

**Nebraska Department of Natural Resources**  
**Surface Water Irrigation Infrastructure Fund**  
**(SWIIF)**  
**Needs Assessment**

**Name of District or Canal:** XYZ Irrigation District

**Primary Contact:** John Doe

**Primary Contact Phone Number:** Point of contact phone number

**Primary Contact Email (if available):** Point of contract email, if available

**List the major infrastructure issues of concern and the likely impacts if not addressed:**

Head Gate: Major repair needed, if not addressed would be unable to divert water for the entire district

Check Gates: Difficult to operate, if not addressed some turnouts could be without water for days at a time

Return Structure: Significant erosion, if not addressed the structure could be lost and water supply of customers on the lower end could be diminished

**How many water users are likely to benefit from addressing the infrastructure issues identified above:**

Head Gate: All customers (15 producers and about 5,000 acres)

Check Gates: Customers between mile 2 and the return could be impacted and ditch rider time could be reallocated.

Return Structure: the lower end customers (3 producers and about 1,000 acres)

**Has any engineering or design work been conducted to assess the issues identified above? If yes, please briefly describe the work that has been completed (if engineering reports, pictures, etc. are available please include them with the application).**

No engineering yet. We did have an engineer provide an estimate a couple of years ago (see attached). We will need an engineer to design the repairs for the return structure and have contacted them to provide an estimate. The check gates will be repaired by irrigation district employees and costs have been estimated based on conversations with another district in our area.

## **EXAMPLE**

### **What are the estimated costs to address the issues identified above?**

Head Gate: \$1,500,000

Check Gates: 10 gates at \$20,000 per gate, total \$200,000

Return Structure: No estimate yet, expect engineer estimate by the end of July we think it will be around \$300,000

### **Describe potential matching contributions and the project budget estimate (in-kind vs cash contributions).**

The district would be able to provide \$150,000 in cash and an estimated \$15,000 in-kind for the gate replacements for a total of \$165,000 in matching funds.

### **Are there any expected permitting requirements (e.g. 404 permit) to address the issues identified above? If yes, please list expected permits that will be required.**

There is likely going to be a need to discuss permitting for the headgate portion of the project, but no other permits are expected to be needed.

### **Please summarize the schedule for construction. If the project is expected to need funding over multiple years, please indicate the estimated number of years.**

The District would not be able to start work until at least the fall of 2023 following the irrigation season. The headgate would be completed first and then the check gates in the spring of 2024 with the return fixed in the fall of 2024 after that irrigation season.

### **Have you identified other potential partners and/or funding sources that may support the project (i.e. United States Bureau of Reclamation (USBR) WaterSMART, Nebraska Environmental Trust (NET), NRD partner, etc.)?**

We have talked about applying for a WaterSMART application, but were not sure who to contact or how to start that process