

**STARTING
LEFT
SIDE OF
FILE**

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 01-7010B

1. Owner: BYPASS LIMITED

Phone No. (212) 230-2100

Current Address: 885 Third Ave, Suite 3040 New York, New York 10022

2. Accompanied by: _____ EXAM. DATE: June 9, 1988

Address: _____ Phone No. _____

Relationship to Permit Holder: _____

3. Source: Snake River tributary to Columbia River

B. OVERLAP REVIEW

1. Other water rights with same place of use: _____

☐ Copies Attached

2. Other water rights with same point of diversion: See attached sheet

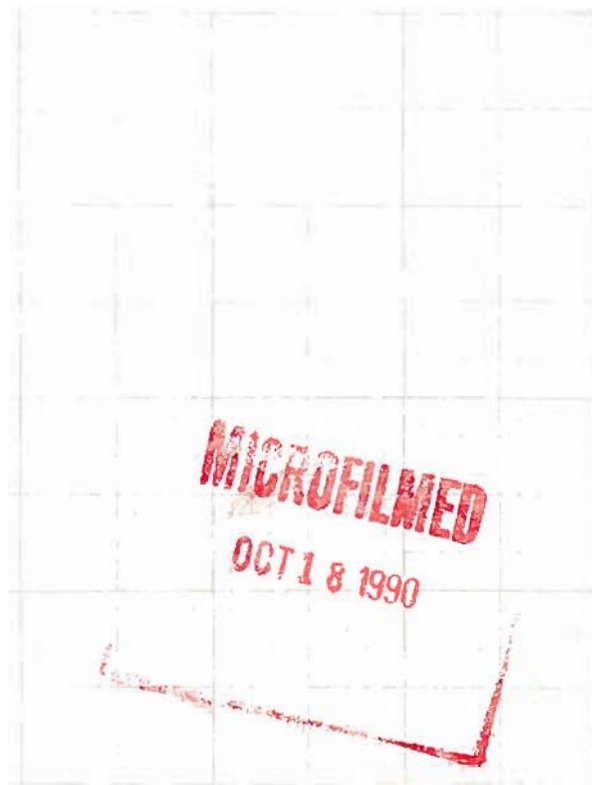
Northside Canal Co-Irrigation

☐ Copies Attached

☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☒ Alternative diagram attached



Scale: 1" = _____

2. ☒ Copy of U.S.G.S. Quadrangle Attached
Showing location(s) of point(s) of diversion and
place(s) of use (required).

☐ Aerial Photo Attached
(required for irrigation of 10 acres or more).

☒ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater.

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

See attached narrative report

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☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
1	5	SW	NW		20	105	21E	Jerome	4565 Quad Milner Dam

6. Place(s) of Use:

Indicate Method of Determination 4565 Quad

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
105	20E	13		X															

Do not use this space

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D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Current Meter	665		AA	NE 6059	AA	FEB 1987 IDWR
	Gurley					
Counter	Gurley analog NE 6215					

2. Measurements:

Current meter measurement made by cable at location of station Mam #2 spin test 1m45s. (See current-meter measurement notes and calculations by Reid Newby attached)

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method: Current Meter 3224 cfs

2. Alternate Method for Checking Purposes: Discharge of Northside Canal @ Mam #1 4565 gage plus Bypass Canal & broad-crested weir minus B and C Canal diversions - 3094 cfs (See attached sheet)

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3); Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (8)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{i.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{i.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

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H. REMARKS AND OVERLAP REVIEW ANALYSIS

I. RECOMMENDATIONS

1. Recommended Amounts

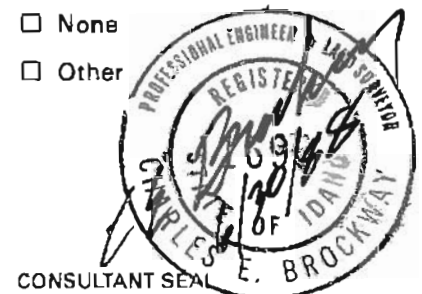
Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>Power</u>	<u>Jan 31</u>	<u>Dec 31</u>	<u>3000 cfs</u>	
Totals:			<u>3000 cfs</u>	

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

J. AUTHENTICATION

Field Examiner's Name Charles E. Brockway
Signature CE Brockway
Certification Date _____
Field Report Preparation Date June 30, 1988



- K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.



BYPASS HYDRO PERMIT 01-7010B
TWIN FALLS NORTHSIDE CANAL AND
NORTHSIDE CANAL WATER RIGHTS DIVERTING AT MILNER

TWIN FALLS NORTHSIDE CANAL

WATER RIGHT NO 01-2015

NORTHSIDE CANAL CO

WATER RIGHT NO 01-0005
01-0016
01-0212
01-0213
01-0215
01-0220
01-7011

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WATER RIGHTS EXAMINER'S REPORT-NARRATIVE
Permit No. 01-7010B

Owner: Bypass Limited

Examiner: C.E. Brockway P.E.

Date: June 29, 1988

The field examination for beneficial use on Permit No 01-7010B was performed on June 9, 1988.

The system consists of diversions from the Snake River at Milner Dam. Water is diverted through the Milner Gooding Canal to the Bypass Canal which conveys water from the Milner Gooding Canal to the Northside Canal System. Water is also conveyed down the Northside Main Canal to the confluence with the Bypass Canal. Both canal flows are then collected in the power-house forbay as shown on the location map. The tailrace of the power-house is the Northside Main canal through which irrigation water is then conveyed to Wilson lake and onto the Northside Canal Company project. Inflow to the project is measured in the Bypass Canal using a 50 ft wide broad-crested weir, in the Northside Main Canal at the USGS Main #1 gaging station approximately .5 miles upstream of the power-house. Two irrigation diversions occur from the inflow sources upstream of the power house. The B canal diverts just downstream of the measuring structure on the ByPass Canal and the C Canal diverts just upstream of the power house in the forbay. Both of these canals have rated sections operated by the Northside Canal Company. The outflow from the project is measured approximately 3/4 mile downstream at a gaging station identified as Main#2, a former USGS station now operated by the Northside Canal Company. The rating curve for this station is maintained by the Northside Canal Company and is currently being updated. The power plant consists of 3 turbine-generator units rated at a maximum of 3.5 MW each under a net head of 41 feet. The plant is fully automatic with radial spillway gates maintaining the forbay at elevation 4125.6 ft above sea level.

The field exam was conducted during acceptance tests for the turbines. All three turbines were operating during the hours during which the discharge was current metered at station Main#2. Discharge was not constant during the exam as shown by the changing stage on the current meter field sheet. However, the average discharge during the exam was 3224 cfs which exceeds the permitted 3000 cfs. Maximum power generation was 9.592 MW.

An alternate discharge determination is possible using the inflow measurements of the Bypass Canal broad-crested weir and the USGS Northside Canal Main #1 station and subtracting the irrigation diversions through the B and C canals.

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During the period of the field exam, the discharge
calculated by the alternate method was 3094 cfs.

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Shoshone, Idaho 83352
June 10, 1988

Charles E. Brockway
Research & Extension Center
Kimberely, Idaho 83341

Regards: North Side Canal Co. Main # 2 measurement

Dear Chuck,
My measurement at the above referenced site made on
June 9, 1988 shows that the power plant was using at
that time a total of 3224 C.F.S.

Enclosed is a copy of the measurment notes.

If I can be of any futher service please contact
me.

Sincerely,

Reid J. Newby
Reid J. Newby

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BYPASS HYDRO

6/9/88

CEB.

Main #2

Time

Gage

11:20

5.22'

11:30

5.39

Begin Current Meter Measurement
(Reid Newby)

11:40

5.41

11:50

5.33

12:00

5.25

12:10

4.88

12:22

4.57

12:30

4.30

Finish

Average Current metered flow
for period 11:30 to 12:35
was 3224.94 by Reid Newby.

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by V. A.
H. A. A.
1000

TIMES:	STATION.	GAGE	CORR.	ADJ. READING	CFS.
10:00	1	1	0.0	1.0	1.0
10:05	1	1	0.0	1.0	1.0
10:10	1	1	0.0	1.0	1.0
10:15	1	1	0.0	1.0	1.0
10:20	1	1	0.0	1.0	1.0
10:25	1	1	0.0	1.0	1.0
10:30	1	1	0.0	1.0	1.0
10:35	1	1	0.0	1.0	1.0
10:40	1	1	0.0	1.0	1.0
10:45	1	1	0.0	1.0	1.0
10:50	1	1	0.0	1.0	1.0
10:55	1	1	0.0	1.0	1.0
11:00	1	1	0.0	1.0	1.0
11:05	1	1	0.0	1.0	1.0
11:10	1	1	0.0	1.0	1.0
11:15	1	1	0.0	1.0	1.0
11:20	1	1	0.0	1.0	1.0
11:25	1	1	0.0	1.0	1.0
11:30	1	1	0.0	1.0	1.0
11:35	1	1	0.0	1.0	1.0
11:40	1	1	0.0	1.0	1.0
11:45	1	1	0.0	1.0	1.0
11:50	1	1	0.0	1.0	1.0
11:55	1	1	0.0	1.0	1.0
12:00	1	1	0.0	1.0	1.0
12:05	1	1	0.0	1.0	1.0
12:10	1	1	0.0	1.0	1.0
12:15	1	1	0.0	1.0	1.0
12:20	1	1	0.0	1.0	1.0
12:25	1	1	0.0	1.0	1.0
12:30	1	1	0.0	1.0	1.0
12:35	1	1	0.0	1.0	1.0
12:40	1	1	0.0	1.0	1.0
12:45	1	1	0.0	1.0	1.0
12:50	1	1	0.0	1.0	1.0
12:55	1	1	0.0	1.0	1.0
13:00	1	1	0.0	1.0	1.0
13:05	1	1	0.0	1.0	1.0
13:10	1	1	0.0	1.0	1.0
13:15	1	1	0.0	1.0	1.0
13:20	1	1	0.0	1.0	1.0
13:25	1	1	0.0	1.0	1.0
13:30	1	1	0.0	1.0	1.0
13:35	1	1	0.0	1.0	1.0
13:40	1	1	0.0	1.0	1.0
13:45	1	1	0.0	1.0	1.0
13:50	1	1	0.0	1.0	1.0
13:55	1	1	0.0	1.0	1.0
14:00	1	1	0.0	1.0	1.0
14:05	1	1	0.0	1.0	1.0
14:10	1	1	0.0	1.0	1.0
14:15	1	1	0.0	1.0	1.0
14:20	1	1	0.0	1.0	1.0
14:25	1	1	0.0	1.0	1.0
14:30	1	1	0.0	1.0	1.0
14:35	1	1	0.0	1.0	1.0
14:40	1	1	0.0	1.0	1.0
14:45	1	1	0.0	1.0	1.0
14:50	1	1	0.0	1.0	1.0
14:55	1	1	0.0	1.0	1.0
15:00	1	1	0.0	1.0	1.0
15:05	1	1	0.0	1.0	1.0
15:10	1	1	0.0	1.0	1.0
15:15	1	1	0.0	1.0	1.0
15:20	1	1	0.0	1.0	1.0
15:25	1	1	0.0	1.0	1.0
15:30	1	1	0.0	1.0	1.0
15:35	1	1	0.0	1.0	1.0
15:40					

10:15 MAIN^H 8.00 -32 7.65 2598

10; 32 Bi-Pass 3.32 - .00 3.32 , 949

3547

"DEDUCTS"

$$10:50 \quad B \quad 2.68 \quad - .18 \quad 2.50 = 25$$
$$10:40 \quad C \quad 3.70 + 104 \quad 3.74 = 428$$

453

$$\begin{array}{r} 453 \\ \hline 3094 \end{array}$$

12/15 MA16 H1 7.95 -32 7.63 2574

12: 25 B: - Pass 3.30 - .00 3.30 940

3514

" DEUCES "

12:28 B 2.66 -18 2.48 24

12:32 C 3.66 +.04 3.70 400

424

$$\begin{array}{r} 424 \\ \hline 3070 \end{array}$$

5.40 READING ON MAIN #2

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BYPASS HYDRO
01-7010B



Outflow Gaging Station Main #2



Bypass Canal
B.C. Weir

BYPASS CANAL BROAD-CRESTED WEIR





C Canal Diversion



C Canal
Gaging Sta

C Canal Gaging Station

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B Canal Diversion - Headgate



B Canal Gaging Station

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STATION	ANGLE	W. L.	DEPTH	TIME	AT	IN	ADJUSTED	AREA	DIST.
NO.	DEG.	IN.	FEET	SEC.	POINT	VERTICAL	OR	SQ. FT.	CHARGE
5.40	5.0	1.5	0			0		0	0
	8.0	3.5	2.90			.60		10.15	6.09
	12.0	4.0	4.50			1.80		18.00	32.40
	16.0	4.0	7.00		3.30	2.55		28.00	71.40
11.40					1.80				
5.41	20.0	4.0	8.50		4.20	3.30		34.00	112.20
					2.40				
	24.0	4.0	8.50		4.90	7.00		34.00	136.00
					3.10				
	28.0	4.0	8.30		5.00	4.30		33.20	142.76
					3.60				
	32.0	4.0	8.40		5.50	4.70		33.60	157.92
					3.90				1.00
11.50	36.0	4.0	8.40		5.60	5.05		33.60	169.68
5.33					4.50				
	40.0	4.0	8.60		6.00	5.20		34.40	178.88
					4.40				
	44.0	4.0	8.70		6.10	5.40		34.80	187.92
					7.70				
	48.0	4.0	8.65		6.10	5.55		34.60	192.03
					5.00				
	52.0	4.0	8.60		6.50	5.85		34.20	200.07
12.00					5.20				
5.25	56.0	4.0	8.50		6.50	6.00		34.00	204.00
					5.50				
	60.0	4.0	8.40		6.00	5.30		33.60	178.08
					4.60				
	64.0	4.0	8.10		6.10	5.50		32.40	178.20
					4.90				
	68.0	4.0	7.90		5.90	5.50		31.60	173.80
					5.10				
12.00	72.0	4.0	8.00		5.10	4.60		32.00	147.20
4.88					4.10				
	76.0	4.0	7.70		5.30	4.70		30.80	144.76
					4.10				
	80.0	4.0	7.40		5.10	4.65		27.60	137.64
					4.20				
	84.0	4.0	7.20		4.60	4.35		28.80	125.28
12.00					4.10				
4.57	88.0	4.0	7.00		4.10	3.75		28.00	105.00
					3.40				
	92.0	4.0	6.90		3.80	3.40		27.60	93.84
					3.00				
	96.0	4.0	6.40		3.60	3.05		25.60	78.08
					2.50				
	100.0	4.0	6.30		2.70	2.20		25.20	55.44
					1.70				
	104.0	3.5	6.00	MISS	1.20	1.00		21.00	21.00
					.80				
	107.0	2.5	4.80	MISS		0		12.00	0

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Station Number North Side Canal G. Main #2
 Date 06-09, 1988 Party Reid J. Newby
 Width 111.0 Area 277.9 Vel. 4.15 G.H. _____ Disch. 3224.44
 Method 2.28 No. secs. 30 G. H. change +- in 1 1/4 hrs. Susp. 500
 Method coef. _____ Hor. angle coef. _____ Susp. coef. _____ Meter No. 6052

GAGE READINGS

TIME	RECORDED	INSIDE	OUTSIDE
<u>11:38</u>		<u>5.40</u>	
<u>12:25</u>		<u>4.31</u>	
WEIGHTED M.G.H.			
G. H. CORRECTION			
CORRECT M. G. H.			

Date rated 2-1987 Used rating
 for rod _____ susp. Meter 1.00 ft.
 above bottom of wt.
 Wading, cable, ice, boat, upstr., downstr.,
 side bridge 20 feet mile, above,
 below gage, _____

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%), based on
 following conditions: Cross section Solid Bottom - Even

Flow Steady - dropping Weather overcast Windy Cool

Other _____ Air _____ °F @ _____

Gage OKay Water _____ °F @ _____

Record removed None Intake flushed None

Control Channel

Remarks Changing Gage height.

G. H. of zero flow _____ ft.

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A. GENERAL DATA

Runner diameter : 2120 mm

Net head : 12,5 m

Turbine discharge : 30,8 m³/s

Rational speed : 257,14 rpm

Max. runaway speed : 617,1 rpm

Max. output at runner : 3480 kW

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6/9/88

TIME	AMP	100 V HIGH ④ VOLT	CONSTANT $\sqrt{3}$	P.F.	MEGAWATS
		~~4238~~ 4320	1.732	.99	9.592
11:30	1320	4290 ~~4340~~	1.732	.99	8.797
11:40	1210	4200	1.732	.99	8.714
11:50	1210	4200	1.732	.99	7.778
Flow Decreasing 12:00	1080	4200	1.732	.99	5.833
12:10	810	4200	1.732	.99	5.617
12:20	780	4200	1.732	.99	6.337
12:30	880	4200	1.732	.99	
12:40					
12:50					
1:00					

Robert A. Hester

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Table 1

TOTAL FLOW (cfs) VS. GROSS HEAD (ft)

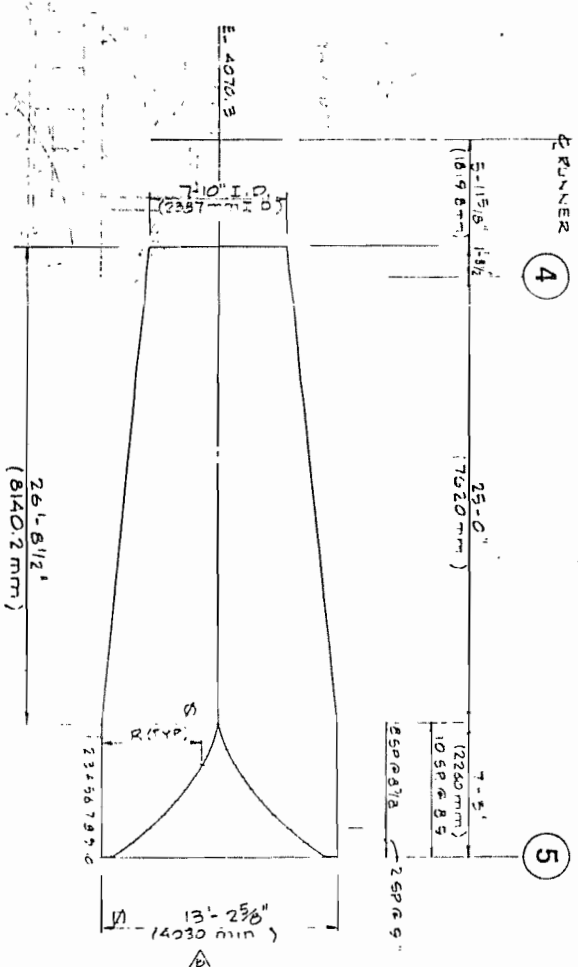
<u>% Time</u>	<u>Total Flow</u>	<u>Bv-Pass</u>
2	24.1	42.60
2	272.4	42.55
2	423.4	42.52
2	545.3	42.49
2	619.1	42.45
2	698.9	42.40
2	774.0	42.36
2	836.4	42.33
2	926.0	42.28
2	1101.6	42.16
2	1420.4	41.89
2	1635.5	41.71
2	1852.9	41.52
2	2012.1	41.39
2	2138.6	41.26
2	2264.3	41.13
2	2381.7	41.01
2	2485.3	40.91
2	2559.0	40.83
2	2663.3	40.73
2	2738.0	40.65
2	2810.0	40.58
2	2862.0	40.52
2	2909.3	40.48
2	2978.7	40.41
2	3031.9	40.35
2	3085.8	40.30
2	3128.0	40.25
2	3160.5	40.22
2	3216.6	40.16
2	3286.3	40.09
2	3343.3	40.04
2	3433.5	39.94

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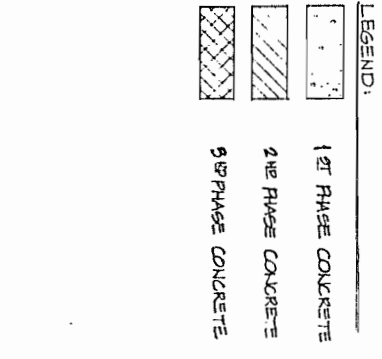
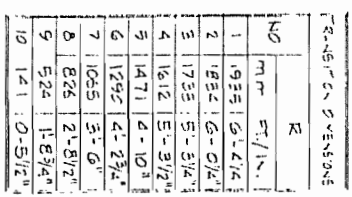
001104

Note: Gross head could be recalculated with the final design.

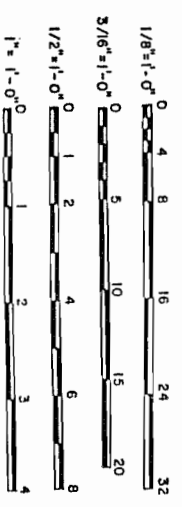
BYPASS HYDRO



R	
mm	ft./in.
1	1.95 ± 0.214
2	1.85 ± 0.012
3	1.75 ± 0.512
4	1.612 E-3/2
5	1.471 E-10 ³
6	1.294 E-23.4
7	1.065 E-8
8	8.26 E-8/2
9	5.24 E-18.7.4
10	1.1 E-5/12

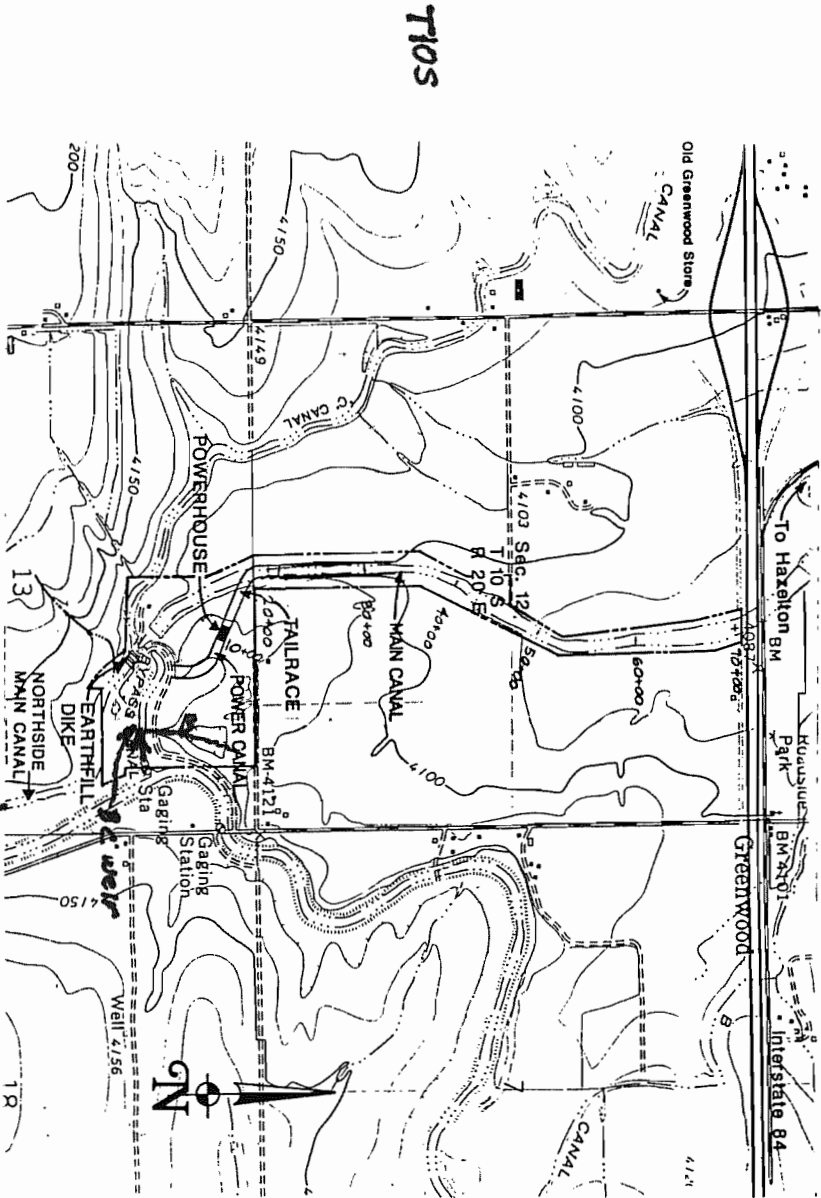


1. THERE ARE (12) PULL POINTS SHALL BE INSTALLED IN THE FORMWORK. LOCATIONS OF PULL POINTS SHALL BE DETERMINED BY CE/INTERIOR REPRESENTATIVE. PULL POINTS SHALL BE SIMILAR TO SECTION F OF SH-113 WITH THE EXCEPTION THAT THE 1/4" SHALL NOT BE INCLUDED.
2. PROVIDE SILICONE SEAL AT OTHER EDGE OF CONCRETE AND TIEBACK STEEL AT ALL UNITS.

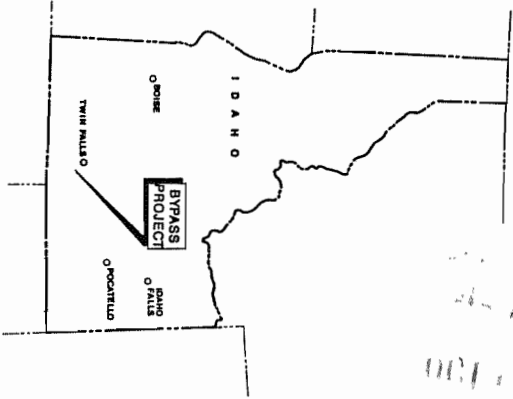
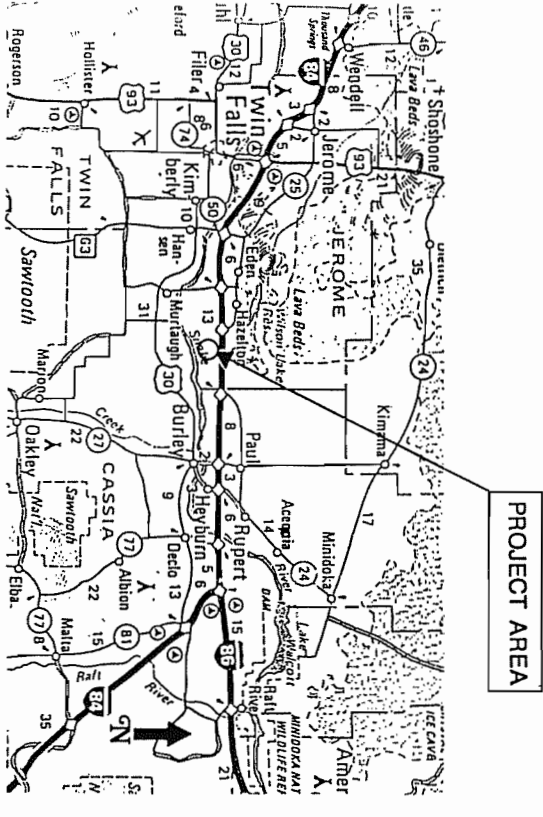
DESIGN CHANGE NOTICE NO. 014 PAGE 3 OF 11

BYPASS LIMITED

BYPASS HYDROELECTRIC PROJECT



PROJECT LOCATION
1" = 1000'
0 1000 2000
Gaging Sta
Main m

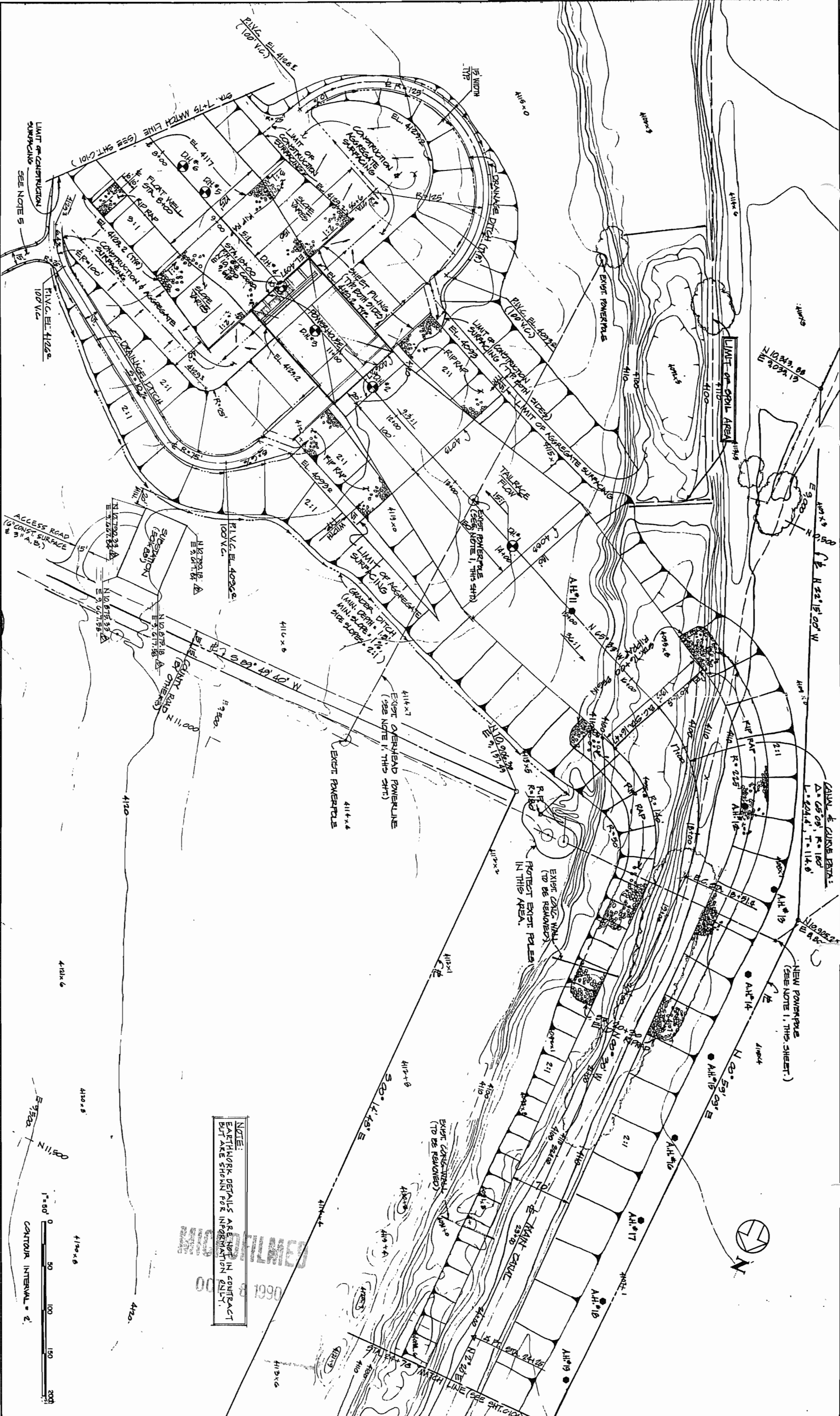


										DESIGNED BY _____ DRAWN BY <i>SECHOFF</i> CHECKED BY <i>CHAPPEL</i> DATE <i>10 MAR 87</i>											

DESIGNED BY G.C. HEISE	DRAWN BY <i>Sechert</i>	CHECKED BY A.E. ESKEEL	IN CHARGE C. KROHNEN	DATE 15 MAY 87	REV. DATE BY SUB APP DESCRIPTION	REV. DATE BY SUB APP DESCRIPTION
					0 9 JUN 87 RES CK ISSUED FOR CONSTRUCTION	
					1 1 JUN 87 RES CK ADDED COORDINATES TO SUBSTANTIAL CORRECTIONS	
					15 MAY 87 RES CK ISSUED FOR BID	



P. J. Pirsquins Brinckerhoff Parsons Brinckerhoff Otis & Douglas, Inc. Engineers • Architects • Planners Sacramento, California 95815		BYPASS LIMITED: BYPASS HYDROELECTRIC PROJECT SITE PLAN: POWERHOUSE AND TAILRACE
SUBMITTED: <i>Harold Fluitt</i> APPROVED: <i>Q. E. Langman</i>	SCALE 1" = 50' OF AS SHOWN: SHEET NO.-REL C106-0	PAGE NO. 106



NOTE:
EARTHWORK DETAILS ARE NOT IN CONTRACT
BUT ARE SHOWN FOR INFORMATION ONLY.

RE NOT IN CONTR
FORMATION ONLY

NORTH SIDE CANAL COMPANY
 921 NORTH LINCOLN AVENUE
 PHONE 324-2319 -- 324-2310
 JEROME, IDAHO 83338

May 20th

$$\begin{array}{r} \text{MAIN \#1} \quad 6.37 \quad -32 = 1840 \\ \text{Bi-Pass} \quad \underline{979} \\ 2719 \end{array}$$

$$\begin{array}{r} \text{DEDUCT "B"} \quad 2.58 \quad -18 = 23 \\ \text{"C"} \quad 4.04 \quad +04 = 470 \\ \quad \quad \quad \underline{493} \quad \quad \quad \underline{493} \\ \quad \quad \quad \quad \quad \quad \underline{2226} \end{array}$$

$$\text{MAIN \#2} \quad 4.32 = \underline{2260}$$

May 26

$$\begin{array}{r} \text{MAIN \#1} \quad 6.40 \quad -32 = 1854 \\ \text{Bi-Pass} \quad \underline{1019} \\ 2873 \end{array}$$

$$\begin{array}{r} \text{DEDUCT "B"} \quad 2.52 \quad -18 = 23 \\ \text{"C"} \quad 4.26 \quad +04 = 511 \\ \quad \quad \quad \underline{534} \quad \quad \quad \underline{534} \\ \quad \quad \quad \quad \quad \quad \underline{2339} \end{array}$$

$$\text{MAIN \#2} \quad 4.40 = 2345$$

$$\begin{array}{r} \text{May 28} \quad \text{MAIN \#1} \quad 6.93 \quad -32 = 2097 \\ \text{Bi-Pass} \quad \underline{931} \\ 3028 \end{array}$$

DEDUCT:

$$\begin{array}{r} \text{"B"} \quad 2.54 \quad -18 \quad 23 \\ \text{"C"} \quad 4.26 \quad \underline{511} \\ \quad \quad \quad \underline{534} \end{array}$$

$$\begin{array}{r} \underline{534} \\ 2494 \end{array}$$

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$$\text{MAIN \#2} \quad 4.52 = 2472$$

ESTABLISHED 1907

Main No. 1 Corrections

1967
 4/18 +0.6
 6/19 +.15
 6/19 +.06
 7/13 +.01
 7/21 +.18
 8/12 +.25
 8/14 +.13
 8/23 -1.03
 9/15 -1.11
 9/22 +.01
 1968
 5/2 +.08
 5/23 +.11
 6/11 +.06
 6/13 +.10
 7/1 +.05
 7/7 +.15
 8/7 +.17
 8/11 +.17
 8/11 +.17
 8/11 +.17
 8/11 +.17
 1967
 5/2 6.80 = 146 +0.7
 5/7 2.47 = 2520 +1.0
 5/23 7.38 = 2520 +1.0
 6/11 7.50 = 2546 +1.0
 7/26 -1.08
 8/11 -1.08
 8/26 +1.07
 9/13 -1.04
 1970
 4/29 -1.01
 6/10 +.11
 7/8 -.04
 1974
 7/1 -1.14
 1988
 354 -32

1977-9/14

Main No. 1

Gage	Disch.	Gage	Disch.	Gage	Disch.
.40	9	4.00	972 ^{3.8}	.40	2466
.50	22	.10	1010 ^{3.9}	.50	2513
.60	35	.20	1049 ^{4.0}	.60	2560
.70	50	.30	1089 ^{4.0}	.70	2607
.80	66	.40	1129 ^{4.0}	.80	2654
.90	82	.50	1169 ^{4.1}	.90	2701
1.00	99	.60	1210 ^{4.1}	8.00	2748
.10	118	.70	1251 ^{4.2}	.10	2795
.20	137	.80	1293 ^{4.2}	.20	2842
.30	157	.90	1335 ^{4.2}	.30	2889
.40	178	5.00	1377 ^{4.3}	.40	2935
.50	199 ^{4.3}	.10	1420 ^{4.3}	.50	2982
.60	222 ^{4.3}	.20	1463 ^{4.3}	.60	3028
.70	245 ^{4.4}	.30	1506 ^{4.3}	.70	3075
.80	269 ^{4.4}	.40	1549 ^{4.4}	.80	3121
.90	294 ^{4.4}	.50	1593 ^{4.5}	.90	3167
2.00	320 ^{4.4}	.60	1638 ^{4.5}	9.00	3213
.10	346 ^{4.5}	.70	1682 ^{4.6}	.10	3258
.20	373 ^{4.5}	.80	1727 ^{4.6}	.20	3304
.30	401 ^{4.6}	.90	1772 ^{4.6}	.30	3349
.40	430 ^{4.6}	6.00	1817 ^{4.6}	.40	3394
.50	459 ^{4.7}	.10	1862 ^{4.6}	.50	3439
.60	489 ^{4.7}	.20	1908 ^{4.6}	.60	3484
.70	519 ^{4.7}	.30	1954 ^{4.6}	.70	3528
.80	551 ^{4.7}	.40	2000 ^{4.6}	.80	3572
.90	582 ^{4.7}	.50	2046 ^{4.6}	.90	3615
3.00	615 ^{4.7}	.60	2092 ^{4.7}		
.10	648 ^{4.7}	.70	2139 ^{4.6}		
.20	682 ^{4.7}	.80	2185 ^{4.7}		
.30	716 ^{4.7}	.90	2232 ^{4.7}		
.40	751 ^{4.7}	7.00	2278 ^{4.7}		
.50	786 ^{4.7}	.10	2325 ^{4.7}		
.60	823 ^{4.7}	.20	2372 ^{4.7}		
.70	859 ^{4.7}	.30	2419		
.80	896 ^{4.7}				
.90	934 ^{4.8}				
4.00	972 ^{4.8}				

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**CORRECTIONS
MAIN # 2**

1965

5/10 5.28 = 2836 +.06
5/17 5.57 = 2839 +.17
6/25 5.80 = 3026 +.11
7/19 6.26 = 3361 +.07
8/13 6.12 = 3258 +.02
8/23 4.98 = 1966 +.08

1967

4/22 4.88 = 2072 +.09
5/26 5.84 = 3101 +.13
6/20 5.77 = 2836 +.03
7/23 6.12 = 3297 +.02
8/26 6.14 = 3187 +.01

1970

6/11 5.77 = 2982 +.10

DIETZGEN NO. 385-5

DIETZGEN NO. 385-5

1968
MAIN # 2

GAGE	DISCH.	GAGE	DISCH.
0.70	0	3.50	975
.80	20	.60	1030
.90	35	.70	1085
1.00	50	.80	1145
.10	75	.90	1205
.20	100	4.00	1275
.30	120	.10	1350
.40	150	.20	1425
.50	175	.30	1500
.60	200	.40	1580
.70	230	.50	1655
.80	260	.60	1730
.90	290	.70	1805
2.00	320	.80	1880
.10	350	.90	1965
.20	380	5.00	2050
.30	420	.10	2145
.40	460	.20	2240
.50	495	.30	2345
.60	530	.40	2450
.70	575	.50	2562
.80	620	.60	2675
.90	670	.70	2787
3.00	720	.80	2900
.10	765	.90	3015
.20	815	6.00	3130
.30	865	.10	3252
.40	920	.20	3375
.50	975	.30	3500
		.40	3625

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C Head 1960

Gage	Disch.	Gage	Disch.
.60	0.0	3.60	363
.70	3.0	.60	381
.80	7.0	.70	400
.90	11.0	.80	418
1.00	15.0	.90	437
.10	20.0	4.00	455
.20	26.0	.10	474
.30	32.0	.20	492
.40	39.0	.30	511
.50	47.0	.40	529
.60	56.0	.50	548
.70	66.0	.60	567
.80	76.0	.70	586
.90	87.0	.80	605
2.00	98.0		
.10	111.0	1966	
.20	126.0	6/10 4.10 = 492.5	+1.0
.30	142.0	6/22 4.29 = 523.7	+1.09
.40	159.0	7/17 4.62 = 581.0	+1.06
.50	178.0	7/30 4.72 = 605.5	+1.08
.60	196.0	8/29 4.12 = 475.7	+1.01
.70	215.0	9/1 4.10 = 476.0	+1.01
.80	233.0	1967	
.90	252.0	6/5 4.01 = 467	+1.07
3.00	270.0	6/23 3.73 = 408	+1.01
.10	289.0	7/17 4.50 = 565	+1.08
.20	307.0	7/27 4.32 = 545	+1.02
.30	326.0	8/18 4.18 = 542	+1.01
.40	344.0		
.50	363.0	1978	
		5/16 4.11 = 516	+1.02
		6/15 4.03 = 511	+1.04
		7/23 4.14 = 524	+1.12
		8/26 3.61 = 474	+1.08

1969			
5/13	3.94 = 453	+0.5	
6/9	4.21 = 506	+0.6	
7/10	4.32 = 529	+0.8	
8/14	4.29 = 515	+0.3	
	1970		
6/24	4.00	468.00	
1978			
5/3	2.60 = 192	-.01	

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0011 1990

B

1968

Page Disch.

.50 1.4
 .60 2.1
 .70 2.8
 .80 3.8
 .90 4.8
 1.00 5.8
 .10 6.8
 .20 8.0
 .30 9.1
 .40 10.3
 .50 11.6
 .60 12.9
 .70 14.2
 .80 15.4
 .90 16.7
 2.00 18.0
 .10 19.4
 .20 20.7
 .30 22.1
 .40 23.4
 .50 24.8
 .60 26.2

DIETZGEN NO. 385-S

1967

6/16 2.15 = 15.9 - .32
 6/26 2.56 = 21.4 - .31
 7/20 2.58 = 18.8 - .10
 8/14 2.30 = 22.4 - .02

1968

3/16 3.82 = 22.9 - .04
 6/15 2.60 = 24.0 - .16
 6/15 2.88 = 23.8 - .41
 7/13 2.46 = 24.4 - .01
 8/26 1.61 = 7.5 - .47
 1.14 = 11 - .06

1969

4/30 1.79 = 12.3 - .23
 5/13 2.19 = 12.9 - .20
 5/19 2.52 = 28.0 - .29
 6/2 2.87 = 27.0 - .42
 6/30 2.24 = 21.1 - .01
 7/22 2.42 = 24.1 - .03

1970

6/5 2.37 = 23.7 - .07

1971

5/12 2.14 = 17.4 - .15

1977

6/23 2.05 = 15.1 - .16
 7/29 2.46 = 22.43 - .03

1966

6/10 3.24 = 25.8 - .77
 6/23 2.50 = 22.9 - .14
 7/11 3.26 = 29.4 - .64
 8/5 2.28 = 19.3 - .15
 8/15 2.30 = 16.2 - .46
 8/29 2.78 = 19.1 - .70

OCT

**STARTING
RIGHT
SIDE OF
FILE**

RECEIVED

AUG 25 1997

Department of Water Resources

August 21, 1997

KariLynn Townsend
Department of Water Resources
1301 North Orchard
Boise, Idaho 83706

Dear Ms. Townsend:

Confirming our conversation this morning, please be advised that the current mailing address for S.E. Hazelton is:

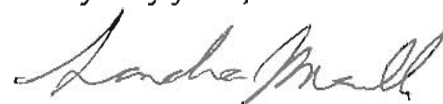
450 Lexington Avenue
37th Floor
New York, NY 10017
Telephone: 212-450-9000

You may also wish to check your records for El Dorado Hydro and Bypass, Ltd., which are also located at this address.

WR#s 01-07084B
01-07010B
28-07150B
78-07154
78-07188
78-07254

} all files updated
for address correction
on WR 2.
8.26.97
Kari Lynn

Very truly yours,



Sandra J. Manilla
Treasurer

SCANNED

JUN 05 2003

18-Nov-1988

Bypass Limited
885 3rd Ave., Suite 3040
New York, New York 10022

RE: Application No. 01-7010B

Gentlemen:

We acknowledge receipt of the affidavit submitted as proof of beneficial use for the above referenced permit.

Before a license can be issued, a field examination must be made by a representative of this Department. We cannot tell just when this examination will be made, but our examiner will try to contact you at the time he makes the examination so that you may show him the system.

Field examinations must be done while the system is in operation. For this reason we concentrate on irrigation permits during the summer months and do examinations on permits for other uses during the non-irrigating months.

If you have any questions regarding the field examination, please contact our office.

Very truly yours,

Twylla Jasper
Clerk

Encl:

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OCT 18 1990

1/88

PROOF OF BENEFICIAL USE

ANALYSIS SHEET

Permit No. 01-7010B

Date: 9/23/88

General Considerations:

Y Name same as permit
Y Signature the same as permit holder
N Address change _____ If yes, prepare a data entry
Y Proof received timely _____
_____ Reinstated

Source of Water:

Y Surface water
_____ Groundwater
_____ 1. well log in file
_____ 2. drilling permit
_____ A. amount of drilling fee paid for proposed uses

Extent of Use and Rate of Diversion:

Y Rate of diversion appropriate for uses
N/A Is rate or volume and fee appropriate?
Y Has permit holder indicated when water was first put to a beneficial use?

