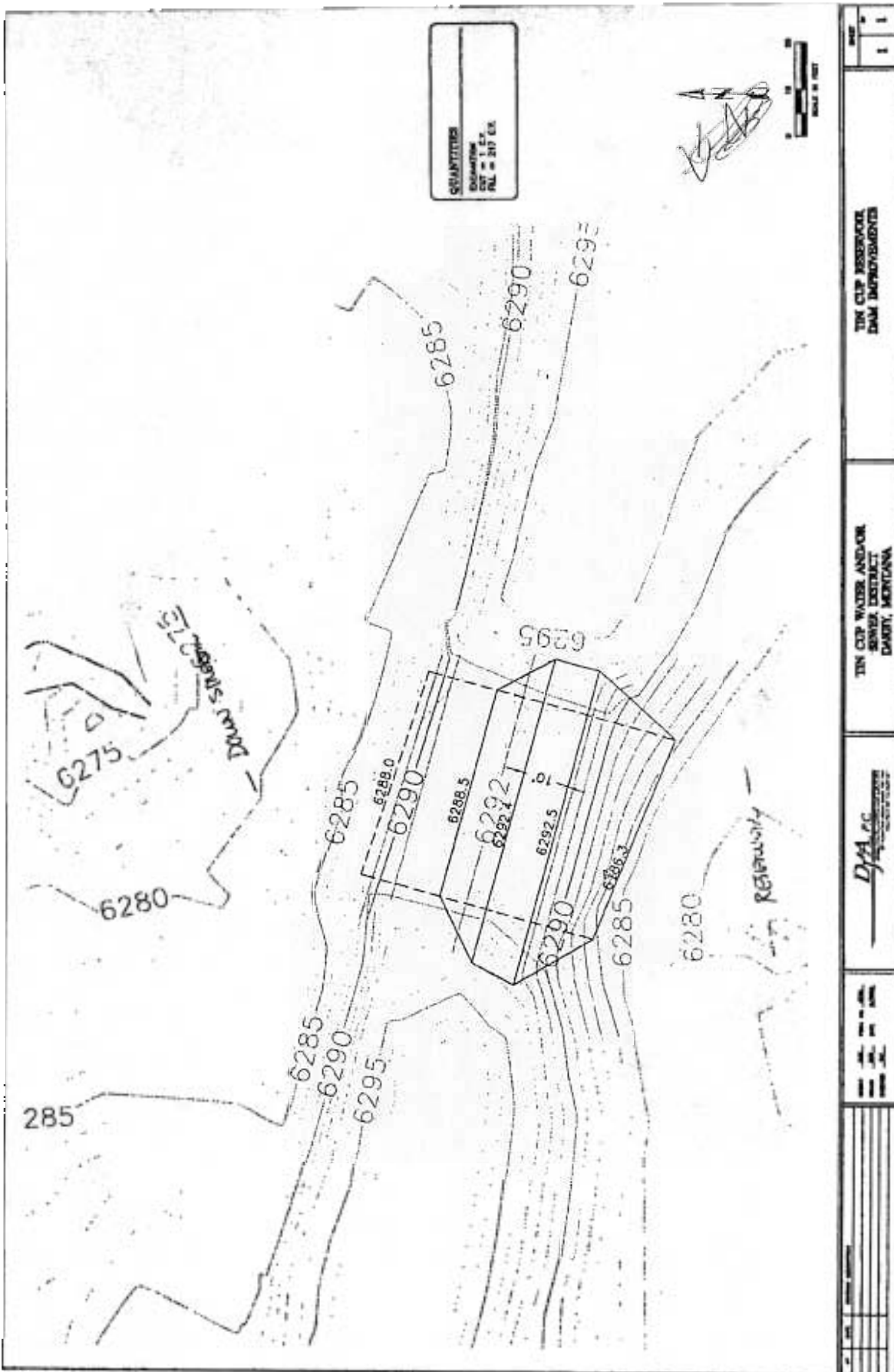


*Presented to FS. & Discussed at 8/27/03 meeting with
Tin Cup representatives & engineers*

The Tin Cup Board proposes the following work to be completed at the Tin Cup Dam site during September and October 2003:

1. Remove and stockpile the existing rip-rap on the dam breach crest under the proposed raised breach footprint for reuse on the proposed raised dam breach.
2. Excavate the sink hole to a maximum depth of 6' or to the bottom if an actual hole is found. Refill and compact the sink hole with bentonite and/or site fill material whichever is warranted due to site conditions.
3. Raise the dam breach elevation from 6186.3 to 6192.5 (or 6.2 feet) on the upstream breach crest and from 6187 to 6192.4 (or 5.4') on the down stream breach crest. The width and length of the proposed new beach crest would be 10' by 69'.
4. proposed dam breach raise would be keyed into the existing dam breach crest via a 2' deep x 4' wide excavation and replacement upstream of the existing dam crest.
5. The side walls of the proposed dam breach fill will be step keyed into existing break side slopes.
6. A portion of the existing dam crest (± 200 C.Y.) is proposed to be utilized as fill in the breach. The fill material will be excavated from the 1st 50' on each side of the crest. Additional fill will be taken from the previously established upstream waste area located west of the breach.
7. An impervious geotextile fabric will be placed in the new fill and in the excavated key in the existing breach crest. The fabric will be placed at a 1:1 slope from elevation ± 6284 to ± 6292 across the existing breach area.
8. Rip-rap or concrete slabs (2'x1'x5') will be replaced over the new proposed upstream face and rip-rap will be placed on the breach crest, 2 feet up each side and on the down of the upstream face of the new breach to match into the existing rip-rap on the existing breach.

In addition to the dam breach work, the Board proposed to construct a new spillway log boom to form a triangle in shape with the apex approximately 100 feet north of the existing northern most log boom. The triangle "tails" will be fixed to blocks of concrete or rock set on or west of the island west of the spillway and on the upstream dam face at or above elevation 6191.5. The northern most log boom will be used as a portion of the new proposed and templet for the new triangle shaped log boom.



	TIN CLIP WATER AND/OR SEWER DISTRICT DARTY, MONTANA	TIN CLIP RESERVOIR DAM IMPROVEMENTS
--	---	--