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CO-OP MINING CO.

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Phone (801) 467-4003

August 26, 1983

RECEIVED
AUG 31 1983
DIVISION OF
OIL, GAS & MINING

JIM
SEP 02 1983

SUBMITTAL

This submittal is in answer to the Division response on Aug. 18,1983 regarding the scale area modification, and NOV N83-5-7-1

Wendell Owen

Wendell Owen

UMC 783.24 Maps: General requirements

The July 18, 1983 submittal again fails to respond to the deficiency noted in the Division's June 16, 1983 letter. Please submit an accurate map indication the boundary between Beaver Creek Coal Company and the COP Coal Development properties.

Co-op Reply: We are enclosing a copy of that portion of the July 18, 1983 submittal that includes the Co-op response to that alleged deficiency. The Co-op did, in fact, respond. The Co-op has submitted a map of the legal boundary between the two properties referred to. The map contains a reference to four(4) brass cap markers at legally located section corners or section quarters. Each survey line is clearly marked as to direction and distance. It contains a survey description, and is certified to be correct by a registered surveyor who holds a certificate as prescribed by the State of Utah. According to two conversations I have had with Ev Hooper, the problem seems to be concerning the coordinate lines marked on the map. The Division staff is of the opinion they are incorrect. When Ev first told me that, I talked to the surveyor and asked him if he would please recheck the coordinate lines on his map. He checked them and told me they were correct. He explained most maps for general use used sea level coordinates as it would be economically not feasible to adjust maps for the entire earth for the altitude at all points. He said he had adjusted the coordinates on his map for the average altitude of the site surveyed. This would explain what appeared to the Division to be a mistake. He said there are standard formulae for making this adjustment. I am sure the Division engineer would have access to this information also. If the Division does not think the coordinates are accurate, the maps reference to the known locations is sufficient to make it a legal document and meet the requirements of UMC 783.24. We have included another copy of this map.

There is a disagreement between Emery County and Co-Op Mining Company on the ownership of the road leading up Bear Canyon. This difference needs to be clarified.

CO-OP REPLY:

The disposition of the road leading to the permit area and that small portion of road within the permit area is presently under negotiation with Emery County Commissioner Bevin Wilson. The Co-Op anticipates this issue to be resolved during the Commisioners meeting on July 21st. In the event this course of action does not bring about a satisfactory solution, there is a suit presently filed against Emery County which ultimately will bring this area of controversy to a conclusion.

The Co-Op will keep the UDOGM abreast of this situation as it developes. In the interum, the Co-Op Mining Co. requests approval of the balance of the modifications so as to allow construction of the Scale area to proceed.

The Co-Op will abide by the decision of the negotiations and/or the court case. However, in order to minimize risk to the environment, and to maximize suitable construction conditions, the Co-Op requests this portion be tabled in the interum.

UMC 783.24 Maps: General Requirements

(b) The applicant failed to respond to this section when asked for an accurate map indicating the boundary between Beaver Creek Coal Company and Cop Coal Developments properties.

