

[illegible]

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				<u>Totals</u>
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
48N	02E	5	1.7	.3															2.0
			L 1	L 2															

Total Acres: 2

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				<u>Totals</u>
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
48N	02E	5	1.7	.3															2.0
			L 1	L 2															

Total Acres: 2

Method of Determination:

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>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</u> <u>Size</u>
A0003218	BALDOR	5	SR1- 17711	FRANKLIN	5FDB1-S

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

D. FLOW MEASUREMENTS

1.

PUMP EQUATIONS WATER RIGHT No. 94-7414						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	5	119.0816327	0.7	15	45
Q =	0.259 cfs 116.3 gpm					

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \times 3 = 6 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 27.49 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 6.0 \text{ AF}$$

2. Volume Calculations for Other Uses: STORAGE TANK THAT IS UNDER GROUND 15 X 10 X 15 = 0.1 AF

G. NARRATIVE/REMARKS/COMMENTS : See attached pond data.

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

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
FIRE PROTECTION STORAGE	01/01 to 12/31		~~0.10 AF~~ 0.3 AF
IRRIGATION STORAGE	01/01 to 12/31		0.60 AF
IRRIGATION FROM STORAGE	03/15 to 10/31		0.60 AF
IRRIGATION	03/15 to 10/31	0.060 CFS	6.00 AF
<u>Totals:</u>		0.060 CFS	~~6.70 AF~~ 6.3 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

I. AUTHENTICATION

Field Examiner's Name E. J. [Signature] Date 7-18-2013

Reviewer [Signature] Date 8/2/2013

The pump sits atop of a concrete vault, 15 ft x 15 ft x 10 ft, within a well house, that was constructed over a hand dug well.

The volume of the vault calculated at 2,250 cuft or 0.1 acre feet. The yearly evaporation at an estimated rate of 0.1 inches per day was equivalent to 0.2 acre feet. Since the vault was constructed over the well, no seepage was calculated.

The overall yearly storage volume was calculated as follows;

Irrigation Storage	a.) vault size	0.1 AF
	b.) evaporation	0.2 AF
	c.) seepage	0.0 AF
	d.) Irrigation (2 ac x 3 af/ac)	6.0 AF
Total		6.3 AF

(Can only authorize up to the permit amount of 0.6 AF for irrigation storage)

Irrigation From Storage (2 ac x 3 af/ac) 6.0 AF

(Can only authorize up to the permit amount of 0.6 AF)

