

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 77-14272

Exam Date: 9/30/2011

1. Current Owner: BRIAN M HOWARD
2607 S SIENNA DR
NAMPA ID 83686
(208)467-4230
2. Accompanied by: Brian Howard
Phone No (208) 467-4230 or (208) 467-3399
Address: same as above
Relationship to Permit Holder: self
Email: dental@fiberpipe.net

3. SOURCE

SOUTH FORK SALMON RIVER

TRIBUTARY

SALMON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 77-7359 (Salmon River source, for lot 9 and 10, 1 home), 77-7366 (low producing spring source, for lot 9 and 10, 1 home), 77-14327 (lots 6, 7 and 8 domestic internal use, and irrigation use for lots 6, 7, 8, and 9, and the landing strip involved with Association #1). Mr. Howard's intent is to either sell L9 or L10, and will at that time file a transfer to ensure Lot 9 and Lot 10 are separated at that time.
2. Other water rights with the same point of diversion: 77-14327 Copenhaver Assoc. #1

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

SOUTH FORK SALMON RIVER NE1/4NE1/4 Sec. 6, Twp 23N, Rge 08E, B.M. IDAHO County

Method of Determination: Garmin GPS map 76S

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
23N	08E	6	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
						X													
						L 9													

Method of Determination: Garmin GPS map 76S, ArcMap 2009 and 2011, and Plat of Homestead Entry Survey No.536

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 ID No.*</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	5.5	Honda A33876		1 1/2"

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

D. FLOW MEASUREMENTS1. **Measurements:**

Since it was not possible to take an accurate physical measurement from the home faucet, a measurement was taken from the frost-free hydrant, since it is part of the domestic system:

5-gallon measurement: (5 gallon X 60 sec)/4 sec = 75 gpm X 0.00223 = 0.17 cfs (measured while nozzles were running for the irrigation system for 77-14327)

Pipe Capacity Conversion:

1 1/4 inch = $5 \times 3.1416 \times [(diameter/12)/2]^2 = 0.04$ cfs

2 inch = 0.11 cfs

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

Nozzle Conversion (U of I Fact Sheet) to obtain psi, and capacity of system:

$Q = 30 \times (1/2)^2 \times (80\text{psi})^{0.5} = 67.08203933$ X 2 nozzles run at 1 time = $134.16 \times 0.00224 = 0.30$ cfs (without the frost-free hydrant running from the domestic system).

Theoretical:

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

RECOMMEND (system capacity as 0.17 cfs):

Domestic 1 at 0.02 cfs (internal use only)

E. VOLUME CALCULATIONS**RECOMMEND:**

IDWR Standard for Domestic 1, internal use only = 0.6 af

F. NARRATIVE/REMARKS/COMMENTS

The screened intake/POD from the South Fork of the Salmon River is shared by 77-14272, and 77-14327 Copenhaver Water Users Assoc. No. 1. There is a 5.5 Hp Tsurumi Honda Pump A33876, a 1 1/2 inch discharge which splits into 2 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 discharges into a 2 inch distribution main (for additional storage) and 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 for domestic internal use. Water Right 77-14272 Domestic use is for internal use. Irrigation of lawn, garden and surrounding areas are covered under the Irrigation component on water right 77-14327. Due to not being able to fit a container under the faucet in the house on lot 9, a physical measurement was collected from the hydrant next to the house and from the rainbirds to establish what the system capacity is. To allow the domestic internal use under water right 77-14272, it was determined that domestic internal use for L9 would not be included on water right 77-14327 Copenhaver Assoc. #1 Domestic internal use.

The buried line between Copenhaver #1 & #2 remains closed unless additional flow is needed in the event of a fire emergency (see 1-11-2012 email from Dr. Howard). gtt.

