APPLICATION FOR GRANT
2000 WATER PROJECT GRANT PROGRAM
COLORADO RIVER WATER CONSERVATION DISTRICT

Project Title: SHAEFFER PROPERTY 8" UNDERGROUND IRRIGATION WATER LINE

Project Sponsor: H B SHAEFFER
5957 Rd 319, RIFLE, CO 81650

Contact Individual: HB SHAEFFER **Phone Number:** 970-876-2819

Proposed Grant Amount: $1,500.00 **Match Amount(all sources):** $ 3,100.00
Total Project: $ 4,600.00

BASIN: Gunnison Colorado White Yampa

DISTRICT PURPOSE:

PROJECT SUMMARY:

Shaeffer Property-8" underground irrigation water line.

The attached **Project Purpose and Project description** sets forth the general reasoning behind this project and request. I believe this project meets the Colorado River Water Conservation District grant program criteria. This project will both improve and guarantee a reliable source of irrigation water to these 50 acres of cropland. The overall improvement in water use efficiency will be an immediate benefit from the use of underground delivery of the source water plus the efficiency gained by flood irrigation with gated pipe vs. old style open ditches. Since the gated pipe system will deliver a constant flow of water, both in-field erosion as well as excess tail water from the irrigation process will be better controlled. This in turn will assist in improving instream water quality of all water sources downstream from the tail waters from these irrigated fields.

For additional information I may be contacted at (970-876-2819 or hrshaef@rof.net.

HB Shaeffer 2/6/00

Use extra sheets if necessary

SHAEFFER PROPERTY
8" UNDERGROUND IRRIGATION WATER LINE

PROJECT SPONSER: H. B. SHAEFFER

PROJECT PURPOSE:

Due to the rapid and extensive commercial development taking place along Airport Road between the I-70 interchange at Rifle and the Garfield County Regional Airport, the City of Rifle applied for and received an Energy Impact Grant to **Improve a portion of Airport Road** along the southerly boundary of the **SHAEFFER PROPERTY.**

This road improvement will consist of construction and complete road improvement including the installation of three (3) 12-foot lanes on Airport Road from Taughenbaugh Road to as far east on Airport Road as funding will permit. The City of Rifle has contributed $80,000, Garfield County $40,000 and the Energy Impact Grant $300,000 for a total of $420,000.

The **SHAEFFER PROPERTY** owners have agreed to dedicate to the City of Rifle, **at no cost,** a strip of land located south of a line, which is thirty feet (30'), north of and parallel to the existing Airport Road centerline.

All head and lateral ditches used in the irrigation of the **SHAEFFER PROPERTY** croplands are located in this dedicated strip. This will be the third (3rd) time in the past few years that these ditches have been completely destroyed due to the on-going construction/expansion along this very important city/county corridor.

- *First time these ditches were destroyed was when the city installed its water line out* to the Co-Generation plant located just south of the Garfield County Regional Airport.
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- Second time was when the city laid its sewer line out to its Industrial Park site just east of the **SHAEFFER PROPERTY.**

- Now with this Airport Road improvement these ditches will again be destroyed.

I have decided the only way to maintain a stable and reliable irrigation system on this cropland is to discontinue relying on the "old" system of flood irrigation using head and lateral ditches. The replacement system is as follows:

- Replace all head and lateral ditches with 8" gated plastic irrigation pipe laid just inside my fence along the north edge of the newly constructed Airport Road.

- In order to build up sufficient pressure in the 8" gated irrigation pipe, it will be necessary to install an underground 8" plastic pipeline from my headgate on the Loesch and Crann Ditch down to the southeast corner boundary of **THE SHAFFER PROPERTY.**

- Once I have my water source underground, future construction, and building by adjacent landowners, road improvement projects, hook-ups to the city water, and *sewer lines etc. will cause minimum interruption to my irrigation system. If I were to* continue using the historical head and lateral ditch system each time someone would need to connect to the city water and or sewer system along **THE SHAEFFER PROPERTY line** it would disrupt my ability to irrigate my cropland.

SHAEFFER PROPERTY
8" UNDERGROUND IRRIGATION WATER LINE

PROJECT DESCRIPTION:

- Dig trench, lay and cover an eight inch (8") plastic pipeline from the headgate located on the Loesch Crann Ditch down to the southeast corner boundary.
- The footage of this line is 1000 feet north from L/C headgate down to and under the Airport Road, then west 300 feet along Airport Road to southeast corner of **SHAEFFER PROPERTY.** (see site map attached)
- Install riser, pressure valve and waste valve connection at the point the underground line enters the southeast corner of SHAEFFER **PROPERTY.**
- Install riser and waste valve connection at point, along the 8" gated irrigation pipeline, some 1250 feet west of southeast corner.
- Although this system requires several hundred feet of 8" gated irrigation pipe; I already have such pipe on hand and will not be asking for any cost share for this item.

