

**EMERGENCY ACTION PLAN
STORM LAKE DAM
BUTTE-SILVER BOW
DEPARTMENT OF PUBLIC WORKS
WATER UTILITY DIVISION
124 WEST GRANITE STREET
BUTTE, MONTANA 59703-0667
(406) 497-6540
January 2019**

If Storm Lake Dam is failing or failure seems imminent, call:

Anaconda-Deer Lodge County Sheriff..... 911 or (406) 563-5241

Disaster and Emergency Services- Deer Lodge County

Mr. Bill Converse.....Office: (406) 563-5571

.....Home: (406) 563-6723

.....Cel: (406) 560-3515

Mr. Marty Mavrinac (D.E.S. Assistant).....Office: (406) 563-5571

.....Home: N/A

.....Cel: (406) 560-8026

Mr. Mark Neary, Director of Public WorksOffice: (406) 497-6519

.....Home: (406) 782-2171

.....Cel: (406) 498-5467

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I. INTRODUCTION

A. Purpose

One of the most important goals of BSB Department of Public Works Water Utility Division in the operation of the Storm Lake Reservoir is to insure the safety of the public at large by the prevention of emergency conditions from occurring. This is to be accomplished by following prescribed maintenance procedures as recommended by the DNRC and required in the dam operating permits. The operating procedures followed by BSB Department of Public Works Water Utility Division for Storm Lake keep the reservoir levels well within the established safety limits of the dam.

The purpose of this emergency action plan (EAP) is primarily to safeguard the lives of the citizens of Anaconda-Deer Lodge County living downstream from Storm Lake Dam and secondarily to reduce damage to their property in the unlikely event of flooding caused by a failure of the dam. Hopefully, this emergency action will not have to be implemented. However, should an emergency occur, this plan will be in place and periodically maintained and practiced in order to insure the viability and effectiveness of the EAP.

B. Description of Dam

Storm Lake Dam is located in Anaconda-Deer Lodge County, in Section 30, Township 4 North (T4N), Range 13 West (R13W) of the Montana Principal Meridian. It is owned by BSB Department of Public Works Water Utility Division. The BSB Department of Public Works Water Utility Division is the operator and is also responsible for acquiring

dam operating permits and the implementation of this EAP. Storm Lake Dam impounds water for industrial use, irrigation and recreation. Technical data pertaining to Storm Lake and its structures are shown in Appendix A.

C. Access to Dam

Storm Lake is located approximately nine miles south of U.S. Highway 10A, with the road access off the highway located approximately one-half mile east of Silver Lake.

Storm Lake is approximately 14.5 miles southwest of Anaconda, Montana. In the event that the dam is breached, the access road most likely would be inundated and vehicle access to the dam would be lost. The nearest telephone is at the Silver Lake Pump Station one-half mile west of the Storm Lake turnoff from Highway 10A and the telephone number is 563-6066.

D. Hazard Area

The hazard area extends downstream from Storm Lake north along the Storm Lake Creek drainage northeasterly to the confluence of the Silver Lake discharge channel and thence easterly and passing under Highway 10A into Cable Meadows where it joins Cable Creek. From Cable Meadows, the inundation zone passes under the highway again and follows along the southern edge of the highway easterly toward West Valley and Anaconda, Montana passing under the highway three more times before reaching Anaconda. Inundation and evacuation maps are in Appendix B.

E. Responsibility and Authority

Pursuant to the Dam Safety Act, Chapter 15 of Title 85, MCA, high hazard dam owners are responsible for production, coordination, maintenance, and implementation of emergency action plans. BSB Department of Public Works Water Utility Division, as

dam operator, has been assigned this responsibility by the owners of the dam. The extent of BSB Department of Public Works Water Utility Division implementation of the EAP was defined through coordination of this plan with the Anaconda-Deer Lodge County Engineer at (406) 563-4015 and the coordinator of Anaconda-Deer Lodge County Disaster and Emergency Services (DES) at (406) 563-5571.

F. Periodic Review/Update

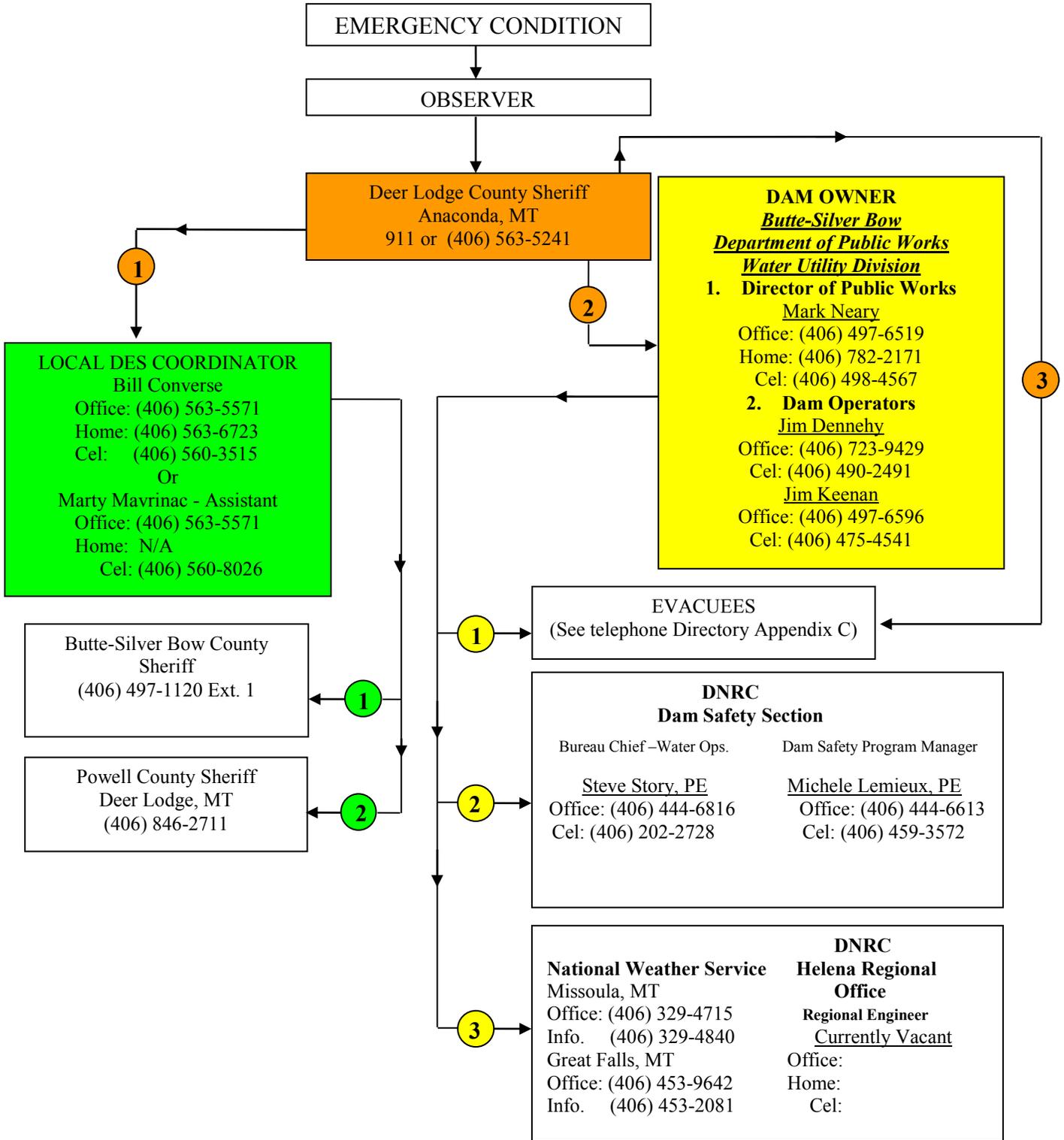
BSB Department of Public Works Water Utility Division will review/update this EAP annually. The EAP will be reviewed by a qualified professional engineer as required by the dam's operating permit no less than every five years.

II. NOTIFICATION PROCEDURES

A. Imminent or Actual Failure

If assistance is required to evaluate if a dam is threatened with imminent failure, advice can be sought from the Dam Safety Section of the Department of Natural Resources and Conservation (DNRC). If Storm Lake Dam is failing, two things must be done immediately: (1) the hazard area downstream from the dam must be evacuated, and (2) any steps that might save the dam or reduce damage to the dam or hazard area downstream should be taken. (Refer to the map in Appendix B to determine the areas that are likely to be inundated if the dam fails). The evacuation will be handled according to the county warning plan, and should be initiated as shown in Figure 1.

