

Pipe to storage pond -  
Buried \_\_\_\_\_" dia. sch. 40 PVC

Concrete well :  
\_\_\_\_\_ " dia. precast concrete manhole,  
height = \_\_\_\_\_'

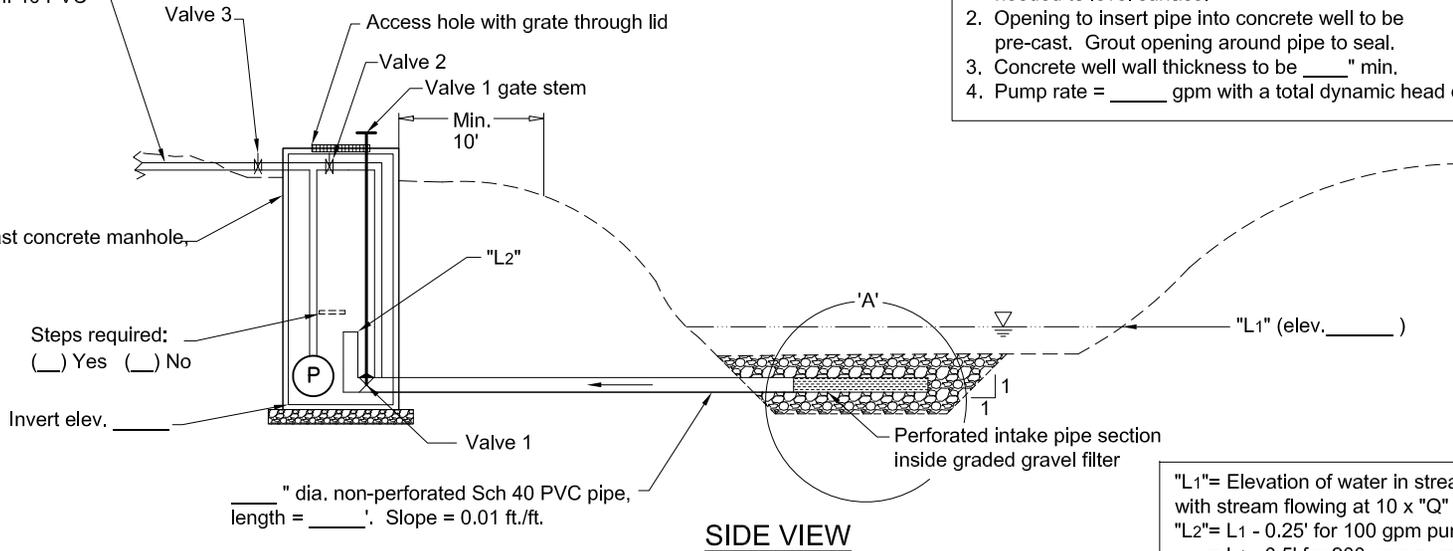
Steps required:  
 Yes  No

Invert elev. \_\_\_\_\_

\_\_\_\_\_ " dia. non-perforated Sch 40 PVC pipe,  
length = \_\_\_\_\_'. Slope = 0.01 ft./ft.

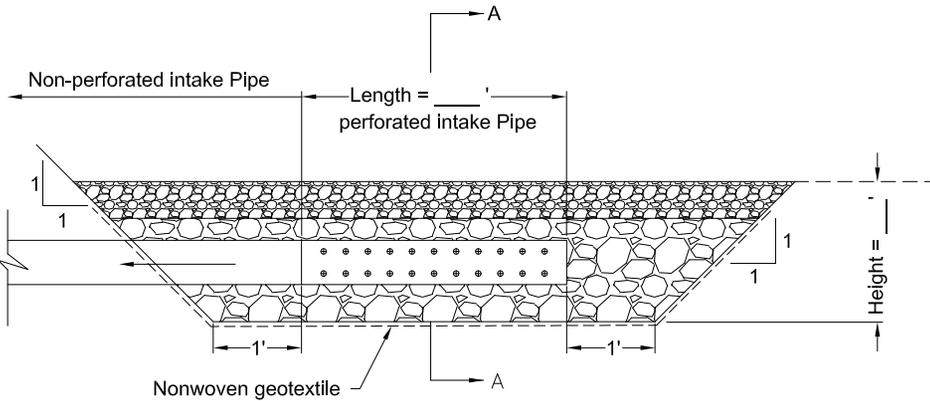
**Notes:**

1. Use #8 or #89 stone under base of concrete well as needed to level surface.
2. Opening to insert pipe into concrete well to be pre-cast. Grout opening around pipe to seal.
3. Concrete well wall thickness to be \_\_\_\_\_" min.
4. Pump rate = \_\_\_\_\_ gpm with a total dynamic head of \_\_\_\_\_ ft.



**SIDE VIEW**

"L1" = Elevation of water in stream  
with stream flowing at  $10 \times "Q"$   
"L2" =  $L1 - 0.25'$  for 100 gpm pump flow  
=  $L1 - 0.5'$  for 200 gpm pump flow  
=  $L1 - 0.75'$  for 300 gpm pump flow  
"Q" = Planned pumping rate

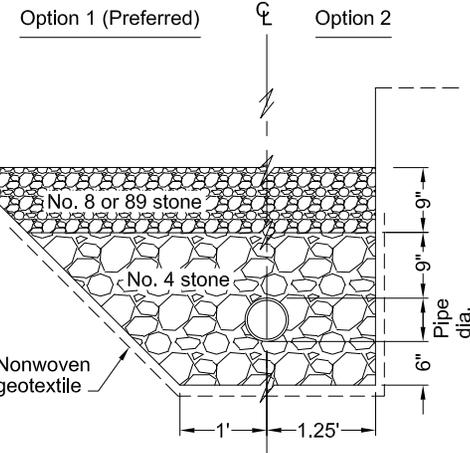


**Detail 'A'**

**Quantities Summary for Graded Filter**

No. 8 or 89 stone: \_\_\_\_\_ tons  
No. 4 stone: \_\_\_\_\_ tons  
Nonwoven geotextile: \_\_\_\_\_ yd<sup>2</sup>

Note: Details this sheet are not to scale



**Section A-A**

Note: Use this intake method only in streams with no sand and silt-size bedload.

**Intake Pipe Notes:**

- Pipe diameter = \_\_\_\_\_" dia. perforated Sch. 40 PVC w/ end caps.
- Perforated pipe length = \_\_\_\_\_'
- Pipe shall have \_\_\_\_\_ rows of  $\frac{3}{4}$ " dia. holes. Holes shall be spaced at 3" c.c. along row. Rows shall be spaced at \_\_\_\_\_° around pipe.
- Geotextile shall have a minimum tensile strength (ASTM D4632) of 120 lb. and a minimum puncture strength (ASTM D4833) of 60 lb.

File Name	Date
Drawing Name	Designed
AL-ENG-533-03	Drawn
	Checked
	Approved
Sheet	of

IRRIGATION WATER STREAM INTAKE

Landowner \_\_\_\_\_ County, AL

