

Canyon Lake Dam Maintenance Project
Public Works Department – City of Rapid City
Project No. DR04-1433
Bareis Engineering, Inc.

Final 01/31/06

CONSTRUCT FILTER BERM – IN LIVE STREAM

SCOPE OF WORK

General:

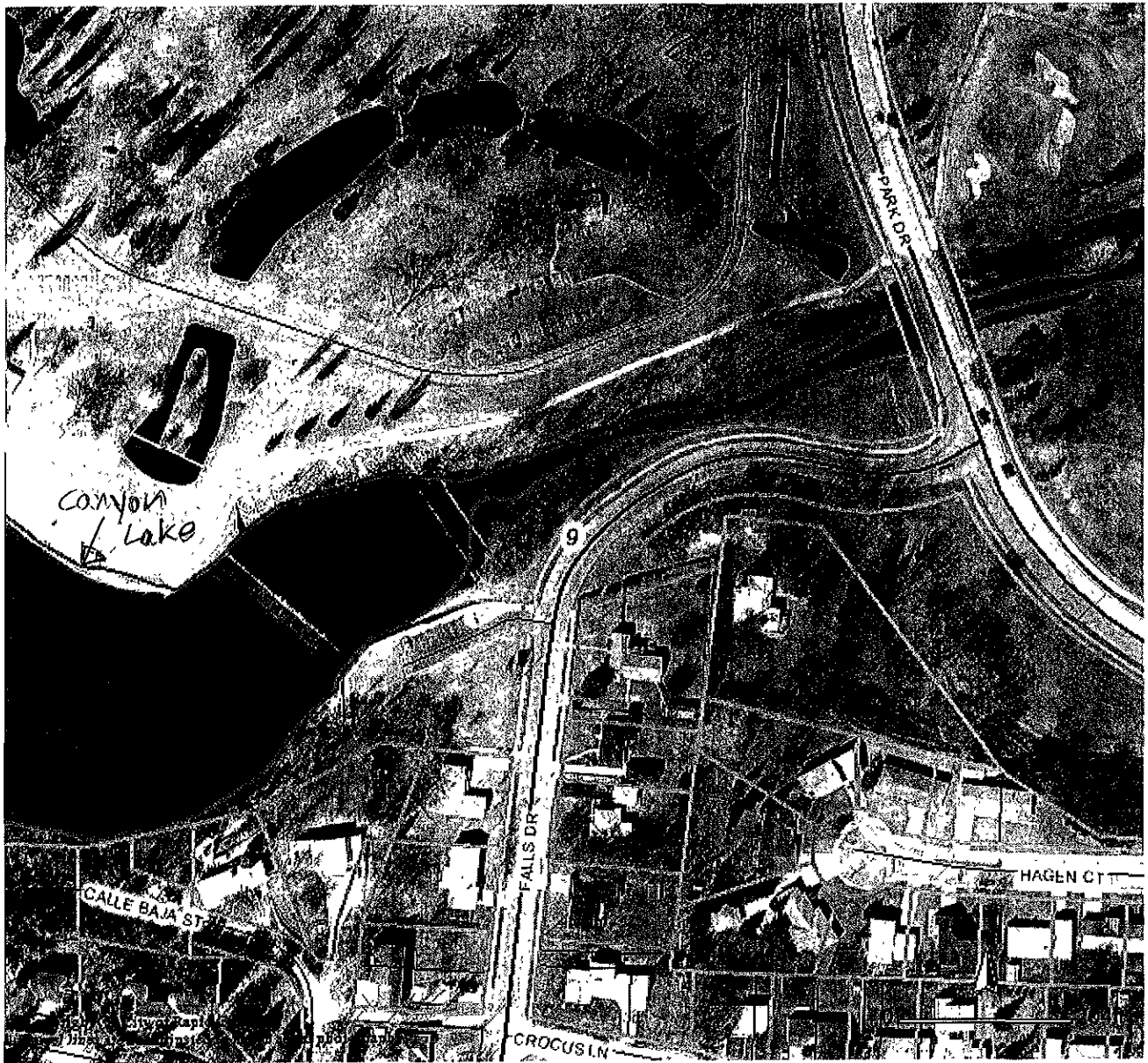
There is one large seep (sand boil) and several smaller ones located in the stilling basin downstream of the Canyon Lake Dam spillway. The large seep is estimated to be producing between 200 and 300 gpm at full lake level (based on a 1986 inspection report). The large seep needs to be covered with coarse rock and riprap to prevent piping of foundation materials from beneath the spillway. Ideally the spillway stilling basin would be dewatered so the seep could be inspected and the work performed in relatively dry conditions. However, because of concerns with transport of sediment into Rapid Creek, the work will be performed "in the wet" as described below. The City has applied for a 404 Nationwide permit from the Corps of Engineers for maintenance activities. Work cannot begin until permit is in place.

