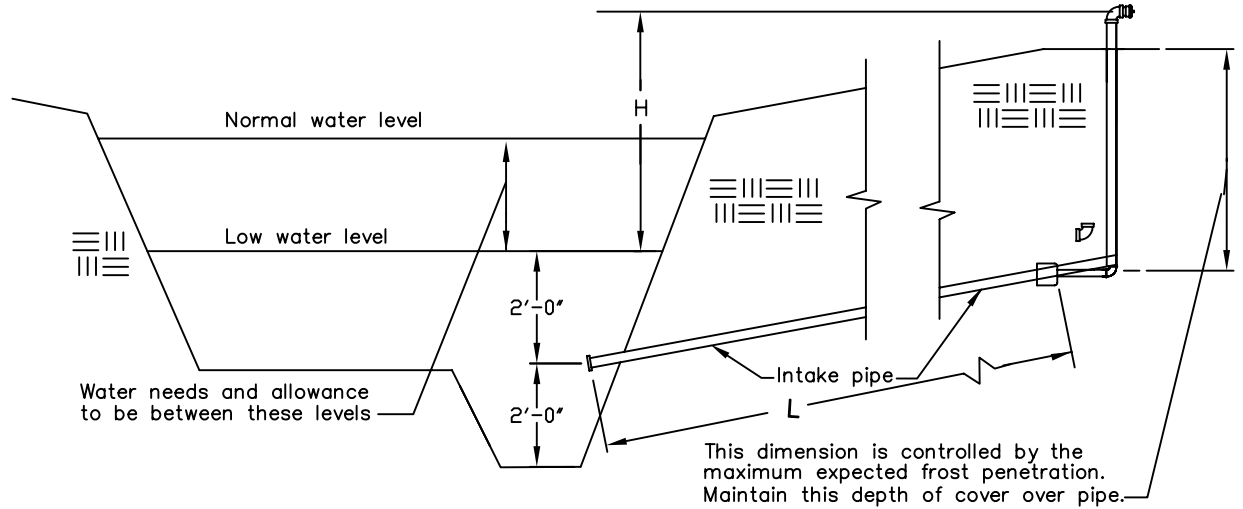
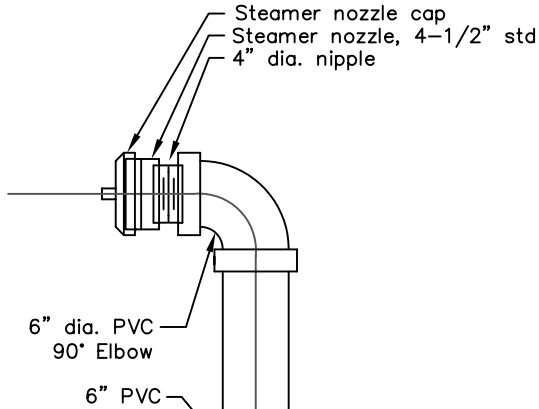


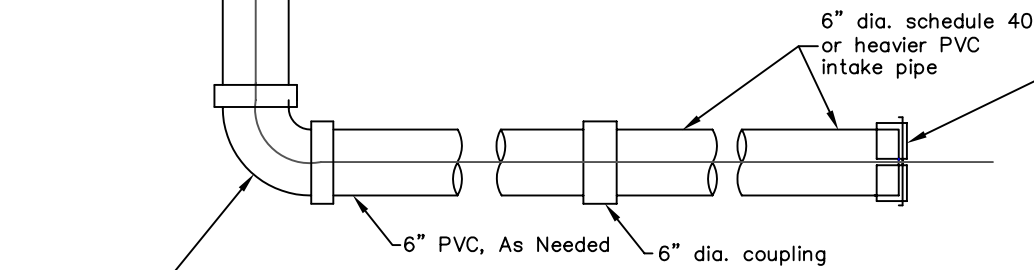
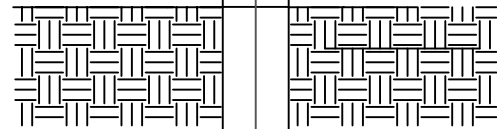
ALTERNATE INTAKE CONFIGURATION

10 mm holes @ 12.5 mm O.C.
Must provide opening area
greater than 4 times pipe end area.

Note:
If pump elevation is higher than steamer nozzle,
measure H from pump elevation.



SECTION THROUGH INSTALLATION



CROSS SECTION OF HYDRANT INSTALLATION

CALCULATING REQUIRED LIFT

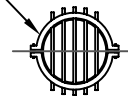
$$\text{TOTAL REQUIRED LIFT} = \text{HEAD LOSS IN HYDRANT FITTINGS AND GUARD} + \text{HEAD LOSS IN INTAKE PIPE (n=0.012)} + \text{STATIC LIFT (H)}$$

USING 500 GALLONS/MIN.

$$\text{TOTAL REQUIRED LIFT} = 6.9' + \frac{L \times 3.3'}{100} + H = 6.9' + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

NOTE: TOTAL REQUIRED LIFT VALUE NOT TO EXCEED 20 FT.

Trash guard, galvanized collar with 2 bolts and 5 rods, 1/8" dia. or as otherwise approved by NRCS technician.



END VIEW

DRY HYDRANT DETAILS

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE			
Designed _____	Date _____	Approved By _____	Title _____
Drawn _____	_____	_____	Title _____
Traced _____	_____	SHEET No. _____	Drawing No. _____
Checked _____	_____	OF _____	Hydrant.DWG

MICHIGAN ENGINEERING STANDARD DRAWING	
APPROVED BY _____	DATE _____
DRAWING NO. _____	SHEET OF _____