Irrigation annual volume (2 ac x 3 af/ac) 6.0 AF

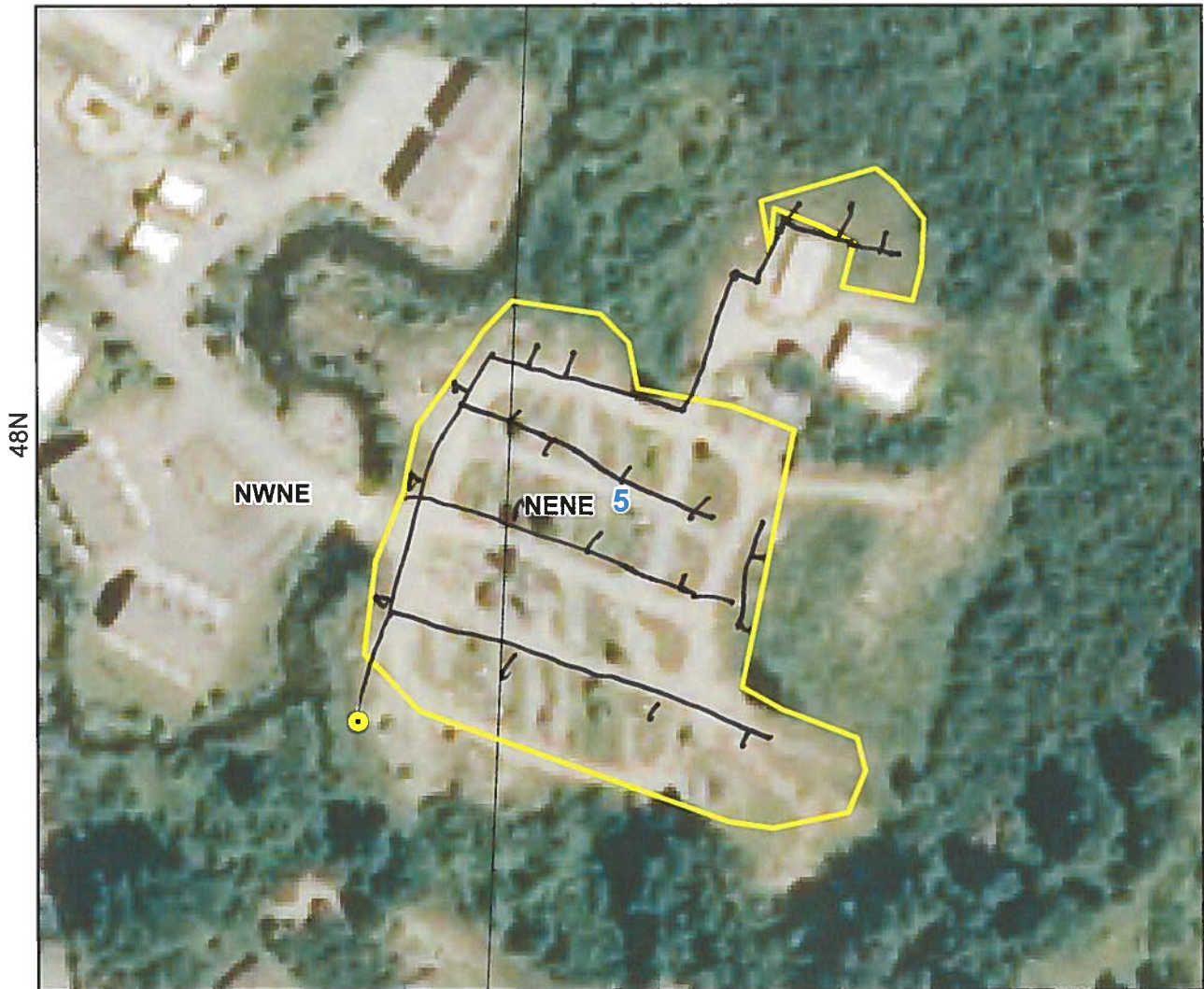
Fire Protection Storage	a) vault size	0.1 AF
	b.) evaporation	0.2 AF
	c.) seepage	0.0 AF
Total		0.3 AF

Total annual diversion volume:

6 AF (Irrigation) + 0.1 AF (Vault size) + 0.2 AF (Evaporation) = 6.3AF

State of Idaho
Department of Water Resources
Water Right License
94-7417 *SYSTEM*

