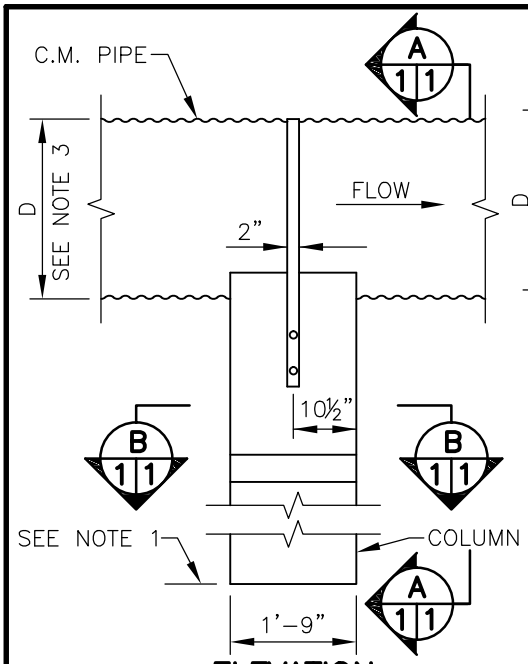
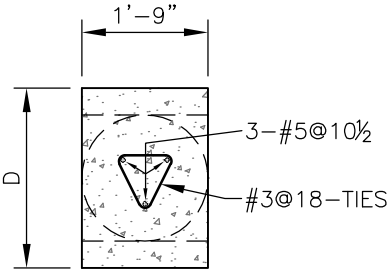
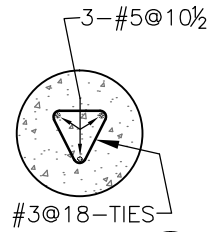


ELEVATION

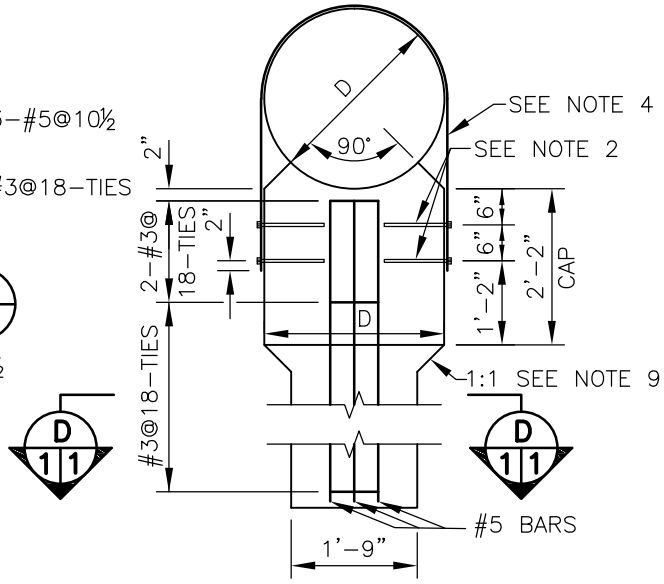
(D=21",24",30",36",42",OR 48" DIA. C.M. PIPE)