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>
DOMESTIC	01/01 to 12/31	0.020 CFS	0.60 AF
	<u>Totals:</u>	0.020 CFS	0.60 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

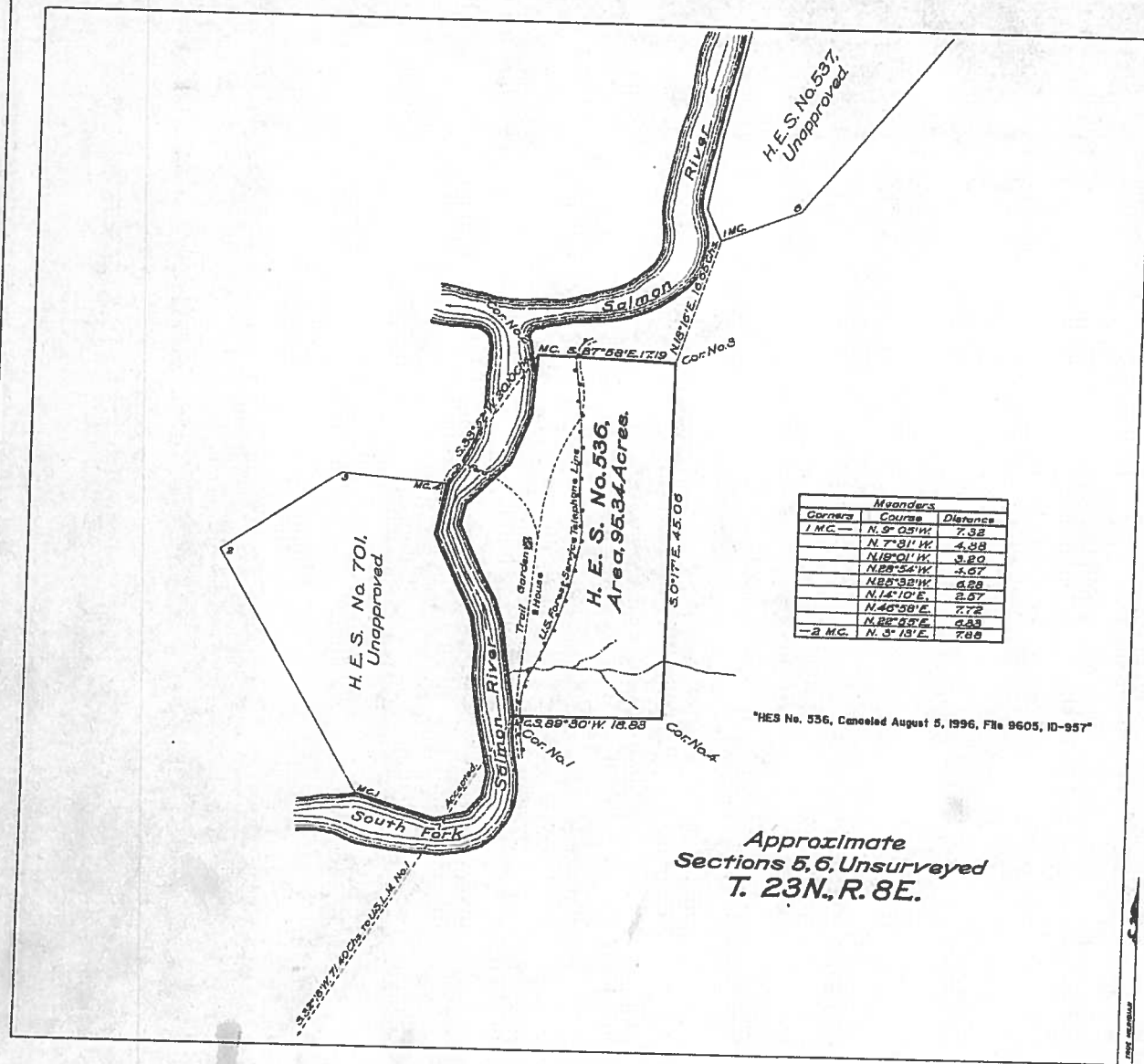
H. AUTHENTICATION

Field Examiner's Name

Sandy Hemenway Date 12/15/2011

77-14272 Howard

S. Hemmings



Meanders	Course	Distance
1 MC	N. 9° 05' 11" W.	7.32
	N. 7° 31' 11" W.	4.98
	N. 18° 01' 11" W.	3.20
	N. 28° 54' 11" W.	5.67
	N. 28° 32' 11" W.	6.28
	N. 14° 10' 11" E.	2.57
	N. 45° 58' 11" E.	7.72