02E



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.0175 0.035 0.07 Miles





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IMG_0399.JPG



IMG_0400.JPG



WELL PUMP .JPG



IMG_0408.JPG



IMG_0412.JPG



WELL HOUSE.JPG



USE 2.JPG



USE.JPG



USE 1.JPG



TAG.JPG



POWER.JPG

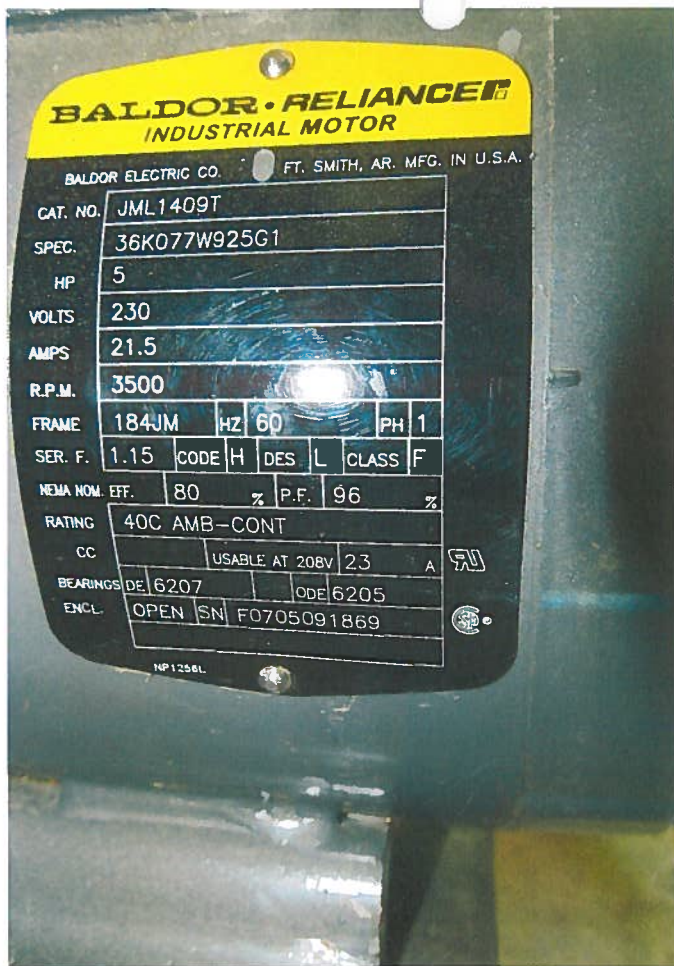


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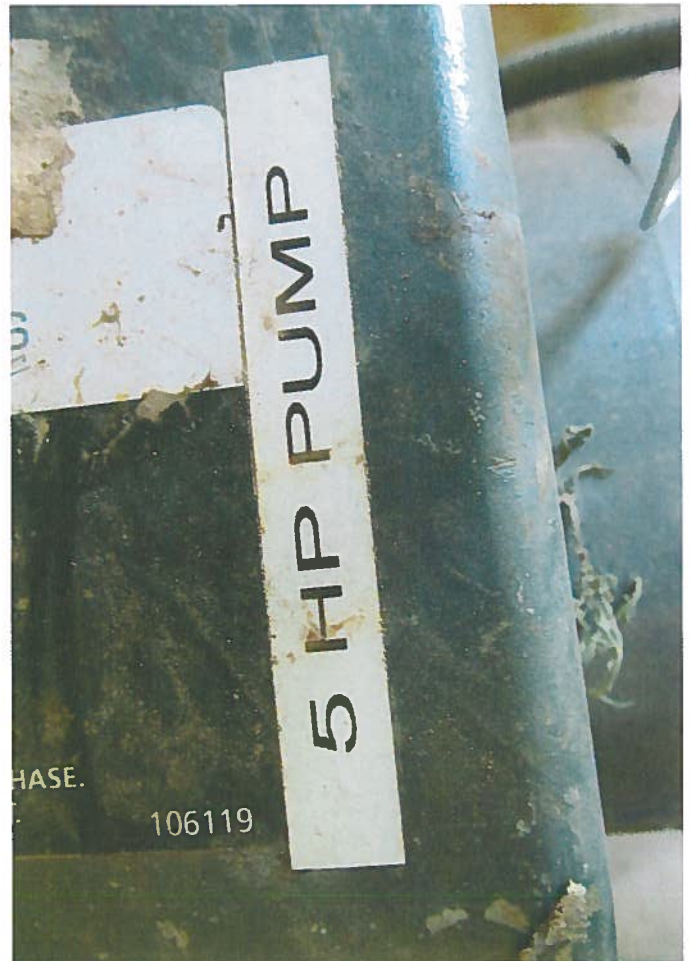


