

Instructions

Dry Hydrant Design

NE-ENG-76

Instructions for use of NE-ENG-76

Using the information on the back of NE-ENG-76, profile the proposed location of the hydrant (most of the time this could be done with a hand level). Determine normal water elevation as part of the survey. Plot this information separately on cross-section paper if necessary.

- A. Determine total minimum depth of intake (4).
- B. Determine static head (SHL), (100.0 minus (5)).
- C. Record design capacity of pumping equipment.
- D. Record intake strainer and standpipe losses (ISL).
- E. Using the profile survey, determine pipe and fittings needed and record it.
- F. Determine equivalent pipe length. Determine pipe friction loss (PHL).
- G. Determine total hydraulic head of the system.
- H. From the information gathered, fill out the front of NE-ENG-75.

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."