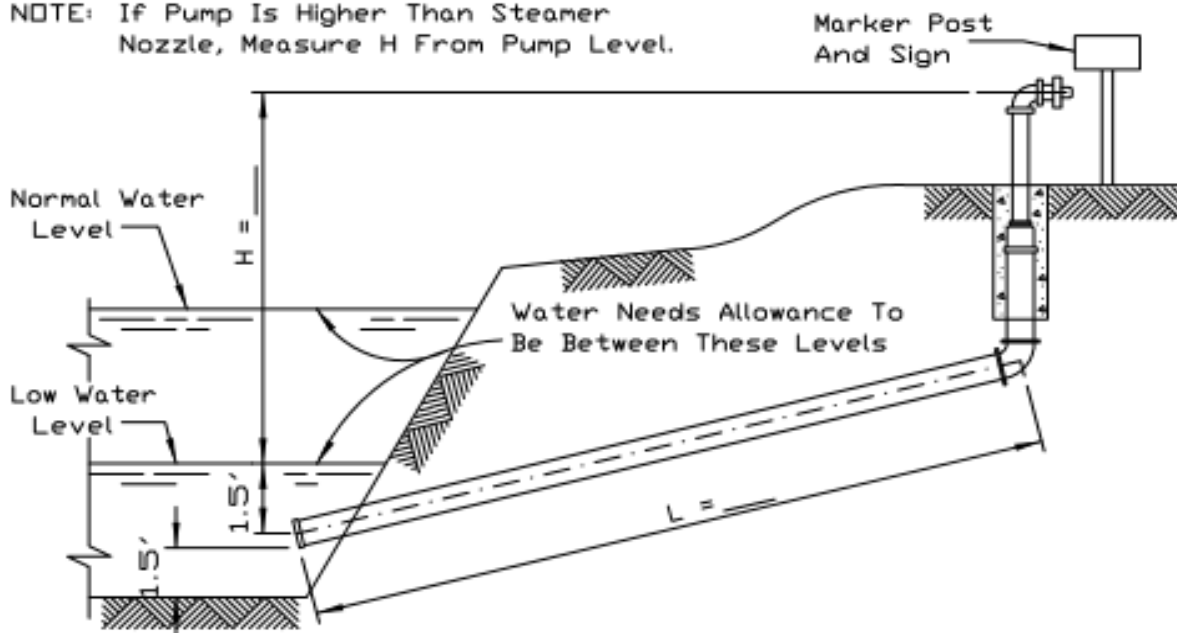


## DRY FIRE HYDRANT - DETAILS

NOTE: If Pump Is Higher Than Steamer Nozzle, Measure H From Pump Level.



PROFILE OF INSTALLATION

### CALCULATING REQUIRED LIFT

TOTAL REQUIRED LIFT =  
 HEAD LOSS IN HYDRANT, + HEAD LOSS IN INTAKE + STATIC LIFT (H)  
 FITTINGS AND GUARD PIPE (HL)

USING 500 GALLONS/MIN.

$$\text{TOTAL REQUIRED LIFT} = 7.6' + \frac{L \times \text{HL}}{100} + H = 7.6' + \text{---} + \text{---} = \text{---}$$

USING 250 GALLONS/MIN.

$$\text{TOTAL REQUIRED LIFT} = 1.9' + \frac{L \times \text{HL}}{100} + H = 1.9' + \text{---} + \text{---} = \text{---}$$

ILLINOIS	
Altitude (Feet)	Allowable Lift (Feet)
300	22.7
1,000	22.0
1,300	21.8

HEAD LOSS IN FEET (HL)		
Gallons Per Minute	Plastic Pipe	Smooth Steel Pipe
500	2.3	5.3
250	0.6	1.3

NOTE: Total required lift value not to exceed value obtained from table of allowable lifts (above).