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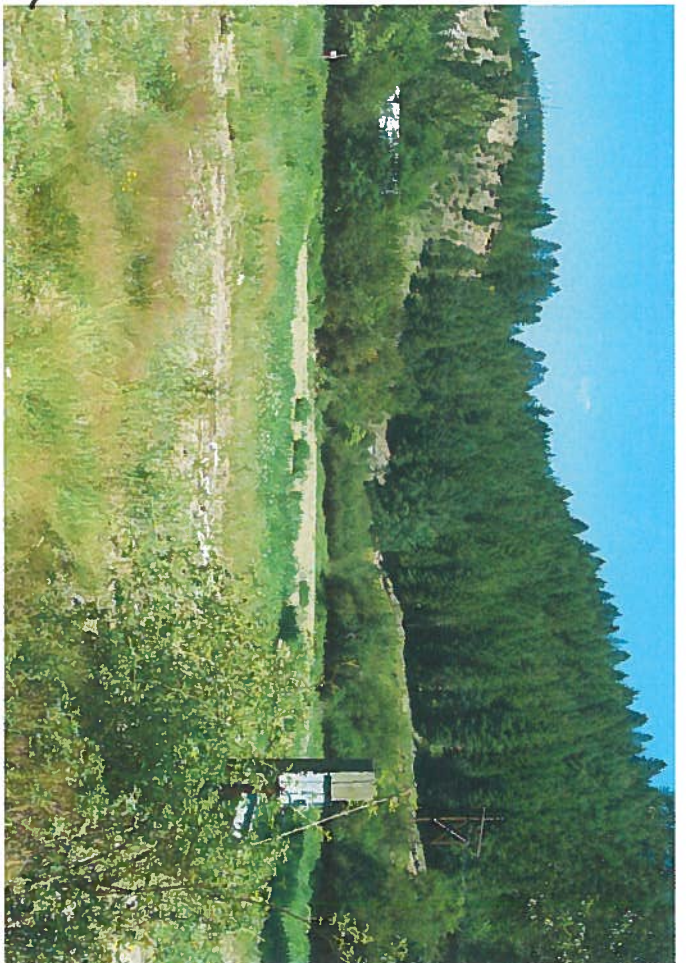


