

Name _____ Ident. No. _____
Legal Desc. _____ County _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____

System Requirements and Information

Water right _____ gallons per minute (gpm) Irrigated area _____ acres
Pump design flow rate (based on pump test) ^{1/} _____ gpm
Minimum wetted diameter of outside sprinkler required _____ feet
System length _____ feet System capacity _____ gpm (without end gun or cornering system)
Ground elevations: Maximum _____ Minimum _____ At the pivot _____
Location of maximum ground elevation (if not at end of pivot) _____
Sprinkler placement: on the pipe below truss rod and above canopy
 in canopy above 30 inches 12 to 30 inches above ground
Typical sprinkler height above ground _____ feet Height of the pivot _____ feet

Mark attached items:

- Plan map of system
- Form KS-ENG-22, Center Pivot Sprinkler Design (spreadsheet)
- Form KS-ENG-394, Irrigation Water Management Crop and Water Requirement (spreadsheet)

Remarks:

^{1/} If there hasn't been a pump test run during the irrigation season within the most recent 3-year period, the design flow rate will not be greater than 80 percent of the original pump flow rate.

Supplier/dealer shall submit a computer printout showing the following items at least 14 days prior to installation: (Mark items found on the computer printout.)

- | | |
|---|---|
| <input type="checkbox"/> Sprinkler locations | <input type="checkbox"/> Sprinkler flow rates |
| <input type="checkbox"/> Pipe pressures | <input type="checkbox"/> Sprinkler pressure |
| <input type="checkbox"/> Nozzle sizes, drop heights | <input type="checkbox"/> Size and pressure rating of regulators |
| <input type="checkbox"/> Friction loss C factors | <input type="checkbox"/> Lateral outside diameters |
| <input type="checkbox"/> Timer settings | |
| <input type="checkbox"/> Field elevation drop and gain in feet to ensure all design requirements are met prior to installation. | |
| <input type="checkbox"/> Documentation of the Coefficient of Uniformity (CU) provided. | |

Is the sprinkler design printout attached? Yes No

Does the sprinkler design meet required design criteria? Yes No

Failure to provide the computer printout prior to installation may jeopardize any pending cost-share assistance.

| Item | Designed | As Installed |
|---|----------|--------------|
| Coefficient of Uniformity (CU) | percent | |
| Sprinkler type and manufacturer | | |
| Number of sprinklers | | |
| Number of pressure regulators | | |
| Pressure regulator rating (psi) | | |
| Sprinkler height above ground (feet) | | |
| Wetted diameter of outer nozzle (feet) | | |
| Center pivot manufacturer | | |
| Number of towers | | |
| Length of system lateral (feet) | | |
| Outside diameters (O.D.) of system lateral (inches) | | |

Does the checkout of the system installation agree with the design? Yes No

If not, explain why:

Checkout by _____

Date _____

Audited by _____

Date _____