

[illegible]

Method of Determination: Garmin GPS map 76 S, and ArcMap 2009 and 2011.

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

4.

<u>Well or Diversion</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
A0016942	Tsurumi Pump	5.5	Honda A33876		1 ½ inch

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. Measurements:

Physical measurement from frost-free hydrant:

(5 gal X 60 sec)/4 sec = 75 gpm X 0.00223 = 0.17 cfs

Pipe Conversion: $Q = 5 \times 3.1416 \times [(radius/12)/2]^2$

1 ¼ inch = 0.04 cfs

1 ½ inch fire hose = 0.06 cfs

3 inch irrigation main = 0.25 cfs (used for additional storage)

2 inch domestic main = 0.11 cfs (used for additional storage)

Theoretical:

$(8.8 \times 5.5 \text{ Hp} \times 0.70 \text{ eff})/[10' \text{ lift} + (80 \text{ psi} \times 2.31)] = 0.17 \text{ cfs}$

Capacity of System = 0.17 cfs

Domestic internal use only for Lots 6, 7, and 8 (D/3 homes) Maximum Instantaneous Water Requirement for Domestic Internal Use = 0.08 cfs

Irrigation:

2 acres (Lots 6, 7, 8, and 9, and the lower landing strip) X 0.03 cfs/acre = 0.06 cfs

RECOMMEND:

Domestic (3-homes, internal use only): 0.08 cfs

Irrigation: 0.06 cfs

Total Diversion Rate: 0.14 cfs

E. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3 = 6.0 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 1.9835 \times 230 = 27.4 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 6.0 \text{ af}$$

2. Volume Calculations for Other Uses: Domestic 3-homes (internal use only) = $0.6 \times 3 = 1.8 \text{ af}$

RECOMMEND:

Irrigation 6.0 af + Domestic 1.8 af = 7.8 af Total Annual Volume

F. NARRATIVE/REMARKS/COMMENTS

The screened intake/POD from the South Fork of the Salmon River is shared by 77-14272 Howard, and 77-14327. There is a 5.5 Hp Tsurumi Honda Pump A33876, a 1 1/2 inch discharge which splits and reduces to 2 individual lines: a 1 1/2 inch fire hose (for irrigation for water right 77-14327), and a buried 1 1/4 inch poly line (shared by both 77-14272 and 77-14327). The 1 1/4 inch poly line runs down the front of Lots 6 - 9, then is stubbed into Lots 6 - 9 with 3/4 inch poly pipe. There is a buried 1 1/4 inch poly line that is located near the lot 8 and lot 9 property line, on Lot 9. The 1 1/4 inch line goes to a frost free hydrant, which is used for irrigation and fire protection on water right 77-14327. A 3/4 inch poly line is stubbed into the house on Lot 9, and also onto Lots 6 - 8. Water right 77-14272 covers the domestic internal use for lot 9, and the irrigation of lawn, garden and surrounding areas are covered under the irrigation component on water right 77-14327. Mr Howard intends on selling either lot 9 or lot 10, and he wanted to make sure there was adequate water for each lot. From the 1 1/2 inch collapsible fire hose, it discharges into a 3 inch PVC irrigation/fire main, with a riser located between lots 10 and 11 (for fire protection emergencies only), between lots 8 and 9 (fire and irrigation), and between 6 and 7 (fire protection and irrigation). Additional hose can be attached at each of the riser with movable 1/2 inch rainbirds, capable of running 2 at one time at 80 psi. The rainbirds irrigate area on the individual lots and on the lower landing strip. Between Lot 6 and 7 is a buried 1 1/4 inch poly line that goes up the hillside, where the future water storage tanks will be located. The buried 2 inch PVC line that ties Association #1 and Association #2 together, has a shut off valve and is locked, except in the event of a fire protection emergency when additional flow is needed (see 1/11/2012 email from Brian Howard). They do not want Association #1 and #2 to be interconnected or for one to be the backup system for the other, but instead they want to remain separate systems. When the pump is not in use, it is locked in the shop.