**FIGURE 1
STORM LAKE DAM
ACTUAL OR IMMINENT FAILURE
"NOTIFICATION FLOWCHART"**



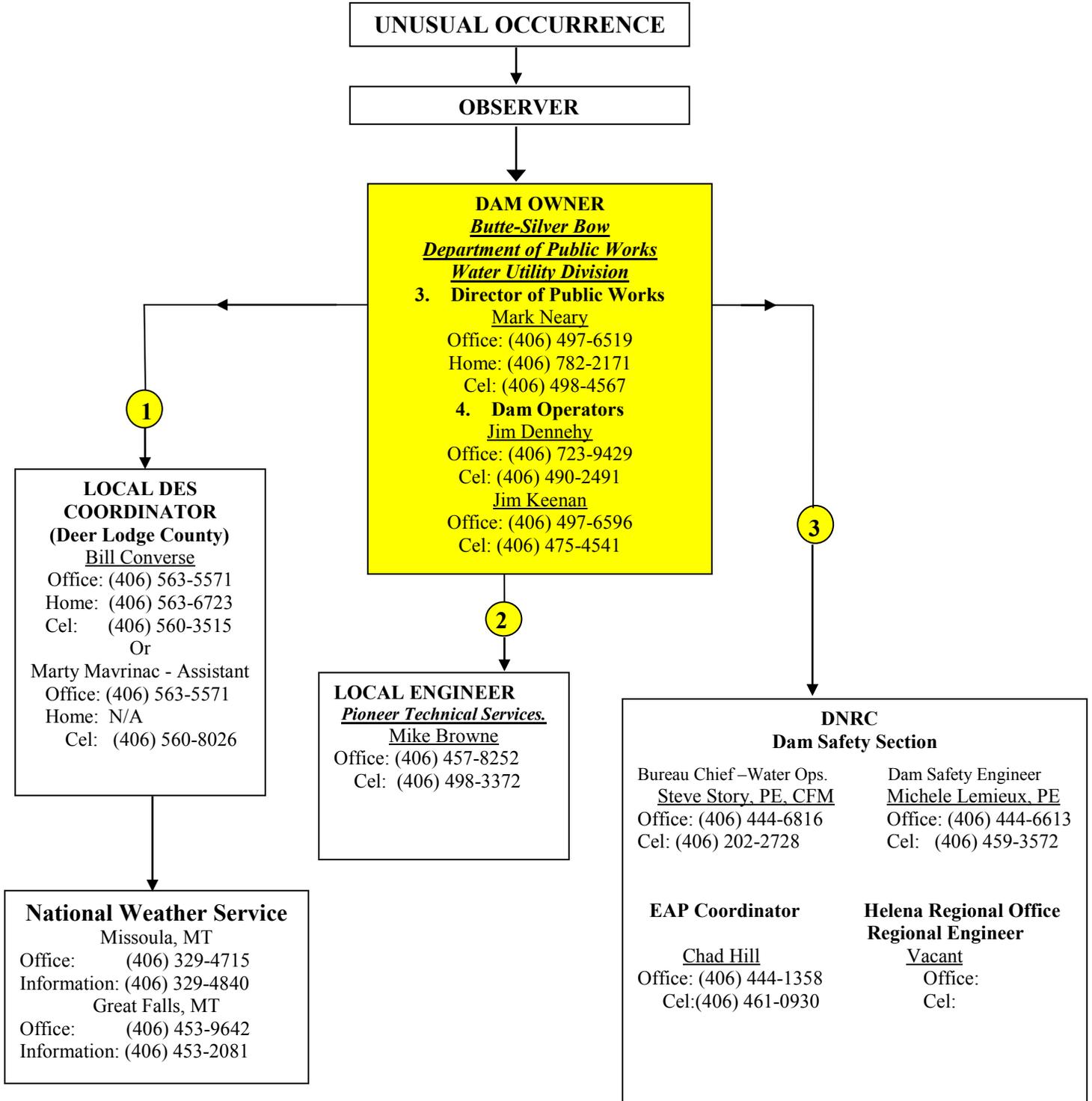
As dam owner, it is your responsibility to:

1. Call the Anaconda-Deer Lodge County Engineer at 563-4015 or 563-5241. He will call other authorities and the media and begin the evacuation.
2. Do whatever is necessary to bring anyone in immediate danger to safety. This includes someone on the dam, directly below the dam, boating on the reservoir, or evacuees if so directed by the chief of police.
3. Keep in frequent touch with the coordinator of Disaster and Emergency Services.
4. If all means of communication are lost:
 - a. Attempt to determine the cause of the failure of communications;
 - b. Try to locate another radio or telephone that is functional;
 - c. Get someone else to try to reestablish communications.

B. Potentially Hazardous Situation

A potentially hazardous situation is an event or condition not normally encountered in the routine operation of the dam and reservoir. Among the unusual occurrences that may affect the dam are dam embankment problems, failure of the outlet works, heavy precipitation or rapid spring snow melt, landslides, earthquakes, erosion, theft, vandalism, acts of sabotage, and serious accidents. These occurrences may endanger the dam, the public, or the downstream valley and may necessitate a temporary or permanent revision of the dam's operating procedures. Help in these situations can be obtained by notifying those people shown in Figure 2.

**FIGURE 2
STORM LAKE DAM
POTENTIALLY HAZARDOUS SITUATION
"NOTIFICATION FLOWCHART"**



1. If BSB Department of Public Works Water Utility Division personnel discover an unusual condition of the dam embankment that could threaten the structure, we will:
 - a. Perform necessary operating adjustments if required to reduce the seriousness of the situation.
 - b. Contact a qualified engineer inspect the dam as soon as possible to determine whether emergency action is necessary.
 - c. Notify the Anaconda-Deer Lodge Engineer Chas. Ariss (406) 563-4015.
 - d. Notify the county Disaster and Emergency Services Coordinator (406) 563-5571 of the potential problem.
 - e. Contact the Dam Safety Section of the Department of Natural Resources and Conservation (DNRC).

2. Among the conditions the dam maintenance personnel should watch for are:
 - a. Overtopping of the dam by flood waters
 - b. Loss of material from the dam crest due to storm wave erosion
 - c. Slides on either the upstream or downstream slope of the embankment as evidenced by:
 - (1). Sloughing
 - (2). Cracking
 - (3). Bulging
 - (4). Scarping

d. Erosional flows through, beneath, or around the embankment as evidenced by:

- (1). Excessive seepage
- (2). Discoloration of the seepage
- (3). Boils on the downstream side
- (4). Sinkholes
- (5). Changes in the flow from drains

e. Failure of the outlet or spillway due to clogging or erosion

f. Movement of the dam on its foundation as evidenced by:

- (1). Misalignment
- (2). Settlement
- (3). Cracking

3. When BSB Department of Public Works Water Utility Division calls either our engineer or the DNRC to report a problem, we will use the form in Appendix D to ensure sufficient information is provided to the DNRC for the engineer to analyze the problems. Section III includes further guidelines for courses of action to take to mitigate the effect of many problems.

C. Posting of the Notification Flowchart and Distribution of the EAP.

The Notification Flowchart is posted at the dam and a copy of the EAP is posted at the dam site. The Anaconda- Deer Lodge County Police Dept. and the DES Coordinator have copies of the plan.

III. MITIGATION ACTIONS

Besides normal monitoring of the dam's condition, which is done monthly when road conditions permit and weekly or daily as conditions warrant during the water storage season, BSB Department of Public Works Water Utility Division will provide continuous monitoring and inspection during and after extreme events such as storms and earthquakes. Information on the magnitude of an earthquake or storm can be obtained from the DNRC Dam Safety Section and from the Montana Bureau of Mines and Geology (496-4167). Actions are suggested below to mitigate problems that may develop, but those actions should never be continued at the risk of injury or at the expense of lessening efforts related to evacuation. Monitoring should identify any of the following potential problems.

A. Potential Problems and Immediate Response Actions

1. OVERTOPPING BY FLOOD WATERS

- a. Open outlet to its maximum safe capacity.
- b. Place sandbags along the crest to increase freeboard and force more water through the spillway.
- c. Provide erosion-resistant protection to the downstream slope by placing plastic sheets or other materials over eroding areas.
- d. Create additional spillway capacity by making a controlled breach in a low embankment or dike section where the foundation materials are erosion-resistant.

2. LOSS OF FREEBOARD OR DAM CROSS SECTION DUE TO STORM WAVE EROSION

- a. Place additional riprap or sandbags in damaged areas to prevent further embankment erosion.
- b. Lower the water level to an elevation below the damaged area.

3. SLIDES IN THE UPSTREAM OR DOWNSTREAM SLOPE OF THE EMBANKMENT

- a. Lower the water level at a rate and to an elevation considered safe, given the slope condition. If the outlet is damaged or blocked, pumping, siphoning, or a controlled breach may be required.
- b. Stabilize slides on the downstream slope by:
 - (1). weighting the toe area with additional soil, rock, or gravel, and then
 - (2). restoring lost freeboard by placing sandbags at the crest.

4. EROSIONAL FLOWS THROUGH THE EMBANKMENT, FOUNDATION, OR ABUTMENTS

- a. Plug the flow with whatever material is available (hay bales, bentonite, or plastic sheeting if the entrance to the leak is in the reservoir basin).
- b. Lower the water level until the flow decreases to a non-erosive velocity or stops.
- c. Place a protective sand-and-gravel filter or boil ring over the exit area to hold materials in place.

5. FAILURE OF APPURTENANT STRUCTURES

- a. Implement temporary measures to protect the damaged structure, such as closing an outlet or protecting a damaged outlet or spillway discharge with riprap.
- b. Lower the water level to a safe elevation. If the outlet is inoperable, pumping, siphoning, or a controlled breach may be required.

6. MASS MOVEMENT OF THE DAM ON ITS FOUNDATION (SPREADING OR MASS SLIDING FAILURE)

- a. Immediately lower the water level until excessive movement stops.

7. EXCESSIVE SEEPAGE AND HIGH LEVEL SATURATION OF THE EMBANKMENT

- a. Lower the water to a safe level.
- b. Continue frequent monitoring for signs of slides, cracking or concentrated seepage.

8. EXCESSIVE SETTLEMENT OF THE EMBANKMENT

- a. Lower the water level by releasing it through the outlet, pumping, siphoning, or a controlled breach.
- b. If necessary, restore freeboard, preferably by placing sandbags.

