

CENTERLINE PROFILE

Spillway Bottom Width \_\_\_\_\_ Ft.

- "A" - Vent pipe at 0.1 ft. below elev. "B".
- "B" - Set "B" at normal pool elevation.
- "C" - Should be at least 0.5 ft. lower than "B".
- "D" - Elevation must be at least 0.1 ft. above "F".
- "E" - Pipe with holes for trash guard.

Siphon pipe diameter \_\_\_\_\_ inches  
 Vent pipe diameter \_\_\_\_\_ inches

$L = L_1 + L_2 + L_3 + L_4 + L_5 =$  \_\_\_\_\_ Ft. (Design length).

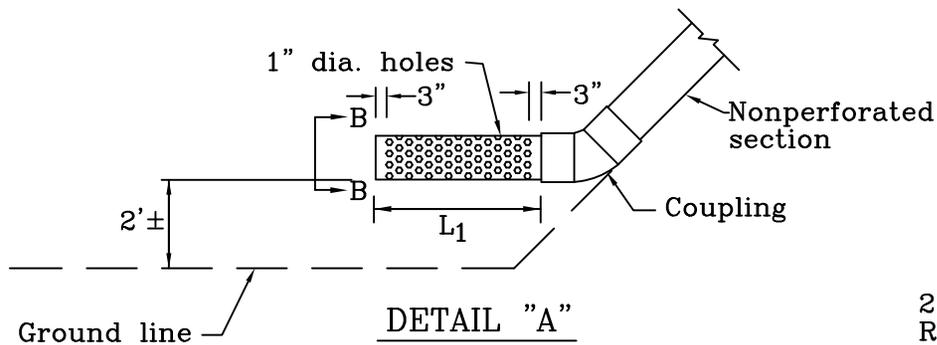
Design siphon pipe capacity \_\_\_\_\_ cfs, for H = \_\_\_\_\_ ft.

Design emergency spillway capacity \_\_\_\_\_ cfs.

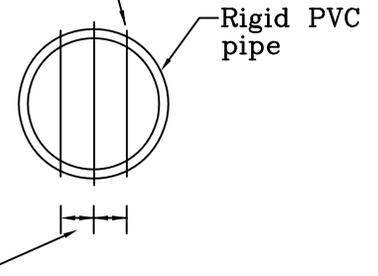
(Survey Notes, Computations, and Design Data Attached)

Field Office \_\_\_\_\_  
 Cooperator \_\_\_\_\_  
 Field No. \_\_\_\_\_  
 Location \_\_\_\_\_

<b>SIPHON PIPE SPILLWAY DESIGN          FOR SIPHON BURIED IN DOWNSTREAM SLOPE          _____ COUNTY, ALABAMA</b>	
<b>U.S. DEPARTMENT OF AGRICULTURE          NATURAL RESOURCES CONSERVATION SERVICE</b>	
Designed: _____ Drawn: _____ Traced: _____ Checked: _____	Date _____ Approved by _____ Title _____ Rev. 5/13 Sheet 1 Drawing No. _____ No 1 of 3 <b>AL-ENG-378-04</b>

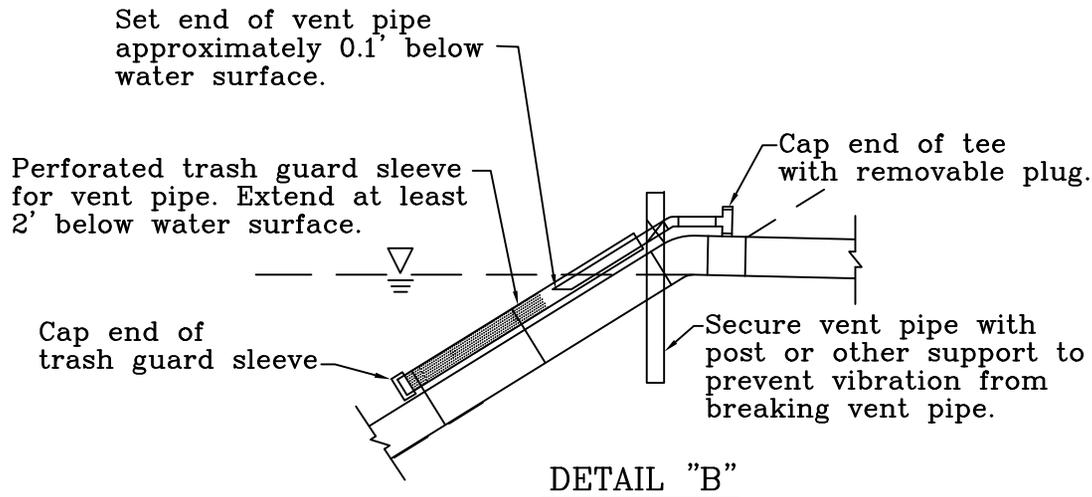


3/16" or 1/4" rods bent on ends or with nuts and washers for securing in pipe. Rods, nuts and washers shall be brass or stainless steel.



2" max. spacing between rods. Rods shall be evenly spaced. No. of rods varies with pipe dia. Drill holes about 1" from end of PVC pipe only large enough for the rods used.