	N. 22° 55' 11" E.	6.23
2 MC	N. 5° 13' 11" E.	7.88

"HES No. 536, Canceled August 5, 1996, File 9605, 10-957"

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

SCALE: 10 chains to 1 inch

Survey Designated	By whom Surveyed	Inst. Cont. Group	When Surveyed	Date of Approval
No.	Date	Begin	Completed	
H. E. S. No. 701	Marshall S. Wright	701	January 15, 1919	September 24, 1920
H. E. S. No. 537	Marshall S. Wright	537	February 28, 1919	September 24, 1920
H. E. S. No. 536	Marshall S. Wright	536	February 28, 1919	September 24, 1920
	Sur: U.S. Forest Service			

H.E. Survey No. 536	Areas in Acres	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. 4-1735	Dated May 1, 1915
Latitude 45° 21' 45" N.	Observations
Longitude 115° 30' 07" W.	Near House
Magn. Decl. 20° 40' E.	

ORIGINAL
Survey accepted May 2, 1921
General Land Office

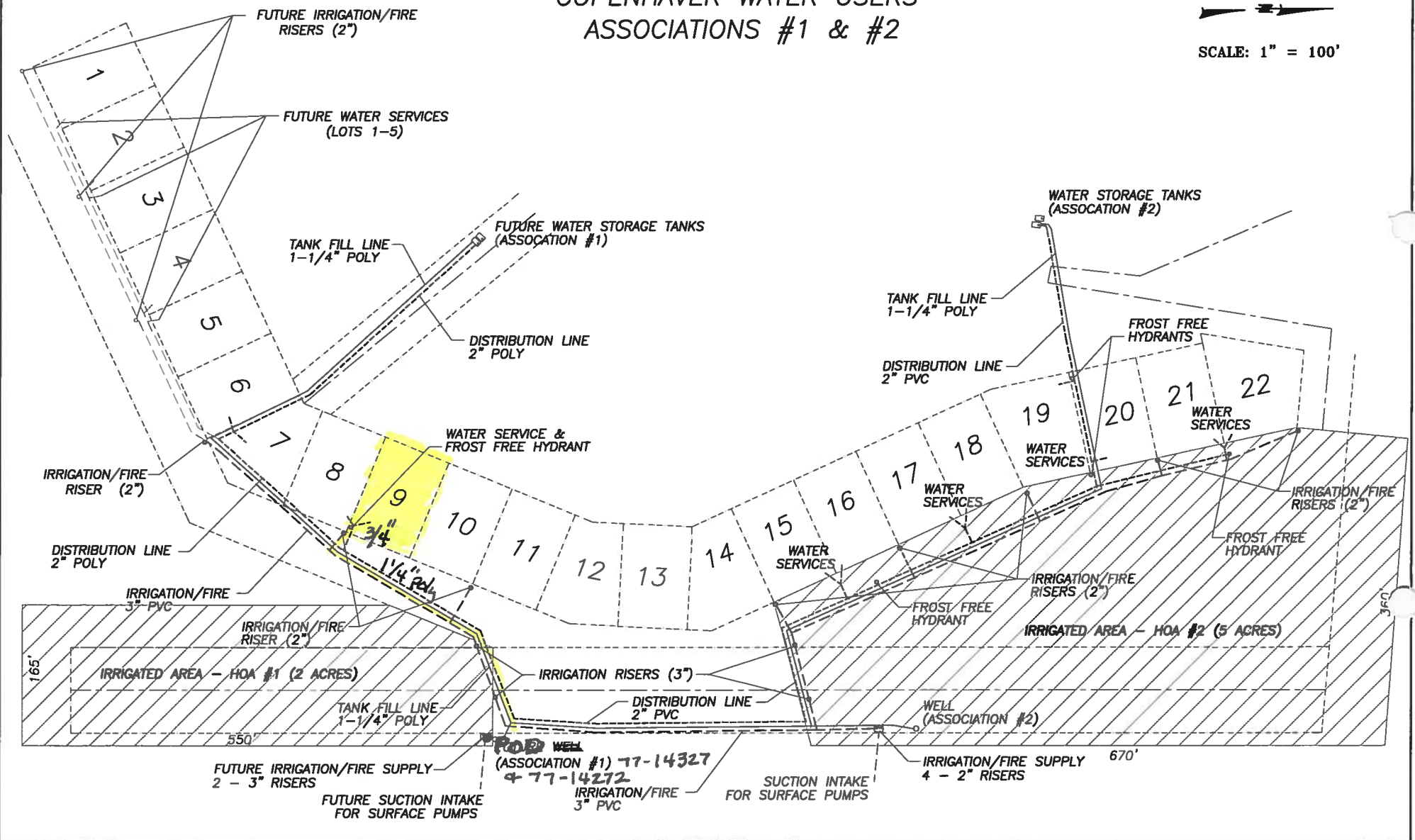
Plat of
**HOMESTEAD
ENTRY SURVEY**
No. 536th
in the
IDAHO
NATIONAL FOREST
in
Approximate
Sections 5, 6, Unsurveyed
T. 23N., R. 8E.
of the
BOISE BASE AND MERIDIAN,
IDAHO.