B. Emergency Supplies and Resources

Material suitable for riprap to be accessed in an emergency situation is located on the west side of the dam. The large talus slope provides excellent material for riprap and is immediately adjacent to the dam.

C. Local Contractors and Engineers

Local Contractors:

Jordan Contracting (Anaconda, MT)(406) 563-8276

Ed McCarthy, (Jordan Contracting – Anaconda)..... Cel: (406) 691-0103

Bob Lash, (Jordan Contracting – Butte) Cel: (406) 691-0102

In an extreme emergency, end loaders, dozers, and other heavy equipment are available from the following:

Silver Bow County Maintenance Shop, Butte,(406) 497-6565

Jocko Stajcar(406) 497-6569

Jocko Stajcar (mobile)(406) 560-7895

Engineers:

Pioneer Technical Services (Helena, MT)..... (Office) (406) 457-8252

Brad Archibald, P.E. (Home) (406) 494-6549
..... (Cel) (406) 490-3032

Mike Browne, P.E. (Cel) (406) 498-3372

Dam Operations, Butte-Silver Bow Water Utility Division

Jim Dennehy(Office) (406) 723-9429

..... (Cel) (406) 490-2491

APPENDIX A
TECHNICAL DATA
FOR
STORM LAKE DAM

Technical Data for Storm Lake Dam

Location of Dam:

Section 30, T4N, R13W, MPM; Approx. 9 miles south of Highway 10A near Silver Lake and approximately 14.5 miles southwest of West Valley, Anaconda, Mt.

Height of Dam: **29 feet**

Length of Dam Crest:..... **500 feet**

Crest Width: **13 to 17 feet**

Slope of Upstream Face of Dam (Horizontal to Vertical): (variable)**3.5: 1.0 to 1.5: 1**

Slope of Downstream Face of Dam (Horizontal to Vertical): **1.5: 1**

Spillway Capacity:**520 cubic feet per second**

Outlet Capacity:**16 cubic feet per second**

Outlet Works: 14-inch diameter steel pipe enclosed in masonry culvert operated by two gate valves in series on the discharge side of the outlet works.

Reservoir Capacities

Maximum Capacity as Measured To The Lowest Dam Crest Elevation
(East Dam, 8325.2 ' local datum):.....**2,132 acre-feet**

Reservoir Capacity Measured To The Spillway Elevation
(8322.0):**1,900 acre-feet**

Reservoir Capacity Measured To The Normal Pool Target Elevation
(8310.0'):**1,027 acre-feet**

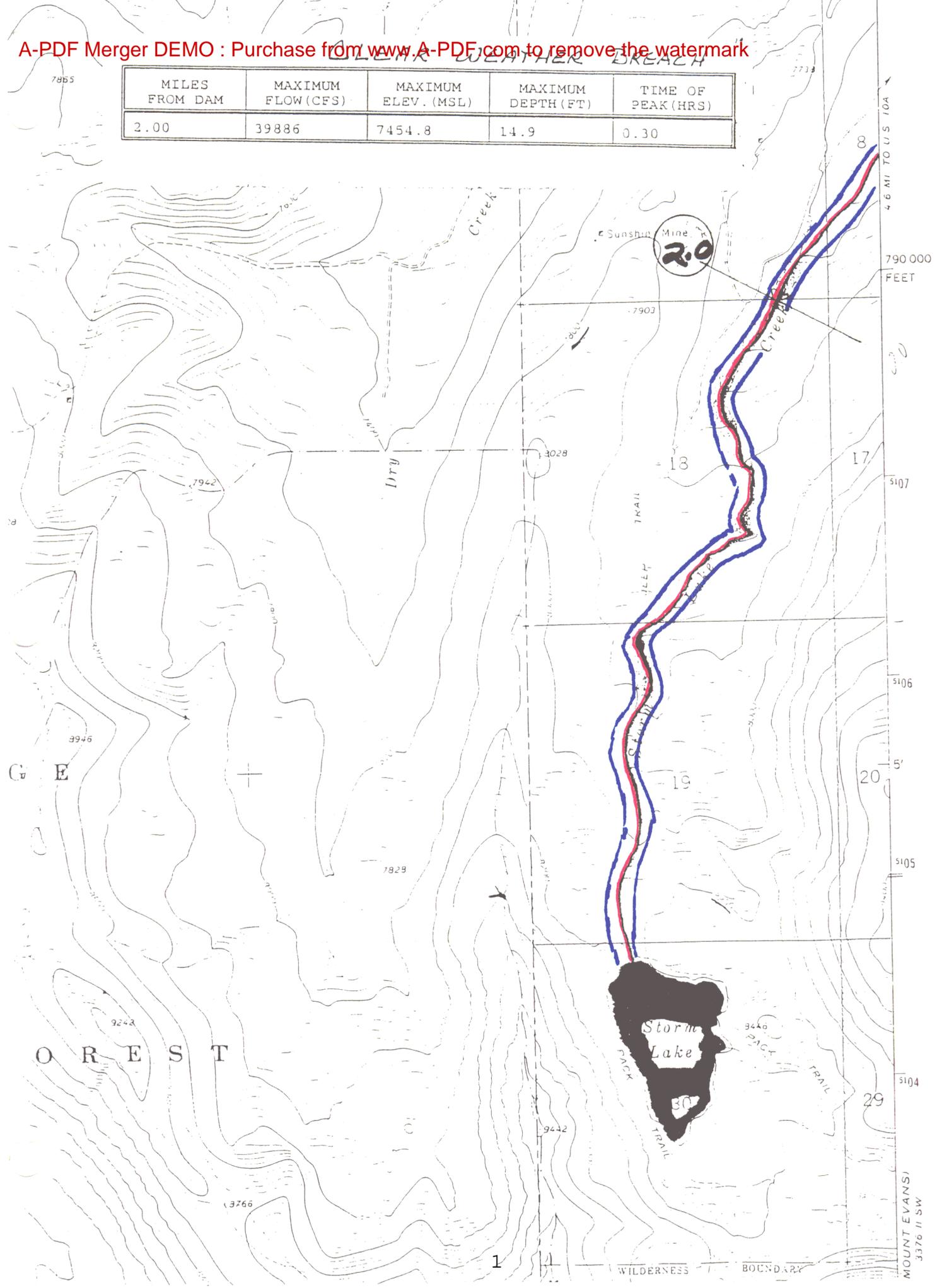
Flood Pool to First Overtopping **1,105 acre-feet**

Flood Surcharge Storage from Normal Pool To Spillway Elevation
(8322.0'):**873 acre-feet**

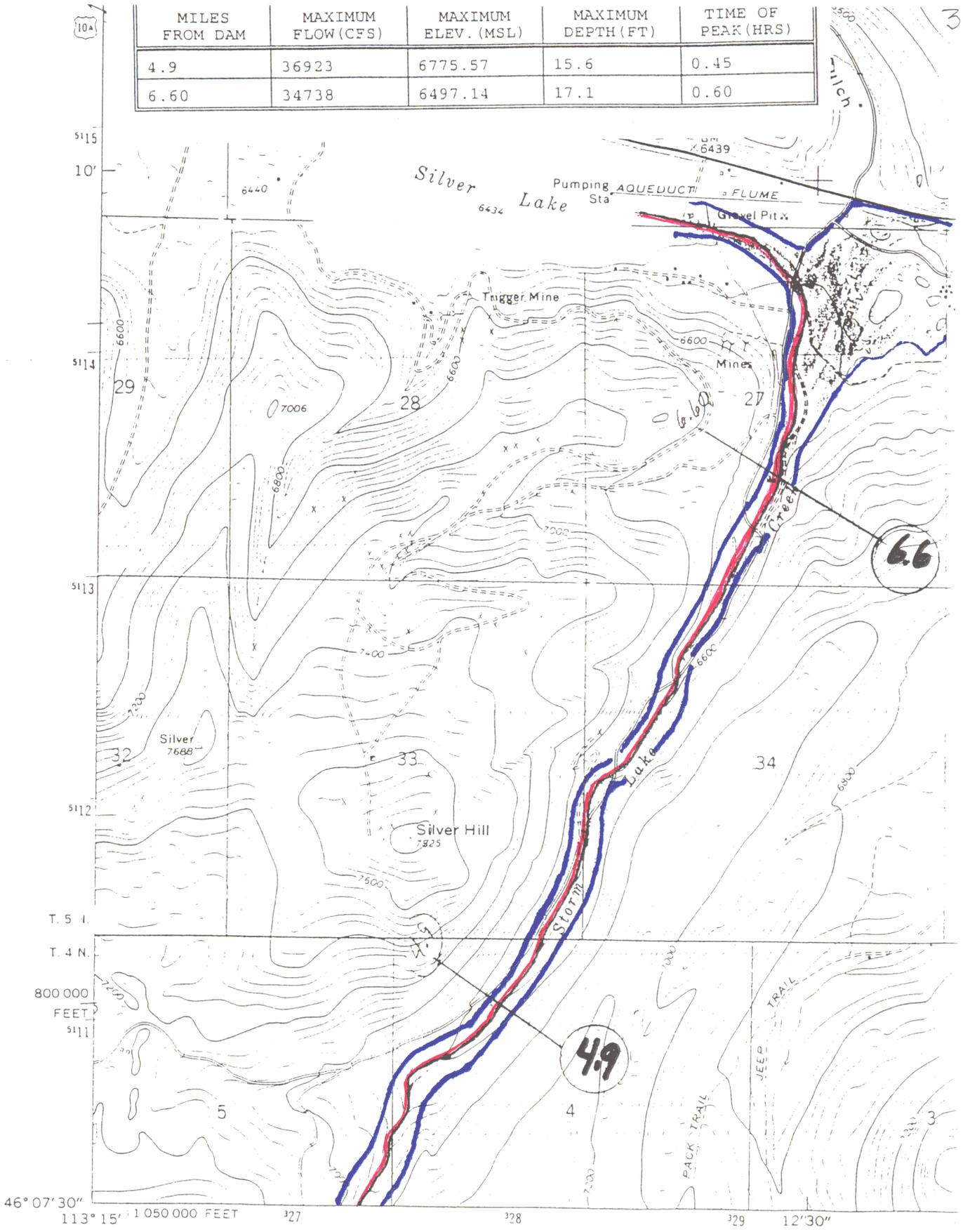
Probable Maximum Flood Volume: **753 to 880 acre-feet**