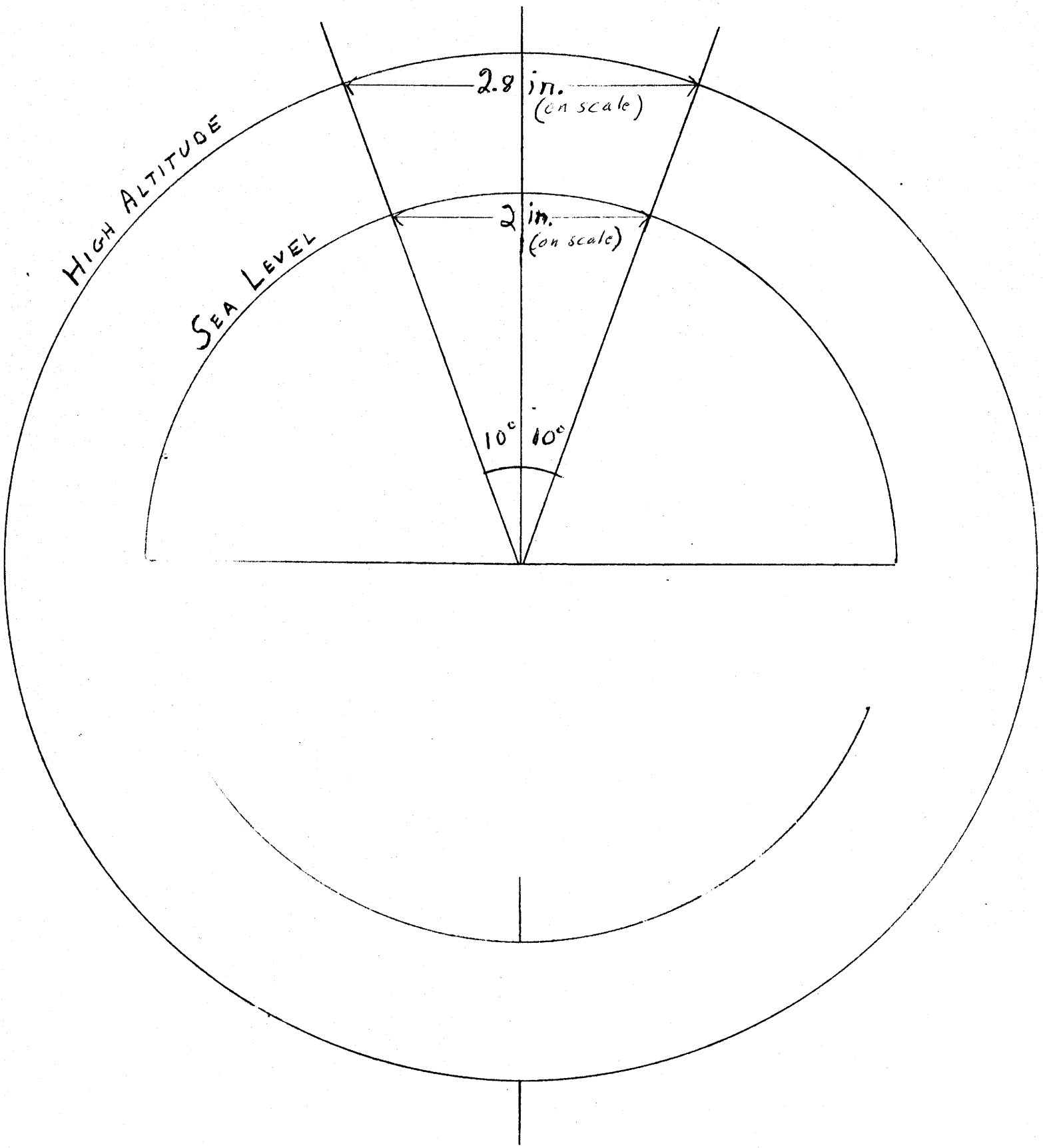
CO-OP REPLY:

In order to certify a map, the certifier must make corrections in the coordinate lines to allow for the altitude of the area shown on the map. Maps for general purchase and use that are not certified,

use sea level coordinates. This would explain what appeared to be a mistake in the certified map submitted to the Division by the applicant with the scalehouse modification submittal.

UMC 817.43 Hydrologic Balance: Diversions and Conveyance of Overland Flow, Shallow Ground Water Flow and Ephemeral Streams

UMC 783.24 Example of variation in coordinate lines with altitude.



UMC 817.43 Hydrologic Balance: Diversions

The culvert crossing the road conveying the drainage from disturbed area B will need to carry a volume of 2 cfs. The existing 15" culvert is adequate.

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Prepared under the direction of
Harold Wimmer, Professional Engineer
by Wendell Owen

Wendell Owen

The calculations used to arrive at the volume of 2 cfs will be forwarded by Mr. Wimmer.

ROGM1 -

REF: August 18th letter NOV N83-5-7-1

MODIFICATION DIFICIENCIES

UMC 817.44 Hydrolgic Balance: Stream Channel Diversions

The methodology which the Co-Op Mining Co. contemplates implementing upon final abandonment and reclamation of that portion of Bear Creek in the vacinity of the Scale house are as follows:

1. To use a large track mounted excavator in conjunction with a small backhoe and crawler tractor to remove the 60' culvert and to regrade the opposing banks on approximately a 3 to 1 slope to facilitate revegetation and to enhance the establishment of a riparian zone. (Note fig. 1 for the present stream configuration and projected after reclamation).

