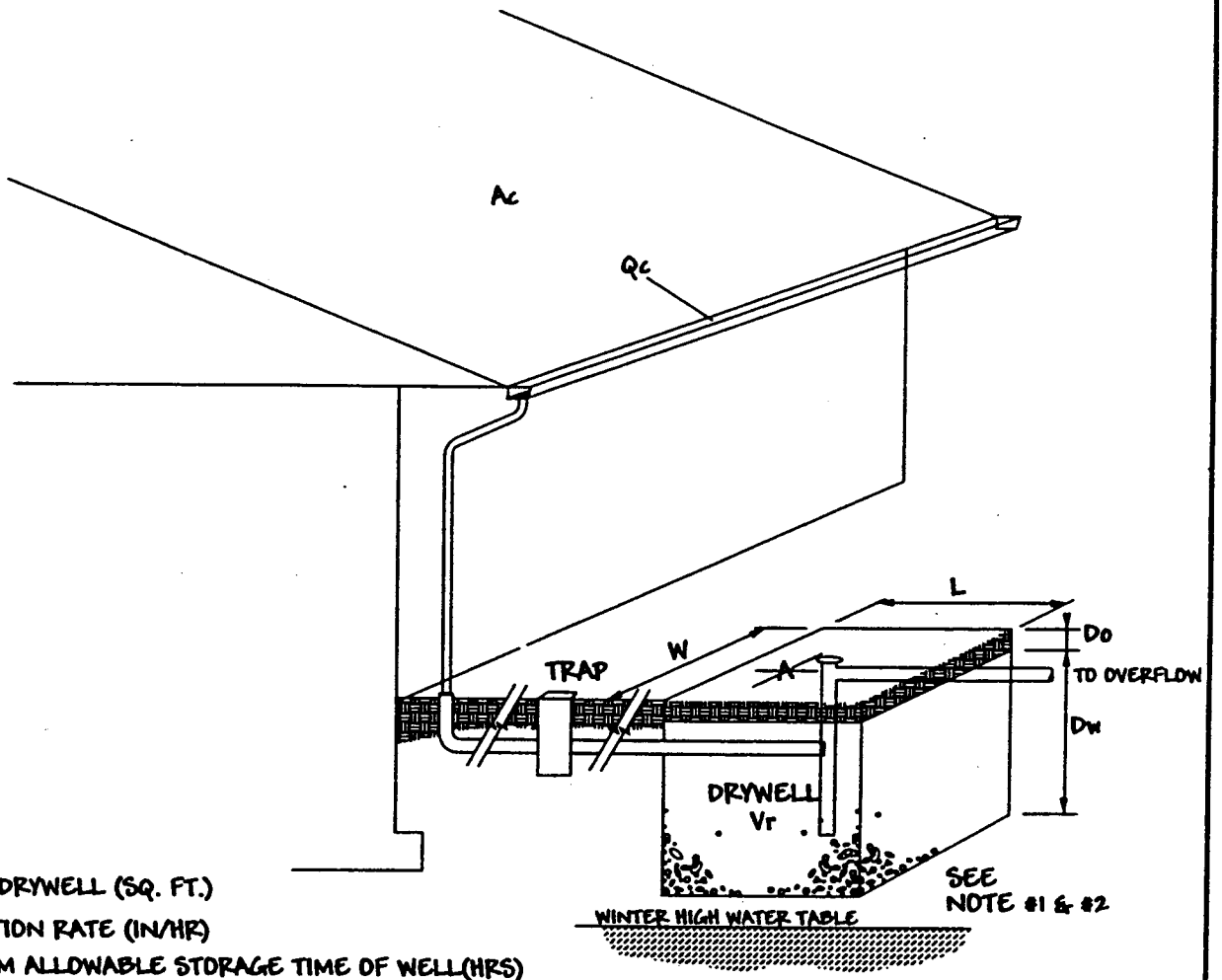

A = AREA OF DRYWELL (SQ. FT.)

f = INFILTRATION RATE (IN/HR)

Ts = MAXIMUM ALLOWABLE STORAGE TIME OF WELL (HRS)

Vr = VOID RATIO WELL MEDIUM (0.3) MAX.

Ac = AREA OF RUNOFF TO DRYWELL (SQ. FT)

Qc = RUNOFF AMOUNT PER DAY (IN.) (0.25) MINIMUM

Dw = DEPTH OF WELL (FT.) (3' MIN.)

Do = DEPTH OF SOIL COVERING DRYWELL (FT)

NOTE #1

Dw + Do MUST NOT EXCEED DEPTH TO THE WINTER HIGH WATER TABLE.

NOTE #2

SEE INDIVIDUAL LOT/ROOF DRAIN DRYWELL SCHEMATIC STD. DWG. 4-20

TO FIND AREA:

$$\frac{Ac \times \frac{Qc}{12}}{Vr \times Dw} = A \text{ IN S.F.}$$

TO VERIFY DRAW DOWN TIME (MUST BE < 24 HOURS)

$$\frac{Ac \times \frac{Qc}{12}}{(2L + 2w)Dw}\left(\frac{12"}{f}\right) = Ts \text{ (HOURS)}$$

NO.	DATE	BY	APPR.

CITY OF SPRINGFIELD
DEPT. OF PUBLIC WORKS

225 FIFTH STREET
SPRINGFIELD, OR. 97477

DRYWELL SIZE COMPUTATION

STANDARD DRAWING
4-19