APPENDIX B
INUNDATION AND EVACUATION MAPS

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
2.00	39886	7454.8	14.9	0.30

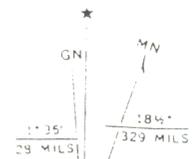


MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
4.9	36923	6775.57	15.6	0.45
6.60	34738	6497.14	17.1	0.60

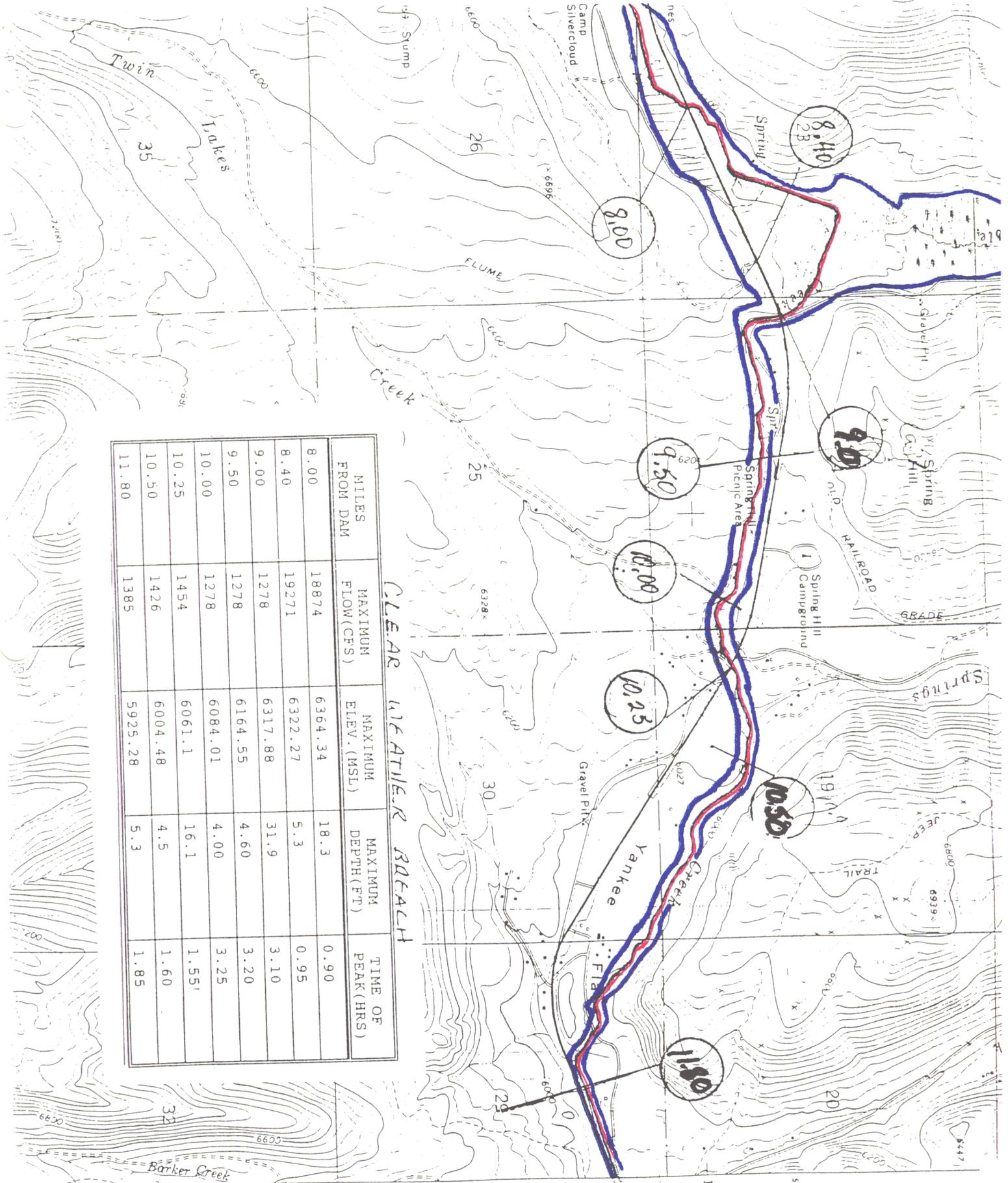


(STORM LAKE)
3376 III SE

Mapped by the U. S. Forest Service
 Edited and published by the Geological Survey
 Control by USGS, USC&GS, and U. S. Forest Service
 Topography by photogrammetric methods from aerial
 photographs taken 1964. Field checked by USGS 1971
 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Montana coordinate system,
 south zone
 1000-meter Universal Transverse Mercator grid, 3
 zone 12, shown in blue



UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



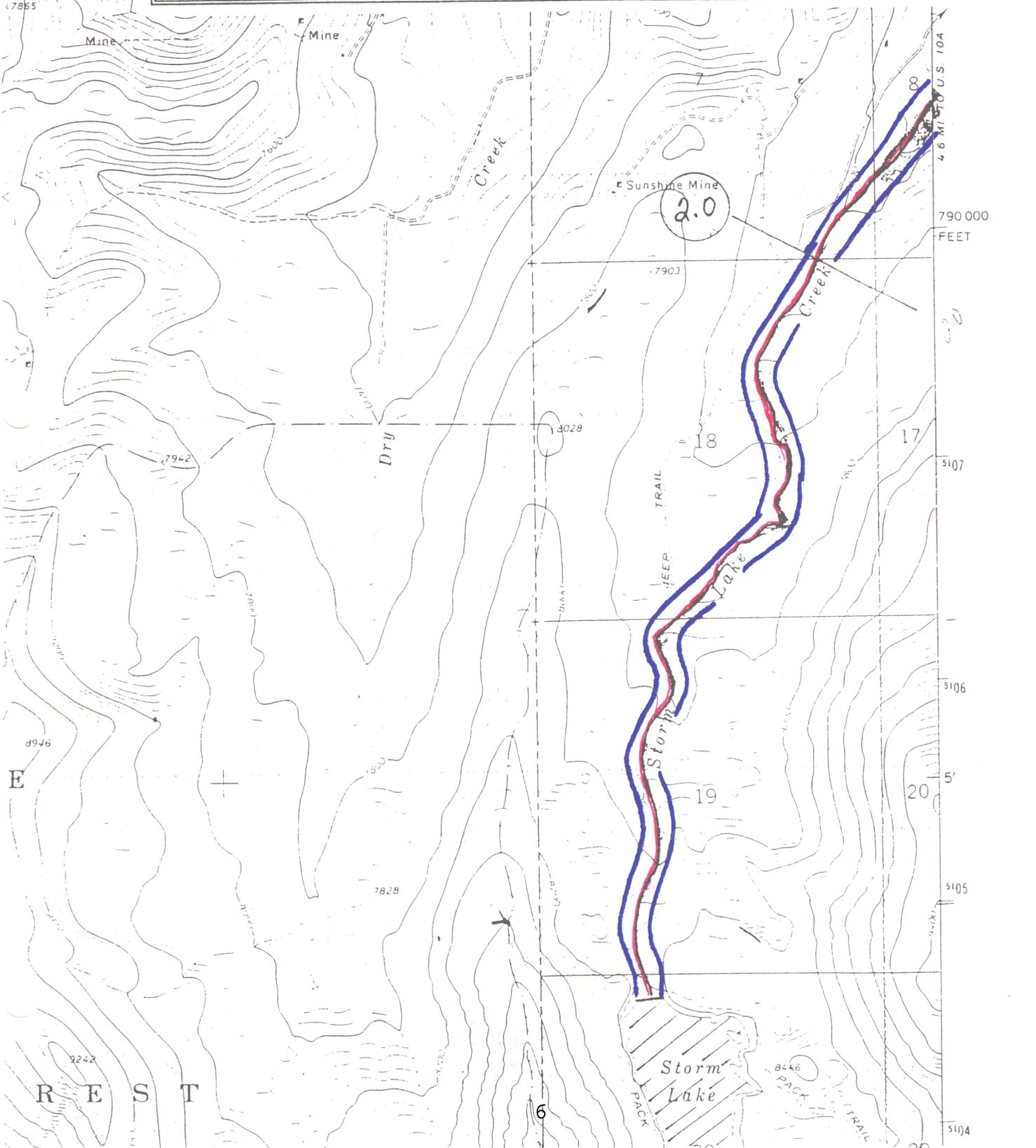
CLEAR UP ATTILER REACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
8.00	18874	6364.34	18.3	0.90
8.40	19271	6322.27	5.3	0.95
9.00	1278	6317.88	31.9	3.10
9.50	1278	6164.55	4.60	3.20
10.00	1278	6084.01	4.00	3.25
10.25	1454	6061.1	16.1	1.55
10.50	1426	6004.48	4.5	1.60
11.80	1385	5925.28	5.3	1.85

