IRRIGATION SYSTEM – TAILWATER RECOVERY
DATA SHEET

SWCD: _____ Field Office: _____

Cooperator: _____ Location: _____

Plan or Group No.: _____ Eng. Job Class _____ Program No.: _____

Program _____ Contract No. _____ CIN _____ Field No. _____

Design applies to _____ acres in Field No.(s) _____

Designed by _____ Date _____

Design Approved by _____ Date _____

Computations Checked by _____ Date _____

(See sketch of system on page 2)

Type of surface irrigation system _____

Initial irrigation water supply (Q_I) _____ gpm. Time of irr. Set (T) _____ min.

Estimated irrigation water runoff _____ %. Estimated tailwater recovery _____ %

Minimum pumpback required computations:

$$Q_R = (Q_I)\ \frac{(_____\ \%\ \text{Runoff})}{(100)}\ \frac{(_____\ \%\ \text{Recovery})}{(100)} = _____\ \text{gpm}$$

(See irrigation pipeline data sheet for pipeline design)

Minimum storage required computations:

$$V = \frac{(Q_I + Q_R)}{(7.481)}\ \frac{(T)}{(27)}\ \frac{(\%\ \text{Runoff})}{(100)} = _____\ \text{cubic yards}$$

(See pond data sheet for storage pit, inlet, sediment pit, and rainfall runoff exclusion)

COLLECTION DITCHES:

Bottom (ft) _____ Depth (ft) _____ Side Slopes _____ Grade (%) _____

Velocity (fps) _____ Area (sp ft) _____ Capacity (cfs) _____

(See attached data sheets for final check notes)

This practice meets specifications: _____
(Signed) (Date)

MAP OF DESIGN AREA - SCALE 1" = _____ Ft.
Sketch map on grid or attach photo or overlay

Sketch map should show:

A: Source of water
B: Major elevation differences
C: Row direction and spacing
D: System layout
E: Plan of operation
F: Filed obstructions (gullies, trees, buildings, etc.)
G: North arrow