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

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/15 to 10/31	0.060 CFS	6.00 AF
DOMESTIC	01/01 to 12/31	0.080 CFS	1.80 AF
<u>Totals:</u>		0.140 CFS	7.8 AF

2. Recommended Amendments

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

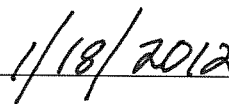
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

H. AUTHENTICATION

Field Examiner's Name



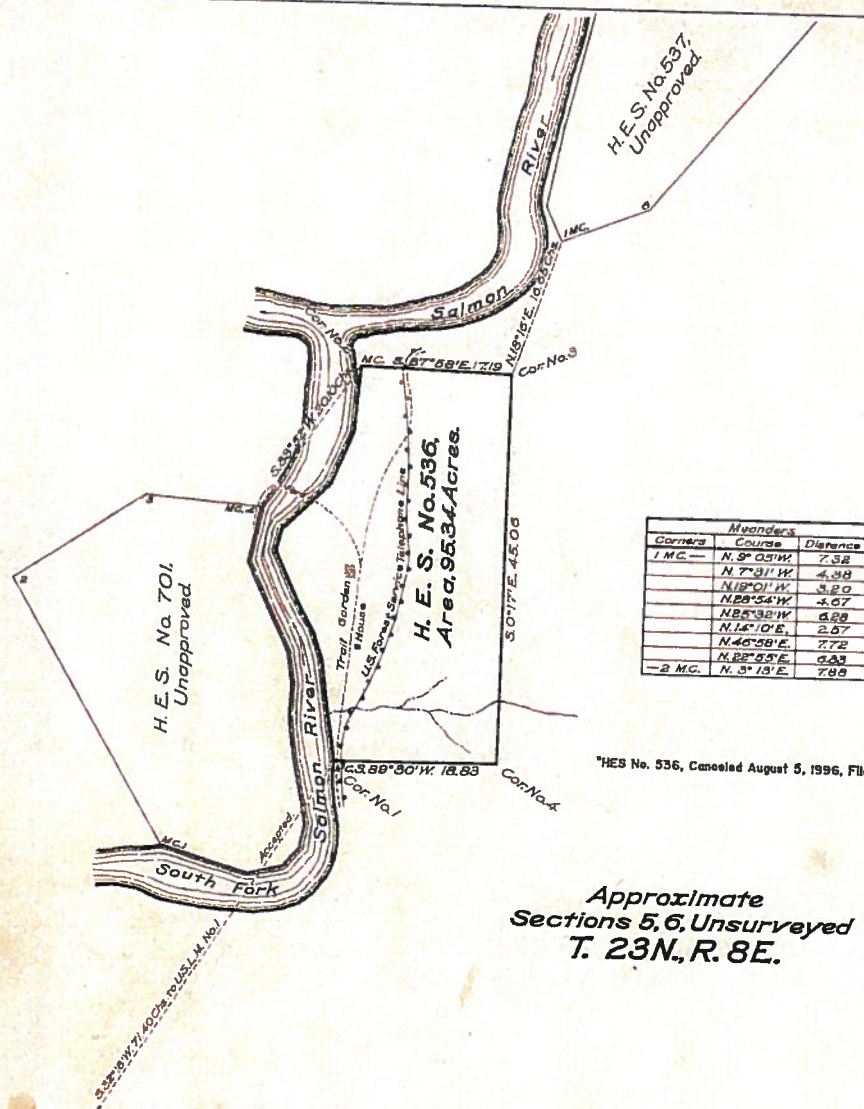
Date



ORIGINAL

Survey accepted May 2, 1921
General Land Office

Plat of
**HOMESTEAD
ENTRY SURVEY**
No. 536
in the
IDAHO
NATIONAL FOREST
in
Approximate
Sections 5, 6, Unsurveyed
T. 23 N., R. 8 E.
of the
BOISE BASE AND MERIDIAN.
IDAHO.



HES No. 536, Canceled August 5, 1996, File 9605, ID-957

Approximate
Sections 5, 6, Unsurveyed
T. 23 N., R. 8 E.

This plat of Homestead Entry Survey
No. 536 State of Idaho is
strictly conformable to the field notes
thereof on file in this office, which
have been examined and approved.

U.S. Surveyor General's Office
Boise, Idaho, April 13, 1921.