17'30" 1040000 FEET R. 13 W. 113° 15' 46' 07" 30"

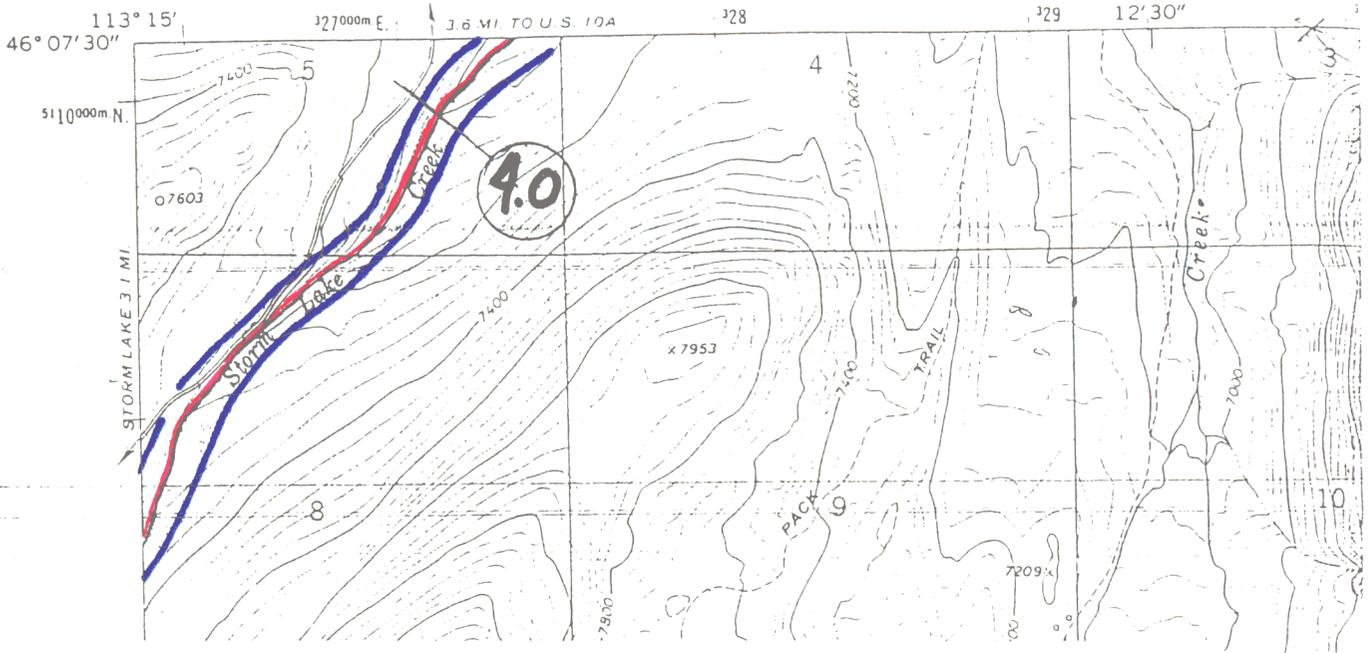
STORM INDUCED BREACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
2.00	54083	7454.0	14.0	0.32



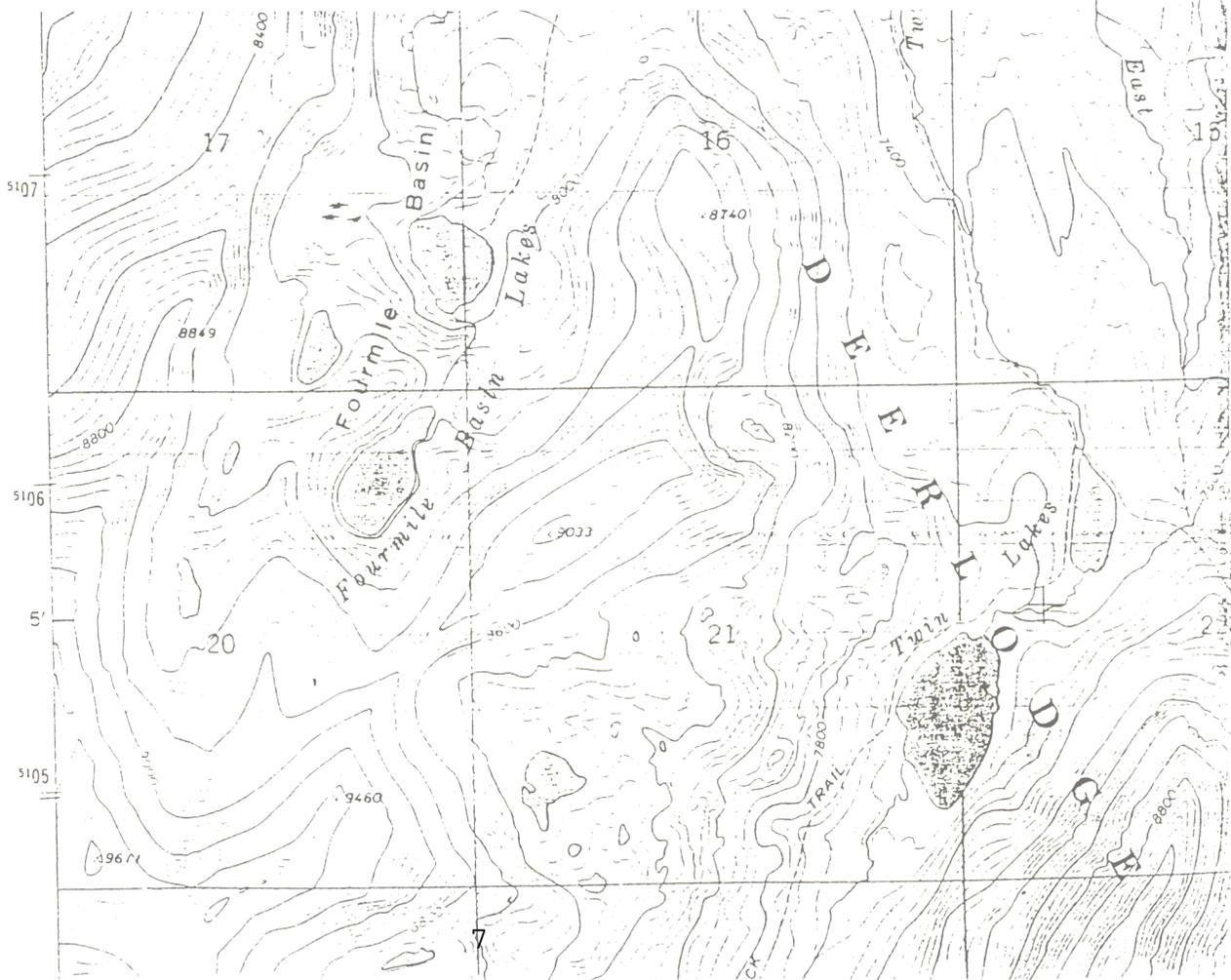
3375 III NE
 (GEORGETOWN LAKE)

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY



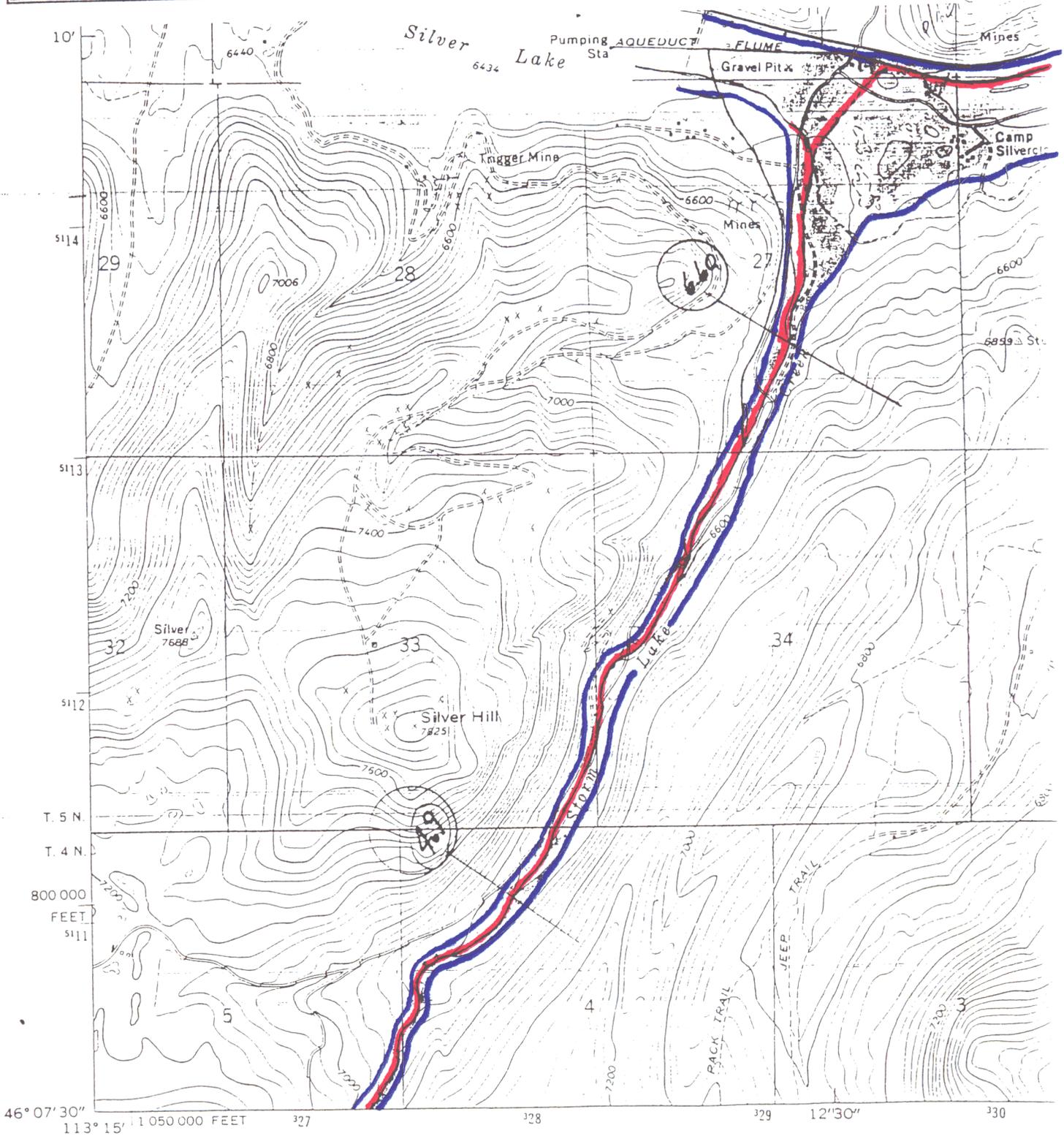
STORM INDUCED BREACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
4.00	55123	7015.5	15.5	0.36