PROJECT BUDGET:

• 1300 feet of 8" underground plastic pipe at $2.00/ Ft	$2,600.00
• Connections, valves, and fittings	$1,000.00
• Trenching, Covering, and pipe installation	$1,000.00
• **TOTAL**	**$4,600.00**

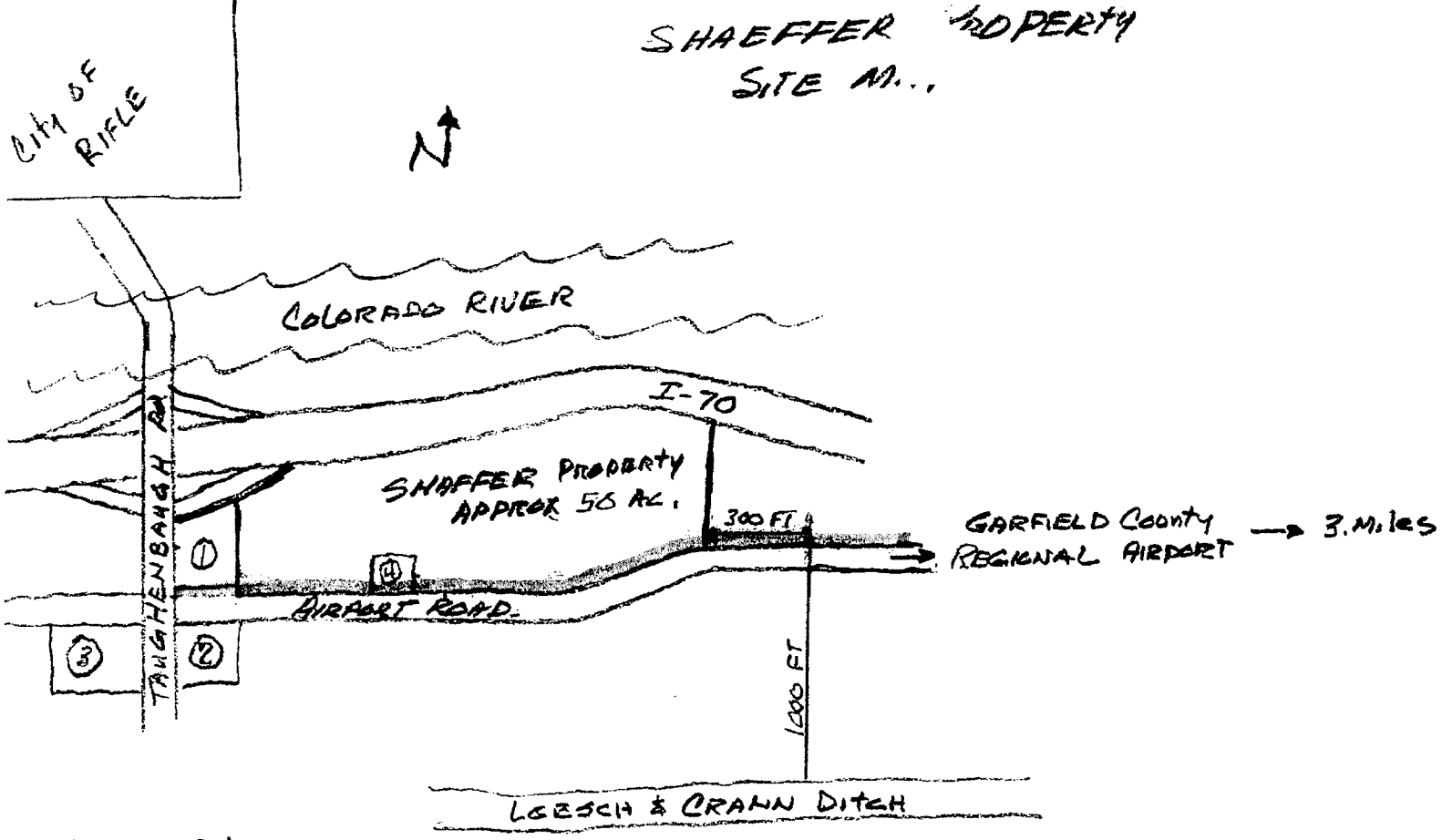
PROJECT SCHEDULE:

- Construction of this project will be completed no later than May 15, 2000. If weather permits, we will attempt to have it constructed by April 15, 2000. These dates are necessary in order to get my irrigation system in and operational for the 2000 irrigation season.

PROJECT SPONSOR:

• **Proposed Grant Amount 33.333%, Colorado River Water Conservation District**	**$1,500.00**
• **Project Sponsor Amount 66.667%, H. B. Shaeffer**	**$3,100.00**
• **Total Project**	**$4,600.00**

SHAEFFER PROPERTY
SITE M...



LEGEND:

1. ALPINE BANK SERVICE CENTER
2. Phillips 66 Station
3. Kum & Go Station
4. SHAEFFER FARMSTED
5. AIRPORT RD. IMPROVEMENT [redacted]
6. underground PIPE LINE
7. GATED IRRIGATION PIPELINE