Edward Hadden
U.S. Surveyor General

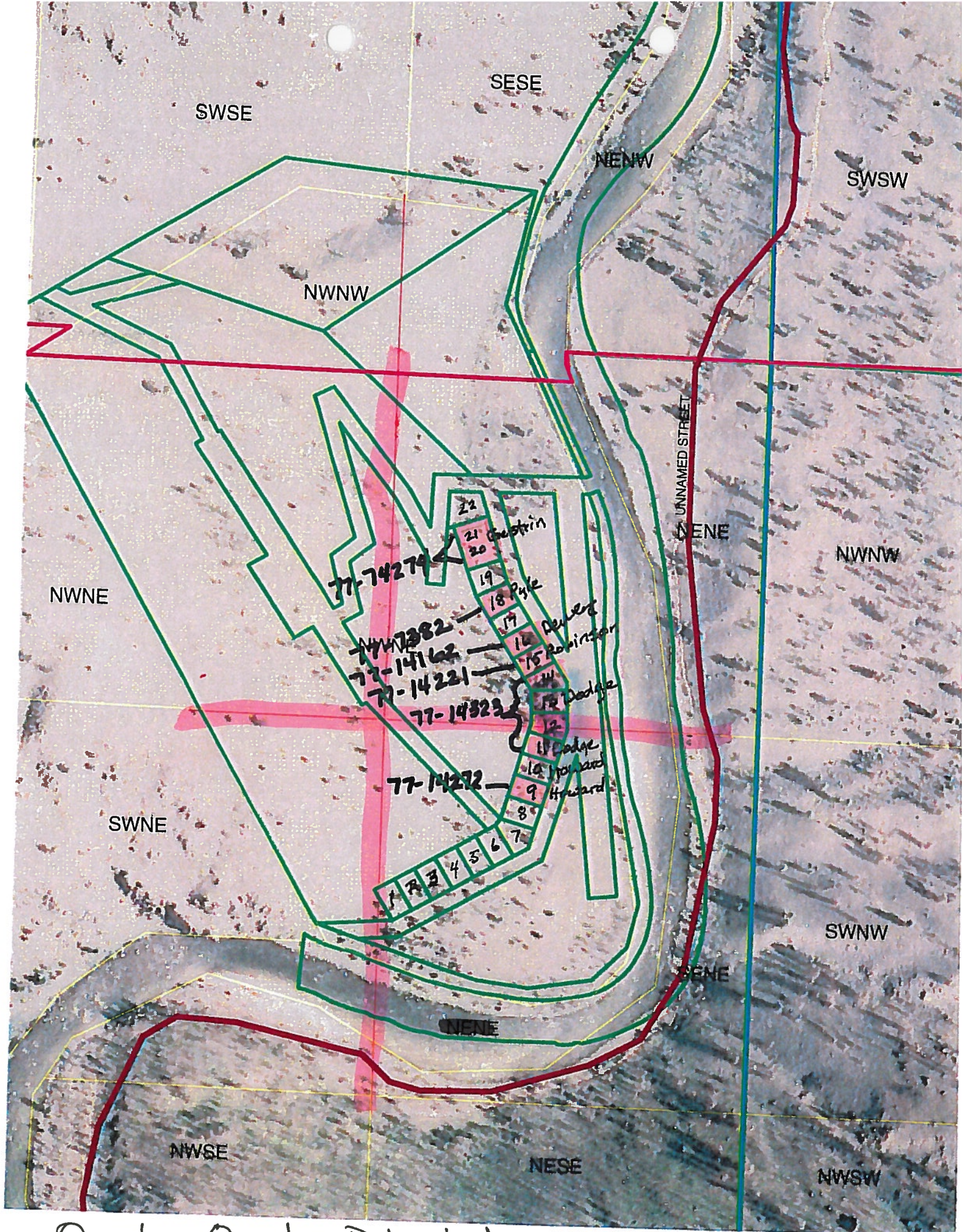
SCALE: 10 chains to 1 inch.

Survey Designated	By whom Surveyed	Inst. Cont. Group		When Surveyed		Date of Approval
		No.	Date	Began	Completed	
H. E. S. No. 701	Marshall S. Wright	701	January 15, 1919	September 22, 1920	September 24, 1920	
H. E. S. No. 537	Marshall S. Wright	537	February 28, 1919	September 28, 1920	September 29, 1920	April 7, 1921
H. E. S. No. 536	Marshall S. Wright	536	February 28, 1919	September 28, 1920	September 27, 1920	April 13, 1921
	Sur. U.S. Forest Service					

Areas in Acres	
H.E. Survey No. 536	Conflicts
In Section	
In Section	
In Section	
In Section	
Total	95.34

Act of June 11, 1906 Act of May 30, 1920

List No. 4-373 Dated May 11, 1910
List No. 4-1725 Dated May 1, 1915Latitude 45° 21' 45" N. Observations
Longitude 115° 30' 07" W. Near House
Near Mag. Decl. 20° 40' E.



