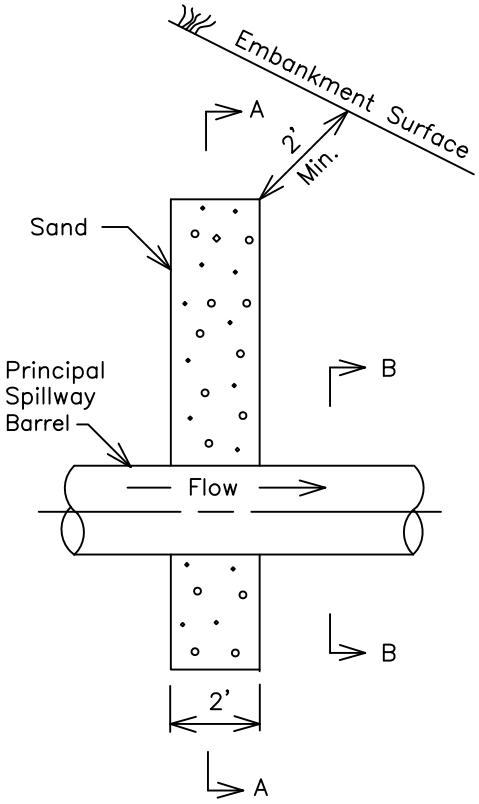
PRINCIPAL SPILLWAY FILTER DIAPHRAGM DETAILS

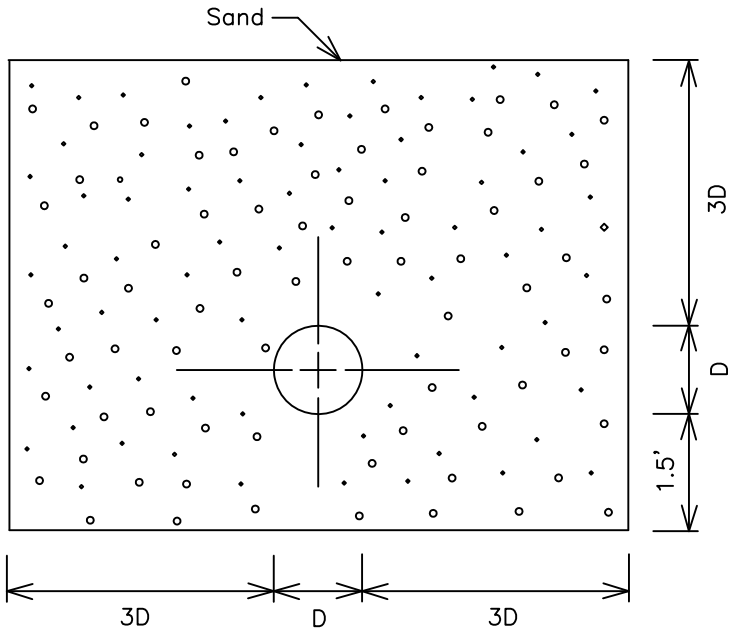
QUANTITIES		
PIPE DIA. IN.	DIAPHRAGM C.Y.	SAND OUTLET C.Y./FT.
8	1.4	0.015
12	2.8	0.033
18	5.8	0.074
24	9.9	0.13
30	14.9	0.20
36	21.0	0.30
42	28.1	0.40
48	36.3	0.52

CONSTRUCTION DETAILS

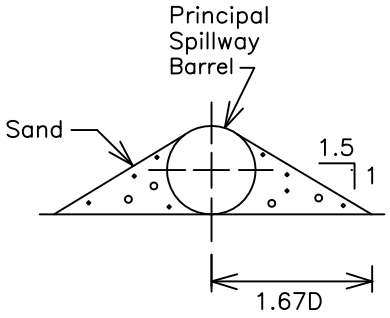
1. The Filter Diaphragm and the Sand Outlet shall be MDOT Fine Concrete Aggregate.
2. The Diaphragm shall be compacted by flooding with clean water for each 2 foot lift. Muddy water may seal the Diaphragm. The volume of water shall equal the volume of sand. After the water has drained below the surface, the Diaphragm shall be compacted with 3 passes of a manually directed plate vibrator.
3. The Sand Outlet must contact the gravel bedding of the Rock Apron.



FILTER DIAPHRAGM



X–SEC. A–A



X–SEC. B–B
SAND OUTLET

Not to scale
Standard design must be adapted to specific site

File Name	Drawing Name	rev. 2/2010	Sheet of
	ME–ENG–14F		

Date
Designed
Drawn Standard
Checked
Approved

NRCS
Natural Resources Conservation Service
United States Department of Agriculture