Instructions for Flowmeter Data Sheet--NE-ENG-83

1. Fill in NRD, Field Office, Cooperator's name, location and complete the location map with legal description and sketch location on map.
2. If water source is a well complete well registration (this is one way to track meters if several are installed on the same cooperator. Mark type of water source. If surface water, a cleanout may be recommended to remove trash and debris that may collect on the meter. Mark if cleanout is recommended and the appropriate location, either upstream or downstream of meter. Note the cleanout location depends on meter type and meter configuration.
3. List the unobstructed straight pipe upstream and downstream of the proposed meter location. If adequate straight distance is unavailable as recommended by the manufacturer (or if data unavailable as listed in the specification or on the data sheet) straightening vanes may be required. Mark if straightening vanes are required and show location of straightening vanes on plan view. If distance is still inadequate with straightening vanes included, change meter location or change pipeline configuration.
4. Mark if full pipe flow will be guaranteed (yes or no). For example is the pipe is delivering to a center pivot under pressure full pipe flow is guaranteed. For gravity flow or pumped flow into gated pipe the gated pipe grade may be steep enough that water will flow open channel away from the outlet. In this case full pipe flow would not be guaranteed and a "hump" would be needed to create full pipe flow for measurement. Mark if the "hump" is needed or not.
5. Complete meter brand, model, diameter, serial number (after installation), and type of meter. Documentation of the serial number will help track meter information if the cooperator has numerous flow meters.
6. Sketch plan view of the meter installation layout. Document (minimum acceptable) distances to upstream and downstream obstructions. Document location of cleanout if used. Document other pertinent information as needed to describe the installation or site.
7. Sketch profile (optional) of meter installation layout as needed. This may be required to insure full pipe flow measurement at the meter. For example, a sketch may be required to show elevation of bottom of the middle section of the "hump" is higher than the top of the pipe at the meter location.

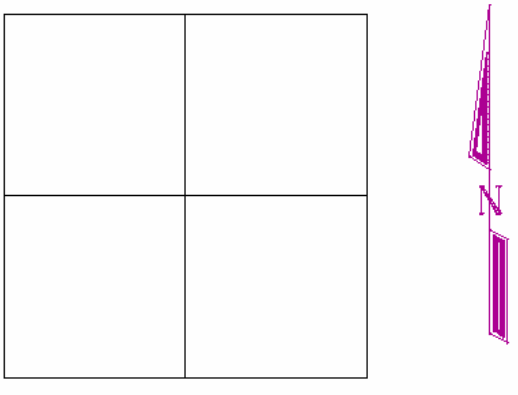
Clear EXAMPLE Print Save File

U.S. Department of Agriculture
Natural Resources Conservation Service

NE-ENG-83
(10/04)

DATA SHEET FOR FLOWMETER

NRD UNWRD **Field Office** Alliance
Cooperator John Doe
Location 3 miles west and 3.5 miles north of Hemingford
Well Registration No. 921292
Water Source: Groundwater X **Surface Water** ____
Unobstructed Straight Pipe Distance Upstream of Meter 12 **Diameters**
Unobstructed Straight Pipe Distance Downstream of Meter 6 **Diameters**
Full Pipe Flow Guaranteed: Yes X **No** ____
Downstream "hump" needed: Yes ____ **No** X
Meter Pit Needed: Yes ____ **No** X
Straightening Vanes Needed: Yes ____ **No** X
Cleanout Required: Yes ____ **No** X **, Located Upstream** ____ **Downstream** ____ **of meter.**



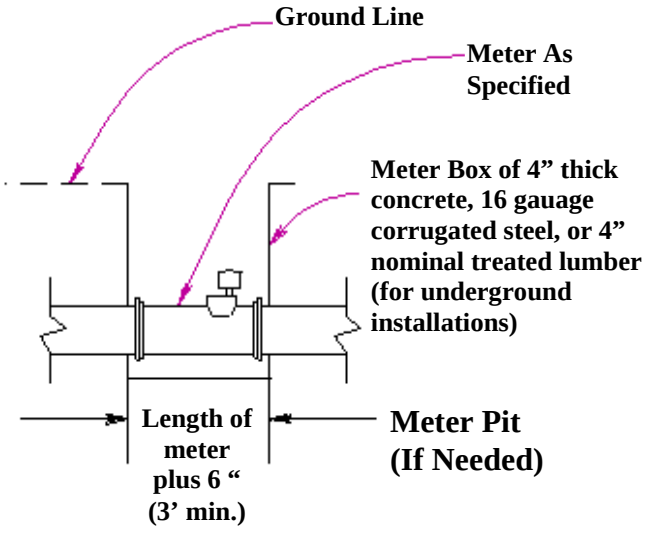
Location Map: SE 1/4 **Sec.** 26 **T** 28N **R** 50W

Meter Brand (or equal) Fluidyne **Model** HF-2200 **Diameter** 8" **Serial No.** H010413.019
Meter Type Propeller ____ **Vortex** X **Other** ____ **(Specify)**

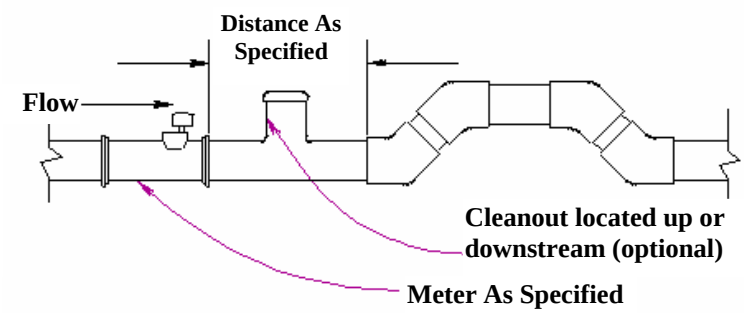
Meter Location Requirements:

Requirements for straight pipe distance up and downstream of meter, and the use of straightening vanes vary by meter type, manufacturer, and the type of upstream and downstream obstructions. These requirements MUST BE OBTAINED AND APPROVED BY THE NRCS TECHNICIAN before installation. If this data is NOT AVAILABLE, the required distance of straight unobstructed pipe shall be in accordance with Nebraska Construction Specification 209, Irrigation Flow Meter.

(Attach Construction Specification NE-209 Irrigation Flowmeter)
(Sketch plan view and profile view (optional) on reverse side of form.)



Meter Pit (If Needed)



Downstream "hump" (If Needed)

Optional Meter Installation Details

Designed by CES **Date** 9/5/01 **Checked by** RW **Date** 9/7/01
Approved by CES **Date** 9/7/01
Installation Certified by ____ **Date** ____

PLAN VIEW
SCALE: 1" = ___10___ FEET

PROFILE VIEW (optional)
SCALE: 1" = _____ FEET