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 Hendon
U.S. Surveyor General

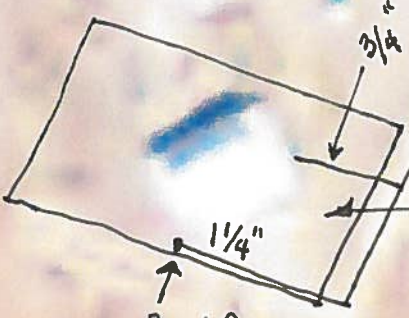
COPENHAVER WATER USERS ASSOCIATIONS #1 & #2

SCALE: 1" = 100'





Lot 10 →



POU Lot 9

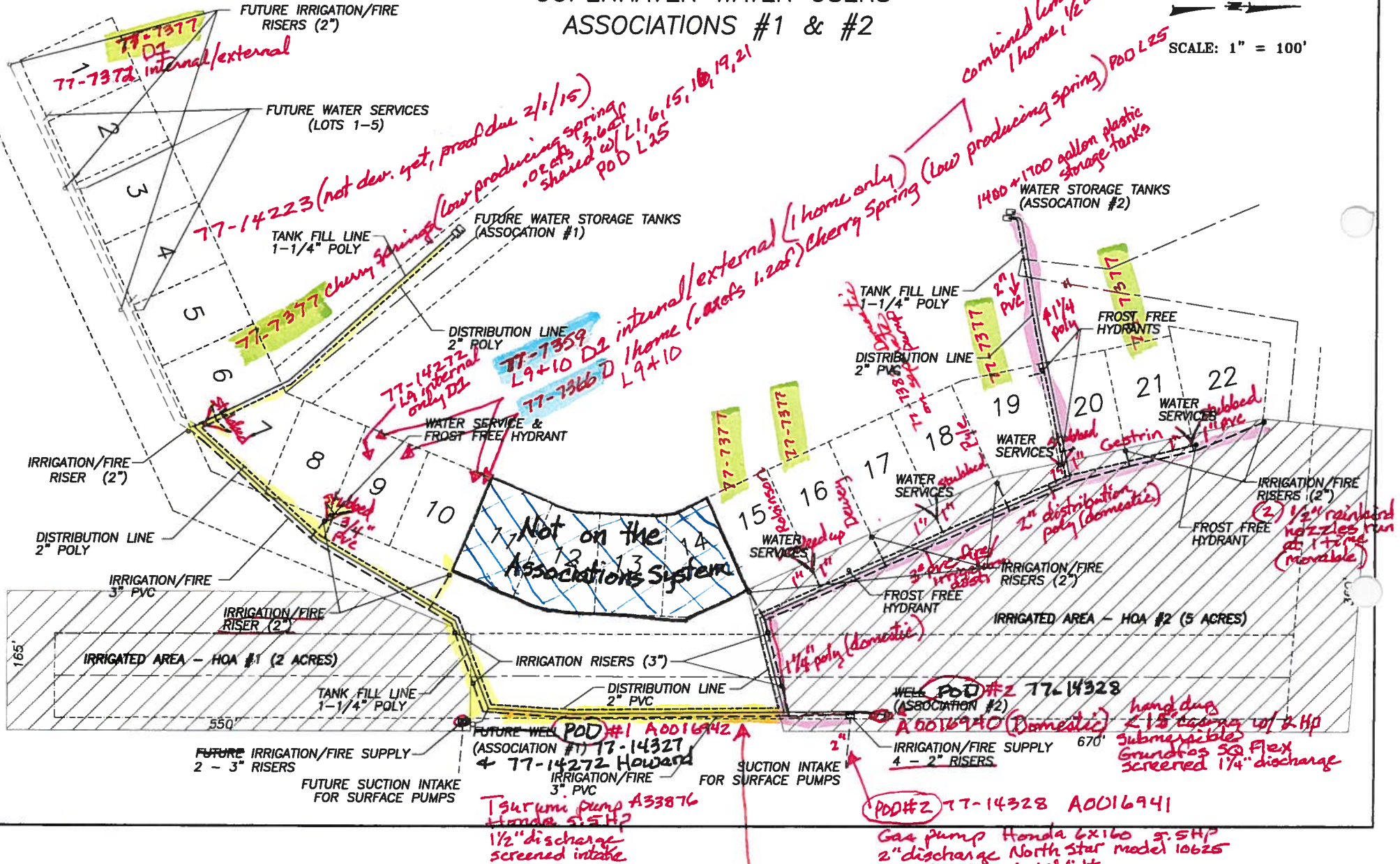
1 1/4"
buried
poly pipe

POD
77-14272
+ 77-14327
screened intake

77-7360

COPENHAVER WATER USERS ASSOCIATIONS #1 & #2

SCALE: 1" = 100'



POD #1 A0016942
 4 77-14272 Howard
 Irrigation/Fire 3\"/>

POD #2 77-14328 A0016941

Gas pump Honda 6x160 3.5HP
 2\"/>

This line is only to interconnect the systems for fire suppression emergencies (see 11/1/2012 email)

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



POD:

A0016942

5.5Hp

Tsurumi

Honda

A 33876

10' lift

1 1/2"

fire hose

+ 1 1/4"

buried

poly

(for

domestic

use)

09/30/2011



Screen &
intake

09/30/2011

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



POU:
 Domestic
 77-1427
 +
 77-1432
 (internal
 use only
 1 1/4"
 buried
 Poly,
 reduced
 to 3/4"
 1 1/2"
 firehose
 for
 77-1432
 irrigation
 to
 2 (1/2")
 rainbird

09/30/2011



POU
 domestic
 surround
 area is
 POU for
 irrigation
 (fire
 protection)
 77-1432

09/30/2011

77-14272 Howard + 77-14327 Copenhagen #1

S. Hemenway



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

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.