To access the work, Contractor will need to construct a ramp into the water from the north bank of the stilling basin to within 20' of the seep (whatever distance that can be reached by excavator or crane). Sandbags will be placed on the spillway crest to divert surface flows to the south side. Contractor will need to install a silt curtain in the stilling pool to control sediment transport. The seep will then be covered with approximately 2' of type 2 foundation material and 2' of Class A riprap. The Engineer will direct placement of the materials.

The work should be done as soon as possible, prior to May 15, 2006.

The work done in accordance with the plan detailed in the construction specifications will adequately protect trout eggs in downstream gravels. The City will measure suspended solids in Rapid Creek downstream of the work during construction. Total suspended solids in the creek (TSS) shall not exceed an average of 30 ppm, with a maximum single reading not to exceed 53 ppm. Contractor shall deploy silt curtains, silt fences, or other methods to contain turbidity while the ramp and filter berm are placed.

Work shall be completed (including final clean-up) within 14 calendar days of Notice-to-Proceed.



INFORMAL QUOTATIONS

PROJECT DR04-1433 - CONSTRUCT FILTER BERM IN LIVE STREAM

ITEM NO.	ITEMS	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED PRICE
1	MOBILIZATION, PER LUMP SUM	LS	\$ 1,200.00	\$ 1,200.00
2	PLACE & REMOVE SANDBAGS PER LUMP SUM	LS	\$ 750.00	\$ 750.00
3	PLACE & REMOVE ENVIRONMENTAL CONTROLS PER LUMP SUM	LS	\$ 2,500.00	\$ 2,500.00
4	PLACE & REMOVE TEMPORARY ACCESS RAMP PER LUMP SUM	LS	\$ 4,000.00	\$ 4,000.00
5	TRAFFIC CONTROL PER LUMP SUM	LS	\$ 500.00	\$ 500.00
6	TYPE 2 FOUNDATION MATERIAL PER TON	14 TON	\$ 60.00	\$ 840.00
7	CLASS A RIPRAP PER TON	14 TON	\$ 65.00	\$ 910.00
8	RECLAIM & RESEED DISTURBED AREAS PER LUMP SUM	LS	\$ 2,000.00	\$ 2,000.00
9	INCIDENTAL WORK, PER LUMP SUM	LS	\$ 2,750.00	\$ 2,750.00

END ITEMS DR04-1433

TOTAL AMOUNT

\$ 15,450.00

1433-Informal Quote

PROJECT DR04-1433 - CONSTRUCT FILTER BERM IN LIVE STREAM

THIS QUOTATION WAS PREPARED BY:

Quinn Construction Inc

CONTRACTOR

4404 Universal DriveRapid City, SD 57702

ADDRESS

Robert Quinn, Pres

SIGNATURE AND TITLE

4-5-06

DATE

605-787-6510

PHONE NO.

QUOTATION ACCEPTED BY:

D. D. D.

PROJECT ENGINEER

4/5/06

DATE

DEPARTMENT HEAD

DATE

PURCHASING AGENT

DATE

MAYOR

DATE

FOR CITY USE ONLY:

FUND NO.

505

DEPT. NO.

891

LINE NO.

4371

COST ESTIMATE