SECTION B-B  
(Trash Guard)



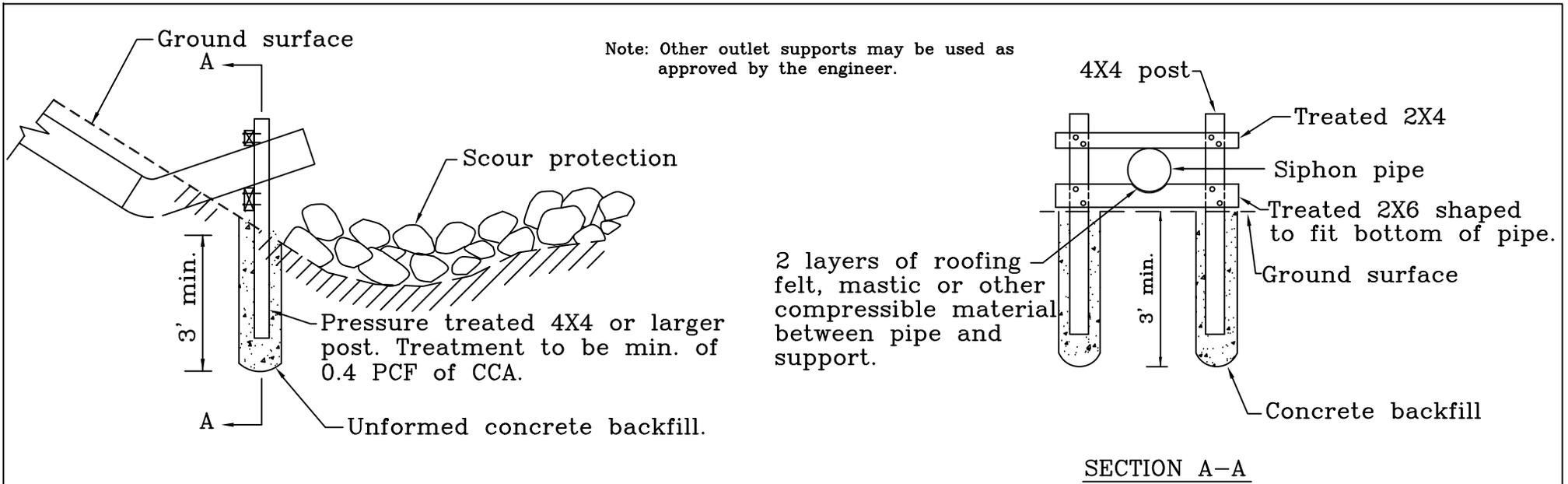
Number of holes and length for siphon inlet.

PIPE DIA.	HOLES	LENGTH (ft.)
4"	33	1.5
6"	73	2.0
8"	128	2.5
10"	201	3.0
12"	289	3.5
14"	363	4.0
16"	480	4.5

NOTE: Table is based on 1" diameter holes spaced at 2" on center and will provide a total opening at least 2 times the pipe cross sectional area.

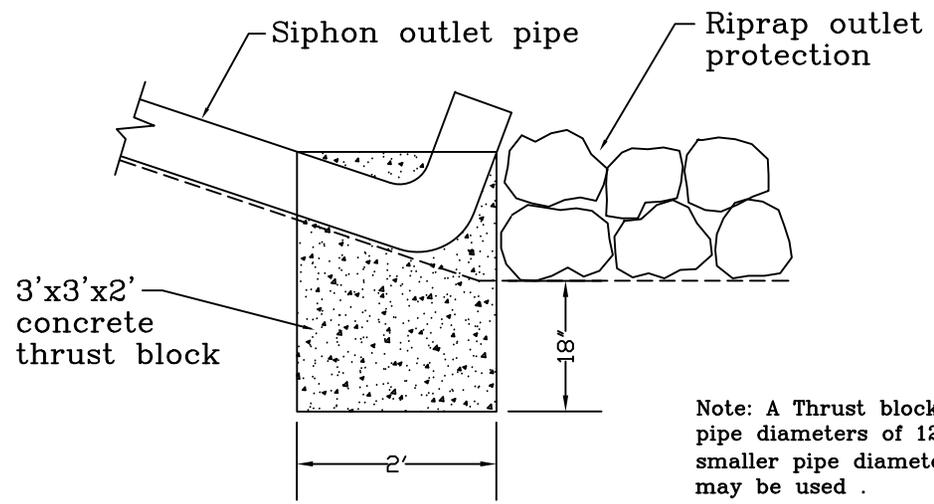
Note: Details this sheet are not to scale.

DETAILS SIPHON PIPE SPILLWAY DESIGN	
COUNTY, ALABAMA	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	
Designed _____	Date _____
Drawn DESIGN SEC. 11/97	Approved by _____
Traced _____	Title _____
Checked _____	Rev. 5/13
	Sheet Drawing No.
	No 2 AL-ENG-378-04
	of 3



TIMBER BENT DETAIL FOR SIPHON OUTLET

Use for above ground pipes of 4" through 10" diameters



SECTION THROUGH THRUST BLOCK  
AT OUTLET END OF PVC PIPE

<b>CONSTRUCTION DETAILS</b>	
<b>SIPHON PIPE SPILLWAY</b>	
COUNTY, ALABAMA	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	
Designed _____	Date _____
Drawn <b>DESIGN SEC.</b>	11/97
Traced _____	Approved by _____
Checked _____	Title _____
	Rev. 5/13
	Sheet Drawing No.
	No 3 of 3
	AL-ENG-378-04

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