SESE

SWSE

NENW

SWSW

NWNW

UNNAMED STREET

ENE

NWNW

NWNE

77-74279

77-7382

77-14162

77-14221

77-14323

77-14272

SWNE

- 22
- 21 Gustin
- 20
- 19
- 18 Pyle
- 17
- 16 Dewey
- 15 Robinson
- 14
- 13 Dodge
- 12
- 11 Dodge
- 10 Howard
- 9 Howard
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1

SWNW

ENE

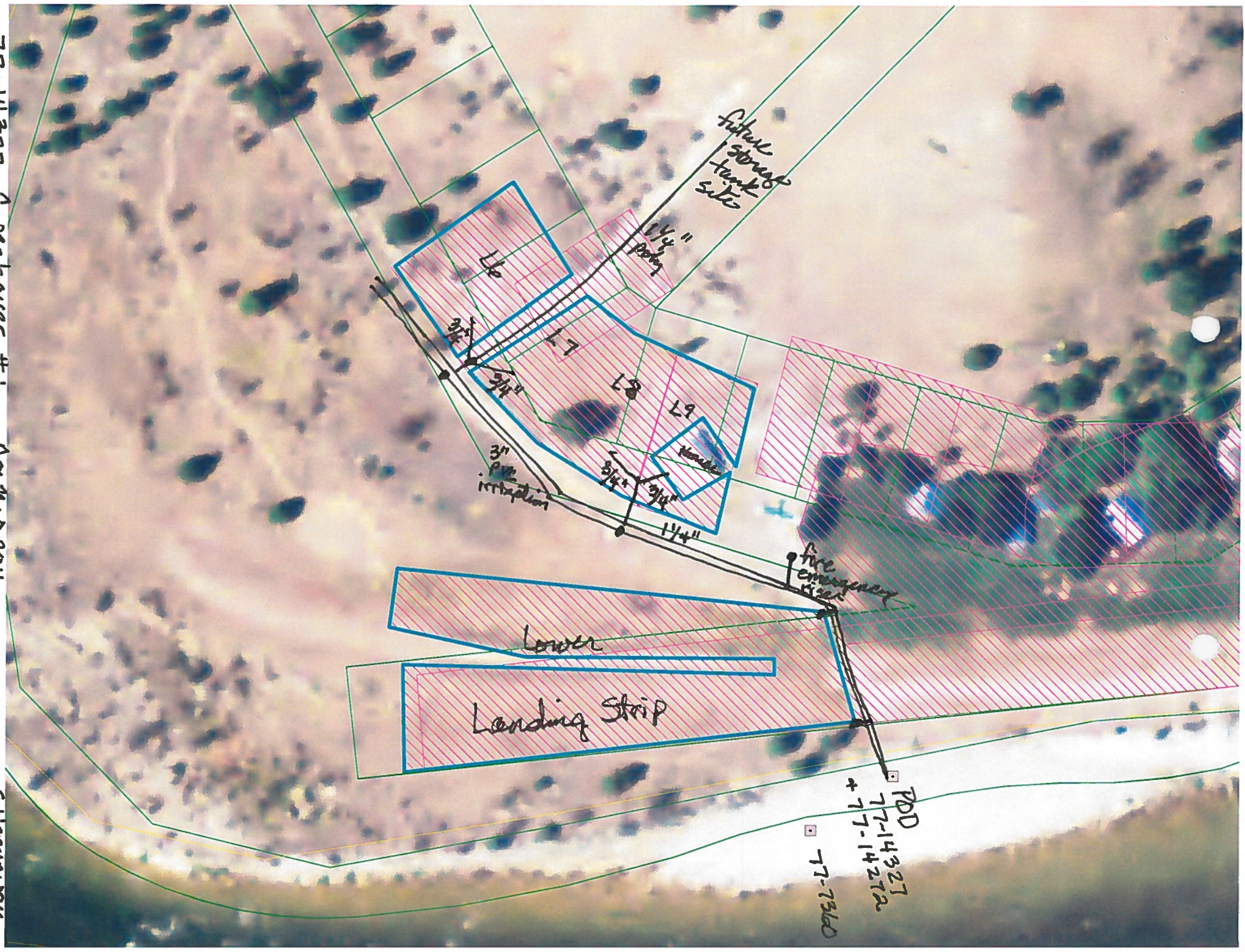
ENE

NWSE

NESE

NWSW

Quarter - Quarter Determination



future storage tank site

1 1/4" Poly

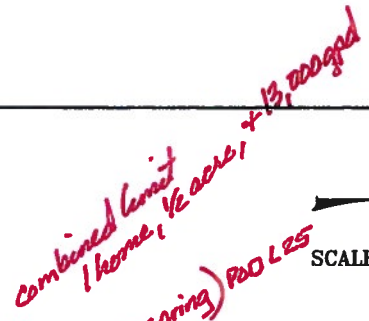
3" PVC irrigation

fire emergency riser

Lower Landing Strip

PDD
77-14327
77-14272
77-7360

SCALE: 1" = 100'



This line is only to interconnect the systems for fire suppression emergencies (see 11/12/2012 em

Hemenway, Sandy

From: Dr Howard [dental@fiberpipe.net]
Sent: Wednesday, January 11, 2012 3:21 PM
To: Hemenway, Sandy

Sandy

The Water User Association # I and Water User Association # II systems are isolated from each other by a 2" valve on the 2" domestic interconnect line and a 3" valve on the 3" irrigation interconnect line. The only purpose of the interconnect lines is for fire suppression and they will remain closed unless additional water is needed for an emergency. I hope this helps to clarify any questions about the interconnection between the two systems.