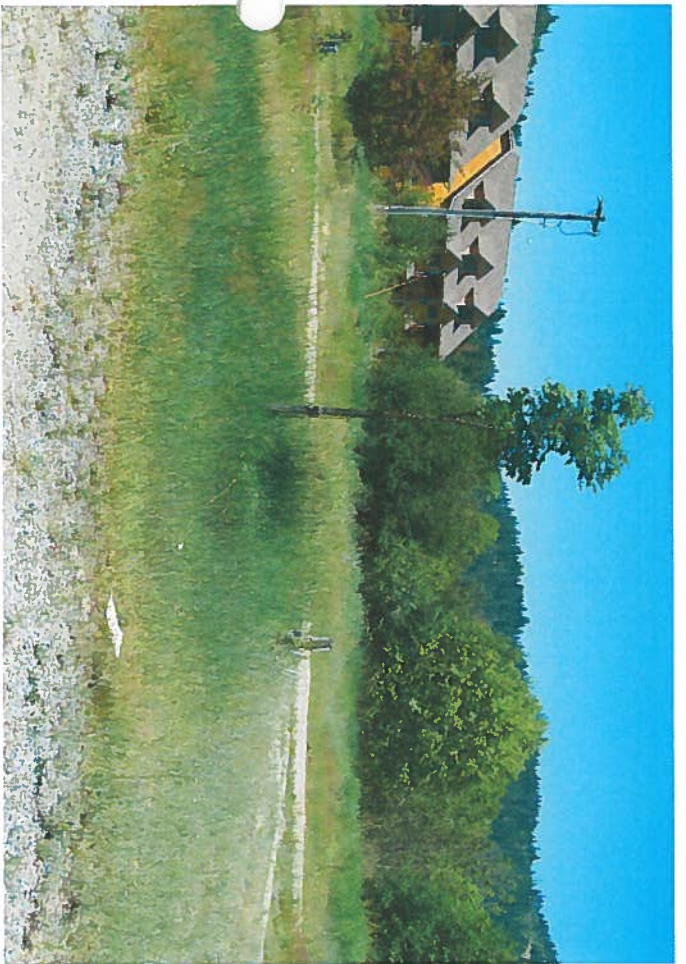
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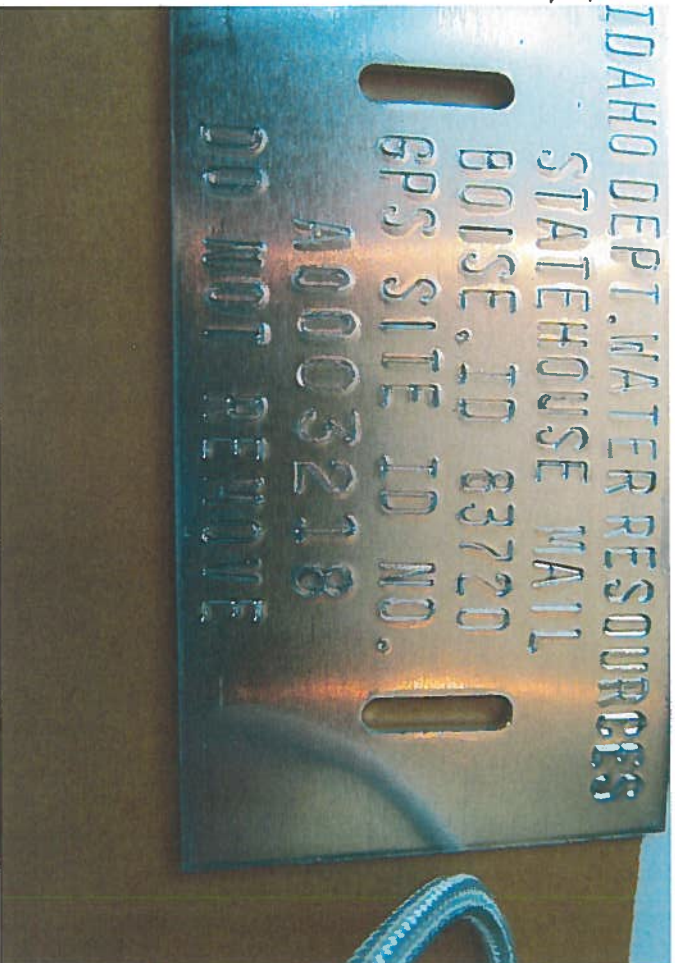