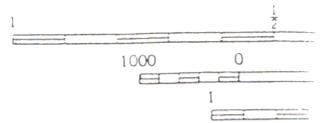
STORM INDUCED BREACH

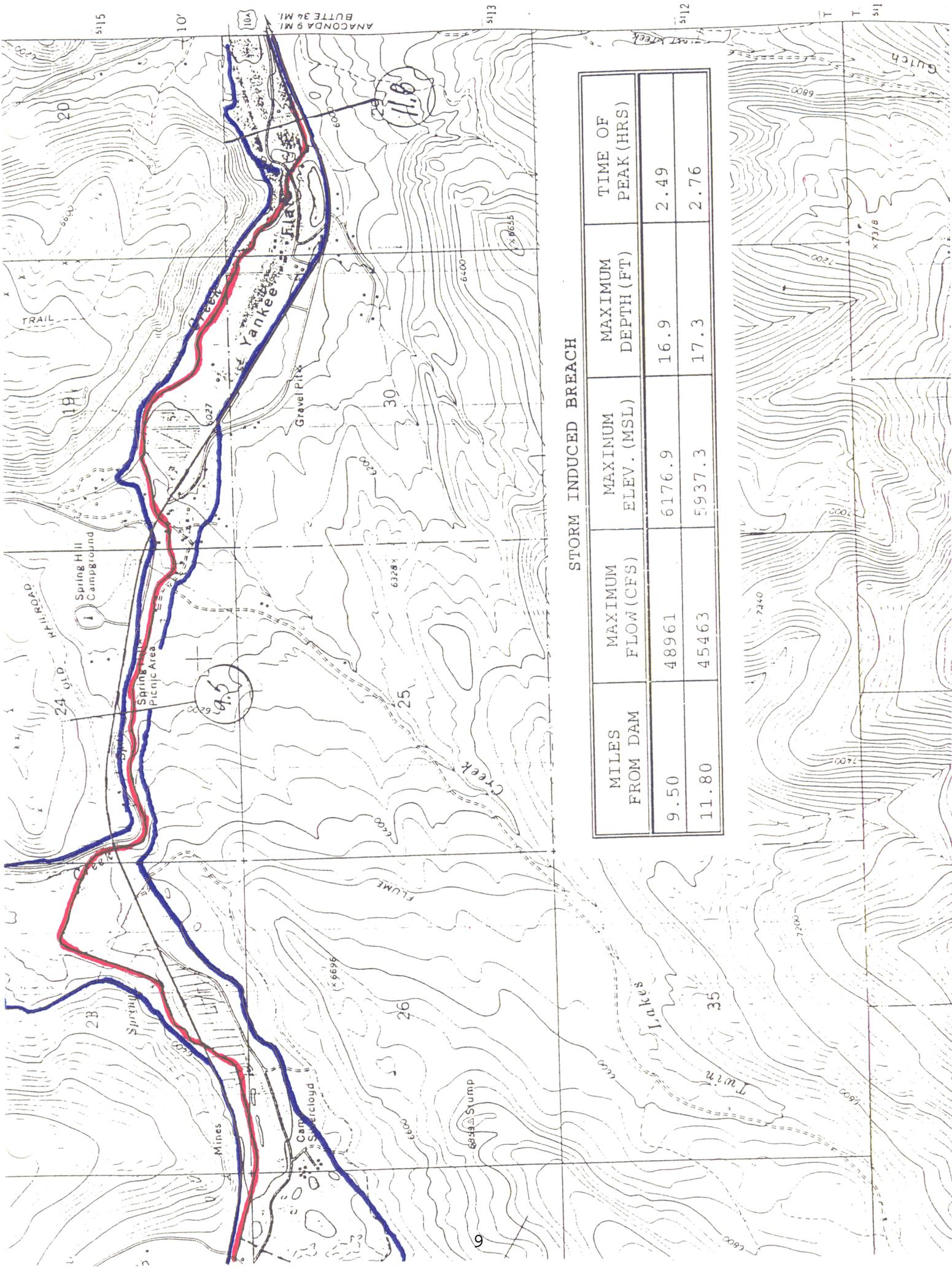
MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
4.90	55748	6675.6	15.6	0.42
6.60	51921	6497.0	17.0	0.59



(STORM LAKE)
3376 III SE

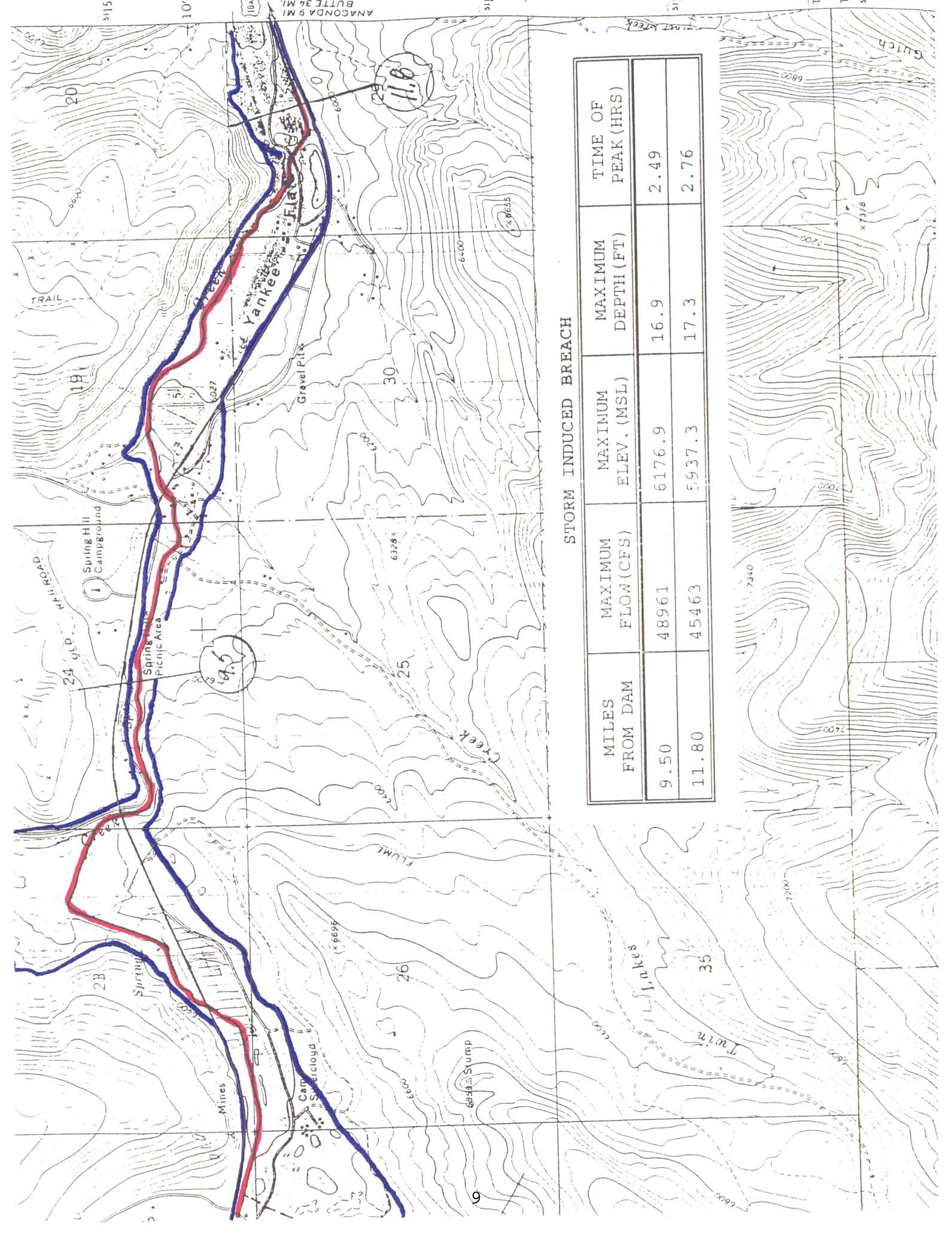
Mapped by the U. S. Forest Service
 Edited and published by the Geological Survey
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 Polyconic projection. 1927 North American datum
 10,000-foot grid based on Montana coordinate system
 south zone