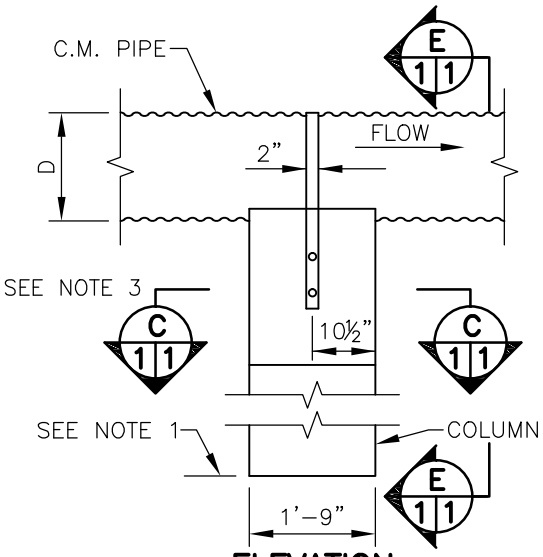
SECTION B 1 1



SECTION D 1 1

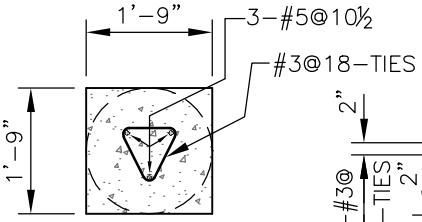


SECTION A 1 1

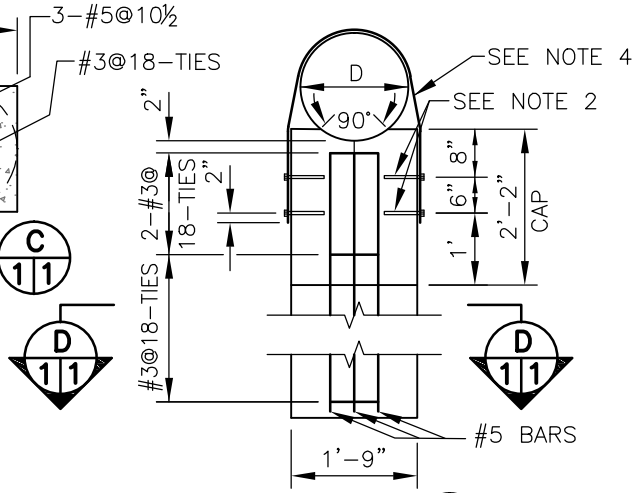


ELEVATION

(D=8",10",12",15",OR 18" DIA. C.M. PIPE)



SECTION C 1 1



SECTION E 1 1

QUANTITIES

DIA. C.M.P. (INS.)	LENGTH OF STEEL STRAP FT.-INS.	VOL. OF CONC. IN CAP CU. YDS.	VOL. OF CONC. IN COLUMN CU. YDS. PER LIN. FT.
8	4-1	0.24	0.09
10	4-6	0.24	0.09
12	4-11	0.24	0.09
15	5-7	0.24	0.09
18	6-3	0.24	0.09
21	6-10	0.26	0.09
24	7-8	0.29	0.09
30	8-9	0.36	0.09
36	10-0	0.43	0.09
42	11-4	0.48	0.09
48	12-8	0.54	0.09

NOTES

1. EXCAVATE HOLE AS NECESSARY TO REACH AN ADEQUATE SUPPORT MATERIAL. APPROXIMATE ELEVATION OF BOTTOM OF PIPE SUPPORT IS SHOWN ON CROSS SECTION OF DAM ALONG ℄ OF PRINCIPAL SPILLWAY. ACTUAL DEPTH TO BE DETERMINED BY THE ENGINEER.
2. 4 GALVANIZED 5/8" DIA. x 10" LONG BOLTS SET 8-1/2" IN CONCRETE AS SHOWN.
3. D = DIA. OF C.M. PIPE.
4. GALVANIZED STEEL STRAP 3/8" THICK x 2" WIDE.
5. EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 INCH OR ROUNDED.
6. BAR SPLICES SHALL BE STAGGERED WITH BARS LAPPED AT LEAST 30 DIAMETERS, BUT NOT LESS THAN 12 INCHES.
7. STEEL SHALL BE POSITIONED IN THE CENTER OF THE SECTION, UNLESS OTHERWISE SHOWN.
8. STRUCTURE SHALL BE INSTALLED IN ACCORDANCE WITH NATURAL RESOURCES CONSERVATION SERVICE ENGINEERING STANDARD & SPECIFICATIONS NO. COLO.-378 "POND".
9. USE 2:1 FOR D = 48".

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

DETAIL OF CONCRETE PIPE SUPPORT

(REVISED LAST ON 12-11)

		Date
Designed	CRH	4-69
Drawn	DDD	12-11
Checked		
Approved	J.E. ANDREWS S.C.E.	12-11

File Name

Drawing Name CO-SSP-22

Sheet 1 of 1