94-7419





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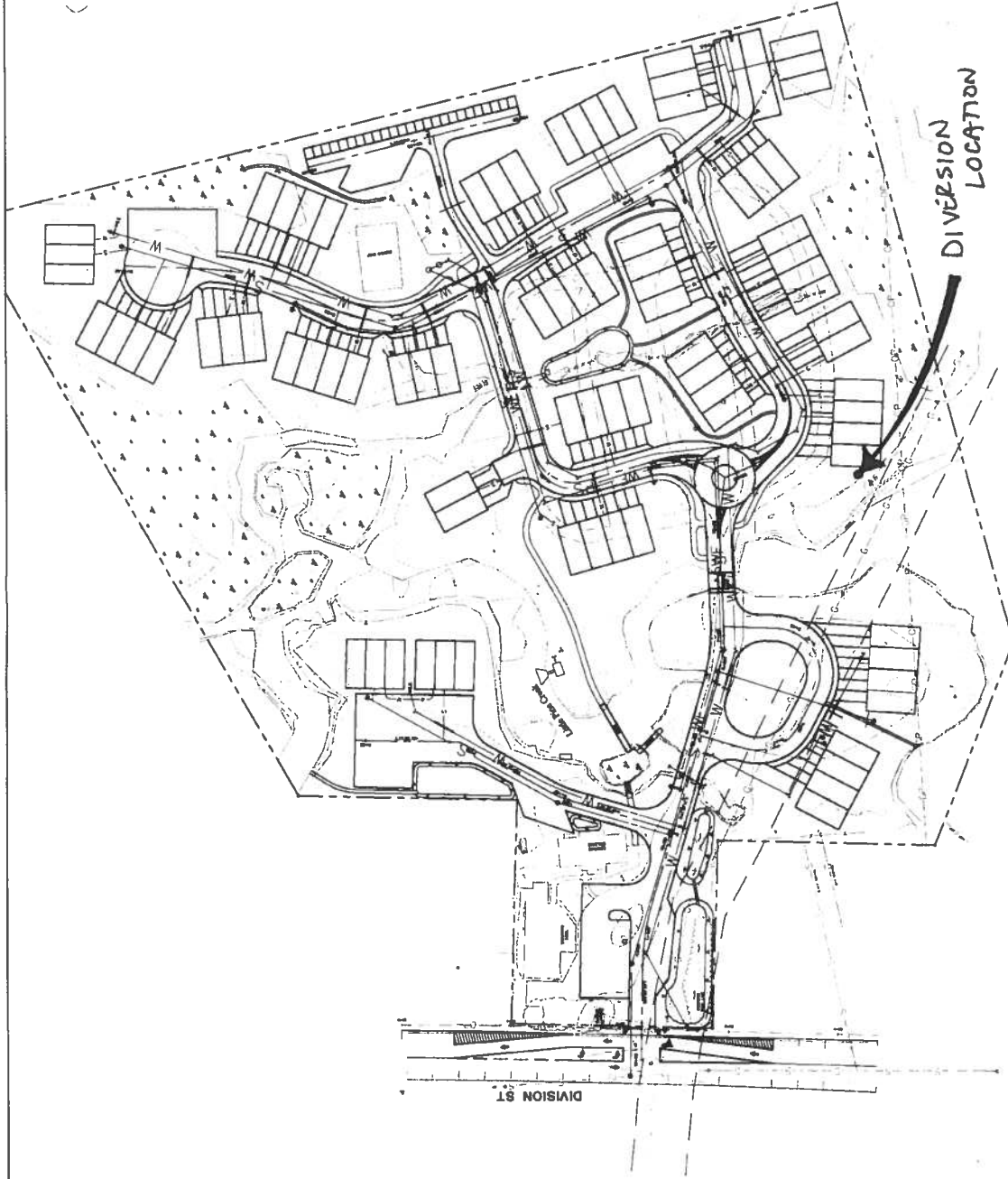


UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
 1-800-398-3285
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG

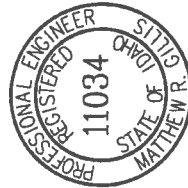


RECEIVED
 MAR 15 2007
 IDWRNorth

1147 SCALE: 1"=100'
 2254 SCALE: 1"=50'



DIVERSION
 LOCATION



WELCH CONER
 ASSOCIATES, INC.
 ENGINEERS & SURVEYORS
 1424 S. 10th Street, Suite 100
 P.O. Box 861, Liberty Lake, WI 54601
 Phone (208) 864-0332 Fax (208) 864-5946
 Phone (208) 255-8880 Fax (208) 255-8889

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LINE IS ONE INCH
 ON ORIGINAL DRAWING
 IF NOT CANNOT ON THIS SHEET
 PROJECT NO.: 12065
 DESIGNED BY: W.R.C.
 CHECKED BY: J.A.L.

NO.	DATE	REVISION DESCRIPTION	BY

HIGH WING CONSTRUCTION
 SILVER CREEK
 DEVELOPMENT

PROJECT OVERVIEW

DWG NAME:
 12065PROJ.DWG
 DATE:
 02-27-07
 SHEET NO.: