

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 29-7437
Original Exam Date: 6/30/1989

1. Current Owner: J R SIMPLOT CO
C/O TERRY UHLING
999 MAIN ST STE 1300
BOISE ID 83707
(208)336-2110

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. SOURCE

TRIBUTARY

WASTE WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: See place of use comparison spreadsheet
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

WASTE WATER

NW1/4SE1/4

Sec. 7, Twp 06S, Rge 34E, B.M.

POWER County

Method of Determination: Aerial photography and 1989 field exam.

PLACE OF USE: IRRIGATION STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05S	34E	25											X	X					
05S	34E	36					X	X											

Method of Determination: Aerial photography and data provided by Simplot.

PLACE OF USE: IRRIGATION and IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05S	34E	25	23.0	20.0	40.0	37.0	6.0			22.0	19.0	1.2	.4	14.0	36.0	37.0	40.0	34.0	329.6
05S	34E	31					34.0	32.0	14.0	40.0									120.0
							L 1	L 2											
05S	34E	35				2.7									.8			11.0	14.5
05S	34E	36	35.0	40.0	36.0	35.0	14.0		33.0	20.0	29.0	23.0	29.0	11.0	33.0	31.0	33.0	39.0	441.0
05S	35E	30	26.0	40.0	40.0	11.0	40.0	36.0	35.0	40.0									268.0
							L 1	L 2											
06S	34E	1	24.0	28.0	40.0	40.0	38.0	35.0	28.0	38.0									271.0
			L 1	L 2			L 3	L 4											
06S	34E	2	14.0			20.0													34.0
			L 1																
06S	34E	7											5.3	4.5		.3			10.1
													L 7						
06S	34E	8					4.9	20.0	16.0	26.0	26.0	30.0	11.0	38.0		3.8			175.7
							L 3	L 4	L 5	L 6	L 11	L 12	L 13	L 14		L 15			
06S	34E	17		4.0			3.0												7.0
06S	34E	18					3.4												3.4
06S	35E	6						9.1	31.0										40.1
								L 4	L 5										

Total Acres: 1714.4

Method of Determination: Aerial photography and data provided by Simplot.

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.

D. FLOW MEASUREMENTS

Measurements: Field examiner did not obtain a flow measurement from waste water point of diversion.

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: Waste water is first discharged through a channel and into multiple ponds. Based on the field examiners delivery system diagrams and pictures of the waste water delivery system it appears that the capacity of the delivery system exceeds 4.25 cfs. This permit will be licensed for 4.25 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1,714.4 \times 4.0 = 6,857.6 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1,804.0 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 1,804.0 \text{ af}$$

2. Volume Calculations for Other Uses:

Irrigation storage volume is based on dam safety report. According to the report the storage capacity of the reservoir is 860.0 acre-feet.

G. NARRATIVE/REMARKS/COMMENTS

This field report is based on a partially completed field exam conducted on 6/30/1989 and information obtained from the J R Simplot Company. According to the 1989 field exam, wastewater from Simplot's Pocatello facility is discharged through a pipe into a series of retention ponds where the water is treated. From the retention ponds the wastewater is delivered through a pipeline to farm ground and/or delivered to an 860 acre-foot storage reservoir. From the storage reservoir the waste water is delivered through a pipeline to farm ground. The place of use was determined by using aerial photography and data provided by Simplot.

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>
IRRIGATION	04/01 to 10/31	4.250 CFS	1,804.00 AF
IRRIGATION STORAGE	01/01 to 12/31		860.00 AF
IRRIGATION FROM STORAGE	04/01 to 10/31		860.00 AF
DIVERSION TO STORAGE	01/01 to 12/31	4.250 CFS	860.00 AF
<u>Totals:</u>		4.250 CFS	2,664.00 AF

2. Recommended Amendments

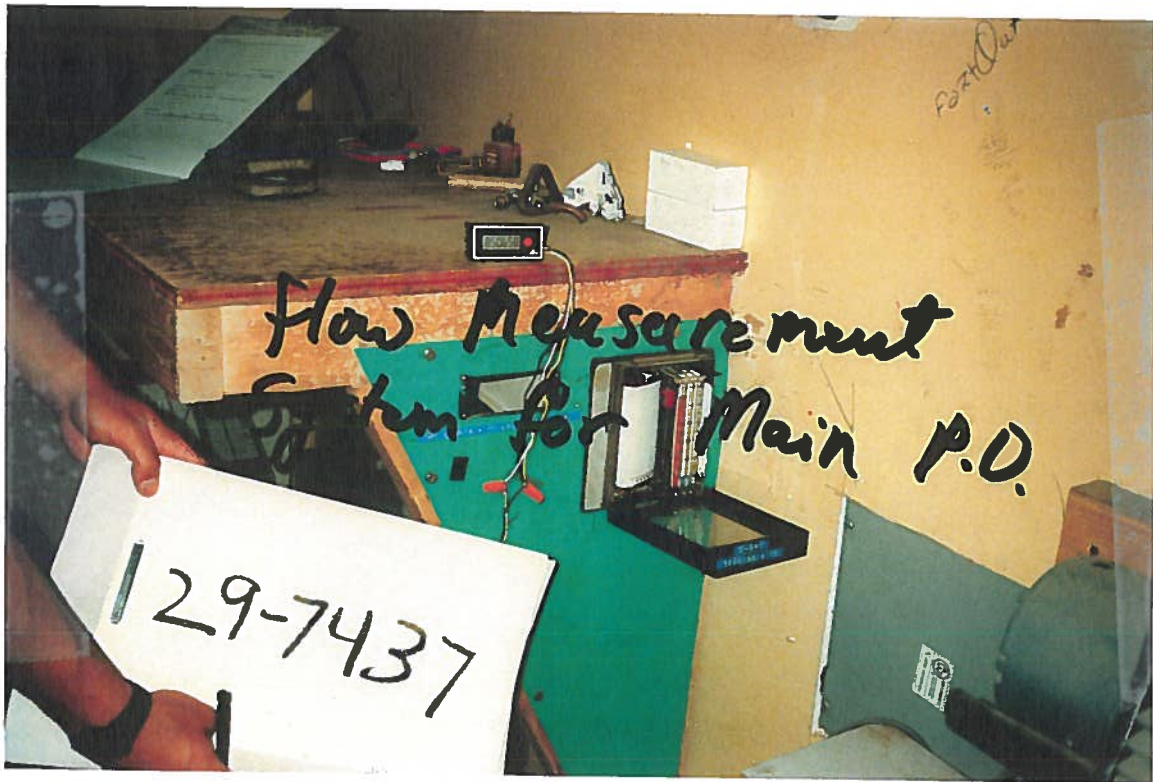
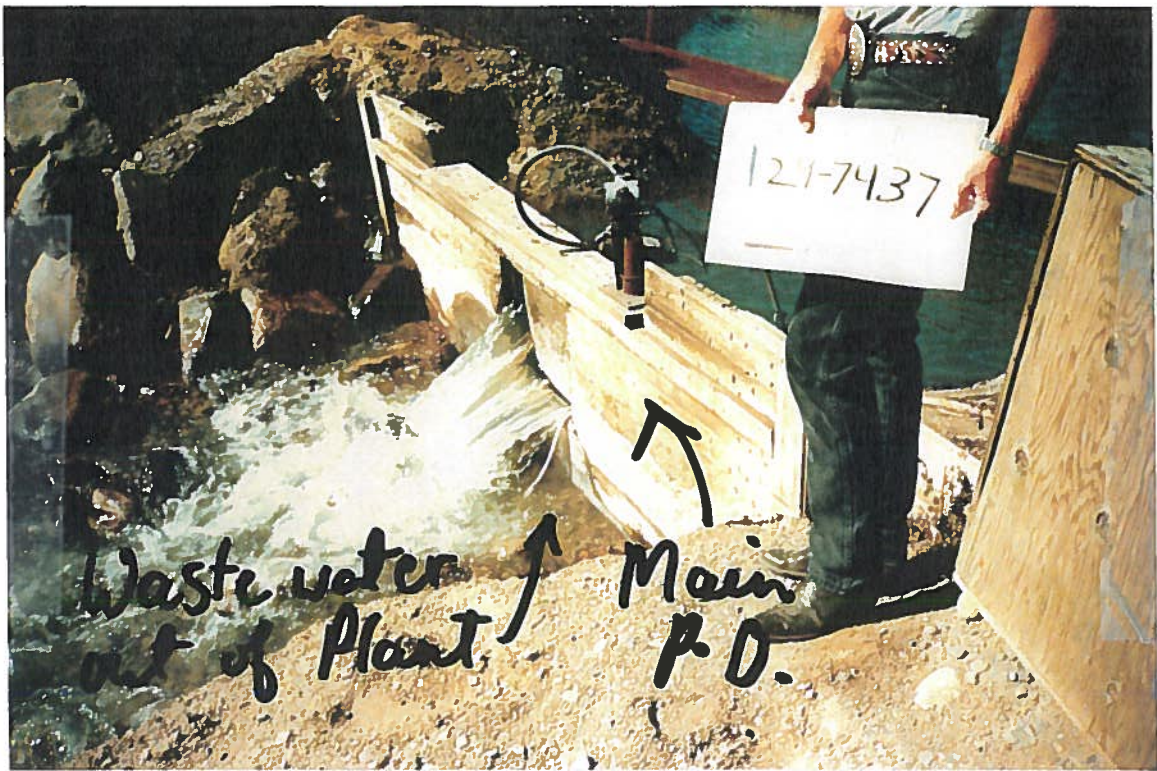
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

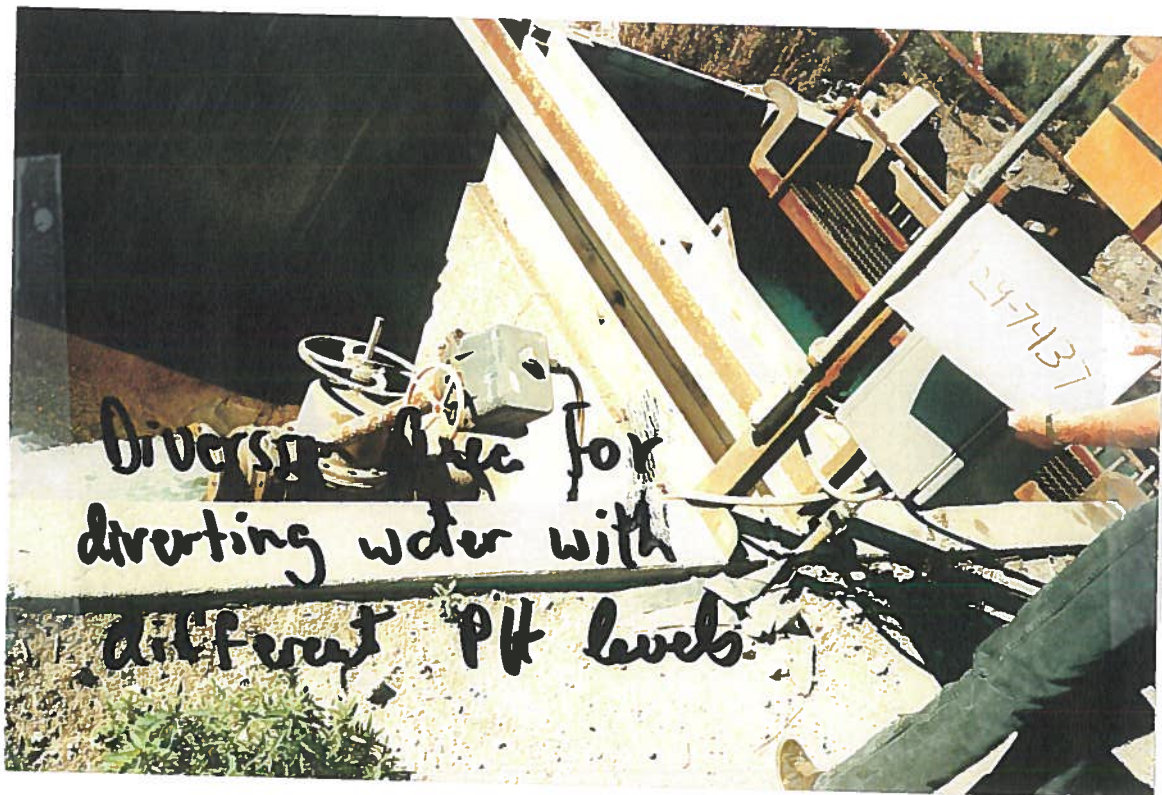
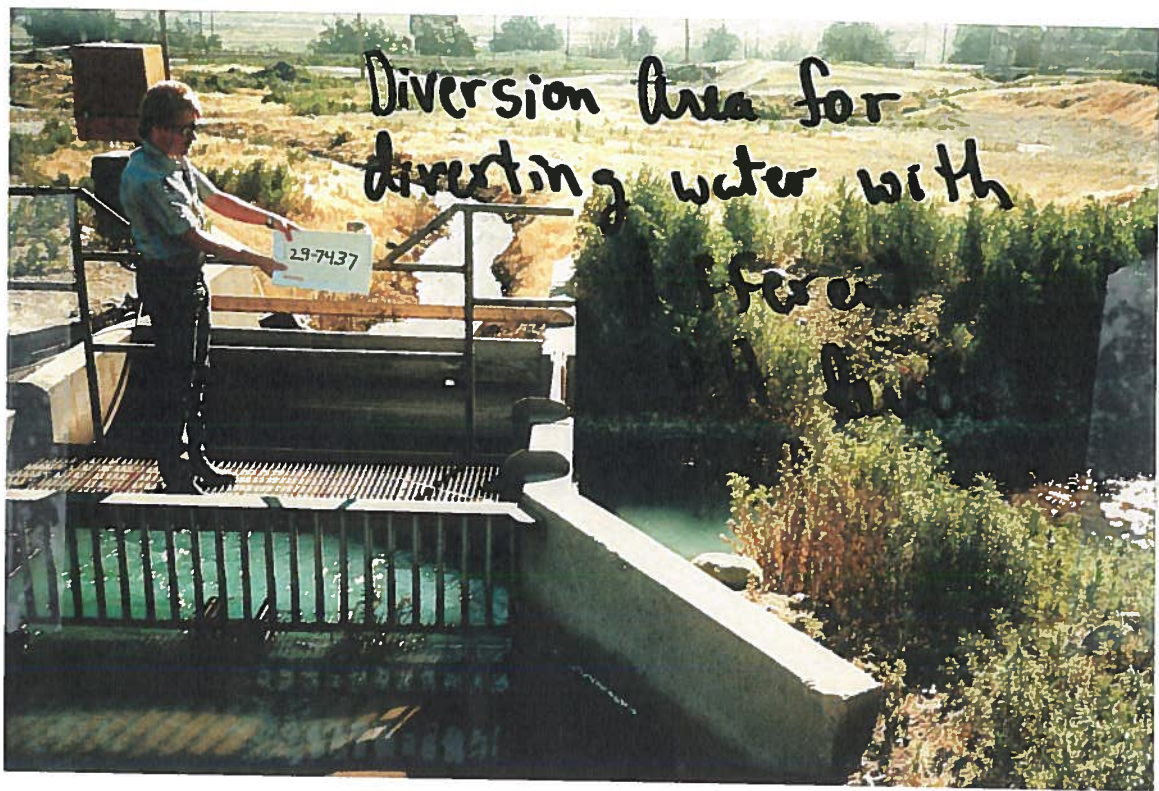
☒ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

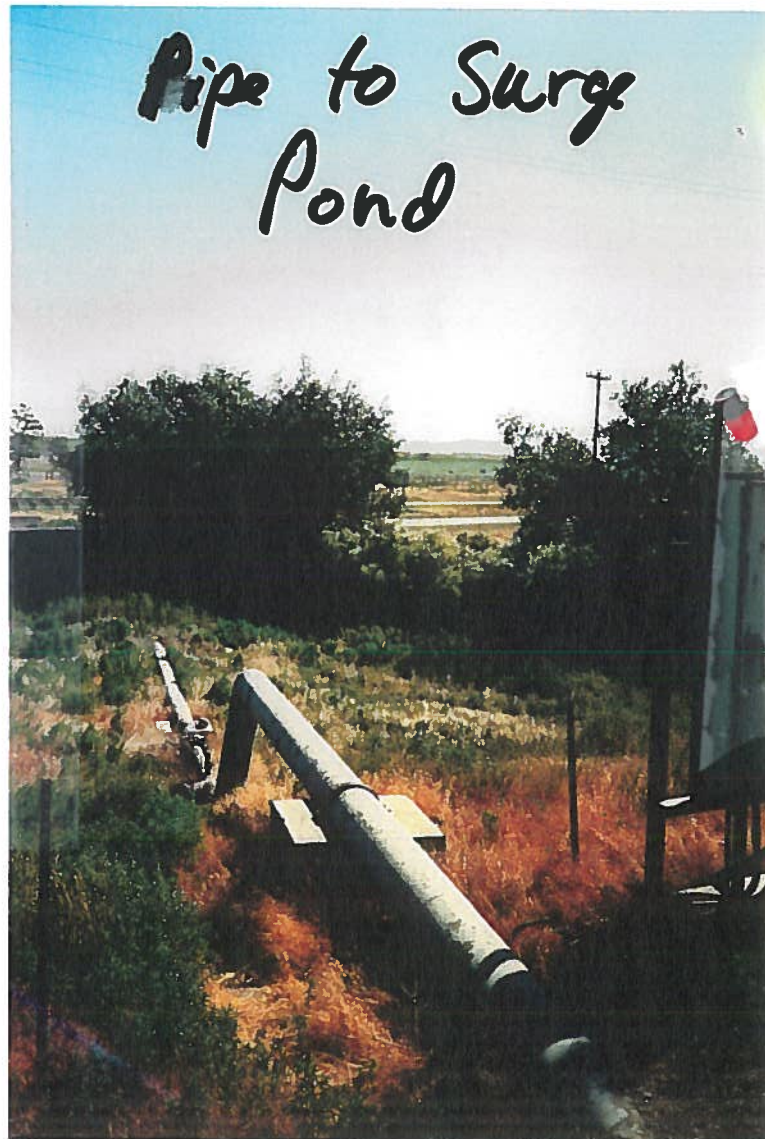
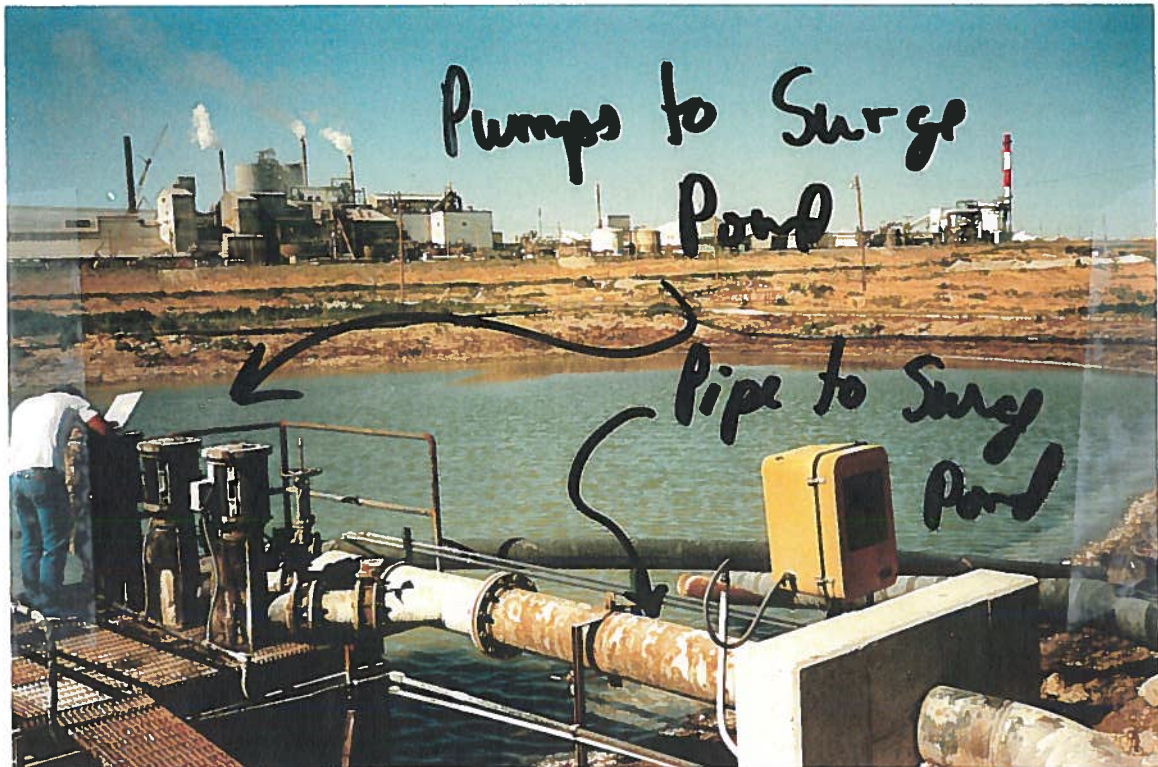
I. AUTHENTICATION

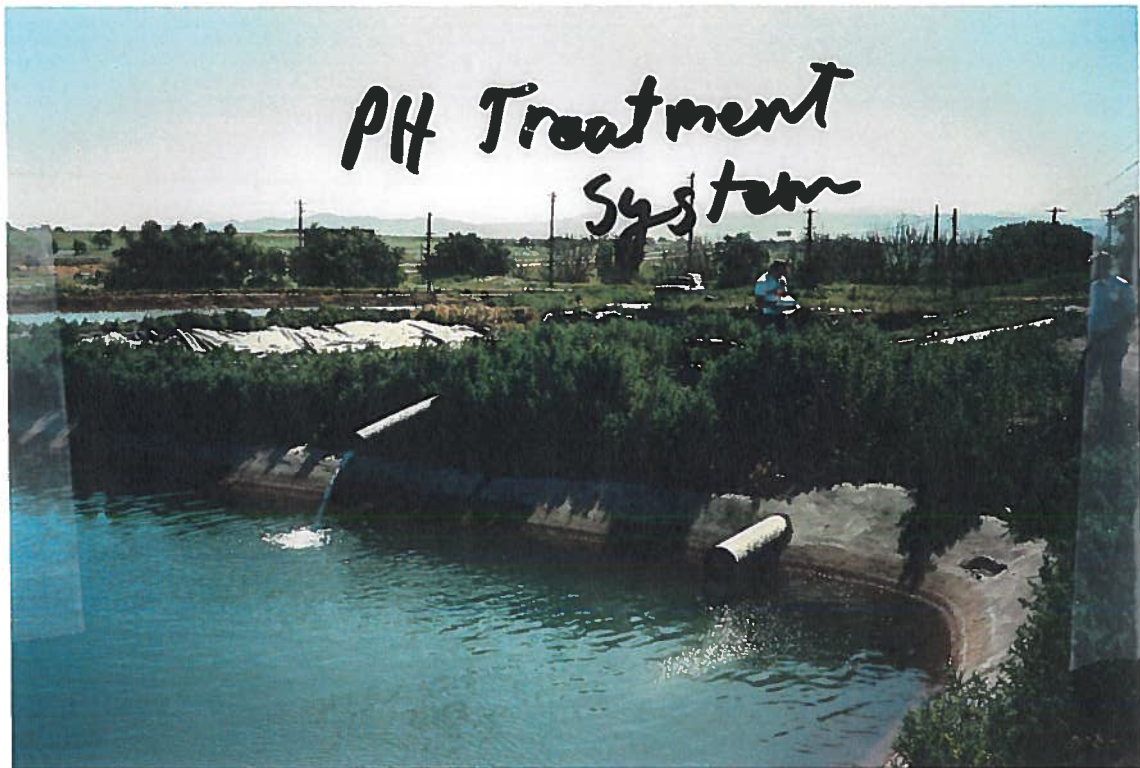
Field Examiner's Name Blake Jordan Date 10/9/2014

Reviewer _____ Date _____

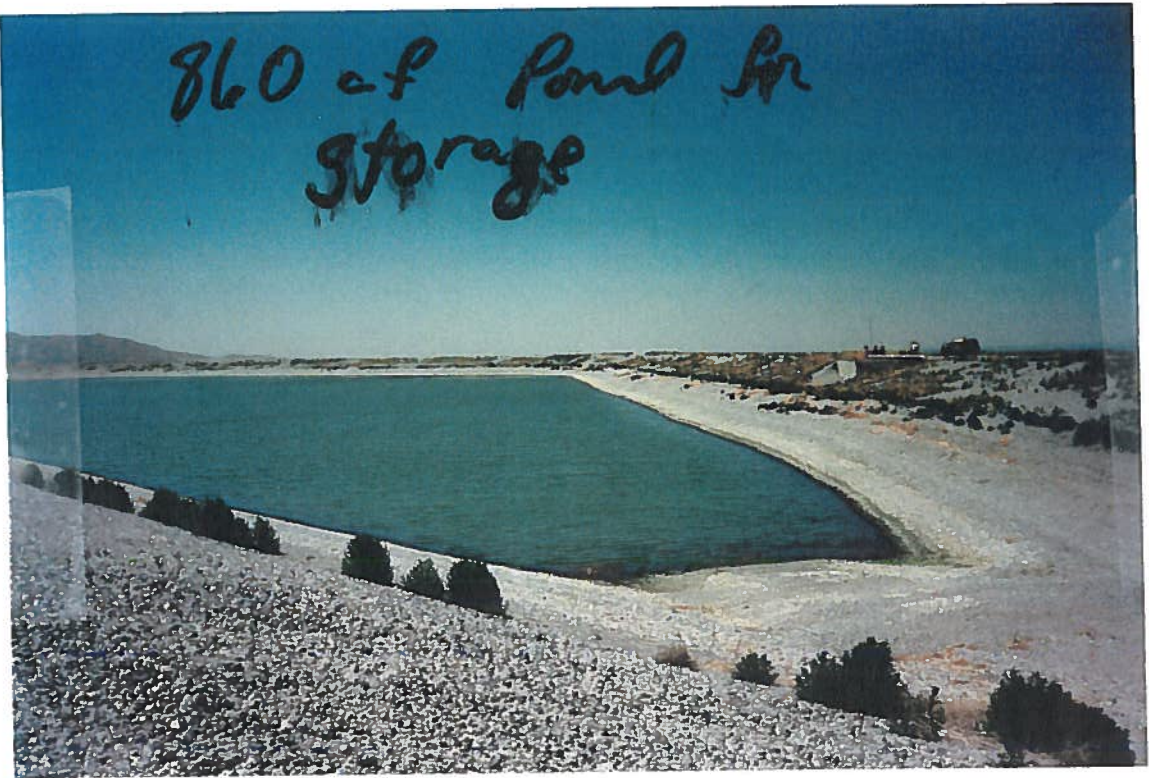




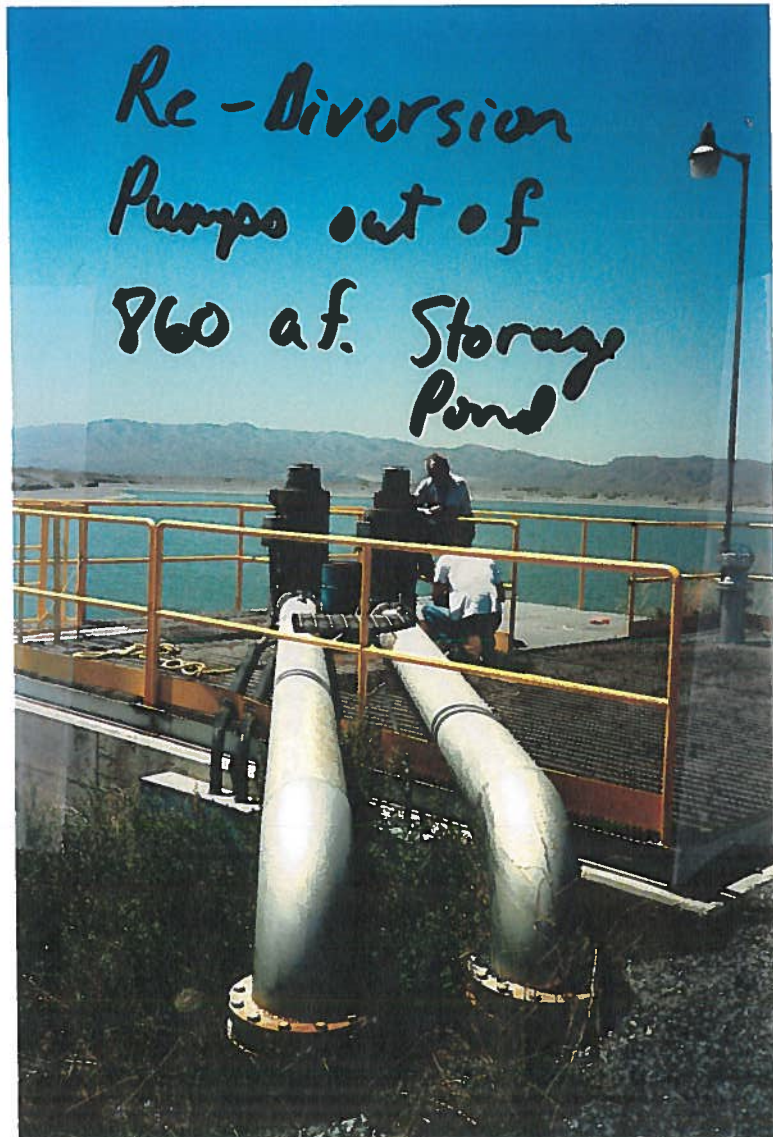




860 a.f. Pond for
Storage



Re-Diversion
Pumps out of
860 a.f. Storage
Pond



Place of Use Comparison

[illegible]

	Basin Sequence	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	SWSE	SESE	Total Acres
	29-2049	MOUNTAIN VIEW FARMS INC	TWO AND A HALF MILE CREEK	POU	20.0	40.0	40.0								100
	29-2371	MOUNTAIN VIEW FARMS	GROUND WATER	POU	24.0	40.0	40.0	10.0	40.0	31.0	35.0	40.0			260
	29-2375	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			0
	29-2501	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			0
	29-2502	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			0
	29-7431	CITY OF POCATELLO	WASTE WATER	POU		5.0	7.0		40.0	33.0	38.0	39.0			162
	29-7437	J R SIMPLOT CO	WASTE WATER	POU	26.0	40.0	40.0	11.0	40.0	36.0	35.0	40.0			268
	29-7763	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			0

Basin Sequence	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	Total Acres
29-13143	HAROLD L RUPP SR TRUST; RUPP,	GROUND WATER	POU		16.5	18.5		37.0	37.0	32.0	39.0	180
29-13144	HAROLD L RUPP SR TRUST; RUPP,	GROUND WATER	POU		16.5	18.5		37.0	37.0	32.0	39.0	180
29-2292	HAROLD L RUPP SR TRUST; RUPP,	GROUND WATER	POU		16.5	18.5		37.0	37.0	32.0	39.0	180
29-7437	J R SIMPLOT CO	WASTE WATER	POU	24.0	28.0	40.0	40.0	38.0	35.0	28.0	38.0	271

Basin Sequence	Owner	Source	POD/POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	Total Acres
29-10607	BRISCOE, FRANKLIN; BRISCOE, MARGARET	GROUND WATER	POU							X		0
29-10676	ZWEIGART, RICHARD	GROUND WATER	POU					X				0
29-10826	SCARDINO, ANDREW G	GROUND WATER	POU					X				0
29-10827	SCARDINO, ANDREW G; SCARDINO, MARIAN	GROUND WATER	POU					X				0
29-10939	GOODLIFFE, ARNOLD J; GOODLIFFE, BECKY B	GROUND WATER	POU							X		0
29-10954	GERTSCH, MARK	GROUND WATER	POU								X	0
29-13143	HAROLD L RUPP SR TRUST; RUPP, HAROLD L	GROUND WATER	POU	16.0			21.0					37
29-13144	RUPP SR TRUST; RUPP, HAROLD L	GROUND WATER	POU	16.0			21.0					37
29-2292	RUPP SR TRUST; RUPP, HAROLD L	GROUND WATER	POU	16.0			21.0					37
29-2419	HALLINAN, KAYE; JENSEN, GARY L; JENSEN, GORDON L; JENSEN, J LYLE; JENSEN, M LEROY;	GROUND WATER	POU	3.7	35.9	38.7	4.0	7.3			15.0	104.6
29-7437	J R SIMPLOT CO	WASTE WATER	POU	14.0			20.0					34

Basin Sequence	Owner	Source	POD/POU	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
24-7113	J R SIMPLOT CO	GROUND WATER	POU					X				X					0
27-2138	J R SIMPLOT CO	GROUND WATER	POU					X				X		X	X		0
29-11278	ROWLANDS INC	GROUND WATER	POU														0
29-13955	ROWLANDS INC	BATISTE SPRING	POU														1.1
29-13955	ROWLANDS INC	BATISTE SPRING	POU		28.0	30.0											62.8
29-13956	ROWLANDS INC	GROUND WATER	POU														2
29-2020	J R SIMPLOT CO	GROUND WATER	POU									X		X	X		0
29-2225	J R SIMPLOT CO	GROUND WATER	POU									X		X	X		0
29-2375	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0
29-2501	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0
29-2502	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0
29-4088	J R SIMPLOT CO	GROUND WATER, PORTNEUF RIVER	POU										12.0			3.4	15.4
29-7437	J R SIMPLOT CO	WASTE WATER	POU									5.3	4.5		0.3		10.1
29-7763	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0

Basin Sequence	Owner	Source	POD/ POU	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
24-7113	J R SIMPLOT CO	GROUND WATER	POU					X				X					0
27-2138	J R SIMPLOT CO	GROUND WATER	POU					X				X		X	X		0
29-11278	ROWLANDS INC	GROUND WATER	POU														0
29-13955	ROWLANDS INC	BATISTE SPRING	POU														1.1
29-13955	ROWLANDS INC	BATISTE SPRING	POU		28.0	30.0											62.8
29-13956	ROWLANDS INC	GROUND WATER	POU														2
29-2020	J R SIMPLOT CO	GROUND WATER	POU									X		X	X		0
29-2225	J R SIMPLOT CO	GROUND WATER	POU									X		X	X		0
29-2375	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0
29-2501	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0
29-2502	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0
29-4088	J R SIMPLOT CO	GROUND WATER, PORTNEUF RIVER	POU										12.0			3.4	15.4
29-7437	J R SIMPLOT CO	WASTE WATER	POU									5.3	4.5		0.3		10.1
29-7763	J R SIMPLOT CO	GROUND WATER	POU	X				X				X	X	X	X	X	0

Basin Sequence	Owner	Source	POD/ POU	NENW	NWNW	SWNW	SEnw	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
29-2501	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			X		0
29-2502	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			X		0
29-4088	J R SIMPLOT CO	GROUND WATER, PORTNEUF RIVER	POU					26.0	31.0	20.0	38.0			3.6		118.6
29-4312	J R SIMPLOT CO	GROUND WATER	POU				X									0
29-4313	J R SIMPLOT CO	GROUND WATER	POU				X									0
29-7437	J R SIMPLOT CO	WASTE WATER	POU	4.9	20.0	16.0	26.0	26.0	30.0	11.0	38.0			3.8		175.7
29-7763	J R SIMPLOT CO	GROUND WATER	POU	X	X	X	X	X	X	X	X			X		0

Basin Sequence	Owner	Source	POD/ POU	NENE	NWNE	SWNE	SENE	NENW	NESE	NWSE	SWSE	SESE	Total Acres
29-10927	J R SIMPLOT CO	PORTNEUF RIVER	POU		1.6	6.0		0.3	3.4	2.8		2.1	16.2
29-2375	J R SIMPLOT CO	GROUND WATER	POU		X			X					0
29-2501	J R SIMPLOT CO	GROUND WATER	POU		X			X					0
29-2502	J R SIMPLOT CO	GROUND WATER	POU		X			X					0
29-4088	J R SIMPLOT CO	GROUND WATER, PORTNEUF RIVER	POU		9.0			3.6					12.6
29-7437	J R SIMPLOT CO	WASTE WATER	POU		4.0			3.0					7
29-7763	J R SIMPLOT CO	GROUND WATER	POU		X			X					0

CHAPTER 1

GENERAL

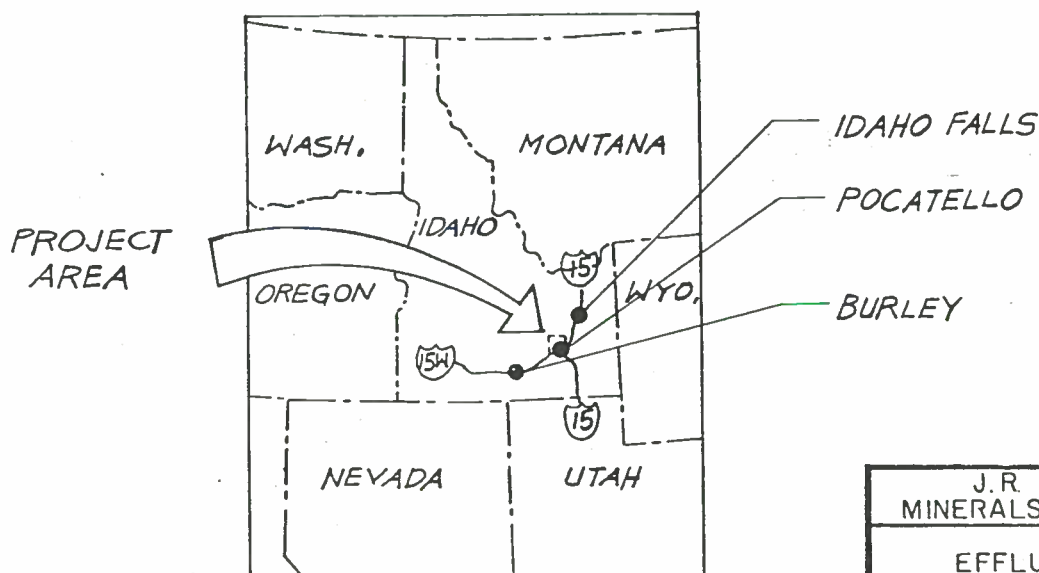
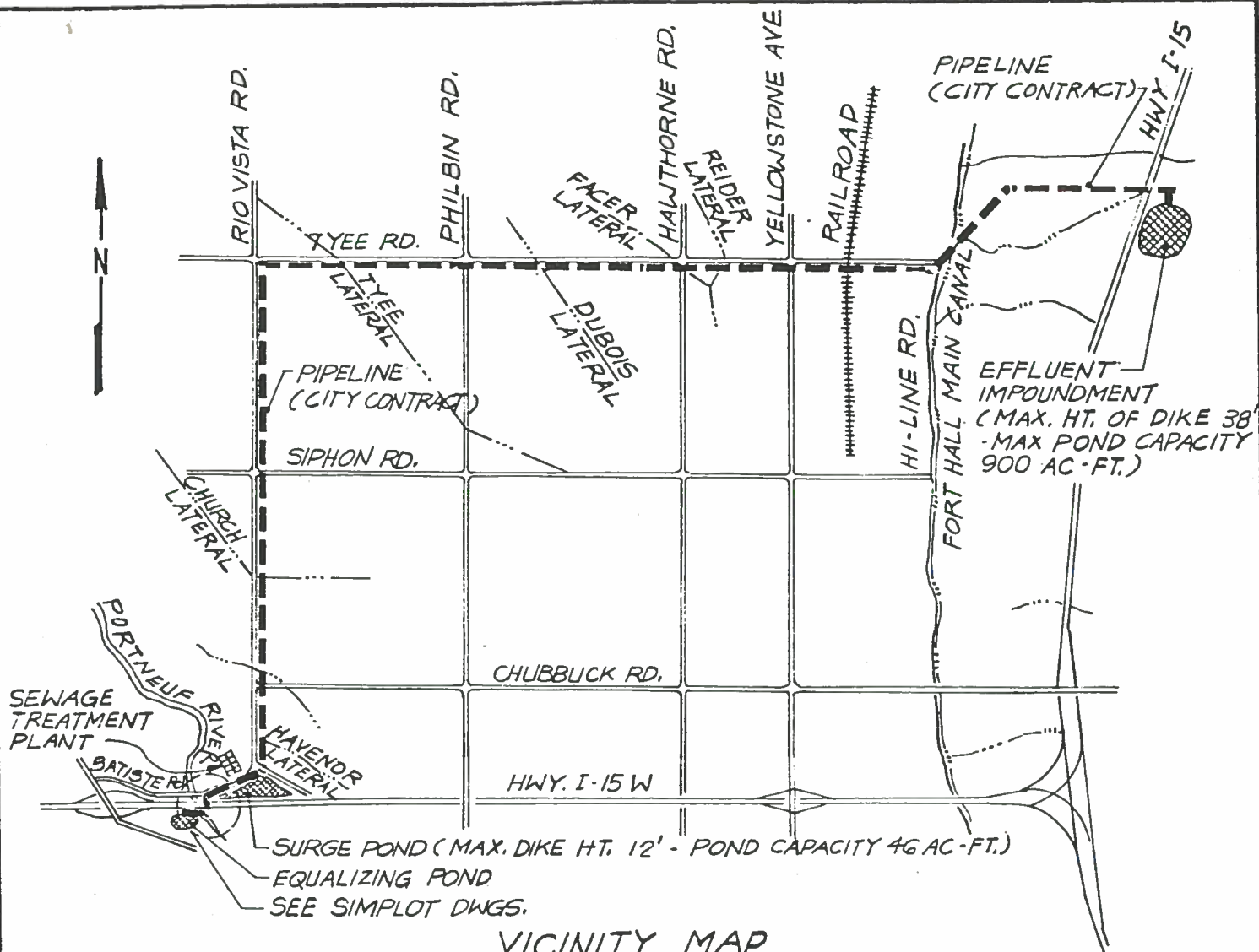
1.1 PROJECT DESCRIPTION

The J. R. Simplot Effluent Impoundment Pond is part of the Pocatello Effluent Irrigation System that provides water for farm land irrigation. The water is a combination of plant effluent water from the J. R. Simplot Company fertilizer plant and domestic waste water from the City of Pocatello secondary sewage treatment facility. The irrigation system consists of a surge pond near the Simplot plant, a pumping station, approximately six miles of underground piping, and a main impoundment for the storage of Simplot effluent.

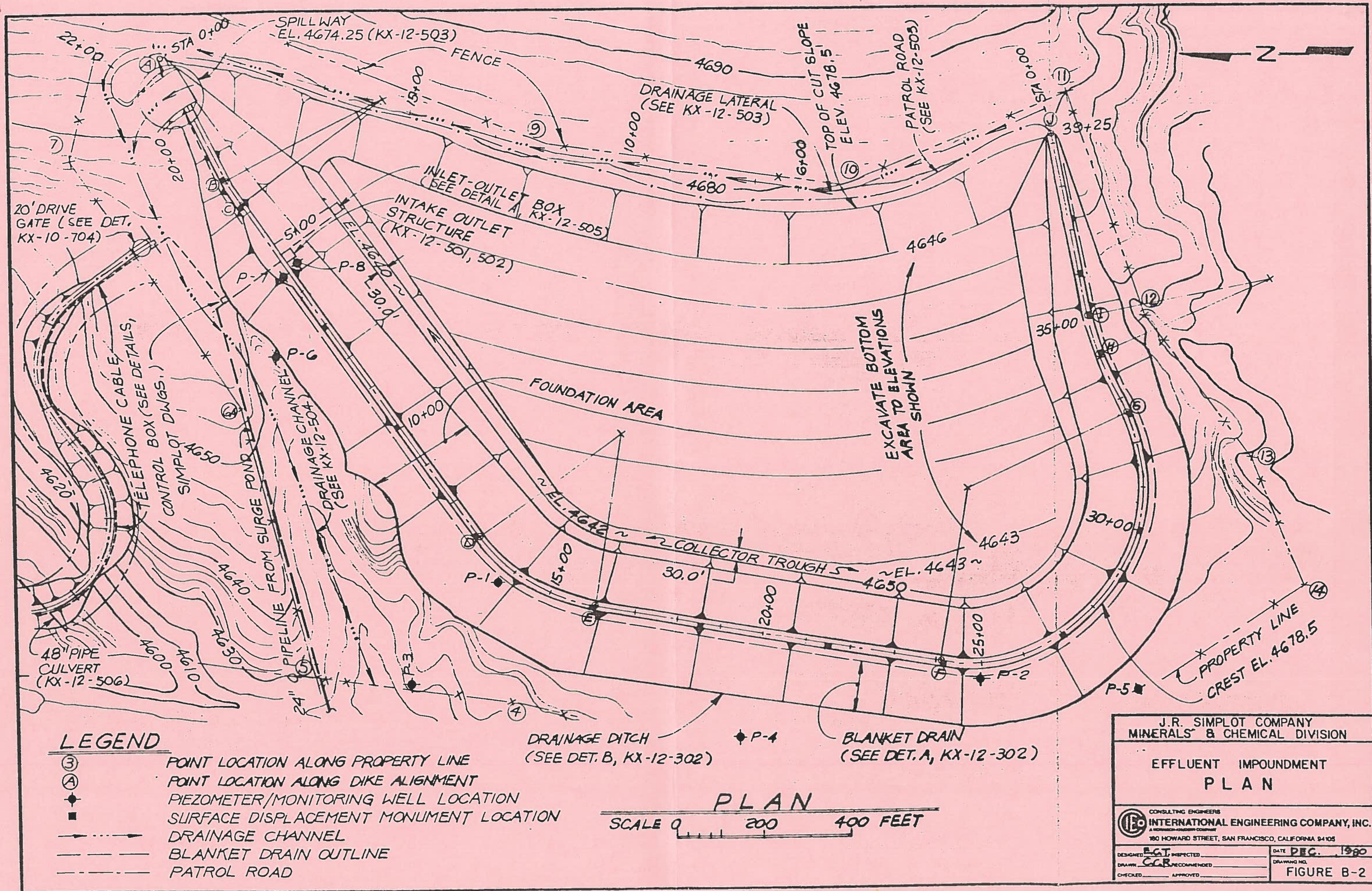
The J. R. Simplot Company plant is located about three miles northwest of Pocatello, Idaho just south of Interstate Highway I-86 near the Portneuf River. The surge pond is located to the northeast of the plant across the highway and to the east of the Portneuf River, and the site for the impoundment reservoir is located about four miles north of Pocatello and east of Interstate Highway I-15. The site plan and vicinity map are shown on Figures B-1 and B-2 in Appendix B.

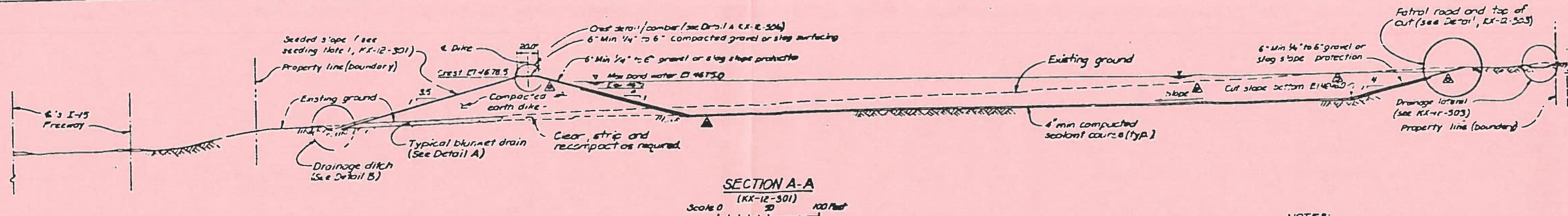
The embankment for the impoundment reservoir was constructed

with native materials obtained from excavation for the reservoir. Appurtenant structures consist of an inlet and outlet structure necessary for piping connections and an emergency spillway. An access road connects the impoundment reservoir to 2½ Mile Road. A drainage lateral along the hillside east of the impoundment reservoir is used to divert runoff water into the drainage channel on the north side of the reservoir. Main sections and details of the embankment and appurtenant structures are shown on Figures B-3 through B-5. Pertinent engineering data for the impoundment reservoir are presented in Table 1 shown on the next page.

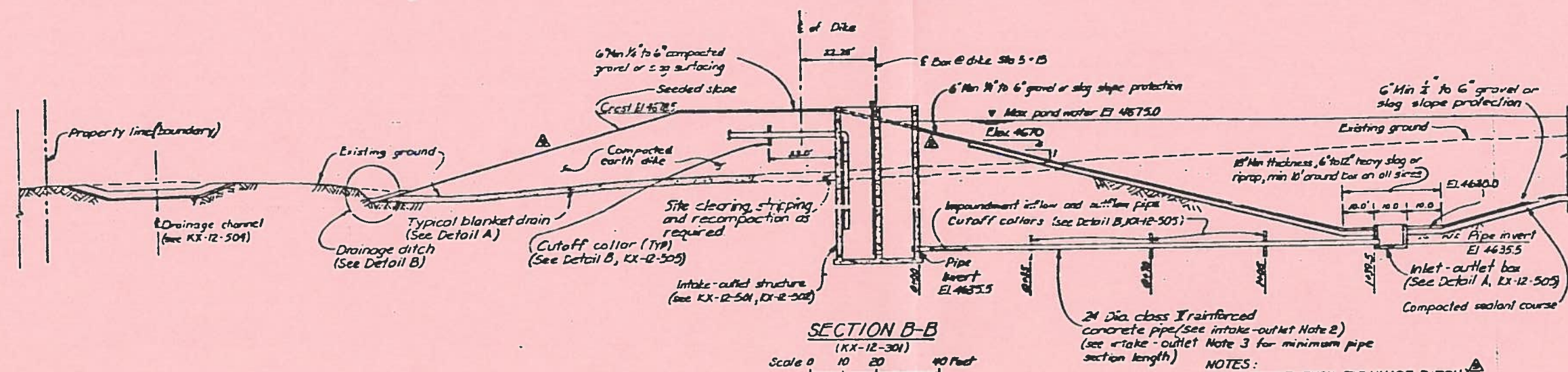


J.R. SIMPLOT COMPANY MINERALS & CHEMICAL DIVISION	
EFFLUENT IMPOUNDMENT LOCATION MAP	
CONSULTING ENGINEERS INTERNATIONAL ENGINEERING COMPANY, INC. A MORFESSON-HULSEN COMPANY 180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105	
DESIGNED <u>E.C.T.</u> INSPECTED _____	DATE <u>DEC. 1980</u>
DRAWN <u>C.G.R.</u> RECOMMENDED _____	DRAWING NO. _____
CHECKED _____ APPROVED _____	FIGURE B-1

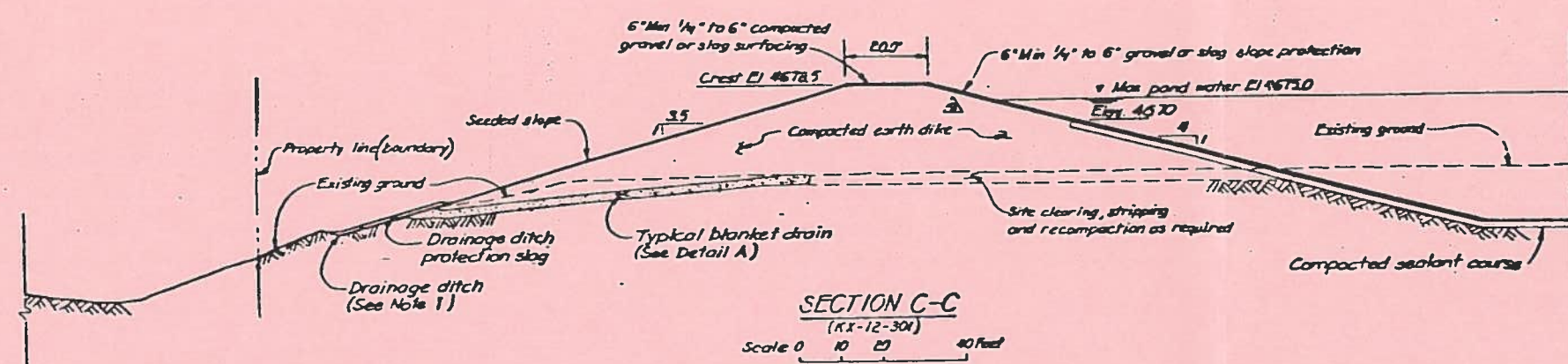




NOTES:
BLANKET DRAIN
 1. In plan, the blanket drain begins at dike & station 1+50 and ends at 38+50 (see KX-12-301).
 2. In section, the blanket drain begins at a maximum distance of 27 feet downstream of the dike & between stations 14+00 and 29+00. The beginning of the drain tapers from station 14+00 to 1+50 and from station 29+00 to 38+50 as shown on this chart.
INTAKE-OUTLET
 1. The inflow-outflow pipe to the impoundment from the intake-outlet structure shall be a 24\"/>

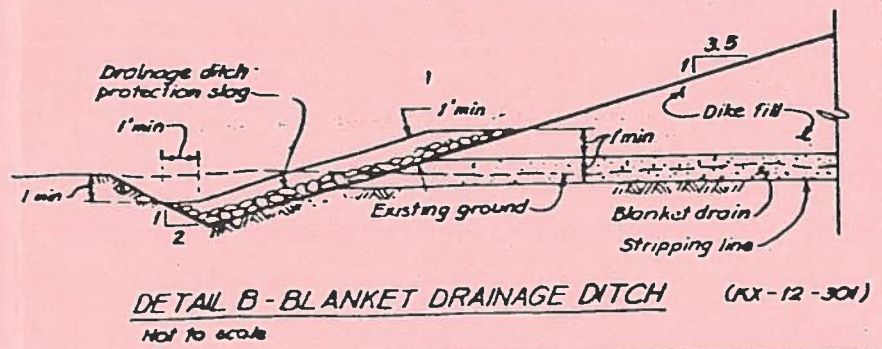
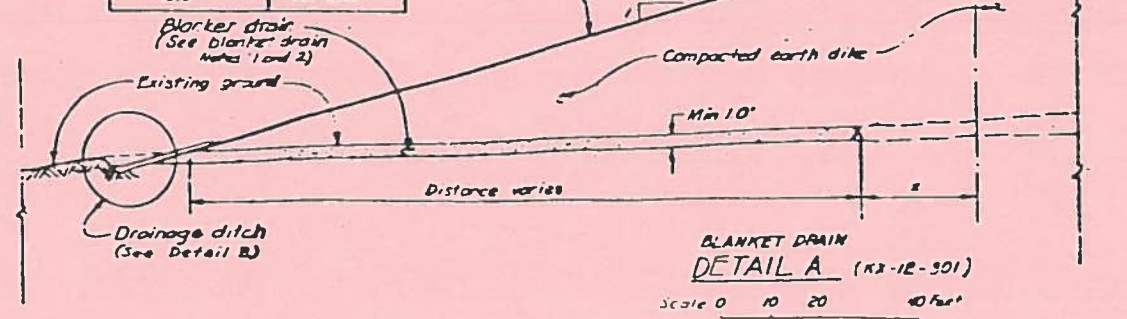


NOTES:
COLLECTOR TRENCH (DRAINAGE DITCH)
 1. Collector trench shall extend along downstream toe as shown in Detail B from the corresponding dike & sta. 13+00 to sta. 32+70.
 2. One portion of the trench shall slope from the corresponding dike & sta. 21+20 toward sta. 13+00. The trench at sta. 13+00 shall exit the dam by means of a trench similar to that along the dam unit the trench daylight. Refer to KX-12-301.
 3. Two other portions of the trench shall slope from the corresponding dike & sta. 21+20 and 32+70 toward sta. 27+00. The trench at sta. 27+00 shall exit the dam by means of a trench similar to that along the dam. The trench shall be 'daylighted' near the property boundary fence. Refer to KX-12-301.
 4. The trench shall follow the natural topography, but shall have a minimum slope of 0.3%.

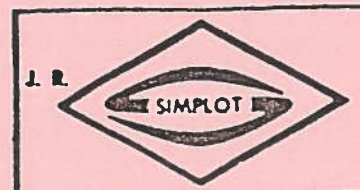


BLANKET DRAIN DIMENSIONS

Max x distance	Dike station
10.0'	5+00
27.0'	14+00
27.0'	23+00
10.0'	33+55.1



NOTE:
 Drawing is based on Simplot Dwg. No. KX-12-302-9



MINERALS & CHEMICAL DIVISION
 POCATELLO, IDAHO
 COMPANY

Scale as noted

NO.	DATE	DESCRIPTION	BY	CHK	APP'D
1	1-12-81	General Revision	RJP		
2	7-29-80	Change collector trench to drainage ditch	JRL	BT	
3	5-27-80	Revise toe trench details and control box	JRL	BT	
4	6-13-79	Add to intake-outlet Notes 1 & 2	ASC	SWR	
5	4-17-79	Add intake-outlet Note 3. Add drain pipe to Section B-B. Change Section B-B to show location of access road approach to dike & add drainage channel to Section B-B.	KXV	SWR	7C
6	4-4-79	Relocate intake-outlet structure. Reduce Section B-B dike width. Lower invert of inflow/outflow pipe 1' to EL 4635.5. Add collector trough dimension to Section B-B. Increase riprap thickness & the drain pipe outlet. Add riprap size. Inlet outlet box add seeding note to downstream slopes. Add collector pipe schedule. Change lining description.	KCY	SWR	7C
7	10-6-78	Increase min. dimension ground for dike	WJ	SWR	
8	7-15-78	add Detail B and notes	WJ	SWR	
9	4-11-78	Change Section B-B to 1:1.5:1.5	WJ	SWR	

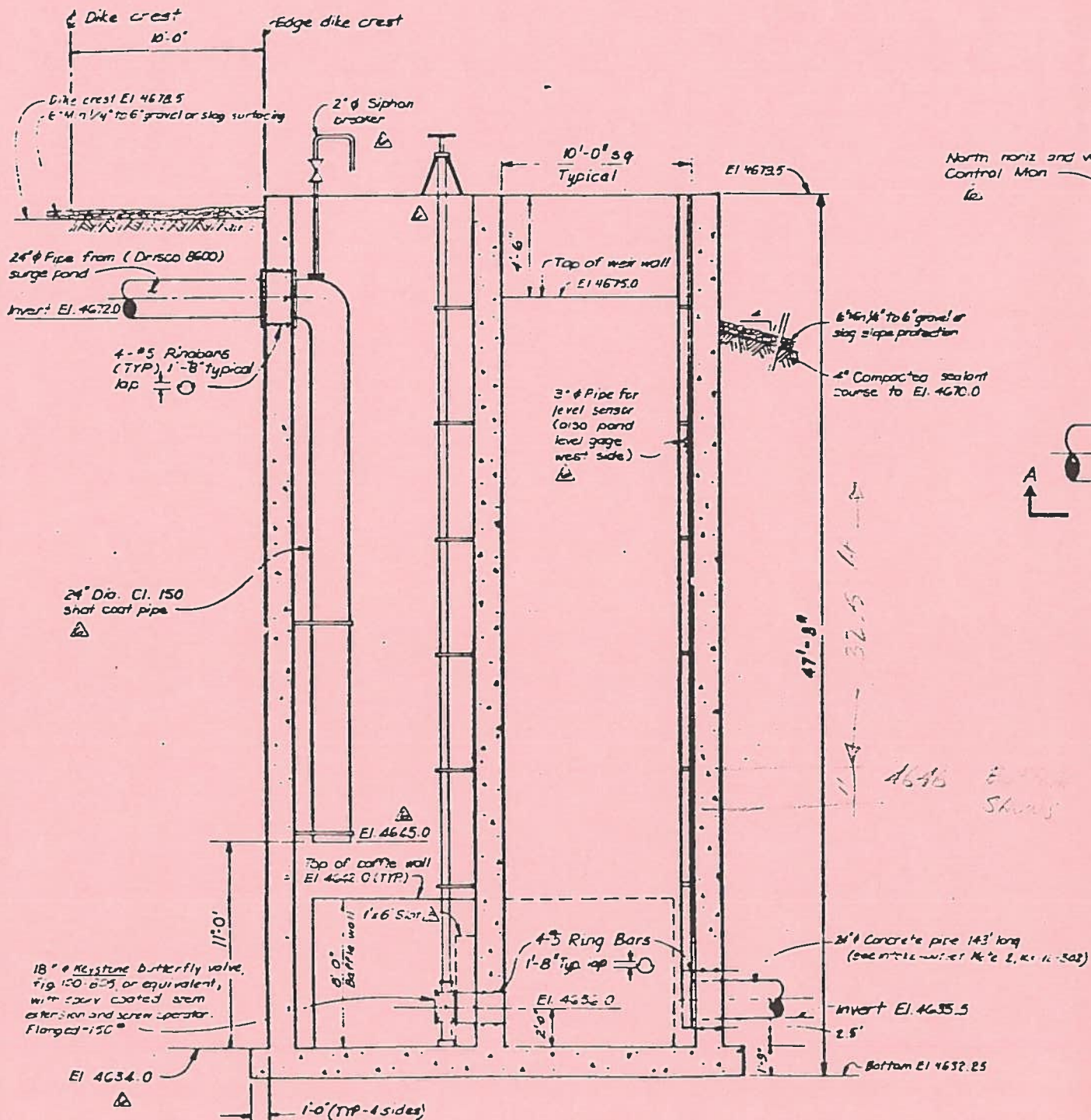
J.R. SIMPLOT COMPANY
 MINERALS & CHEMICAL DIVISION

EFFLUENT IMPOUNDMENT
TYPICAL SECTIONS AND
BLANKET DRAIN DETAIL

CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
 A BROWN-ROBINSON COMPANY
 180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

DESIGNED: E.C.T. INSPECTED: _____
 DRAWN: C.C.B. RECOMMENDED: _____
 CHECKED: _____ APPROVED: _____

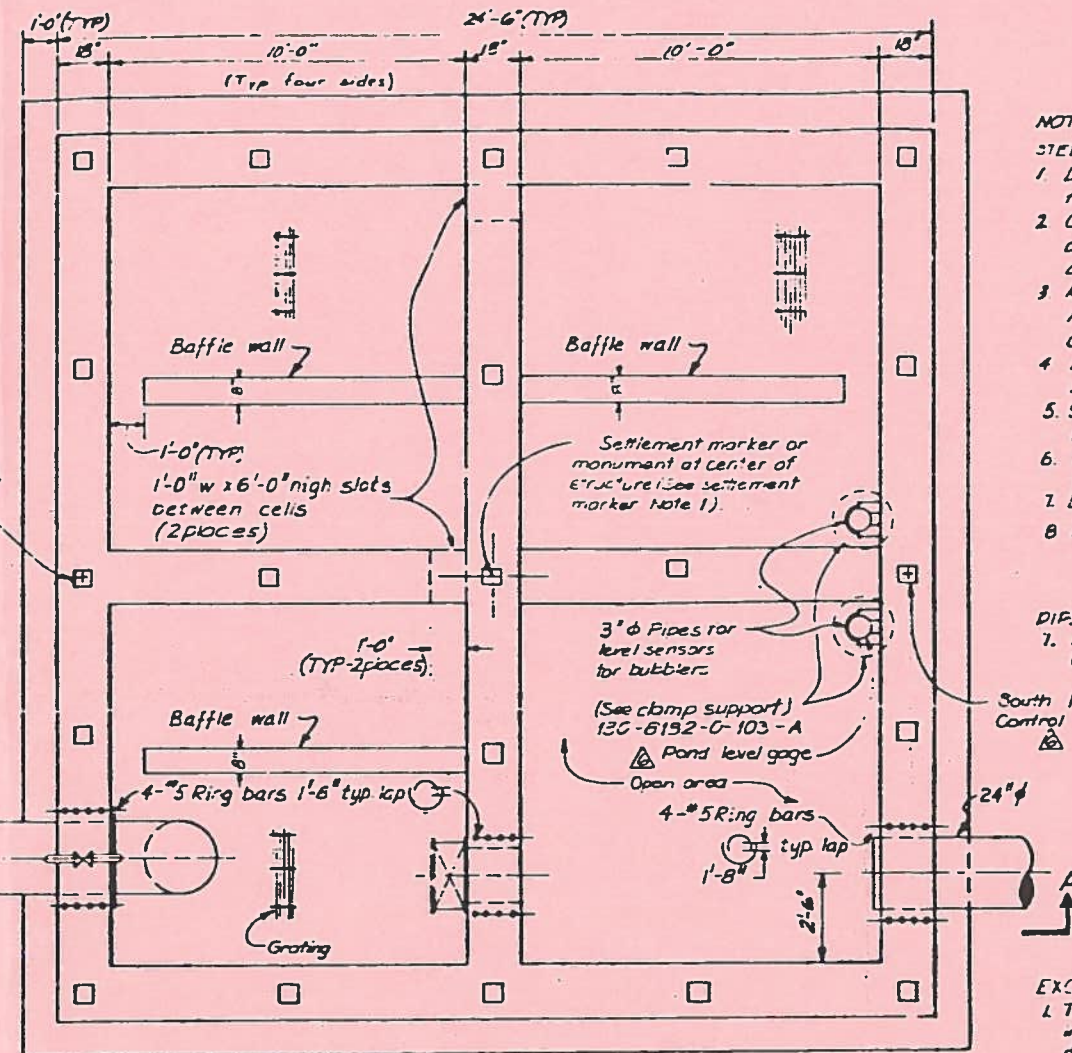
DATE: DEC. 1980
 DRAWING NO.: FIGURE B-3



SECTION A-A
SCALE 1/4" = 1'-0"

North horiz. and vert.
Control Mon.
to

A

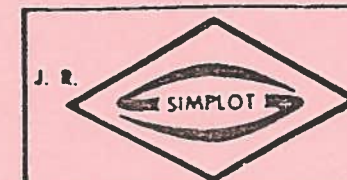


PLAN (KX-12-301, 302, 502)
SCALE 3/8" = 1'-0"

NOTE:

Drawing is based on Simplot Dwg.
No. KX-12-501-6

Scale as noted



MINERALS & CHEMICAL DIVISION
FOCATELLO, IDAHO

COMPANY

NOTES:

STEEL AND CONCRETE

- Design and construction shall meet the requirements of ACI 318-71.
- Concrete shall have minimum compressive strength of 3000 psi at 28 days.
- Reinforcing steel shall meet the requirements of ASTM A-615 Grade 40.
- Minimum concrete protection for reinforcement shall be two (2) inches.
- Structural steel components shall meet the requirements of ASTM A 36.
- Welding shall meet requirements of AWS specifications, latest edition.
- Boltings shall meet good standard practice.
- All concrete corners shall have 1/4" fillet.

PIPING:

- All piping, valve sizing and specifications supplied by J.R. Simplot Co.

South horiz. and vert.
Control Mon.
to

EXCAVATION

- The toe of excavated slopes for construction of inlet-outlet structure shall be a minimum distance of 3'-0" from the outermost edge of the bottom of the structure.

SETTLEMENT MARKER

- A permanent marking or monument shall be provided where indicated on the Plan and its elevation shall be established immediately following final concrete pour.

NO.	DATE	DESCRIPTION	BY	CH	APP'D
1-7-81		General Revision	CCR		
2-8-81		Revised 12' cell wall, grating and slot. Replaced 8" sensor pipes.	JCL	ET	
3-7-81		Dr. etc. corr. etc.	JCL	ET	
4-17-81		Add settlement marker (steel) for structure. Add 12' cell wall, grating and slot. Add 8" sensor pipes. Add 12' cell wall, grating and slot. Add 8" sensor pipes. Add 12' cell wall, grating and slot. Add 8" sensor pipes.	WXY	ET	
7-5-81		Add elev. Typical, errors to notes.	JCL	ET	
5-13-81		Revised 12' cell wall, grating and slot. Add 8" sensor pipes. Add 12' cell wall, grating and slot. Add 8" sensor pipes.	JCL	ET	

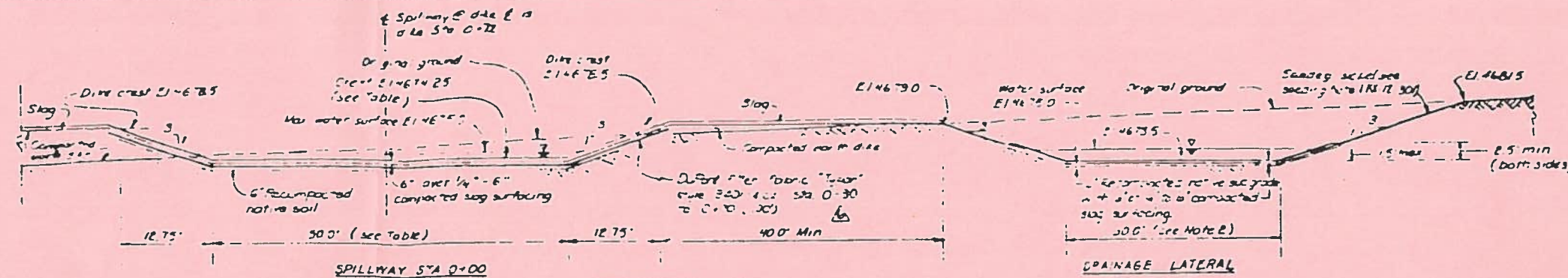
J.R. SIMPLOT COMPANY
MINERALS & CHEMICAL DIVISION

EFFLUENT IMPOUNDMENT
INTAKE-OUTLET STRUCTURE
CONCRETE OUTLINE

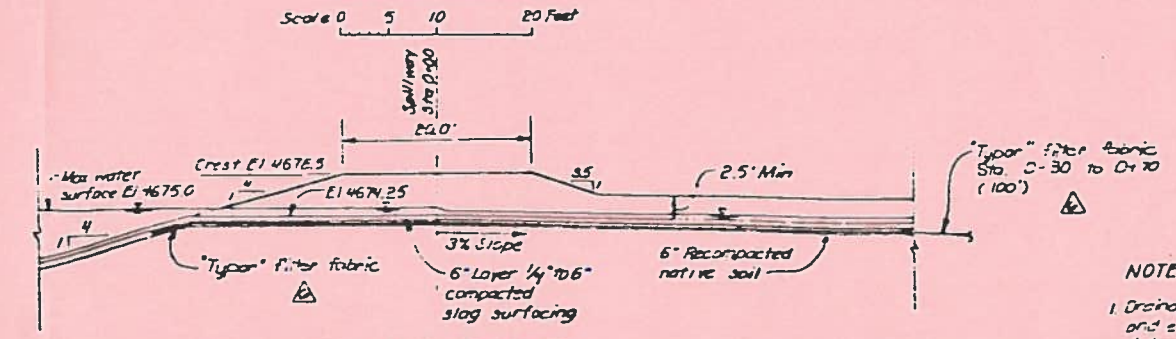
CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

DESIGNED: EGT INSPECTED: DATE: DEC 1980
DRAWN: CCR RECOMMENDED: DRAWING NO.
CHECKED: APPROVED: FIGURE B-4

SPILLWAY				
Station	Bottom Width (ft)	Bottom Elevation	Channel Slope (%)	Max Water Depth (ft)
0+00	50.0	4674.25	3.0	0.5
0+50	50.0	4672.75	3.0	0.5
1+00	50.0	4671.25	3.0	0.5



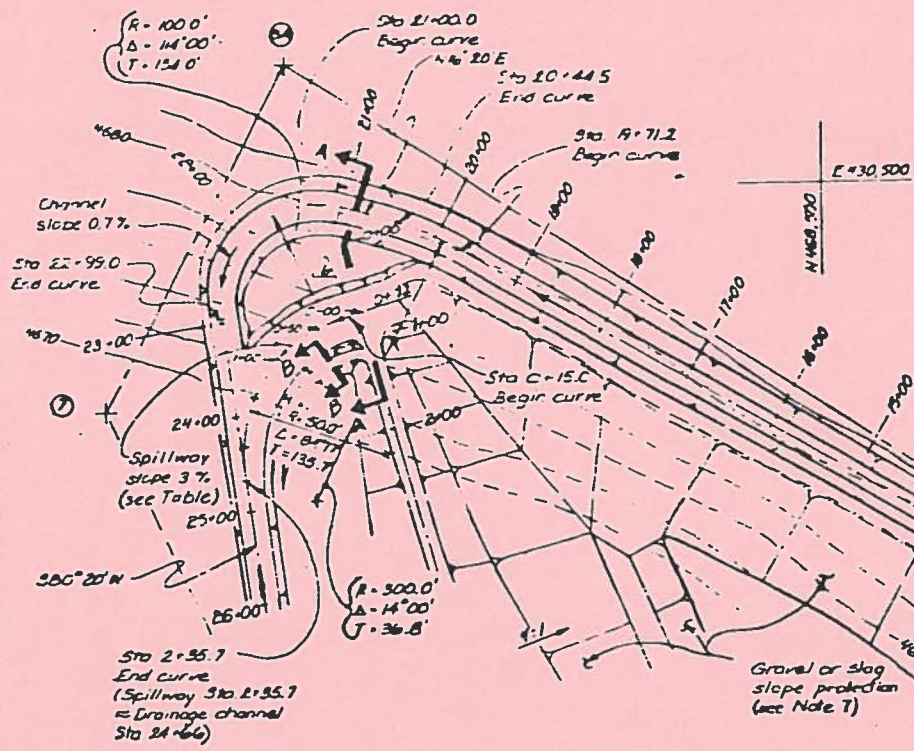
SECTION A-A



SPILLWAY PROFILE

NOTES:

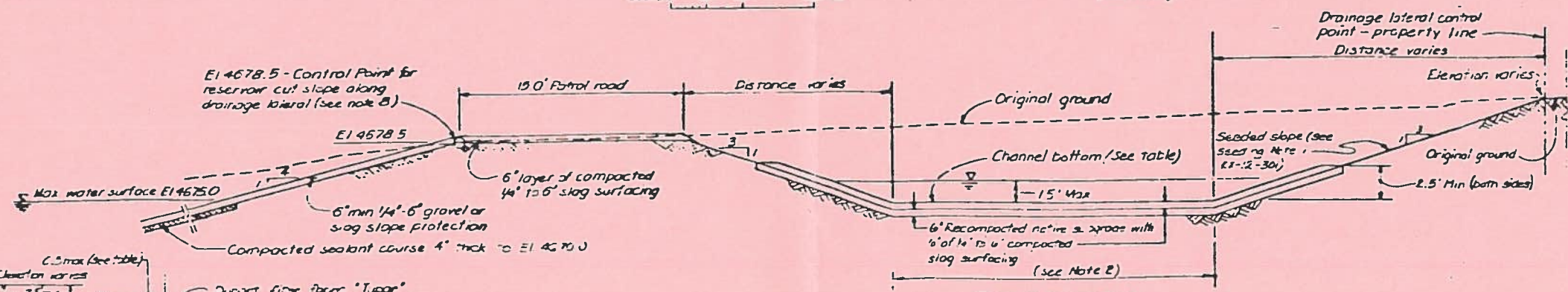
1. Drainage lateral and spillway layout with stationing and elevations shown is subject to change upon precise determination of topography and surveying in the field.
2. The drainage lateral bottom width shall taper from 6 feet at Sta 5+00 to 30 feet at Sta 21+00 as shown in the table.
3. At any point of slope change along the drainage lateral or spillway, the transition between the two slopes shall be a smooth, gradual curve.
4. Drainage lateral and spillway dimensions, elevations and water depths vary. Refer to appropriate table for values.
5. Point (1) at El 4678.5. Refer to Dwg KX-12-301 for coordinates (see Plan).
6. Construct drainage lateral as close to property line as permissible and maintain bottom elevations indicated on table.
7. Cuts into existing ground within reservoir area shall be treated with a sealant to depths to be determined, and recompacted. A 6-inch layer of gravel or slag slope protection shall be placed on the sealant course.
8. Cuts within and along eastern end of the reservoir shall originate at the point where all original ground to the west of El 4678.5 is below that elevation.
9. The Patrol Road shall be 15.0' wide and shall be centered between the drainage lateral and the cut slope in the areas where the original ground width is greater than 15.0'.
10. Between drainage lateral Sta 0+00 and Sta 13+70 the Patrol Road shall consist of a leveled area covered with 6" of compacted 1/4" to 6" slag surface material.



DRAINAGE LATERAL AND SPILLWAY - PLAN (KX-12-301)

DRAINAGE LATERAL				
Station	Bottom Width (ft)	Bottom Elevation	Channel Slope (%)	Max Water Depth (ft)
0+00	6	4677.7	0.2	1.5
5+00	6	4676.7	0.2	1.5
6+00	7.5	4676.5	0.2	1.5
11+00	15.0	4675.5	0.2	1.5
16+00	22.5	4674.5	0.2	1.5
21+00	30.0	4673.5	0.2	1.5
22+00	30.0	4672.8	0.7	1.0
23+00	30.0	4672.1	0.7	1.0

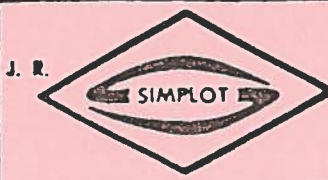
DRAINAGE LATERAL



DRAINAGE LATERAL AND PATROL ROAD - TYPICAL DETAILS

NOTE:

Drawing is based on Simplot Dwg. No. KX-12-503-6



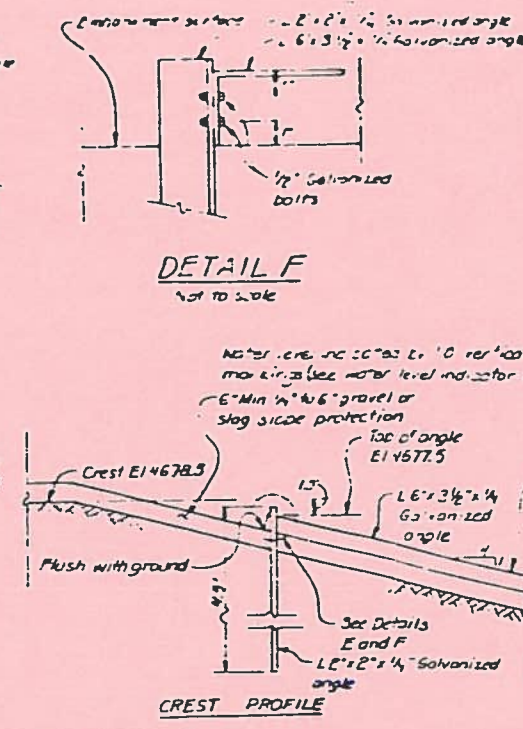
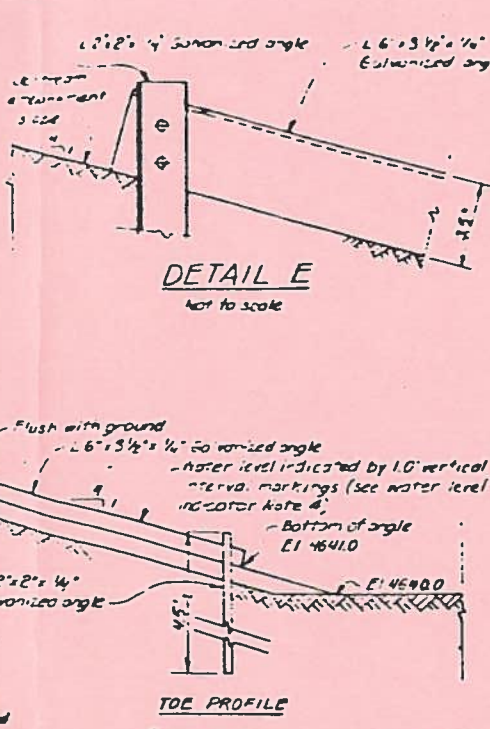
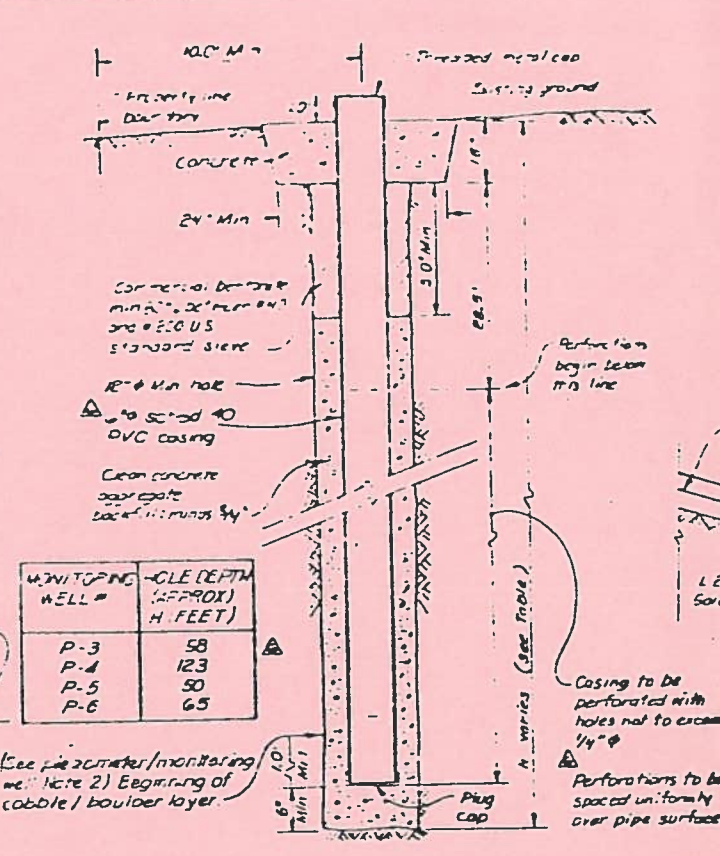
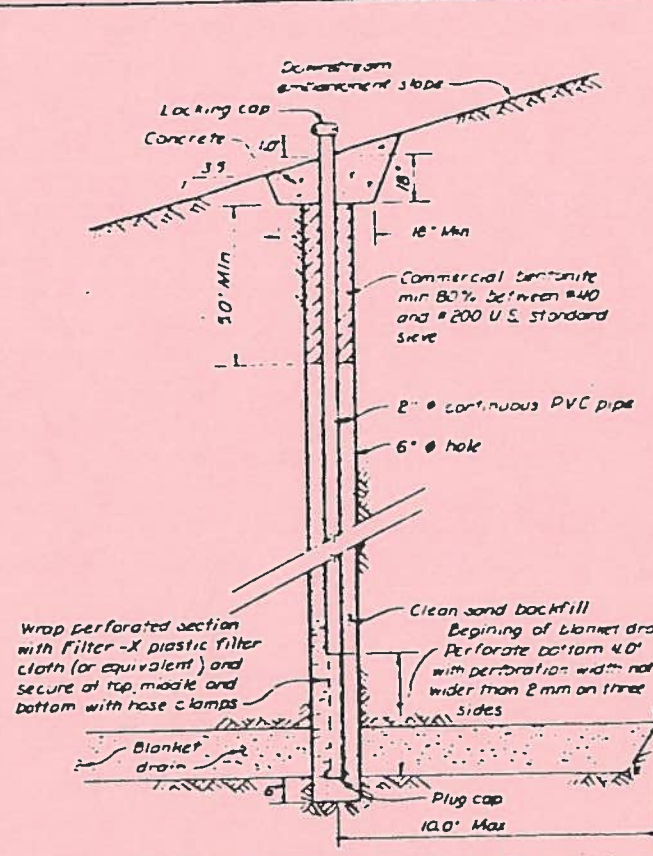
MINERALS & CHEMICAL DIVISION
POCATELLO, IDAHO

J.R. SIMPLOT COMPANY
MINERALS & CHEMICAL DIVISION

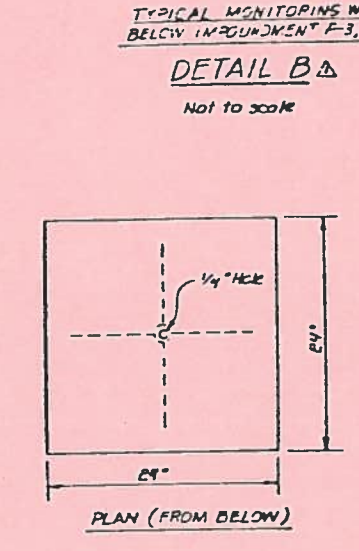
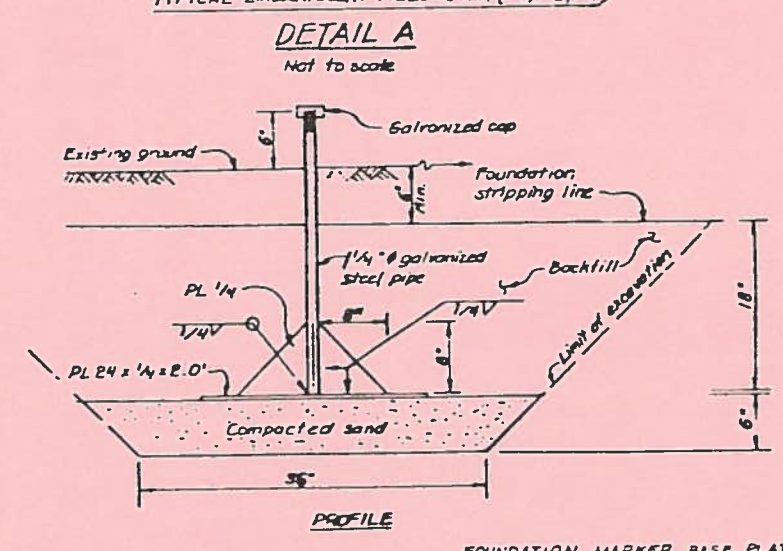
EFFLUENT IMPOUNDMENT
DRAINAGE LATERAL & SPILLWAY
PLAN & SECTIONS

CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
A MEMBER OF THE SIMPLOT GROUP
180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

DESIGNED	INSPECTED	DATE
E.C.T.	E.C.T.	DEC 1988
DRAWN	RECOMMENDED	DRAWING NO.
E.C.T.	E.C.T.	FIGURE B-
CHECKED	APPROVED	

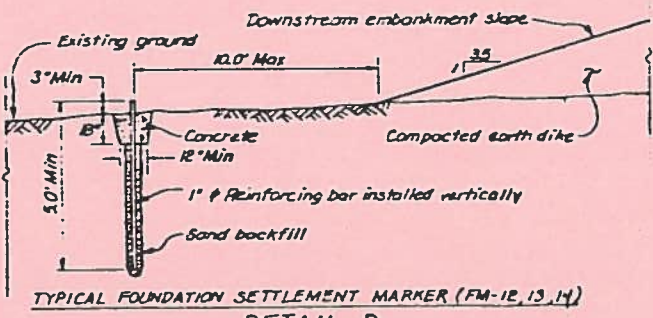


- NOTES:**
1. L6 x 3 1/2 x 1/4 angle shall be continuous from EI 46410 to EI 46775.
 2. The L6 x 3 1/2 x 1/4 angle is supported every 10 feet (horiz.) and at the ends of each section used by a L6 x 2 x 1/4 galvanized angle.
 3. The 2 x 2 x 1/4 angle shall be 4.5' in length and shall extend 4" above the slope protection.
 4. The L6 x 3 1/2 x 1/4 shall be clearly marked at 10' vertical intervals according to elevation with paint or other suitable means and with smaller marks at intervals of 0.25'.
 5. Marker shall be located adjacent to inlet-outlet structure - see 5-000 PIEZOMETERS/MONITORING WELLS.



PIEZOMETER/MONITORING WELL	EMBANKMENT & STATION	OFFSET FROM E. STA.	
		UPSTREAM	DOWNSTREAM
P-1	14+04		30
P-2	25+04		32
P-3	13+83		261
P-4	20+04		236
P-5	27+57		197
P-6	7+98		194
P-7	5+75		24
P-8	5+46		

PIEZOMETER/MONITORING WELL LOCATIONS (KX-12-301)
(See Details A and B)

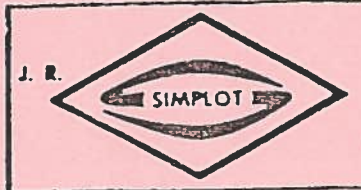
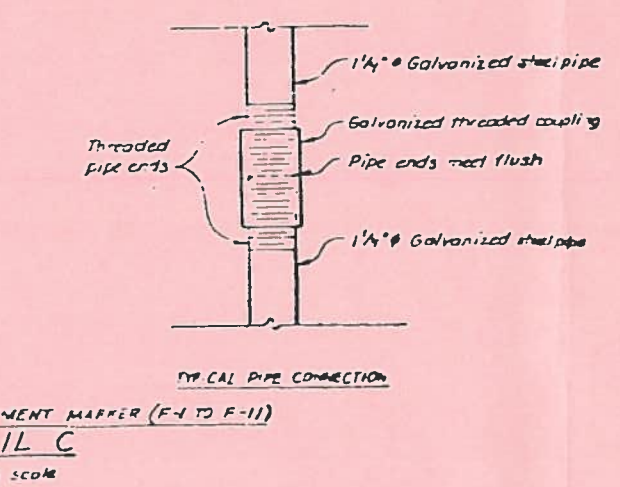
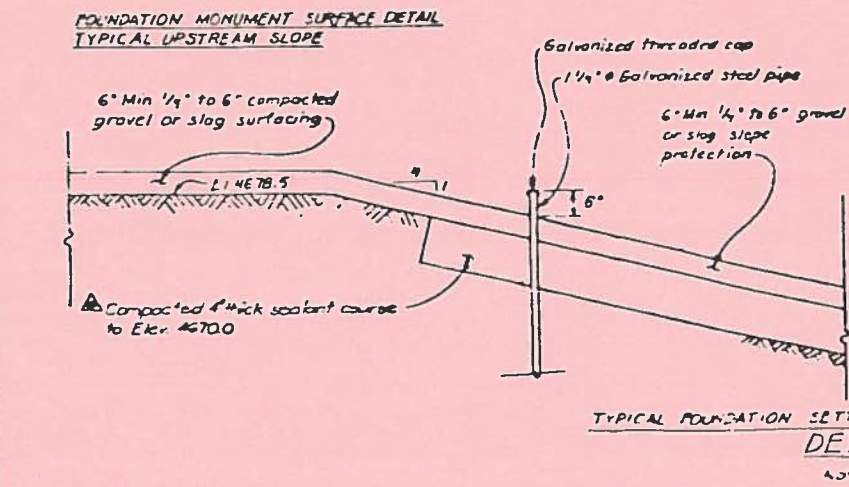


- SETTLEMENT MARKERS**
1. Installation of settlement monuments shall be performed under supervision of a soils engineer or qualified technician.
 2. Foundation settlement markers FM-1 through FM-11 shall be installed prior to foundation prewatering. Foundation settlement markers FM-12 through FM-14 shall be installed immediately following foundation preparation and prior to embankment construction.
 3. All monuments shall be installed accurately and in the locations shown and their appropriate numbers shall be inscribed on the pipe or on the top of the reinforcing bar, whichever is applicable.
- STEEL**
1. Structural steel components shall require requirements of ASTM A 36.
 2. Welding shall meet requirements of ASW specifications.

FOUNDATION MONUMENT #	EMBANKMENT & STATION	OFFSET (FT)
FM-1	4+03	260 Upstream
FM-2	10+00	14.0 Upstream
FM-3	14+00	14.0 Upstream
FM-4	17+00	14.0 Upstream
FM-5	20+00	14.0 Upstream
FM-6	25+00	14.0 Upstream
FM-7	30+00	14.0 Upstream
FM-8	35+00	14.0 Upstream
FM-9	14+00	80.0 Downstream
FM-10	20+00	75.0 Downstream
FM-11	25+00	72.0 Downstream
FM-12	14+00	see Detail D
FM-13	20+00	see Detail D
FM-14	25+00	see Detail D

FOUNDATION SETTLEMENT MARKER LOCATIONS
(See Details C and D)

NOTE:
Drawing is based on Simplot Dwg. No. KX-12-507-6



MINERALS & CHEMICAL DIVISION
POCATELLO, IDAHO
COMPANY

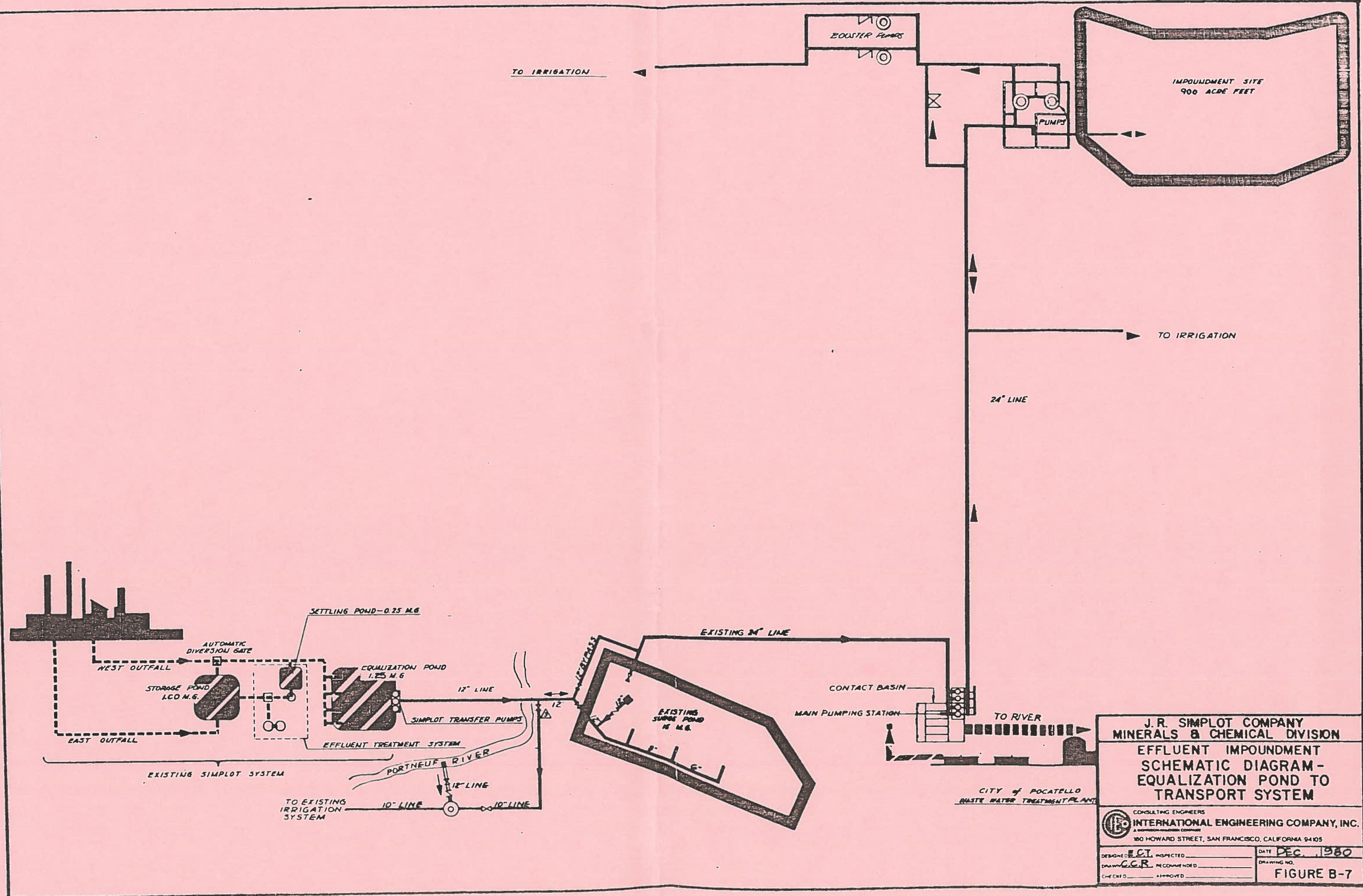
NO.	DATE	DESCRIPTION	BY	CHK	APP
1	1-7-61	GENERAL REVISION	R.D.		
2	2-7-60	2nd P.C. Piezometer F7 error - Dring well	L.L.	ET	
3	4-17-78	Change water level indicator L6 x 3 1/2 x 1/4 to L6 x 3 1/2 x 1/4	WET	WET	TC
4	9-26-78	Change water level indicator L6 x 3 1/2 x 1/4 to L6 x 3 1/2 x 1/4	WET	WET	TC
5	1-13-79	Added note 1 and 2	WET	WET	TC
6	1-13-79	Added note 3 and 4	WET	WET	TC

J.R. SIMPLOT COMPANY
MINERALS & CHEMICAL DIVISION

EFFLUENT IMPOUNDMENT
INSTRUMENTATION DETAILS

CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

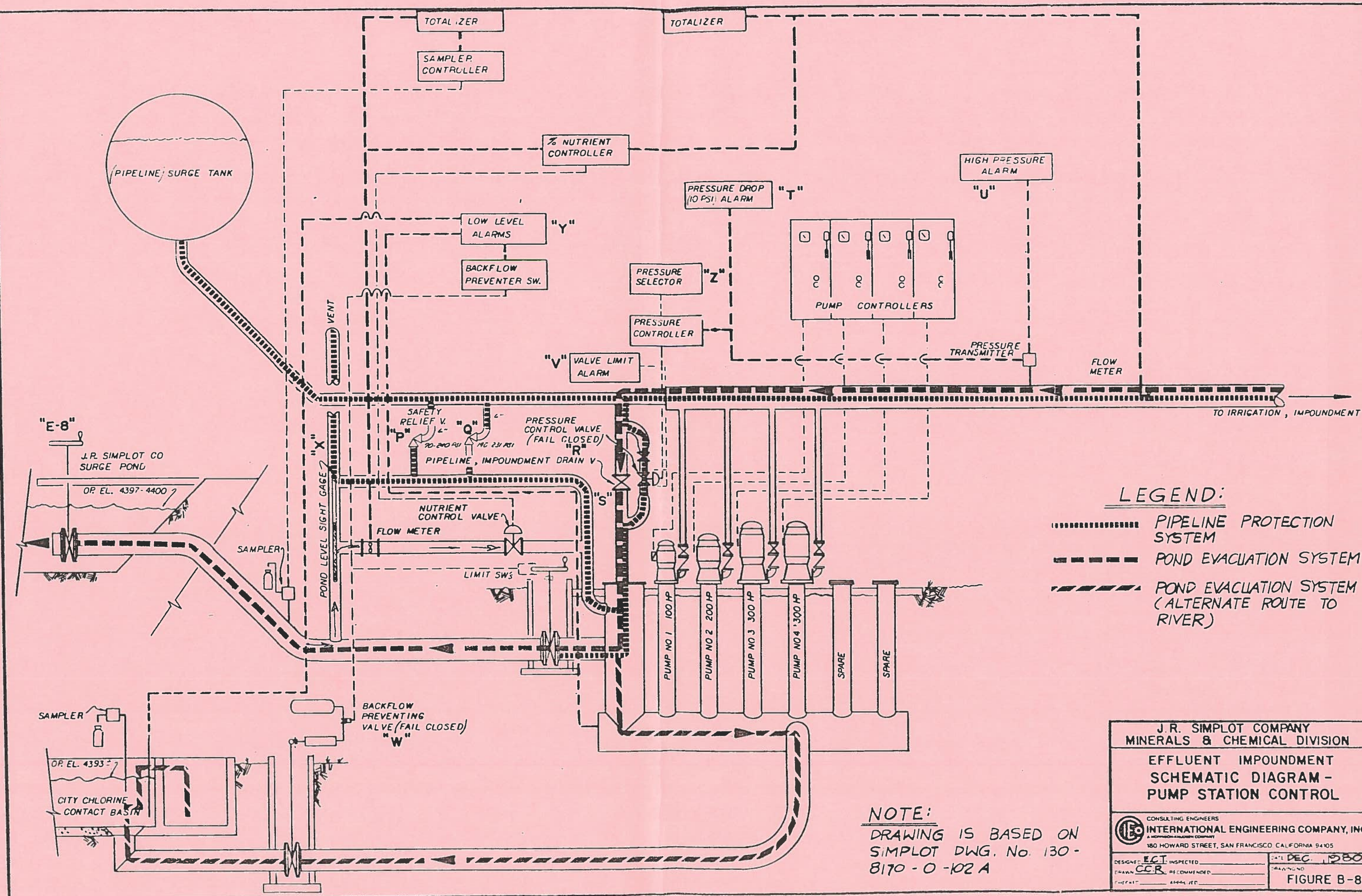
DESIGNED: ECT	INSPECTED:	DATE: DEC. 1980
DRAWN: C.C.R.	RECOMMENDED:	DRAWING NO.
CHECKED:	APPROVED:	FIGURE B-6



J.R. SIMPLOT COMPANY
MINERALS & CHEMICAL DIVISION
EFFLUENT IMPOUNDMENT
SCHEMATIC DIAGRAM -
EQUALIZATION POND TO
TRANSPORT SYSTEM

CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
A HARRISON-MANAGER COMPANY
180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

DESIGNED BY E.C.I.	CHECKED BY CCB	DATE DEC. 1980
APPROVED BY CCB		DRAWING NO. FIGURE B-7

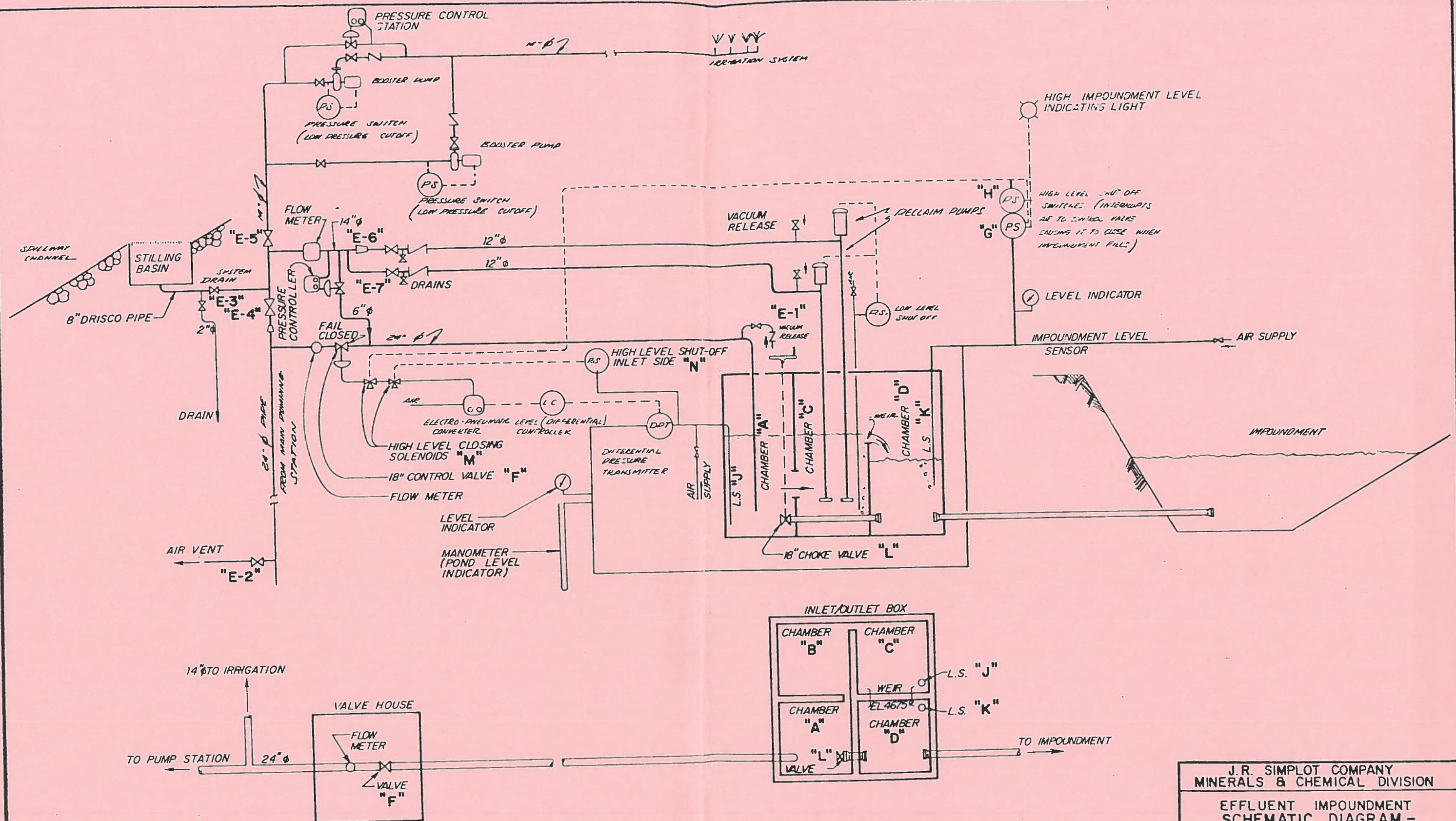


LEGEND:

- PIPELINE PROTECTION SYSTEM
- POND EVACUATION SYSTEM
- . - . - . POND EVACUATION SYSTEM (ALTERNATE ROUTE TO RIVER)

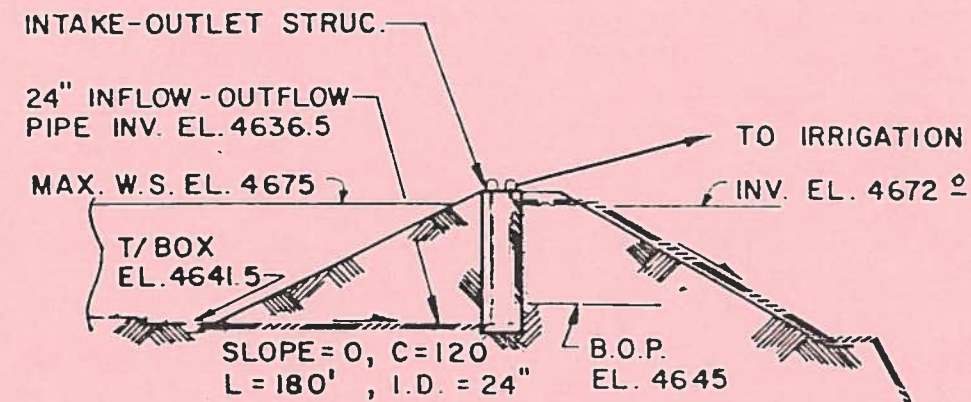
NOTE:
 DRAWING IS BASED ON
 SIMPLOT DWG. No. 130 -
 8170 - 0 - 102 A

J.R. SIMPLOT COMPANY MINERALS & CHEMICAL DIVISION	
EFFLUENT IMPOUNDMENT SCHEMATIC DIAGRAM - PUMP STATION CONTROL	
CONSULTING ENGINEERS INTERNATIONAL ENGINEERING COMPANY, INC. A HOBAS-HANSEN COMPANY 180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105	
DESIGNED: E.C.T. DRAWN: C.C.R. CHECKED: A.M.M., J.P.	DATE: DEC. 1980 DRAWING NO.: FIGURE B-8

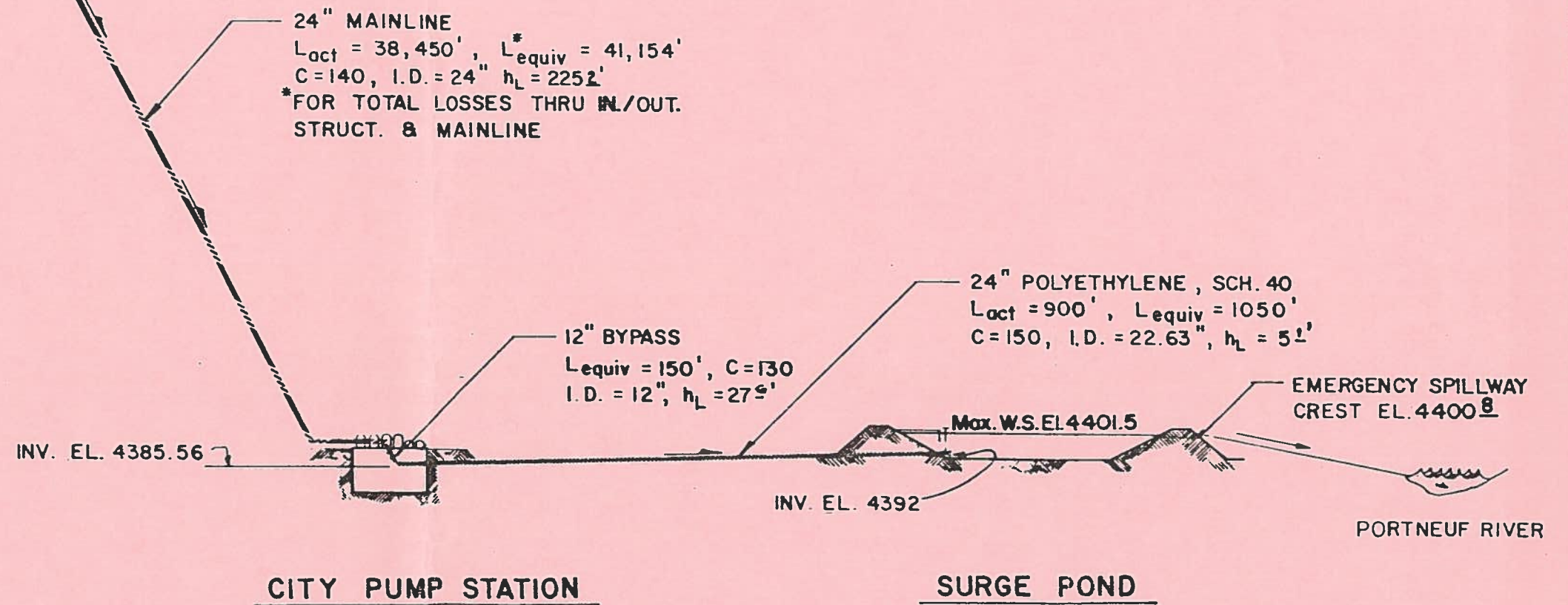


NOTE:
DRAWING IS BASED ON
SIMPLOT DWG. No. 130-8170-0.
103A

J.R. SIMPLOT COMPANY MINERALS & CHEMICAL DIVISION	
EFFLUENT IMPOUNDMENT SCHEMATIC DIAGRAM - IMPOUNDMENT INTAKE OUTLET	
CONSULTING ENGINEERS INTERNATIONAL ENGINEERING COMPANY, INC. 180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105	
DESIGNED: EGT DRAWN: C.R. CHECKED: A.C.	INSPECTED: _____ RECOMMENDED: _____ DATE: DEC. 1980 DRAWING NO. _____ FIGURE B-9



IMPOUNDMENT



J. R. SIMPLOT COMPANY
MINERALS & CHEMICAL DIVISION

EFFLUENT IMPOUNDMENT
SCHEMATIC DIAGRAM -
IMPOUNDMENT DRAWDOWN
@ 22.5 CFS FLOW

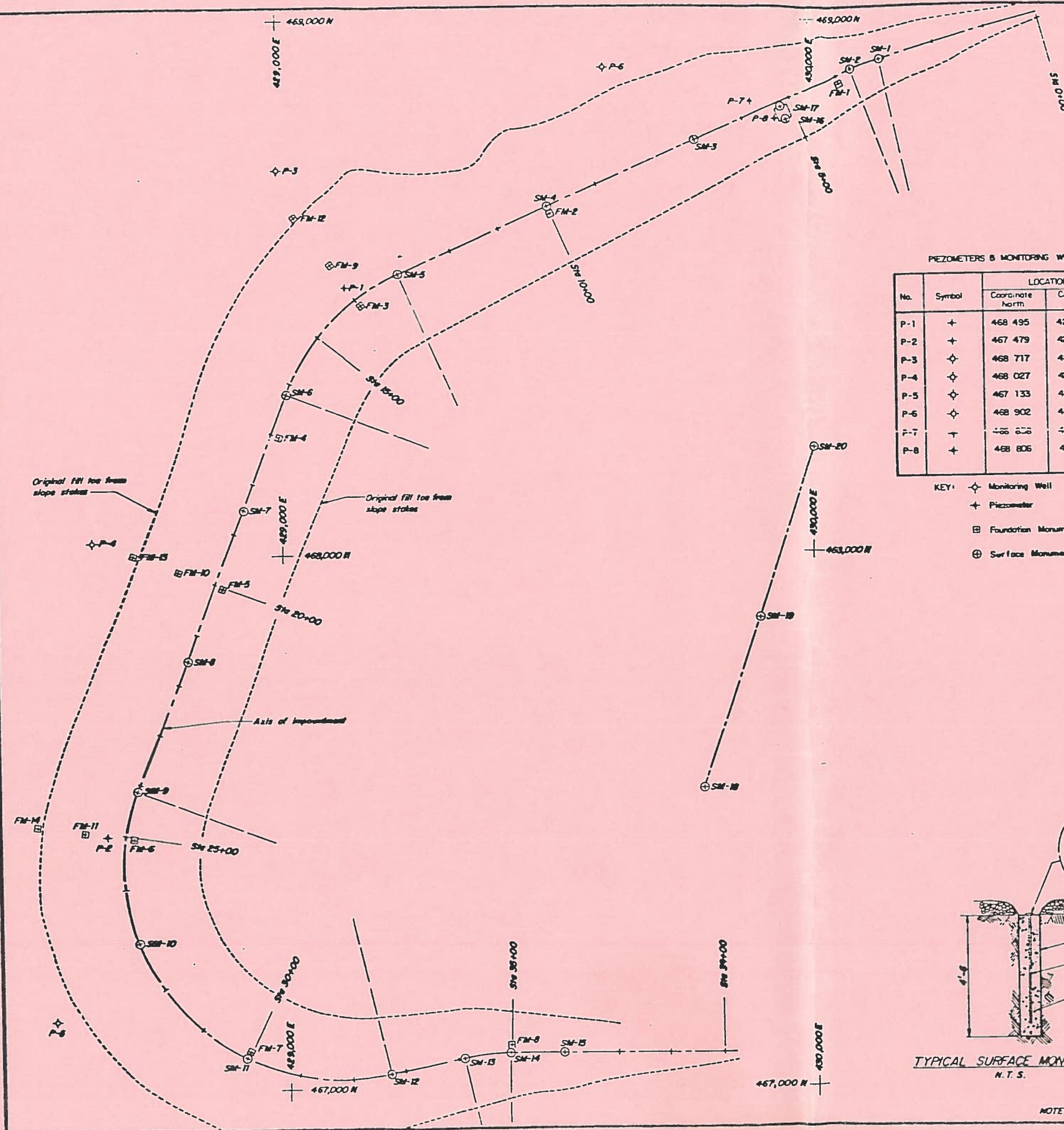


CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

DESIGNED: B.C.T. INSPECTED:
DRAWN: C.C.R. RECOMMENDED:
CHECKED: APPROVED:

DATE: DEC. 1980
DRAWING NO.

FIGURE B-10



PIEZOMETERS & MONITORING WELLS

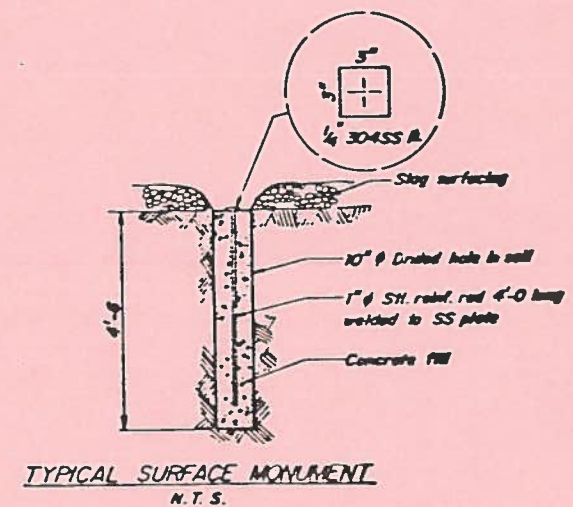
No.	Symbol	LOCATION	
		Coordinate North	Coordinate East
P-1	+	468 495	429 125
P-2	+	467 479	428 676
P-3	+	468 717	428 936
P-4	+	468 027	428 657
P-5	+	467 133	428 579
P-6	+	468 902	429 715
P-7	+	466 656	425 667
P-8	+	468 806	429 932

KEY:

- Monitoring Well
- Piezometer
- Foundation Monument
- Surface Monument

Surface Monument No.	Location (± 0.5')		Elevation Top Monument	Approximate Distance To Shoulder		Approximate Embankment Centerline Station	Identification
	Coordinate North	Coordinate East		Down Stream	Up Stream		
SM-1	468 916.75	430 134.4	4679.14	10	10	3+14	"B"
SM-2	468 895.95	430 078.6	4679.18	10	10	3+73	"C"
SM-3	468 764.5	429 780.0	4679.22	10	10	7+00	
SM-4	468 643.35	429 546.6	4679.82	14	10	10+00	
SM-5	468 515.1	429 224.7	4680.12	13	10	13+07	"D"
SM-6	468 297.2	429 013.35	4680.62	9	11	16+21	"E"
SM-7	468 083.85	428 931.7	4680.14	10	10	18+50	
SM-8	467 803.85	428 824.25	4680.69	10	10	21+50	
SM-9	467 560.85	428 730.7	4680.58	10	10	24+10	"F"
SM-10	467 277.25	428 730.25	4680.25	10	10	27+00	
SM-11	467 060.05	428 926.75	4680.39	10	10	30+00	
SM-12	467 027.65	429 190.8	4679.86	8	12	32+72	"G"
SM-13	467 058.90	429 328.0	4679.64	11	10	34+13	"H"
SM-14	467 066.65	429 413.85	4679.70	9	11	34+33	"I"
SM-15	467 066.35	429 515.70	4679.52	8	12	36+00	
SM-16	468 804.35	429 954.8	4679.38	0.75		5+25	
SM-17	468 626.0	429 945.3	4679.38	23.75		5+25	
SM-18	467 559.37	429 785.09	4678.88	Base Line Monuments Set In Natural Ground On East Bank Of Impoundment			
SM-19	467 876.26	429 893.11	4679.53				
SM-20	468 193.17	430 001.13	4678.53				

Initial Readings Made: January 12-17, 1981



NOTE: This drawing is based on Simplot drawing 130-B-182-107A.

J.R. SIMPLOT COMPANY
MINERALS AND CHEMICAL DIVISION

EFFLUENT IMPOUNDMENT

INSTRUMENT LOCATION AND DETAIL

CONSULTING ENGINEERS
INTERNATIONAL ENGINEERING COMPANY, INC.
180 HOWARD STREET, SAN FRANCISCO, CALIFORNIA 94105

DESIGNED: ECT
DRAWN: RJP
CHECKED: _____

INSPECTED: _____
RECOMMENDED: _____
APPROVED: _____

DATE: APR 1 1981
FIGURE B-11

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECORD OF INSPECTION OF DAM

Name of dam: SIMPLIX EFFLOW DAM Stream: _____ ☒ Offstream
Name of owner: SIMPLIX CO. Location: SESW SEC 30, T. 55, R. 34E
Individuals accompanying inspector: DENNIS FACER, ENGINEER w/ SIMPLIX CO.
Reservoir characteristics: Dam height 25' Surface area 38Ac. Storage capacity 860 A.F.
Hazard class: HIGH RISK Photographs: YES

CONDITION OF EMBANKMENT OR STRUCTURE: ☐ Poor ☐ Fair ☐ Good ☒ Excellent

Type: ☒ Earth ☐ Rockfill ☐ Conc. arch ☐ Conc. gravity ☐ Timber crib ☐ Other _____

	UPSTREAM SLOPE	CREST	DOWNSTREAM SLOPE	TOE AREA
Surface cover material	<u>SMALL ROCK RIPRAP</u>	<u>GRAVEL COVER</u>	<u>NONE</u>	
Growth	<u>GRASS & REEDS</u>			
Settlement or cracks		<u>NONE</u>		
Surface erosion		<u>1</u>		
Debris		<u>NONE</u>		
Animal burrows		<u>1</u>	<u>SMALL RODENT HOLES</u>	
Crest width and slope measurements	<u>4:1</u>	<u>20'</u>	<u>3.5:1</u>	

CONDITION OF OUTLET WORKS: ☐ Poor ☐ Fair ☐ Good ☒ Excellent

Location: ☐ Left side ☐ Center ☐ Right side ☐ Other _____

Description and condition: PUMP STATION - PUMPS ARE PLACED ON VERTICAL CONC. STRUCTURE ON UPST. SLOPE

Gate hoist: ☐ Manual ☒ Electric ☐ Other _____
Stem: ☐ Inclined from entrance to crest ☐ Vertical on tower at entrance
☐ Vertical through dam from crest ☐ Downstream valve

Entrance: SUBMERGED Outlet: _____

CONDITION OF SPILLWAY: ☐ Poor ☐ Fair ☐ Good ☒ Excellent

Location: ☐ Left abutment ☐ Right abutment ☐ Away from dam ☐ Other _____

Base width _____ Freeboard at crest 4.3' Sideslope MILD Channel slope MILD Fetch _____

Overflow channel: ☒ Well defined ☒ Flow directed away from toe ☐ Flow could reach toe

Erosion control present: GRAVEL ROCK LINED Erosion present: NONE

Maintenance condition: Debris NONE Growth NONE

SEEPAGE:

Reservoir level during inspection: ± 20' B.S.C.

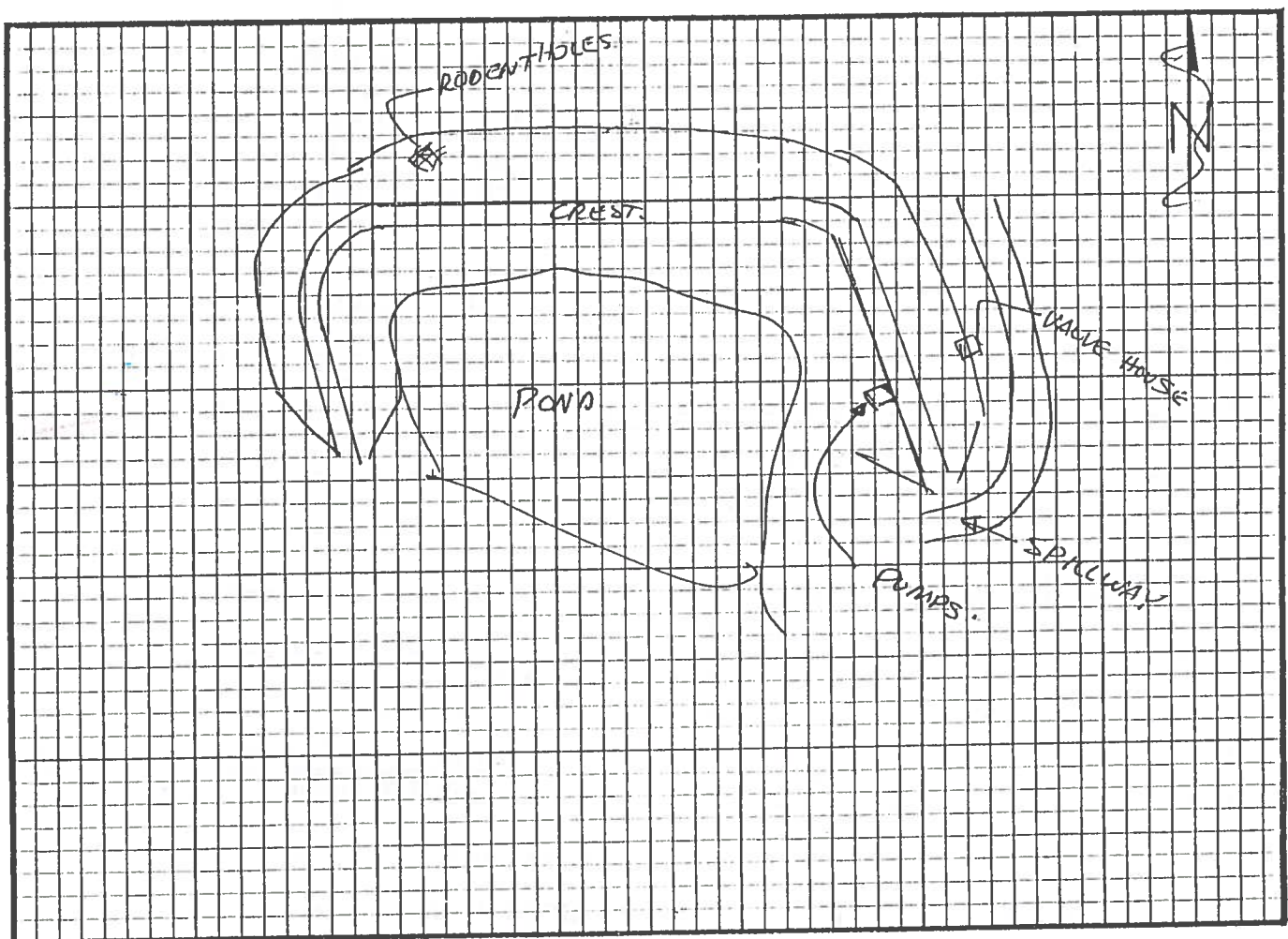
	TOE AREA	DOWNSTREAM SLOPE	ABUTMENTS	OTHER
Piping of material evident (Est. G.P.M.)				
Flowing water (Est. G.P.M.)	<u>1</u>	<u>1</u>	<u>1</u>	
Marshy or standing water	<u>NONE</u>	<u>NONE</u>	<u>NONE</u>	
Damp	<u>1</u>	<u>1</u>	<u>1</u>	
Evident from growth present				

GENERAL CONDITION AND DESCRIPTION OF DAM: EXCELLENT.

- DENNIK FACER INDICATED THE COMPANY WOULD ADISON THE
RODENTS ON THE DAM.

INSTRUMENTATION READINGS (Piezometer, Seepage measurement, Alignment, Elevation, etc.)

SKETCH OF DAM SHOWING LOCATION OF SPILLWAY AND OUTLET WORKS AND ANY MAINTENANCE PROBLEMS:



RECOMMENDATIONS: Issue Certificate For 2 Yrs.

- RODENT CONTROL

Date: SEPT 23., 19 88

Inspected by: STEVE MCCORMICK