REFERENCE  
 Project \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_

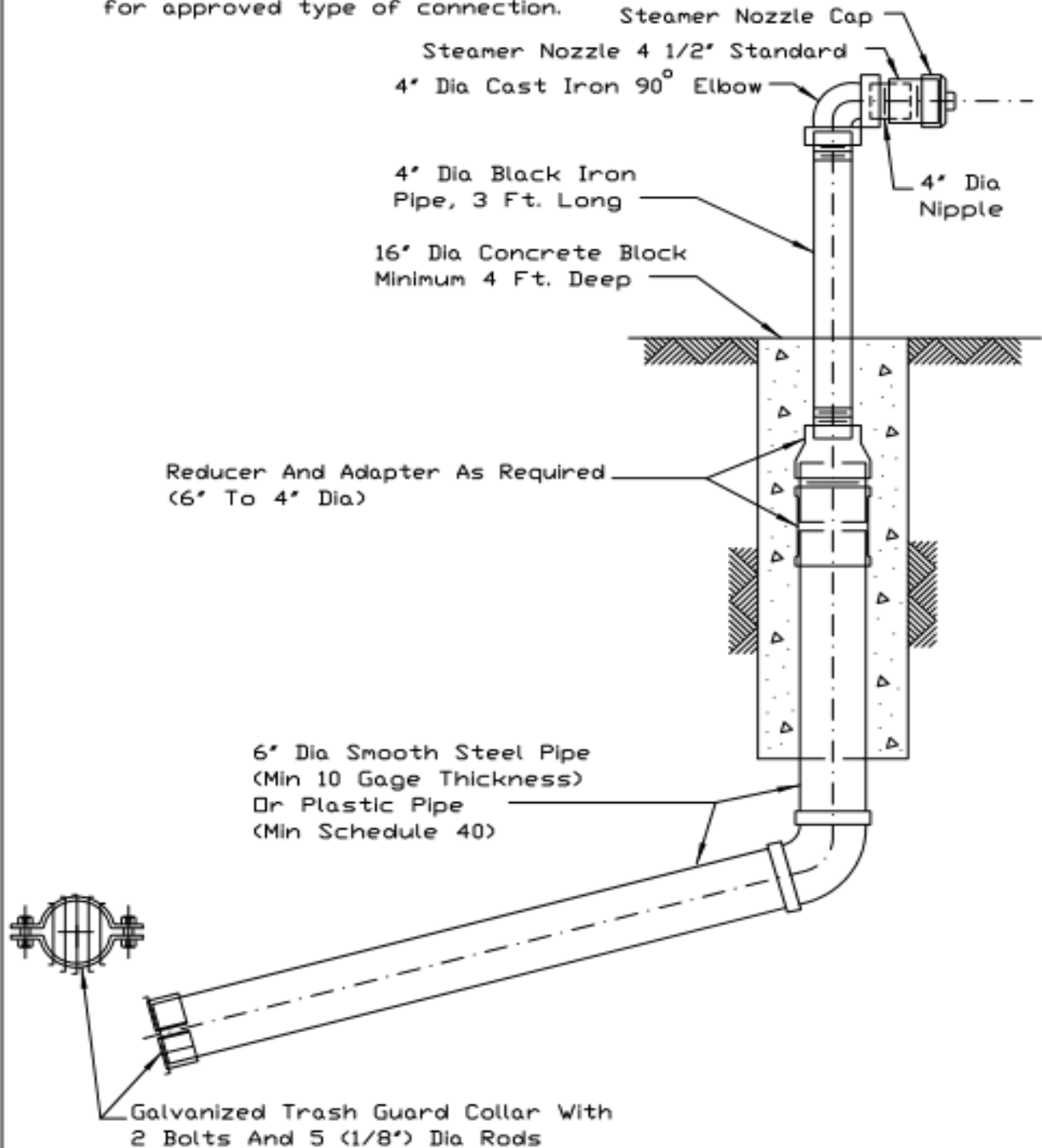


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 IL-120  
 SHEET 1 OF 2  
 DATE 9-29-94

# 

NOTE: Check with local Fire Department  
for approved type of connection.



DETAIL OF HYDRANT

REFERENCE  
Project \_\_\_\_\_  
Designed \_\_\_\_\_ Date \_\_\_\_\_  
Checked \_\_\_\_\_ Date \_\_\_\_\_  
Approved \_\_\_\_\_ Date \_\_\_\_\_



**NRCS**

Natural Resources Conservation Service

STANDARD DWG. NO.

IL-120

SHEET 2 OF 2

DATE 9-29-94