2. To construct small holding ponds along the channel utilizing native materials. The actual methodology is to incorporate 2 logs approximately 10 to 14" in diameter, trench into the bank back approximately 10' on both sides of the creek channel, secure the logs together in a stacked manner with 36" anchor bolts, buried for approximately 10 feet with approximately 36" of fill material decreasing to 0" as the stream channel is approached. An 18" wide by 5" deep notch cut along the top of the upper log in the center of the creek channel, to create a centralized spill-way. Once the logs are secured into the channel, rock rip-rap should be laid on the up stream side to a height equal to the height of the log retainer and continued up stream for a distance of 36" decreasing in height so as to be level with the original rip-rapped channel. Then by utilizing a backhoe, a pit approximately 3' in diameter should be dug at the fall line of the spillway and lined with large rock 2' +. The log-pond configuration should be repeated at approximately 50' intervals along the course of the creek channel to create a stepped configuration along the area of disturbance.

   The intent of the holding ponds created by the log-rock dam is to fill with sediment and minimize the down stream migration

of this potentially detrimental source of silt and convert it into a potentially beneficial, enriched, growth media to facilitate the enlargement and establishment of riparian vegetation. Over a course of time the water holding capability of the ponded area will decrease as the ponds fill with sediment, however, the small ponds at the base of the spillway should remain relatively free from sediment and due to the small surface areas and depth, they will hold water over an extended period during dry seasons. A diagram is attached for your review. (See fig. 2).
The methodology is one which has been successfully implemented by myself on various areas to facilitate both water holding and enhancement of riparian zones and has been proven successful.

UMC 817.44 Paragraph 2

A 93-R and a 404 permit have been applied for. See appendix "A", and a copy of the approvals will be forwarded to your office on our recieval.

UMC 817.47 Hydrologic balance: Catch Basin

The attached plate of the catch basin supercedes any previous submittal for the catch basin and incorperates the change in design as we discussed in our meeting of Aug. 24, 1983, and referred to in the Co-op Mining submittal of Aug. 25, 1983
As indicated on the plate, the elevation of the overflow is at high water elevation at 7075' -- 6' above the excavated bottom elevation. There will be a 1' minimum freeboard, which will make the overflow channel 4' wide and 1' in depth, or a cross sectional area of 4 sq. ft. This is more than 100% oversizing of Mr. Wimmers recommendation of an 18' pipe (see Horrocks Engineers hydrology calculations, reference #6). Rip rap sizing will be the same as in the Horrocks calculation as in reference #9.