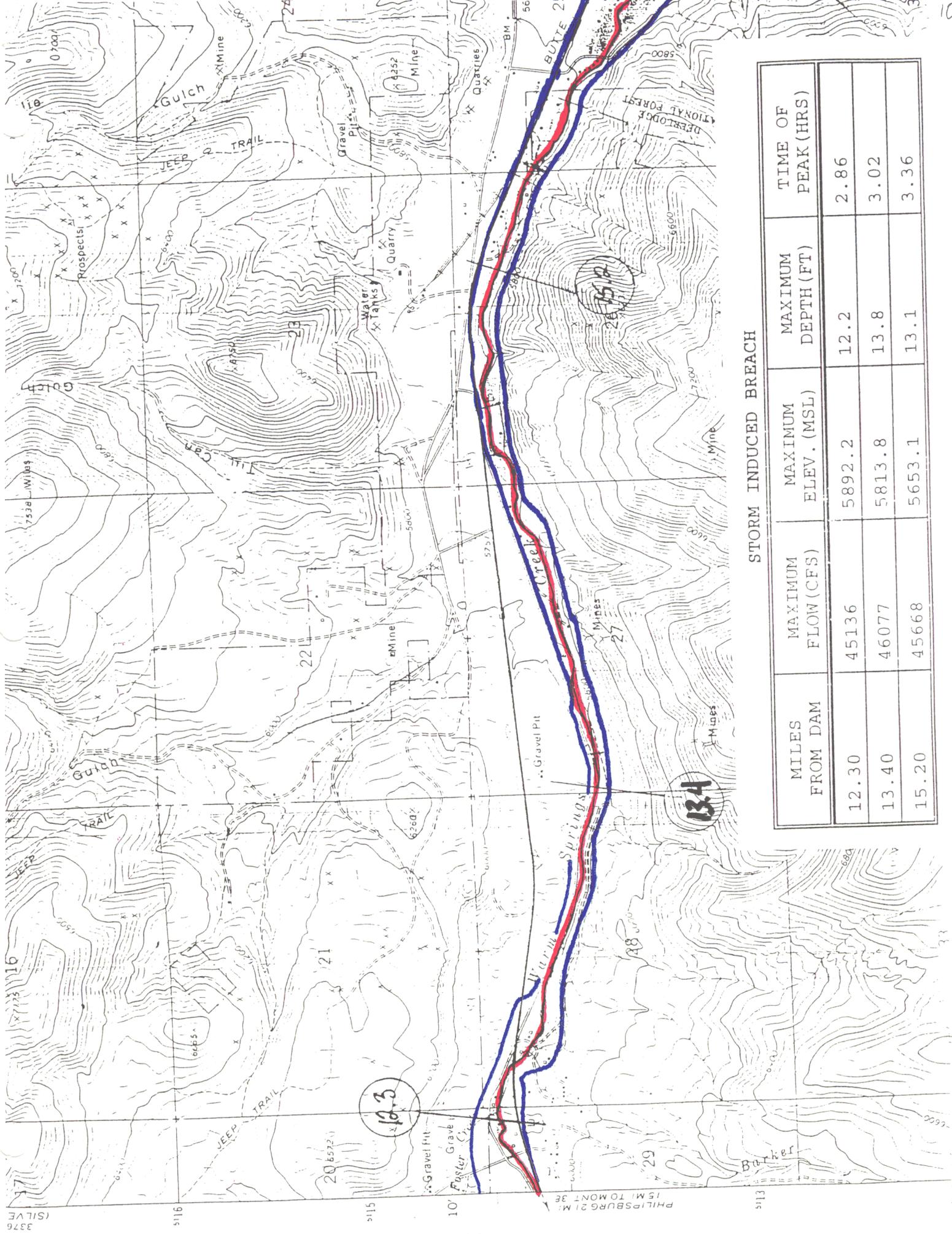




STORM INDUCED BREACH

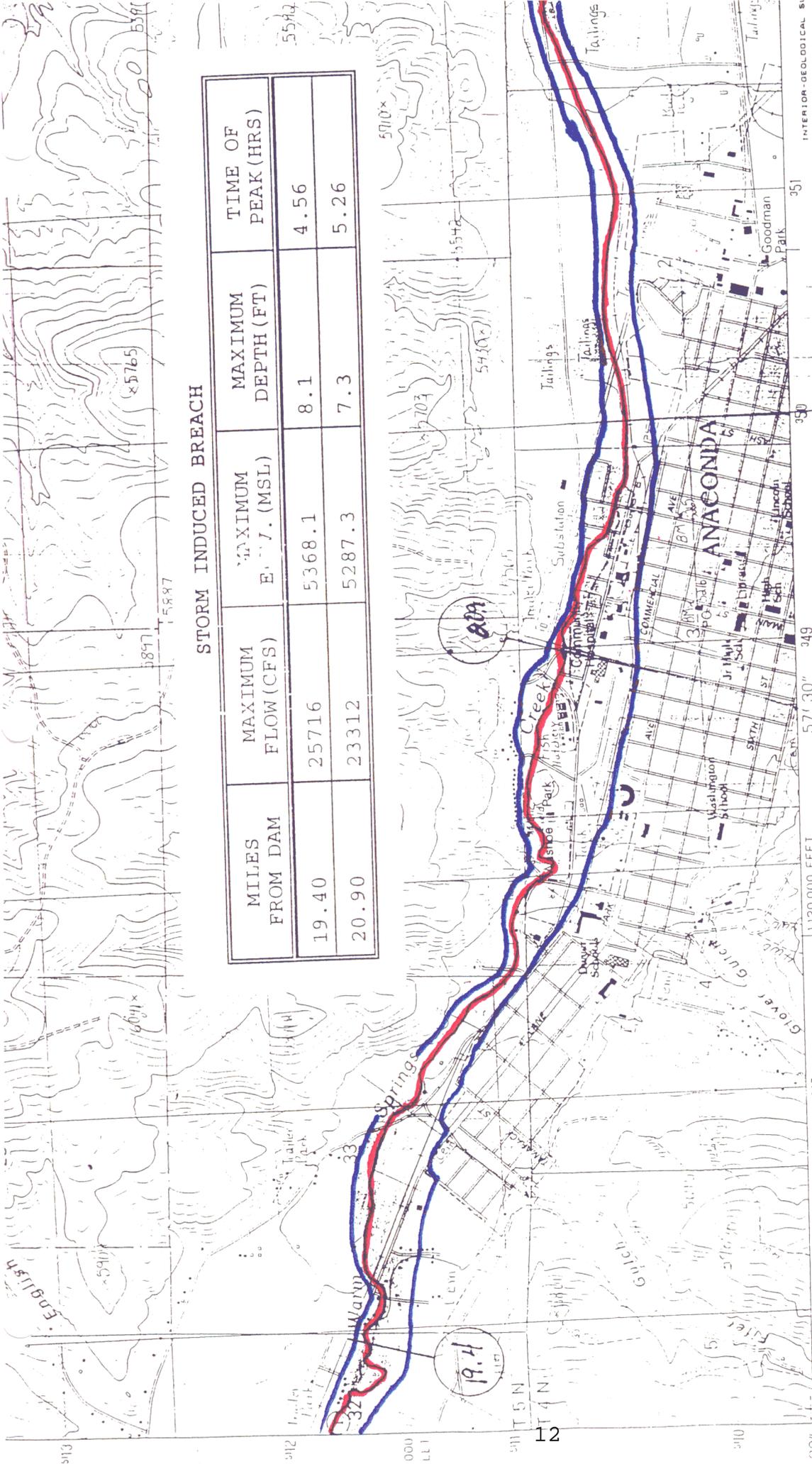
MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
9.50	48961	6176.9	16.9	2.49
11.80	45463	5937.3	17.3	2.76





STORM INDUCED BREACH

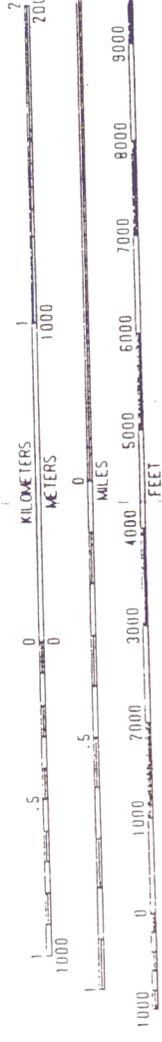
MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
12.30	45136	5892.2	12.2	2.86
13.40	46077	5813.8	13.8	3.02
15.20	45668	5653.1	13.1	3.36



STORM INDUCED BREACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
19.40	25716	5368.1	8.1	4.56
20.90	23312	5287.3	7.3	5.26

