43												116	50
	20	62	52	37															
	30	50	34																
	40	48	30																
	50	25																	
	60																		
2	0	-	-	65	59	50	37											164	71
	20	-	64	57	50	39													
	30	63	56	49	38														
	40	55	47	35															
	50	45	33																
	60	30																	
3	0	-	-	-	-	67	63	57	51	43								235	101
	20	-	-	66	62	58	52	45	34										
	30	-	66	62	57	53	45	35											
	40	65	61	57	52	46	36												
	50	61	56	51	45	37													
	60	55	50	44	35														
5	0	-	-	-	-	-	-	69	66	63	55	45	26					346	150
	20	-	-	-	-	-	66	63	59	56	46	29							
	30	-	-	-	-	67	63	60	56	52	40								
	40	-	-	-	66	64	60	56	52	47	31								
	50	-	-	66	63	61	57	52	47	41									
	60	-	66	63	60	57	53	48	42	33									

CAUTION: DO NOT use pump at flow rates indicated by the symbol '-'. To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

ORDERING INFORMATION

MOTOR TYPE	HP	STGS.	PH	VOLT	PUMP END			MOTOR		CONTROL BOX	
					CATALOG NUMBER	LENGTH INCHES*	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*	CATALOG NUMBER	WEIGHT POUNDS*
2 WIRE	1.5	5	1	230	L50P4FMGS-05	18-3/4	11	P42B0015A2	29		
			1	230	L50P4FMGS-05	18-3/4	11	P43B0015A2	27	SMC-CR1521	7
			3	230	L50P4FMGS-05	18-3/4	11	P43B0015A3	23		
3 WIRE			3	460	L50P4FMGS-05	18-3/4	11	P43B0015A4	23		
			1	230	L50P4GMGS-05	24-1/8	16	P43B0020A2	31	SMC-CR2021	7
			3	230	L50P4GMGS-05	24-1/8	16	P43B0020A3	27		
			3	460	L50P4GMGS-05	24-1/8	16	P43B0020A4	27		
			1	230	L50P4HMGS-05	32	19	P43B0030A2	40	SMC-CR3021	7
			3	230	L50P4HMGS-05	32	19	P43B0030A3	32		
			3	460	L50P4HMGS-05	32	19	P43B0030A4	32		
			3	230	L50P4JMGS-05	45-3/8	24	P43B0050A2	70	SMC-CR5021	8
			3	460	L50P4JMGS-05	45-3/8	24	P43B0050A3	55		
			3	460	L50P4JMGS-05	45-3/8	24	P43B0050A4	55		
			3	230	L50P4JMGS-05	45-3/8	24	P43B0050A2	70	SMC-CR5021	8
			3	460	L50P4JMGS-05	45-3/8	24	P43B0050A3	55		

*Length and Weight are approximate. NOTE: Pump end and motor purchased separately. Check valve sold separately.

OUTLINE DIMENSIONS


Dimensions (in inches) are for estimating purposes only.

For lengths, refer to Ordering Information table.



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Delavan, WI 53115
USA
Ph: 888.782.7483
Orders Fax: 800.426.9446

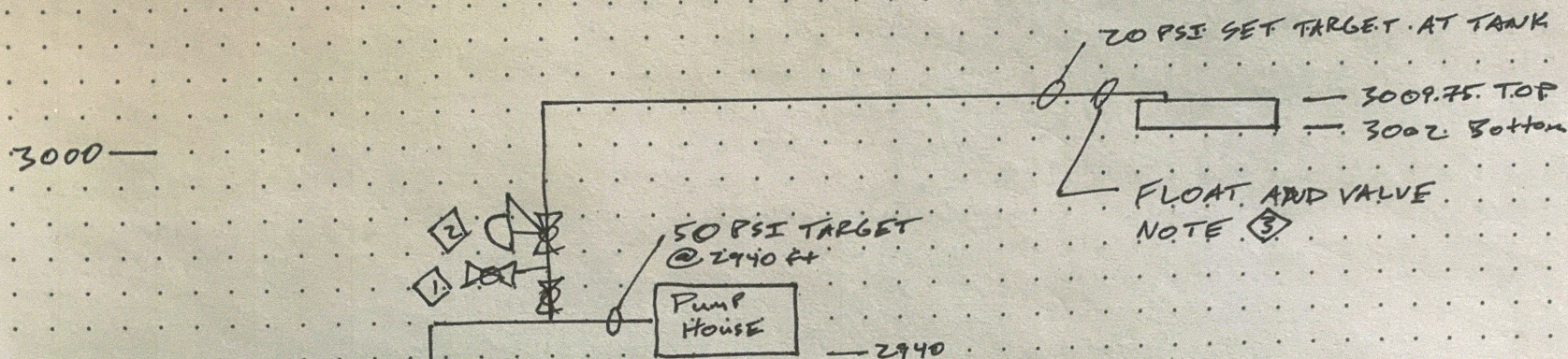
490 Pinebush Road
Unit 4
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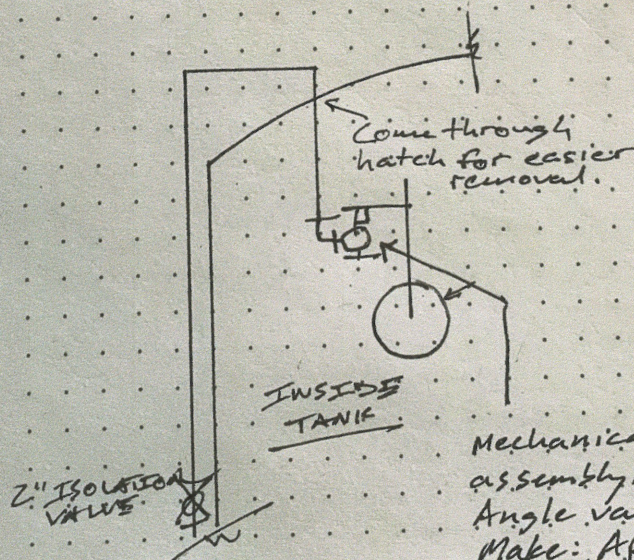
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③ ASSEMBLY INTO EACH TANK (OR FIRST TANK AND LINK OTHER TANKS)

① 2 inch PVC isolation valves. Route to drain for seasonal draining of the irrigation line. TRUE UNION valves

② Pressure reducing valve. Recommended location @ pump house for protection from elements. If at pump house, set to 50 psi (or whatever house target is). Zurn Wilkins 600XL or similar.



Mechanical float valve assembly. 2" valve size. Angle valve body. Make: Approved Vendor Model: ACF200 (Or similar system)

3000 —

2900 —

2800 —

2700 —

WEIR TOP
2922

STAIRC.
2777

DRAWN
2770

PUMP
2733

2707 —