Brian

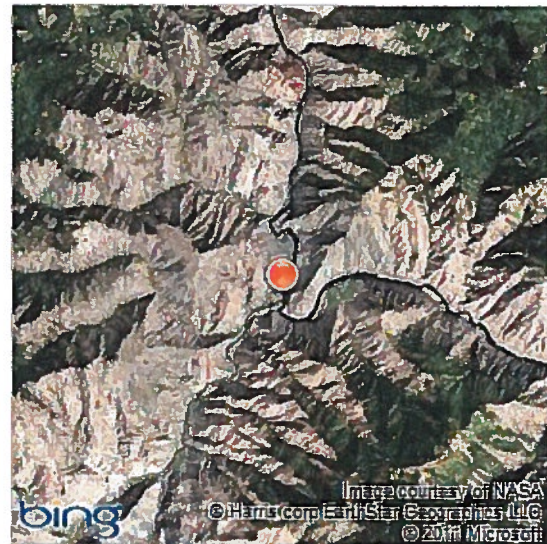
bing Maps

Riggins, ID

My Notes



On the go? Use **m.bing.com** to find maps, directions, businesses, and more



Bird's eye view maps can't be printed, so another map view has been substituted.



POD:

A0016942

5.5Hp

Tsurumi
Honda
A 33876
10' lift
1 1/2"
fire hose
+ 1 1/4"
buried
poly
(for
domestic
use)

screened
intake

77-14272 Howard + 77-14327 Copenhagen #1 (same POD) S. Hemenway

POU
16-8



POU:
Domestic
77-14272
+
77-14327
(internal
use only
1 1/4"
buried
poly,
reduces
to 3/4"
1 1/2"
firehose
for
77-14327
irrigation
to
2 (1/2")
rainbirds

09/30/2011



POU
domestic
surround
area is -
POU for
irrigation
(fire
protection)
77-14327

09/30/2011



77-14272 Howard + 77-14327 Copenhagen #1 S. Hemenway

Buried 1 1/4" poly pipe from POD to connections located near the property line between lot # 8 + lot # 9 (on lot # 9). Service connections are stubbed with 3/4" to Lots 6 - 9 for domestic use.



POU:
Irrigatio

(2)
2"
rainbird
@ 80 psi
run at
1 time,
+ are
moved
around



POU
irrigatio

buried
pipe
with
hook-up
for fire
hose +
movable
rainbird

77-14327 Copenhagen #1

S. Hemerway