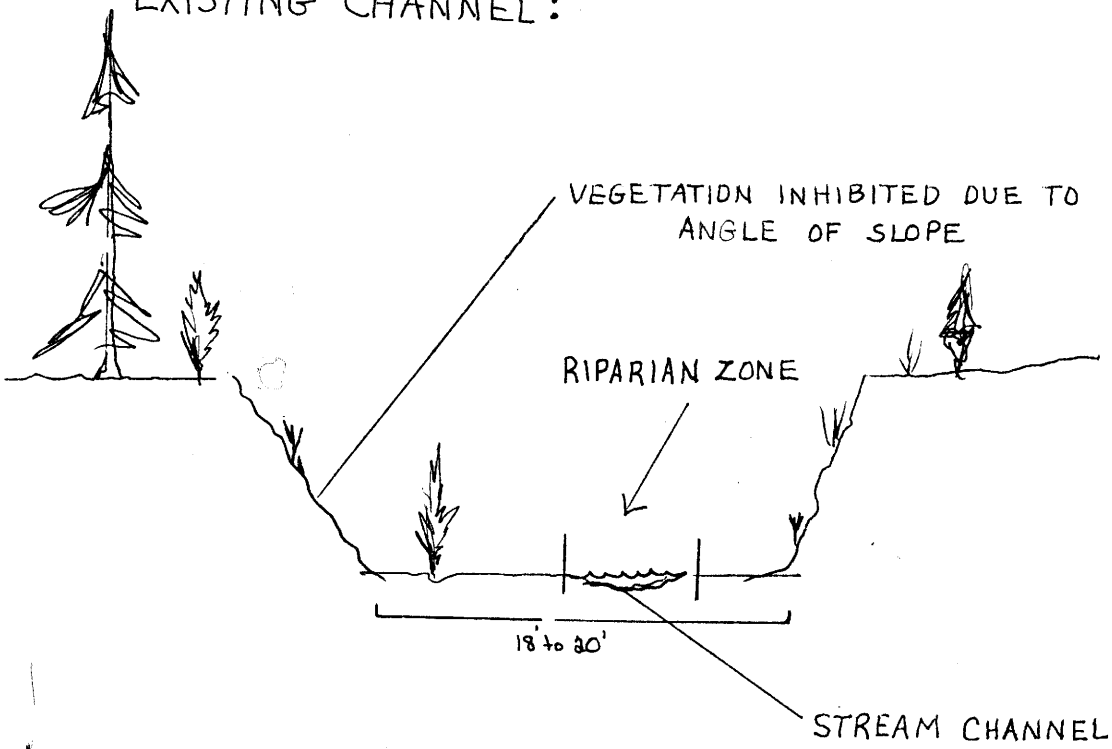
UMC 817.47 Hydrologic Balance

Co-Op is committed to use 12+ material in lieu of D-50 unless The Division of Oil, Gas, & Mining recommends an alternative.

UMC 817.103 Covered Coal & Acid & Toxic Forming Materials

The sample was taken from that portion of Trail Canyon which Co-Op anticipates final reclamation in the near future. The specific site was at the toe of the slope where coal was historically stockpiled, approximately 800' above the Load-out facility.
The additional data is attached under appendix B

EXISTING CHANNEL:



RECLAIMED CHANNEL:

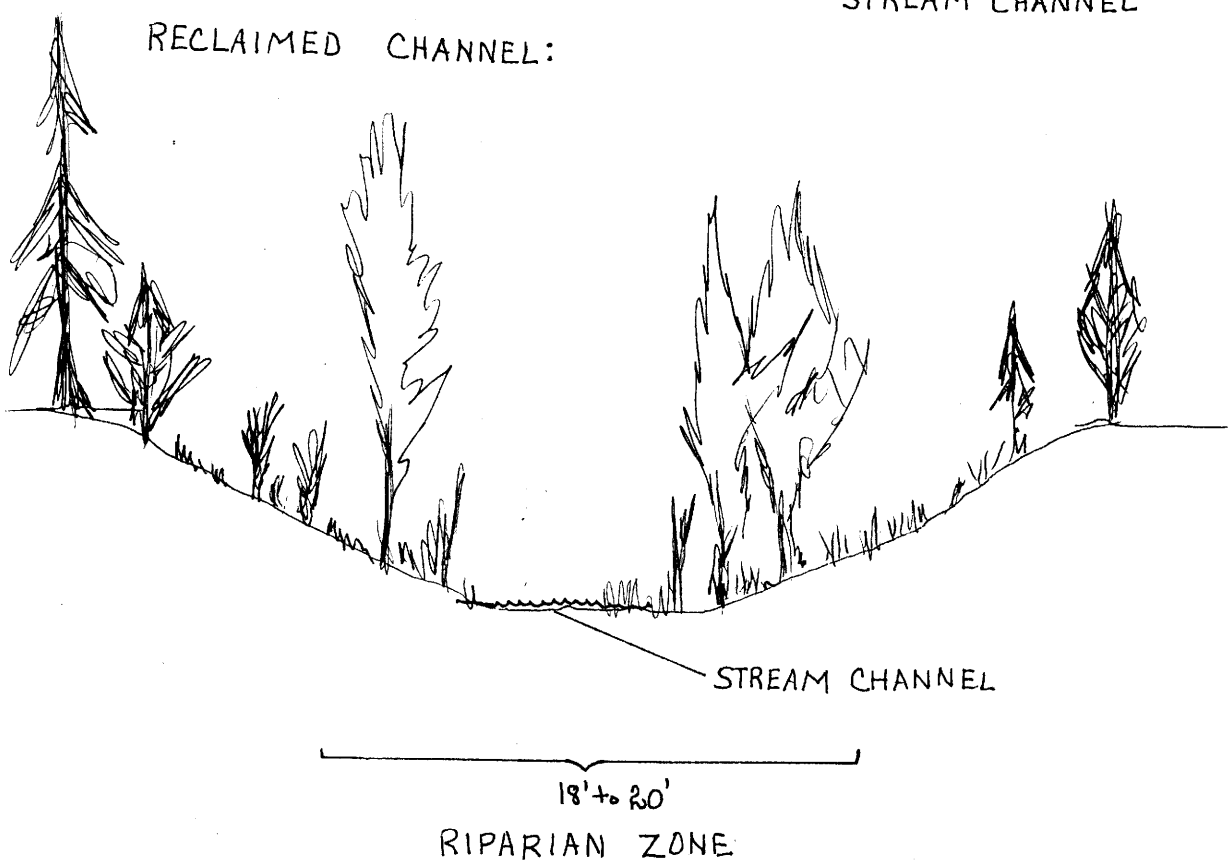


Fig. 1

STREAM ENHANCEMENT STRUCTURE

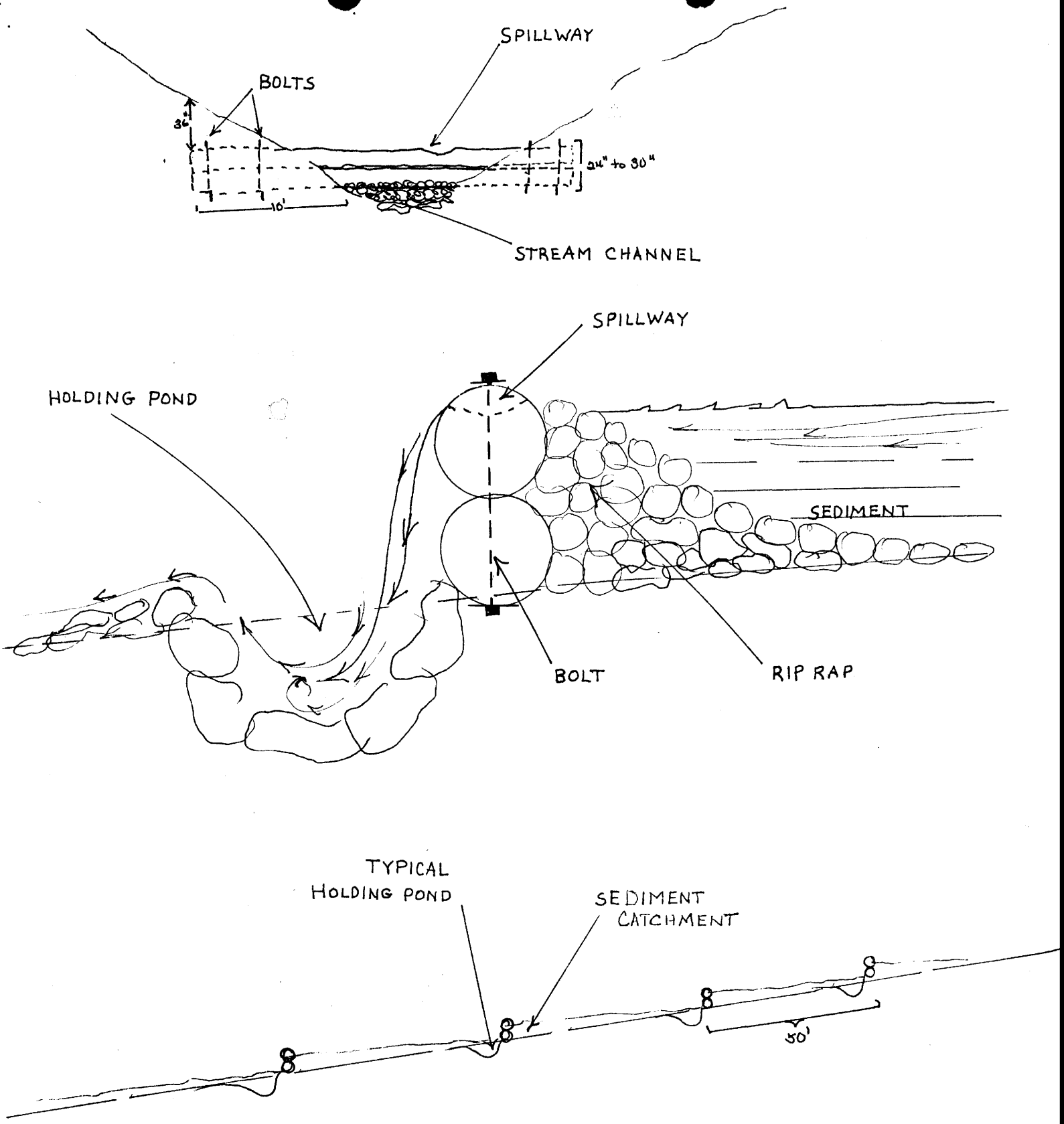