SCALE 1:24 000



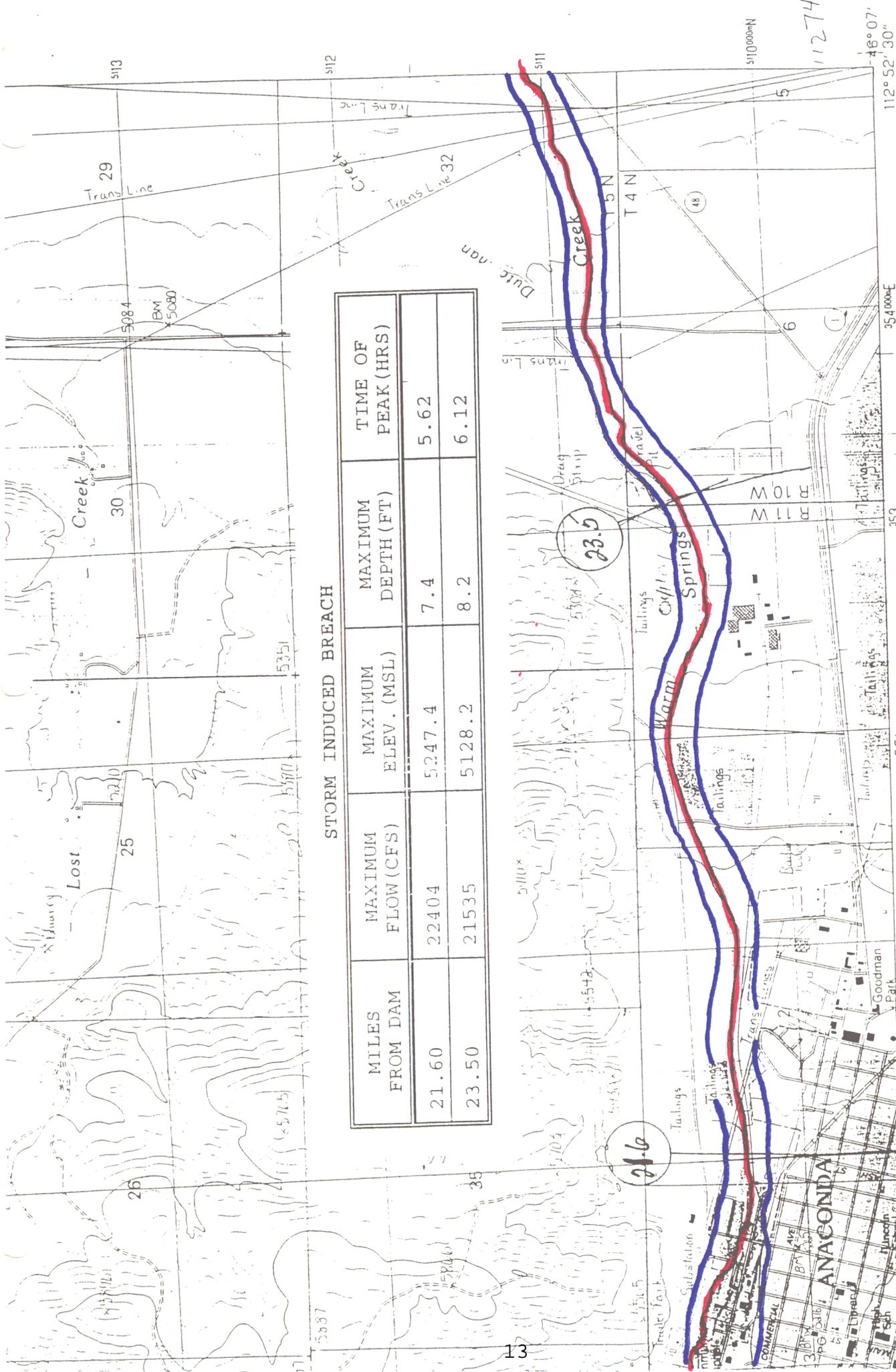
CONTOUR INTERVAL 40 FEET

PROVISIONAL MAP
 Produced from original manuscript drawings. Information shown as of date of

USED BY THE UNITED STATES GEOLOGICAL SURVEY
 COL BY USGS NOS/NOAA AND USFS
 ED FROM AERIAL PHOTOGRAPHS TAKEN 1956
 1961
 REVISION FROM AERIAL PHOTOGRAPHS TAKEN 1985 AND 1986
 CHECKED 1987 MAP EDITED 1989
 TION LAMBERT CONFORMAL CONIC
 000-METER UNIVERSAL TRANSVERSE MERCATOR ZONE 12
 10 000 FOOT STATE GRID TICKS MONTANA, SOUTH ZONE
 ID DECLINATION 1°24' EAST
 MAGNETIC NORTH DECLINATION 16°30' EAST
 AL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ONAL DATUM 1927 NORTH AMERICAN DATUM
 ce on the predicted North American Datum of 1983,
 the projection lines as shown by dashed corner ticks

To convert feet to meters multiply by .3048
 To convert meters to feet multiply by 3.2808

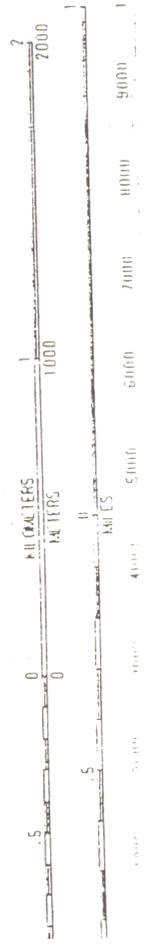
THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS



STORM INDUCED BREACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
21.60	22404	5247.4	7.4	5.62
23.50	21535	5128.2	8.2	6.12

SCALE 1:24 000



INTERIOR GEOLOGICAL SURVEY, RESTON, VIRGINIA-1989



ROAD LEGEND

- Improved Road
- Unimproved Road
- Trail

QUADRANGLE LOCATION

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

APPENDIX C
TELEPHONE DIRECTORY

TELEPHONE DIRECTORY

A. Priority One

1. Butte-Silver Bow Public Works Water Utility Division

a. Operations Manager: Butte-Silver Bow Water Utility Division

Jim Dennehy (Office) (406) 723-9429

.....(Cel) (406) 490-2491

b. Silver Lake Pump Station(406) 563-6066

c. Meyers Dam.....(406) 563-6919

d. Georgetown Dam: Northwest Energy System

Operations Control Center (406) 494-4131

1. EMERGENCY NUMBER911

Deer Lodge County Police.....911 OR (9:00 A.M.-5:00 P.M.) (406) 563-5241

2. DISASTER AND EMERGENCY SERVICES

a. Deer Lodge County.....(Office) (406) 563-5571

Bill Converse.....(Home) (406) 563-6723

..... (Cel) (406) 560-3515

Marty Mavrinac - Assistant.....(Home) N/A

..... (Cel) (406) 560-8026

b. MT Disaster and Emergency Services Division (Helena)

.....(406) 324-4777

3. EVACUEES

- a. Evacuees will be encouraged to sign up for NIXEL First Alert System to be notified electronically if required. Local authorities (First Responders, Police, etc.) will setup barricades and go door – to – door to notify residents.

B. Priority Two

4. LOCAL ENGINEERS

a. Pioneer Technical Services (Helena, MT).....(Office) (406) 457-8252

b. Mike Browne, P.E.....(Cel) (406) 498-3372

- c. Pioneer Technical Services (Butte, MT)(Office) (406) 782-5177
 Brad Archibald, P.E.(Home) (406) 494-6549
 (Cel) (406) 490-3032

5. MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

- a. Dam Safety Section.....(Office) (406) 444-6613
- b. Steve Story P.E., Bureau Chief..... (Home) (406) 444-6816
 (Cel) (406) 202-2728
- c. Michele Lemieux, P.E.(Office) (406) 444-6613
 (Cel) (406) 459-3572
- d. Chad HillOffice) (406) 444-1358
 (Cel) (406) 461-0930
- e. Larry Schock, Regional Engineer
 (Missoula Regional Office)(Office) (406) 542-5885
 (Home) (406) 721-2073
 (Cel) (406) 360-1632
- f. Vacant, Regional Engineer
 (Helena Regional Office).....(Office) (406) 444-9724

6. NATIONAL WEATHER SERVICE

- Great Falls, MT(406) 453-9642
- Information (406) 453-2081
- Missoula, MT(406) 329-4715
- Information (406) 329-4840

7. LOCAL CONTRACTORS

- a. Jordan Contracting (Anaconda, MT)..... (406) 563-8276
 Ed McCarthy, (Jordan Contracting –Anaconda)...Cel: (406) 691-0103
 Bob Lash (Jordan Contracting).....Cel: (406) 691-0102
- b. Jim Gilman Excavating Inc., (Butte, MT).....(406) 723-8324

In an extreme emergency, end loaders, dozers, and other heavy equipment are available from the following:

- a. Silver Bow County Maintenance Shop, Butte,(406) 497-6565
- b. Ask for Jocko Stajcar.....(406) 497-6569
..... Cel: (406) 560-7895

- 8. BUREAU OF LAND MANAGEMENT (406) 533-7600
- 9. MONTANA DEPARTMENT OF STATE LANDS..... (406) 444-2074
- 10. U.S. FOREST SERVICE, REGIONAL ENGINEERING OFFICE.....(406) 494-2147

APPENDIX D
DAM INCIDENT REPORT FORM

DAM INCIDENT REPORT FORM

DATE _____ TIME _____

NAME OF DAM _____

STREAM NAME _____

LOCATION _____

COUNTY _____

OBSERVER _____

OBSERVER TELEPHONE _____

NATURE OF PROBLEM _____

LOCATION OF PROBLEM AREA (Looking Downstream) _____

EXTENT OF PROBLEM AREA _____

FLOW QUANTITY AND COLOR _____

WATER LEVEL IN RESERVOIR _____

IS SITUATION WORSENING? _____

EMERGENCY STATUS _____

CURRENT WEATHER CONDITIONS _____

ADDITIONAL COMMENTS _____