Measuring Device:

Y Is a measuring device or access port required?
Y Has one been installed?
N/A Waiver or modification of measuring device requested

Remarks:

Proof acceptable

N/A Priority Calculation:

Date proof received	_____	_____
Date proof due	_____	_____
No. of days late	_____	= _____
Priority date	_____	+ _____
NEW PRIORITY DATE	_____	= _____

SEND FILES TO DATA ENTRY AND THEN TO MICROFILM

RECEIVED

JUL 1 1988

Department of Water Resources
Southern Region Office

June 30, 1988



CHARLES
BROCKWAY
ENGINEERING

Mr. Loren Holmes
Idaho Department of Water Resources
2148 4th Avenue East
Twin Falls, Idaho

Subject: Beneficial Use Field Exam Permit 01-7010B
ByPass Hydro Plant,
Northside Canal Company

Dear Loren:
Enclosed is the completed Form 219, Beneficial Use
Field Report, for the Bypass Hydro Plant on the
Northside Canal.
The Exam was completed on June 9, 1988.

Sincerely,

C. E. Brockway, P.E.

CEB:
cc Sithe Energies Inc
Northside Canal Co

CHARLES E.
BROCKWAY,
PhD., P.E.

706 SUNRISE
BOULEVARD
NORTH

TWIN FALLS,
IDAHO 83301

208•733•0938

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Form 217
03/86

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JUL 1 1988

Department of Water Resources
Southern Region Office

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

For Office Use Only
Fee Received N/A
Date 7/1/88
Receipt # N/A
Received by JS
Reviewed by JS
Sent to region 7/1/88
S.O.

The Idaho Department of Water Resources will consider this form as a statement that the permit holder(s) has completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee or a completed field examination report prepared by a certified water right examiner who has been appointed by the department.

Permit No. 01-7010B (Bypass Project)

Name(s) of Permit Holder: Bypass Limited, an Idaho limited partnership (Assigned by NSOC 4/27/88)

Post Office Address: 885 Third Avenue, Suite 3040, New York, New York 10022

Telephone No. (212) 230-2100

Source of Water: Snake River into North Side Canal Company Main Canal and North Side's water diverted into Milner-Gooding Canal--returned to NSOC Main Canal through Bypass Canal.

Extent of Use:

Domestic _____ (number of households) Stockwater _____ (number and type of stock)

Irrigation _____ (acres) Other/Remark Hydropower

(Water is diverted for irrigation and stock water under established rights. Hydropower is an additional use to those rights and in own right hereunder.)

Total rate and/or volume for which proof is submitted 3,000 cfs _____ acre-feet

Show the date water was first diverted and beneficially used under this permit: May 1988

Measuring Device: Required? X Yes _____ No
Installed? X Yes _____ No

Certified examiner's report
Fee enclosed \$ _____ attached
(See License Examination Fee Schedule)

Flow Measurement Port: Required? _____ Yes _____ No
Installed? _____ Yes _____ No

Person to contact to accompany the Department representative during the field examination:

(Name)

(Telephone Number)

(Address)

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OCT 18 1990

The above information is my true statement of the extent to which the above numbered permit has been developed. ~~and I will indemnify any undeveloped portion of the permit to the State of Idaho.~~

BYPASS LIMITED

BY: Sherry R. Duker, Operations Manager

Signature of Permit Holder (and title, if appropriate)

Date

6-29-88

Sithe-Energies U.S.A. inc.

A Member of the Sithe/Energies Group

Boise Office
10464 Garverdale Court, Suite 710

Boise, Idaho 83704

Telephone (208) 375-1106
Telecopier (208) 375-1125

RECEIVED RECEIVED

June 2, 1988

JUN 6 1988

JUN 10 1988

Department of Water Resources
Southern Region Office

Department of Water Resources

State Department of Water Resources
2148 4th Avenue E.
Twin Falls, Idaho 83301

Reference: Permit No. 01-7010B

Subject: Proof Due Notice

Dear Sir:

This letter is to notify the Department that Bypass Limited has retained the services of a certified water rights examiner, Dr. Chuck Brockway.

The Proof of Beneficial Use will be completed prior to July 1, 1988.

If you should have any questions, please feel free to contact me.

Sincerely,

BYPASS LIMITED



Sherry Huber
Operations Manager

cc: Rich Kessel
Denise Sarris
Rita Fleck

410.01A

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OCT 18 1988

C. E. BROCKWAY P. E.
ENGINEERING CONSULTANT

Groundwater, Hydrology,
and Hydraulic Engineering

RECEIVED

706 Sunrise Blvd. N.
Twin Falls, Idaho 83301 733-0938

JUN 8 1988

Department of Water Resources
Southern Region Office

June 2, 1988

Mr. Loren Holmes
Idaho Department of Water Resources
Southern District
2148 4th Avenue East
Twin Falls, Idaho 83301

RECEIVED
JUN 10 1988

Subject: Proof of Beneficial Use Permit No. 01-7010B
Northside Canal Company Bypass Power Plant

Department of Water Resources

Dear Loren:

I have been retained by Sithe Energies to perform the examination for proof of beneficial use on this permit.

It is planned to perform the exam in connection with the final acceptance tests to be conducted on June 8 or 9, 1988.

Sincerely,



C. E. Brockway, P.E.

CEB:
cc Sithe Energies

MICROFILMED

OCT 18 1990

138493
CERTIFIED MAIL
April 30, 1988

BYPASS LIMITED
885 THIRD AVE., SUITE 3040
NEW YORK, NY 10022

PROOF DUE NOTICE

RE: Permit No. 01-7010B

Dear Permit Holder:

One of the conditions of approval of the above referenced water permit was that proof of the extent of your beneficial use must be submitted to this office on or before July 1, 1988. (See last page of your approved permit or your last approved extension request.) Enclosed is a form which when accompanied by the license examination fee or a completed field examination report prepared by a certified water right examiner may be used to submit the required proof.

If you have not fully completed your project, and you or a previous owner of this permit have not received a prior extension of time, you may request an extension of time if the delay is for reasonable cause as provided in Section 42-204, Idaho Code. If you have been prevented from proceeding by a governmental agency or by litigation which might bring title to the water in question, more than one extension of time can be granted. An extension of time request form is enclosed for your convenience.

Either an acceptable proof of beneficial use submittal or an acceptable request for an extension of time must be received by this Department on or before the above described proof due date, or the permit will no longer be of any force nor effect.

Sincerely,

RITA FLECK
Secretary/Records Manager

Enclosures

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OCT 18 1990