

IRRIGATION LAND LEVELING

Design Survey

The following information shall be obtained and recorded in the field notes:

- a. Rod reading at each grid point.
- b. Water source and elevation.
- c. Soils limitations.

Design Data

The following shall be considered minimum in the design of all irrigation land leveling. The information shall be recorded on the design sheet or computer print out.

- a. Soils limitations.
- b. Direction of irrigation.
- c. Method of irrigation.
- d. Planned grades.
- e. Shrinkage factor.
- f. Volume of cut and fill.
- g. Area to be leveled.

Drawings and Specifications

Construction drawings are not required if a computer printout is available, unless requested by the contractor. If a computer printout is not available, the drawings shall include, but will not be limited to the following:

- a. Plan view of area showing cuts and fills.
- b. Boundary of area to be leveled.
- c. Location and elevation of water source.
- d. Physical features of area to be leveled (i.e., fences, trees, and buildings) which may affect construction.
- e. Irrigation plan. (Can use form WY-ENG-39 or computer printout.)
- f. Location map.

Practice specifications and, if needed, applicable "Items of Work and Construction Details" shall be provided for each item and phase of construction.

Layout Survey Notes

Layout survey notes, as such, are not required for irrigation land leveling providing the grid stakes still remain. The designed cut or fill shall be transferred to the grid stakes.

Compliance Checks

All compliance checks shall be recorded in the field notes. Narratives of construction checks shall be recorded on a sheet in the field notes. Compliance checks shall include the following:

- a. Elevations or rod readings along 20 percent of the grid lines.
- b. Area leveled.
- c. Statement of compliance.

As-Built Plans

The As-Built plans shall reflect any changes in irrigation slopes from that designed and any changes in extent of work. If there were no changes, the original construction drawings or computer printout shall be marked "As-Built".