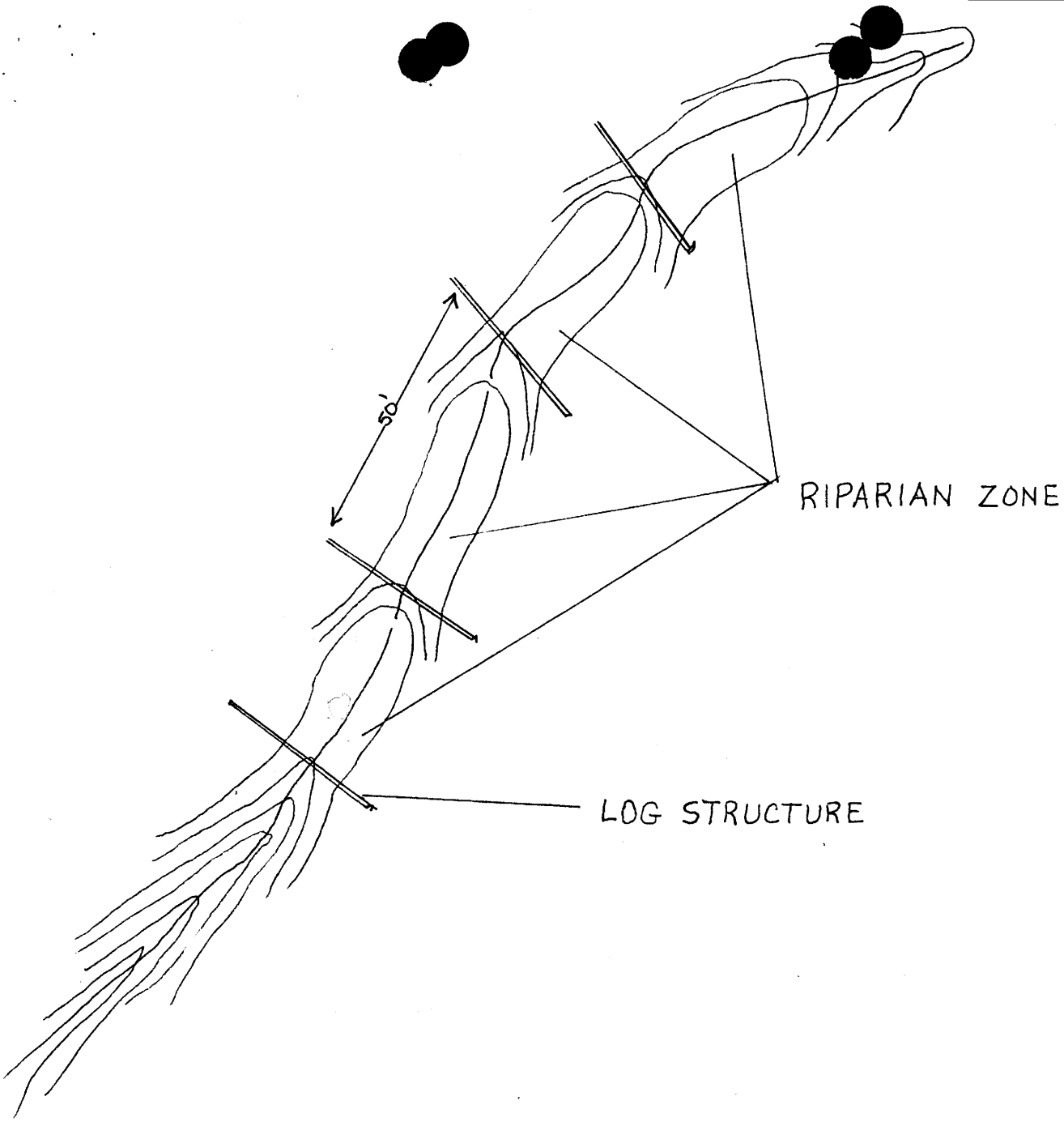


Fig. 2



ENHANCED STREAM CHANNEL

Fig. 2-A

ATTACHMENT A